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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 4 (U)

James A. Block, Christopher Crowley, Francis X. Dolan, Richard G. Sam,
and Brant H. Stoedefalke

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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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Final Report

**NUCLEATE BOILING PRESSURE DROP
IN AN ANNULUS**

Volume 3

DATA PLOTS AND SUMMARY FILES

**Prepared by
James A. Block
Christopher J. Crowley
Francis X. Dolan
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**Prepared for
U.S. Department of Energy
and
Savannah River Laboratory
Subcontract AX-721102**

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Chapter 12

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS

Test Geometry: Ribbed (4)
Test Series: 15
Test Date: August 15, 1990

TOTAL PRESSURE DROP (psf)

□ SERIES 15, 08/15/90 — UNHEATED, 08/14/90

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Aug15_01	26.03	20.46
Aug15_02	19.98	10.35
Aug15_03	13.90	2.56
Aug15_04	7.94	-2.60
Aug15_05	6.99	-3.25
Aug15_06	6.10	-3.72
Aug15_07	5.00	-4.29
Aug15_08	4.47	-4.52
Aug15_09	4.06	-4.64
Aug15_12	3.73	-4.73
Aug15_10	3.59	-4.74
Aug15_11	3.49	-4.46

(c)

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F
Inlet pressure	40 psia
Wall heat flux	100 kBtu/hr-ft ²
Flux distribution	tilt
He saturation pressure	5 psig

NOTES:

(a) Inlet velocity calculated from PFM000001

(b) Pressure drop calculated from PAN000136

(c) Shading notes test at minimum pressure drop

DEMAND CURVE AND DATA FOR SERIES 15 - RIBBED ANNULUS

SERIES 15, AUG15_09
 RIBBED, TILT (4)
 $\Phi = 100,000 \text{ Btu/hr-ft}^2$
 $V_f = 4.06 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$
 $P = 40.32 \text{ psia}$
 $T = 87.53 \text{ }^\circ\text{F}$
 $L = 12.83 \text{ ft}$

RIBBED, TILT (4)
 $\Phi = 100,000 \text{ Btu/hr-ft}^2$
 $V_f = 4.06 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$
 $P = 40.32 \text{ psia}$
 $T = 87.53 \text{ }^\circ\text{F}$
 $L = 12.83 \text{ ft}$

Test: Aug15_01 suml Date: Wed Aug 15 09:59:40 1990 Page: 1

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	TRF0000001	75.7789	76.4181	76.0815	1.6158e-01	1.9000e+00
1	TRF0000002	76.3045	76.7283	76.4274	1.2176e-01	1.9000e+00
2	TFM0000001	87.4371	88.2771	87.8315	2.2792e-01	1.9002e+00
3	TINO000001	86.8930	87.6298	87.1918	1.6246e-01	1.9002e+00
4	TRV0000001	87.7009	88.6432	88.1990	2.2336e-01	1.9002e+00
5	TSR0000001	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	80.6543	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	114.4437	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

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#	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	TSI0000001	67.7134	68.4600	68.1148	1.7437e-01	1.9000e+00
54	TSI0000002	80.2944	85.1288	82.1799	1.2602e+00	1.9001e+00
55	TSO0000001	67.9373	68.6871	68.3658	1.9948e-01	1.9000e+00
56	TSO0000002	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PRV000001	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	-0.0131	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	4.3161e+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

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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

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#	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	TSI0000001	67.6078	68.4612	68.1432	1.8226e-01	1.9000e+00
54	TSI0000002	89.0040	92.8677	91.3633	1.2064e+00	1.9003e+00
55	TSO0000001	67.9368	68.7938	68.3247	2.0284e-01	1.9000e+00
56	TSO0000002	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

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#	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

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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	TRF0000001	75.9920	76.6311	76.3542	1.7874e-01	1.9000e+00
1	TRF0000002	76.5164	77.1519	76.7198	1.4801e-01	1.9000e+00
2	TFM0000001	85.5488	86.3901	85.9504	2.2839e-01	1.9002e+00
3	TIN0000001	84.9982	85.7356	85.3712	1.6382e-01	1.9002e+00
4	TRV0000001	85.8193	86.7636	86.2370	2.1444e-01	1.9002e+00
5	TSR0000001	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	TAFO50136	99.7898	100.6200	100.1902	1.7555e-01	1.9006e+00
32	TAFO70136	139.8575	149.2467	144.5249	2.2698e+00	1.9037e+00
33	TAFO80136	135.9097	137.7164	136.7868	3.3848e-01	1.9030e+00
34	TAFO90136	79.0608	80.2228	79.6632	2.5276e-01	1.9001e+00
35	TAFI00136	115.2126	116.2417	115.6795	2.1736e-01	1.9014e+00
36	TAFI05136	115.9758	117.0987	116.6065	2.7937e-01	1.9015e+00
37	TAFI10136	118.4090	119.1253	118.8936	1.5862e-01	1.9016e+00
38	TAFI115136	120.8591	121.6764	121.3512	2.1812e-01	1.9018e+00
39	TAFI120136	131.8424	132.9541	132.1489	2.0485e-01	1.9026e+00
40	TAFI125136	123.8261	124.8398	124.3950	2.5797e-01	1.9020e+00
41	TAFI130136	125.1996	125.8105	125.5065	1.6015e-01	1.9021e+00
42	TAFI120048	118.2924	119.2194	118.7598	2.1750e-01	1.9016e+00
43	TAFI130048	120.6520	121.3689	121.0555	1.5815e-01	1.9018e+00
44	TAFI120224	117.3323	118.0503	117.7772	1.8009e-01	1.9015e+00
45	TAFI130224	119.3842	119.8986	119.6127	1.4576e-01	1.9017e+00

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#	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	TAI100048	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	TSI0000001	67.8218	68.6738	68.2928	2.1335e-01	1.9000e+00
54	TSI0000002	89.1089	93.5992	91.2722	1.1583e+00	1.9003e+00
55	TSO0000001	67.9363	68.7938	68.3887	2.0677e-01	1.9000e+00
56	TSO0000002	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	PANO20136	8.9353	9.6220	9.3534	1.5737e-01	8.7031e-01
81	PANO50136	15.1493	16.3700	15.7444	2.5838e-01	1.6805e+00
82	PANO70136	13.8741	14.6370	14.2525	1.5099e-01	8.7073e-01
83	PANO80136	3.6681	4.1259	3.9184	1.2042e-01	8.7006e-01
84	PANO90136	3.2279	3.7620	3.5056	1.2015e-01	8.7004e-01
85	PANI00136	2.6866	3.0680	2.8697	9.6259e-02	8.7003e-01
86	PANI05136	1.3007	1.7585	1.5219	1.1142e-01	8.7001e-01
87	PANI10136	4.2219	4.7560	4.4798	1.1315e-01	8.7007e-01
88	PANI115136	5.5629	6.0970	5.8315	1.0594e-01	8.7012e-01
89	PANI120136	6.2217	6.6032	6.4445	8.1328e-02	8.7015e-01
90	PANI125136	2.6652	3.0467	2.8819	1.0607e-01	8.7003e-01
91	PANI130136	-1.1157	-0.7342	-0.9554	8.8800e-02	8.7000e-01
92	PANI120048	-0.1275	0.3303	0.1716	1.2219e-01	8.7000e-01
93	PANI130048	8.4160	9.1789	8.7914	1.4771e-01	8.7028e-01
94	PANI120224	7.6999	8.1577	7.9517	1.0817e-01	8.7023e-01
95	PANI130224	6.3311	6.7889	6.5905	1.2137e-01	8.7016e-01
96	PANI120312	1.2282	1.6860	1.4449	1.1259e-01	8.7001e-01
97	PANI130312	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

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#	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

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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

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#	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

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#	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	19.8821	6.8033e-02	7.5165e-01
103	PSR000001	42.3741	42.6183	42.4669	5.8152e-02	7.5748e-01
104	PFH000001	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	PFH000002	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

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Velocity 1 = 6.9865 (ft/sec) (+/- 3.7770 %)
 Velocity 2 = 6.9813 (ft/sec) (+/- 2.0702 %)
 Pressure drop = -3.2484 (psi)
 Tsat in = 267.7592 (deg F) Tsat 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	TRF0000001	76.6311	77.0570	76.8398	1.6931e-01	1.9000e+00
1	TRF0000002	76.9401	77.3636	77.1688	1.2720e-01	1.9000e+00
2	TFM0000001	87.4395	88.2790	87.8491	1.9576e-01	1.9002e+00
3	TIN0000001	86.8937	87.5253	87.1906	1.4213e-01	1.9002e+00
4	TRV0000001	87.6011	88.4392	88.1226	2.2115e-01	1.9002e+00
5	TSR0000001	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	TAT020000	145.8719	146.8779	146.4494	2.2801e-01	1.9039e+00
25	TAT070000	164.4750	165.2710	164.9104	1.6327e-01	1.9061e+00
26	TAT100000	176.5995	177.4816	177.1148	1.8763e-01	1.9077e+00
27	TAT120000	183.2285	183.9117	183.6133	1.6440e-01	1.9097e+00
28	TAT125000	83.8763	84.5058	84.1816	1.7403e-01	1.9001e+00
29	TAT130000	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

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#	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	TSI0000001	68.0369	68.7833	68.4783	1.6841e-01	1.9000e+00
54	TSI0000002	87.8588	92.6639	90.0886	1.0861e+00	1.9003e+00
55	TSO0000001	67.8286	68.6856	68.3276	1.9671e-01	1.9000e+00
56	TSO0000002	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	-6.4906	-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

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#	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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#	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	115.4025	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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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	TRP000001	76.8441	77.4827	77.1549	1.8353e-01	1.9000e+00
1	TRP000002	77.3636	77.7870	77.5076	1.2425e-01	1.9000e+00
2	TRM000001	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

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#	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

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#	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	PFH0000001	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	PFH0000002	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	IHT0000029	103.8349	105.9833	104.9560	5.9426e-01	4.2322e+00
157	IHT0000030	106.0096	108.3533	107.2401	6.0264e-01	4.2379e+00
158	IHT0000031	94.7641	96.9125	96.0180	5.6371e-01	4.2109e+00
159	IHT0000032	95.7933	98.1370	97.0784	5.8805e-01	4.2134e+00
160	IHT0000033	95.7782	98.1220	97.0244	5.8513e-01	4.2132e+00
161	IHT0000034	88.2474	90.3959	89.1967	5.1450e-01	4.1959e+00
162	IHT0000035	116.4025	118.3556	117.4337	5.0538e-01	4.2649e+00
163	IHT0000036	86.7525	88.7057	87.8892	4.4763e-01	4.1931e+00

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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	TRF000001	87.7572	88.4911	88.1430	1.8043e-01	1.9002e+00
3	TIM000001	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	TAP050136	128.3666	129.7856	128.9153	3.2756e-01	1.9023e+00
32	TAP070136	143.5694	145.1697	144.3539	3.2785e-01	1.9037e+00
33	TAP080136	206.9543	209.9096	208.2793	7.1399e-01	1.9128e+00
34	TAP090136	86.1203	87.2762	86.6500	2.6412e-01	1.9002e+00
35	TAP100136	171.0438	173.2142	171.9001	4.7190e-01	1.9070e+00
36	TAP105136	175.0086	177.2505	176.1823	4.9485e-01	1.9076e+00
37	TAP110136	179.4273	181.4738	180.5242	4.0085e-01	1.9082e+00
38	TAP115136	185.0779	186.3427	185.7432	3.4004e-01	1.9090e+00
39	TAP120136	210.2951	213.7296	211.7314	5.5768e-01	1.9135e+00
40	TAP125136	194.3119	195.7543	195.0424	3.0769e-01	1.9105e+00
41	TAP130136	197.6392	198.6038	198.1752	2.0374e-01	1.9110e+00
42	TAP120048	178.2793	179.7575	178.9767	3.4879e-01	1.9080e+00
43	TAP130048	185.8433	187.2064	186.4624	2.9159e-01	1.9091e+00
44	TAP120224	176.4906	177.4712	177.0241	2.5047e-01	1.9077e+00
45	TAP130224	181.5780	182.3638	181.9552	1.9571e-01	1.9084e+00

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#	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	TAP020136	101.4526	102.4977	101.8873	2.4277e-01	1.9007e+00
58	TAP120312	167.7848	169.2656	168.6344	3.4302e-01	1.9065e+00
59	TAP130312	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	1.7715e+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	VPW0000001	131.5655	132.1514	131.9561	1.3669e-01	1.1327e+00
113	VPW0000002	144.6440	145.0346	144.8706	1.2072e-01	1.1881e+00
114	VPW0000003	118.0439	118.4345	118.1884	1.1027e-01	1.0766e+00
115	VPW0000004	99.1849	99.5756	99.3647	1.1049e-01	1.0058e+00
116	VPW0000005	108.2783	108.6689	108.3955	1.1161e-01	1.0388e+00
117	VPW0000006	160.3178	160.7084	160.4663	1.1545e-01	1.2582e+00
118	IPW0000001	1065.6793	1071.5363	1068.4128	1.5777e+00	1.1698e+01
119	IPW0000002	801.2589	805.1614	803.8738	1.0135e+00	1.0293e+01
120	IPW0000003	659.1375	664.9875	661.5945	1.3539e+00	9.6399e+00
121	IPW0000004	532.8181	533.7946	533.5409	2.6543e-01	4.6654e+00
122	IPW0000005	591.2589	592.7236	592.0598	3.7895e-01	5.0869e+00
123	IPW0000006	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	IHT0000001	126.1869	128.5306	127.3745	5.5079e-01	4.2933e+00
129	IHT0000002	129.8640	132.0125	131.0164	4.8688e-01	4.3042e+00
130	IHT0000003	129.7964	131.9449	131.0308	5.1364e-01	4.3043e+00
131	IHT0000004	141.2072	143.3556	142.3673	5.3874e-01	4.3401e+00
132	IHT0000005	139.4719	141.2297	140.4093	5.1900e-01	4.3338e+00
133	IHT0000006	134.2511	136.0089	135.1612	4.7941e-01	4.3170e+00
134	IHT0000007	128.2790	130.0368	129.2868	5.0895e-01	4.2990e+00
135	IHT0000008	126.8630	129.0114	127.9723	5.2710e-01	4.2951e+00
136	IHT0000009	127.5315	129.4847	128.6878	4.8463e-01	4.2972e+00
137	IHT0000010	117.1049	119.8392	118.3861	5.2669e-01	4.2675e+00
138	IHT0000011	115.1743	117.7134	116.5727	5.1954e-01	4.2625e+00
139	IHT0000012	113.5930	115.9368	114.6515	5.0700e-01	4.2573e+00
140	IHT0000013	93.0552	95.2036	93.9224	4.5018e-01	4.2062e+00
141	IHT0000014	119.9181	121.6759	120.8009	4.4685e-01	4.2743e+00
142	IHT0000015	97.0102	98.7680	97.8735	4.6704e-01	4.2152e+00
143	IHT0000016	86.2192	87.7817	86.8911	4.2711e-01	4.1911e+00
144	IHT0000017	103.0048	105.3486	104.2002	5.4767e-01	4.2303e+00
145	IHT0000018	106.2275	108.5712	107.0947	5.3838e-01	4.2376e+00
146	IHT0000019	113.1761	115.7151	114.2933	5.6226e-01	4.2563e+00
147	IHT0000020	116.7818	119.3209	117.8833	5.2461e-01	4.2661e+00
148	IHT0000021	-3.0236	0.2967	-1.5509	6.5222e-01	4.1000e+00
149	IHT0000022	96.3980	98.7418	97.4370	4.8559e-01	4.2142e+00
150	IHT0000023	114.6409	116.5941	115.5082	4.6882e-01	4.2596e+00
151	IHT0000024	80.2772	82.4256	81.2811	4.6857e-01	4.1798e+00
152	IHT0000025	102.5428	104.4959	103.5038	4.1166e-01	4.2286e+00
153	IHT0000026	103.7109	106.0547	104.6836	4.6436e-01	4.2315e+00
154	IHT0000027	86.8502	89.1940	87.9244	4.9951e-01	4.1932e+00
155	IHT0000028	88.2287	90.5724	89.4904	5.2380e-01	4.1965e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	103.4443	105.7880	104.6045	5.1812e-01	4.2313e+00
157	IHT0000030	105.8143	107.7674	106.8651	5.0515e-01	4.2370e+00
158	IHT0000031	94.7641	97.1079	95.7329	5.2193e-01	4.2103e+00
159	IHT0000032	95.5980	97.9417	96.8128	5.5284e-01	4.2128e+00
160	IHT0000033	95.5829	97.9267	96.7588	5.4746e-01	4.2126e+00
161	IHT0000034	88.2474	90.2006	89.2436	4.5890e-01	4.1960e+00
162	IHT0000035	116.2072	118.1603	117.3283	4.7648e-01	4.2646e+00
163	IHT0000036	86.9479	88.9010	87.9361	4.6590e-01	4.1932e+00

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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

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#	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	PIN0000001	39.9587	40.2028	40.0735	7.1520e-02	7.5666e-01
102	PRV0000001	19.4744	19.5965	19.5819	4.0071e-02	7.5160e-01
103	PSR0000001	44.5714	44.6935	44.6569	5.6508e-02	7.5826e-01
104	PFM0000001	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	PFM0000002	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	VPW0000001	131.9561	132.3468	132.0850	1.2232e-01	1.1332e+00
113	VPW0000002	144.6440	145.0346	144.8510	9.1779e-02	1.1880e+00
114	VPW0000003	118.0439	118.4345	118.2041	1.2283e-01	1.0766e+00
115	VPW0000004	99.1849	99.5756	99.3764	1.0799e-01	1.0058e+00
116	VPW0000005	108.2783	108.6689	108.5634	1.0595e-01	1.0394e+00
117	VPW0000006	160.3178	160.7084	160.5483	9.4125e-02	1.2586e+00
118	IPW0000001	1075.4410	1085.2028	1080.5951	2.9716e+00	1.1768e+01
119	IPW0000002	773.9410	779.7949	776.3997	1.4109e+00	1.0160e+01
120	IPW0000003	627.9375	633.7875	629.8875	1.4740e+00	9.5064e+00
121	IPW0000004	534.7712	536.7243	535.3866	6.0658e-01	4.6786e+00
122	IPW0000005	586.8648	588.3295	587.7145	3.5303e-01	5.0554e+00
123	IPW0000006	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	IHT0000001	125.7963	128.9213	127.4760	6.1511e-01	4.2936e+00
129	IHT0000002	129.4734	132.2078	131.0672	5.7231e-01	4.3044e+00
130	IHT0000003	129.6011	132.5308	131.1441	5.8294e-01	4.3046e+00
131	IHT0000004	141.0119	144.3322	142.6564	6.1268e-01	4.3411e+00
132	IHT0000005	139.0813	142.0110	140.6828	5.9712e-01	4.3346e+00
133	IHT0000006	133.8604	136.7901	135.4424	5.9090e-01	4.3179e+00
134	IHT0000007	127.8884	130.8181	129.4118	6.1130e-01	4.2994e+00
135	IHT0000008	126.4723	129.4020	128.0543	5.7079e-01	4.2953e+00
136	IHT0000009	126.9456	130.2659	128.7191	6.4819e-01	4.2973e+00
137	IHT0000010	117.6908	119.6439	118.5384	4.9381e-01	4.2679e+00
138	IHT0000011	115.5649	117.7134	116.7407	4.7921e-01	4.2630e+00
139	IHT0000012	113.9836	115.9368	114.7726	5.0680e-01	4.2576e+00
140	IHT0000013	93.2505	95.2036	94.1450	4.6201e-01	4.2067e+00
141	IHT0000014	120.1134	122.0666	120.9220	4.7023e-01	4.2746e+00
142	IHT0000015	97.4008	98.9633	98.0649	3.7848e-01	4.2156e+00
143	IHT0000016	86.2192	87.7817	86.8716	3.8784e-01	4.1910e+00
144	IHT0000017	103.9814	107.3017	105.7900	9.0137e-01	4.2343e+00
145	IHT0000018	106.4228	108.7665	107.2158	5.3585e-01	4.2379e+00
146	IHT0000019	113.3714	115.7151	114.4378	4.9945e-01	4.2567e+00
147	IHT0000020	116.9771	119.1256	118.0044	4.7811e-01	4.2664e+00
148	IHT0000021	-2.4377	-0.0939	-1.2619	5.1371e-01	4.1000e+00
149	IHT0000022	96.7886	98.5464	97.7144	3.8421e-01	4.2148e+00
150	IHT0000023	114.6409	116.7894	115.6371	4.4337e-01	4.2600e+00
151	IHT0000024	80.4725	82.4256	81.4217	4.4645e-01	4.1801e+00
152	IHT0000025	102.7381	104.8866	103.7069	4.4810e-01	4.2291e+00
153	IHT0000026	103.7109	106.2500	104.9570	5.0051e-01	4.2322e+00
154	IHT0000027	86.8502	89.1940	88.1509	4.6790e-01	4.1937e+00
155	IHT0000028	88.2287	90.7677	89.5295	5.3322e-01	4.1966e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	103.6396	105.7880	104.7568	5.0229e-01	4.2317e+00
157	IHT0000030	105.8143	107.9627	107.0917	5.3410e-01	4.2376e+00
158	IHT0000031	94.9594	97.1079	96.0571	5.2924e-01	4.2110e+00
159	IHT0000032	95.9886	98.3323	97.1370	5.2592e-01	4.2135e+00
160	IHT0000033	95.7782	98.5126	97.0908	5.3385e-01	4.2134e+00
161	IHT0000034	88.0521	90.0053	89.1733	4.1161e-01	4.1959e+00
162	IHT0000035	116.5978	118.1603	117.3009	4.1760e-01	4.2645e+00
163	IHT0000036	87.1432	88.9010	87.8853	4.1946e-01	4.1931e+00

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Velocity 1 = 4.0567 (ft/sec) (+/- 10.3770 %)
 Velocity 2 = 4.0775 (ft/sec) (+/- 4.0134 %)
 Pressure drop = -4.6350 (psi)
 T_{sat} in = 268.0097 (deg F) T_{sat} 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	TRP0000001	77.6955	78.3337	77.9593	1.9008e-01	1.9000e+00
1	TRP0000002	78.2102	78.6333	78.3837	1.4613e-01	1.9000e+00
2	TFH0000001	87.7589	88.5981	88.2518	1.7889e-01	1.9002e+00
3	TIN0000001	87.1051	87.8423	87.5368	1.7173e-01	1.9002e+00
4	TRV0000001	88.0264	89.0740	88.5358	2.1459e-01	1.9002e+00
5	TSR0000001	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	3.7256e-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	TAP050136	137.9597	139.3333	138.6756	3.0727e-01	1.9032e+00
32	TAP070136	157.0963	158.5824	158.0022	3.7480e-01	1.9052e+00
33	TAP080136	227.8826	237.5364	231.8750	2.8744e+00	1.9176e+00
34	TAP090136	88.4298	89.6889	89.2290	2.9040e-01	1.9002e+00
35	TAP100136	191.2365	194.2512	192.0753	6.1443e-01	1.9100e+00
36	TAP105136	195.8029	198.7772	197.1106	7.9711e-01	1.9109e+00
37	TAP110136	201.2991	205.3279	202.7224	1.1042e+00	1.9118e+00
38	TAP115136	207.3774	209.7708	208.3228	5.1300e-01	1.9128e+00
39	TAP120136	244.2733	249.4954	246.9104	1.3544e+00	1.9210e+00
40	TAP125136	219.9504	223.0661	221.4331	7.3630e-01	1.9154e+00
41	TAP130136	223.1714	225.6363	224.1637	5.4292e-01	1.9159e+00
42	TAP120048	200.9823	204.1825	202.6449	3.3523e-01	1.9118e+00
43	TAP130048	209.7914	212.1854	210.6935	4.7887e-01	1.9133e+00
44	TAP120224	198.1709	200.7739	199.5849	5.5025e-01	1.9113e+00
45	TAP130224	204.7702	207.0880	205.8929	4.6830e-01	1.9124e+00

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#	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	TSI0000001	68.4687	69.3208	68.9311	1.8346e-01	1.9000e+00
54	TSI0000002	88.1795	91.4180	89.1797	7.5046e-01	1.9002e+00
55	TSO0000001	67.9329	68.7898	68.3505	1.8014e-01	1.9000e+00
56	TSO0000002	80.7187	81.6699	81.1433	2.3911e-01	1.9001e+00
57	TAP020136	104.1662	106.0418	105.0937	4.0778e-01	1.9008e+00
58	TAP120312	188.2644	190.2098	189.0761	4.6098e-01	1.9095e+00
59	TAP130312	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	1.1715e-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	2.184e-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

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#	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	0.7000e+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

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Velocity 1 - 3.5905 (ft/sec) (+/- 13.2575 %)
 Velocity 2 - 3.5419 (ft/sec) (+/- 5.1479 %)
 Pressure drop - -4.7448 (psi)
 Tsat in - 268.0124 (deg F) Tsat 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	TRF0000001	77.9082	78.5463	78.3039	1.8235e-01	1.9000e+00
1	TRF0000002	78.4218	78.8448	78.6967	1.4332e-01	1.9001e+00
2	TFH0000001	87.7605	88.5998	88.2468	2.1066e-01	1.9002e+00
3	TIN0000001	87.2109	87.8420	87.5225	1.3937e-01	1.9002e+00
4	TRV0000001	88.2383	88.9705	88.5360	1.7471e-01	1.9002e+00
5	TSR0000001	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	TAF130224	223.1242	225.2234	224.0441	3.7376e-01	1.9159e+00

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#	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	TSI0000001	68.4704	69.3231	68.8968	1.9844e-01	1.9000e+00
54	TSI0000002	86.9227	89.9567	87.8657	6.0196e-01	1.9002e+00
55	TSO0000001	67.8252	68.6817	68.3048	2.1993e-01	1.9000e+00
56	TSO0000002	81.1969	83.0415	82.4402	1.8596e-01	1.9001e+00
57	TAP020136	105.9774	108.9535	107.4738	4.9445e-01	1.9010e+00
58	TAP120312	204.3253	207.0171	205.6524	6.3557e-01	1.9124e+00
59	TAP130312	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	-4.8879	-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

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#	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

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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	TRF000003	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	154.8019	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

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#	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	TSO0000001	68.0386	68.7884	68.4433	1.8131e-01	1.9000e+00
56	TSO0000002	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PRV000001	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

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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)
 Tsat in = 267.6125 (deg F) Tsat 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	TRF000001	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	TAP050136	142.2803	144.4846	143.7372	4.8343e-01	1.9037e+00
32	TAP070136	164.9000	166.4748	165.6895	3.7015e-01	1.9062e+00
33	TAP080136	238.1070	241.4692	240.0895	7.2957e-01	1.9194e+00
34	TAP090136	91.6786	92.8292	92.2877	2.8941e-01	1.9003e+00
35	TAP100136	200.5520	206.8251	203.0190	1.5310e+00	1.9119e+00
36	TAP105136	206.0527	211.5698	208.1099	1.3459e+00	1.9128e+00
37	TAP110136	212.4068	217.3546	213.6237	9.0365e-01	1.9138e+00
38	TAP115136	218.7404	221.2122	220.0320	4.9699e-01	1.9151e+00
39	TAP120136	261.7411	264.3275	262.8703	5.5569e-01	1.9249e+00
40	TAP125136	231.8211	233.8822	232.8013	4.7879e-01	1.9178e+00
41	TAP130136	235.8318	237.5250	236.4848	4.1543e-01	1.9186e+00
42	TAP120048	211.5257	216.1470	213.4773	7.4955e-01	1.9138e+00
43	TAP130048	220.3891	222.0067	221.2820	4.0056e-01	1.9154e+00
44	TAP120224	209.1339	214.4887	210.9503	1.3829e+00	1.9133e+00
45	TAP130224	217.2847	219.0098	218.1912	3.7499e-01	1.9147e+00

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#	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0808	40.4470	40.2444	9.0982e-02	7.5672e-01
102	PRV000001	19.5965	19.8406	19.7137	3.4527e-02	7.5162e-01
103	PSR000001	44.5714	44.9376	44.7887	6.1852e-02	7.5831e-01
104	PPH000001	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	PPH000002	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	VPW000001	131.7608	132.3468	132.1319	1.2633e-01	1.1334e+00
113	VPW000002	144.6440	145.2299	144.9370	1.1334e-01	1.1884e+00
114	VPW000003	117.8485	118.4345	118.2119	1.5288e-01	1.0766e+00
115	VPW000004	99.1849	99.7709	99.4624	1.2534e-01	1.0061e+00
116	VPW000005	108.2783	108.8642	108.5673	1.1327e-01	1.0394e+00
117	VPW000006	160.5131	160.9037	160.7475	1.3087e-01	1.2595e+00
118	IPW000001	1057.8699	1063.7269	1061.1495	1.3912e+00	1.1657e+01
119	IPW000002	799.3076	805.1614	801.7274	1.4517e+00	1.0282e+01
120	IPW000003	661.0875	666.9375	664.4807	1.1010e+00	9.6523e+00
121	IPW000004	527.9352	529.4001	528.5897	3.0581e-01	4.6301e+00
122	IPW000005	590.2824	591.7471	590.7710	3.4169e-01	5.0776e+00
123	IPW000006	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	IHT000001	125.9916	129.1166	127.4799	6.5541e-01	4.2936e+00
129	IHT000002	129.6687	132.4031	131.1024	6.0310e-01	4.3045e+00
130	IHT000003	129.9917	132.7261	131.2066	5.8299e-01	4.3048e+00
131	IHT000004	141.4025	144.3322	142.6564	5.9724e-01	4.3411e+00
132	IHT000005	139.6672	142.4016	140.7492	5.9085e-01	4.3349e+00
133	IHT000006	134.2511	137.1807	135.4112	5.7914e-01	4.3178e+00
134	IHT000007	128.4743	131.2087	129.5055	5.8132e-01	4.2997e+00
135	IHT000008	127.2536	129.5973	128.1403	5.4706e-01	4.2956e+00
136	IHT000009	127.7268	130.2659	128.7738	6.1354e-01	4.2975e+00
137	IHT000010	117.6908	120.4252	118.5697	5.7757e-01	4.2680e+00
138	IHT000011	115.7602	118.4946	116.6899	5.4471e-01	4.2628e+00
139	IHT000012	113.7883	116.3274	114.7140	5.3205e-01	4.2575e+00
140	IHT000013	92.8598	95.5942	93.9184	5.2806e-01	4.2062e+00
141	IHT000014	120.1134	122.4572	120.9025	4.7180e-01	4.2745e+00
142	IHT000015	96.8149	99.5493	97.8149	5.0937e-01	4.2151e+00
143	IHT000016	85.6333	88.5630	86.8208	5.4796e-01	4.1909e+00
144	IHT000017	104.3720	107.4970	106.2666	6.8487e-01	4.2355e+00
145	IHT000018	105.8369	109.1572	107.3447	7.1794e-01	4.2382e+00
146	IHT000019	113.7620	115.3245	114.5628	4.3090e-01	4.2570e+00
147	IHT000020	116.9771	118.7350	117.9380	4.3196e-01	4.2663e+00
148	IHT000021	-2.2424	-0.0939	-1.2502	5.1575e-01	4.1000e+00
149	IHT000022	96.7886	98.5464	97.5308	4.1007e-01	4.2144e+00
150	IHT000023	114.6409	116.5941	115.5355	4.5863e-01	4.2597e+00
151	IHT000024	80.4725	82.6209	81.2889	4.6302e-01	4.1798e+00
152	IHT000025	102.7381	104.8866	103.7108	4.7102e-01	4.2291e+00
153	IHT000026	103.7109	106.2500	104.8789	5.2717e-01	4.2320e+00
154	IHT000027	87.0455	89.5846	88.0494	4.5165e-01	4.1935e+00
155	IHT000028	88.6193	91.1584	89.5685	5.4392e-01	4.1967e+00

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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

DEFECTIVE INSTRUMENTS FOR THE RIBBED GEOMETRY TEST SERIES

Series	Tests	Defective Instruments
15	Aug15_01 to Aug15_12	TAO120048 TAF070136 TRT125000 TAO020136 TAF080136 TRR130000 TAO070136 TAF090136 TAO125136 TAF120136 IHT000021 IHT000024 IHT000033

Chapter 13

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS

Test Geometry: Ribbed (4)
Test Series: 16
Test Date: August 15, 1990

TOTAL PRESSURE DROP (psf)

ANNULUS INLET FLOW VELOCITY (ft/s)

□ SERIES 16, 08/15/90 — UNHEATED, 08/14/90

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psf)
Aug15_13	13.99	2.18
Aug15_14	12.09	0.35
Aug15_15	10.01	-1.27
Aug15_16	7.92	-2.49
Aug15_21	7.50	-2.61
Aug15_22	7.31	-2.67
Aug15_23	7.19	-2.70
Aug15_24	7.05	-2.74
Aug15_25	6.82	-2.45

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F
Inlet pressure	40 psia
Wall heat flux	200 kBtu/hr-ft ²
Flux distribution	tilt
He saturation pressure	5 psig

NOTES:

- (a) Inlet velocity calculated from PFM000001
- (b) Pressure drop calculated from PAN000136
- (c) Shading notes test at minimum pressure drop
- (d) Tests Aug15_17 to Aug15_20 deleted due to erroneous data

DEMAND CURVE AND DATA FOR SERIES 16 - RIBBED ANNULUS

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Velocity 1 - 13.9924 (ft/sec) (+/- 1.8678 %)
 Velocity 2 - 13.4157 (ft/sec) (+/- 1.7033 %)
 Pressure drop - 2.1832 (psi)
 Tsat in - 267.5391 (deg F) Tsat 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	TRP000001	81.7317	82.5798	82.0922	1.9746e-01	1.9001e+00
1	TRP000002	82.2238	82.8563	82.5063	1.4514e-01	1.9001e+00
2	TRP000001	87.4600	88.2995	87.8589	1.8111e-01	1.9002e+00
3	TRP000001	86.9000	87.4260	87.1357	1.0760e-01	1.9002e+00
4	TRP000001	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	TAO130048	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	1.7566e-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

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#	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	TR130000	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	TAP020136	95.8797	98.0821	96.9668	4.9731e-01	1.9005e+00
58	TAP120312	142.7984	144.5081	143.5913	3.7864e-01	1.9036e+00
59	TAP130312	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

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#	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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#	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

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#	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	IHT0000001	178.1400	181.4603	179.5307	6.5867e-01	4.4758e+00
129	IHT0000002	182.9890	186.1140	184.5009	6.4333e-01	4.4960e+00
130	IHT0000003	184.2886	187.0230	185.5269	6.0181e-01	4.5002e+00
131	IHT0000004	200.1915	202.7306	201.2696	6.3041e-01	4.5674e+00
132	IHT0000005	197.4797	200.0188	198.6124	6.1889e-01	4.5557e+00
133	IHT0000006	191.6729	193.8214	192.7588	6.0381e-01	4.5305e+00
134	IHT0000007	181.4040	183.7477	182.6188	5.8831e-01	4.4883e+00
135	IHT0000008	179.5973	181.7458	180.8278	5.4283e-01	4.4811e+00
136	IHT0000009	180.6565	183.1956	181.7347	5.5557e-01	4.4847e+00
137	IHT0000010	166.5189	169.4486	167.9331	6.7377e-01	4.4306e+00
138	IHT0000011	163.6118	166.9321	165.2251	6.5294e-01	4.4204e+00
139	IHT0000012	160.6633	164.1790	162.3898	7.1394e-01	4.4099e+00
140	IHT0000013	132.5083	135.6333	134.1255	6.6268e-01	4.3138e+00
141	IHT0000014	169.9181	173.2384	171.5157	7.0110e-01	4.4443e+00
142	IHT0000015	137.2446	140.3696	138.8462	6.5791e-01	4.3287e+00
143	IHT0000016	120.9848	124.1098	122.5278	6.4386e-01	4.2792e+00
144	IHT0000017	147.9267	151.8329	149.5986	7.3943e-01	4.3644e+00
145	IHT0000018	149.5869	153.1025	151.2510	7.7849e-01	4.3701e+00
146	IHT0000019	160.8323	163.3714	161.9418	5.9639e-01	4.4082e+00
147	IHT0000020	166.1959	168.5396	167.1490	5.8745e-01	4.4276e+00
148	IHT0000021	-2.6330	0.2967	-1.1603	6.8710e-01	4.1000e+00
149	IHT0000022	137.0230	139.3667	138.1128	5.0700e-01	4.3264e+00
150	IHT0000023	162.6878	164.8363	163.7426	4.8327e-01	4.4149e+00
151	IHT0000024	127.9334	129.8866	128.8983	4.3479e-01	4.2978e+00
152	IHT0000025	145.5116	147.8553	146.5702	4.8663e-01	4.3541e+00
153	IHT0000026	147.2656	149.8047	148.4961	5.2977e-01	4.3606e+00
154	IHT0000027	123.1783	125.5221	124.3892	5.6909e-01	4.2845e+00
155	IHT0000028	125.1427	127.8771	126.3966	5.6647e-01	4.2904e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	146.9989	149.5380	148.0146	5.6497e-01	4.3590e+00
157	IHT0000030	149.5643	152.4940	150.7636	6.1004e-01	4.3684e+00
158	IHT0000031	133.8266	136.7563	135.1001	5.6805e-01	4.3169e+00
159	IHT0000032	135.8323	138.7620	136.9183	5.8148e-01	4.3226e+00
160	IHT0000033	135.8173	138.7470	136.8759	5.7058e-01	4.3224e+00
161	IHT0000034	125.1615	127.1146	126.0952	4.1999e-01	4.2895e+00
162	IHT0000035	165.4259	167.3790	166.1446	4.3484e-01	4.4238e+00
163	IHT0000036	123.6666	125.6197	124.4673	3.8913e-01	4.2848e+00

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.3249	39.8171	3.9641e-01	7.5658e-01
102	PRV000001	19.7186	19.9627	19.8480	4.5541e-02	7.5164e-01
103	PSR000001	40.4210	40.6652	40.5236	6.6906e-02	7.5681e-01
104	PFM000001	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	PFM000002	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	VPW000001	187.2296	187.4249	187.2803	8.6541e-02	1.3852e+00
113	VPW000002	204.9955	205.3861	205.1674	9.3710e-02	1.4736e+00
114	VPW000003	167.4579	168.0439	167.6962	1.4916e-01	1.2917e+00
115	VPW000004	140.5912	140.9818	140.7553	1.2701e-01	1.1702e+00
116	VPW000005	153.3954	153.7861	153.5908	1.1161e-01	1.2269e+00
117	VPW000006	227.7006	228.2865	227.9193	1.0168e-01	1.5894e+00
118	IPW000001	1497.1472	1501.0519	1498.8265	1.3669e+00	1.4346e+01
119	IPW000002	1107.6082	1115.4132	1112.0961	1.5891e+00	1.1950e+01
120	IPW000003	908.7375	914.5875	912.3251	1.4929e+00	1.0842e+01
121	IPW000004	749.6149	751.0798	750.3474	3.7239e-01	6.2560e+00
122	IPW000005	827.5634	829.0281	828.4125	3.5304e-01	6.8432e+00
123	IPW000006	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	IHT000001	178.1400	180.6791	179.1869	6.0459e-01	4.4745e+00
129	IHT000002	183.1844	185.5281	184.1298	5.7907e-01	4.4945e+00
130	IHT000003	184.0933	186.4370	185.2808	5.6475e-01	4.4992e+00
131	IHT000004	199.9962	202.1447	201.0313	5.6393e-01	4.5663e+00
132	IHT000005	197.2844	199.6282	198.3858	5.2905e-01	4.5547e+00
133	IHT000006	191.8682	193.8214	192.6494	5.2645e-01	4.5301e+00
134	IHT000007	181.4040	183.7477	182.4977	5.5524e-01	4.4878e+00
135	IHT000008	179.5973	182.3317	180.7496	5.8958e-01	4.4807e+00
136	IHT000009	180.2659	183.0003	181.6019	6.0019e-01	4.4842e+00
137	IHT000010	167.1049	169.0580	167.9096	4.6461e-01	4.4305e+00
138	IHT000011	164.3931	166.1509	165.1196	4.1204e-01	4.4200e+00
139	IHT000012	161.4446	163.2024	162.2140	4.3299e-01	4.4092e+00
140	IHT000013	133.2895	134.8520	133.9888	4.2332e-01	4.3134e+00
141	IHT000014	170.5041	172.2619	171.3556	4.6981e-01	4.4437e+00
142	IHT000015	137.8305	139.5883	138.7016	4.1985e-01	4.3283e+00
143	IHT000016	121.3755	123.3286	122.4341	4.5006e-01	4.2789e+00
144	IHT000017	147.9267	150.6611	149.1142	6.5297e-01	4.3627e+00
145	IHT000018	150.1728	153.1025	151.2822	6.4409e-01	4.3702e+00
146	IHT000019	160.6370	162.7855	161.8519	4.9172e-01	4.4079e+00
147	IHT000020	165.6100	167.9537	166.8794	4.9166e-01	4.4266e+00
148	IHT000021	-2.6330	-0.0939	-1.2736	5.9577e-01	4.1000e+00
149	IHT000022	136.8277	138.5855	137.7691	4.4238e-01	4.3253e+00
150	IHT000023	162.4925	164.6409	163.5199	4.9883e-01	4.4141e+00
151	IHT000024	127.7381	129.8866	128.6835	4.9499e-01	4.2972e+00
152	IHT000025	145.1209	147.4647	146.5155	4.8329e-01	4.3539e+00
153	IHT000026	147.0703	149.4141	148.5156	4.7351e-01	4.3607e+00
154	IHT000027	123.3737	125.3268	124.3619	4.4888e-01	4.2845e+00
155	IHT000028	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

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#	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	9.3659e-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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#	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

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#	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	PFH000001	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	PFH000002	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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#	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.6911	39.8928	4.8903e-01	7.5660e-01
102	PRV000001	19.7186	19.8406	19.8358	2.4164e-02	7.5164e-01
103	PSR000001	42.3741	42.7404	42.5255	8.7402e-02	7.5750e-01
104	PFH000001	7.8605	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	PFH000002	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	VPW000001	187.2296	187.8155	187.5264	1.2627e-01	1.3864e+00
113	VPW000002	205.3861	205.7768	205.5658	1.4139e-01	1.4756e+00
114	VPW000003	167.4579	168.0439	167.7666	1.3141e-01	1.2920e+00
115	VPW000004	140.7865	141.1771	140.9585	1.2251e-01	1.1711e+00
116	VPW000005	153.5907	153.9814	153.7627	1.0168e-01	1.2277e+00
117	VPW000006	228.0912	228.4818	228.3177	1.1409e-01	1.5915e+00
118	IPW000001	1518.6230	1522.5277	1520.0680	1.1023e+00	1.4485e+01
119	IPW000002	1088.0955	1093.9492	1090.3977	1.5109e+00	1.1824e+01
120	IPW000003	889.2375	895.0875	893.0592	1.5238e+00	1.0742e+01
121	IPW000004	752.5446	754.4977	753.3747	3.8523e-01	6.2787e+00
122	IPW000005	823.1693	825.1222	824.2336	3.9072e-01	6.8117e+00
123	IPW000006	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	IHT000001	177.9447	180.0931	179.0776	5.6221e-01	4.4740e+00
129	IHT000002	182.9890	184.9422	183.9774	5.4163e-01	4.4939e+00
130	IHT000003	183.8980	186.2417	185.1011	5.6132e-01	4.4985e+00
131	IHT000004	199.6056	201.7540	200.6876	5.4990e-01	4.5648e+00
132	IHT000005	196.8938	199.2375	198.1866	5.5508e-01	4.5539e+00
133	IHT000006	191.2823	193.4307	192.5166	5.1816e-01	4.5295e+00
134	IHT000007	181.2087	183.5524	182.5915	5.3502e-01	4.4882e+00
135	IHT000008	179.5973	181.9411	180.9137	5.4649e-01	4.4814e+00
136	IHT000009	180.4612	182.6097	181.6097	5.1394e-01	4.4842e+00
137	IHT000010	166.7142	169.0580	167.7807	5.3118e-01	4.4300e+00
138	IHT000011	163.8071	166.1509	164.9165	5.2710e-01	4.4192e+00
139	IHT000012	160.8586	163.3977	162.1007	5.4069e-01	4.4088e+00
140	IHT000013	132.7036	135.0473	133.8286	5.0310e-01	4.3129e+00
141	IHT000014	169.9181	172.4572	171.2032	5.3392e-01	4.4431e+00
142	IHT000015	137.2446	139.5883	138.5298	5.3828e-01	4.3277e+00
143	IHT000016	121.1801	123.3286	122.3403	5.0749e-01	4.2786e+00
144	IHT000017	147.1454	151.0517	149.2080	6.8591e-01	4.3631e+00
145	IHT000018	149.3915	152.5165	151.1025	6.5621e-01	4.3696e+00
146	IHT000019	160.6370	163.1761	161.8168	6.2634e-01	4.4078e+00
147	IHT000020	165.2193	167.5631	166.3951	6.0937e-01	4.4248e+00
148	IHT000021	-2.8283	0.2967	-1.5119	6.9341e-01	4.1000e+00
149	IHT000022	136.0464	138.3902	137.1480	5.2313e-01	4.3233e+00
150	IHT000023	161.9066	164.0550	162.9301	5.5602e-01	4.4119e+00
151	IHT000024	126.9569	129.3006	128.0819	5.4471e-01	4.2954e+00
152	IHT000025	145.1209	147.4647	146.3007	5.7040e-01	4.3532e+00
153	IHT000026	147.0703	149.4141	148.1133	5.8873e-01	4.3593e+00
154	IHT000027	122.9830	125.3268	124.0025	5.1037e-01	4.2834e+00
155	IHT000028	124.7521	127.2912	125.0997	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2263	40.6911	40.0954	3.9431e-01	7.5667e-01
102	PRV000001	19.5965	19.7186	19.7161	1.7263e-02	7.5162e-01
103	PSR000001	42.3741	42.6183	42.5133	5.5201e-02	7.5749e-01
104	PFH000001	7.5918	8.0496	7.8243	9.9966e-02	5.0038e-01
105	PAM000136	-87.3885	-62.2115	-74.7450	7.9303e+00	4.9235e+00
106	PFH000002	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	-5.8594	-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	VPW000001	187.2296	187.8155	187.6084	9.9902e-02	1.3868e+00
113	VPW000002	205.3861	205.7768	205.6127	1.2072e-01	1.4758e+00
114	VPW000003	167.6532	168.2392	167.9345	1.3182e-01	1.2928e+00
115	VPW000004	140.7865	141.1771	141.0210	1.2478e-01	1.1713e+00
116	VPW000005	153.3954	153.9814	153.8095	1.2251e-01	1.2279e+00
117	VPW000006	228.2865	228.6771	228.4622	1.2633e-01	1.5922e+00
118	IPW000001	1489.3379	1497.1472	1493.8281	1.6850e+00	1.4314e+01
119	IPW000002	1109.5594	1113.4619	1111.0812	1.1350e+00	1.1944e+01
120	IPW000003	914.5875	920.4375	917.6689	1.3698e+00	1.0870e+01
121	IPW000004	748.6384	749.6149	749.1364	3.0389e-01	6.2470e+00
122	IPW000005	827.0751	828.5398	827.5824	3.2654e-01	6.8370e+00
123	IPW000006	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	IHT000001	177.5541	180.2885	179.1635	5.8867e-01	4.4744e+00
129	IHT000002	182.4031	185.1375	184.0048	5.8527e-01	4.4940e+00
130	IHT000003	183.7027	186.4370	185.2300	6.1471e-01	4.4990e+00
131	IHT000004	199.2150	202.3400	200.7930	6.2991e-01	4.5653e+00
132	IHT000005	196.6985	199.8235	198.2882	6.0233e-01	4.5543e+00
133	IHT000006	191.0870	193.8214	192.5557	5.9220e-01	4.5297e+00
134	IHT000007	181.0134	183.7477	182.6305	6.3016e-01	4.4884e+00
135	IHT000008	179.5973	182.3317	180.9059	6.2795e-01	4.4814e+00
136	IHT000009	180.2659	182.8050	181.6019	6.2060e-01	4.4842e+00
137	IHT000010	166.9095	169.2533	168.0307	5.9818e-01	4.4310e+00
138	IHT000011	163.8071	166.3462	165.1587	5.7837e-01	4.4202e+00
139	IHT000012	161.2493	163.3977	162.2413	6.0726e-01	4.4093e+00
140	IHT000013	133.0942	135.0473	134.0005	5.7826e-01	4.3134e+00
141	IHT000014	170.3087	172.8478	171.4063	6.0088e-01	4.4439e+00
142	IHT000015	137.4399	139.9790	138.6509	5.7182e-01	4.3281e+00
143	IHT000016	121.1801	123.7192	122.4341	5.0853e-01	4.2789e+00
144	IHT000017	148.9033	151.0517	149.9267	5.0155e-01	4.3655e+00
145	IHT000018	149.9775	152.7119	151.2744	6.2858e-01	4.3702e+00
146	IHT000019	160.6370	163.3714	162.0043	6.4958e-01	4.4085e+00
147	IHT000020	165.6100	168.3443	166.6490	6.2818e-01	4.4257e+00
148	IHT000021	-2.8283	0.2967	-1.2736	7.6408e-01	4.1000e+00
149	IHT000022	136.2417	138.5855	137.3316	5.3972e-01	4.3239e+00
150	IHT000023	161.9066	164.6409	163.1879	6.0767e-01	4.4128e+00
151	IHT000024	127.1522	129.4959	128.2850	5.7993e-01	4.2960e+00
152	IHT000025	145.3163	148.0506	146.4921	6.3072e-01	4.3538e+00
153	IHT000026	147.0703	150.0000	148.3008	6.7687e-01	4.3600e+00
154	IHT000027	122.7877	125.5221	124.0415	6.3022e-01	4.2835e+00
155	IHT000028	125.1427	127.8771	126.2560	7.1817e-01	4.2900e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	146.8036	149.7333	147.9795	7.1408e-01	4.3509e+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	123.0887	125.4244	124.3150	5.4596e-01	4.2843e+00

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#	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	PPH000001	7.3172	7.6834	7.5149	1.0022e-01	5.0035e-01
105	PAM000136	-89.2195	-64.0425	-75.8620	6.9280e+00	4.9237e+00
106	PPH000002	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

Test: Aug15_25 suml Date: Wed Aug 15 18:14:11 1990 Page: 3

#	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	5.9079e-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

Test: Aug15_26 suml Date: Wed Aug 15 18:29:24 1990 Page: 3

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.4704	40.8132	40.2224	3.7512e-01	7.5671e-01
102	PRV0000001	19.5965	19.7186	19.7161	1.7263e-02	7.5162e-01
103	PSR0000001	42.4962	42.7404	42.6134	4.9077e-02	7.5753e-01
104	PFM0000001	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	PFM0000002	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	VPW0000001	187.4249	187.8155	187.6240	8.3612e-02	1.3869e+00
113	VPW0000002	205.3861	205.7768	205.5072	1.1765e-01	1.4753e+00
114	VPW0000003	167.4579	168.0439	167.9345	1.2577e-01	1.2928e+00
115	VPW0000004	140.7865	141.1771	140.9233	1.2001e-01	1.1709e+00
116	VPW0000005	153.5907	153.9814	153.8252	1.1161e-01	1.2280e+00
117	VPW0000006	228.0912	228.8725	228.4466	1.3491e-01	1.5921e+00
118	IPW0000001	1504.9567	1510.8136	1508.4703	1.5777e+00	1.4409e+01
119	IPW0000002	1105.6569	1113.4619	1109.9105	1.4586e+00	1.1937e+01
120	IPW0000003	904.8375	912.6375	909.7513	2.2713e+00	1.0829e+01
121	IPW0000004	750.5915	753.5212	752.2516	6.6906e-01	6.2703e+00
122	IPW0000005	829.5163	832.4457	831.6057	6.5459e-01	6.8674e+00
123	IPW0000006	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	IHT0000001	177.5541	180.6791	178.8549	6.4430e-01	4.4731e+00
129	IHT0000002	182.4031	185.3328	183.7352	5.8884e-01	4.4929e+00
130	IHT0000003	183.5074	186.2417	184.7847	5.9609e-01	4.4972e+00
131	IHT0000004	199.2150	201.9494	200.5235	5.8026e-01	4.5641e+00
132	IHT0000005	196.6985	199.2375	197.9796	5.0864e-01	4.5530e+00
133	IHT0000006	191.0870	193.6261	192.3213	4.6928e-01	4.5287e+00
134	IHT0000007	181.2087	183.5524	182.3180	4.6928e-01	4.4871e+00
135	IHT0000008	179.4020	182.1364	180.6950	4.8950e-01	4.4805e+00
136	IHT0000009	180.4612	183.1956	181.4105	5.2350e-01	4.4834e+00
137	IHT0000010	166.9095	169.4486	167.7026	5.6965e-01	4.4297e+00
138	IHT0000011	164.1977	166.5415	164.8931	5.5686e-01	4.4192e+00
139	IHT0000012	161.2493	163.7883	162.0773	5.8734e-01	4.4087e+00
140	IHT0000013	133.0942	135.6333	133.8364	5.4391e-01	4.3129e+00
141	IHT0000014	170.1134	172.8478	171.2188	5.7806e-01	4.4432e+00
142	IHT0000015	137.4399	139.7837	138.5845	5.5103e-01	4.3279e+00
143	IHT0000016	121.1801	123.7192	122.2895	5.2116e-01	4.2785e+00
144	IHT0000017	148.3173	151.6376	149.8603	6.0393e-01	4.3653e+00
145	IHT0000018	150.1728	152.5165	151.3056	5.8261e-01	4.3703e+00
146	IHT0000019	160.2464	162.7855	161.7230	5.5124e-01	4.4074e+00
147	IHT0000020	165.0240	167.5631	166.5044	5.6371e-01	4.4252e+00
148	IHT0000021	-2.8283	-0.2892	-1.3791	6.5088e-01	4.1000e+00
149	IHT0000022	136.0464	138.1949	137.3159	4.9795e-01	4.3238e+00
150	IHT0000023	161.9066	163.8597	162.9731	5.1329e-01	4.4120e+00
151	IHT0000024	126.9569	128.7147	128.0428	4.7542e-01	4.2953e+00
152	IHT0000025	144.9256	147.4647	146.3280	5.4916e-01	4.3533e+00
153	IHT0000026	146.8750	148.8281	148.0117	4.6637e-01	4.3590e+00
154	IHT0000027	122.7877	124.9362	123.8306	4.7615e-01	4.2829e+00
155	IHT0000028	124.9474	127.4865	126.2365	6.2015e-01	4.2899e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	146.6083	148.7568	147.9560	5.9615e-01	4.3588e+00
157	IHT0000030	149.7596	151.9080	150.7636	6.3136e-01	4.3684e+00
158	IHT0000031	133.8266	136.1704	135.0298	6.1048e-01	4.3166e+00
159	IHT0000032	135.8323	138.1761	136.8597	6.1613e-01	4.3224e+00
160	IHT0000033	135.8173	137.9657	136.8134	5.9353e-01	4.3222e+00
161	IHT0000034	124.9662	126.9193	125.8842	5.0107e-01	4.2889e+00
162	IHT0000035	164.8400	166.7931	165.8282	5.2409e-01	4.4227e+00
163	IHT0000036	123.2760	125.2291	124.2642	5.2111e-01	4.2842e+00

DEFECTIVE INSTRUMENTS FOR THE RIBBED GEOMETRY TEST SERIES

Series	Tests	Defective Instruments
16	Aug15_13 to Aug15_26	TAO120048 TAF070136 TRT125000 TAO020136 TAF080136 TRR130000 TAO070136 TAF090136 TAO080136 TAF120136 TAO125136 IHT000021 IHT000024 IHT000033

Chapter 14

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS

Test Geometry: Ribbed (4)
Test Series: 5
Test Date: August 16, 1990

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Aug16_01	26.00	19.20
Aug16_02	14.02	2.29
Aug16_03	6.05	-3.79
Aug16_04	4.03	-4.65
Aug16_07	3.56	-4.76
Aug16_08	3.41	-4.79
Aug16_05	3.34	-4.70

(c)

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F
Inlet pressure	40 psia
Wall heat flux	100 kBtu/hr-ft ²
Flux distribution	uniform
He saturation pressure	5 psig

NOTES:

- (a) Inlet velocity calculated from PFM000001
- (b) Pressure drop calculated from PAN000136
- (c) Shading notes test at minimum pressure drop

DEMAND CURVE AND DATA FOR SERIES 5 - RIBBED ANNULUS

SERIES 5, AUG16_06

RIBBED (4)

$\phi = 101,000 \text{ Btu/hr-ft}^2$

$V_f = 3.41 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.25 \text{ psia}$

$T = 87.18 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

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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)
 Tsat in = 267.9272 (deg F) Tsat 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	TRF000001	82.9758	83.8232	83.4123	2.0260e-01	1.9001e+00
1	TRF000002	83.3145	83.9467	83.6011	1.2600e-01	1.9001e+00
2	TFM000001	87.3351	88.0694	87.6433	1.7410e-01	1.9002e+00
3	TIN000001	86.5766	87.1029	86.9027	1.2638e-01	1.9002e+00
4	TRV000001	87.3323	88.1706	87.7622	2.1504e-01	1.9002e+00
5	TSR000001	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	1.9005e+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

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#	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	TAP020136	88.5588	89.2972	88.9745	1.5575e-01	1.9002e+00
58	TAP120312	104.6079	105.6448	105.1078	3.3028e-01	1.9008e+00
59	TAP130312	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	2.6112e-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	PAN090136	50.2074	51.1229	50.5904	1.9829e-01	8.7915e-01
84	PAN100136	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

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#	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	5.9269e-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

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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	TFH000001	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

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#	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	TAP020136	90.8802	91.6170	91.2592	1.7283e-01	1.9003e+00
58	TAP120312	120.2629	121.3895	120.9430	2.8184e-01	1.9017e+00
59	TAP130312	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.9587	40.2028	40.1174	8.2719e-02	7.5668e-01
102	PRV0000001	19.8406	19.9627	19.9505	3.6993e-02	7.5166e-01
103	PSR0000001	37.0031	37.3693	37.1129	8.2719e-02	7.5572e-01
104	PFH0000001	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	PFH0000002	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	VPW0000001	101.6339	102.2198	101.9307	1.1995e-01	1.0150e+00
113	VPW0000002	118.2655	119.0467	118.7382	1.3141e-01	1.0787e+00
114	VPW0000003	146.6459	147.0365	146.7905	1.0297e-01	1.1966e+00
115	VPW0000004	104.2781	105.0593	104.7938	1.2944e-01	1.0254e+00
116	VPW0000005	139.2616	139.6522	139.4022	1.0470e-01	1.1643e+00
117	VPW0000006	147.2844	147.8703	147.4757	1.4493e-01	1.1996e+00
118	IPW0000001	547.4072	555.2165	550.6480	1.4006e+00	9.1942e+00
119	IPW0000002	1314.0299	1319.8837	1316.4884	1.1017e+00	1.3182e+01
120	IPW0000003	1329.8999	1333.7999	1332.4745	9.9979e-01	1.3282e+01
121	IPW0000004	383.1223	384.5872	383.8450	4.8568e-01	3.6325e+00
122	IPW0000005	254.5381	255.5145	255.0752	3.1579e-01	2.8391e+00
123	IPW0000006	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	IHT0000001	128.7184	131.2575	129.9449	6.2644e-01	4.3010e+00
129	IHT0000002	132.5721	135.3065	133.8300	6.1277e-01	4.3129e+00
130	IHT0000003	132.8951	135.4342	134.0357	5.9498e-01	4.3135e+00
131	IHT0000004	131.1861	133.5299	132.3423	5.9692e-01	4.3083e+00
132	IHT0000005	129.4621	132.3918	130.7277	5.6667e-01	4.3034e+00
133	IHT0000006	124.5831	126.9268	125.5088	5.5777e-01	4.2878e+00
134	IHT0000007	131.1899	133.9243	132.4868	5.4784e-01	4.3087e+00
135	IHT0000008	129.7701	132.1139	131.0201	5.4391e-01	4.3043e+00
136	IHT0000009	130.5401	132.4932	131.4776	5.6082e-01	4.3057e+00
137	IHT0000010	-40.1029	-37.9545	-39.0092	5.9843e-01	4.1185e+00
138	IHT0000011	130.3072	132.4557	131.4790	5.7589e-01	4.3057e+00
139	IHT0000012	127.9222	130.2659	129.1566	5.1966e-01	4.2986e+00
140	IHT0000013	91.6016	93.7500	92.6953	5.1750e-01	4.2035e+00
141	IHT0000014	127.7569	130.1007	128.9639	5.3188e-01	4.2980e+00
142	IHT0000015	95.2073	97.3558	96.3753	4.8245e-01	4.2117e+00
143	IHT0000016	88.9122	90.6701	89.9709	4.5006e-01	4.1976e+00
144	IHT0000017	107.0238	109.3675	108.1410	5.8399e-01	4.2402e+00
145	IHT0000018	107.9402	109.6980	108.8426	4.6503e-01	4.2420e+00
146	IHT0000019	104.0640	105.8218	104.9155	4.5807e-01	4.2321e+00
147	IHT0000020	106.9787	108.7365	107.7755	4.2286e-01	4.2393e+00
148	IHT0000021	-2.2273	-0.0789	-1.1882	5.1966e-01	4.1000e+00
149	IHT0000022	93.0551	94.8130	93.9067	4.0194e-01	4.2062e+00
150	IHT0000023	104.9504	106.5129	105.6691	3.5610e-01	4.2340e+00
151	IHT0000024	70.3538	71.7210	70.9280	3.4266e-01	4.1609e+00
152	IHT0000025	105.1345	106.5017	105.7985	3.8257e-01	4.2343e+00
153	IHT0000026	105.9120	107.4745	106.5331	4.1702e-01	4.2361e+00
154	IHT0000027	90.7752	92.3377	91.4197	4.4512e-01	4.2007e+00
155	IHT0000028	92.1161	94.0693	92.9169	4.9324e-01	4.2040e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	105.4012	107.5496	106.3934	4.9417e-01	4.2358e+00
157	IHT0000030	107.5984	110.1375	108.6610	4.8993e-01	4.2415e+00
158	IHT0000031	106.0322	108.7665	107.1377	5.1085e-01	4.2377e+00
159	IHT0000032	107.5233	109.8670	108.4725	5.0225e-01	4.2411e+00
160	IHT0000033	107.5458	109.6943	108.4209	4.8687e-01	4.2409e+00
161	IHT0000034	94.3284	96.0862	95.1253	4.0786e-01	4.2089e+00
162	IHT0000035	124.5042	126.2620	125.3285	4.0103e-01	4.2873e+00
163	IHT0000036	92.9950	94.5575	93.7138	4.1288e-01	4.2057e+00

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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

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#	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	TAP020136	94.7745	95.7190	95.2193	2.5317e-01	1.9004e+00
58	TAP120312	162.9681	164.6524	163.6338	3.5146e-01	1.9059e+00
59	TAP130312	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.5690	40.3518	1.0255e-01	7.5675e-01
102	PRV000001	19.7186	19.9627	19.8406	4.2716e-02	7.5164e-01
103	PSR000001	43.9611	44.2052	44.0953	5.0842e-02	7.5806e-01
104	PFH000001	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	PFH000002	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	VPW000001	101.6339	102.2198	101.8877	1.7313e-01	1.0148e+00
113	VPW000002	118.8514	119.2421	119.0819	1.0942e-01	1.0801e+00
114	VPW000003	146.8412	147.4271	147.0991	1.4994e-01	1.1979e+00
115	VPW000004	104.6687	105.0593	104.8367	1.4770e-01	1.0256e+00
116	VPW000005	139.4569	139.8475	139.6405	9.9902e-02	1.1654e+00
117	VPW000006	147.4797	148.0657	147.7296	1.2503e-01	1.2007e+00
118	IPW000001	545.4548	553.2642	548.9690	2.0871e+00	9.1879e+00
119	IPW000002	1304.2736	1319.8837	1311.1809	4.7176e+00	1.3149e+01
120	IPW000003	1325.9999	1331.8499	1328.5347	1.4872e+00	1.3258e+01
121	IPW000004	382.1458	384.0989	383.0833	5.8227e-01	3.6275e+00
122	IPW000005	254.0498	255.5145	254.6162	2.8519e-01	2.8365e+00
123	IPW000006	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	IHT000001	128.9137	131.0622	129.7574	5.4454e-01	4.3004e+00
129	IHT000002	132.7674	134.9158	133.5956	5.0772e-01	4.3122e+00
130	IHT000003	132.8951	135.0436	133.8169	4.5854e-01	4.3129e+00
131	IHT000004	131.1861	133.1393	132.0611	4.6057e-01	4.3074e+00
132	IHT000005	129.4621	131.4153	130.3996	4.3225e-01	4.3024e+00
133	IHT000006	124.1925	126.1456	125.2198	4.4957e-01	4.2870e+00
134	IHT000007	131.1899	133.3384	132.2954	4.6790e-01	4.3082e+00
135	IHT000008	129.9654	131.7233	130.7779	4.3290e-01	4.3035e+00
136	IHT000009	130.3448	132.4932	131.2315	4.7549e-01	4.3049e+00
137	IHT000010	-40.6889	-37.7592	-39.1498	5.5893e-01	4.1186e+00
138	IHT000011	129.7213	132.2603	131.1822	5.2532e-01	4.3048e+00
139	IHT000012	127.3362	129.8753	128.8206	5.5664e-01	4.2976e+00
140	IHT000013	90.6250	93.3594	92.2188	5.1351e-01	4.2024e+00
141	IHT000014	127.1710	129.3194	128.5850	4.7443e-01	4.2969e+00
142	IHT000015	94.6214	96.9651	95.9651	4.8430e-01	4.2108e+00
143	IHT000016	88.3263	90.6701	89.5177	4.8368e-01	4.1966e+00
144	IHT000017	105.6566	109.1722	107.2972	7.5696e-01	4.2381e+00
145	IHT000018	107.1590	109.6980	108.5457	5.4569e-01	4.2413e+00
146	IHT000019	103.6734	105.8218	104.7827	4.8878e-01	4.2318e+00
147	IHT000020	106.7833	108.5412	107.5216	4.5897e-01	4.2386e+00
148	IHT000021	-2.4226	-0.0789	-1.3172	5.6028e-01	4.1000e+00
149	IHT000022	92.4692	94.4223	93.3872	4.2909e-01	4.2050e+00
150	IHT000023	104.5598	106.7083	105.5441	4.9436e-01	4.2337e+00
151	IHT000024	69.7679	71.5257	70.7366	4.4461e-01	4.1606e+00
152	IHT000025	104.5485	106.5017	105.6305	4.7056e-01	4.2339e+00
153	IHT000026	105.3260	107.6698	106.3690	5.2883e-01	4.2357e+00
154	IHT000027	89.7987	92.5330	91.0057	5.3770e-01	4.1998e+00
155	IHT000028	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

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Velocity 1 - 4.0279 (ft/sec) (+/- 10.5232 %)
 Velocity 2 - 4.0111 (ft/sec) (+/- 4.1262 %)
 Pressure drop - -4.6469 (psi)
 Tsat in = 268.0124 (deg F) Tsat 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	TFH0000001	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	TAO130048	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	4.6764e-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

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#	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	TSI0000001	61.9832	62.6271	62.3242	1.4954e-01	1.9000e+00
54	TSI0000002	71.8921	75.2836	73.1248	7.5571e-01	1.9000e+00
55	TSO0000001	59.9136	60.8852	60.5117	2.0820e-01	1.9001e+00
56	TSO0000002	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.2028	40.5690	40.3371	8.9771e-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	109.1083	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

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Velocity 1 = 3.3383 (ft/sec) (+/- 15.3610 %)
 Velocity 2 = 3.3168 (ft/sec) (+/- 5.8162 %)
 Pressure drop = -4.7038 (psi)
 T_{sat} in = 268.2000 (deg F) T_{sat} 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 = 12.8970 (ft) A flow = 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	83.1877	83.8232	83.5606	1.7414e-01	1.9001e+00
1	TRF0000002	83.5252	83.9467	83.7149	1.4278e-01	1.9001e+00
2	TFN0000001	86.8110	87.6507	87.1660	2.0661e-01	1.9002e+00
3	TFN0000001	86.0499	86.8926	86.4396	1.5963e-01	1.9002e+00
4	TRV0000001	87.0196	87.8590	87.4203	2.1142e-01	1.9002e+00
5	TSR0000001	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

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#	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	-13.5657	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	9.7019e-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

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#	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

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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	TIN0000001	87.4401	88.4898	87.9458	2.5936e-01	1.9002e+00
3	TIN0000001	86.9973	87.4190	87.1806	1.2912e-01	1.9002e+00
4	TRV0000001	87.7520	88.4860	88.0936	1.9261e-01	1.9002e+00
5	TSR0000001	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	TAC050136	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

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#	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	TSI0000001	61.6625	62.4132	61.9777	2.1043e-01	1.9000e+00
54	TSI0000002	74.8607	78.1377	76.1874	6.6572e-01	1.9000e+00
55	TSO0000001	59.4815	60.4529	59.9803	2.0789e-01	1.9001e+00
56	TSO0000002	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

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#	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	109.2911	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.7146	40.0808	39.9978	9.3715e-02	7.5664e-01
102	PRV0000001	19.5965	19.8406	19.7283	4.1561e-02	7.5162e-01
103	PSR0000001	44.6935	44.8156	44.7643	6.0861e-02	7.5830e-01
104	PFM0000001	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	PFM0000002	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	VPW0000001	101.8292	102.6104	102.3213	1.3229e-01	1.0164e+00
113	VPW0000002	119.0467	119.6327	119.2967	1.0470e-01	1.0809e+00
114	VPW0000003	147.0365	147.4271	147.2007	1.0705e-01	1.1984e+00
115	VPW0000004	104.8640	105.6453	105.1492	1.3788e-01	1.0267e+00
116	VPW0000005	139.4569	140.4334	139.9179	2.0790e-01	1.1666e+00
117	VPW0000006	147.4797	148.0657	147.6749	1.6269e-01	1.2005e+00
118	IPW0000001	543.5024	551.3118	546.6262	1.6735e+00	9.1792e+00
119	IPW0000002	1296.4685	1306.2249	1301.1121	2.2608e+00	1.3087e+01
120	IPW0000003	1324.0499	1329.8999	1326.3119	1.4400e+00	1.3244e+01
121	IPW0000004	382.1458	383.1223	382.5755	3.0628e-01	3.6242e+00
122	IPW0000005	253.0734	254.5381	253.8936	4.1193e-01	2.8325e+00
123	IPW0000006	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	IHT0000001	127.9372	131.6481	129.8239	6.6686e-01	4.3006e+00
129	IHT0000002	131.5955	135.3065	133.5604	6.0799e-01	4.3121e+00
130	IHT0000003	131.9186	135.2389	133.7896	5.8937e-01	4.3128e+00
131	IHT0000004	130.0143	133.1393	131.9400	6.3627e-01	4.3071e+00
132	IHT0000005	128.4856	131.8059	130.2863	6.2302e-01	4.3020e+00
133	IHT0000006	123.2159	126.7315	125.1182	6.7521e-01	4.2867e+00
134	IHT0000007	130.4087	133.5337	132.1274	6.3626e-01	4.3076e+00
135	IHT0000008	129.1842	132.3092	130.6919	6.2644e-01	4.3033e+00
136	IHT0000009	129.9542	132.8839	131.2276	6.0263e-01	4.3049e+00
137	IHT0000010	-40.2982	-37.5639	-39.0756	5.8101e-01	4.1186e+00
138	IHT0000011	129.9166	132.8463	131.0415	6.0175e-01	4.3043e+00
139	IHT0000012	127.9222	130.2659	128.8597	5.7858e-01	4.2977e+00
140	IHT0000013	91.0156	93.5547	92.2070	5.2830e-01	4.2024e+00
141	IHT0000014	127.1710	129.7101	128.3897	5.2134e-01	4.2963e+00
142	IHT0000015	94.8167	96.7698	95.8675	4.5488e-01	4.2106e+00
143	IHT0000016	88.7169	90.4747	89.5334	4.6970e-01	4.1966e+00
144	IHT0000017	104.8753	109.3675	107.3402	1.0028e+00	4.2382e+00
145	IHT0000018	106.9636	109.8933	108.4207	6.6288e-01	4.2409e+00
146	IHT0000019	103.4781	105.8218	104.7398	5.2676e-01	4.2317e+00
147	IHT0000020	106.0021	108.3458	107.2638	5.5553e-01	4.2380e+00
148	IHT0000021	-2.6179	0.1164	-1.3093	6.7802e-01	4.1000e+00
149	IHT0000022	92.2739	94.6176	93.3169	5.4478e-01	4.2049e+00
150	IHT0000023	104.3645	106.7083	105.2316	5.0093e-01	4.2329e+00
151	IHT0000024	69.5726	71.7210	70.4671	4.5693e-01	4.1601e+00
152	IHT0000025	104.3532	106.8923	105.4470	4.9756e-01	4.2334e+00
153	IHT0000026	104.7401	107.2792	106.1385	5.0588e-01	4.2352e+00
154	IHT0000027	89.4080	91.9471	90.9315	4.7021e-01	4.1996e+00
155	IHT0000028	91.3349	94.6552	92.4248	7.0596e-01	4.2029e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	104.6199	108.3308	106.0301	7.0398e-01	4.2349e+00
157	IHT0000030	107.0125	110.3328	108.2508	6.7613e-01	4.2405e+00
158	IHT0000031	105.4462	108.7665	106.6767	7.0061e-01	4.2365e+00
159	IHT0000032	106.7420	110.2576	107.9920	7.2114e-01	4.2398e+00
160	IHT0000033	106.7646	110.2802	107.9756	6.9475e-01	4.2398e+00
161	IHT0000034	93.5472	96.4768	94.5901	5.7806e-01	4.2077e+00
162	IHT0000035	123.5277	126.6527	124.7933	5.7078e-01	4.2857e+00
163	IHT0000036	92.4091	94.7528	93.2607	5.3198e-01	4.2047e+00

DEFECTIVE INSTRUMENTS FOR THE RIBBED GEOMETRY TEST SERIES

Series	Tests	Defective Instruments
5	Aug16_01 to Aug16_07	TAO120048 TAF070136 TRT120000 TAO020136 TAF080136 TRT125000 TAO070136 TAF090136 TRR130000 TAO080136 TAF120136 TAO110136 TAO125136 IHT000010 IHT000021 IHT000024 IHT000033

Chapter 15

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS

Test Geometry: Ribbed (4)
Test Series: 6
Test Date: August 17, 1990

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Aug17_01	20.00	8.28
Aug17_02	16.04	3.57
Aug17_03	14.05	1.46
Aug17_04	11.96	-0.09
Aug17_05	11.06	-0.54
Aug17_08	10.14	-0.94
Aug17_06	10.03	-0.94
Aug17_07	9.93	-0.58

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F
Inlet pressure	40 psia
Wall heat flux	300 kBtu/hr-ft ²
Flux distribution	uniform
He saturation pressure	5 psig

NOTES:

(a) Inlet velocity calculated from PFM000031

(b) Pressure drop calculated from PAN000136

(c) Shading notes test at minimum pressure drop

DEMAND CURVE AND DATA FOR SERIES 6 - RIBBED ANNULUS

SERIES 6, AUG17_02

RIBBED (4)

$\phi = 299,600 \text{ Btu/hr-ft}^2$

$V_f = 16.04 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.12 \text{ psia}$

$T = 84.47^\circ\text{F}$

$L = 12.83 \text{ ft}$

RIBBED (4)

$\phi = 299,600 \text{ Btu/hr-ft}^2$

$V_f = 16.04 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.12 \text{ psia}$

$T = 84.47^\circ\text{F}$

$L = 12.83 \text{ ft}$

SERIES 6, AUG17_03

RIBBED (4)

$\phi = 300,500 \text{ Btu/hr-ft}^2$

$V_f = 14.05 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 39.83 \text{ psia}$

$T = 84.72^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_03

SERIES 6, AUG17_05

RIBBED (4)

$\phi = 300,100 \text{ Btu/hr-ft}^2$

$V_f = 11.06 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.22 \text{ psia}$

$T = 85.33^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_05

SERIES 6, AUG17_08

RIBBED (4)

$\Phi = 299,200 \text{ Btu/hr-ft}^2$

$V_f = 10.14 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 39.68 \text{ psia}$

$T = 86.08^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_08

SERIES 6, AUG17_06

RIBBED (4)

$\Phi = 299,200 \text{ Btu/hr-ft}^2$

$V_f = 10.03 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.10 \text{ psia}$

$T = 85.41^\circ\text{F}$

$L = 12.83 \text{ ft}$

RIBBED (4)

$\Phi = 299,200 \text{ Btu/hr-ft}^2$

$V_f = 10.03 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.10 \text{ psia}$

$T = 85.41^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_06

SERIES 6, AUG17_07

RIBBED (4)

$\phi = 299,300 \text{ Btu/hr-ft}^2$

$V_f = 9.93 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 39.83 \text{ psia}$

$T = 86.30^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_07

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Velocity 1 = 20.0019 (ft/sec) (+/- 1.7203 %)
 Velocity 2 = 13.4163 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 8.2827 (psi)
 Tsat in = 267.6479 (deg F) Tsat 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	TRF000001	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

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#	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	2.0011e-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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.1042	40.8132	39.9831	3.6245e-01	7.5663e-01
102	PRV0000001	19.5965	19.7196	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	IHT0000029	180.2058	183.9168	182.2020	6.4993e-01	4.4866e+00
157	IHT0000030	183.7703	187.0906	185.6923	6.4761e-01	4.5009e+00
158	IHT0000031	181.2275	184.3525	183.0830	6.7109e-01	4.4902e+00
159	IHT0000032	183.4998	186.6248	185.4179	7.0883e-01	4.4998e+00
160	IHT0000033	183.3271	186.6474	185.3545	7.0905e-01	4.4995e+00
161	IHT0000034	161.3206	163.6644	162.7465	5.7352e-01	4.4112e+00
162	IHT0000035	213.1761	215.9105	214.3987	6.5532e-01	4.6267e+00
163	IHT0000036	159.4013	161.7450	160.7138	5.6226e-01	4.4037e+00

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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 = 300.1730 (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	TAC050136	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	TRO200000	166.8031	167.9913	167.5239	2.5547e-01	1.9064e+00
25	TRO700000	196.9599	197.8371	197.3580	2.2064e-01	1.9109e+00
26	TRO100000	220.3459	221.2015	220.6280	2.0402e-01	1.9152e+00
27	TRO120000	217.1892	218.0469	217.6199	2.0868e-01	1.9146e+00
28	TRO125000	100.0121	100.7386	100.3439	1.9293e-01	1.9006e+00
29	TRO130000	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

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#	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.2263	40.8132	40.1247	3.3340e-01	7.5668e-01
102	PRV000001	19.5965	19.7186	19.6063	3.3453e-02	7.5160e-01
103	PSR000001	34.9279	35.1720	35.0280	5.8828e-02	7.5510e-01
104	PFM000001	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	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	-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	VPW000001	177.0245	177.6104	177.3135	1.1995e-01	1.3371e+00
113	VPW000002	207.1327	207.5233	207.3241	9.2456e-02	1.4844e+00
114	VPW000003	256.0209	256.6068	256.1888	1.4770e-01	1.7375e+00
115	VPW000004	182.0125	182.5984	182.2821	1.2409e-01	1.3610e+00
116	VPW000005	242.5819	243.3631	242.9570	1.9666e-01	1.6677e+00
117	VPW000006	257.2454	258.0266	257.7882	1.5926e-01	1.7460e+00
118	IPW000001	932.0189	945.6852	940.6484	3.9065e+00	1.0992e+01
119	IPW000002	2215.5164	2225.2727	2218.4824	2.1679e+00	1.9307e+01
120	IPW000003	2261.9998	2273.7000	2267.6157	2.0712e+00	1.9660e+01
121	IPW000004	651.1887	654.1184	652.4097	7.8454e-01	5.5285e+00
122	IPW000005	432.2547	435.1841	433.6021	7.4182e-01	3.9666e+00
123	IPW000006	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	IHT000001	220.7106	222.8591	221.6521	5.2747e-01	4.6608e+00
129	IHT000002	227.4940	229.2518	228.2831	4.7508e-01	4.6927e+00
130	IHT000003	228.9889	231.1373	230.0241	4.6897e-01	4.7012e+00
131	IHT000004	225.1315	227.0846	225.9518	4.6522e-01	4.6814e+00
132	IHT000005	222.6262	224.5793	223.4659	4.4860e-01	4.6694e+00
133	IHT000006	216.3799	218.5284	217.3760	4.8848e-01	4.6406e+00
134	IHT000007	225.7212	227.8696	226.6390	4.5720e-01	4.6847e+00
135	IHT000008	223.1295	225.2779	224.0592	4.9215e-01	4.6723e+00
136	IHT000009	223.5089	225.8526	224.4893	5.2865e-01	4.6743e+00
137	IHT000010	55.2096	57.3580	56.1978	4.8232e-01	4.1383e+00
138	IHT000011	224.0572	226.4010	225.1510	5.1750e-01	4.6775e+00
139	IHT000012	220.1097	222.2581	221.1253	5.0992e-01	4.6583e+00
140	IHT000013	159.1797	161.3281	160.1797	4.6961e-01	4.4018e+00
141	IHT000014	219.9444	222.2882	221.1826	5.3468e-01	4.6586e+00
142	IHT000015	164.3479	166.4964	165.3441	4.8848e-01	4.4208e+00
143	IHT000016	152.9747	155.1232	154.0138	4.8719e-01	4.3797e+00
144	IHT000017	183.1956	185.3441	184.5003	5.1515e-01	4.4960e+00
145	IHT000018	185.0886	187.8230	186.2450	5.3936e-01	4.5032e+00
146	IHT000019	179.2593	181.6031	180.5992	6.0362e-01	4.4801e+00
147	IHT000020	184.5177	186.6662	185.5802	5.7067e-01	4.5004e+00
148	IHT000021	-2.8132	-0.0789	-1.3601	6.9717e-01	4.1000e+00
149	IHT000022	159.0708	161.4145	160.2153	5.5385e-01	4.4019e+00
150	IHT000023	180.3411	182.8801	181.7042	5.4030e-01	4.4846e+00
151	IHT000024	144.9632	146.9163	146.1000	4.9235e-01	4.3525e+00
152	IHT000025	179.5486	181.8923	180.7047	5.3792e-01	4.4806e+00
153	IHT000026	181.4979	184.2323	182.8495	5.5501e-01	4.4893e+00
154	IHT000027	155.2284	157.7674	156.4159	5.5781e-01	4.3882e+00
155	IHT000028	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

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Velocity 1 = 14.0479 (ft/sec) (+/- 1.8647 %)
 Velocity 2 = 13.4129 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 1.4642 (psi)
 Tsat in = 267.5922 (deg F) Tsat out = 265.6233 (deg F)
 Phi inner = 299.0550 (kBtu/hr-ft2) (+/- 1.2355 %)
 Phi 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	TFH000001	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	TAFO50136	122.4009	124.7407	123.4836	4.9864e-01	1.9019e+00
32	TAFO70136	138.4125	140.6175	139.5337	5.9017e-01	1.9033e+00
33	TAFO80136	204.7397	207.6019	206.0877	6.9395e-01	1.9124e+00
34	TAFO90136	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

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#	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

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#	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.9353	40.1589	4.0506e-01	7.5669e-01
102	PRV000001	19.7186	19.9627	19.8455	3.4527e-02	7.5164e-01
103	PSR000001	39.3224	39.4445	39.3932	6.0861e-02	7.5644e-01
104	PFM000001	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	PFM000002	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	VPW000001	177.2198	177.6104	177.4698	1.1864e-01	1.3379e+00
113	VPW000002	207.3280	207.7186	207.5351	9.9902e-02	1.4855e+00
114	VPW000003	256.4115	256.9974	256.6810	1.1765e-01	1.7401e+00
115	VPW000004	182.4031	182.9890	182.5204	1.3087e-01	1.3621e+00
116	VPW000005	242.9725	243.7538	243.3163	2.0336e-01	1.6696e+00
117	VPW000006	257.8313	258.4172	258.2257	1.3375e-01	1.7483e+00
118	IPW000001	932.0189	945.6852	939.5156	3.8517e+00	1.0986e+01
119	IPW000002	2219.4189	2225.2727	2222.2283	1.2565e+00	1.9334e+01
120	IPW000003	2260.0498	2265.8999	2260.9854	1.1975e+00	1.9613e+01
121	IPW000004	648.7473	654.1184	650.5249	1.8840e+00	5.5146e+00
122	IPW000005	434.2076	436.6487	435.2327	4.8574e-01	3.9777e+00
123	IPW000006	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	IHT000001	219.9294	222.6637	221.2731	6.0828e-01	4.6590e+00
129	IHT000002	226.5174	229.2518	227.8573	5.8661e-01	4.6906e+00
130	IHT000003	228.5983	230.9420	229.8717	5.8957e-01	4.7004e+00
131	IHT000004	224.1549	226.6940	225.6393	6.3626e-01	4.6799e+00
132	IHT000005	221.8449	224.1887	223.2433	5.8708e-01	4.6684e+00
133	IHT000006	215.7940	218.3331	217.2471	6.4737e-01	4.6400e+00
134	IHT000007	225.1352	227.8696	226.6820	6.2991e-01	4.6849e+00
135	IHT000008	222.9342	225.2779	224.0905	5.6612e-01	4.6724e+00
136	IHT000009	222.9229	225.8526	224.3135	6.3336e-01	4.6735e+00
137	IHT000010	55.0143	56.9674	55.8892	4.8687e-01	4.1379e+00
138	IHT000011	223.8619	225.6197	224.7604	5.0532e-01	4.6757e+00
139	IHT000012	219.7191	221.8675	220.7815	5.6656e-01	4.6567e+00
140	IHT000013	158.9844	161.1328	159.9141	5.4328e-01	4.4008e+00
141	IHT000014	219.9444	222.0929	221.0694	5.0464e-01	4.6580e+00
142	IHT000015	163.7620	166.1058	165.0433	5.1473e-01	4.4197e+00
143	IHT000016	152.5841	154.7326	153.6192	4.9166e-01	4.3783e+00
144	IHT000017	183.0003	186.7112	184.3011	7.6678e-01	4.4952e+00
145	IHT000018	184.8933	187.6277	186.0262	6.8912e-01	4.5023e+00
146	IHT000019	179.2593	182.1890	180.2750	5.7318e-01	4.4788e+00
147	IHT000020	183.9318	187.2521	185.2364	5.8586e-01	4.4990e+00
148	IHT000021	-3.0086	0.3118	-1.6257	6.8554e-01	4.1000e+00
149	IHT000022	158.6801	161.2192	159.5747	5.2510e-01	4.3996e+00
150	IHT000023	180.3411	182.6848	181.3566	5.3087e-01	4.4832e+00
151	IHT000024	144.7679	146.9163	145.8578	4.8342e-01	4.3517e+00
152	IHT000025	179.3532	182.0876	180.6305	5.4277e-01	4.4803e+00
153	IHT000026	181.4979	184.4276	182.8339	6.1809e-01	4.4892e+00
154	IHT000027	154.8377	157.3768	156.0995	5.4421e-01	4.3871e+00
155	IHT000028	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

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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

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#	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	6.1342e-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

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#	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	226.4240	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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#	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

AIM

Association for Information and Image Management

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

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

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Velocity 1 = 9.9303 (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

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#	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	2.8189e-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

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#	Name	Min	Max	Ave	SD	Uncert
101	PRV000001	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

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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)
 Tsat in - 267.3824 (deg F) Tsat 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	TRF0000001	84.6700	85.5161	85.1143	1.8752e-01	1.9002e+00
1	TRF0000002	84.9996	85.6309	85.2647	1.4611e-01	1.9002e+00
2	TFM0000001	86.2926	87.1341	86.7348	2.0692e-01	1.9002e+00
3	TIN0000001	85.8399	86.4727	86.0808	1.2060e-01	1.9002e+00
4	TRV0000001	87.5529	88.4965	87.9644	2.2463e-01	1.9002e+00
5	TSR0000001	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

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#	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	TSI0000001	59.4203	60.1724	59.7994	1.7386e-01	1.9001e+00
54	TSI0000002	87.2981	89.0794	88.1363	4.7232e-01	1.9002e+00
55	TSO0000001	56.6649	57.4221	57.0891	1.8657e-01	1.9001e+00
56	TSO0000002	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

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#	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	IHT0000001	219.5387	222.6637	220.9997	6.8030e-01	4.6577e+00
129	IHT0000002	225.7362	229.0565	227.4159	6.6028e-01	4.6885e+00
130	IHT0000003	227.8170	231.1373	229.4147	6.9440e-01	4.6982e+00
131	IHT0000004	223.5690	226.8893	225.2096	7.3927e-01	4.6778e+00
132	IHT0000005	221.4543	224.9699	222.8136	7.2433e-01	4.6663e+00
133	IHT0000006	215.5987	218.7237	216.9229	7.2468e-01	4.6385e+00
134	IHT0000007	225.1352	228.0649	226.4281	6.7530e-01	4.6837e+00
135	IHT0000008	222.3483	225.0826	223.8561	6.0495e-01	4.6713e+00
136	IHT0000009	222.3370	225.0714	224.0166	6.2390e-01	4.6721e+00
137	IHT0000010	54.2330	56.7721	55.5767	6.0314e-01	4.1375e+00
138	IHT0000011	222.8853	226.0103	224.4323	6.6713e-01	4.6741e+00
139	IHT0000012	218.9378	222.2581	220.4339	7.0101e-01	4.6550e+00
140	IHT0000013	158.3984	161.7188	159.7930	6.6264e-01	4.4004e+00
141	IHT0000014	219.1632	222.8741	221.0381	7.5593e-01	4.6579e+00
142	IHT0000015	163.3714	166.4964	164.8715	6.1566e-01	4.4191e+00
143	IHT0000016	152.1935	155.1232	153.4669	5.4568e-01	4.3778e+00
144	IHT0000017	182.6097	186.1253	184.2699	6.3534e-01	4.4951e+00
145	IHT0000018	184.3074	187.6277	185.9598	6.5579e-01	4.5020e+00
146	IHT0000019	179.0640	181.7984	180.2515	6.4094e-01	4.4787e+00
147	IHT0000020	184.1271	186.6662	185.3341	6.0578e-01	4.4994e+00
148	IHT0000021	-2.8132	0.3118	-1.3640	7.3831e-01	4.1000e+00
149	IHT0000022	158.4848	161.0239	159.6997	5.7085e-01	4.4000e+00
150	IHT0000023	180.3411	182.4895	181.3683	5.2320e-01	4.4832e+00
151	IHT0000024	144.5726	147.1116	145.8461	5.2086e-01	4.3517e+00
152	IHT0000025	179.3532	181.8923	180.7126	5.4954e-01	4.4806e+00
153	IHT0000026	181.6932	184.0370	182.9784	5.3828e-01	4.4898e+00
154	IHT0000027	155.0331	157.5721	156.2675	5.6143e-01	4.3877e+00
155	IHT0000028	157.1552	160.0849	158.3935	6.5508e-01	4.3953e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	180.5965	183.3308	181.8192	6.5174e-01	4.4851e+00
157	IHT0000030	183.9656	186.5047	185.2040	6.7383e-01	4.4989e+00
158	IHT0000031	181.2275	183.5712	182.3564	6.5826e-01	4.4872e+00
159	IHT0000032	183.3045	186.0389	184.7851	7.0043e-01	4.4972e+00
160	IHT0000033	183.3271	185.8661	184.7295	6.9103e-01	4.4969e+00
161	IHT0000034	161.3206	163.2737	162.3051	5.1593e-01	4.4096e+00
162	IHT0000035	212.9808	216.1058	214.2073	7.0811e-01	4.6258e+00
163	IHT0000036	159.2060	161.7450	160.3974	5.9353e-01	4.4026e+00

DEFECTIVE INSTRUMENTS FOR THE RIBBED GEOMETRY TEST SERIES

Series	Tests	Defective Instruments
6	Aug17_01 to Aug17_08	TAO120048 TAF070136 TRT120000 TAO020136 TAF080136 TRT125000 TAO070136 TAF090136 TRR130000 TAO080136 TAF120136 TAO110136 TAO125136 IHT000010 IHT000021 IHT000024 IHT000033

Chapter 16

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS

Test Geometry: Ribbed (4)
Test Series: 7
Test Date: August 17, 1990

TOTAL PRESSURE DROP (psi)

□ SERIES 7, 08/17/90 — UNHEATED, 08/14/90

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Aug17_09	20.11	8.71
Aug17_10	16.11	3.76
Aug17_11	11.99	-0.20
Aug17_12	11.07	-0.89
Aug17_13	10.03	-1.56
Aug17_14	9.51	-1.75
Aug17_15	9.04	-1.85
Aug17_17	8.84	-1.97
Aug17_16	8.71	-1.66

(c)

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F
Inlet pressure	60 psia
Wall heat flux	300 kBtu/hr-ft ²
Flux distribution	uniform
He saturation pressure	5 psig

NOTES:

- (a) Inlet velocity calculated from PFM000001
- (b) Pressure drop calculated from PAN000136
- (c) Shading notes test at minimum pressure drop

DEMAND CURVE AND DATA FOR SERIES 7 - RIBBED ANNULUS

SERIES 7, AUG17_09

RIBBED (4)

$\Phi = 300,200 \text{ Btu/hr-ft}^2$

$V_f = 20.11 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 60.09 \text{ psia}$

$T = 86.51 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_09

SERIES 7, AUG17_10

RIBBED (4)

$\phi = 300,300 \text{ Btu/hr-ft}^2$

$V_f = 16.10 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 59.93 \text{ psia}$

$T = 86.83 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_10

SERIES 7, AUG17_13

RIBBED (4)

$\Phi = 300,500 \text{ Btu/hr-ft}^2$

$V_f = 10.03 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 60.37 \text{ psia}$

$T = 85.28 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_13

AUG17_15

SERIES 7, AUG17_16

RIBBED (4)

$\Phi = 300,000 \text{ Btu/hr-ft}^2$

$V_f = 8.71 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 60.28 \text{ psia}$

$T = 85.90 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

RIBBED (4)

$\Phi = 300,000 \text{ Btu/hr-ft}^2$

$V_f = 8.71 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 60.28 \text{ psia}$

$T = 85.90 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_17

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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

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#	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

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#	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

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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	TRP000001	84.6700	85.3047	85.0720	1.7751e-01	1.9002e+00
1	TRP000002	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	TAP050136	118.7370	120.3695	119.5659	3.4843e-01	1.9017e+00
32	TAP070136	132.6849	134.2958	133.5301	4.0206e-01	1.9027e+00
33	TAP080136	192.7600	271.1993	199.2631	1.5211e+01	1.9112e+00
34	TAP090136	90.6867	91.6293	91.2606	2.4311e-01	1.9003e+00
35	TAP100136	152.9260	154.3257	153.7702	3.5669e-01	1.9047e+00
36	TAP105136	156.4068	157.9858	157.2466	3.5510e-01	1.9051e+00
37	TAP110136	161.2674	162.2566	161.7746	2.4281e-01	1.9057e+00
38	TAP115136	165.3594	166.4465	165.8343	2.4830e-01	1.9062e+00
39	TAP120136	189.3649	192.5522	190.6941	8.5895e-01	1.9098e+00
40	TAP125136	172.0903	173.9449	172.8371	4.3350e-01	1.9071e+00
41	TAP130136	174.5239	175.8968	175.2848	3.0598e-01	1.9075e+00
42	TAP120048	177.3320	178.6153	177.9323	3.2912e-01	1.9078e+00
43	TAP130048	185.7779	187.2398	186.3087	3.1062e-01	1.9091e+00
44	TAP120224	165.8661	167.1500	166.4512	3.3425e-01	1.9063e+00
45	TAP130224	171.2685	172.4556	172.0044	2.8065e-01	1.9070e+00

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#	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	1.9028e+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	TAP020136	96.0293	98.0215	97.0778	4.2843e-01	1.9005e+00
58	TAP120312	172.7513	175.1113	173.8650	4.7512e-01	1.9073e+00
59	TAP130312	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	9.7020e-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	56.7563	57.5342	57.3017	1.8470e-01	5.9743e-01
100	PAB125136	55.9725	56.7965	56.5758	1.4198e-01	5.9700e-01

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#	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	256.3890	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	4.5900e+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

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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)
 Tsat in - 293.3033 (deg F) Tsat 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	219.3128	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

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#	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

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#	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

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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) (+/- 1.2640 %)
 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	85.0931	84.8477	1.8317e-01	1.9001e+00
1	TRF000002	84.7891	85.2100	85.0585	1.3474e-01	1.9002e+00
2	TFH000001	85.1377	85.8744	85.4954	2.0934e-01	1.9002e+00
3	TIN000001	84.4697	85.2083	84.9086	1.6967e-01	1.9001e+00
4	TRV000001	86.1931	86.9260	86.5865	1.5497e-01	1.9002e+00
5	TSR000001	145.8048	152.6811	149.8980	1.7955e+00	1.9043e+00
6	TAC020136	142.4603	144.9777	143.5401	5.6664e-01	1.9036e+00
7	TAC050136	200.5669	203.0599	201.6616	6.9961e-01	1.9116e+00
8	TAC070136	195.0575	199.8186	196.9944	1.3155e+00	1.9108e+00
9	TAC080136	234.1035	235.6032	234.7628	3.4072e-01	1.9182e+00
10	TAC090136	242.4698	243.8752	243.2233	3.5657e-01	1.9201e+00
11	TAC100136	234.5643	236.0714	235.3552	3.6012e-01	1.9183e+00
12	TAC105136	240.9345	242.2517	241.5635	3.4723e-01	1.9197e+00
13	TAC110136	92.5594	93.1865	92.9189	1.4778e-01	1.9004e+00
14	TAC115136	245.8683	247.9303	247.0757	3.7318e-01	1.9210e+00
15	TAC120136	269.5875	270.8814	270.3303	3.2506e-01	1.9268e+00
16	TAC125136	246.9245	260.9691	254.5216	3.3641e+00	1.9228e+00
17	TAC130136	258.1371	259.4261	258.7159	2.7210e-01	1.9238e+00
18	TAC120048	111.4739	112.6072	112.0220	2.5844e-01	1.9012e+00
19	TAC130048	275.4034	276.5975	276.0645	2.4303e-01	1.9284e+00
20	TAC120224	265.7385	266.8477	266.3340	2.7558e-01	1.9258e+00
21	TAC130224	247.7618	250.4485	249.1554	5.3512e-01	1.9215e+00
22	TAC120312	266.6361	268.5814	267.4814	4.2891e-01	1.9261e+00
23	TAC130312	271.8655	272.8787	272.3265	2.4549e-01	1.9274e+00
24	TAC120000	196.4061	197.6665	197.0151	2.6657e-01	1.9108e+00
25	TAC170000	237.6140	238.9415	238.1603	2.7395e-01	1.9190e+00
26	TAC100000	270.8979	272.2775	271.5269	3.4508e-01	1.9272e+00
27	TAC120000	459.6284	459.9706	459.8098	9.5625e-02	1.9997e+00
28	TAC125000	94.9416	95.8778	95.4210	1.9497e-01	1.9004e+00
29	TAC130000	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	59.6830	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	59.0017	60.4665	59.8879	4.4720e-01	7.6480e-01
102	PRV000001	19.8406	19.9627	19.8895	6.0409e-02	7.5165e-01
103	PSR000001	59.8302	60.0743	59.9986	7.3532e-02	7.6485e-01
104	PPH000001	18.4866	19.0359	18.7283	1.1515e-01	5.0219e-01
105	PAN000136	-38.8655	-11.8575	-24.6016	6.8133e+00	4.9204e+00
106	PPH000002	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	VPM000001	177.4151	178.0011	177.6104	1.5282e-01	1.3386e+00
113	VPM000002	207.5233	207.7186	207.6054	9.7377e-02	1.4858e+00
114	VPM000003	256.6068	256.9974	256.8685	1.0145e-01	1.7411e+00
115	VPM000004	182.4031	182.9890	182.6298	1.2701e-01	1.3627e+00
116	VPM000005	243.1678	243.5584	243.3671	1.2780e-01	1.6698e+00
117	VPM000006	258.2219	258.8079	258.5265	1.4848e-01	1.7499e+00
118	IPW000001	930.0665	945.6852	938.6179	4.4780e+00	1.0982e+01
119	IPW000002	2213.5652	2221.3704	2216.6873	2.1949e+00	1.9294e+01
120	IPW000003	2258.0999	2265.8999	2262.3518	1.9175e+00	1.9622e+01
121	IPW000004	650.2122	652.6536	651.1987	7.0786e-01	5.5196e+00
122	IPW000005	431.7664	433.7194	432.8502	4.3322e-01	3.9615e+00
123	IPW000006	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	IHT000001	219.7341	222.4684	221.0856	5.4937e-01	4.6581e+00
129	IHT000002	226.3221	228.6658	227.5292	5.1401e-01	4.6890e+00
130	IHT000003	228.2076	230.7467	229.4577	5.3959e-01	4.6984e+00
131	IHT000004	224.1549	226.8893	225.4362	5.8681e-01	4.6789e+00
132	IHT000005	221.8449	224.3840	223.1104	5.3994e-01	4.6677e+00
133	IHT000006	215.5987	218.3331	217.0244	5.4712e-01	4.6390e+00
134	IHT000007	224.9399	227.8696	226.4476	5.8798e-01	4.6838e+00
135	IHT000008	222.5436	225.0826	223.8405	5.4356e-01	4.6712e+00
136	IHT000009	222.5323	225.2667	224.0205	6.0217e-01	4.6721e+00
137	IHT000010	54.2330	56.3815	55.3932	4.8554e-01	4.1373e+00
138	IHT000011	223.0807	225.0338	224.3112	4.6059e-01	4.6735e+00
139	IHT000012	219.3284	221.2816	220.3909	4.7377e-01	4.6548e+00
140	IHT000013	158.7891	161.1328	159.8477	5.1159e-01	4.4006e+00
141	IHT000014	219.7491	221.8976	220.7764	5.2171e-01	4.6566e+00
142	IHT000015	163.7620	165.9104	164.9222	5.2111e-01	4.4193e+00
143	IHT000016	152.1935	154.5372	153.5567	5.0608e-01	4.3781e+00
144	IHT000017	182.6097	185.7347	184.3011	6.6919e-01	4.4952e+00
145	IHT000018	184.6980	187.2371	185.9208	6.3969e-01	4.5019e+00
146	IHT000019	179.0640	181.7984	180.1187	6.0875e-01	4.4782e+00
147	IHT000020	184.5177	187.0568	185.4239	5.9551e-01	4.4998e+00
148	IHT000021	-2.6179	0.5071	-1.4812	7.2726e-01	4.1000e+00
149	IHT000022	158.4848	161.4145	159.7231	6.2217e-01	4.4001e+00
150	IHT000023	180.1458	183.0754	181.3566	6.4235e-01	4.4832e+00
151	IHT000024	144.5726	147.5023	145.7797	6.2849e-01	4.3515e+00
152	IHT000025	179.3532	182.4782	180.6461	6.5660e-01	4.4803e+00
153	IHT000026	181.4979	184.0370	182.8339	6.5001e-01	4.4892e+00
154	IHT000027	154.8377	157.5721	156.2167	6.6779e-01	4.3875e+00
155	IHT000028	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

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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	TRF0000001	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	TAP050136	137.6702	140.5840	139.0598	6.7202e-01	1.9032e+00
32	TAP070136	159.7069	163.0610	161.3829	7.2588e-01	1.9056e+00
33	TAP080136	249.0694	255.1816	251.4461	1.6062e+00	1.9221e+00
34	TAP090136	99.2338	100.1700	99.7348	1.9781e-01	1.9006e+00
35	TAP100136	193.0279	196.0360	194.1481	5.4206e-01	1.9104e+00
36	TAP105136	198.7897	201.3720	199.7756	5.5635e-01	1.9113e+00
37	TAP110136	205.4373	207.7348	206.3747	4.1978e-01	1.9125e+00
38	TAP115136	211.7468	213.4668	212.7121	4.0626e-01	1.9137e+00
39	TAP120136	265.1942	270.7145	268.4317	1.2666e+00	1.9263e+00
40	TAP125136	223.0036	225.0767	224.0585	4.4435e-01	1.9159e+00
41	TAP130136	227.1595	228.6729	228.0051	3.4148e-01	1.9167e+00
42	TAP120048	229.0973	230.7166	230.0255	4.1528e-01	1.9172e+00
43	TAP130048	243.6525	244.9651	244.3257	3.4646e-01	1.9204e+00
44	TAP120224	212.7680	214.7738	214.0115	4.1458e-01	1.9139e+00
45	TAP130224	222.1431	223.2898	222.6572	2.7969e-01	1.9156e+00

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#	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	TSI0000001	59.3117	60.0639	59.6710	1.8235e-01	1.9001e+00
54	TSI0000002	86.0376	87.8218	86.9966	3.2905e-01	1.9002e+00
55	TSO0000001	56.2328	57.0985	56.6635	2.1368e-01	1.9001e+00
56	TSO0000002	75.4524	76.1964	75.8244	1.9099e-01	1.9000e+00
57	TAP020136	102.3129	105.9634	103.9643	7.8423e-01	1.9008e+00
58	TAP120312	223.7194	226.4744	225.0482	5.9892e-01	1.9161e+00
59	TAP130312	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	7.6662	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

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#	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	PFH000001	14.9160	15.6484	15.3445	1.6589e-01	5.0147e-01
105	PAM000136	-59.0071	-29.2525	-43.2326	7.7785e+00	4.9212e+00
106	PFH000002	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	5.4681e-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

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Velocity 1 = 9.5128 (ft/sec) (+/- 2.4665 %)
 Velocity 2 = 9.5354 (ft/sec) (+/- 1.7935 %)
 Pressure drop = -1.7527 (psi)
 Tsat in = 292.8298 (deg F) Tsat 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	TFH000001	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	TAT020000	210.4075	211.7525	211.1124	2.9980e-01	1.9134e+00
25	TAT070000	258.7267	260.7850	259.8516	3.4929e-01	1.9241e+00
26	TAT100000	295.6649	296.9370	296.4551	2.8957e-01	1.9342e+00
27	TAT120000	459.4574	459.8858	459.6681	8.1460e-02	1.9997e+00
28	TAT125000	104.2385	105.2700	104.7745	1.8952e-01	1.9008e+00
29	TAT130000	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	206.3611	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

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#	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

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#	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	IHT0000029	180.4012	183.3308	181.7919	7.8089e-01	4.4850e+00
157	IHT0000030	183.7703	186.5047	185.2509	7.4878e-01	4.4991e+00
158	IHT0000031	180.8368	183.5712	182.3564	6.8945e-01	4.4872e+00
159	IHT0000032	183.1092	186.2342	184.7733	6.9948e-01	4.4971e+00
160	IHT0000033	182.9365	186.0615	184.6943	7.2114e-01	4.4968e+00
161	IHT0000034	161.1253	163.4690	162.3871	5.8289e-01	4.4099e+00
162	IHT0000035	212.7855	214.9339	213.9104	5.7799e-01	4.6245e+00
163	IHT0000036	159.4013	161.5497	160.4170	5.1900e-01	4.4027e+00

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Velocity 1 - 9.0381 (ft/sec) (+/- 2.6151 %)
 Velocity 2 - 9.0504 (ft/sec) (+/- 1.8209 %)
 Pressure drop - -1.8450 (psi)
 Tsat in - 293.1857 (deg F) Tsat 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	TAO130048	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	TAO130224	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	TAO130312	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	2.1225e-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

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#	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	PIN000001	59.6120	61.0769	60.4226	4.3335e-01	7.6506e-01
102	PRV000001	19.7186	19.8406	19.8162	4.9324e-02	7.5163e-01
103	PSR000001	61.7833	62.0275	61.8883	4.9385e-02	7.6579e-01
104	PFM000001	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	PFM000002	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	VPW000001	177.6104	178.0011	177.7198	1.0559e-01	1.3391e+00
113	VPW000002	207.7186	208.3046	207.8905	1.1599e-01	1.4873e+00
114	VPW000003	256.9974	257.3881	257.3021	1.0559e-01	1.7434e+00
115	VPW000004	182.5984	182.9890	182.8524	1.2001e-01	1.3637e+00
116	VPW000005	243.3631	243.9491	243.6874	1.2232e-01	1.6715e+00
117	VPW000006	258.4172	259.1985	258.9171	1.3760e-01	1.7520e+00
118	IPW000001	930.0665	939.8282	934.9476	2.0209e+00	1.0962e+01
119	IPW000002	2223.3215	2238.9316	2232.3750	5.2707e+00	1.9407e+01
120	IPW000003	2256.1499	2261.9998	2259.1135	1.5876e+00	1.9599e+01
121	IPW000004	646.3059	651.1887	648.2593	1.6857e+00	5.4979e+00
122	IPW000005	432.7429	434.6958	433.6510	4.0681e-01	3.9669e+00
123	IPW000006	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	IHT000001	219.1481	221.8825	220.7731	6.4530e-01	4.6566e+00
129	IHT000002	225.7362	228.2752	227.2831	6.3729e-01	4.6878e+00
130	IHT000003	227.6217	230.1608	229.1139	6.3841e-01	4.6967e+00
131	IHT000004	223.1783	225.9127	224.8971	6.6848e-01	4.6763e+00
132	IHT000005	221.2590	223.6028	222.6534	5.6360e-01	4.6656e+00
133	IHT000006	215.0128	217.7471	216.7549	6.2245e-01	4.6377e+00
134	IHT000007	224.5493	227.2837	226.2250	6.1522e-01	4.6827e+00
135	IHT000008	221.9576	224.6920	223.6139	6.1414e-01	4.6702e+00
136	IHT000009	221.7510	225.0714	223.8057	6.7455e-01	4.6711e+00
137	IHT000010	53.8424	56.5768	55.2799	7.2088e-01	4.1371e+00
138	IHT000011	222.4947	225.4244	224.0495	6.5312e-01	4.6722e+00
139	IHT000012	218.7425	221.2816	220.0979	6.3062e-01	4.6534e+00
140	IHT000013	158.3984	160.5469	159.6211	5.3059e-01	4.3998e+00
141	IHT000014	219.1632	221.3116	220.5108	5.4712e-01	4.6554e+00
142	IHT000015	163.3714	165.7151	164.7347	5.4461e-01	4.4186e+00
143	IHT000016	151.9982	154.3419	153.3810	5.4081e-01	4.3775e+00
144	IHT000017	182.0237	185.3441	184.0238	6.3938e-01	4.4940e+00
145	IHT000018	183.9168	187.0418	185.7450	6.8885e-01	4.5011e+00
146	IHT000019	178.6734	181.4077	179.9898	5.7563e-01	4.4777e+00
147	IHT000020	183.9318	186.6662	185.1114	5.8522e-01	4.4985e+00
148	IHT000021	-3.2039	0.1164	-1.5554	7.2990e-01	4.1000e+00
149	IHT000022	158.0942	160.8286	159.4653	6.1951e-01	4.3992e+00
150	IHT000023	179.7551	182.4895	181.1495	6.4599e-01	4.4824e+00
151	IHT000024	144.1820	146.7210	145.5453	5.8192e-01	4.3507e+00
152	IHT000025	179.1579	181.5017	180.4469	5.9973e-01	4.4795e+00
153	IHT000026	181.4979	184.0370	182.6386	6.3179e-01	4.4884e+00
154	IHT000027	154.8377	157.3768	156.0136	6.6203e-01	4.3868e+00
155	IHT000028	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	173.7703	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

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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)
 Tsat in = 293.1685 (deg F) Tsat 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	TRF0000001	84.2466	84.8816	84.5387	1.7572e-01	1.9001e+00
1	TRF0000002	84.5785	84.9996	84.8859	1.1420e-01	1.9001e+00
2	TFM0000001	85.9766	86.9225	86.4512	1.8758e-01	1.9002e+00
3	TIN0000001	85.6288	86.2618	85.9031	1.3618e-01	1.9002e+00
4	TRV0000001	87.3413	88.7004	87.7893	2.4030e-01	1.9002e+00
5	TSR0000001	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	TAFO50136	144.3884	147.3873	145.9803	7.6149e-01	1.9039e+00
32	TAFO70136	168.5640	172.3842	170.2228	8.4472e-01	1.9068e+00
33	TAFO80136	267.0665	272.1087	269.5949	1.2378e+00	1.9267e+00
34	TAFO90136	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

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#	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	TSI0000001	59.6325	60.4924	60.0024	1.9418e-01	1.9001e+00
54	TSI0000002	91.1673	92.9431	92.1327	3.4337e-01	1.9003e+00
55	TSO0000001	56.2328	57.2068	56.7178	1.9466e-01	1.9001e+00
56	TSO0000002	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	8.821e-04	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

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#	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

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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	TRF000001	84.2466	84.8816	84.5980	1.7943e-01	1.9001e+00
1	TRF000002	84.7891	84.9996	84.8901	1.0623e-01	1.9001e+00
2	TRF000001	86.3958	87.2363	86.6718	1.8961e-01	1.9002e+00
3	TIN000001	85.8395	86.4724	86.1287	1.5032e-01	1.9002e+00
4	TRV000001	87.5504	88.2825	87.9715	1.7638e-01	1.9002e+00
5	TSR000001	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	222.3846	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

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#	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	5.9388e-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	2.2294	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

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#	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	PPH000001	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	PPH000002	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	-0.0045	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

DEFECTIVE INSTRUMENTS FOR THE RIBBED GEOMETRY TEST SERIES

Series	Tests	Defective Instruments
7	Aug17_09 to Aug17_17	TAO120048 TAF070136 TRT120000 TAO020136 TAF080136 TRT125000 TAO070136 TAF090136 TRR130000 TAO080136 TAF120136 TAO110136 TAO125136 IHT000010 IHT000021 IHT000024 IHT000033

Chapter 17

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS

Test Geometry: Ribbed (4)
Test Series: 9
Test Date: August 17, 1990

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Aug17_18	19.97	8.48
Aug17_19	16.07	3.94
Aug17_20	14.05	2.17
Aug17_21	13.06	1.61
Aug17_22	12.82	1.44
Aug17_24	12.70	1.47
Aug17_25	12.46	2.00

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F
Inlet pressure	40 psia
Wall heat flux	375 kBtu/hr-ft ²
Flux distribution	uniform
He saturation pressure	5 psig

NOTES:

- (a) Inlet velocity calculated from PFM000001
- (b) Pressure drop calculated from PAN000136
- (c) Shading notes test at minimum pressure drop

DEMAND CURVE AND DATA FOR SERIES 9 - RIBBED ANNULUS

SERIES 9, AUG17_18

RIBBED (4)

$\phi = 374,200 \text{ Btu/hr-ft}^2$

$V_f = 19.97 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 39.86 \text{ psia}$

$T = 86.64 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

RIBBED (4)

$\phi = 374,200 \text{ Btu/hr-ft}^2$

$V_f = 19.97 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 39.86 \text{ psia}$

$T = 86.64 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_18

SERIES 9, AUG17_20

RIBBED (4)

$\phi = 376,200 \text{ Btu/hr-ft}^2$

$V_f = 14.05 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.24 \text{ psia}$

$T = 87.10^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_20

SERIES 9, AUG17_22

RIBBED (4)

$\phi = 374,000 \text{ Btu/hr-ft}^2$

$V_f = 12.82 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.06 \text{ psia}$

$T = 85.20^\circ\text{F}$

$L = 12.83 \text{ ft}$

RIBBED (4)

$\phi = 374,000 \text{ Btu/hr-ft}^2$

$V_f = 12.82 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.06 \text{ psia}$

$T = 85.20^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_22

SERIES 9, AUG17_23

RIBBED (4)

$\phi = 374,300 \text{ Btu/hr-ft}^2$

$V_f = 12.60 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.12 \text{ psia}$

$T = 86.00^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_23

SERIES 9, AUG17_25

RIBBED (4)

$\Phi = 376,000 \text{ Btu/hr-ft}^2$

$V_f = 12.46 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 40.19 \text{ psia}$

$T = 85.83^\circ\text{F}$

$L = 12.83 \text{ ft}$

AUG17_25

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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	TRF0000001	83.3996	84.4583	83.7850	1.9460e-01	1.9001e+00
1	TRF0000002	83.7360	84.3679	84.0183	1.4501e-01	1.9001e+00
2	TFM0000001	86.8120	87.5471	87.1860	1.8147e-01	1.9002e+00
3	TIN0000001	86.3658	86.8928	86.6356	1.1698e-01	1.9002e+00
4	TRV0000001	88.1715	89.0092	88.5946	1.9825e-01	1.9002e+00
5	TSR0000001	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

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#	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	TAR130000	136.2536	137.4630	136.9832	2.8902e-01	1.9030e+00
53	TSI0000001	58.5564	59.3107	58.9135	2.0770e-01	1.9001e+00
54	TSI0000002	64.3341	66.2564	65.2741	5.4127e-01	1.9000e+00
55	TSO0000001	56.0180	56.6685	56.3304	2.0361e-01	1.9001e+00
56	TSO0000002	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	38.9821	40.4470	39.8635	4.3020e-01	7.5659e-01
102	PRV000001	19.2303	19.3524	19.2816	6.0861e-02	7.5155e-01
103	PSR000001	29.0685	29.5568	29.2418	1.3301e-01	7.5355e-01
104	PFM000001	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	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	-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	VPW000001	198.5089	198.8995	198.6494	1.1189e-01	1.4411e+00
113	VPW000002	232.3280	232.7186	232.5195	9.2456e-02	1.6132e+00
114	VPW000003	288.0521	288.6381	288.3840	1.4363e-01	1.9105e+00
115	VPW000004	204.0828	204.4734	204.3407	1.0763e-01	1.4695e+00
116	VPW000005	272.4647	273.0506	272.6249	1.2283e-01	1.8253e+00
117	VPW000006	290.0579	290.6438	290.3233	1.4095e-01	1.9211e+00
118	IPW000001	1066.7306	1074.5399	1069.9717	1.7467e+00	1.1707e+01
119	IPW000002	2467.2302	2478.9377	2472.2256	2.6197e+00	2.1144e+01
120	IPW000003	2490.1499	2495.9998	2493.1531	1.2588e+00	2.1296e+01
121	IPW000004	732.7317	734.1965	733.4252	3.5691e-01	6.1295e+00
122	IPW000005	484.4955	485.9602	485.1987	3.9652e-01	4.3235e+00
123	IPW000006	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	IHT000001	245.3200	248.2497	246.6872	5.7993e-01	4.7849e+00
129	IHT000002	252.4940	255.2283	253.8261	5.9802e-01	4.8221e+00
130	IHT000003	254.9655	257.8951	256.0944	6.4753e-01	4.8341e+00
131	IHT000004	249.9361	252.4752	251.1003	6.1632e-01	4.8078e+00
132	IHT000005	247.6262	250.1653	248.8331	5.8085e-01	4.7960e+00
133	IHT000006	241.5753	243.7237	242.7276	5.6669e-01	4.7646e+00
134	IHT000007	251.5024	253.4556	252.6663	4.9436e-01	4.8160e+00
135	IHT000008	248.5201	250.6686	249.7194	4.8006e-01	4.8006e+00
136	IHT000009	248.5089	250.6573	249.7588	5.1599e-01	4.8008e+00
137	IHT000010	80.2096	82.7486	81.6588	6.0758e-01	4.1805e+00
138	IHT000011	248.8619	251.4010	250.2995	6.2110e-01	4.8036e+00
139	IHT000012	244.7191	247.4534	245.9690	6.4235e-01	4.7812e+00
140	IHT000013	177.7344	180.2734	178.9883	6.5920e-01	4.4737e+00
141	IHT000014	245.3351	248.0694	246.8740	6.7039e-01	4.7859e+00
142	IHT000015	183.4886	185.8323	184.6605	6.1130e-01	4.4967e+00
143	IHT000016	170.1622	172.7013	171.6270	6.1416e-01	4.4447e+00
144	IHT000017	204.8753	207.6097	206.2229	6.1034e-01	4.5894e+00
145	IHT000018	206.5730	209.5027	207.8153	6.4809e-01	4.5966e+00
146	IHT000019	200.3531	202.6968	201.4430	6.0886e-01	4.5681e+00
147	IHT000020	206.3927	208.5412	207.6309	6.2591e-01	4.5958e+00
148	IHT000021	-3.0086	-0.0789	-1.3679	8.0287e-01	4.1000e+00
149	IHT000022	177.2348	179.7739	178.6293	6.2641e-01	4.4722e+00
150	IHT000023	201.2395	204.1692	202.8643	6.9971e-01	4.5744e+00
151	IHT000024	165.4710	168.5960	167.1391	6.6170e-01	4.4276e+00
152	IHT000025	200.0564	203.1814	201.7517	7.0525e-01	4.5695e+00
153	IHT000026	202.9823	205.9120	204.4394	6.7452e-01	4.5814e+00
154	IHT000027	173.0018	176.1268	174.6503	6.6282e-01	4.4565e+00
155	IHT000028	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

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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	1.7678e-01	1.9245e+00
30	EMPTY	39.3761	40.2940	39.8168	2.2638e-01	1.9011e+00
31	TAFO50136	126.1511	128.0786	127.1496	5.3773e-01	1.9022e+00
32	TAFO70136	143.4063	146.4027	144.8895	6.8361e-01	1.9038e+00
33	TAFO80136	224.7419	232.1699	229.2585	1.5374e+00	1.9170e+00
34	TAFO90136	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

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#	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	PANO20136	0.0089	18.7009	9.9912	3.6362e+00	8.7036e-01
81	PANO50136	7.9777	25.9830	16.4616	4.3181e+00	1.6805e+00
82	PANO70136	-10.9215	11.5852	1.7891	4.4590e+00	8.7001e-01
83	PANO80136	-5.4872	15.1885	5.4976	4.8427e+00	8.7011e-01
84	PANO90136	-13.1753	27.4131	0.3699	1.0606e+01	8.7000e-01
85	PANI00136	2.2288	45.4875	23.3744	1.0856e+01	8.7196e-01
86	PANI05136	-7.5494	17.4750	4.7934	5.5797e+00	8.7008e-01
87	PANI10136	-7.2222	22.8377	6.1339	5.7070e+00	8.7014e-01
88	PANI15136	0.1460	24.7890	8.6436	6.0914e+00	8.7027e-01
89	PANI20136	-3.2387	13.3171	7.8880	3.1196e+00	8.7022e-01
90	PANI25136	3.9622	22.5779	12.3500	4.0967e+00	8.7055e-01
91	PANI30136	4.2249	17.5764	9.6860	3.3749e+00	8.7034e-01
92	PANI20048	15.6654	48.9295	23.4763	6.5161e+00	8.7198e-01
93	PANI30048	4.7539	13.5277	8.8539	2.4288e+00	8.7028e-01
94	PANI20224	10.7517	28.0704	18.1796	3.8367e+00	8.7119e-01
95	PANI30224	9.6881	19.8352	15.6070	2.3450e+00	8.7087e-01
96	PANI20312	7.0266	27.0156	17.6162	4.3209e+00	8.7111e-01
97	PANI30312	2.8288	17.1721	10.8519	3.1974e+00	8.7042e-01
98	PAB000136	39.9534	40.6401	40.2848	1.5953e-01	5.8868e-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

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#	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	PFH000001	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	PFH000002	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	-0.0295	-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

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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

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#	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	TAP020136	102.1096	104.8223	103.5731	6.7184e-01	1.9008e+00
58	TAP120312	210.0588	212.2638	211.0656	4.3794e-01	1.9134e+00
59	TAP130312	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.4704	40.8132	40.2419	3.1912e-01	7.5672e-01
102	PRV0000001	19.7186	19.9627	19.8406	3.4877e-02	7.5164e-01
103	PSR0000001	37.0031	37.3693	37.1544	7.2155e-02	7.5573e-01
104	PFM0000001	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	PFM0000002	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	VPW0000001	198.7042	199.2901	198.8994	1.3087e-01	1.4423e+00
113	VPW0000002	232.9139	233.3046	233.0273	1.0507e-01	1.6158e+00
114	VPW0000003	288.6381	289.2240	288.9504	1.2478e-01	1.9136e+00
115	VPW0000004	204.4734	205.0593	204.7314	1.5505e-01	1.4714e+00
116	VPW0000005	272.6600	273.6366	273.0898	2.0120e-01	1.8278e+00
117	VPW0000006	290.6438	291.2297	290.8390	1.6269e-01	1.9239e+00
118	IPW0000001	1039.3977	1049.1594	1044.6689	2.3084e+00	1.1564e+01
119	IPW0000002	2492.5967	2502.3530	2498.3713	2.2287e+00	2.1335e+01
120	IPW0000003	2513.5498	2519.3999	2517.0215	1.4363e+00	2.1471e+01
121	IPW0000004	724.4309	729.3137	726.7846	1.7775e+00	6.0800e+00
122	IPW0000005	483.5191	485.4720	484.4858	4.1251e-01	4.3185e+00
123	IPW0000006	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	IHT0000001	244.1481	247.6637	246.0466	7.7227e-01	4.7816e+00
129	IHT0000002	251.5174	254.6424	253.0995	7.1599e-01	4.8183e+00
130	IHT0000003	253.7936	256.7233	255.3679	7.7062e-01	4.8302e+00
131	IHT0000004	248.7643	251.6940	250.2956	7.7961e-01	4.8036e+00
132	IHT0000005	246.6496	249.3840	247.9971	6.9391e-01	4.7917e+00
133	IHT0000006	240.5987	243.3331	242.0674	7.4997e-01	4.7613e+00
134	IHT0000007	250.1352	253.0649	251.9866	7.3741e-01	4.8125e+00
135	IHT0000008	247.5436	250.2779	249.2194	7.2339e-01	4.7980e+00
136	IHT0000009	247.5323	250.4620	249.1963	7.5308e-01	4.7979e+00
137	IHT0000010	79.6236	82.9440	81.2916	6.8596e-01	4.1798e+00
138	IHT0000011	248.6666	251.5963	250.0378	6.2700e-01	4.8023e+00
139	IHT0000012	244.3284	247.0628	245.6331	5.0754e-01	4.7795e+00
140	IHT0000013	177.5391	180.0781	178.7109	5.0068e-01	4.4726e+00
141	IHT0000014	245.3351	247.4835	246.3623	4.5985e-01	4.7832e+00
142	IHT0000015	183.2933	185.6370	184.3089	4.9599e-01	4.4952e+00
143	IHT0000016	170.1622	172.5060	171.2755	4.9795e-01	4.4434e+00
144	IHT0000017	203.7034	207.2191	205.5276	6.2091e-01	4.5863e+00
145	IHT0000018	205.9871	209.1121	207.3857	6.7469e-01	4.5947e+00
146	IHT0000019	199.9624	202.6968	201.1852	5.8635e-01	4.5670e+00
147	IHT0000020	206.0021	208.3458	207.3419	5.6910e-01	4.5945e+00
148	IHT0000021	-3.0086	-0.0789	-1.3484	7.0061e-01	4.1000e+00
149	IHT0000022	177.4301	179.3833	178.3637	5.1944e-01	4.4712e+00
150	IHT0000023	201.6301	203.7786	202.7276	5.5508e-01	4.5738e+00
151	IHT0000024	165.6663	168.0101	166.9828	5.4363e-01	4.4270e+00
152	IHT0000025	200.2517	202.7907	201.5954	5.6996e-01	4.5688e+00
153	IHT0000026	202.9823	205.7167	204.2675	5.9724e-01	4.5807e+00
154	IHT0000027	173.0018	175.5409	174.3651	5.7248e-01	4.4554e+00
155	IHT0000028	175.3192	178.2489	176.7802	7.1598e-01	4.4649e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	201.2996	204.2293	202.8192	7.2145e-01	4.5742e+00
157	IHT0000030	205.0594	208.5750	206.6962	7.6095e-01	4.5915e+00
158	IHT0000031	201.7353	205.4462	203.4541	7.6819e-01	4.5770e+00
159	IHT0000032	204.5936	208.3045	206.1562	7.5696e-01	4.5891e+00
160	IHT0000033	204.4208	208.1318	206.0615	7.6106e-01	4.5887e+00
161	IHT0000034	180.0706	183.0003	181.3480	6.4260e-01	4.4832e+00
162	IHT0000035	237.3949	240.1292	238.7229	5.9057e-01	4.7444e+00
163	IHT0000036	177.7607	180.1044	179.1630	6.0835e-01	4.4744e+00

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Velocity 1 = 13.0557 (ft/sec) (+/- 1.9266 %)
 Velocity 2 = 13.0307 (ft/sec) (+/- 1.7071 %)
 Pressure drop = 1.6058 (psi)
 Tsat in = 268.0435 (deg F) Tsat 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	TRF0000001	82.7639	83.3996	83.1114	1.9029e-01	1.9001e+00
1	TRF0000002	83.1037	83.5252	83.3271	1.5594e-01	1.9001e+00
2	TFM0000001	86.3901	87.3351	86.8033	2.1162e-01	1.9002e+00
3	TIN0000001	85.9438	86.5766	86.2707	1.4939e-01	1.9002e+00
4	TRV0000001	87.9565	89.1096	88.4122	2.3044e-01	1.9002e+00
5	TSR0000001	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	TWT020000	203.4707	204.7257	204.1369	3.0160e-01	1.9121e+00
25	TWT070000	243.8684	245.8515	244.8986	4.8681e-01	1.9205e+00
26	TWT100000	269.8745	270.9815	270.4886	2.7282e-01	1.9269e+00
27	TWT120000	458.1755	458.6032	458.4065	1.1097e-01	1.9990e+00
28	TWT125000	93.7841	94.7231	94.1833	2.1526e-01	1.9004e+00
29	TWT130000	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

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#	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	3.6475e-01	1.9273e+00
52	TNR130000	142.2762	144.5802	143.4047	4.5615e-01	1.9036e+00
53	TSI0000001	59.1966	60.2705	59.6283	2.0989e-01	1.9001e+00
54	TSI0000002	74.9628	76.3400	75.6903	3.1659e-01	1.9000e+00
55	TSO0000001	56.2371	57.1034	56.6161	1.9945e-01	1.9001e+00
56	TSO0000002	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	2.6655e-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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.4704	40.6911	40.0686	3.5845e-01	7.5666e-01
102	PRV000001	19.4744	19.5965	19.5892	2.9284e-02	7.5160e-01
103	PSR000001	38.1017	38.2238	38.1456	5.9189e-02	7.5604e-01
104	PFM000001	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	PFM000002	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	VPW000001	198.8995	199.2901	199.1338	1.0440e-01	1.4435e+00
113	VPW000002	232.9139	233.3046	233.1562	1.0106e-01	1.6165e+00
114	VPW000003	288.8334	289.4193	289.1497	1.3606e-01	1.9147e+00
115	VPW000004	204.6687	205.0593	204.7665	1.1334e-01	1.4716e+00
116	VPW000005	272.6600	273.4413	273.1445	1.4890e-01	1.8281e+00
117	VPW000006	290.6438	291.2297	290.9952	1.2478e-01	1.9247e+00
118	IPW000001	1066.7306	1074.5399	1070.4008	2.3547e+00	1.1710e+01
119	IPW000002	2434.0586	2455.5225	2439.5225	6.9297e+00	2.0905e+01
120	IPW000003	2482.3499	2494.0498	2487.7710	2.5921e+00	2.1257e+01
121	IPW000004	731.7551	733.7083	732.3021	6.2109e-01	6.1211e+00
122	IPW000005	482.0544	484.0073	482.9920	5.2045e-01	4.3080e+00
123	IPW000006	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	IHT000001	244.9294	247.4684	245.9138	4.9906e-01	4.7809e+00
129	IHT000002	252.1033	254.6424	252.9159	5.1503e-01	4.8173e+00
130	IHT000003	254.3795	256.7233	255.2819	5.1432e-01	4.8298e+00
131	IHT000004	249.1549	251.8893	250.1667	5.3041e-01	4.8030e+00
132	IHT000005	246.8449	249.3840	247.7784	5.0731e-01	4.7906e+00
133	IHT000006	240.9893	243.1378	241.8174	4.8256e-01	4.7600e+00
134	IHT000007	250.7212	252.8696	251.7171	4.4512e-01	4.8110e+00
135	IHT000008	247.9342	249.6920	248.9343	4.1879e-01	4.7965e+00
136	IHT000009	248.1182	249.8760	248.9229	4.2980e-01	4.7965e+00
137	IHT000010	79.6236	82.1627	80.9244	5.6718e-01	4.1791e+00
138	IHT000011	248.6666	250.8150	249.7722	5.3468e-01	4.8009e+00
139	IHT000012	243.9378	246.8675	245.4612	5.7453e-01	4.7786e+00
140	IHT000013	177.3438	179.6875	178.6445	4.8905e-01	4.4723e+00
141	IHT000014	245.1397	247.2882	246.3545	4.9801e-01	4.7832e+00
142	IHT000015	183.0979	184.8558	184.1917	4.3225e-01	4.4947e+00
143	IHT000016	170.1622	172.1154	171.3849	4.4784e-01	4.4438e+00
144	IHT000017	204.4847	206.8284	205.6526	5.9515e-01	4.5869e+00
145	IHT000018	206.3777	208.9168	207.4013	5.9915e-01	4.5947e+00
146	IHT000019	199.7671	202.1109	201.0523	5.8005e-01	4.5664e+00
147	IHT000020	206.0021	208.5412	207.1700	5.7924e-01	4.5937e+00
148	IHT000021	-2.6179	0.1164	-1.4422	7.0087e-01	4.1000e+00
149	IHT000022	177.0395	179.1879	178.2817	5.0341e-01	4.4708e+00
150	IHT000023	201.6301	203.5833	202.4893	5.5102e-01	4.5728e+00
151	IHT000024	165.8616	168.0101	166.7328	5.2082e-01	4.4261e+00
152	IHT000025	200.6423	202.7907	201.4235	5.5383e-01	4.5681e+00
153	IHT000026	202.9823	205.5213	204.0917	5.7242e-01	4.5799e+00
154	IHT000027	173.1971	175.5409	174.2558	5.6647e-01	4.4549e+00
155	IHT000028	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

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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	TFH000001	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

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#	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	1.9268	6.9053e-04	0.0000e+00
68	EMPTY	1.9336	1.9434	1.9388	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	4.6042e-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	38.9616	4.5156e-02	5.8810e-01

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#	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	7.4875e-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	6.2649e-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

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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	TRP000001	82.5519	83.1877	82.9419	1.5052e-01	1.9001e+00
1	TRP000002	82.8929	83.3145	83.1459	1.1268e-01	1.9001e+00
2	TRP000001	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	TRO020136	116.2883	120.7046	118.5946	8.4208e-01	1.9016e+00
7	TRO050136	206.3888	208.1092	207.3599	3.3710e-01	1.9127e+00
8	TRO070136	204.9533	206.7892	205.9392	5.2079e-01	1.9124e+00
9	TRO080136	247.9065	249.4857	248.6910	3.3530e-01	1.9214e+00
10	TRO090136	261.1841	263.1290	262.3589	4.0405e-01	1.9248e+00
11	TRO100136	255.7062	257.7520	256.7256	4.6801e-01	1.9233e+00
12	TRO105136	261.3242	262.5333	261.7484	2.5831e-01	1.9246e+00
13	TRO110136	94.9186	95.5419	95.2799	1.6156e-01	1.9004e+00
14	TRO115136	263.3014	264.6933	263.9548	2.7162e-01	1.9252e+00
15	TRO120136	289.7070	290.4389	290.0108	1.6780e-01	1.9323e+00
16	TRO125136	266.8759	268.0773	267.5160	2.3441e-01	1.9261e+00
17	TRO130136	279.3300	280.5079	279.8962	2.1720e-01	1.9295e+00
18	TRO130048	120.8027	121.7229	121.3013	2.6565e-01	1.9018e+00
19	TRO130048	292.5525	293.2805	292.9088	1.5815e-01	1.9332e+00
20	TRO120224	285.3298	286.7940	286.9948	3.1119e-01	1.9312e+00
21	TRO130224	268.8270	270.1102	269.4433	2.5987e-01	1.9266e+00
22	TRO120312	273.0116	274.4884	273.7316	4.0195e-01	1.9278e+00
23	TRO130312	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	1.9998e+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	TAP050136	139.7678	142.2757	141.1370	4.9497e-01	1.9034e+00
32	TAP070136	162.0606	164.5219	163.1364	4.3764e-01	1.9058e+00
33	TAP080136	254.3315	256.1808	255.1384	4.6599e-01	1.9230e+00
34	TAP090136	94.9596	96.0030	95.5313	2.7882e-01	1.9004e+00
35	TAP100136	195.7432	197.1004	196.4449	3.1182e-01	1.9107e+00
36	TAP105136	201.3548	202.5041	201.9055	2.4868e-01	1.9117e+00
37	TAP110136	209.0636	210.0197	209.4692	2.4093e-01	1.9131e+00
38	TAP115136	215.4589	216.8884	216.2446	2.5442e-01	1.9144e+00
39	TAP120136	254.2733	255.8495	255.0822	3.4904e-01	1.9229e+00
40	TAP125136	226.8463	228.2571	227.5842	3.3194e-01	1.9167e+00
41	TAP130136	232.5327	233.6632	233.1123	2.4489e-01	1.9178e+00
42	TAP120048	226.7182	228.6265	227.6079	4.1882e-01	1.9167e+00
43	TAP130048	255.0439	257.9282	256.4136	6.8286e-01	1.9233e+00
44	TAP120224	215.9106	217.3412	216.7691	2.9605e-01	1.9145e+00
45	TAP130224	224.6312	225.9673	225.2382	2.5921e-01	1.9162e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0802	2.1165e-01	1.9018e+00
47	EMPTY	39.6057	40.0646	39.9637	1.2405e-01	1.9011e+00
48	TAI130048	272.9668	273.9805	273.4282	1.2773e-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	1.9288e+00
52	TAR130000	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	TAP020136	103.3641	106.2832	105.2620	5.9486e-01	1.9008e+00
58	TAP120312	217.4273	219.5268	218.5381	4.7953e-01	1.9148e+00
59	TAP130312	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	2.6108e-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	6.5353e-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	1.8882e-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	8.7800e-01
81	PAN050136	-11.4010	8.1383	-0.4787	4.2779e+00	1.6800e+00
82	PAN070136	-24.6544	5.5580	-7.4791	7.2881e+00	8.7828e-01
83	PAN080136	3.2866	36.9323	14.7765	7.8619e+00	8.7878e-01
84	PAN090136	-0.9028	11.3151	2.8403	4.5080e+00	8.7883e-01
85	PAN100136	6.8827	19.4712	12.5239	3.0122e+00	8.7856e-01
86	PAN105136	-2.6666	4.7339	1.1969	1.4881e+00	8.7801e-01
87	PAN110136	1.6279	5.9767	3.1553	9.5185e-01	8.7804e-01
88	PAN115136	0.1460	3.5030	2.5722	5.2588e-01	8.7802e-01
89	PAN120136	2.5596	5.3062	3.5255	4.7323e-01	8.7804e-01
90	PAN125136	2.6652	4.0385	3.2008	3.0885e-01	8.7804e-01
91	PAN130136	3.7672	4.4538	4.0494	1.6832e-01	8.7806e-01
92	PAN120048	0.9406	2.6954	1.8806	4.8851e-01	8.7801e-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	8.7810e-01
95	PAN130224	6.4837	7.6281	6.9812	2.8640e-01	8.7818e-01
96	PAN120312	11.3753	17.7840	12.9714	9.8513e-01	8.7860e-01
97	PAN130312	7.9405	9.3901	8.7050	3.7519e-01	8.7827e-01
98	PAN000136	39.9076	40.8689	40.3700	1.9493e-01	5.8872e-01
99	PAN100136	39.2237	39.5441	39.3500	7.5451e-02	5.8828e-01
100	PAN125136	38.8521	39.0352	38.9410	4.7527e-02	5.8811e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.4704	40.6911	40.1150	3.2907e-01	7.5668e-01
102	PRV0000001	19.5965	19.7186	19.6478	6.0861e-02	7.5161e-01
103	PSR0000001	38.1017	38.3458	38.2115	6.6404e-02	7.5606e-01
104	PTH0000001	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	PTH0000002	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	VPW0000001	198.8995	199.2901	199.1338	1.1161e-01	1.4435e+00
113	VPW0000002	232.9139	233.3046	233.1679	9.8648e-02	1.6166e+00
114	VPW0000003	289.2240	289.8099	289.4895	1.2327e-01	1.9165e+00
115	VPW0000004	204.4734	205.2546	204.8251	1.6269e-01	1.4719e+00
116	VPW0000005	273.0506	273.4413	273.2773	1.0705e-01	1.8288e+00
117	VPW0000006	291.0344	291.4250	291.1788	1.2359e-01	1.9257e+00
118	IPW0000001	1056.9689	1062.8259	1058.9215	1.5777e+00	1.1644e+01
119	IPW0000002	2453.5713	2461.3765	2457.1616	1.5945e+00	2.1034e+01
120	IPW0000003	2501.8499	2509.6499	2506.6868	1.5877e+00	2.1395e+01
121	IPW0000004	725.8958	727.3606	726.5405	4.7760e-01	6.0781e+00
122	IPW0000005	481.0779	482.0544	481.5467	3.2654e-01	4.2979e+00
123	IPW0000006	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	INT0000001	244.5387	247.2731	245.7536	6.0912e-01	4.7801e+00
129	INT0000002	251.7127	254.0565	252.7519	5.4454e-01	4.8165e+00
130	INT0000003	253.7936	256.1373	254.9343	5.7502e-01	4.8280e+00
131	INT0000004	248.7643	251.1080	249.9323	5.9253e-01	4.8017e+00
132	INT0000005	246.4543	248.6028	247.5362	5.5272e-01	4.7893e+00
133	INT0000006	240.4034	243.1378	241.6807	5.8289e-01	4.7593e+00
134	INT0000007	250.5259	252.8696	251.4241	5.5243e-01	4.8095e+00
135	INT0000008	247.7389	249.8873	248.6999	5.0043e-01	4.7953e+00
136	INT0000009	247.7276	249.8760	248.6768	5.3526e-01	4.7952e+00
137	INT0000010	79.4283	81.9674	80.7056	6.0901e-01	4.1787e+00
138	INT0000011	248.4713	251.0103	249.6394	5.7248e-01	4.8002e+00
139	INT0000012	244.1331	246.4769	245.2073	5.4426e-01	4.7773e+00
140	INT0000013	177.3438	179.8828	178.6016	5.6381e-01	4.4721e+00
141	INT0000014	244.9444	247.6788	246.3037	5.7176e-01	4.7829e+00
142	INT0000015	182.9026	186.0276	184.2581	6.5365e-01	4.4950e+00
143	INT0000016	169.9669	173.0919	171.3966	6.5962e-01	4.4438e+00
144	INT0000017	204.2894	207.2191	205.6565	7.4137e-01	4.5869e+00
145	INT0000018	205.7918	208.7215	207.4403	6.8930e-01	4.5949e+00
146	INT0000019	199.3765	202.8921	200.8219	6.3748e-01	4.5654e+00
147	INT0000020	205.6115	208.9318	206.9669	6.3676e-01	4.5928e+00
148	INT0000021	-3.3992	0.5071	-1.5984	7.3746e-01	4.1000e+00
149	INT0000022	176.6489	179.5786	177.9887	5.9190e-01	4.4697e+00
150	INT0000023	201.0442	203.5833	202.2862	5.3344e-01	4.5719e+00
151	INT0000024	165.4710	167.6195	166.5102	5.0291e-01	4.4252e+00
152	INT0000025	200.2517	202.2048	201.2439	5.5079e-01	4.5673e+00
153	INT0000026	202.7870	204.9354	203.9472	5.5861e-01	4.5792e+00
154	INT0000027	173.1971	175.3456	174.1698	5.4461e-01	4.4546e+00
155	INT0000028	175.3192	178.4442	176.8701	6.8164e-01	4.4652e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT0000029	201.2996	204.2293	202.7888	6.0988e-01	4.5741e+00
157	INT0000030	204.8640	208.1844	206.6376	6.3361e-01	4.5913e+00
158	INT0000031	201.9306	205.2509	203.4580	6.3343e-01	4.5771e+00
159	INT0000032	204.5936	207.7186	206.6624	6.1667e-01	4.5887e+00
160	INT0000033	204.4288	207.5458	205.9873	6.0166e-01	4.5884e+00
161	INT0000034	188.2659	182.6097	181.2894	4.8417e-01	4.4829e+00
162	INT0000035	237.5982	239.9339	238.7464	5.2473e-01	4.7445e+00
163	INT0000036	178.1513	180.4950	179.2334	5.2528e-01	4.4746e+00

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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	TRF000001	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	TRO020136	155.6014	162.2754	159.1738	2.2890e+00	1.9053e+00
7	TRO050136	206.3912	207.7271	207.1496	3.0146e-01	1.9126e+00
8	TRO070136	204.7608	206.8857	205.8891	4.9619e-01	1.9124e+00
9	TRO080136	247.5327	249.0223	248.3814	3.4482e-01	1.9213e+00
10	TRO090136	260.7216	262.4814	261.6292	3.6868e-01	1.9246e+00
11	TRO100136	255.3342	257.1947	256.2570	4.6015e-01	1.9232e+00
12	TRO105136	260.6733	262.1611	261.4956	3.0775e-01	1.9245e+00
13	TRO110136	94.7118	95.3347	95.0231	1.5291e-01	1.9004e+00
14	TRO115136	262.7442	263.8584	263.3759	2.8004e-01	1.9250e+00
15	TRO120136	289.3409	290.3476	289.7220	1.7077e-01	1.9323e+00
16	TRO125136	269.1828	269.9216	269.5705	1.7595e-01	1.9266e+00
17	TRO130136	279.3263	280.2383	279.8305	2.1433e-01	1.9294e+00
18	TRO120048	120.8015	121.9272	121.3789	2.7233e-01	1.9018e+00
19	TRO130048	289.9146	290.7359	290.3636	2.1453e-01	1.9324e+00
20	TRO120224	284.8716	287.6161	285.7687	4.7237e-01	1.9311e+00
21	TRO130224	268.7340	269.8349	269.2746	2.7874e-01	1.9266e+00
22	TRO120312	272.0886	274.0269	272.9898	4.1463e-01	1.9276e+00
23	TRO130312	281.7640	282.7720	282.2443	2.5267e-01	1.9301e+00
24	TRO200000	205.4971	206.9425	206.3993	2.5890e-01	1.9125e+00
25	TRO700000	247.5510	249.1528	248.2372	3.7792e-01	1.9213e+00
26	TRO100000	273.4604	274.9318	274.1604	3.5024e-01	1.9279e+00
27	TRO120000	458.0045	458.4323	458.2340	9.2164e-02	1.9990e+00
28	TRO125000	97.5134	98.4496	97.9756	2.0023e-01	1.9005e+00
29	TRO130000	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	TAP050136	139.6684	142.1765	140.9121	6.2684e-01	1.9034e+00
32	TAP070136	162.1563	164.3264	163.1282	4.5293e-01	1.9058e+00
33	TAP080136	253.6830	256.2724	254.9530	6.4678e-01	1.9229e+00
34	TAP090136	93.9172	95.1694	94.6431	3.3799e-01	1.9004e+00
35	TAP100136	195.8400	197.0031	196.4681	2.8455e-01	1.9107e+00
36	TAP105136	201.2578	202.5019	201.8554	3.1656e-01	1.9117e+00
37	TAP110136	208.9675	209.9250	209.4231	2.7973e-01	1.9131e+00
38	TAP115136	215.4589	216.8895	216.1912	3.1838e-01	1.9143e+00
39	TAP120136	254.2733	255.6658	254.9670	3.3692e-01	1.9229e+00
40	TAP125136	226.6556	228.0692	227.4071	3.5271e-01	1.9166e+00
41	TAP130136	232.1531	233.2865	232.7654	2.8400e-01	1.9178e+00
42	TAP120048	223.9492	225.9550	224.6674	4.2165e-01	1.9160e+00
43	TAP130048	245.0514	249.5425	246.8602	1.1235e+00	1.9120e+00
44	TAP120224	215.8151	217.6268	216.5974	4.4556e-01	1.9144e+00
45	TAP130224	224.4402	225.3953	224.9291	2.5632e-01	1.9161e+00

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#	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	TRI130000	135.2415	137.0546	135.9306	3.2716e-01	1.9829e+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	TSD000001	56.4543	57.3205	56.8832	2.2290e-01	1.9001e+00
56	TSD000002	79.3677	80.0031	79.6388	1.9131e-01	1.9001e+00
57	TAP020136	103.6773	106.4906	105.2455	7.0426e-01	1.9008e+00
58	TAP120312	215.9945	218.1905	217.3507	5.5048e-01	1.9146e+00
59	TAP130312	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	2.1646e-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	8.7004e-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

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#	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	PFH000001	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	PFH000002	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

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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)
 Tsat in = 268.0880 (deg F) Tsat 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	TRF000001	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	TRO20000	210.0219	211.4635	210.7045	3.2324e-01	1.9133e+00
25	TRO70000	254.0450	256.3898	255.2361	5.0046e-01	1.9230e+00
26	TRO10000	283.1768	285.0045	284.0738	3.9701e-01	1.9306e+00
27	TRO12000	458.0045	458.4323	458.1809	8.7118e-02	1.9989e+00
28	TRO12500	93.3674	94.2012	93.8155	1.9195e-01	1.9004e+00
29	TRO13000	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

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#	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.4704	40.8132	40.1931	3.9677e-01	7.5670e-01
102	PRV0000001	19.7186	19.8406	19.7235	2.4164e-02	7.5162e-01
103	PSR0000001	37.2472	37.3693	37.3156	6.1209e-02	7.5578e-01
104	PFH0000001	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	PFH0000002	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	VPW0000001	199.0948	199.6807	199.2666	1.5605e-01	1.4441e+00
113	VPW0000002	232.9139	233.6952	233.2226	1.4812e-01	1.6169e+00
114	VPW0000003	289.4193	290.0052	289.7434	1.2853e-01	1.9179e+00
115	VPW0000004	204.6687	205.2546	204.8993	1.5124e-01	1.4722e+00
116	VPW0000005	273.0506	273.8319	273.3788	1.4466e-01	1.8294e+00
117	VPW0000006	291.2297	292.0110	291.5694	1.7114e-01	1.9278e+00
118	IPW0000001	1053.0642	1060.8735	1056.5394	1.5920e+00	1.1631e+01
119	IPW0000002	2475.0352	2492.5967	2481.4751	5.6063e+00	2.1211e+01
120	IPW0000003	2505.7498	2509.6499	2507.1934	1.2954e+00	2.1399e+01
121	IPW0000004	725.4075	730.7786	729.2552	1.4181e+00	6.0984e+00
122	IPW0000005	484.4955	485.9602	485.1596	3.3826e-01	4.3232e+00
123	IPW0000006	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	IHT0000001	244.1481	246.8825	245.7146	5.9646e-01	4.7799e+00
129	IHT0000002	251.1268	253.6658	252.7167	5.5525e-01	4.8163e+00
130	IHT0000003	253.2076	256.1373	254.9147	5.5777e-01	4.8279e+00
131	IHT0000004	248.9596	251.3033	250.0690	5.4596e-01	4.8024e+00
132	IHT0000005	246.4543	248.9934	247.7471	5.1128e-01	4.7904e+00
133	IHT0000006	240.7940	243.1378	241.7744	5.1219e-01	4.7598e+00
134	IHT0000007	250.5259	252.6743	251.6780	5.3416e-01	4.8108e+00
135	IHT0000008	247.7389	249.8873	248.8444	5.2141e-01	4.7961e+00
136	IHT0000009	247.5323	250.0714	248.6299	5.4375e-01	4.7950e+00
137	IHT0000010	78.6471	81.1861	80.0494	6.2973e-01	4.1774e+00
138	IHT0000011	247.8853	250.8150	249.4636	6.2245e-01	4.7993e+00
139	IHT0000012	243.7425	246.4769	245.1448	6.8081e-01	4.7770e+00
140	IHT0000013	177.3438	179.6875	178.6133	6.4265e-01	4.4722e+00
141	IHT0000014	244.7491	247.6788	246.2920	7.1491e-01	4.7829e+00
142	IHT0000015	182.7073	185.2464	184.2621	6.6376e-01	4.4950e+00
143	IHT0000016	169.9669	172.5060	171.4356	6.3041e-01	4.4440e+00
144	IHT0000017	203.5081	206.6331	205.2815	6.7870e-01	4.5852e+00
145	IHT0000018	205.5965	208.5261	207.2177	7.1382e-01	4.5939e+00
146	IHT0000019	199.7671	202.1109	200.7477	6.1825e-01	4.5651e+00
147	IHT0000020	206.0021	208.7365	207.0098	6.3914e-01	4.5930e+00
148	IHT0000021	-3.0086	0.3118	-1.6687	7.0477e-01	4.1000e+00
149	IHT0000022	177.0395	179.7739	178.0864	6.0716e-01	4.4701e+00
150	IHT0000023	201.2395	203.7786	202.3253	5.4413e-01	4.5720e+00
151	IHT0000024	165.4710	168.0101	166.6039	5.2793e-01	4.4256e+00
152	IHT0000025	200.4470	202.5954	201.2907	5.3879e-01	4.5675e+00
153	IHT0000026	202.9823	205.3260	203.9550	5.2272e-01	4.5793e+00
154	IHT0000027	172.8065	175.7362	174.3026	6.0825e-01	4.4551e+00
155	IHT0000028	175.7099	178.2489	176.7802	6.0777e-01	4.4649e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	201.2996	204.0340	202.5732	6.2170e-01	4.5731e+00
157	IHT0000030	205.0594	207.7937	206.5243	6.2297e-01	4.5908e+00
158	IHT0000031	201.9306	204.6650	203.3056	6.0227e-01	4.5764e+00
159	IHT0000032	204.3983	207.3280	205.9335	6.1131e-01	4.5881e+00
160	IHT0000033	204.4208	207.3505	205.8896	6.2170e-01	4.5879e+00
161	IHT0000034	179.8753	182.2190	181.1878	5.2205e-01	4.4825e+00
162	IHT0000035	237.1995	239.9339	238.5471	5.3270e-01	4.7435e+00
163	IHT0000036	177.7607	180.2997	179.0888	4.6855e-01	4.4741e+00

DEFECTIVE INSTRUMENTS FOR THE RIBBED GEOMETRY TEST SERIES

Series	Tests	Defective Instruments
9	Aug17_18 to Aug17_25	TAO120048 TAF070136 TRT120000 TAO020136 TAF080136 TRT125000 TAO070136 TAF090136 TRR130000 TAO080136 TAF120136 TAO110136 TAO125136 IHT000010 IHT000021 IHT000024 IHT000033

Chapter 18

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS

Test Geometry: Ribbed (4)
Test Series: 13
Test Date: August 17, 1990

TOTAL PRESSURE DROP (psi)

□ SERIES 13, 08/17/90 — UNHEATED, 08/14/90

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Aug17_26	26.08	20.31
Aug17_27	14.02	2.56
Aug17_28	6.03	-3.76
Aug17_29	4.01	-4.63
Aug17_30	3.59	-4.76
Aug17_31	3.44	-4.78

(c)

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F
Inlet pressure	40 psia
Wall heat flux	100 kBtu/hr-ft ²
Flux distribution	uniform
He saturation pressure	5 psig

NOTES:

- (a) Inlet velocity calculated from PFM000001
- (b) Pressure drop calculated from PAN000136
- (c) Shading notes test at minimum pressure drop

DEMAND CURVE AND DATA FOR SERIES 13 - RIBBED ANNULUS

SERIES 13, AUG17_31

RIBBED (4)

$\Phi = 100,700 \text{ Btu/hr-ft}^2$

$V_f = 3.44 \text{ ft/sec}$

$P_{He} = 5 \text{ psig}$

$P = 39.97 \text{ psia}$

$T = 86.95 \text{ }^\circ\text{F}$

$L = 12.83 \text{ ft}$

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Velocity 1 = 26.0797 (ft/sec) (+/- 1.6886 %)
 Velocity 2 = 13.4155 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 20.3128 (psi)
 Tsat in = 267.4751 (deg F) Tsat 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	TRF000001	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

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#	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	TSO0000001	56.2413	57.3230	56.7583	2.2007e-01	1.9001e+00
56	TSO0000002	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.3483	40.2028	39.7195	1.6719e-01	7.5654e-01
102	PRV000001	19.3524	19.4744	19.4598	4.0071e-02	7.5158e-01
103	PSR000001	17.3497	17.4718	17.4547	4.2787e-02	7.5127e-01
104	PFM000001	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	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	-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	VPW000001	101.6339	102.0245	101.8252	9.2456e-02	1.0146e+00
113	VPW000002	118.4608	119.0467	118.7967	1.5303e-01	1.0790e+00
114	VPW000003	146.8412	147.2318	147.0561	1.2633e-01	1.1978e+00
115	VPW000004	104.4734	105.0593	104.6492	1.5409e-01	1.0249e+00
116	VPW000005	139.0663	139.6522	139.2577	1.5020e-01	1.1637e+00
117	VPW000006	147.2844	148.0657	147.6984	1.6096e-01	1.2006e+00
118	IPW000001	568.8829	576.6923	572.2410	1.6753e+00	9.2761e+00
119	IPW000002	1276.9558	1286.7122	1281.3654	2.3917e+00	1.2965e+01
120	IPW000003	1302.5999	1308.4498	1305.3300	1.8053e+00	1.3113e+01
121	IPW000004	385.0755	387.0286	386.0228	6.3480e-01	3.6469e+00
122	IPW000005	253.5616	255.0263	254.0791	3.3319e-01	2.8335e+00
123	IPW000006	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	IHT000001	128.9137	131.0622	129.8004	4.6557e-01	4.3006e+00
129	IHT000002	132.3768	134.5252	133.4237	4.6815e-01	4.3116e+00
130	IHT000003	132.6998	134.8483	133.5630	4.3600e-01	4.3121e+00
131	IHT000004	130.7955	133.1393	131.7994	4.8006e-01	4.3066e+00
132	IHT000005	129.0715	131.6106	130.0832	4.6804e-01	4.3014e+00
133	IHT000006	124.3878	126.7315	125.1963	4.7843e-01	4.2869e+00
134	IHT000007	131.1899	133.3384	132.2720	4.5371e-01	4.3081e+00
135	IHT000008	129.7701	131.5279	130.8013	4.2871e-01	4.3036e+00
136	IHT000009	130.1495	132.1026	131.0986	4.5508e-01	4.3045e+00
137	IHT000010	-40.2982	-38.1498	-39.2474	5.3217e-01	4.1187e+00
138	IHT000011	130.1119	132.2603	131.1626	5.6344e-01	4.3047e+00
139	IHT000012	127.7269	130.0706	128.7191	6.2246e-01	4.2973e+00
140	IHT000013	91.6016	93.5547	92.5195	5.3416e-01	4.2031e+00
141	IHT000014	127.5616	129.5147	128.6319	4.9006e-01	4.2970e+00
142	IHT000015	95.2073	96.9651	96.0042	4.9417e-01	4.2109e+00
143	IHT000016	88.9122	90.6701	89.7990	4.8361e-01	4.1972e+00
144	IHT000017	105.6566	109.1722	107.1722	8.5505e-01	4.2378e+00
145	IHT000018	107.5496	109.8933	108.5028	5.8079e-01	4.2411e+00
146	IHT000019	103.8687	105.6265	104.8374	4.3933e-01	4.2319e+00
147	IHT000020	106.7833	108.7365	107.7013	4.5034e-01	4.2391e+00
148	IHT000021	-2.4226	0.1164	-1.3250	5.9174e-01	4.1000e+00
149	IHT000022	92.8598	94.6176	93.6880	4.1490e-01	4.2057e+00
150	IHT000023	104.7551	106.7083	105.5871	4.7484e-01	4.2338e+00
151	IHT000024	69.9632	71.9163	70.6741	4.7311e-01	4.1605e+00
152	IHT000025	105.1345	107.0876	106.0407	4.7311e-01	4.2349e+00
153	IHT000026	105.5213	107.4745	106.4706	4.8490e-01	4.2360e+00
154	IHT000027	90.3846	92.5330	91.3377	4.5273e-01	4.2005e+00
155	IHT000028	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	4.2444e+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

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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	TRF0000001	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	TAP050136	97.9416	98.9790	98.3816	2.0419e-01	1.9005e+00
32	TAP070136	103.4117	104.4456	104.0235	2.1791e-01	1.9008e+00
33	TAP080136	129.0157	130.0258	129.5681	2.5520e-01	1.9024e+00
34	TAP090136	81.6439	82.8045	82.3742	3.1726e-01	1.9001e+00
35	TAP100136	111.4941	112.3203	111.9239	1.8928e-01	1.9012e+00
36	TAP105136	112.9243	114.0498	113.4651	2.6957e-01	1.9013e+00
37	TAP110136	114.6860	115.6093	115.0676	1.9465e-01	1.9014e+00
38	TAP115136	117.0367	117.9590	117.5161	2.3459e-01	1.9015e+00
39	TAP120136	125.7186	126.4304	126.0687	1.5280e-01	1.9021e+00
40	TAP125136	119.4152	120.5356	120.0269	2.6999e-01	1.9017e+00
41	TAP130136	120.6357	121.2504	120.9963	1.6439e-01	1.9018e+00
42	TAP120048	119.3932	120.2170	119.9080	1.8941e-01	1.9017e+00
43	TAP130048	122.1958	122.8101	122.5440	1.6538e-01	1.9019e+00
44	TAP120224	117.0999	118.1250	117.6452	2.2740e-01	1.9015e+00
45	TAP130224	119.2000	119.7147	119.4059	1.3938e-01	1.9016e+00

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#	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	TSI0000001	58.1157	58.9766	58.5422	1.8316e-01	1.9001e+00
54	TSI0000002	84.0281	85.7089	84.9191	3.7967e-01	1.9001e+00
55	TSO0000001	56.3497	57.4318	56.8391	2.6070e-01	1.9001e+00
56	TSO0000002	63.7194	64.5770	64.1996	2.0233e-01	1.9000e+00
57	TAP020136	89.3045	90.2537	89.7221	2.3228e-01	1.9003e+00
58	TAP120312	117.1844	118.5186	117.8290	2.9321e-01	1.9015e+00
59	TAP130312	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	PAB0000136	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

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#	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	PPH000001	29.8391	30.6631	30.1357	1.9183e-01	5.0564e-01
105	PAM000136	67.7934	73.2866	70.9154	1.0532e+00	4.9232e+00
106	PPH000002	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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#	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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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	TRP000001	81.2794	81.9158	81.4661	1.8506e-01	1.9001e+00
1	TRP000002	81.4160	81.8382	81.6567	1.2799e-01	1.9001e+00
2	TRP000001	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	203.7697	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	TAP050136	114.9321	115.8550	115.4592	2.1522e-01	1.9014e+00
32	TAP070136	125.5814	126.6963	126.1881	2.6775e-01	1.9021e+00
33	TAP080136	177.6288	179.1886	178.4467	3.2166e-01	1.9079e+00
34	TAP090136	81.3276	82.5939	82.0173	3.1256e-01	1.9001e+00
35	TAP100136	145.8058	147.0110	146.4346	2.6995e-01	1.9039e+00
36	TAP105136	149.0414	150.1364	149.6242	2.5407e-01	1.9043e+00
37	TAP110136	152.8184	154.0125	153.4655	2.5152e-01	1.9047e+00
38	TAP115136	158.9143	159.8079	159.4085	2.3758e-01	1.9054e+00
39	TAP120136	179.4370	180.3142	179.8022	2.0548e-01	1.9081e+00
40	TAP125136	165.2033	166.5786	165.8107	2.6598e-01	1.9062e+00
41	TAP130136	168.0224	168.8114	168.3519	1.8872e-01	1.9065e+00
42	TAP120048	164.0589	165.4522	164.7613	2.8317e-01	1.9060e+00
43	TAP130048	170.8855	171.7732	171.3526	2.4116e-01	1.9069e+00
44	TAP120224	159.8160	161.0067	160.4649	2.4159e-01	1.9055e+00
45	TAP130224	165.0243	165.7199	165.3404	1.4983e-01	1.9061e+00

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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	TBI130000	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	2.8188e-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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8366	40.2028	40.0173	8.2682e-02	7.5644e-01
102	PRV0000001	19.7186	19.9627	19.8406	3.4877e-02	7.5164e-01
103	PSR0000001	43.7169	43.9611	43.8512	5.6508e-02	7.5797e-01
104	PFM0000001	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	PFM0000002	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	VPW0000001	101.6339	102.0245	101.8760	1.2200e-01	1.0148e+00
113	VPW0000002	119.0467	119.4374	119.1288	1.0507e-01	1.0803e+00
114	VPW0000003	147.2318	147.6225	147.4311	1.2156e-01	1.1994e+00
115	VPW0000004	104.6687	105.0593	104.9149	1.2974e-01	1.0258e+00
116	VPW0000005	139.4569	140.0428	139.7030	1.2974e-01	1.1656e+00
117	VPW0000006	148.0657	148.6516	148.3468	1.3760e-01	1.2035e+00
118	IPW0000001	559.1212	566.9306	564.0022	1.9424e+00	9.2446e+00
119	IPW0000002	1276.9558	1294.5172	1282.6923	4.5533e+00	1.2973e+01
120	IPW0000003	1302.5999	1312.3499	1306.7336	2.8035e+00	1.3122e+01
121	IPW0000004	379.7044	386.5403	381.4329	1.1846e+00	3.6166e+00
122	IPW0000005	252.5851	253.5616	253.0537	3.4112e-01	2.8278e+00
123	IPW0000006	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	INT0000001	128.1325	130.6716	129.2692	6.0963e-01	4.2990e+00
129	INT0000002	131.7908	134.1346	132.8768	5.5265e-01	4.3099e+00
130	INT0000003	131.9186	134.2623	133.1333	5.8963e-01	4.3107e+00
131	INT0000004	130.2096	132.7486	131.4009	5.7487e-01	4.3054e+00
132	INT0000005	128.6809	131.0246	129.7628	5.1329e-01	4.3004e+00
133	INT0000006	123.8018	126.3409	124.8018	5.0631e-01	4.2857e+00
134	INT0000007	130.7993	133.1431	131.7524	5.0477e-01	4.3065e+00
135	INT0000008	129.3795	131.7233	130.3052	5.2765e-01	4.3021e+00
136	INT0000009	129.5635	132.2979	130.7002	5.3188e-01	4.3033e+00
137	INT0000010	-41.0795	-38.7357	-39.6771	5.5900e-01	4.1192e+00
138	INT0000011	129.7213	132.0650	131.0181	5.3198e-01	4.3043e+00
139	INT0000012	127.3362	129.6800	128.5472	5.0068e-01	4.2968e+00
140	INT0000013	91.0156	93.3594	92.1953	4.8802e-01	4.2024e+00
141	INT0000014	127.3663	129.5147	128.3624	4.6564e-01	4.2962e+00
142	INT0000015	94.8167	96.7698	95.8440	4.4784e-01	4.2105e+00
143	INT0000016	88.3263	90.4747	89.4435	4.7028e-01	4.1964e+00
144	INT0000017	105.2659	108.9769	107.1527	9.6300e-01	4.2377e+00
145	INT0000018	106.9636	109.6980	108.4168	5.6104e-01	4.2409e+00
146	INT0000019	103.4781	106.2124	104.6069	4.9645e-01	4.2313e+00
147	INT0000020	106.5880	108.9318	107.4826	5.2213e-01	4.2385e+00
148	INT0000021	-2.6179	0.1164	-1.2859	6.1850e-01	4.1000e+00
149	INT0000022	92.4692	94.4223	93.3716	4.8148e-01	4.2050e+00
150	INT0000023	104.5598	106.5129	105.3684	4.3764e-01	4.2332e+00
151	INT0000024	69.7679	71.5257	70.4944	4.2506e-01	4.1602e+00
152	INT0000025	105.1345	106.6970	105.7751	4.1953e-01	4.2342e+00
153	INT0000026	105.5213	107.0838	106.2401	4.3304e-01	4.2354e+00
154	INT0000027	89.9940	91.7518	90.9002	4.0387e-01	4.1996e+00
155	INT0000028	91.5302	93.4833	92.3779	5.8075e-01	4.2028e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT0000029	105.0105	107.3543	105.9324	6.0237e-01	4.2346e+00
157	INT0000030	107.4031	109.5515	108.2938	5.4270e-01	4.2406e+00
158	INT0000031	105.8368	107.9853	106.6689	5.2171e-01	4.2365e+00
159	INT0000032	107.1326	109.0858	107.9530	4.7679e-01	4.2397e+00
160	INT0000033	107.1552	109.1083	107.9053	4.6414e-01	4.2396e+00
161	INT0000034	93.7425	95.5003	94.6683	4.1349e-01	4.2079e+00
162	INT0000035	123.9183	125.6761	124.8988	4.2221e-01	4.2860e+00
163	INT0000036	92.4091	94.3622	93.3271	4.3270e-01	4.2049e+00

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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	TRF000001	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	TAT020000	180.6013	182.2687	181.4353	3.4211e-01	1.9083e+00
25	TAT070000	219.0202	220.3627	219.7700	2.9613e-01	1.9151e+00
26	TAT100000	243.0408	244.2588	243.6383	2.8132e-01	1.9202e+00
27	TAT120000	456.8074	457.2352	457.0420	1.0772e-01	1.9984e+00
28	TAT125000	90.6507	91.3821	91.0094	1.8408e-01	1.9003e+00
29	TAT130000	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

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#	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	TAF130048	254.1479	256.3843	255.2681	4.7497e-01	1.9230e+00
49	TAF130136	257.5317	258.7404	258.1141	2.9353e-01	1.9237e+00
50	TAF130224	256.9439	258.2498	257.6176	2.7392e-01	1.9236e+00
51	TAF130312	248.9904	250.2072	249.6474	2.8719e-01	1.9216e+00
52	TAF130000	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	PPH000001	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	PPH000002	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	-2.8179	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 = 3.5851 (ft/sec) (+/- 13.2954 %)
 Velocity 2 = 3.5503 (ft/sec) (+/- 5.1246 %)
 Pressure drop = -4.7620 (psi)
 Tsat in = 267.9691 (deg F) Tsat 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	TRF000001	81.0672	81.7037	81.3473	1.9849e-01	1.9001e+00
1	TRF000002	81.4160	81.8382	81.5596	1.4423e-01	1.9001e+00
2	TFM000001	86.8003	87.5365	87.2041	1.6066e-01	1.9002e+00
3	TIN000001	86.0041	86.5752	86.3640	1.1422e-01	1.9002e+00
4	TRV000001	87.0040	88.0516	87.5991	2.1852e-01	1.9002e+00
5	TSR000001	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	271.3363	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	39.0489	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

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#	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	-5.2020	1.9385e-01	8.7010e-01
92	PAN120048	-12.0293	-7.9858	-9.9450	5.4446e-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

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#	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

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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	TRF000001	80.8549	81.7037	81.3430	2.0222e-01	1.9001e+00
1	TRF000002	81.2049	81.8382	81.5385	1.4827e-01	1.9001e+00
2	TRF000001	87.3253	88.0597	87.6947	1.9221e-01	1.9002e+00
3	TIN000001	86.6792	87.3118	86.9494	1.5664e-01	1.9002e+00
4	TRV000001	87.6320	88.6799	88.1049	2.2707e-01	1.9002e+00
5	TSR000001	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	3.7600e-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	TRT020000	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

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#	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	4.5891e-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	1.8644e+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	-10.5728	-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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIW000001	39.8366	40.0808	39.9685	8.8371e-02	7.5663e-01
102	PIW000001	19.7186	19.9627	19.8358	4.9077e-02	7.5164e-01
103	PSR000001	44.6935	44.9376	44.7911	6.0409e-02	7.5831e-01
104	PFW000001	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	PEW000002	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	VPW000001	102.0245	102.6104	102.3760	1.9730e-01	1.0166e+00
113	VPW000002	119.0467	119.6327	119.3671	1.3532e-01	1.0812e+00
114	VPW000003	147.8178	148.2084	147.8882	1.0259e-01	1.2014e+00
115	VPW000004	105.0593	105.4500	105.2938	1.1838e-01	1.0272e+00
116	VPW000005	139.6522	140.2381	139.9647	1.1161e-01	1.1668e+00
117	VPW000006	148.4563	149.0422	148.7062	1.3111e-01	1.2051e+00
118	IPW000001	543.5024	553.2642	548.8519	2.5807e+00	9.1875e+00
119	IPW000002	1286.7122	1304.2736	1296.1172	5.5005e+00	1.3056e+01
120	IPW000003	1312.3499	1322.0999	1318.1611	2.8813e+00	1.3193e+01
121	IPW000004	382.1458	383.6106	382.8294	4.5206e-01	3.6258e+00
122	IPW000005	252.5851	254.0498	253.4639	3.9455e-01	2.8301e+00
123	IPW000006	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	IHT000001	128.1325	130.2809	129.3199	4.4088e-01	4.2991e+00
129	IHT000002	131.9862	134.1346	132.9901	4.4294e-01	4.3103e+00
130	IHT000003	131.9186	134.2623	133.0708	4.4337e-01	4.3105e+00
131	IHT000004	130.2096	132.3580	131.3228	4.5549e-01	4.3052e+00
132	IHT000005	128.4856	130.6340	129.7355	4.8808e-01	4.3004e+00
133	IHT000006	123.6065	125.9503	124.8252	4.6448e-01	4.2858e+00
134	IHT000007	130.6040	132.9477	131.8540	4.7842e-01	4.3068e+00
135	IHT000008	128.9889	131.5279	130.3755	4.8848e-01	4.3023e+00
136	IHT000009	129.3682	131.9073	130.7236	5.2261e-01	4.3034e+00
137	IHT000010	-41.2748	-38.7357	-40.0756	5.6910e-01	4.1195e+00
138	IHT000011	129.1353	131.4791	130.4009	5.5277e-01	4.3024e+00
139	IHT000012	126.7503	129.4847	128.1410	5.7945e-01	4.2956e+00
140	IHT000013	90.6250	92.9688	92.0234	5.5011e-01	4.2020e+00
141	IHT000014	126.9757	129.1241	127.9756	5.2740e-01	4.2951e+00
142	IHT000015	94.6214	96.7698	95.7581	5.1250e-01	4.2103e+00
143	IHT000016	88.3263	90.6701	89.5529	5.9456e-01	4.1967e+00
144	IHT000017	105.0706	108.5863	106.9183	1.0039e+00	4.2371e+00
145	IHT000018	106.7683	109.3074	108.1356	6.7080e-01	4.2402e+00
146	IHT000019	103.4781	105.4312	104.4468	5.1894e-01	4.2309e+00
147	IHT000020	106.1974	108.3458	107.1857	5.2706e-01	4.2378e+00
148	IHT000021	-2.8132	-0.0789	-1.4070	5.8527e-01	4.1000e+00
149	IHT000022	92.2739	94.4223	93.3052	5.2651e-01	4.2048e+00
150	IHT000023	104.3645	106.3176	105.1262	4.2909e-01	4.2326e+00
151	IHT000024	69.5726	71.5257	70.2718	4.1590e-01	4.1598e+00
152	IHT000025	104.7439	106.6970	105.4860	4.3405e-01	4.2335e+00
153	IHT000026	105.1307	106.8885	105.9237	4.3478e-01	4.2346e+00
154	IHT000027	89.7987	92.1424	90.8494	4.8791e-01	4.1994e+00
155	IHT000028	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

DEFECTIVE INSTRUMENTS FOR THE RIBBED GEOMETRY TEST SERIES

Series	Tests	Defective Instruments
13	Aug17_26 to Aug17_31	TAO120048 TAF070136 TRT120000 TAO020136 TAF080136 TRT125000 TAO070136 TAF090136 TRR130000 TAO080136 TAF120136 TAO110136 TAO125136 IHT000010 IHT000021 IHT000024 IHT000033

Chapter 19

NUCLEATE BOILING PRESSURE DROP IN AN ANNULUS

Test Geometry: Ribbed (4)
Test Series: 3A
Test Date: August 17, 1990

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Aug17_32	26.02	19.72
Aug17_33	14.09	2.51
Aug17_34	5.97	-3.80
Aug17_35	3.91	-4.69
Aug17_36	3.52	-4.77
Aug17_37	3.45	-4.78

(c)

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F
Inlet pressure	40 psia
Wall heat flux	100 kBtu/hr-ft ²
Flux distribution	uniform
He saturation pressure	15 psig

NOTES:

- (a) Inlet velocity calculated from PFM000001
- (b) Pressure drop calculated from PAN000136
- (c) Shading notes test at minimum pressure drop

DEMAND CURVE AND DATA FOR SERIES 3A - RIBBED ANNULUS

SERIES 3A, AUG17_37
 RIBBED (4)
 $\Phi = 100,200 \text{ Btu/hr-ft}^2$
 $V_f = 3.45 \text{ ft/sec}$

$P_{\text{He}} = 15 \text{ psig}$
 $P = 40.07 \text{ psia}$
 $T = 86.87 \text{ }^\circ\text{F}$
 $L = 12.83 \text{ ft}$

RIBBED (4)

$\Phi = 100,200 \text{ Btu/hr-ft}^2$
 $V_f = 3.45 \text{ ft/sec}$

$P_{\text{He}} = 15 \text{ psig}$
 $P = 40.07 \text{ psia}$
 $T = 86.87 \text{ }^\circ\text{F}$
 $L = 12.83 \text{ ft}$

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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	TRF0000001	81.4916	82.1279	81.8564	1.8698e-01	1.9001e+00
1	TRF0000002	81.8382	82.2602	82.0702	1.4297e-01	1.9001e+00
2	TFM0000001	86.3842	87.2242	86.8856	1.8892e-01	1.9002e+00
3	TIN0000001	85.6270	86.4700	86.0927	1.8324e-01	1.9002e+00
4	TRV0000001	86.1700	87.4289	86.7138	2.7904e-01	1.9002e+00
5	TSR0000001	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

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#	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	TSI0000001	58.6530	59.4066	58.9957	1.6504e-01	1.9001e+00
54	TSI0000002	90.2132	91.4694	90.9060	3.1836e-01	1.9003e+00
55	TSO0000001	57.1077	57.8646	57.5508	1.9323e-01	1.9001e+00
56	TSO0000002	62.7549	63.7209	63.3967	2.1507e-01	1.9000e+00
57	TAF*20136	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	PAB0000136	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8366	40.6911	40.2907	1.8950e-01	7.5673e-01
102	PRV000001	29.7283	29.9725	29.9115	6.6404e-02	7.5372e-01
103	PSR000001	18.3263	18.4484	18.4044	5.9189e-02	7.5141e-01
104	PFM000001	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	PFM000002	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	VPW000001	101.4385	101.8292	101.6221	1.0741e-01	1.0138e+00
113	VPW000002	118.4608	118.8514	118.7382	1.0507e-01	1.0787e+00
114	VPW000003	147.0365	147.4271	147.2124	1.2001e-01	1.1984e+00
115	VPW000004	104.4734	104.8640	104.6805	1.0741e-01	1.0250e+00
116	VPW000005	138.8709	139.6522	139.3163	1.6289e-01	1.1640e+00
117	VPW000006	147.6750	148.0657	147.8468	1.3462e-01	1.2013e+00
118	IPW000001	541.5501	549.3595	545.4939	1.7854e+00	9.1750e+00
119	IPW000002	1314.0299	1325.7375	1320.1178	2.4820e+00	1.3205e+01
120	IPW000003	1327.9498	1337.6998	1334.4240	2.7979e+00	1.3294e+01
121	IPW000004	379.2161	381.1692	380.4466	3.8511e-01	3.6102e+00
122	IPW000005	254.0498	255.5145	254.8017	3.5850e-01	2.8376e+00
123	IPW000006	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	IHT000001	128.7184	131.2575	129.6090	5.2963e-01	4.3000e+00
129	IHT000002	132.5721	134.3299	133.3417	4.6923e-01	4.3114e+00
130	IHT000003	132.8951	134.8483	133.7427	4.4224e-01	4.3126e+00
131	IHT000004	131.1861	133.3346	131.9087	5.6531e-01	4.3070e+00
132	IHT000005	129.4621	131.8059	130.3683	5.2757e-01	4.3023e+00
133	IHT000006	124.3878	127.1221	125.3721	5.3519e-01	4.2874e+00
134	IHT000007	131.5806	133.9243	132.4907	5.2141e-01	4.3088e+00
135	IHT000008	129.9654	132.6998	131.0044	5.3879e-01	4.3042e+00
136	IHT000009	130.1495	132.8839	131.2197	5.4138e-01	4.3049e+00
137	IHT000010	-40.2982	-37.5639	-39.2631	5.5278e-01	4.1188e+00
138	IHT000011	130.1119	132.6510	131.2095	5.4803e-01	4.3048e+00
139	IHT000012	127.9222	130.0706	128.8402	5.2830e-01	4.2977e+00
140	IHT000013	91.7969	93.9453	92.6875	4.8834e-01	4.2035e+00
141	IHT000014	128.1476	130.1007	128.9795	4.6989e-01	4.2981e+00
142	IHT000015	95.4026	97.3558	96.2698	4.6213e-01	4.2115e+00
143	IHT000016	88.9122	91.0607	89.8927	4.5761e-01	4.1974e+00
144	IHT000017	106.0472	109.1722	107.3792	8.4969e-01	4.2383e+00
145	IHT000018	107.7449	110.6746	108.8387	6.1384e-01	4.2420e+00
146	IHT000019	104.0640	106.2124	105.0757	5.1098e-01	4.2325e+00
147	IHT000020	106.7833	108.7365	107.6857	5.1884e-01	4.2391e+00
148	IHT000021	-2.8132	-0.4695	-1.4617	5.4224e-01	4.1000e+00
149	IHT000022	92.8598	94.4223	93.6216	4.3450e-01	4.2055e+00
150	IHT000023	104.7551	106.5129	105.6770	4.9762e-01	4.2340e+00
151	IHT000024	69.9632	71.7210	70.8460	4.6394e-01	4.1608e+00
152	IHT000025	105.1345	107.0876	106.1384	4.7843e-01	4.2352e+00
153	IHT000026	105.7167	107.4745	106.5877	4.6052e-01	4.2363e+00
154	IHT000027	90.3846	91.9471	91.2791	4.0064e-01	4.2004e+00
155	IHT000028	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

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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

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#	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

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#	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	PAM000136	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 = 5.9726 (ft/sec) (+/- 4.9459 %)
 Velocity 2 = 5.9442 (ft/sec) (+/- 2.3786 %)
 Pressure drop = -3.7960 (psi)
 Tsat in = 268.0205 (deg F) Tsat 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	TRF0000001	81.7037	82.5519	82.1448	1.8596e-01	1.9001e+00
1	TRF0000002	82.0492	82.8929	82.3783	1.4236e-01	1.9001e+00
2	TRF0000001	86.4903	87.4347	86.9687	2.1643e-01	1.9002e+00
3	TIN0000001	85.8374	86.4702	86.2046	1.3999e-01	1.9002e+00
4	TRV0000001	86.6957	87.5349	87.1406	2.0488e-01	1.9002e+00
5	TSR0000001	116.0894	117.5206	117.0458	3.0591e-01	1.9015e+00
6	TNO020136	70.6240	72.4366	71.4855	3.8764e-01	1.9000e+00
7	TNO050136	159.5021	160.4929	160.0456	2.2539e-01	1.9055e+00
8	TNO070136	160.8888	162.3835	161.7895	3.6227e-01	1.9057e+00
9	TNO080136	111.6785	112.6002	112.1161	2.3329e-01	1.9012e+00
10	TNO090136	188.4099	189.4775	188.9382	2.1781e-01	1.9095e+00
11	TNO100136	187.7821	189.0454	188.4117	2.5637e-01	1.9094e+00
12	TNO105136	193.0433	194.2099	193.6539	2.6837e-01	1.9103e+00
13	TNO110136	87.1273	87.8626	87.4057	1.4621e-01	1.9002e+00
14	TNO115136	193.7290	195.0865	194.3495	2.7711e-01	1.9104e+00
15	TNO120136	207.3302	207.9081	207.7189	1.3026e-01	1.9127e+00
16	TNO125136	121.0725	122.3989	121.6317	2.8872e-01	1.9018e+00
17	TNO130136	202.1464	202.7234	202.3944	1.5238e-01	1.9118e+00
18	TNO120048	93.8397	95.0945	94.4547	2.8515e-01	1.9004e+00
19	TNO130048	203.1192	203.8896	203.4935	1.5749e-01	1.9120e+00
20	TNO120224	205.5074	206.4700	206.0314	1.9834e-01	1.9124e+00
21	TNO130224	194.8657	196.0186	195.3865	2.6137e-01	1.9106e+00
22	TNO120312	200.6654	201.7284	201.2300	2.4473e-01	1.9116e+00
23	TNO130312	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	TAP050136	115.9606	116.8807	116.3943	2.2702e-01	1.9014e+00
32	TAP070136	128.2178	129.2324	128.8823	2.5480e-01	1.9023e+00
33	TAP080136	181.9106	182.7846	182.3293	2.0639e-01	1.9085e+00
34	TAP090136	86.1683	87.6391	86.8413	3.0373e-01	1.9002e+00
35	TAP100136	148.9178	150.0207	149.2953	2.1493e-01	1.9042e+00
36	TAP105136	152.8167	153.8066	153.3547	2.5106e-01	1.9047e+00
37	TAP110136	156.8927	157.8870	157.3984	1.8265e-01	1.9051e+00
38	TAP115136	161.8893	163.0767	162.4582	2.4446e-01	1.9058e+00
39	TAP120136	181.7771	182.9444	182.4589	2.7095e-01	1.9085e+00
40	TAP125136	168.0530	169.2293	168.6877	2.4763e-01	1.9065e+00
41	TAP130136	171.0747	171.7646	171.4722	1.7554e-01	1.9069e+00
42	TAP120048	164.5542	165.7487	165.2349	3.1610e-01	1.9061e+00
43	TAP130048	171.4785	172.6597	171.9591	2.4244e-01	1.9070e+00
44	TAP120224	162.6928	163.8797	163.2381	2.6083e-01	1.9058e+00
45	TAP130224	167.5071	168.4003	168.0626	2.0041e-01	1.9065e+00

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#	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	TSI0000001	59.9411	60.9065	60.3626	1.8995e-01	1.9001e+00
54	TSI0000002	88.3316	89.6930	89.0311	3.5303e-01	1.9002e+00
55	TSO0000001	57.4312	58.2961	57.8290	1.9467e-01	1.9001e+00
56	TSO0000002	69.8102	70.5576	70.1097	1.9634e-01	1.9000e+00
57	TAP020136	94.8837	95.8298	95.4429	2.2794e-01	1.9004e+00
58	TAP120312	162.2697	163.9568	163.1948	3.8137e-01	1.9058e+00
59	TAP130312	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	7.006e-01
89	PAN120136	-3.6965	-3.3913	-3.5363	6.4018e-02	7.004e-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

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#	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	PFH000001	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	PFH000002	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	124.1525	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	91.4063	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	106.0955	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

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Velocity 1 = 3.9095 (ft/sec) (+/- 11.1709 %)
 Velocity 2 = 3.8983 (ft/sec) (+/- 4.3350 %)
 Pressure drop = -4.6912 (psi)
 Tsat in = 267.7674 (deg F) Tsat 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	5.5605e-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	TAC105136	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	205.3220	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

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#	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

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#	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	PFH0000001	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	PFH0000002	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	91.2139	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	IHT0000029	105.0105	107.3543	106.0223	5.4346e-01	4.2349e+00
157	IHT0000030	107.2078	109.7469	108.2860	5.6115e-01	4.2406e+00
158	IHT0000031	105.6415	108.1806	106.6181	5.6909e-01	4.2364e+00
159	IHT0000032	106.7420	109.4764	107.9334	5.4996e-01	4.2397e+00
160	IHT0000033	106.7646	109.4990	107.8818	5.3821e-01	4.2396e+00
161	IHT0000034	93.9378	95.8909	94.7190	4.4643e-01	4.2080e+00
162	IHT0000035	124.1136	126.0667	124.9691	4.6335e-01	4.2862e+00
163	IHT0000036	92.6044	94.3622	93.3740	4.0126e-01	4.2050e+00

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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	TRF0000001	82.1279	82.9758	82.5901	1.6964e-01	1.9001e+00
1	TRF0000002	82.6820	83.1037	82.8506	1.5359e-01	1.9001e+00
2	TFM0000001	87.0169	87.9610	87.5600	2.1369e-01	1.9002e+00
3	TIN0000001	86.4697	87.3122	86.8809	1.5376e-01	1.9002e+00
4	TRV0000001	87.6389	88.3750	87.8987	1.9285e-01	1.9002e+00
5	TSR0000001	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

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#	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	TSI0000001	60.4787	61.1239	60.8255	1.6408e-01	1.9001e+00
54	TSI0000002	89.9027	91.1597	90.5542	3.1443e-01	1.9003e+00
55	TSO0000001	57.4294	58.0780	57.7044	1.7637e-01	1.9001e+00
56	TSO0000002	75.4471	76.5091	75.9764	2.5237e-01	1.9000e+00
57	TAP020136	103.3659	105.5547	104.5689	4.1452e-01	1.9008e+00
58	TAP120312	218.4763	221.6225	219.9048	7.2537e-01	1.9151e+00
59	TAP130312	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	8.7004e-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	5.9064e-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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	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	PFH0000001	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	PFH0000002	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	VPW0000001	102.0245	102.4151	102.2666	1.0106e-01	1.0162e+00
113	VPW0000002	119.0467	119.6327	119.3475	1.1975e-01	1.0811e+00
114	VPW0000003	147.8178	148.2084	147.9467	1.0145e-01	1.2017e+00
115	VPW0000004	104.8640	105.4500	105.2078	1.2823e-01	1.0269e+00
116	VPW0000005	139.6522	140.2381	139.9140	1.2853e-01	1.1665e+00
117	VPW0000006	148.4563	148.8469	148.6241	1.1168e-01	1.2047e+00
118	IPW0000001	539.5978	547.4072	543.1121	1.5276e+00	9.1662e+00
119	IPW0000002	1310.1273	1315.9812	1313.0933	1.9005e+00	1.3161e+01
120	IPW0000003	1325.9999	1331.8499	1328.3784	1.7303e+00	1.3257e+01
121	IPW0000004	377.7513	379.2161	378.4446	3.1335e-01	3.5970e+00
122	IPW0000005	252.5851	253.5616	253.3076	2.6541e-01	2.8292e+00
123	IPW0000006	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	IHT0000001	127.7419	130.4762	129.0660	5.8699e-01	4.2983e+00
129	IHT0000002	131.5955	134.3299	132.7323	5.4346e-01	4.3095e+00
130	IHT0000003	132.1139	134.6530	133.1607	5.4213e-01	4.3108e+00
131	IHT0000004	130.2096	132.5533	131.2134	4.9914e-01	4.3048e+00
132	IHT0000005	128.4856	131.4153	129.7550	5.5419e-01	4.3004e+00
133	IHT0000006	123.6065	125.9503	124.7354	5.6399e-01	4.2855e+00
134	IHT0000007	130.6040	133.5337	131.9126	5.5278e-01	4.3070e+00
135	IHT0000008	129.3795	131.7233	130.4185	5.2562e-01	4.3024e+00
136	IHT0000009	129.5635	131.9073	130.6416	5.1936e-01	4.3031e+00
137	IHT0000010	-41.2748	-38.5404	-39.8178	5.2971e-01	4.1193e+00
138	IHT0000011	129.5260	131.6744	130.6744	4.7946e-01	4.3032e+00
139	IHT0000012	127.1409	129.2894	128.3714	4.2361e-01	4.2963e+00
140	IHT0000013	90.8203	92.9688	92.2109	4.5445e-01	4.2024e+00
141	IHT0000014	127.3663	128.9288	128.3920	3.8624e-01	4.2960e+00
142	IHT0000015	94.8167	96.1839	95.7386	3.5081e-01	4.2103e+00
143	IHT0000016	88.7169	90.0841	89.4904	3.4391e-01	4.1965e+00
144	IHT0000017	105.6566	108.3909	106.9417	6.4124e-01	4.2372e+00
145	IHT0000018	107.1590	109.5027	108.3387	5.1442e-01	4.2407e+00
146	IHT0000019	103.4781	105.6265	104.6890	4.6354e-01	4.2315e+00
147	IHT0000020	106.0021	108.1505	107.2091	4.6970e-01	4.2379e+00
148	IHT0000021	-2.8132	-0.2742	-1.4070	5.4391e-01	4.1000e+00
149	IHT0000022	92.2739	93.8364	93.1684	3.9674e-01	4.2045e+00
150	IHT0000023	104.1692	106.1223	105.1809	3.9791e-01	4.2328e+00
151	IHT0000024	69.3773	71.1351	70.2874	3.7973e-01	4.1598e+00
152	IHT0000025	104.5485	106.6970	105.6774	4.3097e-01	4.2340e+00
153	IHT0000026	105.1307	107.0838	106.1385	3.9922e-01	4.2352e+00
154	IHT0000027	89.7987	91.5565	90.8612	4.0271e-01	4.1995e+00
155	IHT0000028	90.5536	94.0693	92.3310	6.8374e-01	4.2027e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	104.4246	107.7449	105.9246	6.5843e-01	4.2346e+00
157	IHT0000030	106.6219	110.1375	108.1492	6.4680e-01	4.2402e+00
158	IHT0000031	105.0556	108.3759	106.4150	6.3987e-01	4.2358e+00
159	IHT0000032	106.3514	109.4764	107.7303	6.1815e-01	4.2392e+00
160	IHT0000033	106.3740	109.4990	107.6904	6.1360e-01	4.2391e+00
161	IHT0000034	93.5472	95.8909	94.5120	5.0287e-01	4.2075e+00
162	IHT0000035	123.5277	125.6761	124.6410	5.0878e-01	4.2853e+00
163	IHT0000036	92.2138	94.1669	93.2255	5.0175e-01	4.2047e+00

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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

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#	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	39.8366	40.2028	40.0710	1.0417e-01	7.5666e-01
102	PRV0000001	29.3621	29.6063	29.4964	4.4460e-02	7.5362e-01
103	PSR0000001	44.8156	45.0597	45.0011	6.6358e-02	7.5839e-01
104	PFH0000001	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	PFH0000002	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	VPW0000001	102.0245	102.4151	102.1729	1.0849e-01	1.0158e+00
113	VPW0000002	119.0467	119.4374	119.2889	1.0849e-01	1.0809e+00
114	VPW0000003	147.6225	148.2084	147.9272	1.1272e-01	1.2016e+00
115	VPW0000004	104.6687	105.4500	105.2078	1.4530e-01	1.0269e+00
116	VPW0000005	139.8475	140.4334	140.1561	1.3141e-01	1.1676e+00
117	VPW0000006	148.4563	149.0422	148.7491	1.4363e-01	1.2053e+00
118	IPW0000001	563.0259	570.8353	567.9457	2.0205e+00	9.2597e+00
119	IPW0000002	1269.1508	1278.9071	1273.9122	1.7700e+00	1.2919e+01
120	IPW0000003	1298.6998	1304.5499	1301.6249	1.8161e+00	1.3090e+01
121	IPW0000004	383.1223	385.0755	383.8060	6.1605e-01	3.6323e+00
122	IPW0000005	252.0969	253.5616	252.9952	3.1749e-01	2.8275e+00
123	IPW0000006	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	IHT0000001	127.7419	130.6716	129.0660	6.1547e-01	4.2983e+00
129	IHT0000002	131.5955	134.1346	132.7010	6.0696e-01	4.3094e+00
130	IHT0000003	132.1139	134.6530	133.2427	6.0912e-01	4.3111e+00
131	IHT0000004	130.2096	132.7486	131.3267	6.3263e-01	4.3052e+00
132	IHT0000005	128.8762	131.2199	129.8097	5.7493e-01	4.3006e+00
133	IHT0000006	123.8018	126.1456	124.8018	5.8079e-01	4.2857e+00
134	IHT0000007	131.1899	133.3384	131.9946	5.4052e-01	4.3072e+00
135	IHT0000008	129.5748	131.7233	130.4615	4.8842e-01	4.3026e+00
136	IHT0000009	129.7589	132.1026	130.6768	5.1938e-01	4.3032e+00
137	IHT0000010	-40.6889	-38.3451	-39.7592	5.6160e-01	4.1192e+00
138	IHT0000011	129.9166	132.2603	130.8111	5.4403e-01	4.3036e+00
139	IHT0000012	127.3362	129.4847	128.4417	4.8746e-01	4.2965e+00
140	IHT0000013	91.2109	93.3594	92.2617	4.4971e-01	4.2025e+00
141	IHT0000014	127.5616	129.7101	128.5459	4.6179e-01	4.2968e+00
142	IHT0000015	95.0120	96.9651	95.8440	4.4083e-01	4.2105e+00
143	IHT0000016	88.5216	90.4747	89.4279	4.0771e-01	4.1964e+00
144	IHT0000017	105.4613	109.3675	107.1683	8.3781e-01	4.2377e+00
145	IHT0000018	107.1590	109.6980	108.2762	5.5529e-01	4.2406e+00
146	IHT0000019	103.4781	106.0171	104.7007	5.5357e-01	4.2316e+00
147	IHT0000020	106.1974	108.5412	107.2169	5.9227e-01	4.2379e+00
148	IHT0000021	-2.6179	0.1164	-1.2781	6.4959e-01	4.1000e+00
149	IHT0000022	92.0786	94.6176	93.1841	5.1992e-01	4.2046e+00
150	IHT0000023	104.3645	106.5129	105.2355	5.0872e-01	4.2329e+00
151	IHT0000024	69.3773	71.5257	70.3108	4.3636e-01	4.1599e+00
152	IHT0000025	104.7439	107.0876	105.7243	4.7595e-01	4.2341e+00
153	IHT0000026	105.1307	107.2792	106.2127	4.9318e-01	4.2353e+00
154	IHT0000027	89.7987	91.9471	90.8729	4.5720e-01	4.1995e+00
155	IHT0000028	90.9443	93.6786	92.2138	6.1289e-01	4.2024e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	104.8152	107.3543	105.9012	6.3154e-01	4.2346e+00
157	IHT0000030	107.0125	109.5515	108.1492	6.2101e-01	4.2402e+00
158	IHT0000031	105.2509	107.7900	106.4853	6.2195e-01	4.2360e+00
159	IHT0000032	106.7420	109.0858	107.8358	6.2639e-01	4.2394e+00
160	IHT0000033	106.7646	108.9130	107.7881	6.2335e-01	4.2393e+00
161	IHT0000034	93.5472	95.5003	94.6995	4.8045e-01	4.2079e+00
162	IHT0000035	123.7230	125.8714	124.9105	4.9101e-01	4.2861e+00
163	IHT0000036	92.4091	94.1669	93.3544	4.7900e-01	4.2049e+00

DEFECTIVE INSTRUMENTS FOR THE RIBBED GEOMETRY TEST SERIES

Series	Tests	Defective Instruments
3A	Aug17_32 to Aug17_37	TAO120048 TAF070136 TRT070000 TAO020136 TAF080136 TRT120000 TAO070136 TAF090136 TRT125000 TAO080136 TAF120136 TRR130000 TAO110136 TAO125136 IHT000010 IHT000021 IHT000024 IHT000033

Chapter 20

PRESSURE DROP CURVES FOR NON-RIBBED AND RIBBED ANNULUS TEST SECTIONS

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Nov13_03	26.84	21.11
Nov13_02	24.89	17.66
Nov13_19	23.54	15.31
Nov13_04	23.11	14.65
Nov13_05	20.50	10.75
Nov13_06	18.38	7.81
Nov13_18	18.01	7.26
Nov13_07	16.62	5.59
Nov13_08	14.65	3.35
Nov13_09	12.82	1.48
Nov13_10	10.85	-0.32
Nov13_17	9.68	-1.27
Nov13_11	8.92	-1.83
Nov13_12	6.98	-3.11
Nov13_13	5.18	-4.09
Nov13_14	4.05	-4.57
Nov13_15	2.90	-4.97
Nov13_16	1.86	-5.24

NOMINAL TEST CONDITIONS	
Annulus geometry	non-ribbed (1)
Inlet temperature	86 °F

NOTES:

- (a) Inlet velocity calculated from PFM000001
(b) Pressure drop calculated from PAN000136

UNHEATED ANNULUS PRESSURE DROP - NON-RIBBED GEOMETRY BUILD 1

TOTAL PRESSURE DROP (psi)

ANNULUS INLET FLOW VELOCITY (ft/s)

□ TEST DATE 01/31/90

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Jan31_01	25.86	21.44
Jan31_02	23.89	17.62
Jan31_03	22.01	14.22
Jan31_15	21.42	13.22
Jan31_04	19.89	10.72
Jan31_05	18.03	7.96
Jan31_06	15.89	5.12
Jan31_07	14.17	3.15
Jan31_08	12.20	1.05
Jan31_14	11.06	-0.01
Jan31_09	9.91	-0.99
Jan31_10	8.06	-2.37
Jan31_16	7.07	-3.03
Jan31_11	6.03	-3.61
Jan31_17	4.84	-4.23
Jan31_12	4.04	-4.56
Jan31_18	3.02	-4.92
Jan31_13	2.06	-5.19

NOMINAL TEST CONDITIONS	
Annulus geometry	non-ribbed (2)
Inlet temperature	86 °F

NOTES:

(a) Inlet velocity calculated from PFM000001

(b) Pressure drop calculated from PAN000136

UNHEATED ANNULUS PRESSURE DROP - NON-RIBBED GEOMETRY BUILD 2

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
May01_01	27.00	21.47
May01_02	26.16	19.86
May01_18	25.17	18.10
May01_03	24.01	16.22
May01_04	22.00	13.04
May01_05	20.07	10.19
May01_06	17.98	7.45
May01_07	15.97	5.00
May01_08	14.06	2.86
May01_09	12.12	0.98
May01_10	10.06	-0.81
May01_11	8.10	-2.28
May01_17	7.05	-2.96
May01_12	6.14	-3.49
May01_16	5.05	-4.05
May01_13	4.04	-4.49
May01_14	2.96	-4.88
May01_15	2.10	-5.13

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (3)
Inlet temperature	86 °F

NOTES:

- (a) Inlet velocity calculated from PFM000001
(b) Pressure drop calculated from PAN000136

UNHEATED ANNULUS PRESSURE DROP - RIBBED GEOMETRY BUILD 3

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Jul31_01	25.96	20.65
Jul31_18	24.96	18.78
Jul31_02	24.01	17.15
Jul31_03	21.94	13.67
Jul31_04	19.98	10.70
Jul31_05	17.96	7.85
Jul31_06	15.99	5.31
Jul31_07	14.02	3.05
Jul31_21	13.00	1.93
Jul31_17	12.99	1.95
Jul31_08	12.05	1.05
Jul31_20	11.97	0.92
Jul31_19	11.06	0.03
Jul31_09	10.02	-0.75
Jul31_10	8.01	-2.30
Jul31_16	7.01	-2.95
Jul31_22	6.99	-2.97
Jul31_11	6.00	-3.54
Jul31_15	5.01	-4.07
Jul31_12	4.02	-4.50
Jul31_13	3.01	-4.88
Jul31_14	2.05	-5.16

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F

NOTES:

(a) Inlet velocity calculated from PFM000001

(b) Pressure drop calculated from PAN000136

UNHEATED ANNULUS PRESSURE DROP - RIBBED GEOMETRY BUILD 4

TEST NUMBER	INLET VELOCITY(a) (ft/s)	PRESSURE DROP(b) (psi)
Aug14_01	25.95	21.68
Aug14_16	25.03	20.02
Aug14_02	23.96	18.06
Aug14_03	21.99	14.62
Aug14_04	19.91	11.31
Aug14_05	18.00	8.56
Aug14_06	16.02	5.87
Aug14_07	14.06	3.52
Aug14_09	12.02	1.29
Aug14_08	11.97	1.25
Aug14_10	10.06	-0.52
Aug14_11	7.93	-2.19
Aug14_12	6.02	-3.43
Aug14_13	4.01	-4.42
Aug14_14	2.99	-4.84
Aug14_15	2.04	-5.13

NOMINAL TEST CONDITIONS	
Annulus geometry	ribbed (4)
Inlet temperature	86 °F

NOTES:

(a) Inlet velocity calculated from PFM000001

(b) Pressure drop calculated from PAN000136

UNHEATED ANNULUS PRESSURE DROP - RIBBED GEOMETRY BUILD 4 (REPEAT)

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Velocity 1 - 27.3454 (ft/sec) (+/- 3.4776 %)
 Velocity 2 - 13.3628 (ft/sec) (+/- 3.4861 %)
 Pressure drop - 21.6634 (psi)
 Tsat in - 269.6393 (deg F) Tsat out - 229.3888 (deg F)
 Phi inner - 0.0001 (kBtu/hr-ft2) (+/- 838.5344 %)
 Phi outer - 0.0001 (kBtu/hr-ft2) (+/- 923.7281 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	76.6376	77.2739	76.9558	1.6735e-01	1.9000e+00
1	TRF000002	75.3864	76.0201	75.6652	1.3790e-01	1.9000e+00
2	TFM000001	77.1860	78.0300	77.5469	2.0790e-01	1.9000e+00
3	TJM000001	84.5067	85.3478	84.8535	1.8428e-01	1.9001e+00
4	TRV000001	81.4649	82.3060	81.8493	1.6242e-01	1.9001e+00
5	TSR000001	76.2888	77.0282	76.6497	1.5255e-01	1.9000e+00
6	TAO020136	82.7796	83.6229	83.1908	2.4397e-01	1.9001e+00
7	TAO050136	82.7656	83.5014	83.1333	1.7900e-01	1.9001e+00
8	TAO070136	76.9173	77.8703	77.4789	1.8814e-01	1.9000e+00
9	TAO080136	81.6799	82.3105	81.9885	1.5514e-01	1.9001e+00
10	TAO090136	82.2633	83.2090	82.8370	1.9484e-01	1.9001e+00
11	TAO100136	82.4935	83.0203	82.7444	1.5893e-01	1.9001e+00
12	TAO105136	84.8960	85.9476	85.3399	2.2907e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0050	1.2097e-01	1.9011e+00
14	TAO115136	81.7991	82.8561	82.3553	2.7663e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.5835	8.9553e-02	1.9008e+00
16	TAO125136	84.2211	84.9568	84.4589	1.5283e-01	1.9001e+00
17	TAO130136	82.5778	83.3118	82.8817	1.6547e-01	1.9001e+00
18	EMPTY	55.0875	62.5101	57.6072	1.7108e+00	1.9022e+00
19	TAO130048	83.8095	84.3356	84.0892	1.5963e-01	1.9001e+00
20	TAO120224	80.0090	80.8531	80.5049	1.7989e-01	1.9001e+00
21	EMPTY	476.3032	474.8165	475.4034	4.9289e-01	2.0466e+00
22	TAO120312	82.2563	83.0988	82.6669	1.8705e-01	1.9001e+00
23	TAO130312	83.1009	83.7322	83.3179	1.6378e-01	1.9001e+00
24	EMPTY	37.0772	37.9974	37.5420	1.9985e-01	1.9009e+00
25	TRT070000	82.8360	83.6828	83.0915	1.8252e-01	1.9001e+00
26	TRT100000	83.4880	84.4338	83.8812	2.2838e-01	1.9001e+00
27	TRT120000	83.0315	83.7682	83.2949	1.7942e-01	1.9001e+00
28	TRT125000	85.7222	86.4546	86.0555	1.8981e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.8641	1.1466e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9637	1.8051e-01	1.9011e+00
31	TAF050136	83.6716	84.5118	84.1441	1.9357e-01	1.9001e+00
32	TAF070136	82.8822	83.6162	83.2747	1.8685e-01	1.9001e+00
33	TAF080136	82.3884	83.0184	82.7135	1.6311e-01	1.9001e+00
34	TAF090136	82.2970	83.3490	82.8671	2.7955e-01	1.9001e+00
35	TAF100136	82.7086	83.5515	83.1197	1.9414e-01	1.9001e+00
36	TAF105136	83.4177	84.4647	83.8765	2.5168e-01	1.9001e+00
37	TAF110136	81.4770	82.1088	81.7237	1.6272e-01	1.9001e+00
38	TAF115136	84.4847	85.4295	84.8646	2.0986e-01	1.9001e+00
39	TAF120136	83.8643	84.4948	84.1691	1.5477e-01	1.9001e+00
40	TAF125136	82.9344	83.6687	83.3094	1.6844e-01	1.9001e+00
41	TAF130136	82.6967	83.3287	82.9982	1.5189e-01	1.9001e+00
42	TAF120048	82.4618	83.3079	82.8619	2.2036e-01	1.9001e+00
43	TAF130048	83.1851	83.7115	83.3811	1.2933e-01	1.9001e+00
44	TAF120224	82.7604	83.6030	83.2050	2.0432e-01	1.9001e+00
45	TAF130224	82.7132	83.3462	83.0487	1.6884e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5247	1.9184e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6755	1.1383e-01	1.9010e+00
48	TAI130048	82.6359	84.0040	83.3790	3.3855e-01	1.9001e+00
49	EMPTY	30.3254	31.2749	30.7386	1.6480e-01	1.9006e+00
50	TAI130224	82.5071	83.6677	83.1974	2.7154e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.3468	1.7525e-01	1.9010e+00
52	TRR130000	82.5553	83.3967	82.9613	2.2758e-01	1.9001e+00
53	TSI000001	44.8514	45.8280	45.3701	2.4425e-01	1.9004e+00
54	TSI000002	63.1539	64.5416	63.8005	3.2950e-01	1.9000e+00
55	TSO000001	46.1617	47.0344	46.6263	2.3676e-01	1.9004e+00
56	TSO000002	69.8158	71.0924	70.3671	2.6727e-01	1.9000e+00
57	TAF020136	76.0363	76.8860	76.4337	1.9163e-01	1.9000e+00
58	TAF120312	84.1895	85.1332	84.6573	2.7474e-01	1.9001e+00
59	TAF130312	81.9744	82.6059	82.2671	1.9032e-01	1.9001e+00
60	EMPTY	0.3418	0.3516	0.3461	1.8821e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3610	1.1714e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3736	2.4642e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3905	6.9053e-04	0.0000e+00
64	EMPTY	0.2979	0.3027	0.2985	1.7115e-03	0.0000e+00
65	EMPTY	0.3174	0.3271	0.3210	2.3778e-03	0.0000e+00
66	EMPTY	0.3369	0.3369	0.3369	0.0000e+00	0.0000e+00
67	EMPTY	0.3564	0.3564	0.3564	0.0000e+00	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3709	9.6655e-04	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3892	2.2603e-03	0.0000e+00
70	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4295	9.6655e-04	0.0000e+00
72	EMPTY	0.4346	0.4492	0.4440	1.8216e-03	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4787	9.6655e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4979	6.9053e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5126	6.9053e-04	0.0000e+00
77	EMPTY	0.5322	0.5371	0.5324	9.6655e-04	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5561	1.6028e-03	0.0000e+00
79	EMPTY	0.5762	0.5762	0.5762	0.0000e+00	0.0000e+00
80	PAN020136	71.3009	75.5734	73.1732	9.8325e-01	8.8902e-01
81	PAN050136	139.5151	141.4988	140.8121	4.5646e-01	1.7165e+00
82	PAN070136	100.7518	100.7518	100.7519	7.7069e-05	9.0573e-01
83	PAN080136	45.3788	46.6758	45.9357	3.7065e-01	8.7755e-01
84	PAN090136	47.3744	48.2136	47.8062	1.8277e-01	8.7817e-01
85	PAN100136	44.4963	46.4037	45.3234	3.9908e-01	8.7735e-01
86	PAN105136	24.2834	25.3516	24.8129	2.4146e-01	8.7221e-01
87	PAN110136	24.2107	24.8973	24.5616	1.4211e-01	8.7216e-01
88	PAN115136	31.1534	32.6793	31.8004	3.5892e-01	8.7362e-01
89	PAN120136	20.4852	21.7059	21.0330	2.7081e-01	8.7159e-01
90	PAN125136	23.3477	24.7209	24.1793	3.0214e-01	8.7210e-01
91	PAN130136	22.6914	23.9121	23.2499	2.6583e-01	8.7194e-01
92	PAN120048	48.1390	49.8938	49.1034	3.3937e-01	8.7862e-01
93	PAN130048	46.0663	46.9818	46.4722	2.2093e-01	8.7772e-01
94	PAN120224	53.7426	54.5055	54.1072	1.5281e-01	8.8045e-01
95	PAN130224	47.0094	47.7723	47.3314	1.8770e-01	8.7801e-01
96	PAN120312	49.1061	49.8690	49.4799	2.2136e-01	8.7875e-01
97	PAN130312	45.3696	46.1326	45.8060	1.6388e-01	8.7750e-01
98	PAB000136	41.3691	41.7811	41.5495	9.4046e-02	5.8923e-01
99	PAB100136	25.1240	25.3987	25.2366	5.4092e-02	5.8342e-01
100	PAB125136	20.5552	20.6925	20.6339	3.9280e-02	5.8229e-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	41.1713	41.5375	41.3983	1.1304e-01	7.5711e-01
102	PRV000001	19.3311	19.4532	19.4483	2.4164e-02	7.5157e-01
103	PSR000001	16.3985	16.5205	16.5010	4.5206e-02	7.5113e-01
104	PFM000001	115.7780	118.1584	117.1147	5.3640e-01	5.7942e-01
105	PAN000136	599.7610	599.7610	599.7612	2.4662e-04	5.1434e+00
106	PFM000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0098	0.0098	0.0098	0.0000e+00	0.0000e+00
108	EMPTY	6.0254	-4.1309	-5.5106	4.1901e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0077	2.4344e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1325	7.8523e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1144	8.8233e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1347	9.6976e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.1053	8.8585e-02	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1230	8.1729e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1397	1.1732e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	1.8446	1.1707e+00	8.1000e+00
119	IPW000002	1.5516	2.3509	0.3996	1.1150e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.7753	9.9976e-01	8.1000e+00
121	IPW000004	0.3000	1.2766	0.6320	2.6908e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.4683	1.9752e-01	2.0000e+00
123	IPW000006	-0.7766	1.1766	0.0730	3.3901e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0185	3.0067e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	2.6635e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0148	2.6025e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	3.4116e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0250	8.8233e-02	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1566	1.0559e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1548	1.1578e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1748	7.1136e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1417	9.3461e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2142	7.2866e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1259	9.7935e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.0947	8.8585e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0402	9.4125e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1397	6.6498e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0508	8.6541e-02	4.1000e+00
139	IHT000012	-0.2328	0.1578	0.0641	1.0617e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0570	1.0885e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.0841	9.1354e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0627	8.8321e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	-0.0019	9.6655e-02	4.1000e+00
144	IHT000017	0.3647	1.1459	0.7983	1.9447e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0155	8.6541e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1169	6.7888e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0508	9.5765e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.2052	1.7827e-01	4.1000e+00
149	IHT000022	0.0000	0.1953	0.0117	4.6855e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1248	8.5454e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9572	1.0168e-01	4.1000e+00
152	IHT000025	-0.3600	-0.1647	-0.3327	6.8459e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.0917	4.6855e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1405	7.1136e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0423	8.4262e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.3906	0.0938	1.0617e-01	4.1000e+00
157	IHT000030	0.0000	0.3906	0.0938	1.1327e-01	4.1000e+00
158	IHT000031	0.0400	0.4306	0.1884	1.0106e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1522	7.8523e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9675	7.8523e-02	4.1000e+00
161	IHT000034	0.0000	0.3906	0.1523	9.8963e-02	4.1000e+00
162	IHT000035	-0.0681	0.5178	0.1506	9.3710e-02	4.1000e+00
163	IHT000036	-0.1153	0.2753	0.0839	7.3716e-02	4.1000e+00

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Velocity 1 = 24.8890 (ft/sec) (+/- 3.4806 %)
 Velocity 2 = 13.3626 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 17.6561 (psi)
 Tsat in = 268.1964 (deg F) Tsat out = 237.3670 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 1082.1578 %)
 Phi outer = 0.0003 (kBtu/hr-ft2) (+/- 648.1188 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.6376	77.2739	77.0025	1.7689e-01	1.9000e+00
1	TRF0000002	75.3864	76.0201	75.7202	1.4213e-01	1.9000e+00
2	TRF0000001	76.9751	77.9252	77.4500	2.1017e-01	1.9000e+00
3	TIN0000001	84.4007	85.1375	84.7062	1.8187e-01	1.9001e+00
4	TRV0000001	81.2550	82.0962	81.6733	2.0304e-01	1.9001e+00
5	TSR0000001	76.3944	77.2386	76.6794	1.7748e-01	1.9000e+00
6	TAO020136	82.4636	83.7284	83.1148	2.5443e-01	1.9001e+00
7	TAO050136	82.6612	83.1872	82.9745	1.3007e-01	1.9001e+00
8	TAO070136	77.0228	77.9770	77.5297	2.1667e-01	1.9000e+00
9	TAO080136	81.5757	82.3105	81.9011	1.7135e-01	1.9001e+00
10	TAO090136	82.2638	82.9996	82.6691	1.6858e-01	1.9001e+00
11	TAO100136	82.2838	83.0203	82.5510	1.5069e-01	1.9001e+00
12	TAO105136	84.7910	85.6321	85.2474	2.1522e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0463	1.2123e-01	1.9011e+00
14	TAO115136	81.9047	82.6444	82.2577	1.8445e-01	1.9001e+00
15	EMPTY	34.5420	35.0035	34.7082	1.1457e-01	1.9008e+00
16	TAO125136	84.0117	84.6422	84.3080	1.5116e-01	1.9001e+00
17	TAO130136	82.3709	82.8971	82.6129	1.1512e-01	1.9001e+00
18	EMPTY	239.3382	301.0021	266.1362	2.1712e+01	1.9471e+00
19	TAO130048	83.9149	84.4401	84.1899	1.3733e-01	1.9001e+00
20	TAO120224	79.9039	80.8531	80.2477	1.9038e-01	1.9001e+00
21	EMPTY	489.7618	488.2594	489.3035	2.7668e-01	2.0550e+00
22	TAO120312	82.1506	82.8882	82.5573	1.6351e-01	1.9001e+00
23	TAO130312	82.8915	83.5224	83.1963	1.4604e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.5742	2.0971e-01	1.9010e+00
25	TRT070000	82.7290	83.2576	82.9640	1.6018e-01	1.9001e+00
26	TRT100000	83.1737	84.1180	83.6170	2.0159e-01	1.9001e+00
27	TRT120000	82.7165	83.4531	83.1015	1.5713e-01	1.9001e+00
28	TRT125000	85.6189	86.2475	85.9474	1.7563e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.8870	1.2501e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9270	1.9116e-01	1.9011e+00
31	TAF050136	83.4626	84.4069	83.9809	1.6622e-01	1.9001e+00
32	TAF070136	82.7787	83.5127	83.1371	2.0421e-01	1.9001e+00
33	TAF080136	82.2846	82.9146	82.5134	1.6237e-01	1.9001e+00
34	TAF090136	82.0866	83.0338	82.6443	2.4527e-01	1.9001e+00
35	TAF100136	82.6040	83.3409	82.9132	1.5553e-01	1.9001e+00
36	TAF105136	83.3145	84.3611	83.6892	2.5264e-01	1.9001e+00
37	TAF110136	81.2678	82.0042	81.5687	1.6597e-01	1.9001e+00
38	TAF115136	84.2749	85.1150	84.6969	1.8186e-01	1.9001e+00
39	TAF120136	83.6556	84.2856	83.9643	1.5499e-01	1.9001e+00
40	TAF125136	82.7246	83.5645	83.1340	1.5188e-01	1.9001e+00
41	TAF130136	82.3818	83.1184	82.8173	1.4582e-01	1.9001e+00
42	TAF120048	82.2479	83.2007	82.6746	2.1551e-01	1.9001e+00
43	TAF130048	82.9751	83.5011	83.2212	1.1772e-01	1.9001e+00
44	TAF120224	82.6554	83.3926	83.0155	1.8912e-01	1.9001e+00
45	TAF130224	82.5012	83.2393	82.8534	1.6889e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5569	2.3636e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6939	1.0839e-01	1.9010e+00
48	TAI130048	82.7409	83.8990	83.2484	2.9678e-01	1.9001e+00
49	EMPTY	30.3254	31.0376	30.7575	1.7744e-01	1.9006e+00
50	TAI130224	82.4015	83.5621	82.9734	3.0092e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2549	1.6511e-01	1.9010e+00
52	TRR130000	82.1358	83.1868	82.7348	2.3761e-01	1.9001e+00
53	TSI0000001	45.6104	46.3695	45.9422	1.6884e-01	1.9004e+00
54	TSI0000002	63.5804	64.8606	64.1207	2.9194e-01	1.9000e+00
55	TSO0000001	46.7072	47.7957	47.3018	2.4514e-01	1.9003e+00
56	TSO0000002	69.6031	70.5612	70.1714	2.2603e-01	1.9000e+00
57	TAF020136	76.1424	76.8860	76.4674	1.7099e-01	1.9000e+00
58	TAF120312	83.9799	85.0291	84.5107	2.6070e-01	1.9001e+00
59	TAF130312	81.7657	82.3963	82.0493	1.4609e-01	1.9001e+00
60	EMPTY	0.3369	0.3418	0.3399	2.3941e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3551	2.2146e-03	0.0000e+00
62	EMPTY	0.3613	0.3711	0.3678	2.5034e-03	0.0000e+00
63	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2977	9.6655e-04	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3175	6.9053e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3356	2.1635e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3534	2.3941e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3671	1.8950e-03	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3882	6.9053e-04	0.0000e+00
70	EMPTY	0.4004	0.4102	0.4041	2.3261e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4262	2.2146e-03	0.0000e+00
72	EMPTY	0.4395	0.4492	0.4416	2.6396e-03	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4616	2.4583e-03	0.0000e+00
74	EMPTY	0.4736	0.4834	0.4782	1.5314e-03	0.0000e+00
75	EMPTY	0.4932	0.5078	0.4974	2.6118e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5120	1.7115e-03	0.0000e+00
77	EMPTY	0.5322	0.5469	0.5325	2.0716e-03	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5538	2.4344e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5763	6.9053e-04	0.0000e+00
80	PAN020136	57.6443	61.1538	59.6859	8.1701e-01	8.8270e-01
81	PAN050136	111.7441	113.2700	112.5346	3.6565e-01	1.7034e+00
82	PAN070136	82.5176	83.9672	83.2927	3.8730e-01	8.9457e-01
83	PAN080136	36.7576	37.8257	37.4167	2.2693e-01	8.7501e-01
84	PAN090136	37.7614	38.5243	38.1688	1.5989e-01	8.7522e-01
85	PAN100136	35.8751	36.7906	36.3665	1.9628e-01	8.7474e-01
86	PAN105136	19.1718	19.9347	19.4434	2.0047e-01	8.7136e-01
87	PAN110136	19.2516	19.7094	19.5079	1.0312e-01	8.7137e-01
88	PAN115136	25.4314	26.3469	25.8632	2.6591e-01	8.7240e-01
89	PAN120136	16.1365	16.8994	16.5210	1.6812e-01	8.7098e-01
90	PAN125136	19.6093	20.3722	19.9434	1.6521e-01	8.7143e-01
91	PAN130136	18.0375	18.5715	18.3121	1.3169e-01	8.7120e-01
92	PAN120048	38.4497	39.6704	39.1043	2.8963e-01	8.7548e-01
93	PAN130048	36.9873	37.9791	37.5473	2.1668e-01	8.7505e-01
94	PAN120224	43.4429	44.0532	43.7679	1.4444e-01	8.7685e-01
95	PAN130224	37.7015	38.3882	37.9945	1.4893e-01	8.7517e-01
96	PAN120312	39.4930	40.0271	39.7433	1.2431e-01	8.7566e-01
97	PAN130312	36.4432	37.2062	36.8217	1.5941e-01	8.7486e-01
98	PAB000136	40.3621	40.7741	40.5589	8.9784e-02	5.8880e-01
99	PAB100136	27.4128	27.6417	27.5392	5.0282e-02	5.8407e-01
100	PAB125136	23.8053	23.9426	23.8575	3.7004e-02	5.8306e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1948	40.8051	40.4853	1.4567e-01	7.5680e-01
102	PRV0000001	19.4532	19.6973	19.6070	5.9445e-02	7.5160e-01
103	PSR0000001	20.3047	20.4268	20.3609	6.1457e-02	7.5173e-01
104	PFM0000001	96.1857	98.0168	96.9548	4.6056e-01	5.5565e-01
105	PAN000136	485.3201	491.7288	488.8174	1.4616e+00	5.0695e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0098	0.0098	0.0098	0.0000e+00	0.0000e+00
108	EMPTY	-6.4209	-4.2871	-5.6165	3.8472e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0057	1.8082e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0037	2.1065e-03	0.0000e+00
112	VPW0000001	0.1247	0.3200	0.1677	8.1729e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.1222	9.3043e-02	8.1000e-01
114	VPW0000003	0.0800	0.2753	0.1386	9.0412e-02	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0975	1.0014e-01	8.1000e-01
116	VPW0000005	0.0800	0.2753	0.1464	9.3461e-02	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1866	1.0705e-01	8.1000e-01
118	IPW0000001	0.3998	6.2569	3.1331	1.2473e+00	8.1000e+00
119	IPW0000002	-1.5516	4.3022	1.0631	1.0875e+00	8.1000e+00
120	IPW0000003	-0.7987	3.1013	0.9563	1.0608e+00	8.1000e+00
121	IPW0000004	0.3000	0.7883	0.4367	2.2146e-01	2.0000e+00
122	IPW0000005	0.4000	1.3764	0.9175	3.1825e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.1609	3.2479e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0189	3.0628e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0132	2.2603e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0160	2.7971e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0142	3.1583e-03	0.0000e+00
128	IHT0000001	-0.0141	0.3766	0.0445	9.8648e-02	4.1000e+00
129	IHT0000002	0.0706	0.4612	0.1409	1.0259e-01	4.1000e+00
130	IHT0000003	0.0259	0.4166	0.1236	1.2001e-01	4.1000e+00
131	IHT0000004	0.1553	0.5459	0.1866	8.2393e-02	4.1000e+00
132	IHT0000005	0.0753	0.6612	0.1613	1.2577e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2025	1.0440e-01	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1142	9.5765e-02	4.1000e+00
135	IHT0000008	0.0400	0.4306	0.1377	1.0625e-01	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0402	1.0942e-01	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1123	9.0756e-02	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.0430	8.1729e-02	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0602	9.8648e-02	4.1000e+00
140	IHT0000013	-0.2047	0.3813	0.0375	1.0106e-01	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1192	8.3612e-02	4.1000e+00
142	IHT0000015	0.0353	0.2306	0.0627	6.8459e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	-0.0253	8.8585e-02	4.1000e+00
144	IHT0000017	0.3647	0.9506	0.6459	1.7717e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.0936	9.3461e-02	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1208	7.3716e-02	4.1000e+00
147	IHT0000020	-0.0234	0.1719	0.0586	9.7377e-02	4.1000e+00
148	IHT0000021	-1.1934	-0.6075	-0.9825	1.1732e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0078	6.7888e-02	4.1000e+00
150	IHT0000023	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9728	8.7880e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3248	9.4125e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0995	7.1136e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1483	7.2866e-02	4.1000e+00
155	IHT0000028	-0.0047	0.3859	0.0656	1.0259e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	0.0000	0.3906	0.0938	1.0617e-01	4.1000e+00
157	IHT0000030	0.0000	0.1953	0.0859	9.7935e-02	4.1000e+00
158	IHT0000031	0.0400	0.4306	0.2392	9.2456e-02	4.1000e+00
159	IHT0000032	0.1600	0.3553	0.1717	4.6855e-02	4.1000e+00
160	IHT0000033	-1.9753	-1.7800	-1.9128	9.2034e-02	4.1000e+00
161	IHT0000034	0.0000	0.3906	0.1133	1.0507e-01	4.1000e+00
162	IHT0000035	-0.0681	0.3225	0.1272	5.5804e-02	4.1000e+00
163	IHT0000036	-0.1153	0.2753	0.0878	5.5243e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.8497	77.4860	77.1000	1.9957e-01	1.9000e+00
1	TRF0000002	75.5976	76.0201	75.8089	1.3495e-01	1.9000e+00
2	TFM0000001	77.0806	77.9252	77.5346	2.0812e-01	1.9000e+00
3	TIN0000001	84.5061	85.2423	84.8324	1.7429e-01	1.9001e+00
4	TRV0000001	81.3607	82.3060	81.8415	1.8399e-01	1.9001e+00
5	TSR0000001	76.3944	77.1331	76.7725	1.6675e-01	1.9000e+00
6	TAO020136	82.5677	83.6230	83.0682	2.4826e-01	1.9001e+00
7	TAO050136	82.7668	83.3965	83.0839	1.6095e-01	1.9001e+00
8	TAO070136	77.2338	78.0830	77.6058	1.8324e-01	1.9000e+00
9	TAO080136	81.7850	82.4155	82.0189	1.4457e-01	1.9001e+00
10	TAO090136	82.3683	83.2101	82.8290	1.9922e-01	1.9001e+00
11	TAO100136	82.3888	83.0208	82.7068	1.6674e-01	1.9001e+00
12	TAO105136	84.8958	85.8422	85.3398	2.1478e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0463	1.3782e-01	1.9011e+00
14	TAO115136	81.6929	82.8561	82.3207	2.5043e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.6112	1.0682e-01	1.9008e+00
16	TAO125136	84.1166	84.7476	84.4467	1.7637e-01	1.9001e+00
17	TAO130136	82.4760	83.1050	82.7719	1.5926e-01	1.9001e+00
18	EMPTY	224.8616	254.5360	240.9162	6.9302e+00	1.9387e+00
19	TAO130048	84.1244	84.5456	84.3453	1.2256e-01	1.9001e+00
20	TAO120224	80.0092	80.7481	80.3575	2.0135e-01	1.9001e+00
21	EMPTY	-499.9492	-498.4349	-499.2296	3.9927e-01	2.0611e+00
22	TAO120312	82.3613	83.2038	82.7174	1.8786e-01	1.9001e+00
23	TAO130312	82.9965	83.8372	83.3771	1.8014e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5650	1.9521e-01	1.9010e+00
25	TRT0700000	82.7296	83.3631	83.0863	1.7585e-01	1.9001e+00
26	TRT1000000	83.3836	84.2246	83.8649	2.0034e-01	1.9001e+00
27	TRT1200000	82.9268	83.5586	83.2488	1.4641e-01	1.9001e+00
28	TRT1250000	85.5150	86.4566	86.0273	2.1477e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.8916	1.3312e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.8994	2.1265e-01	1.9011e+00
31	TAF050136	83.7771	84.5118	84.1489	1.6468e-01	1.9001e+00
32	TAF070136	82.6746	83.7217	83.2716	2.3307e-01	1.9001e+00
33	TAF080136	82.2846	82.9152	82.6604	1.6572e-01	1.9001e+00
34	TAF090136	82.1922	83.3490	82.7706	2.4721e-01	1.9001e+00
35	TAF100136	82.6035	83.4464	83.0817	2.0219e-01	1.9001e+00
36	TAF105136	83.2113	84.3616	83.8402	2.6333e-01	1.9001e+00
37	TAF110136	81.1632	82.1088	81.6950	1.9400e-01	1.9001e+00
38	TAF115136	84.3803	85.3252	84.8188	2.2321e-01	1.9001e+00
39	TAF120136	83.9698	84.3910	84.1824	1.2296e-01	1.9001e+00
40	TAF125136	82.9344	83.5651	83.2517	1.6082e-01	1.9001e+00
41	TAF130136	82.5919	83.3292	82.9857	1.5017e-01	1.9001e+00
42	TAF120048	82.3552	83.2019	82.7928	2.1502e-01	1.9001e+00
43	TAF130048	83.0801	83.7115	83.3433	1.5525e-01	1.9001e+00
44	TAF120224	82.7604	83.6030	83.1798	2.0569e-01	1.9001e+00
45	TAF130224	82.6062	83.2393	82.9799	1.5117e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5707	2.1321e-01	1.9009e+00
47	EMPTY	37.3074	37.7675	37.6755	1.2296e-01	1.9010e+00
48	TAI130048	82.7409	83.8990	83.3873	3.0154e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.7813	1.5043e-01	1.9006e+00
50	TAI130224	82.6127	83.6676	83.1505	2.7236e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2457	1.7891e-01	1.9010e+00
52	TRR1300000	82.4509	83.2918	82.8442	2.2450e-01	1.9001e+00
53	TSI0000001	45.5020	46.3695	46.0160	1.9326e-01	1.9004e+00
54	TSI0000002	63.9006	65.0748	64.4623	2.7082e-01	1.9000e+00
55	TSO0000001	46.9246	48.1221	47.4931	2.6772e-01	1.9003e+00
56	TSO0000002	70.0286	70.8799	70.3374	2.1411e-01	1.9000e+00
57	TAF020136	76.2480	76.9915	76.5776	1.9817e-01	1.9000e+00
58	TAF120312	84.2944	85.0293	84.6955	2.4771e-01	1.9001e+00
59	TAF130312	81.8703	82.5014	82.1755	1.6634e-01	1.9001e+00
60	EMPTY	0.3369	0.3418	0.3414	1.3381e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3563	6.9053e-04	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3703	1.8082e-03	0.0000e+00
63	EMPTY	0.3809	0.3906	0.3857	9.8648e-04	0.0000e+00
64	EMPTY	0.2979	0.3027	0.2979	6.9053e-04	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3184	1.9730e-03	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3368	6.9053e-04	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3561	1.3381e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3702	1.8950e-03	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3872	2.2603e-03	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4049	1.3381e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4288	1.8950e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4434	1.9730e-03	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4637	9.6655e-04	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4787	9.6655e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4978	1.1714e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5126	6.9053e-04	0.0000e+00
77	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5560	1.7115e-03	0.0000e+00
79	EMPTY	0.5762	0.5762	0.5762	0.0000e+00	0.0000e+00
80	PAN020136	69.5461	73.5897	71.5008	1.0767e+00	8.8817e-01
81	PAN050136	133.5642	135.3953	134.4676	4.5604e-01	1.7133e+00
82	PAN070136	98.4630	100.4467	99.4823	3.8496e-01	9.0485e-01
83	PAN080136	44.0818	44.9973	44.5151	2.3651e-01	8.7709e-01
84	PAN090136	44.9330	45.8485	45.5326	1.8497e-01	8.7742e-01
85	PAN100136	41.9786	44.1912	43.0971	4.0828e-01	8.7665e-01
86	PAN105136	23.2153	24.5123	23.7967	3.0474e-01	8.7203e-01
87	PAN110136	23.4478	23.8292	23.6492	8.6865e-02	8.7201e-01
88	PAN115136	29.2461	30.6194	29.9846	2.9466e-01	8.7322e-01
89	PAN120136	19.7223	21.0193	20.3494	2.7499e-01	8.7149e-01
90	PAN125136	22.7373	23.5765	23.1584	1.6330e-01	8.7192e-01
91	PAN130136	21.7759	22.4625	22.1238	1.5036e-01	8.7176e-01
92	PAN120048	46.0791	47.0709	46.5704	2.5845e-01	8.7776e-01
93	PAN130048	44.3115	45.4559	44.7266	2.7058e-01	8.7716e-01
94	PAN120224	51.4537	52.3693	51.8230	1.8455e-01	8.7959e-01
95	PAN130224	44.9495	45.7887	45.2668	1.7733e-01	8.7733e-01
96	PAN120312	46.9698	47.5802	47.2689	1.6590e-01	8.7799e-01
97	PAN130312	43.4623	44.3015	43.8071	2.1647e-01	8.7687e-01
98	PAB000136	40.1790	40.6367	40.3959	1.1470e-01	5.8873e-01
99	PAB100136	24.6205	24.8951	24.7624	6.1520e-02	5.8329e-01
100	PAB125136	20.2347	20.4636	20.3345	5.0392e-02	5.8222e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.9506	40.6830	40.2411	1.5380e-01	7.5672e-01
102	PRV000001	19.2090	19.3311	19.3262	2.4164e-02	7.5155e-01
103	PSR000001	16.2764	16.3985	16.3618	5.6508e-02	7.5111e-01
104	PFH000001	111.2004	114.3132	112.8227	6.8213e-01	5.7407e-01
105	PAN000136	580.9927	588.3169	584.4351	1.5701e+00	5.1324e+00
106	PFH000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9053e-04	0.0000e+00
108	EMPTY	-5.9082	-3.8867	-5.0248	6.1850e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0068	2.4164e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1442	8.1347e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0870	8.2864e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1152	8.5454e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0702	9.8332e-02	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1737	9.8569e-02	8.1000e-01
117	VPW000006	-0.0400	0.5459	0.1670	1.1443e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	2.4303	1.0406e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.0094	9.6563e-01	8.1000e+00
120	IPW000003	-0.7987	5.0513	1.4243	1.0431e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.6613	3.0897e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.6538	2.6541e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.0535	2.8334e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0196	3.8825e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0131	2.3008e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	2.6762e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0146	3.4863e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0367	1.0297e-01	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1644	1.0617e-01	4.1000e+00
130	IHT000003	-0.1694	0.4166	0.1236	1.1334e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1748	9.0412e-02	4.1000e+00
132	IHT000005	-0.1200	0.4659	0.1534	1.1161e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2142	1.0741e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1416	9.8569e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1337	9.8569e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0480	7.9017e-02	4.1000e+00
137	IHT000010	-0.0400	0.1553	0.1006	8.8585e-02	4.1000e+00
138	IHT000011	-0.1953	0.1953	0.0664	1.0145e-01	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0719	9.7935e-02	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0375	9.3043e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1192	6.2265e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0705	7.5798e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0059	9.7935e-02	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6303	2.4881e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.0741	1.0559e-01	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1169	7.8523e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0273	8.6541e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0841	1.5364e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0117	6.1257e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1209	7.8918e-02	4.1000e+00
151	IHT000024	0.7853	1.3713	0.9806	9.6655e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3522	7.8523e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.0995	5.9189e-02	4.1000e+00
154	IHT000027	-0.9353	0.3553	0.1522	6.7888e-02	4.1000e+00
155	IHT000028	-0.0617	0.1906	0.0578	9.2034e-02	4.1000e+00

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

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Velocity 1 = 23.1138 (ft/sec) (+/- 3.4839 %)
 Velocity 2 = 13.3630 (ft/sec) (+/- 3.4861 %)
 Pressure drop = 14.6452 (psi)
 Tsat in = 268.3996 (deg F) Tsat out = 244.1339 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 726.3610 %)
 Phi outer = 0.0901 (kBtu/hr-ft2) (+/- 887.4529 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.8497	77.4860	77.1933	1.8123e-01	1.9000e+00
1	TRF000002	75.5976	76.0201	75.8638	1.1136e-01	1.9000e+00
2	TFH000001	77.2915	78.2419	77.7858	1.9939e-01	1.9000e+00
3	TIN000001	84.7164	85.3477	85.0574	1.6536e-01	1.9002e+00
4	TRV000001	81.6757	82.3065	82.0202	1.8617e-01	1.9001e+00
5	TSR000001	76.6055	77.1342	76.8508	1.5000e-01	1.9000e+00
6	TAO020136	82.8843	83.6230	83.2221	2.0544e-01	1.9001e+00
7	TAO050136	82.9761	83.6069	83.2456	1.5471e-01	1.9001e+00
8	TAO070136	77.2349	77.9763	77.6034	1.9065e-01	1.9000e+00
9	TAO080136	81.8901	82.4161	82.1680	1.5414e-01	1.9001e+00
10	TAO090136	82.5790	83.4195	83.0245	2.0870e-01	1.9001e+00
11	TAO100136	82.5995	83.3359	82.9277	1.6001e-01	1.9001e+00
12	TAO105136	85.1062	85.8427	85.4891	1.9901e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1014	1.1689e-01	1.9011e+00
14	TAO115136	82.1154	83.0666	82.5766	2.4048e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.6851	1.1314e-01	1.9008e+00
16	TAO125136	84.4314	84.8525	84.6210	1.1640e-01	1.9001e+00
17	TAO130136	82.6866	83.2100	82.9701	1.1443e-01	1.9001e+00
18	EMPTY	216.1143	232.9711	224.4527	3.9139e+00	1.9336e+00
19	TAO130048	84.2293	84.6504	84.4315	1.2169e-01	1.9001e+00
20	TAO120224	80.2200	81.0640	80.5578	2.0098e-01	1.9001e+00
21	EMPTY	-502.9831	-501.4652	-502.1102	2.7906e-01	2.0629e+00
22	TAO120312	82.5714	83.3093	82.9386	1.5819e-01	1.9001e+00
23	TAO130312	83.2070	83.8377	83.5432	1.4405e-01	1.9001e+00
24	EMPTY	37.0772	37.7675	37.5558	1.7291e-01	1.9009e+00
25	TRT070000	83.0466	83.5745	83.3041	1.3184e-01	1.9001e+00
26	TRT100000	83.5941	84.4343	84.0518	2.1713e-01	1.9001e+00
27	TRT120000	83.0318	83.8737	83.4487	1.8887e-01	1.9001e+00
28	TRT125000	85.8289	86.6645	86.2301	1.9285e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9192	1.1004e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9316	2.1290e-01	1.9011e+00
31	TAF050136	83.9875	84.6167	84.3608	1.3274e-01	1.9001e+00
32	TAF070136	82.9892	83.8266	83.4581	2.1387e-01	1.9001e+00
33	TAF080136	82.5985	83.2289	82.9012	1.4310e-01	1.9001e+00
34	TAF090136	82.4021	83.5597	82.9537	3.0691e-01	1.9001e+00
35	TAF100136	82.9192	83.6570	83.2691	1.5847e-01	1.9001e+00
36	TAF105136	83.5250	84.4665	84.0098	2.4057e-01	1.9001e+00
37	TAF110136	81.4781	82.2138	81.8737	1.5841e-01	1.9001e+00
38	TAF115136	84.5896	85.3252	85.0015	1.8833e-01	1.9002e+00
39	TAF120136	84.0747	84.4959	84.2728	1.0978e-01	1.9001e+00
40	TAF125136	83.0394	83.6700	83.4008	1.3607e-01	1.9001e+00
41	TAF130136	82.8023	83.4342	83.1520	1.6394e-01	1.9001e+00
42	TAF120048	82.5658	83.5184	82.9726	2.2373e-01	1.9001e+00
43	TAF130048	83.3956	83.9219	83.6190	1.1388e-01	1.9001e+00
44	TAF120224	82.9710	83.7085	83.3713	1.7016e-01	1.9001e+00
45	TAF130224	82.9224	83.3462	83.1300	1.2237e-01	1.9001e+00

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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.9272	40.5707	1.2291e-01	7.5683e-01
102	PRV000001	20.4297	20.4297	20.4297	1.3487e-05	7.5174e-01
103	PSR000001	23.8448	23.9668	23.8716	5.1081e-02	7.5237e-01
104	PFM000001	82.8190	84.3754	83.5643	3.7453e-01	5.4189e-01
105	PAN000136	402.0071	408.4158	405.4586	1.3472e+00	5.0233e+00
106	PFM000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1714e-03	0.0000e+00
108	EMPTY	-5.8057	-3.8721	-5.0744	5.6224e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0036	2.1635e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1364	9.1779e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0831	8.7880e-02	8.1000e-01
114	VPW000003	-0.1153	0.2753	0.1503	1.0259e-01	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0975	1.0014e-01	8.1000e-01
116	VPW000005	0.0800	0.4706	0.1659	1.0559e-01	8.1000e-01
117	VPW000006	-0.0400	0.5459	0.1709	1.0320e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	1.6493	1.0255e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.4386	1.0789e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	2.2043	1.1288e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.7004	2.1364e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.4488	2.2601e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.0828	3.0501e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0187	3.3728e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.6100e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0157	3.5962e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0152	3.0628e-03	0.0000e+00
128	IHT000001	-0.0141	0.1813	0.0289	8.1729e-02	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1605	9.8332e-02	4.1000e+00
130	IHT000003	-0.1694	0.2212	0.1119	1.0559e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1514	6.2265e-02	4.1000e+00
132	IHT000005	-0.1200	0.2706	0.1378	1.0014e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2103	7.8523e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1181	9.6655e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1416	9.8569e-02	4.1000e+00
136	IHT000009	-0.1200	0.0753	0.0167	9.0412e-02	4.1000e+00
137	IHT000010	-0.0400	0.1553	0.1241	7.2330e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0703	9.4702e-02	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0914	1.0145e-01	4.1000e+00
140	IHT000013	-0.0094	0.1859	0.0648	9.5765e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1309	1.0320e-01	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0861	8.6541e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0177	9.8648e-02	4.1000e+00
144	IHT000017	0.1694	0.9506	0.6694	2.2722e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0467	9.7377e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.1247	7.8918e-02	4.1000e+00
147	IHT000020	-0.2188	0.1719	0.0156	8.8233e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0684	1.5160e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	3.9459e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.0858	9.5765e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	0.9455	9.4125e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3756	7.7324e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0761	6.2265e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1287	8.2393e-02	4.1000e+00
155	IHT000028	-0.2000	0.3859	0.0422	1.2200e-01	4.1000e+00

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

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	76.8497	77.4860	77.2060	1.7893e-01	1.9000e+00
1	TRF0000002	75.8089	76.2313	75.9525	1.0829e-01	1.9000e+00
2	TFM0000001	77.3975	78.3467	77.8449	1.7905e-01	1.9000e+00
3	TIN0000001	84.7164	85.4526	85.1456	1.5735e-01	1.9002e+00
4	TRV0000001	81.7798	82.5157	82.0791	1.8669e-01	1.9001e+00
5	TSR0000001	76.6060	77.1342	76.9057	1.3887e-01	1.9000e+00
6	TAO020136	82.6737	83.6225	83.1966	2.2341e-01	1.9001e+00
7	TAO050136	82.9779	83.6069	83.3379	1.7379e-01	1.9001e+00
8	TAO070136	77.1283	78.1884	77.6753	2.1136e-01	1.9000e+00
9	TAO080136	81.8901	82.5211	82.2561	1.3125e-01	1.9001e+00
10	TAO090136	82.5790	83.5250	83.0834	1.9465e-01	1.9001e+00
11	TAO100136	82.5995	83.3359	82.9655	1.4619e-01	1.9001e+00
12	TAO105136	85.1062	86.0523	85.5647	1.8729e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1059	1.4429e-01	1.9011e+00
14	TAO115136	82.2211	83.0666	82.6482	2.0812e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.7405	8.0882e-02	1.9008e+00
16	TAO125136	84.4314	84.8525	84.6840	1.1449e-01	1.9001e+00
17	TAO130136	82.6860	83.2100	82.9998	1.4204e-01	1.9001e+00
18	EMPTY	228.8300	242.1349	236.5051	3.6723e+00	1.9373e+00
19	TAO130048	84.2293	84.7543	84.4903	1.2609e-01	1.9001e+00
20	TAO120224	80.1150	81.0640	80.6210	1.8815e-01	1.9001e+00
21	EMPTY	-499.5704	-498.4349	-499.0326	2.8703e-01	2.0610e+00
22	TAO120312	82.6771	83.3093	83.0059	1.4683e-01	1.9001e+00
23	TAO130312	83.3114	83.8372	83.5684	1.2778e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5466	1.7365e-01	1.9009e+00
25	TRT070000	83.0466	83.6800	83.3757	1.4422e-01	1.9001e+00
26	TRT100000	83.8039	84.5392	84.1232	1.5148e-01	1.9001e+00
27	TRT120000	83.2421	83.8737	83.4949	1.4264e-01	1.9001e+00
28	TRT125000	85.9322	86.5613	86.2804	1.7360e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9054	1.2292e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9040	1.8689e-01	1.9011e+00
31	TAF050136	83.8820	84.7221	84.4321	1.9948e-01	1.9001e+00
32	TAF070136	83.0927	84.1409	83.4918	2.0297e-01	1.9001e+00
33	TAF080136	82.5985	83.2289	82.9182	1.4678e-01	1.9001e+00
34	TAF090136	82.5077	83.4545	82.9873	2.8516e-01	1.9001e+00
35	TAF100136	83.0247	83.5515	83.3237	1.3851e-01	1.9001e+00
36	TAF105136	83.7331	84.5696	84.0602	2.3945e-01	1.9001e+00
37	TAF110136	81.5838	82.3194	81.9326	1.6526e-01	1.9001e+00
38	TAF115136	84.5896	85.4300	85.0477	2.0316e-01	1.9002e+00
39	TAF120136	84.0747	84.7051	84.3274	1.2209e-01	1.9001e+00
40	TAF125136	83.2486	83.8791	83.5222	1.3750e-01	1.9001e+00
41	TAF130136	82.9073	83.4342	83.2276	1.4883e-01	1.9001e+00
42	TAF120048	82.5658	83.5184	83.0612	2.2476e-01	1.9001e+00
43	TAF130048	83.3956	84.0274	83.6526	1.2795e-01	1.9001e+00
44	TAF120224	82.9710	83.8134	83.4218	2.0068e-01	1.9001e+00
45	TAF130224	82.9232	83.6630	83.2016	1.3617e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.4878	2.1903e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6295	1.1383e-01	1.9010e+00
48	TAI130048	83.0565	84.2144	83.6714	3.1134e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8098	1.6584e-01	1.9006e+00
50	TAI130224	82.7177	83.9836	83.3886	3.0722e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2549	1.6511e-01	1.9010e+00
52	TRR130000	82.6609	83.5016	83.1447	2.0680e-01	1.9001e+00
53	TSI0000001	45.5025	46.2612	45.8712	1.8064e-01	1.9004e+00
54	TSI0000002	62.6198	63.9015	63.2779	3.1224e-01	1.9000e+00
55	TSO0000001	46.0512	47.0322	46.4439	2.2971e-01	1.9004e+00
56	TSO0000002	69.8159	70.5607	70.1183	2.1427e-01	1.9000e+00
57	TAP020136	76.3541	76.9915	76.6684	1.7035e-01	1.9000e+00
58	TAF120312	84.2944	85.2388	84.8656	2.5165e-01	1.9001e+00
59	TAF130312	82.0810	82.8165	82.4465	1.9132e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3436	2.3675e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3585	2.4344e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3735	1.3381e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3896	2.0432e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2977	9.6655e-04	0.0000e+00
65	EMPTY	0.3125	0.3223	0.3174	9.8648e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3343	2.4583e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3523	1.8082e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3666	1.3381e-03	0.0000e+00
69	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4016	2.1065e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4253	1.4797e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4398	1.3381e-03	0.0000e+00
73	EMPTY	0.4541	0.4639	0.4597	1.9754e-03	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4783	9.6655e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4950	2.3941e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5114	2.1635e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5319	1.1714e-03	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5523	1.6028e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5763	6.9053e-04	0.0000e+00
80	PAN020136	34.2983	40.0967	36.6345	1.2092e+00	8.7481e-01
81	PAN050136	67.0359	68.8669	67.9758	4.5554e-01	1.6886e+00
82	PAN070136	50.1689	51.9237	51.1089	4.2477e-01	8.7933e-01
83	PAN080136	22.3380	23.4824	23.0170	2.3541e-01	8.7190e-01
84	PAN090136	22.8840	23.4944	23.2197	1.4864e-01	8.7193e-01
85	PAN100136	21.1504	22.0659	21.6295	1.8691e-01	8.7168e-01
86	PAN105136	11.0083	11.6949	11.3959	1.5011e-01	8.7047e-01
87	PAN110136	11.5459	12.0037	11.7427	1.1748e-01	8.7050e-01
88	PAN115136	16.6576	17.3442	17.0452	1.5857e-01	8.7104e-01
89	PAN120136	8.8123	9.4226	9.1876	1.4113e-01	8.7030e-01
90	PAN125136	12.6665	13.2006	12.9274	1.3621e-01	8.7060e-01
91	PAN130136	10.2555	10.7133	10.4417	1.0917e-01	8.7039e-01
92	PAN120048	22.4280	23.9539	23.2016	3.3452e-01	8.7193e-01
93	PAN130048	22.3389	23.1018	22.7783	1.5457e-01	8.7186e-01
94	PAN120224	26.8871	27.7263	27.2548	1.9171e-01	8.7266e-01
95	PAN130224	23.3583	23.8923	23.6284	1.5885e-01	8.7200e-01
96	PAN120312	24.4631	25.2261	24.9011	1.8160e-01	8.7222e-01
97	PAN130312	22.2526	23.2444	22.7866	1.9558e-01	8.7186e-01
98	PAB000136	40.2247	40.8198	40.5287	1.3957e-01	5.8878e-01
99	PAB100136	32.6314	32.8602	32.7247	6.0616e-02	5.8574e-01
100	PAB125136	30.3513	30.5802	30.4648	5.1691e-02	5.8498e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	39.8285	40.9272	40.3876	2.3015e-01	7.5677e-01
102	PRV000001	20.3076	20.4297	20.3101	1.7263e-02	7.5172e-01
103	PSR000001	27.9951	28.1172	28.1001	4.2787e-02	7.5328e-01
104	PFH000001	64.7832	66.6142	65.6950	3.8576e-01	5.2628e-01
105	PAN000136	292.6016	302.2146	297.4996	2.2583e+00	4.9759e+00
106	PFH000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1714e-03	0.0000e+00
108	EMPTY	-6.1084	-4.1650	-5.3786	5.1225e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0027	2.4484e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1403	6.6498e-02	8.1000e-01
113	VPW000002	0.0753	0.2706	0.1066	7.2330e-02	8.1000e-01
114	VPW000003	0.1153	0.2753	0.1308	1.1027e-01	8.1000e-01
115	VPW000004	-0.0353	0.5506	0.1092	1.1027e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1347	8.8585e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1241	1.0705e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	1.8836	1.0845e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.8679	1.1534e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	2.8673	1.1580e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.8469	2.3428e-01	2.0000e+00
122	IPW000005	0.0883	0.8882	0.2633	2.7969e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.2488	3.5908e-01	2.0000e+00
124	EMPTY	0.0293	-0.0146	-0.0188	3.6057e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0138	3.2253e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0159	2.7568e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	3.4116e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0133	8.8321e-02	4.1000e+00
129	IHT0000002	0.0706	0.2659	0.1409	9.4702e-02	4.1000e+00
130	IHT0000003	0.0259	0.4166	0.1119	1.0559e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1397	7.7324e-02	4.1000e+00
132	IHT0000005	-0.1200	0.2706	0.1300	9.6976e-02	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.1869	9.5357e-02	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.0947	8.8585e-02	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.0908	8.6541e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0402	8.5454e-02	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1280	8.8321e-02	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.1094	9.7935e-02	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.1070	8.6541e-02	4.1000e+00
140	IHT0000013	-0.2047	0.1859	0.0727	1.0507e-01	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1544	8.8233e-02	4.1000e+00
142	IHT0000015	0.0353	0.2306	0.0744	7.8918e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	0.0255	9.8332e-02	4.1000e+00
144	IHT0000017	0.3647	1.1459	0.6694	2.0939e-01	4.1000e+00
145	IHT0000018	-0.0353	0.3553	0.0741	1.1272e-01	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1091	1.0320e-01	4.1000e+00
147	IHT0000020	-0.0234	0.1719	0.0352	9.0412e-02	4.1000e+00
148	IHT0000021	-1.3888	-0.6075	-1.0020	1.8292e-01	4.1000e+00
149	IHT0000022	-0.1953	0.3906	0.0156	9.5357e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.1053	8.8585e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9572	7.5283e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3717	7.2866e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0761	6.2265e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1287	8.2393e-02	4.1000e+00
155	IHT0000028	-0.0047	0.1906	0.0539	9.0412e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	0.0000	0.3906	0.0977	1.0625e-01	4.1000e+00
157	IHT0000030	0.0000	0.1953	0.0781	9.6655e-02	4.1000e+00
158	IHT0000031	0.0400	0.4306	0.2314	8.3612e-02	4.1000e+00
159	IHT0000032	-0.0353	0.3553	0.1522	7.8523e-02	4.1000e+00
160	IHT0000033	-2.1706	-1.7800	-1.9519	7.5283e-02	4.1000e+00
161	IHT0000034	0.0000	0.3906	0.1250	1.0259e-01	4.1000e+00
162	IHT0000035	-0.0681	0.3225	0.1350	7.8523e-02	4.1000e+00
163	IHT0000036	-0.1153	0.2753	0.0956	6.6498e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.0619	77.4860	77.2570	1.7052e-01	1.9000e+00
1	TRF0000002	75.8089	76.2313	76.0158	1.3144e-01	1.9000e+00
2	TRF0000001	77.5030	78.3473	77.9441	1.8663e-01	1.9000e+00
3	TIN0000001	85.0321	85.5579	85.2738	1.5210e-01	1.9002e+00
4	TRV0000001	81.6757	82.6213	82.1989	1.9857e-01	1.9001e+00
5	TSR0000001	76.6060	77.2397	76.9797	1.4513e-01	1.9000e+00
6	TAO020136	82.7792	83.8329	83.3083	2.8374e-01	1.9001e+00
7	TAO050136	83.0817	83.8162	83.4616	1.7721e-01	1.9001e+00
8	TAO070136	77.2343	78.1884	77.7536	2.0677e-01	1.9000e+00
9	TAO080136	81.9957	82.7302	82.4049	1.6336e-01	1.9001e+00
10	TAO090136	82.8940	83.6300	83.2242	1.7646e-01	1.9001e+00
11	TAO100136	82.7045	83.4409	83.1190	1.7708e-01	1.9001e+00
12	TAO105136	85.3163	86.0522	85.6761	1.8645e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0876	1.0620e-01	1.9011e+00
14	TAO115136	82.3261	83.2782	82.7812	2.3314e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.7820	4.5666e-02	1.9008e+00
16	TAO125136	84.5368	85.1670	84.8079	1.7384e-01	1.9001e+00
17	TAO130136	82.8939	83.3150	83.0857	1.2516e-01	1.9001e+00
18	EMPTY	232.5953	248.4463	240.2876	3.5761e+00	1.9385e+00
19	TAO130048	84.3347	84.9646	84.5638	1.5404e-01	1.9001e+00
20	TAO130224	80.3258	81.0640	80.7412	1.6421e-01	1.9001e+00
21	EMPTY	-489.0104	488.2594	-488.6649	2.4979e-01	2.0546e+00
22	TAO120312	82.7826	83.4144	83.1048	1.6670e-01	1.9001e+00
23	TAO130312	83.4169	83.9426	83.6714	1.4573e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.5420	1.8873e-01	1.9009e+00
25	TRT070000	83.1521	83.7849	83.4834	1.6927e-01	1.9001e+00
26	TRT100000	83.8039	84.6441	84.2681	2.1116e-01	1.9001e+00
27	TRT120000	83.3476	83.9786	83.5980	1.4706e-01	1.9001e+00
28	TRT125000	86.0375	86.7692	86.3997	1.5556e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9054	1.1381e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9178	1.8980e-01	1.9011e+00
31	TAF050136	84.1970	84.9314	84.5475	1.7311e-01	1.9001e+00
32	TAF070136	83.1982	84.0370	83.6573	1.9383e-01	1.9001e+00
33	TAF080136	82.8091	83.4376	83.0711	1.4267e-01	1.9001e+00
34	TAF090136	82.6132	83.5592	83.0988	2.7190e-01	1.9001e+00
35	TAF100136	83.0247	83.8669	83.4395	1.7976e-01	1.9001e+00
36	TAF105136	83.6299	84.7798	84.2212	2.8827e-01	1.9001e+00
37	TAF110136	81.7935	82.3194	82.0482	1.5181e-01	1.9001e+00
38	TAF115136	84.6950	85.4300	85.1212	1.9366e-01	1.9002e+00
39	TAF120136	84.1802	84.8099	84.4762	1.5680e-01	1.9001e+00
40	TAF125136	83.1449	83.9840	83.6209	1.5608e-01	1.9001e+00
41	TAF130136	83.1182	83.7494	83.3560	1.5594e-01	1.9001e+00
42	TAF120048	82.7780	83.7305	83.1647	2.2279e-01	1.9001e+00
43	TAF130048	83.5011	83.9219	83.7094	1.2668e-01	1.9001e+00
44	TAF120224	83.0765	84.0238	83.5375	1.8768e-01	1.9001e+00
45	TAF130224	83.0288	83.6616	83.3389	1.5876e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5615	1.8933e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6801	1.1279e-01	1.9010e+00
48	TAI130048	83.1621	84.3198	83.7871	3.1202e-01	1.9001e+00
49	EMPTY	30.3254	31.0376	30.7718	1.6362e-01	1.9006e+00
50	TAI130224	82.8233	84.0885	83.4834	2.9210e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2227	1.8860e-01	1.9010e+00
52	TRR130000	82.6615	83.8169	83.2645	2.5440e-01	1.9001e+00
53	TSI0000001	45.2858	46.3699	45.9038	2.0229e-01	1.9004e+00
54	TSI0000002	62.2992	63.7952	63.1905	3.2910e-01	1.9000e+00
55	TSO0000001	46.0512	47.3589	46.6595	2.8452e-01	1.9004e+00
56	TSO0000002	69.7098	70.7733	70.1927	2.2562e-01	1.9000e+00
57	TAF020136	76.3541	77.2031	76.7681	1.9805e-01	1.9000e+00
58	TAF120312	84.5047	85.5530	84.9810	2.6981e-01	1.9002e+00
59	TAF130312	82.2907	82.9216	82.5705	1.8337e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3460	1.7115e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3610	1.1714e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3753	1.7115e-03	0.0000e+00
63	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2957	2.4484e-03	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3173	6.9053e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3321	6.9053e-04	0.0000e+00
67	EMPTY	0.3516	0.3516	0.3516	0.0000e+00	0.0000e+00
68	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
69	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4005	6.9053e-04	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4249	6.9053e-04	0.0000e+00
72	EMPTY	0.4395	0.4395	0.4395	0.0000e+00	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4591	6.9053e-04	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4752	2.3008e-03	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5083	1.4797e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5289	2.3008e-03	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5519	6.9053e-04	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5760	9.6655e-04	0.0000e+00
80	PAN020136	24.8379	26.5164	25.5627	4.1481e-01	8.7234e-01
81	PAN050136	49.1831	50.5564	49.8423	3.3832e-01	1.6846e+00
82	PAN070136	37.5804	38.3434	37.8963	1.9191e-01	8.7514e-01
83	PAN080136	15.8530	16.3108	16.1140	1.1544e-01	8.7093e-01
84	PAN090136	16.7805	17.3909	17.0170	1.2640e-01	8.7104e-01
85	PAN100136	15.4283	15.8861	15.7076	1.3224e-01	8.7089e-01
86	PAN105136	7.8040	8.2617	8.0664	1.1755e-01	8.7023e-01
87	PAN110136	8.4941	8.9519	8.6895	1.0807e-01	8.7027e-01
88	PAN115136	12.7666	13.3007	12.9741	1.1539e-01	8.7060e-01
89	PAN120136	6.2183	6.6760	6.4380	1.0413e-01	8.7015e-01
90	PAN125136	9.3859	9.9199	9.6773	1.2493e-01	8.7034e-01
91	PAN130136	6.9749	7.5852	7.2983	1.4005e-01	8.7019e-01
92	PAN120048	16.4771	17.1637	16.8066	1.7805e-01	8.7101e-01
93	PAN130048	16.1591	16.7694	16.4444	1.3856e-01	8.7097e-01
94	PAN120224	19.8680	20.3258	20.0923	1.1881e-01	8.7145e-01
95	PAN130224	16.9496	17.4836	17.2136	9.7740e-02	8.7106e-01
96	PAN120312	18.2070	18.6648	18.4603	1.3651e-01	8.7122e-01
97	PAN130312	16.4542	16.8357	16.6434	1.0706e-01	8.7099e-01
98	PAB000136	40.3163	40.6367	40.4646	7.1373e-02	5.8876e-01
99	PAB100136	34.7371	34.9660	34.8643	5.1732e-02	5.8651e-01
100	PAB125136	33.0979	33.2810	33.1867	4.6619e-02	5.8590e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.1948	40.6830	40.4023	1.1892e-01	7.5677e-01
102	PRV0000001	19.5752	19.5752	19.5752	1.3487e-05	7.5159e-01
103	PSR0000001	31.1690	31.2910	31.2691	4.7374e-02	7.5406e-01
104	PFM0000001	52.2404	53.3391	52.7312	2.4452e-01	5.1709e-01
105	PAN000136	212.9507	219.3594	216.2008	1.2621e+00	4.9496e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0080	2.3675e-03	0.0000e+00
108	EMPTY	-5.7568	-3.8818	-5.0707	5.3750e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0010	1.9730e-03	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1598	8.5454e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0988	7.5283e-02	8.1000e-01
114	VPW0000003	-0.1153	0.2753	0.1269	9.3043e-02	8.1000e-01
115	VPW0000004	-0.0353	0.1600	0.0858	9.5765e-02	8.1000e-01
116	VPW0000005	0.0800	0.2753	0.1542	9.5765e-02	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1631	1.0410e-01	8.1000e-01
118	IPW0000001	-1.5525	4.3045	1.0246	1.1459e+00	8.1000e+00
119	IPW0000002	-1.5516	4.3022	1.2192	1.1213e+00	8.1000e+00
120	IPW0000003	1.1513	5.0513	2.9843	1.2085e+00	8.1000e+00
121	IPW0000004	-0.1883	0.7883	0.6516	2.4244e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.1265	2.6394e-01	2.0000e+00
123	IPW0000006	-0.2883	1.1766	0.3172	2.5266e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0206	3.0067e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.7124e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0170	2.9986e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0142	3.1583e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0328	9.3043e-02	4.1000e+00
129	IHT0000002	0.0706	0.2659	0.1644	9.8569e-02	4.1000e+00
130	IHT0000003	0.0259	0.2212	0.1275	9.8569e-02	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1436	6.1257e-02	4.1000e+00
132	IHT0000005	0.0753	0.2706	0.1456	9.4702e-02	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2064	8.3612e-02	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1220	9.7377e-02	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1064	9.3461e-02	4.1000e+00
136	IHT0000009	-0.1200	0.0753	0.0284	8.4262e-02	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1202	9.4125e-02	4.1000e+00
138	IHT0000011	-0.1953	0.1953	0.0625	1.0014e-01	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0914	9.3461e-02	4.1000e+00
140	IHT0000013	-0.2047	0.1859	0.0609	1.0259e-01	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1153	7.8918e-02	4.1000e+00
142	IHT0000015	0.0353	0.2306	0.0705	7.5798e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	-0.0019	9.6655e-02	4.1000e+00
144	IHT0000017	0.1694	1.1459	0.6420	2.4984e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.0741	9.7935e-02	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1169	7.8523e-02	4.1000e+00
147	IHT0000020	-0.0234	0.1719	0.0352	9.0412e-02	4.1000e+00
148	IHT0000021	-1.3888	-0.8028	-0.9825	1.6667e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.1053	8.8585e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9572	7.5283e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3795	9.0412e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0800	6.8345e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
155	IHT0000028	-0.0047	0.3859	0.0578	1.0014e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	0.0000	0.3906	0.0938	1.0617e-01	4.1000e+00
157	IHT0000030	0.0000	0.1953	0.0742	9.5765e-02	4.1000e+00
158	IHT0000031	0.0400	0.4306	0.2119	7.5283e-02	4.1000e+00
159	IHT0000032	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
160	IHT0000033	-2.1706	-1.7800	-1.9597	7.7324e-02	4.1000e+00
161	IHT0000034	0.0000	0.1953	0.1133	9.7377e-02	4.1000e+00
162	IHT0000035	-0.0681	0.3225	0.1272	6.8345e-02	4.1000e+00
163	IHT0000036	-0.1153	0.2753	0.0956	6.6498e-02	4.1000e+00

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Velocity 1 - 16.6172 (ft/sec) (+/- 3.5193 %)
 Velocity 2 - 13.3634 (ft/sec) (+/- 3.4861 %)
 Pressure drop - 5.5936 (psi)
 Tsat in - 268.2207 (deg F) Tsat out - 260.2458 (deg F)
 Phi inner - 0.0001 (kBtu/hr-ft2) (+/- 1114.8191 %)
 Phi outer - 0.0001 (kBtu/hr-ft2) (+/- 888.0481 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.0619	77.6980	77.3333	1.7159e-01	1.9000e+00
1	TRF0000002	75.8089	76.2313	76.0750	1.3363e-01	1.9000e+00
2	TFM0000001	77.7144	78.5580	78.1635	1.9959e-01	1.9000e+00
3	TIN0000001	85.1375	85.8728	85.5177	1.7234e-01	1.9002e+00
4	TRV0000001	81.9906	82.7263	82.3796	2.0709e-01	1.9001e+00
5	TSR0000001	76.6060	77.3457	77.0095	1.7680e-01	1.9000e+00
6	TMO020136	82.8843	84.0437	83.3967	2.4750e-01	1.9001e+00
7	TMO050136	83.2910	84.0248	83.7047	1.6611e-01	1.9001e+00
8	TMO070136	77.4458	78.1884	77.8213	2.0566e-01	1.9000e+00
9	TMO080136	82.3099	82.9392	82.5895	1.4783e-01	1.9001e+00
10	TMO090136	83.1040	83.9453	83.4805	1.9353e-01	1.9001e+00
11	TAO100136	83.0199	83.7565	83.2999	1.5709e-01	1.9001e+00
12	TAO105136	85.5265	86.2624	85.8989	1.8045e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.0876	9.5554e-02	1.9011e+00
14	TAO115136	82.5389	83.3832	82.9968	1.9630e-01	1.9001e+00
15	EMPTY	34.5420	34.7728	34.7543	6.3238e-02	1.9008e+00
16	TAO125136	84.7466	85.2724	85.0178	1.2219e-01	1.9002e+00
17	TAO130136	82.8939	83.5222	83.2525	1.6238e-01	1.9001e+00
18	EMPTY	229.3957	239.7115	234.7477	2.3478e+00	1.9368e+00
19	TAO130048	84.4396	85.0699	84.7525	1.6075e-01	1.9001e+00
20	TAO120224	80.6418	81.3798	80.9731	1.8447e-01	1.9001e+00
21	EMPTY	-456.7448	-456.0126	-456.2394	2.5501e-01	2.0354e+00
22	TAO120312	82.8877	83.7303	83.3070	1.7474e-01	1.9001e+00
23	TAO130312	83.4175	84.2578	83.8310	1.6361e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5236	1.5700e-01	1.9009e+00
25	TRT070000	83.1521	83.9967	83.6948	1.8475e-01	1.9001e+00
26	TRT100000	84.1186	84.7495	84.4318	1.7938e-01	1.9001e+00
27	TRT120000	83.4525	84.0841	83.8292	1.3952e-01	1.9001e+00
28	TRT125000	86.1422	86.8744	86.5169	1.6528e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.8594	1.1381e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9316	2.0256e-01	1.9011e+00
31	TAF050136	84.4073	85.0368	84.7572	1.7562e-01	1.9001e+00
32	TAF070136	83.5122	84.2458	83.8333	1.9080e-01	1.9001e+00
33	TAF080136	82.9128	83.5431	83.2762	1.6441e-01	1.9001e+00
34	TAF090136	82.9282	83.7696	83.3049	2.3371e-01	1.9001e+00
35	TAF100136	83.2353	84.0779	83.6922	1.8855e-01	1.9001e+00
36	TAF105136	83.9440	84.8834	84.4262	2.1920e-01	1.9001e+00
37	TAF110136	81.8986	82.5301	82.2498	1.3539e-01	1.9001e+00
38	TAF115136	84.9047	85.7444	85.3604	2.1264e-01	1.9002e+00
39	TAF120136	84.3894	84.9153	84.6690	1.2494e-01	1.9001e+00
40	TAF125136	83.4590	84.0895	83.7844	1.7633e-01	1.9001e+00
41	TAF130136	83.1182	83.9601	83.5537	1.6876e-01	1.9001e+00
42	TAF120048	82.8830	83.7305	83.3721	1.9823e-01	1.9001e+00
43	TAF130048	83.7115	84.2377	83.9829	1.1469e-01	1.9001e+00
44	TAF120224	83.2870	84.1287	83.7185	1.5511e-01	1.9001e+00
45	TAF130224	83.2407	83.8734	83.5165	1.2392e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5661	2.1467e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7031	1.0433e-01	1.9010e+00
48	TAI130048	83.2670	84.6350	84.0313	2.9289e-01	1.9001e+00
49	EMPTY	30.3254	31.2749	30.8525	1.8751e-01	1.9006e+00
50	TAI130224	83.2444	84.2994	83.7028	2.7175e-01	1.9001e+00
51	EMPTY	37.7675	38.4572	38.2319	1.8861e-01	1.9010e+00
52	TRR130000	83.0813	83.9218	83.4577	2.4288e-01	1.9001e+00
53	TSI0000001	45.8280	46.4787	46.1335	1.4647e-01	1.9004e+00
54	TSI0C0002	62.2992	63.4750	62.9002	2.8957e-01	1.9000e+00
55	TSO0000001	46.0512	47.1409	46.5937	2.3233e-01	1.9004e+00
56	TSO0000002	69.8165	70.6673	70.2055	2.1979e-01	1.9000e+00
57	TAF020136	76.4597	77.3091	76.8358	1.8742e-01	1.9000e+00
58	TAF120312	84.7143	85.7636	85.2117	2.6099e-01	1.9002e+00
59	TAF130312	82.3953	83.2366	82.7930	1.6485e-01	1.9001e+00
60	EMPTY	0.3467	0.3516	0.3474	1.7115e-03	0.0000e+00
61	EMPTY	0.3613	0.3662	0.3629	2.3008e-03	0.0000e+00
62	EMPTY	0.3760	0.3809	0.3762	9.6655e-04	0.0000e+00
63	EMPTY	0.3906	0.4004	0.3950	1.7784e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2971	1.8082e-03	0.0000e+00
65	EMPTY	0.3174	0.3174	0.3174	0.0000e+00	0.0000e+00
66	EMPTY	0.3320	0.3418	0.3335	2.4662e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3517	6.9053e-04	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3664	9.6655e-04	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4006	9.6655e-04	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4249	6.9053e-04	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4396	6.9053e-04	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4596	1.6028e-03	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4761	2.4662e-03	0.0000e+00
75	EMPTY	0.4883	0.4980	0.4932	9.8648e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5086	1.8082e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5291	2.3675e-03	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5519	6.9053e-04	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5763	6.9053e-04	0.0000e+00
80	PAN020136	17.5900	18.9633	18.3209	2.5049e-01	8.7120e-01
81	PAN050136	34.5347	35.6028	35.1542	2.7643e-01	1.6823e+00
82	PAN070136	26.7467	27.8148	27.2609	2.7348e-01	8.7267e-01
83	PAN080136	10.7413	11.7332	11.2296	2.9083e-01	8.7045e-01
84	PAN090136	11.8214	12.4318	12.1876	1.1939e-01	8.7053e-01
85	PAN100136	11.3085	11.8425	11.6182	1.2177e-01	8.7048e-01
86	PAN105136	5.5914	6.0492	5.7745	9.9892e-02	8.7012e-01
87	PAN110136	5.9764	6.5105	6.2130	1.2827e-01	8.7014e-01
88	PAN115136	9.1045	9.7148	9.3990	1.3787e-01	8.7032e-01
89	PAN120136	4.3872	4.9976	4.6191	1.4538e-01	8.7008e-01
90	PAN125136	6.3341	7.0208	6.7156	1.3613e-01	8.7016e-01
91	PAN130136	5.0675	5.8304	5.4536	1.9153e-01	8.7011e-01
92	PAN120048	11.8231	12.7386	12.3145	1.9568e-01	8.7054e-01
93	PAN130048	11.5051	11.9629	11.7310	1.1633e-01	8.7049e-01
94	PAN120224	14.1460	14.6801	14.3886	1.2959e-01	8.7074e-01
95	PAN130224	11.6853	12.4482	12.0714	1.8966e-01	8.7052e-01
96	PAN120312	12.4087	13.4005	13.0251	2.5507e-01	8.7061e-01
97	PAN130312	11.4951	11.8766	11.6706	8.8880e-02	8.7049e-01
98	PAB000136	40.4536	40.6825	40.5754	5.8205e-02	5.8880e-01
99	PAB100136	36.5681	36.7512	36.6652	4.5907e-02	5.8720e-01
100	PAB125136	35.3867	35.5241	35.4691	3.8131e-02	5.8674e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.4389	40.6830	40.5561	8.1646e-02	7.5682e-01
102	PRV0000001	19.6973	19.8194	19.6997	1.7263e-02	7.5162e-01
103	PSR0000001	33.8545	34.0987	33.9277	6.5249e-02	7.5478e-01
104	PFH0000001	42.7189	43.4514	43.0522	2.1788e-01	5.1145e-01
105	PAN000136	152.5259	156.6458	154.8605	9.4879e-01	4.9352e+00
106	PFH0000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0070	2.4484e-03	0.0000e+00
108	EMPTY	-5.8545	-3.8428	-5.0120	6.2584e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0005	1.4797e-03	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1403	7.7324e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0870	9.1779e-02	8.1000e-01
114	VPW0000003	-0.1153	0.2753	0.1308	9.5112e-02	8.1000e-01
115	VPW0000004	-0.2306	0.1600	0.0663	1.0617e-01	8.1000e-01
116	VPW0000005	0.0800	0.4706	0.1464	1.0145e-01	8.1000e-01
117	VPW0000006	-0.0400	0.5459	0.1514	1.0799e-01	8.1000e-01
118	IPW0000001	0.3998	4.3045	1.5322	1.1219e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.7118	1.2061e+00	8.1000e+00
120	IPW0000003	-0.7987	3.1013	1.1123	1.0782e+00	8.1000e+00
121	IPW0000004	-0.1883	0.7883	0.2902	1.8429e-01	2.0000e+00
122	IPW0000005	0.4000	0.8882	0.6343	2.4640e-01	2.0000e+00
123	IPW0000006	-0.7766	0.6883	0.0438	3.0309e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0190	3.7239e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.8334e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	3.0501e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0137	2.9594e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0289	9.8963e-02	4.1000e+00
129	IHT0000002	0.0706	0.2659	0.1722	9.8569e-02	4.1000e+00
130	IHT0000003	0.0259	0.2212	0.1236	9.8648e-02	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1631	6.7888e-02	4.1000e+00
132	IHT0000005	0.0753	0.6612	0.1769	1.2627e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2103	9.6332e-02	4.1000e+00
134	IHT0000007	0.0400	0.4306	0.1494	1.0559e-01	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1377	9.8648e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0441	9.1354e-02	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1006	9.6976e-02	4.1000e+00
138	IHT0000011	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00
139	IHT0000012	-0.0375	0.3531	0.0719	1.0559e-01	4.1000e+00
140	IHT0000013	-0.2047	0.1859	0.0141	9.3710e-02	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1036	8.2864e-02	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0627	9.6735e-02	4.1000e+00
143	IHT0000016	-0.0800	0.1153	-0.0292	8.6541e-02	4.1000e+00
144	IHT0000017	0.3647	1.1459	0.6303	2.1526e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.1170	8.1729e-02	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1247	6.8345e-02	4.1000e+00
147	IHT0000020	-0.0234	0.1719	0.0273	8.6541e-02	4.1000e+00
148	IHT0000021	-1.1934	-0.6075	-0.8927	1.2608e-01	4.1000e+00
149	IHT0000022	0.0000	0.1953	0.0234	6.4113e-02	4.1000e+00
150	IHT0000023	-0.0353	0.3553	0.1170	9.0756e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9884	9.6332e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3561	1.0052e-01	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0956	6.6498e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1366	8.4997e-02	4.1000e+00
155	IHT0000028	-0.2000	0.1906	0.0578	1.0763e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	0.0000	0.1953	0.0898	9.8332e-02	4.1000e+00
157	IHT0000030	0.0000	0.3906	0.0938	1.0617e-01	4.1000e+00
158	IHT0000031	0.0400	0.4306	0.2119	1.0168e-01	4.1000e+00
159	IHT0000032	-0.0353	0.3553	0.1366	9.3710e-02	4.1000e+00
160	IHT0000033	-2.1706	-1.7800	-1.9323	9.8963e-02	4.1000e+00
161	IHT0000034	0.0000	0.3906	0.1445	1.1712e-01	4.1000e+00
162	IHT0000035	-0.0681	0.3225	0.1428	9.5357e-02	4.1000e+00
163	IHT0000036	-0.1153	0.2753	0.0995	7.1136e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.0619	77.6980	77.4478	1.9951e-01	1.9000e+00
1	TRF0000002	76.0201	76.4424	76.1594	1.2518e-01	1.9000e+00
2	TFM0000001	77.5030	78.5586	78.0648	2.4160e-01	1.9000e+00
3	TIN0000001	85.0320	85.7680	85.3979	1.5060e-01	1.9002e+00
4	TRV0000001	81.7817	82.6222	82.2647	2.0683e-01	1.9001e+00
5	TSR0000001	76.8171	77.3457	77.0921	1.5394e-01	1.9000e+00
6	TAO020136	82.9898	84.0437	83.4830	2.7227e-01	1.9001e+00
7	TAO050136	83.1867	83.8174	83.5526	1.5768e-01	1.9001e+00
8	TAO070136	77.4458	78.3997	77.9292	2.1320e-01	1.9000e+00
9	TAO080136	82.2058	82.7317	82.4627	1.7519e-01	1.9001e+00
10	TAO090136	82.9996	83.6300	83.3108	1.5603e-01	1.9001e+00
11	TAO100136	82.8101	83.5464	83.1635	1.6019e-01	1.9001e+00
12	TAO105136	85.3162	86.0527	85.7160	1.6878e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1151	1.0660e-01	1.9011e+00
14	TAO115136	82.5378	83.3832	82.9265	2.2028e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8420	1.0679e-01	1.9008e+00
16	TAO125136	84.6417	85.0627	84.8985	1.2601e-01	1.9001e+00
17	TAO130136	82.8966	83.4205	83.1069	1.4512e-01	1.9001e+00
18	EMPTY	236.7212	255.8232	244.0366	4.7370e+00	1.9397e+00
19	TAO130048	84.3351	84.8607	84.6337	1.5788e-01	1.9001e+00
20	TAO120224	80.5368	81.2748	80.8489	1.9753e-01	1.9001e+00
21	EMPTY	-465.1952	-464.8266	-465.0773	1.7368e-01	2.0405e+00
22	TAO120312	82.8877	83.5198	83.2122	1.5758e-01	1.9001e+00
23	TAO130312	83.3131	83.9432	83.6992	1.6910e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5696	1.8597e-01	1.9010e+00
25	TRT070000	83.2571	83.8904	83.6031	1.6666e-01	1.9001e+00
26	TRT100000	83.9089	84.7495	84.3042	2.0194e-01	1.9001e+00
27	TRT120000	83.3473	84.0841	83.6802	1.6378e-01	1.9001e+00
28	TRT125000	86.1422	86.9796	86.4780	2.0262e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9192	1.004e-01	1.9010e+00
30	EMPTY	39.3761	40.2940	39.8902	2.1527e-01	1.9011e+00
31	TAF050136	84.3019	84.9323	84.6551	1.7459e-01	1.9001e+00
32	TAF070136	83.3032	84.1424	83.7107	1.9356e-01	1.9001e+00
33	TAF080136	82.8091	83.4394	83.1373	1.6232e-01	1.9001e+00
34	TAF090136	82.5080	83.6649	83.1348	2.5758e-01	1.9001e+00
35	TAF100136	83.0246	83.9723	83.5048	1.8928e-01	1.9001e+00
36	TAF105136	83.7354	84.8852	84.3499	2.5910e-01	1.9001e+00
37	TAF110136	81.7945	82.3205	82.1518	1.3790e-01	1.9001e+00
38	TAF115136	84.9052	85.6395	85.2244	1.7216e-01	1.9002e+00
39	TAF120136	84.2851	84.7062	84.5461	1.2073e-01	1.9001e+00
40	TAF125136	83.3554	84.0895	83.6743	1.5577e-01	1.9001e+00
41	TAF130136	83.0128	83.6446	83.4340	1.5338e-01	1.9001e+00
42	TAF120048	82.6708	83.7288	83.2292	2.4303e-01	1.9001e+00
43	TAF130048	83.6060	84.2377	83.8714	1.4307e-01	1.9001e+00
44	TAF120224	83.2871	84.0238	83.6365	1.8714e-01	1.9001e+00
45	TAF130224	83.1338	83.6621	83.4162	1.2506e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5661	2.1467e-01	1.9009e+00
47	EMPTY	37.3074	37.9974	37.6709	1.3218e-01	1.9010e+00
48	TAI130048	83.1615	84.5301	83.9071	3.4005e-01	1.9001e+00
49	EMPTY	30.3254	31.2749	30.8762	1.9443e-01	1.9006e+00
50	TAI130224	82.9283	84.1939	83.5991	3.0797e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2733	1.5403e-01	1.9010e+00
52	TNR130000	82.7665	84.0273	83.4350	2.3318e-01	1.9001e+00
53	TSI0000001	45.8280	46.5869	46.2399	1.6688e-01	1.9004e+00
54	TSI0000002	62.2992	63.5822	62.7829	3.1379e-01	1.9000e+00
55	TSO0000001	46.2688	47.3578	46.7132	2.4881e-01	1.9004e+00
56	TSO0000002	69.8159	70.6673	70.2715	1.9230e-01	1.9000e+00
57	TAF020136	76.4584	77.2036	76.9055	1.7833e-01	1.9000e+00
58	TAF120312	84.4000	85.5542	85.0130	3.1310e-01	1.9002e+00
59	TAF130312	82.2912	83.0271	82.6363	1.8013e-01	1.9001e+00
60	EMPTY	0.3369	0.3467	0.3425	1.9754e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3572	1.8082e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3713	9.6655e-04	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3872	2.2603e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2931	6.9053e-04	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3132	1.7115e-03	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3313	1.7115e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3494	2.4484e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3642	2.4344e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3814	1.6028e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3990	2.2146e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4221	2.4484e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4362	2.3365e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4573	2.3365e-03	0.0000e+00
74	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4928	1.3381e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5074	1.3381e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5272	6.9053e-04	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5498	2.4164e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5714	6.9053e-04	0.0000e+00
80	PAN020136	10.0369	11.6390	10.6976	2.7556e-01	8.7041e-01
81	PAN050136	20.6492	21.5647	21.0947	2.1098e-01	1.6808e+00
82	PAN070136	16.1418	17.0574	16.5279	1.9583e-01	8.7098e-01
83	PAN080136	6.4689	6.9266	6.6794	1.1592e-01	8.7016e-01
84	PAN090136	7.0912	7.5490	7.2819	9.7789e-02	8.7019e-01
85	PAN100136	6.2731	6.7308	6.5813	1.1427e-01	8.7016e-01
86	PAN105136	2.9974	3.4552	3.1912	1.0702e-01	8.7004e-01
87	PAN110136	3.6113	3.8402	3.7181	8.0092e-02	8.7005e-01
88	PAN115136	6.3579	6.8920	6.6860	1.0019e-01	8.7016e-01
89	PAN120136	1.7932	2.2510	2.0221	1.1115e-01	8.7001e-01
90	PAN125136	4.3505	4.7319	4.5519	8.8222e-02	8.7007e-01
91	PAN130136	2.6261	3.0839	2.9313	9.3758e-02	8.7003e-01
92	PAN120048	7.0166	7.3981	7.2256	9.8467e-02	8.7019e-01
93	PAN130048	6.4697	6.9275	6.7215	1.0595e-01	8.7016e-01
94	PAN120224	8.8054	9.2632	9.0221	9.7923e-02	8.7029e-01
95	PAN130224	7.1840	7.6417	7.4754	1.0071e-01	8.7020e-01
96	PAN120312	8.0599	8.5940	8.3026	1.2008e-01	8.7025e-01
97	PAN130312	6.8412	7.2227	6.9709	9.8996e-02	8.7017e-01
98	PAB000136	40.4994	40.6825	40.5580	4.6278e-02	5.8880e-01
99	PAB100136	38.2618	38.4450	38.3415	4.2189e-02	5.8787e-01
100	PAB125136	37.5382	37.6755	37.6096	4.4507e-02	5.8757e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.4389	40.8051	40.5561	8.5289e-02	7.5682e-01
102	PRV0000001	19.5752	19.6973	19.5777	1.7263e-02	7.5160e-01
103	PSR0000001	36.2959	36.4180	36.4155	1.7263e-02	7.5551e-01
104	PFM0000001	33.0144	33.7468	33.4300	1.7074e-01	5.0694e-01
105	PAN000136	90.7278	95.7632	92.7053	9.4513e-01	4.9255e+00
106	PFM0000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
108	EMPTY	-5.8838	-3.9551	-5.0581	6.0887e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1481	1.0168e-01	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.1417	1.0145e-01	8.1000e-01
114	VPW0000003	0.0800	0.2753	0.1386	9.0412e-02	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0545	1.0595e-01	8.1000e-01
116	VPW0000005	-0.1153	0.2753	0.1503	1.0259e-01	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1553	9.6655e-02	8.1000e-01
118	IPW0000001	0.3998	4.3045	1.6103	1.1079e+00	8.1000e+00
119	IPW0000002	-1.5516	2.3509	0.7899	1.0430e+00	8.1000e+00
120	IPW0000003	-0.7987	3.1013	0.8393	1.0688e+00	8.1000e+00
121	IPW0000004	-0.1883	0.7883	0.3195	1.6972e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.5660	2.5360e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.0438	2.8659e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0198	3.3322e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0129	3.0819e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0167	2.8058e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0141	3.3656e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0328	9.3043e-02	4.1000e+00
129	IHT0000002	-0.1247	0.2659	0.1566	1.0559e-01	4.1000e+00
130	IHT0000003	0.0259	0.4166	0.1314	1.0595e-01	4.1000e+00
131	IHT0000004	-0.0400	0.3506	0.1827	8.8321e-02	4.1000e+00
132	IHT0000005	-0.1200	0.4659	0.1456	1.0992e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.1986	1.0052e-01	4.1000e+00
134	IHT0000007	0.0400	0.4306	0.1337	1.1327e-01	4.1000e+00
135	IHT0000008	0.0400	0.2353	0.1181	9.6655e-02	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0245	1.0297e-01	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1358	9.0412e-02	4.1000e+00
138	IHT0000011	0.0000	0.3906	0.0820	1.1223e-01	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0992	9.0412e-02	4.1000e+00
140	IHT0000013	-0.0094	0.3813	0.0570	1.0145e-01	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1192	1.0052e-01	4.1000e+00
142	IHT0000015	0.0353	0.2306	0.0705	7.5798e-02	4.1000e+00
143	IHT0000016	-0.0800	0.3106	-0.0019	1.0440e-01	4.1000e+00
144	IHT0000017	0.1694	0.9506	0.6537	2.2750e-01	4.1000e+00
145	IHT0000018	-0.0353	0.3553	0.1092	1.1027e-01	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.1013	8.4997e-02	4.1000e+00
147	IHT0000020	-0.0234	0.1719	0.0664	9.8332e-02	4.1000e+00
148	IHT0000021	-1.1934	-0.6075	-0.8927	1.4342e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
150	IHT0000023	-0.0353	0.1600	0.1248	7.5798e-02	4.1000e+00
151	IHT0000024	0.7853	1.1759	1.0041	9.3710e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3678	7.8523e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.0878	7.8523e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1483	7.2866e-02	4.1000e+00
155	IHT0000028	-0.0047	0.1906	0.0500	8.8585e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	0.0000	0.3906	0.0820	1.0507e-01	4.1000e+00
157	IHT0000030	0.0000	0.1953	0.0703	9.4702e-02	4.1000e+00
158	IHT0000031	0.0400	0.4306	0.2119	8.4997e-02	4.1000e+00
159	IHT0000032	-0.0353	0.3553	0.1209	9.6655e-02	4.1000e+00
160	IHT0000033	-1.9753	-1.7800	-1.9519	6.4113e-02	4.1000e+00
161	IHT0000034	0.0000	0.3906	0.1133	1.0507e-01	4.1000e+00
162	IHT0000035	-0.0681	0.3225	0.1350	7.8523e-02	4.1000e+00
163	IHT0000036	-0.1153	0.2753	0.0995	7.1136e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.0619	77.9100	77.5241	1.8519e-01	1.9000e+00
1	TRF0000002	76.0201	76.6535	76.2439	1.4409e-01	1.9000e+00
2	TFM0000001	77.5042	78.5586	78.1409	2.3437e-01	1.9000e+00
3	TIN0000001	85.1374	85.7673	85.4693	1.4615e-01	1.9002e+00
4	TRV0000001	81.8864	82.6226	82.2944	1.9178e-01	1.9001e+00
5	TSR0000001	76.8176	77.4512	77.1893	1.5995e-01	1.9000e+00
6	TAO020136	83.2003	84.1482	83.5841	2.4525e-01	1.9001e+00
7	TAO050136	83.3971	84.0272	83.6242	1.7022e-01	1.9001e+00
8	TAO070136	77.4453	78.2938	77.9501	2.3410e-01	1.9000e+00
9	TAO080136	82.2064	82.9417	82.5929	1.7928e-01	1.9001e+00
10	TAO090136	82.7896	83.8404	83.3824	1.9996e-01	1.9001e+00
11	TAO100136	82.8101	83.6519	83.2602	1.8040e-01	1.9001e+00
12	TAO105136	85.3162	86.3676	85.7369	2.0698e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1014	1.0731e-01	1.9011e+00
14	TAO115136	82.3261	83.3821	82.9345	2.4203e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8558	1.1186e-01	1.9008e+00
16	TAO125136	84.6421	85.3772	84.9532	1.7493e-01	1.9002e+00
17	TAO130136	82.7953	83.5255	83.1330	1.4475e-01	1.9001e+00
18	EMPTY	224.1039	246.0376	234.7575	4.9249e+00	1.9368e+00
19	TAO130048	84.3356	84.9660	84.6591	1.7341e-01	1.9001e+00
20	TAO120224	80.3260	81.5906	80.9332	2.3957e-01	1.9001e+00
21	EMPTY	478.9091	478.5365	478.6407	1.6900e-01	2.0485e+00
22	TAO120312	82.8876	83.6253	83.2711	1.9237e-01	1.9001e+00
23	TAO130312	83.3131	84.1530	83.7497	1.8312e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5650	1.9521e-01	1.9010e+00
25	TRT070000	83.1507	83.8904	83.6492	1.7459e-01	1.9001e+00
26	TRT100000	84.0143	84.8549	84.4261	1.8719e-01	1.9001e+00
27	TRT120000	83.3478	84.0841	83.7685	1.6187e-01	1.9001e+00
28	TRT125000	86.1442	86.8759	86.5411	1.7677e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9422	1.1899e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9453	1.7494e-01	1.9011e+00
31	TAF050136	84.3028	85.0377	84.7056	1.7275e-01	1.9001e+00
32	TAF070136	83.1998	84.3522	83.7698	2.3590e-01	1.9001e+00
33	TAF080136	82.9141	83.6493	83.2297	1.7608e-01	1.9001e+00
34	TAF090136	82.7183	83.8748	83.2442	2.7779e-01	1.9001e+00
35	TAF100136	83.2353	83.9718	83.5889	1.8015e-01	1.9001e+00
36	TAF105136	83.6323	84.8865	84.3715	2.4068e-01	1.9001e+00
37	TAF110136	81.7940	82.5306	82.2234	1.6706e-01	1.9001e+00
38	TAF115136	84.9052	85.7454	85.2791	1.9334e-01	1.9002e+00
39	TAF120136	84.3899	84.9159	84.6344	1.3675e-01	1.9001e+00
40	TAF125136	83.3549	84.1944	83.7542	1.8366e-01	1.9001e+00
41	TAF130136	83.1184	83.8545	83.5055	1.7457e-01	1.9001e+00
42	TAF120048	82.7764	83.8337	83.3262	2.4551e-01	1.9001e+00
43	TAF130048	83.6066	84.2372	83.9430	1.3941e-01	1.9001e+00
44	TAF120224	83.3920	84.1293	83.7375	1.9947e-01	1.9001e+00
45	TAF130224	83.2387	83.8726	83.4793	1.4124e-01	1.9001e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5615	2.0044e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6663	1.1534e-01	1.9010e+00
48	TAI130048	83.2675	84.6350	83.9450	3.0667e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8430	1.8379e-01	1.9006e+00
50	TAI130224	82.8222	84.1939	83.6875	2.8974e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2503	1.7532e-01	1.9010e+00
52	TRR130000	83.1870	84.0273	83.5317	2.3054e-01	1.9001e+00
53	TSI0000001	45.8274	46.6951	46.2227	1.8427e-01	1.9004e+00
54	TSI0000002	62.1923	63.2619	62.7917	2.6790e-01	1.9000e+00
55	TSO0000001	46.3782	47.3578	46.7869	2.1820e-01	1.9004e+00
56	TSO0000002	70.0287	70.9860	70.4672	2.4179e-01	1.9000e+00
57	TAF020136	76.6713	77.4146	77.0114	1.8821e-01	1.9000e+00
58	TAF120312	84.6096	85.1976	84.9590	2.6595e-01	1.9002e+00
59	TAF130312	82.2912	83.1326	82.6828	1.7774e-01	1.9001e+00
60	EMPTY	0.3369	0.3467	0.3423	1.7784e-03	0.0000e+00
61	EMPTY	0.3564	0.3613	0.3571	1.7115e-03	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3714	1.1714e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3878	2.4344e-03	0.0000e+00
64	EMPTY	0.2930	0.2930	0.2930	0.0000e+00	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3126	6.9053e-04	0.0000e+00
66	EMPTY	0.3271	0.3369	0.3299	2.6396e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3481	2.2603e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3628	2.2603e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3813	1.4797e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3978	2.4583e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4212	2.1635e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4349	1.1714e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4560	2.3941e-03	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4917	2.2603e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5068	1.9730e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5271	1.1714e-03	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5485	2.3365e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5715	9.6655e-04	0.0000e+00
80	PAN020136	4.1622	5.2303	4.5605	2.3543e-01	8.7007e-01
81	PAN050136	8.2896	9.3577	8.7473	2.2015e-01	1.6801e+00
82	PAN070136	7.9021	8.4362	8.1935	1.2587e-01	8.7024e-01
83	PAN080136	1.9675	2.6542	2.3932	1.5421e-01	8.7002e-01
84	PAN090136	2.9713	3.4291	3.2063	1.0206e-01	8.7004e-01
85	PAN100136	2.3058	2.9161	2.6598	1.4522e-01	8.7003e-01
86	PAN105136	1.6241	2.0056	1.7767	8.5820e-02	8.7001e-01
87	PAN110136	1.3988	1.7803	1.5956	6.5558e-02	8.7001e-01
88	PAN115136	3.0773	3.5350	3.3153	1.0065e-01	8.7004e-01
89	PAN120136	0.8014	1.1829	1.0242	1.0089e-01	8.7000e-01
90	PAN125136	1.5276	1.8328	1.6802	9.1189e-02	8.7001e-01
91	PAN130136	1.1765	1.5580	1.3535	9.5565e-02	8.7001e-01
92	PAN120048	2.9730	3.4308	3.1912	1.0341e-01	8.7004e-01
93	PAN130048	2.8076	3.1891	3.0090	9.0876e-02	8.7003e-01
94	PAN120224	4.3041	4.7618	4.5055	8.4086e-02	8.7007e-01
95	PAN130224	2.8352	3.1404	2.9710	8.1983e-02	8.7003e-01
96	PAN120312	3.4823	3.8638	3.6730	1.0707e-01	8.7005e-01
97	PAN130312	2.4924	2.9502	2.7183	9.2431e-02	8.7003e-01
98	PAB000136	40.4536	40.7283	40.5699	5.7910e-02	5.8880e-01
99	PAB100136	39.6809	39.8640	39.7606	4.5127e-02	5.8846e-01
100	PAB125136	39.3693	39.5066	39.4242	4.3378e-02	5.8831e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.3168	40.5610	40.4389	7.7988e-02	7.5678e-01
102	PRV0000001	19.5752	19.6973	19.6924	2.4164e-02	7.5161e-01
103	PSR0000001	38.3711	38.6153	38.5420	6.5249e-02	7.5616e-01
104	PFH0000001	25.2324	25.9648	25.5418	1.6429e-01	5.0406e-01
105	PAN000136	38.5427	43.5781	40.9139	1.0118e+00	4.9211e+00
106	PFH0000002	24.2697	24.9286	24.6603	1.5640e-01	2.0929e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-5.9766	-4.2090	-5.4363	4.2018e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0047	1.3811e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	-0.0706	0.3200	0.1325	6.7888e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0948	9.8648e-02	8.1000e-01
114	VPW0000003	0.0800	0.2753	0.1542	9.5765e-02	8.1000e-01
115	VPW0000004	-0.0353	0.3553	0.0936	1.0145e-01	8.1000e-01
116	VPW0000005	0.0800	0.2753	0.1972	9.6655e-02	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1397	1.0320e-01	8.1000e-01
118	IPW0000001	0.3998	4.3045	1.4932	1.1267e+00	8.1000e+00
119	IPW0000002	1.5516	2.3509	0.9460	1.0460e+00	8.1000e+00
120	IPW0000003	1.1513	5.0513	2.5943	1.1693e+00	8.1000e+00
121	IPW0000004	0.3000	1.2766	0.7883	1.9730e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.1754	2.6486e-01	2.0000e+00
123	IPW0000006	-0.2883	0.6883	0.1707	3.1828e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0194	3.3439e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.9080e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0158	2.7124e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	3.1950e-03	0.0000e+00
128	IHT0000001	-0.2094	0.1813	0.0289	9.0756e-02	4.1000e+00
129	IHT0000002	-0.1247	0.2659	0.1527	1.0507e-01	4.1000e+00
130	IHT0000003	0.0259	0.4166	0.1314	1.1306e-01	4.1000e+00
131	IHT0000004	-0.0400	0.5459	0.1748	9.0412e-02	4.1000e+00
132	IHT0000005	0.0753	0.4659	0.1652	1.0595e-01	4.1000e+00
133	IHT0000006	0.0072	0.3978	0.2103	1.1133e-01	4.1000e+00
134	IHT0000007	0.0400	0.2353	0.1259	9.7935e-02	4.1000e+00
135	IHT0000008	0.0400	0.4306	0.1377	1.0625e-01	4.1000e+00
136	IHT0000009	-0.1200	0.2706	0.0284	9.3043e-02	4.1000e+00
137	IHT0000010	-0.0400	0.3506	0.1006	1.0470e-01	4.1000e+00
138	IHT0000011	-0.1953	0.1953	0.0859	1.0559e-01	4.1000e+00
139	IHT0000012	-0.0375	0.1578	0.0641	9.8569e-02	4.1000e+00
140	IHT0000013	-0.2047	0.3813	0.0492	1.2001e-01	4.1000e+00
141	IHT0000014	-0.0800	0.3106	0.1309	9.5357e-02	4.1000e+00
142	IHT0000015	-0.1600	0.2306	0.0548	7.1136e-02	4.1000e+00
143	IHT0000016	-0.0800	0.3106	0.0020	1.0507e-01	4.1000e+00
144	IHT0000017	0.3647	1.1459	0.6264	1.9575e-01	4.1000e+00
145	IHT0000018	-0.0353	0.1600	0.0272	9.2034e-02	4.1000e+00
146	IHT0000019	-0.3200	0.0706	-0.0817	1.0654e-01	4.1000e+00
147	IHT0000020	-0.0234	0.3672	0.0547	1.0440e-01	4.1000e+00
148	IHT0000021	-1.1934	-0.8028	-1.0255	1.3675e-01	4.1000e+00
149	IHT0000022	-0.1953	0.1953	0.0000	8.8233e-02	4.1000e+00
150	IHT0000023	-0.0353	0.3553	0.0936	1.0885e-01	4.1000e+00
151	IHT0000024	0.7853	1.1759	0.9963	8.6810e-02	4.1000e+00
152	IHT0000025	-0.5553	-0.1647	-0.3639	9.2456e-02	4.1000e+00
153	IHT0000026	-0.1153	0.2753	0.1073	7.9017e-02	4.1000e+00
154	IHT0000027	-0.0353	0.3553	0.1366	9.3710e-02	4.1000e+00
155	IHT0000028	-0.0047	0.3859	0.0500	9.6976e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	0.0000	0.3906	0.1055	1.0595e-01	4.1000e+00
157	IHT0000030	0.0000	0.1953	0.0781	9.6655e-02	4.1000e+00
158	IHT0000031	0.0400	0.4306	0.2197	7.7324e-02	4.1000e+00
159	IHT0000032	-0.0353	0.3553	0.1366	8.4997e-02	4.1000e+00
160	IHT0000033	-2.1706	-1.7800	-1.9480	8.8321e-02	4.1000e+00
161	IHT0000034	0.0000	0.1953	0.1055	9.8332e-02	4.1000e+00
162	IHT0000035	-0.0681	0.3225	0.1194	8.7880e-02	4.1000e+00
163	IHT0000036	-0.1153	0.2753	0.0917	6.1257e-02	4.1000e+00

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Velocity 1 - 10.8515 (ft/sec) (+/- 3.7315 %)
 Velocity 2 - 10.7507 (ft/sec) (+/- 3.5072 %)
 Pressure drop - -0.3195 (psi)
 Tsat in - 268.0858 (deg F) Tsat out - 268.9478 (deg F)
 Phi inner - 0.0001 (kBtu/hr-ft2) (+/- 968.4625 %)
 Phi outer - 0.0001 (kBtu/hr-ft2) (+/- 1014.0577 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.2739	77.9100	77.5708	1.8173e-01	1.9000e+00
1	TRF0000002	76.0201	76.4424	76.2819	1.2480e-01	1.9000e+00
2	TFH0000001	77.6096	78.5586	78.0778	1.7980e-01	1.9000e+00
3	TIN0000001	85.1369	85.6631	85.4693	1.6086e-01	1.9002e+00
4	TRV0000001	81.8868	82.7272	82.2946	1.7959e-01	1.9001e+00
5	TSR0000001	76.9232	77.5562	77.2359	1.6511e-01	1.9000e+00
6	TNO020136	83.0948	84.0433	83.6304	2.3886e-01	1.9001e+00
7	TNO050136	83.2922	83.8174	83.5742	1.3496e-01	1.9001e+00
8	TNO070136	77.5513	78.2936	78.0136	2.0514e-01	1.9000e+00
9	TNO080136	82.2064	82.8373	82.5765	1.6189e-01	1.9001e+00
10	TNO090136	82.9996	83.8404	83.3531	1.8719e-01	1.9001e+00
11	TNO100136	82.9151	83.4418	83.2477	1.4318e-01	1.9001e+00
12	TNO105136	85.3162	86.0526	85.7537	2.1060e-01	1.9002e+00
13	EMPTY	39.8352	40.2940	40.1427	1.1916e-01	1.9011e+00
14	TNO115136	82.4312	83.3821	82.9301	2.0026e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8466	1.0871e-01	1.9000e+00
16	TNO125136	84.6421	85.2718	84.9323	1.6240e-01	1.9002e+00
17	TNO130136	82.6898	83.3187	83.0756	1.6009e-01	1.9001e+00
18	EMPTY	229.3957	246.0376	238.0466	4.6253e+00	1.9378e+00
19	TNO130048	84.3356	84.9660	84.5923	1.3939e-01	1.9001e+00
20	TNO120224	80.4312	81.3805	80.8827	1.8939e-01	1.9001e+00
21	EMPTY	-491.2660	-490.8898	-491.0401	1.8620e-01	2.0560e+00
22	TNO120312	82.8876	83.6247	83.2922	1.4167e-01	1.9001e+00
23	TNO130312	83.3126	84.0487	83.6995	1.9271e-01	1.9001e+00
24	EMPTY	37.0772	37.7675	37.5466	1.9141e-01	1.9009e+00
25	TRT070000	83.1507	83.9953	83.6319	1.5981e-01	1.9001e+00
26	TRT100000	84.0144	84.6452	84.3507	1.6977e-01	1.9001e+00
27	TRT120000	83.4528	83.9794	83.7392	1.5332e-01	1.9001e+00
28	TRT125000	86.1437	86.8759	86.5247	1.8138e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9468	1.1652e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9545	1.9799e-01	1.9011e+00
31	TAF050136	84.3028	85.1401	84.6682	1.6442e-01	1.9001e+00
32	TAF070136	83.3047	84.2473	83.7659	1.9949e-01	1.9001e+00
33	TAF080136	83.0196	83.6481	83.2552	1.4614e-01	1.9001e+00
34	TAF090136	82.8233	83.7699	83.2191	2.5802e-01	1.9001e+00
35	TAF100136	83.2351	83.9723	83.5847	1.8353e-01	1.9001e+00
36	TAF105136	83.8404	84.7822	84.3218	2.5158e-01	1.9001e+00
37	TAF110136	81.8996	82.4261	82.1943	1.6858e-01	1.9001e+00
38	TAF115136	84.8009	85.7454	85.2498	1.9093e-01	1.9002e+00
39	TAF120136	84.3905	85.0207	84.6597	1.3114e-01	1.9001e+00
40	TAF125136	83.2513	83.9859	83.7545	1.5431e-01	1.9001e+00
41	TAF130136	83.2234	83.7501	83.4762	1.4885e-01	1.9001e+00
42	TAF120048	82.8814	83.8337	83.2962	2.1491e-01	1.9001e+00
43	TAF130048	83.6060	84.1323	83.9135	1.3749e-01	1.9001e+00
44	TAF120224	83.3920	84.1287	83.7122	1.7518e-01	1.9001e+00
45	TAF130224	83.1324	83.6608	83.5002	1.2464e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5200	1.9789e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7031	1.0433e-01	1.9010e+00
48	TAL130048	83.3720	84.4252	83.9576	3.2738e-01	1.9001e+00
49	EMPTY	30.5629	31.0376	30.8145	1.6198e-01	1.9006e+00
50	TAL130224	83.1382	84.1939	83.7169	2.7148e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2917	1.7402e-01	1.9010e+00
52	TRR130000	82.9783	84.1322	83.4899	2.0522e-01	1.9001e+00
53	TSI0000001	45.8285	46.6957	46.3268	1.8707e-01	1.9004e+00
54	TSI0000002	61.8732	62.8347	62.3431	2.4905e-01	1.9000e+00
55	TSO0000001	46.2683	47.0300	46.6428	1.8019e-01	1.9004e+00
56	TSO0000002	69.7098	70.7739	70.2971	2.4150e-01	1.9000e+00
57	TAF020136	76.6713	77.4152	77.0282	2.0897e-01	1.9000e+00
58	TAF120312	84.6103	85.6590	85.1098	2.5010e-01	1.9002e+00
59	TAF130312	82.2917	83.0271	82.6662	1.7913e-01	1.9001e+00
60	EMPTY	0.3369	0.3467	0.3412	1.8821e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3561	1.3381e-03	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3702	1.8950e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2923	1.7115e-03	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3127	9.6655e-04	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3288	2.3365e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3472	1.4797e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3618	1.4797e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3810	6.9053e-04	0.0000e+00
70	EMPTY	0.3906	0.4004	0.3958	1.5314e-03	0.0000e+00
71	EMPTY	0.4150	0.4248	0.4200	1.2041e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4347	6.9053e-04	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4545	1.3381e-03	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4733	1.1714e-03	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4896	2.1635e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5046	2.3365e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5268	1.6028e-03	0.0000e+00
78	EMPTY	0.5420	0.5518	0.5472	1.5314e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5715	9.6655e-04	0.0000e+00
80	PANO20136	-1.7887	-0.5680	-1.2882	2.5382e-01	8.7001e-01
81	PANO50136	-3.4597	-2.3916	-3.0416	2.2823e-01	1.6800e+00
82	PANO70136	-0.4902	0.1201	-0.1988	1.4840e-01	8.7000e-01
83	PANO80136	-1.6183	-1.2368	-1.4977	9.3872e-02	8.7001e-01
84	PANO90136	-0.9197	-0.5382	-0.6877	1.0103e-01	8.7000e-01
85	PAN100136	-1.2800	-0.8223	-0.9703	9.3007e-02	8.7000e-01
86	PAN105136	-0.5884	-0.2069	-0.3946	8.4719e-02	8.7000e-01
87	PAN110136	-0.5085	-0.2797	-0.4109	7.2362e-02	8.7000e-01
88	PAN115136	0.7885	1.2462	1.0112	1.0206e-01	8.7000e-01
89	PAN120136	-0.9534	-0.7245	-0.8359	7.5841e-02	8.7000e-01
90	PAN125136	-0.3798	0.0017	-0.1432	7.7453e-02	8.7000e-01
91	PAN130136	-0.7308	-0.5020	-0.5813	6.1578e-02	8.7000e-01
92	PAN120048	-1.1469	-0.6891	-0.8905	1.1613e-01	8.7000e-01
93	PAN130048	-1.0071	-0.5493	-0.8057	1.0196e-01	8.7000e-01
94	PAN120224	0.1079	0.4894	0.3017	8.7479e-02	8.7000e-01
95	PAN130224	-1.0558	-0.5217	-0.8574	1.0679e-01	8.7000e-01
96	PAN120312	-0.5513	-0.1798	-0.3690	8.7519e-02	8.7000e-01
97	PAN130312	-1.2460	-0.7882	-1.0644	9.4879e-02	8.7000e-01
98	PAB000136	40.1790	40.6825	40.4838	1.0809e-01	5.8876e-01
99	PAB100136	40.8253	41.2373	41.0423	9.8227e-02	5.8901e-01
100	PAB125136	40.8799	41.2461	41.0721	1.0173e-01	5.8902e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIW000001	40.1948	40.8051	40.5146	1.3256e-01	7.5681e-01
102	PRV000001	19.6973	19.9414	19.8267	3.8286e-02	7.5164e-01
103	PSR000001	40.3242	40.6905	40.5269	1.1196e-01	7.5681e-01
104	PFH000001	17.9997	18.6406	18.2506	1.3941e-01	5.0208e-01
105	PAN000136	11.8113	-5.8604	-8.8450	1.3021e+00	4.9200e+00
106	PFH000002	17.7484	18.1032	17.9100	9.0637e-02	2.0495e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-5.9033	-3.9160	-5.2572	5.3897e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0037	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1325	8.7880e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.0948	8.1347e-02	8.1000e-01
114	VPW000003	0.0800	0.4706	0.1581	1.1161e-01	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0467	1.1897e-01	8.1000e-01
116	VPW000005	-0.1153	0.2753	0.1230	1.0654e-01	8.1000e-01
117	VPW000006	-0.0400	0.5459	0.1553	1.0440e-01	8.1000e-01
118	IPW000001	0.3998	2.3522	1.3370	9.8529e-01	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.7899	1.1826e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.1903	1.0782e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.3391	2.3839e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.4097	2.6995e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.0633	2.6174e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0206	3.0067e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0134	2.9280e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0173	3.1521e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0132	3.1583e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0211	8.5454e-02	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1409	1.0259e-01	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1041	9.6655e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1553	8.8233e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1456	9.4702e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.1712	9.1354e-02	4.1000e+00
134	IHT000007	-0.1553	0.2353	0.1220	1.0507e-01	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1142	9.5765e-02	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0089	1.0885e-01	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1163	9.6655e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0703	9.4702e-02	4.1000e+00
139	IHT000012	-0.2328	0.1578	0.0680	1.0595e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0336	9.0756e-02	4.1000e+00
141	IHT000014	-0.0800	0.5059	0.1348	9.0412e-02	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0587	7.5283e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	-0.0058	9.5765e-02	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6303	2.4247e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.1131	8.4262e-02	4.1000e+00
146	IHT000019	-0.3200	0.0706	-0.0856	8.8233e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0469	9.4702e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0528	1.5803e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1092	8.6541e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	1.0002	9.0412e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3756	7.7324e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0761	6.2265e-02	4.1000e+00
154	IHT000027	-0.0353	0.1600	0.1366	6.4113e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0383	9.0756e-02	4.1000e+00

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

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4860	77.9100	77.6556	1.5442e-01	1.9000e+00
1	TRF000002	76.0201	76.6535	76.3537	1.3549e-01	1.9000e+00
2	TRF000001	77.7150	78.6640	78.0717	2.1508e-01	1.9000e+00
3	TIN000001	85.1374	85.7679	85.4924	1.5296e-01	1.9002e+00
4	TRV000001	81.6775	82.6231	82.1880	2.1535e-01	1.9001e+00
5	TSR000001	77.0292	77.5572	77.3015	1.3991e-01	1.9000e+00
6	TA0020136	83.2003	84.0427	83.5902	2.5124e-01	1.9001e+00
7	TA0050136	83.1884	83.8186	83.5893	1.2838e-01	1.9001e+00
8	TA0070136	77.7633	78.3990	78.0876	2.0242e-01	1.9000e+00
9	TA0080136	82.2079	82.9423	82.5666	1.6831e-01	1.9001e+00
10	TA0090136	82.8951	83.7360	83.3008	1.9335e-01	1.9001e+00
11	TA0100136	82.9156	83.5468	83.2206	1.4610e-01	1.9001e+00
12	TA0105136	85.3167	86.1573	85.7852	1.9718e-01	1.9002e+00
13	EMPTY	39.8352	40.5234	40.1748	1.4089e-01	1.9011e+00
14	TA0115136	82.3250	83.2761	82.8641	2.1689e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8281	9.9527e-02	1.9008e+00
16	TA0125136	84.6427	85.2723	84.9136	1.1833e-01	1.9001e+00
17	TA0130136	82.6930	83.4237	82.9918	1.5945e-01	1.9001e+00
18	EMPTY	221.8276	235.9722	228.9000	3.3689e+00	1.9350e+00
19	TA0130048	84.2317	84.6523	84.4817	1.2350e-01	1.9001e+00
20	TA0120224	80.5369	81.1693	80.8807	1.4089e-01	1.9001e+00
21	EMPTY	503.3629	503.3631	-503.3631	2.4662e-04	2.0636e+00
22	TA0120312	82.8881	83.5198	83.2522	1.4768e-01	1.9001e+00
23	TA0130312	83.1032	83.9438	83.5927	1.5971e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5696	1.8597e-01	1.9010e+00
25	TRT070000	83.3612	83.8889	83.6632	1.4928e-01	1.9001e+00
26	TRT100000	84.0149	84.7495	84.3153	1.7102e-01	1.9001e+00
27	TRT120000	83.3481	84.0843	83.6994	1.4810e-01	1.9001e+00
28	TRT125000	85.9357	86.7727	86.5232	1.8399e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9330	1.1418e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9728	2.4089e-01	1.9011e+00
31	TAF050136	84.3033	84.9332	84.6789	1.5733e-01	1.9001e+00
32	TAF070136	83.3062	84.1439	83.7226	2.0005e-01	1.9001e+00
33	TAF080136	82.9164	83.5443	83.2204	1.8360e-01	1.9001e+00
34	TAF090136	82.8236	83.8754	83.2129	2.3193e-01	1.9001e+00
35	TAF100136	83.2351	83.9722	83.5952	1.8913e-01	1.9001e+00
36	TAF105136	83.7372	84.6786	84.3287	2.1370e-01	1.9001e+00
37	TAF110136	81.7956	82.5311	82.1717	1.6039e-01	1.9001e+00
38	TAF115136	84.9057	85.6406	85.2689	1.8260e-01	1.9002e+00
39	TAF120136	84.2867	84.9164	84.5828	1.4172e-01	1.9001e+00
40	TAF125136	83.3568	84.0908	83.7028	1.5738e-01	1.9001e+00
41	TAF130136	83.1186	83.6448	83.4279	1.3345e-01	1.9001e+00
42	TAF120048	82.7747	83.7272	83.2553	2.5504e-01	1.9001e+00
43	TAF130048	83.6066	84.2377	83.8651	1.2066e-01	1.9001e+00
44	TAF120224	83.2871	84.0238	83.6765	2.0961e-01	1.9001e+00
45	TAF130224	83.1329	83.7651	83.4044	1.1485e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.6168	2.2311e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6571	1.1609e-01	1.9010e+00
48	TAI130048	83.2675	84.5300	83.9597	3.0141e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8335	1.6618e-01	1.9006e+00
50	TAI130224	83.0332	84.1933	83.6260	3.1604e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2641	1.6328e-01	1.9010e+00
52	TRI130000	82.9776	84.0279	83.4419	2.6417e-01	1.9001e+00
53	TSI000001	45.9368	46.5874	46.3465	1.5529e-01	1.9004e+00
54	TSI0C0002	61.3381	62.6211	61.9435	2.5985e-01	1.9000e+00
55	TSO000001	46.0507	47.0300	46.6882	1.9305e-01	1.9004e+00
56	TSO000002	70.1354	71.0925	70.6862	2.2599e-01	1.9000e+00
57	TAF020136	76.7774	77.3091	77.0810	1.6760e-01	1.9000e+00
58	TAF120312	84.6108	85.5549	85.0870	2.6636e-01	1.9002e+00
59	TAF130312	82.2927	82.9225	82.6519	1.3938e-01	1.9001e+00
60	EMPTY	0.3369	0.3418	0.3384	2.2603e-03	0.0000e+00
61	EMPTY	0.3516	0.3564	0.3538	2.4583e-03	0.0000e+00
62	EMPTY	0.3662	0.3711	0.3667	1.4797e-03	0.0000e+00
63	EMPTY	0.3809	0.3857	0.3849	1.8950e-03	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2889	1.8082e-03	0.0000e+00
65	EMPTY	0.3076	0.3125	0.3111	2.2146e-03	0.0000e+00
66	EMPTY	0.3271	0.3271	0.3271	0.0000e+00	0.0000e+00
67	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
68	EMPTY	0.3564	0.3613	0.3610	1.1714e-03	0.0000e+00
69	EMPTY	0.3760	0.3809	0.3802	1.7115e-03	0.0000e+00
70	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
71	EMPTY	0.4150	0.4199	0.4198	6.9053e-04	0.0000e+00
72	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
73	EMPTY	0.4492	0.4541	0.4540	6.9053e-04	0.0000e+00
74	EMPTY	0.4688	0.4736	0.4690	1.1714e-03	0.0000e+00
75	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5226	6.9053e-04	0.0000e+00
78	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
79	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
80	PAN020136	-6.9767	-5.6034	-6.3755	2.5404e-01	8.7015e-01
81	PAN050136	13.0728	-12.4624	-12.7828	2.0038e-01	1.6803e+00
82	PAN070136	-7.5856	-7.0515	-7.3338	1.2063e-01	8.7019e-01
83	PAN080136	-4.6700	-4.2886	-4.4824	8.4719e-02	8.7007e-01
84	PAN090136	-4.2003	-3.8951	-4.0248	8.0462e-02	8.7006e-01
85	PAN100136	-4.4844	-4.1029	-4.2875	9.3872e-02	8.7007e-01
86	PAN105136	-2.1143	-1.8091	-1.9647	7.7007e-02	8.7001e-01
87	PAN110136	-2.1107	-1.8818	-1.9993	6.2058e-02	8.7001e-01
88	PAN115136	-1.1952	-0.8900	-1.0701	8.5487e-02	8.7000e-01
89	PAN120136	-2.4792	-2.1741	-2.3190	8.0462e-02	8.7002e-01
90	PAN125136	-1.9819	-1.6768	-1.8080	7.3986e-02	8.7001e-01
91	PAN130136	-2.3330	-1.9515	-2.1606	7.8307e-02	8.7002e-01
92	PAN120048	-4.5801	-4.1223	-4.3542	1.0563e-01	8.7007e-01
93	PAN130048	4.2877	-3.9063	-4.0543	7.7698e-02	8.7006e-01
94	PAN120224	-3.4779	-3.1727	-3.3528	8.6865e-02	8.7004e-01
95	PAN130224	-4.3364	-3.9550	-4.1411	8.3234e-02	8.7006e-01
96	PAN120312	-3.9945	-3.6130	-3.7565	9.2019e-02	8.7005e-01
97	PAN130312	-4.4503	-4.1451	-4.3130	8.4424e-02	8.7007e-01
98	PAB000136	40.4078	40.6825	40.5269	5.9935e-02	5.8878e-01
99	PAB100136	42.1528	42.2902	42.2206	3.8400e-02	5.8953e-01
100	PAB125136	42.4821	42.6194	42.5535	4.8197e-02	5.8968e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.1948	40.6830	40.4120	1.1379e-01	7.5677e-01
102	PRV000001	19.8194	19.9414	19.9097	5.4088e-02	7.5165e-01
103	PSR000001	42.1553	42.2774	42.1992	5.9189e-02	7.5738e-01
104	PPH000001	12.0488	12.5065	12.2960	1.1289e-01	5.0094e-01
105	PAM000136	53.4678	-47.9746	-50.6846	1.2437e+00	4.9216e+00
106	PPH000002	12.0212	12.3422	12.1949	7.1273e-02	2.0231e-01
107	EMPTY	0.0049	0.0049	0.0044	1.7784e-03	0.0000e+00
108	EMPTY	6.1963	-4.3945	-5.5827	3.8695e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0025	2.4642e-03	0.0000e+00
110	EMPTY	10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPM000001	-0.0706	0.3200	0.1716	1.0106e-01	8.1000e-01
113	VPM000002	-0.1200	0.2706	0.0870	8.2864e-02	8.1000e-01
114	VPM000003	0.0800	0.8612	0.1777	1.4363e-01	8.1000e-01
115	VPM000004	-0.2306	0.1600	0.0623	1.0625e-01	8.1000e-01
116	VPM000005	0.0800	0.2753	0.1581	9.6655e-02	8.1000e-01
117	VPM000006	-0.0400	0.3506	0.2022	9.3043e-02	8.1000e-01
118	IPM000001	0.3998	2.3522	1.4932	9.7896e-01	8.1000e+00
119	IPM000002	0.3996	2.3509	1.0240	9.1946e-01	8.1000e+00
120	IPM000003	1.1513	5.0513	2.5943	1.4100e+00	8.1000e+00
121	IPM000004	0.3000	1.2766	0.7590	2.4976e-01	2.0000e+00
122	IPM000005	0.0883	0.8882	0.2437	2.8656e-01	2.0000e+00
123	IPM000006	-0.2883	0.6883	0.1609	3.2479e-01	2.0000e+00
124	EMPTY	-0.0244	0.0098	-0.0200	3.5908e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	2.8403e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0162	3.0309e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0141	3.5072e-03	0.0000e+00
128	INT000001	-0.2094	0.1813	0.0094	7.5283e-02	4.1000e+00
129	INT000002	0.0706	0.2659	0.1448	9.5765e-02	4.1000e+00
130	INT000003	0.0259	0.4166	0.1548	1.0145e-01	4.1000e+00
131	INT000004	0.0400	0.5459	0.1905	9.4125e-02	4.1000e+00
132	INT000005	0.0753	0.2706	0.1652	9.8332e-02	4.1000e+00
133	INT000006	0.0072	0.3978	0.2064	8.3612e-02	4.1000e+00
134	INT000007	0.0400	0.2353	0.1337	9.8569e-02	4.1000e+00
135	INT000008	0.0400	0.2353	0.1337	9.8569e-02	4.1000e+00
136	INT000009	-0.1200	0.2706	0.0558	8.1347e-02	4.1000e+00
137	INT000010	-0.0400	0.3506	0.1202	9.4125e-02	4.1000e+00
138	INT000011	0.0000	0.3906	0.0781	1.0440e-01	4.1000e+00
139	INT000012	-0.0375	0.3531	0.0719	1.0559e-01	4.1000e+00
140	INT000013	-0.2047	0.3813	0.0531	1.0763e-01	4.1000e+00
141	INT000014	-0.0800	0.3106	0.1192	8.3612e-02	4.1000e+00
142	INT000015	-0.1600	0.2306	0.0822	9.3043e-02	4.1000e+00
143	INT000016	-0.0800	0.1153	-0.0097	9.4702e-02	4.1000e+00
144	INT000017	0.3647	0.9506	0.6225	1.9902e-01	4.1000e+00
145	INT000018	-0.0353	0.1600	0.0389	9.5765e-02	4.1000e+00
146	INT000019	-0.1247	0.0706	-0.0895	7.5798e-02	4.1000e+00
147	INT000020	-0.2188	0.1719	0.0469	1.0259e-01	4.1000e+00
148	INT000021	-1.1934	-0.6075	-0.9747	1.4573e-01	4.1000e+00
149	INT000022	-0.1953	0.1953	0.0000	6.8345e-02	4.1000e+00
150	INT000023	-0.0353	0.1600	0.1092	8.6541e-02	4.1000e+00
151	INT000024	0.9806	1.1759	1.0158	7.5798e-02	4.1000e+00
152	INT000025	-0.5553	-0.1647	-0.3795	8.1347e-02	4.1000e+00
153	INT000026	-0.1153	0.2753	0.1034	7.5283e-02	4.1000e+00
154	INT000027	-0.0353	0.3553	0.1366	7.5283e-02	4.1000e+00
155	INT000028	-0.2000	0.3859	0.0656	1.0992e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	0.0000	0.1953	0.1133	9.7377e-02	4.1000e+00
157	INT000030	0.0000	0.1953	0.0898	9.8332e-02	4.1000e+00
158	INT000031	0.0400	0.4306	0.2314	1.0052e-01	4.1000e+00
159	INT000032	-0.0353	0.3553	0.1639	7.3716e-02	4.1000e+00
160	INT000033	-2.1706	-1.7800	-1.9597	1.0320e-01	4.1000e+00
161	INT000034	0.0000	0.3906	0.1016	1.0617e-01	4.1000e+00
162	INT000035	-0.0681	0.3225	0.1506	9.3710e-02	4.1000e+00
163	INT000036	-0.1153	0.2753	0.1034	8.4997e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRP000001	77.2739	78.1219	77.7150	1.8590e-01	1.9000e+00
1	TRP000002	76.2313	76.6535	76.3875	1.4024e-01	1.9000e+00
2	TRP000001	77.7156	78.6652	78.2531	2.1553e-01	1.9000e+00
3	TIN000001	85.1368	86.0833	85.6395	1.6353e-01	1.9002e+00
4	TRV000001	81.9924	82.6231	82.3938	1.8459e-01	1.9001e+00
5	TSR000001	77.0287	77.5572	77.3565	1.4501e-01	1.9000e+00
6	TAO020136	83.1998	84.0438	83.6112	2.0673e-01	1.9001e+00
7	TAO050136	83.3989	84.0277	83.7403	1.5117e-01	1.9001e+00
8	TAO070136	77.6573	78.7170	78.1808	1.8706e-01	1.9000e+00
9	TAO080136	82.4170	83.0478	82.7342	1.5070e-01	1.9001e+00
10	TAO090136	83.1056	83.7360	83.4731	1.5633e-01	1.9001e+00
11	TAO100136	83.1256	83.7563	83.4056	1.4356e-01	1.9001e+00
12	TAO105136	85.5263	86.3675	85.9155	2.1883e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1656	1.1503e-01	1.9011e+00
14	TAO115136	82.6423	83.3821	83.0502	1.9086e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8835	1.1643e-01	1.9008e+00
16	TAO125136	84.7470	85.3782	85.0606	1.5947e-01	1.9002e+00
17	TAO130136	82.6930	83.2164	83.0505	1.3732e-01	1.9001e+00
18	EMPTY	221.6377	257.2925	237.5630	8.9013e+00	1.9376e+00
19	TAO130048	84.3360	84.7577	84.5280	1.1579e-01	1.9001e+00
20	TAO120224	80.7477	81.6963	81.0704	2.1961e-01	1.9001e+00
21	EMPTY	-510.2172	-509.8355	-510.0186	1.9261e-01	2.0678e+00
22	TAO120312	83.0987	83.7302	83.4501	1.9677e-01	1.9001e+00
23	TAO130312	83.2082	84.1536	83.6139	1.9228e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5466	1.7977e-01	1.9009e+00
25	TRT070000	83.3612	84.1007	83.8027	1.5634e-01	1.9001e+00
26	TRT100000	84.0144	84.9597	84.5378	1.9494e-01	1.9001e+00
27	TRT120000	83.3481	84.0843	83.8717	1.8091e-01	1.9001e+00
28	TRT125000	86.2490	86.9811	86.6528	1.6889e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9330	1.2327e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9407	1.8665e-01	1.9011e+00
31	TAF050136	84.5131	85.1425	84.8425	1.7739e-01	1.9001e+00
32	TAF070136	83.4097	84.3522	83.9235	2.1182e-01	1.9001e+00
33	TAF080136	83.1246	83.8585	83.4345	1.6886e-01	1.9001e+00
34	TAF090136	82.9288	83.8754	83.3938	2.8022e-01	1.9001e+00
35	TAF100136	83.4452	84.0777	83.7342	1.4861e-01	1.9001e+00
36	TAF105136	83.9458	85.0954	84.5251	2.5417e-01	1.9001e+00
37	TAF110136	82.0047	82.6367	82.3522	1.5357e-01	1.9001e+00
38	TAF115136	85.0106	85.8496	85.4032	1.8826e-01	1.9002e+00
39	TAF120136	84.4970	85.0218	84.7880	1.2255e-01	1.9001e+00
40	TAF125136	83.5653	84.1962	83.8871	1.6208e-01	1.9001e+00
41	TAF130136	83.1180	83.9605	83.6298	1.8038e-01	1.9001e+00
42	TAF120048	82.9869	83.8337	83.4289	1.9787e-01	1.9001e+00
43	TAF130048	83.7115	84.3432	84.0545	1.4850e-01	1.9001e+00
44	TAF120224	83.4970	84.1293	83.8196	1.8827e-01	1.9001e+00
45	TAF130224	83.3434	83.8712	83.6329	1.2919e-01	1.9001e+00

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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.5610	40.4486	8.4860e-02	7.5679e-01
102	PRV000001	19.8194	19.9414	19.8413	4.7374e-02	7.5164e-01
103	PSR000001	43.4981	43.6201	43.6152	2.4164e-02	7.5788e-01
104	PFM000001	7.2880	7.6542	7.4840	8.2739e-02	5.0035e-01
105	PAN000136	88.2578	84.1379	-86.2070	9.7979e-01	4.9247e+00
106	PFM000002	7.3752	7.5610	7.4536	4.4209e-02	2.0087e-01
107	EMPTY	-0.0049	0.0049	0.0034	3.0003e-03	0.0000e+00
108	EMPTY	-6.9922	-5.1660	-5.8932	2.9460e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0007	2.4184e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1598	8.5454e-02	8.1000e-01
113	VPW000002	-0.1200	0.4659	0.1066	9.1354e-02	8.1000e-01
114	VPW000003	-0.1153	0.4706	0.1659	1.1942e-01	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0741	1.1272e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1659	9.7935e-02	8.1000e-01
117	VPW000006	0.1553	0.3506	0.2139	9.0412e-02	8.1000e-01
118	IPW000001	0.3998	6.2569	2.8207	1.1540e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.7899	1.1150e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.0343	1.0724e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.4562	2.5034e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.9175	2.8605e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.1512	3.4527e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0188	3.1211e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.6908e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0155	2.7356e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0138	3.2253e-03	0.0000e+00
128	IHT000001	-0.4047	0.1813	0.0289	1.0654e-01	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1487	1.0440e-01	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1080	9.7377e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1553	9.6655e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1456	1.0259e-01	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2220	9.0412e-02	4.1000e+00
134	IHT000007	0.0400	0.4306	0.1337	1.1327e-01	4.1000e+00
135	IHT000008	-0.1553	0.2353	0.1337	1.0617e-01	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0362	9.6655e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1084	1.0849e-01	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0820	9.7377e-02	4.1000e+00
139	IHT000012	-0.2328	0.1578	0.0680	1.0595e-01	4.1000e+00
140	IHT000013	-0.0094	0.1859	0.0453	8.8585e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1270	7.2866e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0744	7.8918e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0138	9.8569e-02	4.1000e+00
144	IHT000017	0.3647	1.1459	0.6850	1.0825e-01	4.1000e+00
145	IHT000018	-0.0353	0.5506	0.1287	1.1409e-01	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.1052	5.9189e-02	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0469	9.4702e-02	4.1000e+00
148	IHT000021	-1.1934	-0.6075	-0.8927	1.1306e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	-0.0039	6.2265e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1209	7.8918e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0119	7.2330e-02	4.1000e+00
152	IHT000025	-0.5553	-0.3600	-0.3795	5.9189e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.1034	6.4113e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
155	IHT000028	-0.2000	0.3859	0.0617	1.0885e-01	4.1000e+00

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

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.4860	78.1219	77.8082	1.7258e-01	1.9000e+00
1	TRF000002	76.2313	76.6535	76.4804	1.3277e-01	1.9000e+00
2	TFM000001	78.1366	78.9811	78.5400	1.9955e-01	1.9000e+00
3	TIN000001	85.6626	86.2929	85.9337	1.6180e-01	1.9002e+00
4	TRV000001	82.3078	82.9383	82.6668	1.6979e-01	1.9001e+00
5	TSR000001	77.0292	77.7676	77.4538	1.6016e-01	1.9000e+00
6	TAO020136	83.5162	84.2542	83.8556	1.9657e-01	1.9001e+00
7	TAO050136	83.7119	84.4472	84.0169	1.5619e-01	1.9001e+00
8	TAO070136	77.7628	78.5049	78.2483	1.9158e-01	1.9000e+00
9	TAO080136	82.5226	83.1528	82.9774	1.3670e-01	1.9001e+00
10	TAO090136	83.3151	84.2606	83.7924	2.2581e-01	1.9001e+00
11	TAO100136	83.4409	83.9672	83.6999	1.3309e-01	1.9001e+00
12	TAO105136	85.6318	86.5774	86.1340	1.9829e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1702	1.1550e-01	1.9011e+00
14	TAO115136	82.8534	83.8040	83.3585	2.3111e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9066	1.1502e-01	1.9008e+00
16	TAO125136	84.9573	85.5878	85.3334	1.5014e-01	1.9002e+00
17	TAO130136	82.6930	83.4269	83.0022	1.4431e-01	1.9001e+00
18	EMPTY	389.0112	419.8564	415.3317	8.9866e+00	2.0129e+00
19	TAO130048	84.0232	85.1762	84.6917	3.1448e-01	1.9001e+00
20	TAO120224	80.8534	81.6964	81.3317	2.0112e-01	1.9001e+00
21	EMPTY	-534.8831	-534.4941	-534.6030	1.7640e-01	2.0837e+00
22	TAO120312	83.3092	83.9407	83.6648	1.6317e-01	1.9001e+00
23	TAO130312	83.4181	84.0487	83.6771	1.4892e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5236	1.7643e-01	1.9009e+00
25	TRT070000	83.7835	84.5237	84.0732	1.6634e-01	1.9001e+00
26	TRT100000	84.4344	85.2741	84.8399	2.1201e-01	1.9001e+00
27	TRT20000	83.7685	84.3998	84.1366	1.6214e-01	1.9001e+00
28	TRT125000	86.5622	87.2941	86.8911	1.7926e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9330	1.3173e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9316	1.9718e-01	1.9011e+00
31	TAF050136	84.7224	85.4571	85.1317	1.9442e-01	1.9002e+00
32	TAF070136	83.7247	84.7718	84.2500	1.9200e-01	1.9001e+00
33	TAF080136	83.3339	83.9634	83.6598	1.4720e-01	1.9001e+00
34	TAF090136	83.1394	84.2958	83.6671	2.5868e-01	1.9001e+00
35	TAF100136	83.7613	84.3930	84.0415	1.6417e-01	1.9001e+00
36	TAF105136	84.1544	85.3056	84.7677	2.6694e-01	1.9001e+00
37	TAF110136	82.3200	83.0552	82.5958	1.6010e-01	1.9001e+00
38	TAF115136	85.3251	86.0602	85.6675	1.9284e-01	1.9002e+00
39	TAF120136	84.7062	85.3357	85.0729	1.3789e-01	1.9002e+00
40	TAF125136	83.7750	84.5101	84.1636	1.6451e-01	1.9001e+00
41	TAF130136	83.5391	84.1707	83.8989	1.4430e-01	1.9001e+00
42	TAF120048	83.1991	84.1496	83.6954	2.3052e-01	1.9001e+00
43	TAF130048	84.0274	84.6583	84.3784	1.4035e-01	1.9001e+00
44	TAF120224	83.7080	84.5499	84.1057	1.9857e-01	1.9001e+00
45	TAF130224	83.6616	84.1878	83.9373	1.1825e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5937	2.3835e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6708	1.1468e-01	1.9010e+00
48	TAI130048	83.8989	85.0555	84.3679	2.6474e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8810	2.1768e-01	1.9006e+00
50	TAI130224	83.5604	84.6145	84.0687	3.0097e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2641	1.6328e-01	1.9010e+00
52	TTR130000	83.3980	84.3425	83.8703	2.2461e-01	1.9001e+00
53	TS1000001	45.6119	46.4797	46.0826	1.9048e-01	1.9004e+00
54	TS1000002	60.6967	61.7666	61.2639	2.5226e-01	1.9001e+00
55	TSO000001	45.7226	46.9197	46.3735	2.0454e-01	1.9004e+00
56	TSO000002	69.9227	70.6674	70.2653	1.9138e-01	1.9000e+00
57	TAF020136	76.8829	77.6266	77.2632	1.6904e-01	1.9000e+00
58	TAF120312	85.0299	86.0790	85.5148	2.5829e-01	1.9002e+00
59	TAF130312	82.7120	83.5526	83.1136	1.7714e-01	1.9001e+00
60	EMPTY	0.3418	0.3467	0.3465	9.6655e-04	0.0000e+00
61	EMPTY	0.3613	0.3613	0.3613	0.0000e+00	0.0000e+00
62	EMPTY	0.3711	0.3760	0.3757	1.1714e-03	0.0000e+00
63	EMPTY	0.3857	0.3906	0.3905	6.9053e-04	0.0000e+00
64	EMPTY	0.2881	0.2930	0.2929	6.9053e-04	0.0000e+00
65	EMPTY	0.3076	0.3174	0.3126	1.2041e-03	0.0000e+00
66	EMPTY	0.3271	0.3320	0.3292	2.4344e-03	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3475	1.8082e-03	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3629	2.3008e-03	0.0000e+00
69	EMPTY	0.3809	0.3857	0.3811	9.6655e-04	0.0000e+00
70	EMPTY	0.3955	0.4004	0.3974	2.3941e-03	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4214	2.2603e-03	0.0000e+00
72	EMPTY	0.4346	0.4395	0.4351	1.4797e-03	0.0000e+00
73	EMPTY	0.4541	0.4590	0.4559	2.3675e-03	0.0000e+00
74	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
75	EMPTY	0.4883	0.4932	0.4927	1.4797e-03	0.0000e+00
76	EMPTY	0.5029	0.5078	0.5067	2.0432e-03	0.0000e+00
77	EMPTY	0.5225	0.5273	0.5271	1.1714e-03	0.0000e+00
78	EMPTY	0.5469	0.5518	0.5494	2.4642e-03	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5724	2.0432e-03	0.0000e+00
80	PAN020136	-14.3772	-13.7668	-14.1529	1.2466e-01	8.7072e-01
81	PAN050136	-27.5686	-26.9583	-27.3153	1.4979e-01	1.6814e+00
82	PAN070136	-17.9615	-17.5801	-17.7632	9.3758e-02	8.7113e-01
83	PAN080136	-9.3240	-9.0188	-9.1165	8.0151e-02	8.7030e-01
84	PAN090136	-9.0831	-8.7780	-8.9427	6.6046e-02	8.7029e-01
85	PAN100136	-9.2146	-8.9094	-9.0941	6.1828e-02	8.7030e-01
86	PAN105136	-4.4794	-4.2505	-4.3893	5.7031e-02	8.7007e-01
87	PAN110136	-4.7047	-4.3995	-4.5384	7.5022e-02	8.7007e-01
88	PAN115136	-4.2469	-4.0181	-4.0791	5.7673e-02	8.7006e-01
89	PAN120136	-4.6918	-4.3866	-4.5224	6.5919e-02	8.7007e-01
90	PAN125136	-4.4996	-4.2708	-4.3821	6.9293e-02	8.7007e-01
91	PAN130136	-4.6981	-4.3929	-4.5455	7.2297e-02	8.7007e-01
92	PAN120048	-9.6155	-9.3866	-9.4781	6.1655e-02	8.7032e-01
93	PAN130048	-8.8654	-8.5602	-8.7662	5.8185e-02	8.7028e-01
94	PAN120224	-8.8185	-8.6659	-8.7239	5.0089e-02	8.7027e-01
95	PAN130224	-9.1429	-8.8378	-9.0132	7.1054e-02	8.7029e-01
96	PAN120312	-8.9536	-8.6484	-8.7873	9.0784e-02	8.7028e-01
97	PAN130312	-9.1805	-8.8754	-9.0539	7.3292e-02	8.7029e-01
98	PAB000136	40.5452	40.7741	40.6743	5.2062e-02	5.8885e-01
99	PAB100136	44.0297	44.1670	44.0791	3.7952e-02	5.9038e-01
100	PAB125136	44.8167	44.9540	44.8991	4.4353e-02	5.9076e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.6830	40.5951	6.5436e-02	7.5684e-01
102	PRV000001	19.8194	19.9414	19.8218	1.7263e-02	7.5164e-01
103	PSR000001	44.8409	44.9629	44.8457	2.4164e-02	7.5833e-01
104	PFH000001	3.9006	4.2668	4.0782	7.9362e-02	5.0010e-01
105	PAN000136	114.8081	111.1460	-113.1968	7.5835e-01	4.9281e+00
106	PFH000002	3.9963	4.1146	4.0531	3.3050e-02	2.0026e-01
107	EMPTY	-0.0049	0.0049	0.0009	3.9075e-03	0.0000e+00
108	EMPTY	-6.3672	-4.5703	-5.8096	2.3508e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1364	8.2864e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1027	7.9017e-02	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1503	9.4702e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0819	1.0440e-01	8.1000e-01
116	VPW000005	0.0800	0.4706	0.1737	1.1327e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1631	9.6332e-02	8.1000e-01
118	IPW000001	0.3998	4.3045	2.4693	1.1439e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.5557	1.2366e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	1.1513	8.8092e-01	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.4758	2.5648e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.6929	2.6097e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	-0.0246	2.8266e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0178	3.7899e-03	0.0000e+00
125	EMPTY	-0.0146	0.0000	-0.0125	2.9856e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0147	3.0389e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0049	-0.0138	3.6500e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0172	1.0705e-01	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1409	1.0259e-01	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1080	1.0507e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1788	7.5283e-02	4.1000e+00
132	IHT000005	0.0753	0.4659	0.1613	1.0559e-01	4.1000e+00
133	IHT000006	0.0072	0.5931	0.1986	1.0799e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1377	9.8648e-02	4.1000e+00
135	IHT000008	0.0400	0.4306	0.1220	1.0507e-01	4.1000e+00
136	IHT000009	-0.1200	0.3306	0.0245	9.5112e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1163	9.6655e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0859	9.7935e-02	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0953	9.2034e-02	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0453	9.6976e-02	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1427	8.8321e-02	4.1000e+00
142	IHT000015	-0.1600	0.4259	0.0744	9.6655e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0059	9.7935e-02	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6459	2.2027e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0858	9.5765e-02	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.0856	7.8918e-02	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0313	9.6976e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0919	1.6852e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0000	3.9459e-02	4.1000e+00
150	IHT000023	-0.0353	0.1600	0.1092	8.6541e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0236	8.1729e-02	4.1000e+00
152	IHT000025	-0.5553	-0.3600	-0.3991	7.8918e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0917	7.2866e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1209	8.8233e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0734	1.0440e-01	4.1000e+00

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

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

I	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.4860	78.1219	77.8888	1.9270e-01	1.9000e+00
1	TRF0000002	76.4424	76.8646	76.6113	1.2062e-01	1.9000e+00
2	TFM0000001	78.5587	79.4023	78.9362	2.1190e-01	1.9001e+00
3	TIN0000001	85.8727	86.7128	86.2908	1.8441e-01	1.9002e+00
4	TRV0000001	82.5175	83.3579	82.9397	2.2393e-01	1.9001e+00
5	TSR0000001	77.0303	77.8741	77.5174	1.8577e-01	1.9000e+00
6	TAO020136	83.6211	84.5697	84.0956	2.4761e-01	1.9001e+00
7	TAO050136	84.0272	84.6563	84.3479	1.4608e-01	1.9001e+00
8	TAO070136	77.8688	79.1397	78.5108	2.6163e-01	1.9000e+00
9	TAO080136	83.0452	83.6757	83.3292	1.5181e-01	1.9001e+00
10	TAO090136	83.6305	84.3660	84.1031	1.6324e-01	1.9001e+00
11	TAO100136	83.6508	84.5971	84.0234	1.5644e-01	1.9001e+00
12	TAO105136	86.0515	86.7876	86.5079	1.9295e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.1748	1.2471e-01	1.9011e+00
14	TAO115136	83.1706	84.1209	83.6710	1.8334e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9389	1.0463e-01	1.9008e+00
16	TAO125136	85.3766	85.9022	85.6606	1.6051e-01	1.9002e+00
17	TAO130136	82.9030	83.4264	83.1157	1.3647e-01	1.9001e+00
18	EMPTY	419.8564	419.8564	419.8562	1.8496e-04	2.0153e+00
19	TAO130048	84.6517	85.2810	84.9516	1.6006e-01	1.9002e+00
20	TAO120224	81.2745	82.0124	81.6855	1.9658e-01	1.9001e+00
21	EMPTY	-556.4529	-556.0577	-556.0739	7.8243e-02	2.0980e+00
22	TAO120312	83.7297	84.3615	84.0562	1.7945e-01	1.9001e+00
23	TAO130312	83.5237	84.1542	83.8494	1.6348e-01	1.9001e+00
24	EMPTY	37.3074	37.7675	37.5420	1.6426e-01	1.9009e+00
25	TRT070000	84.2065	84.7345	84.4324	1.5524e-01	1.9001e+00
26	TRT100000	84.7495	85.4836	85.1462	1.9467e-01	1.9002e+00
27	TRT120000	84.1884	84.7147	84.4896	1.3936e-01	1.9001e+00
28	TRT125000	86.6674	87.7122	87.2751	1.9663e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9146	1.2079e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9270	1.9670e-01	1.9011e+00
31	TAF050136	85.0366	85.8758	85.4753	1.6778e-01	1.9002e+00
32	TAF070136	84.0379	84.8766	84.5973	2.0137e-01	1.9001e+00
33	TAF080136	83.7525	84.2774	84.0153	1.4867e-01	1.9001e+00
34	TAF090136	83.4551	84.4009	83.9907	2.6292e-01	1.9001e+00
35	TAF100136	84.0767	84.7084	84.3655	1.5881e-01	1.9001e+00
36	TAF105136	84.6786	85.5115	85.1312	2.0089e-01	1.9002e+00
37	TAF110136	82.6346	83.2657	82.9482	1.7443e-01	1.9001e+00
38	TAF115136	85.5347	86.4786	86.0198	2.2011e-01	1.9002e+00
39	TAF120136	85.1255	85.6495	85.4037	1.2493e-01	1.9002e+00
40	TAF125136	83.9854	84.8238	84.4985	1.6851e-01	1.9001e+00
41	TAF130136	83.9592	84.6952	84.2142	1.7657e-01	1.9001e+00
42	TAF120048	83.6211	84.5735	84.0974	2.2551e-01	1.9001e+00
43	TAF130048	84.3421	84.9734	84.7233	1.2738e-01	1.9001e+00
44	TAF120224	84.1282	84.9698	84.4800	1.9540e-01	1.9001e+00
45	TAF130224	83.8720	84.3996	84.2499	1.2964e-01	1.9001e+00

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I	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.6122	2.0005e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.7169	9.6255e-02	1.9010e+00
48	TAI130048	84.1088	85.4759	84.7464	3.0741e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.8952	1.6610e-01	1.9006e+00
50	TAI130224	83.7714	85.0362	84.4101	3.3362e-01	1.9001e+00
51	EMPTY	37.7675	38.6870	38.2503	1.9840e-01	1.9010e+00
52	TRR130000	83.7127	84.6575	84.3026	2.4166e-01	1.9001e+00
53	TSI0000001	45.9372	46.5879	46.2517	1.7962e-01	1.9004e+00
54	TSI0000002	61.0176	62.0878	61.4437	2.3420e-01	1.9000e+00
55	TSO0000001	46.1573	46.8110	46.5168	1.8297e-01	1.9004e+00
56	TSO0000002	70.1348	71.3051	70.5970	2.4743e-01	1.9000e+00
57	TAP020136	76.9890	77.6274	77.3646	1.6086e-01	1.9000e+00
58	TAP120312	85.3449	86.3930	85.8920	2.8108e-01	1.9002e+00
59	TAP130312	83.1321	83.6576	83.4283	1.5110e-01	1.9001e+00
60	EMPTY	0.3467	0.3516	0.3511	1.4797e-03	0.0000e+00
61	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
62	EMPTY	0.3760	0.3857	0.3805	1.6624e-03	0.0000e+00
63	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2935	1.4797e-03	0.0000e+00
65	EMPTY	0.3125	0.3174	0.3159	2.2603e-03	0.0000e+00
66	EMPTY	0.3271	0.3369	0.3320	9.8648e-04	0.0000e+00
67	EMPTY	0.3467	0.3516	0.3515	6.9053e-04	0.0000e+00
68	EMPTY	0.3613	0.3662	0.3660	9.6655e-04	0.0000e+00
69	EMPTY	0.3809	0.3906	0.3854	1.5314e-03	0.0000e+00
70	EMPTY	0.3955	0.4004	0.4003	6.9053e-04	0.0000e+00
71	EMPTY	0.4199	0.4248	0.4246	9.6655e-04	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4396	6.9053e-04	0.0000e+00
73	EMPTY	0.4590	0.4590	0.4590	0.0000e+00	0.0000e+00
74	EMPTY	0.4736	0.4785	0.4737	6.9053e-04	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5080	9.6655e-04	0.0000e+00
77	EMPTY	0.5273	0.5273	0.5273	0.0000e+00	0.0000e+00
78	EMPTY	0.5469	0.5566	0.5518	9.8648e-04	0.0000e+00
79	EMPTY	0.5713	0.5762	0.5760	9.6655e-04	0.0000e+00
80	PAN020136	-15.9794	-15.5216	-15.7444	1.1204e-01	8.7089e-01
81	PAN050136	-30.6204	-30.1626	-30.3121	1.2518e-01	1.6817e+00
82	PAN070136	-20.0978	-19.7163	-19.9254	9.4779e-02	8.7142e-01
83	PAN080136	-10.3158	-10.0106	-10.1571	7.3664e-02	8.7037e-01
84	PAN090136	-10.2275	-9.9987	-10.0963	7.2362e-02	8.7037e-01
85	PAN100136	-10.2064	-9.9775	-10.1286	5.6613e-02	8.7037e-01
86	PAN105136	-5.0134	-4.7083	-4.8929	7.2444e-02	8.7009e-01
87	PAN110136	-5.1625	-4.9336	-5.0496	6.7610e-02	8.7009e-01
88	PAN115136	-4.8573	-4.5521	-4.7123	6.4018e-02	8.7008e-01
89	PAN120136	-5.2258	-4.9207	-5.0748	6.6279e-02	8.7009e-01
90	PAN125136	-5.1100	-4.7285	-4.8918	8.9890e-02	8.7009e-01
91	PAN130136	-5.2322	-4.9270	-5.0552	6.6189e-02	8.7009e-01
92	PAN120048	-10.7599	-10.3784	-10.6012	7.0365e-02	8.7040e-01
93	PAN130048	-10.0098	-9.7809	-9.8557	5.8673e-02	8.7035e-01
94	PAN130224	-9.9629	-9.7340	-9.8439	7.7315e-02	8.7035e-01
95	PAN130224	-10.1348	-9.9059	-10.0249	4.6650e-02	8.7036e-01
96	PAN120312	-10.0217	-9.7166	-9.8646	7.2967e-02	8.7035e-01
97	PAN130312	-10.1724	-9.9435	-10.0472	5.5060e-02	8.7036e-01
98	PAB000136	40.4078	40.5452	40.4838	4.3975e-02	5.8876e-01
99	PAB100136	44.1670	44.3501	44.2640	3.7725e-02	5.9046e-01
100	PAB125136	45.0913	45.2286	45.1582	4.3585e-02	5.9089e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.3168	40.5610	40.4486	7.3325e-02	7.5679e-01
102	PRV000001	19.6973	19.8194	19.8169	1.7263e-02	7.5163e-01
103	PSR000001	45.0850	45.3291	45.2119	3.4527e-02	7.5847e-01
104	PPH000001	2.3442	2.5273	2.4669	6.3024e-02	5.0004e-01
105	PAN000136	-128.5410	124.8789	-126.5909	7.2118e-01	4.9302e+00
106	PPH000002	2.3744	2.4927	2.4356	2.5517e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0009	3.5141e-03	0.0000e+00
108	EMPTY	-6.5625	-4.7266	-5.8354	3.6162e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1520	9.6735e-02	8.1000e-01
113	VPW000002	0.0753	0.2706	0.1261	8.6541e-02	8.1000e-01
114	VPW000003	0.0800	0.4706	0.1816	1.0617e-01	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0897	9.4702e-02	8.1000e-01
116	VPW000005	-0.1153	0.4706	0.1737	1.2627e-01	8.1000e-01
117	VPW000006	-0.0400	0.5459	0.1748	9.8648e-02	8.1000e-01
118	IPW000001	0.3998	6.2569	2.3522	1.2473e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	1.0240	1.0753e+00	8.1000e+00
120	IPW000003	-0.7987	3.1013	0.9953	9.5205e-01	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.2805	2.7832e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.7613	3.0894e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.1414	3.2178e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0188	3.3249e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.6174e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	2.6762e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0137	3.6911e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0484	1.0014e-01	4.1000e+00
129	IHT000002	-0.1247	0.2659	0.1370	1.0145e-01	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1275	9.8569e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1514	6.2265e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1495	9.5765e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.1830	9.0412e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1025	9.2034e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1298	9.8332e-02	4.1000e+00
136	IHT000009	-0.1200	0.0753	0.0206	8.8585e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1202	9.4125e-02	4.1000e+00
138	IHT000011	0.0000	0.1953	0.0820	9.7377e-02	4.1000e+00
139	IHT000012	-0.2328	0.1578	0.0875	1.0259e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0453	1.0470e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1192	7.3716e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0744	7.8918e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0098	9.8332e-02	4.1000e+00
144	IHT000017	0.1694	0.9506	0.6069	1.6057e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.1092	9.5112e-02	4.1000e+00
146	IHT000019	-0.3200	0.2659	-0.0739	1.0297e-01	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0586	1.1897e-01	4.1000e+00
148	IHT000021	-1.1934	-0.8028	-1.0137	1.1732e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0039	8.3612e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1209	9.6655e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0236	8.1729e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3756	8.6810e-02	4.1000e+00
153	IHT000026	-0.1153	0.2753	0.0956	6.6498e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1561	6.2265e-02	4.1000e+00
155	IHT000028	-0.0047	0.1906	0.0773	9.7377e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	0.0000	0.1953	0.0820	9.7377e-02	4.1000e+00
157	IHT000030	0.0000	0.1953	0.0859	9.7935e-02	4.1000e+00
158	IHT000031	0.0400	0.4306	0.2119	1.0168e-01	4.1000e+00
159	IHT000032	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
160	IHT000033	-2.1706	-1.7800	-1.9558	7.1136e-02	4.1000e+00
161	IHT000034	0.0000	0.1953	0.1367	9.0412e-02	4.1000e+00
162	IHT000035	-9.0681	0.3225	0.3272	8.8233e-02	4.1000e+00
163	IHT000036	0.0800	0.2753	0.1230	8.1729e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.6980	78.3338	77.9608	1.6891e-01	1.9000e+00
1	TRF0000002	76.4424	76.8646	76.6746	1.2970e-01	1.9000e+00
2	TRF0000001	76.6646	79.5076	79.1302	1.8449e-01	1.9001e+00
3	TIN0000001	86.0829	86.8182	86.5218	1.6531e-01	1.9002e+00
4	TRV0000001	82.6231	83.5665	83.1287	2.0845e-01	1.9001e+00
5	TSR0000001	77.3463	77.8741	77.6061	1.4796e-01	1.9000e+00
6	TAO020136	83.6217	84.5697	84.2093	2.2431e-01	1.9001e+00
7	TAO050136	84.2363	84.9701	84.5950	1.7859e-01	1.9001e+00
8	TAO070136	77.9747	78.9277	78.5106	2.1978e-01	1.9000e+00
9	TAO080136	83.0457	83.8845	83.4927	1.4643e-01	1.9001e+00
10	TAO090136	83.8404	84.6812	84.3089	2.3062e-01	1.9001e+00
11	TAO100136	83.8614	84.4926	84.2420	1.5590e-01	1.9001e+00
12	TAO105136	86.3675	87.1021	86.8020	1.7107e-01	1.9002e+00
13	EMPTY	40.0646	40.2940	40.1702	1.1550e-01	1.9011e+00
14	TAO115136	83.1706	84.2264	83.8863	2.6328e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.8558	1.1186e-01	1.9008e+00
16	TAO125136	85.4825	86.2165	85.8578	1.3918e-01	1.9002e+00
17	TAO130136	82.6962	83.3251	83.0670	1.6385e-01	1.9001e+00
18	EMPTY	397.7216	419.8564	419.0795	3.5812e+00	2.0148e+00
19	TAO130048	84.1300	85.0718	84.7719	1.9965e-01	1.9001e+00
20	TAO120224	81.5902	82.2219	81.8919	1.7670e-01	1.9001e+00
21	EMPTY	-566.7715	-566.3732	-566.3810	5.6330e-02	2.1050e+00
22	TAO120312	83.7302	84.6767	84.2666	1.6901e-01	1.9001e+00
23	TAO130312	83.3143	84.0499	83.6775	1.5916e-01	1.9001e+00
24	EMPTY	37.0772	37.9974	37.5742	2.0450e-01	1.9010e+00
25	TRT070000	84.3119	84.9461	84.6183	1.4962e-01	1.9001e+00
26	TRT100000	85.0639	85.6943	85.3434	1.5072e-01	1.9002e+00
27	TRT120000	84.3990	85.0295	84.6913	1.2428e-01	1.9001e+00
28	TRT125000	86.9805	87.8159	87.4715	2.0590e-01	1.9002e+00
29	EMPTY	37.7675	37.9974	37.9514	9.2922e-02	1.9010e+00
30	EMPTY	39.6057	40.5234	39.9637	2.3254e-01	1.9011e+00
31	TAF050136	85.2464	86.0855	85.6889	2.0122e-01	1.9002e+00
32	TAF070136	84.2473	85.0853	84.7231	1.7202e-01	1.9001e+00
33	TAF080136	83.8579	84.4860	84.2119	1.4022e-01	1.9001e+00
34	TAF090136	83.4551	84.7157	84.1631	2.6666e-01	1.9001e+00
35	TAF100136	84.0772	85.0241	84.5885	2.0270e-01	1.9001e+00
36	TAF105136	84.8870	85.8269	85.3401	2.2172e-01	1.9002e+00
37	TAF110136	82.7407	83.4751	83.1329	1.4673e-01	1.9001e+00
38	TAF115136	85.8496	86.5839	86.2337	2.1032e-01	1.9002e+00
39	TAF120136	85.3341	85.8590	85.6131	1.4767e-01	1.9002e+00
40	TAF125136	84.2998	85.0327	84.6661	1.6301e-01	1.9001e+00
41	TAF130136	84.1696	84.6957	84.4244	1.3941e-01	1.9001e+00
42	TAF120048	83.6217	84.7848	84.2749	2.4069e-01	1.9001e+00
43	TAF130048	84.5529	85.1836	84.9083	1.5878e-01	1.9001e+00
44	TAF120224	84.1287	84.9698	84.6692	1.6862e-01	1.9001e+00
45	TAF130224	84.0838	84.7161	84.4696	1.5163e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5477	1.8755e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6111	1.0839e-01	1.9010e+00
48	TAI130048	84.1093	85.6865	84.8851	3.1916e-01	1.9001e+00
49	EMPTY	30.5629	31.2749	30.9427	1.7940e-01	1.9006e+00
50	TAI130224	83.9818	85.1410	84.6714	2.6953e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2871	1.5270e-01	1.9010e+00
52	TRR130000	84.0274	84.9720	84.5167	2.2289e-01	1.9001e+00
53	TSI0000001	46.0456	46.6961	46.3861	1.5640e-01	1.9004e+00
54	TSI0000002	61.3390	62.4088	61.7945	2.5176e-01	1.9000e+00
55	TSO0000001	46.2666	47.0284	46.6996	2.0337e-01	1.9004e+00
56	TSO0000002	70.1354	71.0926	70.6352	2.0066e-01	1.9000e+00
57	TAP020136	76.9890	77.8375	77.4025	1.9097e-01	1.9000e+00
58	TAF120312	85.5544	86.4977	86.0806	2.5690e-01	1.9002e+00
59	TAF130312	83.3416	83.9724	83.6842	1.5557e-01	1.9001e+00
60	EMPTY	0.3516	0.3564	0.3551	2.2146e-03	0.0000e+00
61	EMPTY	0.3662	0.3711	0.3698	2.1635e-03	0.0000e+00
62	EMPTY	0.3809	0.3857	0.3828	2.4164e-03	0.0000e+00
63	EMPTY	0.3955	0.4004	0.4000	1.3381e-03	0.0000e+00
64	EMPTY	0.2930	0.2979	0.2973	1.6028e-03	0.0000e+00
65	EMPTY	0.3174	0.3174	0.3174	0.0000e+00	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3344	2.4642e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3523	1.8082e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3663	6.9053e-04	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3859	9.6655e-04	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4018	2.2146e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4250	9.6655e-04	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4396	6.9053e-04	0.0000e+00
73	EMPTY	0.4590	0.4639	0.4604	2.2146e-03	0.0000e+00
74	EMPTY	0.4736	0.4834	0.4784	1.2041e-03	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4952	2.4344e-03	0.0000e+00
76	EMPTY	0.5078	0.5127	0.5113	2.2146e-03	0.0000e+00
77	EMPTY	0.5273	0.5322	0.5320	9.6655e-04	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5521	1.1714e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5767	1.4797e-03	0.0000e+00
80	PAN020136	-17.3527	-16.9712	-17.1726	9.4716e-02	8.7106e-01
81	PAN050136	-33.0618	-32.7566	-32.9153	9.7290e-02	1.6820e+00
82	PAN070136	-22.0051	-21.7000	-21.8022	7.8003e-02	8.7171e-01
83	PAN080136	-11.0787	-10.8499	-10.9475	7.0702e-02	8.7043e-01
84	PAN090136	-11.1431	-10.8379	-10.9325	7.3211e-02	8.7043e-01
85	PAN100136	-11.1219	-10.8168	-10.9663	6.7116e-02	8.7043e-01
86	PAN105136	-5.3949	-5.1660	-5.2667	5.2134e-02	8.7010e-01
87	PAN110136	-5.5439	-5.3914	-5.4890	5.3484e-02	8.7011e-01
88	PAN115136	-5.3914	-5.0862	-5.2037	7.7392e-02	8.7010e-01
89	PAN120136	-5.6073	-5.3021	-5.4883	6.5685e-02	8.7011e-01
90	PAN125136	-5.4152	-5.1863	-5.3267	6.2345e-02	8.7010e-01
91	PAN130136	-5.5374	-5.3085	-5.4336	6.4957e-02	8.7011e-01
92	PAN120048	-11.6754	-11.3702	-11.4954	6.6761e-02	8.7047e-01
93	PAN130048	-10.8490	-10.5438	-10.7040	6.4018e-02	8.7041e-01
94	PAN120224	-10.8784	-10.6495	-10.7594	7.0903e-02	8.7042e-01
95	PAN130224	-10.9740	-10.7451	-10.8901	6.0192e-02	8.7043e-01
96	PAN120312	-10.8610	-10.6321	-10.7740	6.8949e-02	8.7042e-01
97	PAN130312	-11.0116	-10.7064	-10.8880	6.1442e-02	8.7043e-01
98	PAB000136	40.4536	40.6367	40.5378	4.3731e-02	5.8879e-01
99	PAB100136	44.5332	44.6705	44.6165	4.5013e-02	5.9063e-01
100	PAB125136	45.5033	45.6864	45.5921	4.2792e-02	5.9109e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.5610	40.4975	6.1605e-02	7.5680e-01
102	PRV000001	19.8194	19.9414	19.8364	4.2787e-02	7.5164e-01
103	PSR000001	45.6953	45.8174	45.7075	3.6993e-02	7.5865e-01
104	PFH000001	1.1540	1.3371	1.2419	6.6587e-02	5.0001e-01
105	PAN000136	-138.6118	-136.3230	-137.6780	4.9769e-01	4.9320e+00
106	PFH000002	1.1580	1.2425	1.2080	1.6355e-02	2.0002e-01
107	EMPTY	-0.0049	0.0049	-0.0023	3.3073e-03	0.0000e+00
108	EMPTY	-6.5479	-5.6348	-5.9773	2.0216e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1520	7.9017e-02	8.1000e-01
113	VPW000002	-0.1200	0.4659	0.1105	1.0206e-01	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1386	9.0412e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0780	9.7377e-02	8.1000e-01
116	VPW000005	0.0800	0.4706	0.1464	1.0145e-01	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1905	1.0942e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	1.2979	1.0591e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	1.0240	1.0004e+00	8.1000e+00
120	IPW000003	1.1513	5.0513	1.9703	1.0490e+00	8.1000e+00
121	IPW000004	-0.1883	0.7883	0.4074	2.4741e-01	2.0000e+00
122	IPW000005	-0.0883	0.8882	0.4195	2.1968e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.2000	2.7902e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0201	4.2590e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0129	3.0819e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	3.3029e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0136	3.5962e-03	0.0000e+00
128	IHT000001	-0.2094	0.1813	0.0289	9.0756e-02	4.1000e+00
129	IHT000002	0.0706	0.4612	0.1878	1.1161e-01	4.1000e+00
130	IHT000003	0.0259	0.2212	0.1158	9.8332e-02	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1631	7.8523e-02	4.1000e+00
132	IHT000005	0.0753	0.2706	0.1534	9.6655e-02	4.1000e+00
133	IHT000006	0.0072	0.3978	0.2103	8.7880e-02	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1337	9.8569e-02	4.1000e+00
135	IHT000008	0.0400	0.4306	0.1416	1.0617e-01	4.1000e+00
136	IHT000009	-0.1200	0.2706	0.0245	1.0297e-01	4.1000e+00
137	IHT000010	-0.0400	0.1553	0.1084	8.4262e-02	4.1000e+00
138	IHT000011	-0.1953	0.1953	0.0742	1.0358e-01	4.1000e+00
139	IHT000012	-0.0375	0.1578	0.0719	9.7935e-02	4.1000e+00
140	IHT000013	-0.4000	0.1859	0.0258	1.0206e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1192	1.0052e-01	4.1000e+00
142	IHT000015	-0.1600	0.2306	0.0627	7.9017e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0059	9.7935e-02	4.1000e+00
144	IHT000017	0.1694	1.1459	0.6264	2.2185e-01	4.1000e+00
145	IHT000018	-0.0353	0.1600	0.0936	9.3461e-02	4.1000e+00
146	IHT000019	-0.1247	0.0706	-0.0661	9.0412e-02	4.1000e+00
147	IHT000020	-0.0234	0.3672	0.0859	1.0559e-01	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0255	1.5288e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0039	4.8166e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1014	9.8648e-02	4.1000e+00
151	IHT000024	0.7853	1.1759	1.0314	9.5112e-02	4.1000e+00
152	IHT000025	-0.5553	-0.1647	-0.3913	9.1354e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.0956	5.3525e-02	4.1000e+00
154	IHT000027	-0.0353	0.3553	0.1366	7.5283e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0539	9.8648e-02	4.1000e+00

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

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	77.6980	78.3338	77.9990	1.7701e-01	1.9000e+00
1	TRF0000002	76.4424	76.8646	76.7337	1.2714e-01	1.9000e+00
2	TFH0000001	78.7693	79.6134	79.1661	2.0598e-01	1.9001e+00
3	TIN0000001	86.2929	87.0280	86.6247	1.6484e-01	1.9002e+00
4	TRV0000001	82.8328	83.7769	83.3908	1.9365e-01	1.9001e+00
5	TSR0000001	77.2408	77.9801	77.6589	1.5078e-01	1.9000e+00
6	TAO020136	83.9374	84.7804	84.3630	2.6482e-01	1.9001e+00
7	TAO050136	84.4454	85.0755	84.7729	1.7433e-01	1.9001e+00
8	TAO070136	78.0802	78.9277	78.4956	2.2222e-01	1.9000e+00
9	TAO080136	83.0457	83.8845	83.5954	1.7422e-01	1.9001e+00
10	TAO090136	84.0508	84.8903	84.4705	2.1214e-01	1.9001e+00
11	TAO100136	84.0714	84.8074	84.3953	1.5148e-01	1.9001e+00
12	TAO105136	86.3669	87.3121	86.8502	2.1427e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.1839	1.2471e-01	1.9011e+00
14	TAO115136	83.5926	84.0599	84.0700	2.3677e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9988	3.2626e-02	1.9008e+00
16	TAO125136	85.6916	86.3218	85.9900	1.4900e-01	1.9002e+00
17	TAO130136	82.1790	82.8082	82.5431	1.5606e-01	1.9001e+00
18	EMPTY	180.3394	221.0677	202.3969	1.0803e+01	1.9274e+00
19	TAO130048	83.2901	84.1300	83.7524	1.9892e-01	1.9001e+00
20	TAO120224	83.5895	84.4312	83.9936	1.7313e-01	1.9001e+00
21	EMPTY	-233.3901	-115.2806	-168.4692	3.5671e+01	1.9190e+00
22	TAO120312	84.0456	84.6767	84.3444	1.6514e-01	1.9001e+00
23	TAO130312	82.5789	83.3155	82.9409	1.6481e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.6386	1.8682e-01	1.9010e+00
25	TRT0700000	84.4174	85.1563	84.7555	1.7046e-01	1.9001e+00
26	TRT1000000	85.1687	85.9032	85.4713	1.7942e-01	1.9002e+00
27	TRT1200000	84.5039	85.2395	84.8530	1.6643e-01	1.9001e+00
28	TRT1250000	87.1889	87.9205	87.5363	2.1052e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9284	1.4130e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9499	2.2354e-01	1.9011e+00
31	TAP050136	85.5604	86.1893	85.8251	1.6713e-01	1.9002e+00
32	TAP070136	84.4561	85.3979	84.9175	2.1363e-01	1.9001e+00
33	TAP080136	84.0665	84.6962	84.4063	1.7012e-01	1.9001e+00
34	TAP090136	83.8748	84.9260	84.3206	2.2411e-01	1.9001e+00
35	TAP100136	84.3926	85.2343	84.7588	1.9960e-01	1.9001e+00
36	TAP105136	85.0949	86.0352	85.5134	2.4513e-01	1.9002e+00
37	TAP110136	82.8447	83.6845	83.3195	1.7403e-01	1.9001e+00
38	TAP115136	86.0592	86.7933	86.3658	1.6389e-01	1.9002e+00
39	TAP120136	85.4383	85.9638	85.7325	1.2740e-01	1.9002e+00
40	TAP125136	84.4033	85.2415	84.8189	1.8697e-01	1.9001e+00
41	TAP130136	84.1699	84.9059	84.5526	1.6285e-01	1.9001e+00
42	TAP120048	84.0441	84.8902	84.4420	2.1623e-01	1.9001e+00
43	TAP130048	84.6578	85.2890	85.0155	1.3764e-01	1.9002e+00
44	TAP120224	84.3391	85.1800	84.8100	1.9723e-01	1.9001e+00
45	TAP130224	84.2955	85.0331	84.5899	1.3454e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	35.9257	37.0772	36.6122	2.3490e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6525	1.1618e-01	1.9010e+00
48	TAI130048	84.6349	85.7913	85.0722	2.8125e-01	1.9002e+00
49	EMPTY	30.3254	31.2749	30.9379	2.0394e-01	1.9006e+00
50	TAI130224	84.0873	85.4571	84.7998	3.6094e-01	1.9001e+00
51	EMPTY	37.9974	38.4572	38.2687	1.8396e-01	1.9010e+00
52	TRR130000	84.0274	85.1815	84.6656	2.4063e-01	1.9001e+00
53	TSI0000001	46.0456	46.6961	46.4230	1.4071e-01	1.9004e+00
54	TSI0000002	60.4831	61.6606	61.1509	2.7229e-01	1.9001e+00
55	TSO0000001	46.3749	47.1371	46.7146	1.8210e-01	1.9004e+00
56	TSO0000002	69.7099	70.8801	70.2163	2.3890e-01	1.9000e+00
57	TAP020136	76.7761	77.9435	77.4511	2.1739e-01	1.9000e+00
58	TAP120312	85.7638	86.8122	86.2085	2.8825e-01	1.9002e+00
59	TAP130312	83.4466	84.0764	83.7828	1.4546e-01	1.9001e+00
60	EMPTY	0.3516	0.3613	0.3561	1.6624e-03	0.0000e+00
61	EMPTY	0.3711	0.3760	0.3713	9.6655e-04	0.0000e+00
62	EMPTY	0.3809	0.3857	0.3851	1.7115e-03	0.0000e+00
63	EMPTY	0.4004	0.4053	0.4006	9.6655e-04	0.0000e+00
64	EMPTY	0.2979	0.2979	0.2979	0.0000e+00	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3176	9.6655e-04	0.0000e+00
66	EMPTY	0.3320	0.3369	0.3362	1.7115e-03	0.0000e+00
67	EMPTY	0.3516	0.3564	0.3547	2.3675e-03	0.0000e+00
68	EMPTY	0.3662	0.3711	0.3688	2.4642e-03	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3861	1.3381e-03	0.0000e+00
70	EMPTY	0.4004	0.4053	0.4047	1.6028e-03	0.0000e+00
71	EMPTY	0.4248	0.4297	0.4277	2.4164e-03	0.0000e+00
72	EMPTY	0.4395	0.4443	0.4430	2.2146e-03	0.0000e+00
73	EMPTY	0.4590	0.4688	0.4636	1.5314e-03	0.0000e+00
74	EMPTY	0.4785	0.4785	0.4785	0.0000e+00	0.0000e+00
75	EMPTY	0.4932	0.4980	0.4979	6.9053e-04	0.0000e+00
76	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
77	EMPTY	0.5322	0.5371	0.5323	6.9053e-04	0.0000e+00
78	EMPTY	0.5518	0.5566	0.5562	1.3381e-03	0.0000e+00
79	EMPTY	0.5762	0.5811	0.5809	9.6655e-04	0.0000e+00
80	PAN020136	-18.1919	-17.8104	-18.0378	7.9332e-02	8.7117e-01
81	PAN050136	-34.8928	-34.4351	-34.6761	1.1153e-01	1.6822e+00
82	PAN070136	-23.1495	-22.9207	-23.0183	6.3627e-02	8.7190e-01
83	PAN080136	-11.6128	-11.4602	-11.5457	6.0957e-02	8.7048e-01
84	PAN090136	-11.6771	-11.4482	-11.5490	6.0566e-02	8.7048e-01
85	PAN100136	-11.6560	-11.4271	-11.5477	7.0786e-02	8.7048e-01
86	PAN105136	-5.7001	-5.4712	-5.6131	6.3571e-02	8.7011e-01
87	PAN110136	-5.8491	-5.6202	-5.7896	5.8267e-02	8.7012e-01
88	PAN115136	-5.6202	-5.3914	-5.5363	6.2135e-02	8.7011e-01
89	PAN120136	-5.9125	-5.6836	-5.7767	6.0271e-02	8.7012e-01
90	PAN125136	-5.7203	-5.4915	-5.5983	7.3922e-02	8.7011e-01
91	PAN130136	-5.9188	-5.5374	-5.7250	6.5775e-02	8.7012e-01
92	PAN120048	-12.0569	-11.9043	-11.9516	4.5958e-02	8.7051e-01
93	PAN130048	-11.4594	-11.1542	-11.2717	8.0403e-02	8.7046e-01
94	PAN120224	-11.4888	-11.2599	-11.3759	6.0173e-02	8.7046e-01
95	PAN130224	-11.5844	-11.2792	-11.4394	7.5904e-02	8.7047e-01
96	PAN120312	-11.4713	-11.2424	-11.3538	5.6022e-02	8.7046e-01
97	PAN130312	-11.6219	-11.3168	-11.4434	6.6494e-02	8.7047e-01
98	PAB000136	40.4078	40.5452	40.4893	4.9190e-02	5.8877e-01
99	PAB100136	44.7163	44.8536	44.7822	3.7177e-02	5.9071e-01
100	PAB125136	45.7322	45.9153	45.8283	4.1617e-02	5.9121e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.4389	40.5610	40.4413	1.7263e-02	7.5678e-01
102	PRV000001	19.8194	19.9414	19.8218	1.7263e-02	7.5164e-01
103	PSR000001	45.9395	46.0616	45.9492	3.3453e-02	7.5875e-01
104	PFH000001	0.4216	0.6047	0.4948	6.4074e-02	5.0000e-01
105	PAN000136	145.9360	144.1050	-145.0663	4.1617e-01	4.9333e+00
106	PFH000002	0.4484	0.4822	0.4657	9.3412e-03	2.0000e-01
107	EMPTY	-0.0049	0.0049	-0.0024	3.0003e-03	0.0000e+00
108	EMPTY	-7.0654	-5.1221	-5.9315	3.5212e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0004	1.3381e-03	0.0000e+00
112	VPW000001	-0.0706	0.3200	0.1403	7.7324e-02	8.1000e-01
113	VPW000002	-0.1200	0.2706	0.1144	8.8233e-02	8.1000e-01
114	VPW000003	0.0800	0.2753	0.1855	9.8332e-02	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0663	1.1995e-01	8.1000e-01
116	VPW000005	0.0800	0.2753	0.1855	9.8332e-02	8.1000e-01
117	VPW000006	-0.0400	0.3506	0.1905	1.0942e-01	8.1000e-01
118	IPW000001	0.3998	4.3045	2.5474	1.1996e+00	8.1000e+00
119	IPW000002	-1.5516	2.3509	0.0094	9.6563e-01	8.1000e+00
120	IPW000003	-0.7987	3.1013	0.8783	1.1150e+00	8.1000e+00
121	IPW000004	0.3000	1.2766	0.3879	2.1364e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.7710	2.8859e-01	2.0000e+00
123	IPW000006	-0.7766	0.6883	-0.0246	3.3029e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0186	2.7902e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0129	2.3675e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0149	2.8608e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	3.4681e-03	0.0000e+00
128	IHT000001	-0.2094	0.3766	0.0211	1.0942e-01	4.1000e+00
129	IHT000002	0.0706	0.2659	0.1527	9.7377e-02	4.1000e+00
130	IHT000003	0.0259	0.4166	0.1197	1.1327e-01	4.1000e+00
131	IHT000004	-0.0400	0.3506	0.1866	9.9512e-02	4.1000e+00
132	IHT000005	-0.1200	0.2706	0.1573	1.0507e-01	4.1000e+00
133	IHT000006	0.0072	0.5931	0.2298	1.0447e-01	4.1000e+00
134	IHT000007	0.0400	0.2353	0.1416	9.8569e-02	4.1000e+00
135	IHT000008	0.0400	0.2353	0.1298	9.8332e-02	4.1000e+00
136	IHT000009	-0.1200	0.0753	0.0206	8.8585e-02	4.1000e+00
137	IHT000010	-0.0400	0.3506	0.1241	9.1354e-02	4.1000e+00
138	IHT000011	0.0000	0.5859	0.1055	1.1975e-01	4.1000e+00
139	IHT000012	-0.0375	0.3531	0.0953	1.0763e-01	4.1000e+00
140	IHT000013	-0.2047	0.1859	0.0570	1.0145e-01	4.1000e+00
141	IHT000014	-0.0800	0.3106	0.1309	7.7324e-02	4.1000e+00
142	IHT000015	0.0353	0.2306	0.0900	8.8585e-02	4.1000e+00
143	IHT000016	-0.0800	0.1153	0.0294	9.7935e-02	4.1000e+00
144	IHT000017	0.3647	0.9506	0.6655	1.6838e-01	4.1000e+00
145	IHT000018	-0.0353	0.3553	0.0858	1.0358e-01	4.1000e+00
146	IHT000019	-0.1247	0.2659	-0.0427	1.0507e-01	4.1000e+00
147	IHT000020	-0.0234	0.1719	0.0547	9.6655e-02	4.1000e+00
148	IHT000021	-1.3888	-0.8028	-1.0723	1.3021e-01	4.1000e+00
149	IHT000022	-0.1953	0.1953	0.0039	7.3716e-02	4.1000e+00
150	IHT000023	-0.0353	0.3553	0.1209	9.6655e-02	4.1000e+00
151	IHT000024	0.9806	1.1759	1.0275	8.4262e-02	4.1000e+00
152	IHT000025	-0.5553	-0.3600	-0.4147	8.8585e-02	4.1000e+00
153	IHT000026	0.0800	0.2753	0.0956	5.3525e-02	4.1000e+00
154	IHT000027	-0.0353	0.1600	0.1327	6.8459e-02	4.1000e+00
155	IHT000028	-0.2000	0.1906	0.0617	1.0885e-01	4.1000e+00

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

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.6980	78.3338	78.1049	1.8084e-01	1.9000e+00
1	TRF000002	76.6535	77.0756	76.8603	1.5069e-01	1.9000e+00
2	TFH000001	79.0858	80.0343	79.6107	1.9675e-01	1.9001e+00
3	TIN000001	86.7124	87.3426	87.0089	1.8574e-01	1.9002e+00
4	TRV000001	83.2524	84.1968	83.6993	1.9398e-01	1.9001e+00
5	TSR000001	77.4523	78.0855	77.7499	1.7404e-01	1.9000e+00
6	TAO020136	84.2531	85.0955	84.6683	2.3827e-01	1.9001e+00
7	TAO050136	84.7599	85.5982	85.1560	1.7231e-01	1.9002e+00
8	TAO070136	78.3977	79.7746	79.0400	3.0969e-01	1.9001e+00
9	TAO080136	83.6736	84.5125	84.0285	1.8703e-01	1.9001e+00
10	TAO090136	84.4703	85.2053	84.9049	2.1305e-01	1.9001e+00
11	TAO100136	84.4917	85.1221	84.8216	1.6578e-01	1.9001e+00
12	TAO105136	86.8917	87.7320	87.3142	2.2391e-01	1.9002e+00
13	EMPT	40.0646	40.5234	40.2344	1.3756e-01	1.9011e+00
14	TAO115136	84.0155	85.0701	84.5112	2.2485e-01	1.9001e+00
15	EMPT	34.7728	35.0035	34.9758	7.5729e-02	1.9000e+00
16	TAO125136	86.2155	86.8454	86.4490	1.4112e-01	1.9002e+00
17	TAO130136	84.3568	84.8801	84.6177	1.5212e-01	1.9001e+00
18	EMPT	68.9852	74.9741	71.9122	1.5494e+00	1.9035e+00
19	TAO130048	85.4902	86.2233	85.7811	1.5033e-01	1.9002e+00
20	TAO120224	82.1170	82.8541	82.4646	2.0535e-01	1.9001e+00
21	EMPT	591.2913	590.8857	591.2749	8.0284e-02	2.1225e+00
22	TAO120312	84.4664	85.2027	84.8260	1.6603e-01	1.9001e+00
23	TAO130312	84.8870	85.6221	85.2297	1.8943e-01	1.9002e+00
24	EMPT	37.3074	37.9974	37.5788	1.8409e-01	1.9010e+00
25	TAF070000	84.9456	85.5794	85.2012	1.5517e-01	1.9002e+00
26	TRT100000	85.2741	86.3226	85.8001	2.4182e-01	1.9002e+00
27	TRT120000	84.9247	85.6595	85.2415	1.6371e-01	1.9002e+00
28	TRT125000	87.6076	88.4420	88.0766	1.8056e-01	1.9002e+00
29	EMPT	37.7675	38.2273	37.9376	1.1199e-01	1.9010e+00
30	EMPT	39.6057	40.2940	39.9591	2.0319e-01	1.9011e+00
31	TAF050136	85.8744	86.7121	86.2124	1.8963e-01	1.9002e+00
32	TAF070136	84.9800	85.9213	85.3210	2.0894e-01	1.9002e+00
33	TAF080136	84.4854	85.0095	84.7596	1.2700e-01	1.9001e+00
34	TAF090136	84.2952	85.2407	84.6967	2.2324e-01	1.9001e+00
35	TAF100136	84.7078	85.5494	85.1226	2.0089e-01	1.9002e+00
36	TAF105136	85.2002	86.3481	85.8914	2.6147e-01	1.9002e+00
37	TAF110136	83.2647	84.1042	83.6866	1.6088e-01	1.9001e+00
38	TAF115136	86.3734	87.2125	86.7409	1.9783e-01	1.9002e+00
39	TAF120136	85.8569	86.4863	86.1614	1.7101e-01	1.9002e+00
40	TAF125136	85.0308	85.6604	85.2811	1.6659e-01	1.9002e+00
41	TAF130136	84.5903	85.4307	84.9790	1.6613e-01	1.9002e+00
42	TAF120048	84.4675	85.2074	84.8331	1.8391e-01	1.9001e+00
43	TAF130048	85.1831	85.8140	85.4673	1.6063e-01	1.9002e+00
44	TAF120224	84.7596	85.6003	85.2283	2.1042e-01	1.9002e+00
45	TAF130224	84.7175	85.3494	85.0441	1.4324e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPT	36.1561	37.0772	36.5615	2.3057e-01	1.9009e+00
47	EMPT	37.5374	37.7675	37.6709	1.1468e-01	1.9010e+00
48	TAF130048	84.9500	86.1061	85.4316	3.0544e-01	1.9002e+00
49	EMPT	30.5629	31.2749	30.8999	1.9822e-01	1.9006e+00
50	TAF130224	84.6145	85.7726	85.2611	3.0017e-01	1.9002e+00
51	EMPT	37.9974	38.6870	38.2963	1.6905e-01	1.9010e+00
52	TRT130000	84.5516	85.6011	85.0117	2.1812e-01	1.9002e+00
53	TSI000001	46.0460	46.6965	46.3951	1.8085e-01	1.9004e+00
54	TSI000002	62.5146	63.4767	63.0086	2.5533e-01	1.9000e+00
55	TSO000001	46.3749	47.0268	46.6987	1.6945e-01	1.9004e+00
56	TSO000002	69.9227	70.8801	70.4141	2.3530e-01	1.9000e+00
57	TAF020136	77.2005	77.9435	77.5546	1.9010e-01	1.9000e+00
58	TAF120312	86.0784	87.1260	86.6545	2.7676e-01	1.9002e+00
59	TAF130312	83.7610	84.6009	84.2251	1.7629e-01	1.9001e+00
60	EMPT	0.3613	0.3662	0.3642	2.4344e-03	0.0000e+00
61	EMPT	0.3760	0.3857	0.3789	2.6100e-03	0.0000e+00
62	EMPT	0.3906	0.3955	0.3913	1.7115e-03	0.0000e+00
63	EMPT	0.4053	0.4102	0.4094	1.8082e-03	0.0000e+00
64	EMPT	0.3027	0.3076	0.3037	1.9730e-03	0.0000e+00
65	EMPT	0.3223	0.3271	0.3262	1.9730e-03	0.0000e+00
66	EMPT	0.3418	0.3418	0.3418	0.0000e+00	0.0000e+00
67	EMPT	0.3564	0.3662	0.3613	9.8648e-04	0.0000e+00
68	EMPT	0.3711	0.3760	0.3759	6.9053e-04	0.0000e+00
69	EMPT	0.3906	0.3955	0.3951	1.3381e-03	0.0000e+00
70	EMPT	0.4102	0.4150	0.4103	6.9053e-04	0.0000e+00
71	EMPT	0.4297	0.4346	0.4344	9.6655e-04	0.0000e+00
72	EMPT	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
73	EMPT	0.4639	0.4736	0.4688	9.8648e-04	0.0000e+00
74	EMPT	0.4834	0.4883	0.4836	9.6655e-04	0.0000e+00
75	EMPT	0.4980	0.5078	0.5029	9.8648e-04	0.0000e+00
76	EMPT	0.5176	0.5225	0.5177	6.9053e-04	0.0000e+00
77	EMPT	0.5371	0.5420	0.5373	9.6655e-04	0.0000e+00
78	EMPT	0.5615	0.5664	0.5616	6.9053e-04	0.0000e+00
79	EMPT	0.5811	0.5957	0.5860	1.5566e-03	0.0000e+00
80	PAN020136	-5.0693	-3.5435	-4.3842	3.4241e-01	8.7007e-01
81	PAN050136	-9.8684	-8.4951	-9.2214	2.2349e-01	1.6802e+00
82	PAN070136	-4.9153	-4.2286	-4.6284	1.5302e-01	8.7008e-01
83	PAN080136	-3.5256	-3.2205	-3.3761	8.5764e-02	8.7004e-01
84	PAN090136	-2.9796	-2.5981	-2.7828	8.4551e-02	8.7003e-01
85	PAN100136	-3.1874	-2.8059	-3.0226	9.2943e-02	8.7003e-01
86	PAN105136	-1.5802	-1.1987	-1.3788	8.5487e-02	8.7001e-01
87	PAN110136	-1.5004	-1.1952	-1.3615	6.8396e-02	8.7001e-01
88	PAN115136	-0.4323	-0.0508	-0.2629	9.9044e-02	8.7000e-01
89	PAN120136	-2.0215	-1.6400	-1.8124	8.4157e-02	8.7001e-01
90	PAN125136	-1.2953	-0.9901	-1.1870	7.7207e-02	8.7001e-01
91	PAN130136	-1.5701	-1.4175	-1.4984	5.4299e-02	8.7001e-01
92	PAN120048	-3.2868	-2.8253	-3.0542	7.8595e-02	8.7003e-01
93	PAN130048	-3.0670	-2.6093	-2.8229	1.0790e-01	8.7003e-01
94	PAN120224	-2.1809	-1.7994	-2.0237	8.6386e-02	8.7001e-01
95	PAN130224	-3.2683	-2.7343	-2.9326	9.3758e-02	8.7003e-01
96	PAN120312	-2.6975	-2.1635	-2.4061	1.1082e-01	8.7002e-01
97	PAN130312	-3.1533	-2.8481	-3.0206	8.8290e-02	8.7003e-01
98	PAB000136	40.3621	40.7283	40.5571	6.9706e-02	5.8880e-01
99	PAB100136	41.6951	41.8782	41.8104	4.2622e-02	5.8934e-01
100	PAB125136	41.9785	42.1159	42.0362	4.1162e-02	5.8944e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.3168	40.8051	40.5146	1.1539e-01	7.5681e-01
102	PRV0000001	19.5752	19.6973	19.5801	2.4164e-02	7.5160e-01
103	PSR0000001	41.5450	41.6670	41.6524	4.0071e-02	7.5719e-01
104	PPH0000001	14.2460	14.7038	14.4969	1.0913e-01	5.0131e-01
105	PAN0000136	37.9038	31.9529	-35.1389	1.2406e+00	4.9208e+00
106	PPH0000002	14.4033	14.6567	14.5283	5.9902e-02	2.0327e-01
107	EMPTY	-0.0049	0.0049	0.0047	1.3811e-03	0.0000e+00
108	EMPTY	-7.9834	-5.7031	-6.2295	4.5430e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0037	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	0.1247	0.3200	0.1755	8.6541e-02	8.1000e-01
113	VPW0000002	-0.1200	0.2706	0.0831	9.6332e-02	8.1000e-01
114	VPW0000003	0.0800	0.4706	0.1737	1.1327e-01	8.1000e-01
115	VPW0000004	-0.0353	0.1600	0.0819	9.6655e-02	8.1000e-01
116	VPW0000005	0.0800	0.4706	0.1542	1.0358e-01	8.1000e-01
117	VPW0000006	-0.0400	0.3506	0.1709	8.6810e-02	8.1000e-01
118	IPW0000001	-1.5525	2.3522	1.1027	1.0255e+00	8.1000e+00
119	IPW0000002	0.3996	4.3022	1.2192	1.0497e+00	8.1000e+00
120	IPW0000003	1.1513	5.0513	2.5553	1.1171e+00	8.1000e+00
121	IPW0000004	0.3000	0.7883	0.6320	2.3008e-01	2.0000e+00
122	IPW0000005	-0.0883	0.8882	0.1461	2.6541e-01	2.0000e+00
123	IPW0000006	-0.2883	1.1766	0.3367	2.9660e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0193	3.4116e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.6762e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0173	2.6488e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0139	3.1752e-03	0.0000e+00
128	INT0000001	-0.2094	0.1813	0.0484	1.0014e-01	4.1000e+00
129	INT0000002	0.0706	0.2659	0.1370	9.3461e-02	4.1000e+00
130	INT0000003	0.0259	0.4166	0.1197	1.0617e-01	4.1000e+00
131	INT0000004	-0.0400	0.3506	0.1514	8.3612e-02	4.1000e+00
132	INT0000005	-0.1200	0.2706	0.1613	1.0559e-01	4.1000e+00
133	INT0000006	0.0072	0.3978	0.2181	9.5357e-02	4.1000e+00
134	INT0000007	0.0400	0.2353	0.1377	9.8648e-02	4.1000e+00
135	INT0000008	0.0400	0.2353	0.1377	9.8648e-02	4.1000e+00
136	INT0000009	-0.1200	0.2706	0.0480	8.8321e-02	4.1000e+00
137	INT0000010	-0.0400	0.3506	0.1241	9.1354e-02	4.1000e+00
138	INT0000011	0.0000	0.1953	0.0742	9.5765e-02	4.1000e+00
139	INT0000012	-0.0375	0.3531	0.0875	1.0992e-01	4.1000e+00
140	INT0000013	-0.2047	0.1859	0.0297	9.6655e-02	4.1000e+00
141	INT0000014	-0.0800	0.3106	0.1192	9.2456e-02	4.1000e+00
142	INT0000015	-0.1600	0.2306	0.0783	9.0756e-02	4.1000e+00
143	INT0000016	-0.0800	0.1153	0.0411	9.5765e-02	4.1000e+00
144	INT0000017	0.1694	1.1459	0.6537	2.2055e-01	4.1000e+00
145	INT0000018	-0.0353	0.3553	0.0702	1.0595e-01	4.1000e+00
146	INT0000019	-0.1247	0.0706	-0.0700	8.8505e-02	4.1000e+00
147	INT0000020	-0.0234	0.3672	0.0781	1.0617e-01	4.1000e+00
148	INT0000021	-1.3888	-0.8028	-1.0684	1.4637e-01	4.1000e+00
149	INT0000022	-0.1953	0.1953	0.0078	6.7888e-02	4.1000e+00
150	INT0000023	-0.0353	0.3553	0.1209	8.8233e-02	4.1000e+00
151	INT0000024	0.7853	1.1759	1.0431	1.0014e-01	4.1000e+00
152	INT0000025	-0.5553	-0.1647	-0.3991	9.6655e-02	4.1000e+00
153	INT0000026	-0.1153	0.2753	0.1034	8.4997e-02	4.1000e+00
154	INT0000027	-0.0353	0.3553	0.1366	7.5283e-02	4.1000e+00
155	INT0000028	-0.2000	0.1906	0.0617	1.0145e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT0000029	0.0000	0.1953	0.0742	9.5765e-02	4.1000e+00
157	INT0000030	0.0000	0.1953	0.0098	9.8332e-02	4.1000e+00
158	INT0000031	0.0400	0.4306	0.2314	1.0052e-01	4.1000e+00
159	INT0000032	-0.0353	0.3553	0.1522	8.7880e-02	4.1000e+00
160	INT0000033	-2.1706	-1.7800	-2.0300	1.0470e-01	4.1000e+00
161	INT0000034	0.0000	0.3906	0.1367	9.8648e-02	4.1000e+00
162	INT0000035	-0.0681	0.3225	0.1467	1.0625e-01	4.1000e+00
163	INT0000036	0.0800	0.2753	0.1152	7.5798e-02	4.1000e+00

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Velocity 1 - 18.0055 (ft/sec) (+/- 3.5060 %)
 Velocity 2 - 13.3644 (ft/sec) (+/- 3.4861 %)
 Pressure drop - 7.2569 (psi)
 Tsat in - 267.9899 (deg F) Tsat out - 257.1754 (deg F)
 Phi inner - 0.0001 (kbtu/hr-ft2) (+/- 1052.4254 %)
 Phi outer - 0.0003 (kbtu/hr-ft2) (+/- 652.0802 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRP000001	77.9100	78.5457	78.1982	1.6996e-01	1.9000e+00
1	TRP000002	76.6535	77.0756	76.9236	1.2090e-01	1.9000e+00
2	TIN000001	78.5599	79.4029	78.9856	1.9404e-01	1.9001e+00
3	TIN000001	85.9774	86.6075	86.3516	1.4101e-01	1.9002e+00
4	TRV000001	82.8331	83.6729	83.2785	2.1909e-01	1.9001e+00
5	TSR000001	77.5577	78.0861	77.8535	1.5218e-01	1.9000e+00
6	TAO020136	84.2532	85.0960	84.7967	1.9305e-01	1.9001e+00
7	TAO050136	84.2375	84.7629	84.4856	1.5232e-01	1.9001e+00
8	TAO070136	78.3969	79.1394	78.7663	2.0095e-01	1.9001e+00
9	TAO080136	83.1523	83.6777	83.4338	1.6609e-01	1.9001e+00
10	TAO090136	83.7360	84.5757	84.1816	1.8199e-01	1.9001e+00
11	TAO100136	83.9667	84.4930	84.1698	1.3241e-01	1.9001e+00
12	TAO105136	86.2619	86.8925	86.6274	1.7658e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.2344	1.2952e-01	1.9011e+00
14	TAO115136	83.2745	84.2248	83.8154	1.9518e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9850	6.3222e-02	1.9008e+00
16	TAO125136	85.4824	86.0080	85.7933	1.4377e-01	1.9002e+00
17	TAO130136	83.8414	84.3643	84.1918	1.2111e-01	1.9001e+00
18	EMPTY	40.9819	42.8139	42.3790	4.0400e-01	1.9012e+00
19	TAO130048	85.0713	85.5965	85.3485	1.4795e-01	1.9002e+00
20	TAO120224	81.2746	82.1177	81.7890	1.8513e-01	1.9001e+00
21	EMPTY	594.5397	594.1332	594.3605	2.0383e-01	2.1247e+00
22	TAO120312	83.7301	84.4663	84.1549	1.5761e-01	1.9001e+00
23	TAO130312	84.3634	84.9935	84.7374	1.5028e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.6018	1.9185e-01	1.9010e+00
25	TIT070000	84.0993	84.8384	84.5679	1.7079e-01	1.9001e+00
26	TIT100000	84.7501	85.6943	85.2581	2.0033e-01	1.9002e+00
27	TIT120000	84.2941	84.8198	84.5718	1.5423e-01	1.9001e+00
28	TIT125000	86.9820	87.9219	87.4210	1.8394e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9376	1.1199e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9866	2.2526e-01	1.9011e+00
31	TAP050136	85.2477	86.0859	85.5916	1.7593e-01	1.9002e+00
32	TAP070136	84.1449	85.0874	84.6684	2.5183e-01	1.9001e+00
33	TAP080136	83.8597	84.3846	84.1702	1.5840e-01	1.9001e+00
34	TAP090136	83.5603	84.6109	84.1235	2.6662e-01	1.9001e+00
35	TAP100136	84.1820	84.8131	84.5063	1.5886e-01	1.9001e+00
36	TAP105136	84.8883	85.6210	85.2068	2.0003e-01	1.9002e+00
37	TAP110136	82.7412	83.3707	83.0315	1.6784e-01	1.9001e+00
38	TAP115136	85.6405	86.5044	86.1357	1.9188e-01	1.9002e+00
39	TAP120136	85.3351	85.7548	85.5161	1.2196e-01	1.9002e+00
40	TAP125136	84.3006	85.2429	84.5862	1.6120e-01	1.9001e+00
41	TAP130136	84.0649	84.5913	84.3973	1.4927e-01	1.9001e+00
42	TAP120048	83.7250	84.5718	84.1692	1.9820e-01	1.9001e+00
43	TAP130048	84.6578	84.9739	84.8305	1.0787e-01	1.9001e+00
44	TAP120224	84.2336	85.1800	84.6419	1.5904e-01	1.9001e+00
45	TAP120224	84.1873	84.5036	84.3601	1.0791e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	36.8470	36.5569	2.0708e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6847	1.1153e-01	1.9010e+00
48	TAP130048	84.2142	85.3704	84.7863	2.7873e-01	1.9001e+00
49	EMPTY	30.8003	31.7493	31.1894	2.5256e-01	1.9007e+00
50	TAP130224	83.9812	85.2458	84.5505	2.7768e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2779	1.7556e-01	1.9010e+00
52	TAP130000	83.8183	84.9726	84.4230	2.3563e-01	1.9001e+00
53	TSI000001	46.1549	46.9135	46.5230	1.9336e-01	1.9004e+00
54	TSI000002	63.1555	64.2232	63.7069	2.8243e-01	1.9000e+00
55	TSO000001	46.2650	47.2447	46.7267	2.0816e-01	1.9004e+00
56	TSO000002	70.2415	71.0921	70.7012	1.9977e-01	1.9000e+00
57	TAP020136	77.3860	77.9435	77.6882	1.5898e-01	1.9000e+00
58	TAP120312	85.6598	86.4989	86.0839	2.4048e-01	1.9002e+00
59	TAP130112	83.2381	83.9729	83.5785	1.5385e-01	1.9001e+00
60	EMPTY	0.3467	0.3516	0.3469	9.6655e-04	0.0000e+00
61	EMPTY	0.3613	0.3711	0.3617	1.6624e-03	0.0000e+00
62	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
63	EMPTY	0.3906	0.3955	0.3916	1.7330e-03	0.0000e+00
64	EMPTY	0.3979	0.3827	0.3826	6.9053e-04	0.0000e+00
65	EMPTY	0.3223	0.3221	0.3225	9.6655e-04	0.0000e+00
66	EMPTY	0.3369	0.3418	0.3401	2.3365e-03	0.0000e+00
67	EMPTY	0.3564	0.3613	0.3571	1.7115e-03	0.0000e+00
68	EMPTY	0.3711	0.3760	0.3730	2.4164e-03	0.0000e+00
69	EMPTY	0.3906	0.3955	0.3908	9.6655e-04	0.0000e+00
70	EMPTY	0.4053	0.4102	0.4076	2.4642e-03	0.0000e+00
71	EMPTY	0.4297	0.4346	0.4310	2.1635e-03	0.0000e+00
72	EMPTY	0.4443	0.4492	0.4455	2.1065e-03	0.0000e+00
73	EMPTY	0.4639	0.4688	0.4669	2.3941e-03	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
75	EMPTY	0.4980	0.5029	0.5019	2.0432e-03	0.0000e+00
76	EMPTY	0.5127	0.5176	0.5175	6.9053e-04	0.0000e+00
77	EMPTY	0.5322	0.5371	0.5369	9.6655e-04	0.0000e+00
78	EMPTY	0.5566	0.5615	0.5605	1.9730e-03	0.0000e+00
79	EMPTY	0.5762	0.5859	0.5813	1.6972e-03	0.0000e+00
80	PAN020136	23.8831	26.5927	24.5327	7.1087e-01	8.7216e-01
81	PAN050136	45.5210	46.7417	46.1771	2.4902e-01	1.6840e+00
82	PAN070136	34.6050	35.6731	35.1543	2.5468e-01	8.7443e-01
83	PAN080136	14.2509	15.0901	14.6277	2.1711e-01	8.7077e-01
84	PAN090136	15.6361	16.2465	15.9764	1.2915e-01	8.7092e-01
85	PAN100136	14.4365	15.0469	14.6974	1.7377e-01	8.7078e-01
86	PAN105136	7.1936	7.8802	7.4911	1.5278e-01	8.7020e-01
87	PAN110136	7.8838	8.3416	8.0577	9.5066e-02	8.7023e-01
88	PAN115136	11.7748	12.6903	12.2173	2.5884e-01	8.7054e-01
89	PAN120136	5.3790	6.2183	5.7773	2.2981e-01	8.7012e-01
90	PAN125136	8.6992	9.3096	9.0074	1.6598e-01	8.7029e-01
91	PAN130136	6.3645	7.2037	6.7780	2.1912e-01	8.7016e-01
92	PAN120048	15.2563	16.1719	15.7355	1.9802e-01	8.7089e-01
93	PAN130048	14.5569	15.4724	14.9551	2.1760e-01	8.7080e-01
94	PAN120224	18.2659	18.7999	18.4917	1.4039e-01	8.7123e-01
95	PAN130224	15.7289	16.3392	15.9471	1.3350e-01	8.7091e-01
96	PAN120312	16.6812	17.2152	17.0245	1.3371e-01	8.7104e-01
97	PAN130312	15.8046	15.6150	15.2793	1.4127e-01	8.7084e-01
98	PAN000136	40.1790	40.6367	40.4108	9.2279e-02	5.8874e-01
99	PAN100136	35.0575	35.3779	35.2141	7.1690e-02	5.8664e-01
100	PAN125136	33.5557	33.8303	33.6646	6.9139e-02	5.8607e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0727	40.8051	40.3339	1.5600e-01	7.5675e-01
102	PRV000001	18.7207	18.9649	18.8428	2.4662e-02	7.5148e-01
103	PSR000001	31.7793	31.9014	31.8104	5.7521e-02	7.5421e-01
104	PPH000001	49.9516	51.1418	50.5034	3.1943e-01	5.1574e-01
105	PAN000136	198.3022	206.0842	200.9115	1.7843e+00	4.9456e+00
106	PPH000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0146	0.0085	2.3778e-03	0.0000e+00
108	EMPTY	6.6064	-4.8145	-5.9272	2.9065e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
110	EMPTY	10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0021	2.4344e-03	0.0000e+00
112	VPH000001	-0.0706	0.3200	0.1559	9.1354e-02	0.1000e-01
113	VPH000002	0.0753	0.2706	0.1222	8.4262e-02	0.1000e-01
114	VPH000003	0.0800	0.4706	0.1855	1.0595e-01	0.1000e-01
115	VPH000004	-0.0353	0.5506	0.0819	1.2478e-01	0.1000e-01
116	VPH000005	0.0800	0.4706	0.1933	1.0587e-01	0.1000e-01
117	VPH000006	-0.0400	0.3506	0.2217	1.0885e-01	0.1000e-01
118	IPW000001	0.3998	4.3045	2.9379	1.2628e+00	0.1000e+00
119	IPW000002	0.3996	4.3022	1.2972	1.0585e+00	0.1000e+00
120	IPW000003	-0.7987	3.1013	1.0343	1.1425e+00	0.1000e+00
121	IPW000004	-0.1883	0.7883	0.4270	2.3778e-01	2.0000e+00
122	IPW000005	0.4000	1.3764	0.8198	3.1208e-01	2.0000e+00
123	IPW000006	-0.2883	0.6883	0.0633	2.6174e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0187	3.6500e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5362e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0149	3.3322e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0134	3.0897e-03	0.0000e+00
128	INT000001	-0.2094	0.1813	0.0211	8.5454e-02	4.1000e+00
129	INT000002	0.0706	0.2659	0.1605	9.8332e-02	4.1000e+00
130	INT000003	0.0259	0.2212	0.1392	9.7377e-02	4.1000e+00
131	INT000004	-0.0400	0.3506	0.1748	8.1347e-02	4.1000e+00
132	INT000005	0.0753	0.2706	0.1613	9.7935e-02	4.1000e+00
133	INT000006	0.0872	0.5931	0.2298	1.1168e-01	4.1000e+00
134	INT000007	0.0400	0.4306	0.1416	1.0617e-01	4.1000e+00
135	INT000008	0.0400	0.4306	0.1455	1.0595e-01	4.1000e+00
136	INT000009	-0.1200	0.2706	0.0519	8.4997e-02	4.1000e+00
137	INT000010	-0.0400	0.3506	0.1358	9.8648e-02	4.1000e+00
138	INT000011	0.0800	0.3906	0.0781	1.0440e-01	4.1000e+00
139	INT000012	-0.0375	0.3531	0.0875	1.0259e-01	4.1000e+00
140	INT000013	-0.2047	0.1859	0.0492	9.8648e-02	4.1000e+00
141	INT000014	-0.0800	0.3106	0.1466	9.9512e-02	4.1000e+00
142	INT000015	-0.1600	0.2306	0.0861	9.5112e-02	4.1000e+00
143	INT000016	-0.0800	0.3106	0.0177	1.0625e-01	4.1000e+00
144	INT000017	0.3647	0.9506	0.6537	1.5404e-01	4.1000e+00
145	INT000018	-0.0353	0.3553	0.1053	9.6976e-02	4.1000e+00
146	INT000019	-0.1247	0.2659	-0.0309	1.0617e-01	4.1000e+00
147	INT000020	-0.0234	0.1719	0.0625	9.7935e-02	4.1000e+00
148	INT000021	-1.1934	0.6075	-0.9825	1.1732e-01	4.1000e+00
149	INT000022	-0.1953	0.1953	0.0039	6.2265e-02	4.1000e+00
150	INT000023	-0.0353	0.1600	0.1287	7.2330e-02	4.1000e+00
151	INT000024	0.9806	1.1759	1.0705	9.8332e-02	4.1000e+00
152	INT000025	-0.5553	-0.1647	-0.3991	8.8233e-02	4.1000e+00
153	INT000026	0.0800	0.2753	0.0917	4.6855e-02	4.1000e+00
154	INT000027	-0.0353	0.3553	0.1405	7.1136e-02	4.1000e+00
155	INT000028	-0.0047	0.3859	0.0695	1.0358e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	0.0000	0.3906	0.1133	1.0507e-01	4.1000e+00
157	INT000030	0.0000	0.3906	0.0898	1.0595e-01	4.1000e+00
158	INT000031	0.0000	0.8213	0.2431	1.2453e-01	4.1000e+00
159	INT000032	-0.0353	0.3553	0.1405	7.1136e-02	4.1000e+00
160	INT000033	-2.1786	-1.7880	-1.9675	9.6332e-02	4.1000e+00
161	INT000034	0.0000	0.3906	0.1406	9.6976e-02	4.1000e+00
162	INT000035	-0.0601	0.3225	0.1545	8.8321e-02	4.1000e+00
163	INT000036	-0.1153	0.2753	0.1034	7.5283e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	77.9100	78.5457	78.3126	1.8288e-01	1.9000e+00
1	TRF000002	76.8646	77.2866	76.9827	1.1488e-01	1.9000e+00
2	TRF000001	78.1391	78.9824	78.5288	2.2163e-01	1.9000e+00
3	TIN000001	85.4522	86.1878	85.8956	1.7674e-01	1.9002e+00
4	TRV000001	82.4147	83.1492	82.8241	1.9692e-01	1.9001e+00
5	TSR000001	77.6632	78.1915	77.9318	1.5255e-01	1.9000e+00
6	TAO20136	84.0425	85.0955	84.6259	2.5280e-01	1.9001e+00
7	TAW50136	83.7155	84.4496	84.0491	1.8436e-01	1.9001e+00
8	TAO70136	78.2910	79.0336	78.7300	2.1618e-01	1.9001e+00
9	TAO80136	82.8392	83.3648	83.0980	1.6038e-01	1.9001e+00
10	TAO90136	83.4211	84.1573	83.8314	1.9718e-01	1.9001e+00
11	TNO100136	83.4414	84.1779	83.7637	1.6791e-01	1.9001e+00
12	TNO105136	85.8416	86.5773	86.2135	1.9129e-01	1.9002e+00
13	EMPTY	40.0646	40.5234	40.2923	1.3903e-01	1.9011e+00
14	TNO115136	82.9568	83.9074	83.4322	1.9810e-01	1.9001e+00
15	EMPTY	34.7728	35.0035	34.9712	0.0862e-02	1.9000e+00
16	TNO125136	85.1684	85.6935	85.3764	1.6228e-01	1.9002e+00
17	TNO130136	83.5319	84.0550	83.8555	1.2755e-01	1.9001e+00
18	EMPTY	40.0646	40.2940	40.1656	1.1503e-01	1.9011e+00
19	TNO130048	84.7575	85.2829	85.0204	1.5619e-01	1.9002e+00
20	TNO120224	80.9590	81.6968	81.4079	1.5476e-01	1.9001e+00
21	EMPTY	597.7957	597.7957	597.7954	1.0827e-04	2.1272e+00
22	TNO120312	83.4141	84.0455	83.7446	1.5038e-01	1.9001e+00
23	TNO130312	83.9450	84.7845	84.3708	1.8788e-01	1.9001e+00
24	EMPTY	37.3074	37.9974	37.6018	1.8614e-01	1.9010e+00
25	TRT070000	83.7801	84.3896	84.1122	1.5378e-01	1.9001e+00
26	TRT100000	84.4362	85.1711	84.8497	1.6289e-01	1.9001e+00
27	TRT120000	83.9788	84.5052	84.1792	1.3484e-01	1.9001e+00
28	TRT125000	86.4613	87.4822	86.9820	1.8710e-01	1.9002e+00
29	EMPTY	37.7675	38.2273	37.9376	1.1199e-01	1.9010e+00
30	EMPTY	39.6057	40.2940	39.9683	1.8000e-01	1.9011e+00
31	TAP050136	84.8291	85.4589	85.1129	1.7508e-01	1.9002e+00
32	TAP070136	83.8326	84.7748	84.2411	1.8712e-01	1.9001e+00
33	TAP080136	83.3392	84.0724	83.7099	1.5750e-01	1.9001e+00
34	TAP090136	83.1400	84.0863	83.6342	2.1683e-01	1.9001e+00
35	TAP100136	83.6554	84.3927	84.0622	1.6477e-01	1.9001e+00
36	TAP105136	84.3683	85.3092	84.8137	2.3182e-01	1.9001e+00
37	TAP110136	82.3237	82.9534	82.6444	1.6775e-01	1.9001e+00
38	TAP115136	85.3266	86.0611	85.7106	2.0503e-01	1.9002e+00
39	TAP120136	84.8132	85.3378	85.1257	1.5653e-01	1.9002e+00
40	TAP125136	83.8845	84.5128	84.1668	1.6167e-01	1.9001e+00
41	TAP130136	83.5398	84.2760	83.9036	1.6910e-01	1.9001e+00
42	TAP120048	83.1942	84.1479	83.7763	2.1410e-01	1.9001e+00
43	TAP130048	84.1323	84.6583	84.4752	1.3581e-01	1.9001e+00
44	TAP120224	83.8135	84.4445	84.1646	1.8719e-01	1.9001e+00
45	TAP130224	83.6574	84.1850	84.0144	1.3614e-01	1.9001e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	36.1561	37.0772	36.5937	1.8754e-01	1.9009e+00
47	EMPTY	37.5374	37.7675	37.6663	1.1534e-01	1.9010e+00
48	TAI130048	83.8983	85.1607	84.4309	3.0976e-01	1.9001e+00
49	EMPTY	30.8803	31.7493	31.1278	2.2934e-01	1.9007e+00
50	TAI130224	83.4536	84.8242	84.1348	3.1686e-01	1.9001e+00
51	EMPTY	37.9974	38.6870	38.2595	1.5410e-01	1.9010e+00
52	TNO130000	83.5042	84.4492	84.0103	2.4704e-01	1.9001e+00
53	TSI000001	46.1553	47.8217	46.6877	1.9054e-01	1.9004e+00
54	TSI000002	63.6897	64.6509	64.2599	2.8902e-01	1.9000e+00
55	TSO000001	46.3738	47.1366	46.8593	1.6921e-01	1.9004e+00
56	TSO000002	70.8294	71.0927	70.4865	2.2152e-01	1.9000e+00
57	TAP020136	77.4120	78.1549	77.7622	1.9203e-01	1.9000e+00
58	TAF120312	85.0320	86.0790	85.6002	2.6950e-01	1.9002e+00
59	TAF130312	82.9240	83.1621	83.1621	1.7353e-01	1.9001e+00
60	EMPTY	0.3320	0.3369	0.3362	1.7115e-03	0.0000e+00
61	EMPTY	0.3467	0.3516	0.3509	1.7115e-03	0.0000e+00
62	EMPTY	0.3613	0.3662	0.3647	2.2603e-03	0.0000e+00
63	EMPTY	0.3760	0.3809	0.3808	6.9053e-04	0.0000e+00
64	EMPTY	0.2979	0.3027	0.2987	1.8950e-03	0.0000e+00
65	EMPTY	0.3174	0.3223	0.3214	1.8950e-03	0.0000e+00
66	EMPTY	0.3369	0.3369	0.3369	0.0000e+00	0.0000e+00
67	EMPTY	0.3564	0.3564	0.3564	0.0000e+00	0.0000e+00
68	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
69	EMPTY	0.3857	0.3906	0.3904	6.6655e-04	0.0000e+00
70	EMPTY	0.4053	0.4102	0.4054	6.9053e-04	0.0000e+00
71	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
72	EMPTY	0.4443	0.4443	0.4443	0.0000e+00	0.0000e+00
73	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
74	EMPTY	0.4785	0.4834	0.4818	2.3008e-03	0.0000e+00
75	EMPTY	0.4980	0.5029	0.4984	1.3381e-03	0.0000e+00
76	EMPTY	0.5127	0.5176	0.5135	1.8882e-03	0.0000e+00
77	EMPTY	0.5322	0.5371	0.5351	2.4344e-03	0.0000e+00
78	EMPTY	0.5566	0.5615	0.5568	9.6655e-04	0.0000e+00
79	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
80	PAN020136	50.6252	54.8977	52.2351	9.8783e-01	0.7975e 01
81	PAN050136	96.3328	98.4690	97.4619	4.5620e-01	1.6976e+00
82	PAN070136	71.8364	73.5149	72.6390	3.3637e-01	0.8875e 01
83	PAN080136	31.4933	32.4088	31.9297	2.0793e-01	0.7365e 01
84	PAN090136	32.5734	33.2600	32.9625	1.6690e-01	0.7389e 01
85	PAN100136	30.9923	32.5182	31.5248	2.7334e-01	0.7356e 01
86	PAN105136	16.8437	17.4170	16.6159	2.8053e-01	0.7099e 01
87	PAN110136	16.9628	17.4968	17.2481	1.2216e-01	0.7107e 01
88	PAN115136	21.9219	23.1426	22.6345	2.3810e-01	0.7184e 01
89	PAN120136	13.6951	15.2972	14.2047	2.8855e-01	0.7072e 01
90	PAN125136	17.0153	17.6256	17.3342	1.3410e-01	0.7108e 01
91	PAN130136	15.3672	16.0538	15.7319	1.3551e-01	0.7089e 01
92	PAN120048	33.1091	34.9402	34.0720	3.7150e-01	0.7416e 01
93	PAN130048	31.6467	32.5623	32.1472	2.0165e-01	0.7370e 01
94	PAN120224	37.4156	38.1786	37.8261	1.4935e-01	0.7512e 01
95	PAN130224	32.5898	33.1239	32.8996	1.3561e-01	0.7388e 01
96	PAN120312	34.0762	34.6865	34.3478	1.3627e-01	0.7423e 01
97	PAN130312	31.5604	32.3234	31.9434	1.7059e-01	0.7366e 01
98	PAN000136	40.3621	41.0029	40.6459	1.3112e-01	5.8883e 01
99	PAN100136	29.1981	29.4728	29.3455	6.4929e-02	5.8462e 01
100	PAN125136	26.0483	26.2315	26.1463	4.3388e-02	5.8367e 01

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I	Name	Min	Max	Ave	SD	Uncert
101	PIM000001	40.1948	41.0493	40.5951	1.7791e-01	7.5604e-01
102	PRV000001	19.2090	19.3311	19.2285	4.5206e-02	7.5154e-01
103	PSB000001	23.1123	23.2344	23.1270	4.0871e-02	7.5223e-01
104	PPH000001	85.6572	87.8544	86.6789	5.7884e-01	5.4494e-01
105	PAM000136	420.3176	429.4729	423.9890	2.2224e+00	5.0129e+00
106	PPH000002	27.7669	27.7669	27.7669	1.3487e-05	2.1170e-01
107	EMPTY	0.0049	0.0098	0.0097	6.9053e-04	0.0000e+00
108	EMPTY	-6.4648	-4.7900	-5.8164	2.6557e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0097	1.8882e-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	VPM000001	-0.0706	0.3280	0.1442	1.0625e-01	8.1000e-01
113	VPM000002	-0.1200	0.2706	0.1027	7.9017e-02	8.1000e-01
114	VPM000003	0.0800	0.4706	0.2245	1.1027e-01	8.1000e-01
115	VPM000004	-0.0353	0.1600	0.0467	9.7377e-02	8.1000e-01
116	VPM000005	-0.1153	0.2753	0.0995	9.0412e-02	8.1000e-01
117	VPM000006	0.1553	0.3506	0.2295	9.5765e-02	8.1000e-01
118	IPM000001	0.3998	2.3522	1.4151	9.8529e-01	8.1000e+00
119	IPM000002	0.3996	4.3022	1.3362	1.1316e+00	8.1000e+00
120	IPM000003	-0.7987	5.0513	1.8533	1.1660e+00	8.1000e+00
121	IPM000004	0.3000	0.7803	0.4750	2.3675e-01	2.0000e+00
122	IPM000005	-0.0803	0.8802	0.3414	3.0625e-01	2.0000e+00
123	IPM000006	-0.2883	0.6803	0.2488	2.8334e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0202	3.2733e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.7982e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0178	2.7488e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0140	3.4187e-03	0.0000e+00
128	INT000001	-0.2094	0.3766	0.0250	9.6655e-02	4.1000e+00
129	INT000002	0.0706	0.4612	0.1448	1.0358e-01	4.1000e+00
130	INT000003	0.0259	0.4166	0.1275	1.0617e-01	4.1000e+00
131	INT000004	0.0400	0.3506	0.1788	8.4997e-02	4.1000e+00
132	INT000005	0.0753	0.4659	0.1652	1.1306e-01	4.1000e+00
133	INT000006	0.0072	0.3978	0.2220	1.1334e-01	4.1000e+00
134	INT000007	0.0400	0.4306	0.1337	1.1327e-01	4.1000e+00
135	INT000008	0.0400	0.4306	0.1337	1.1327e-01	4.1000e+00
136	INT000009	-0.1200	0.2706	0.0167	1.1334e-01	4.1000e+00
137	INT000010	-0.0400	0.3506	0.1202	1.0942e-01	4.1000e+00
138	INT000011	0.0000	0.1953	0.0625	9.2034e-02	4.1000e+00
139	INT000012	-0.0375	0.3531	0.0914	1.1578e-01	4.1000e+00
140	INT000013	-0.0094	0.1859	0.0336	8.1729e-02	4.1000e+00
141	INT000014	-0.0800	0.3106	0.1114	1.0052e-01	4.1000e+00
142	INT000015	-0.1600	0.2306	0.0861	9.5112e-02	4.1000e+00
143	INT000016	-0.0800	0.3106	0.0255	1.0595e-01	4.1000e+00
144	INT000017	0.1694	1.1459	0.6420	2.0538e-01	4.1000e+00
145	INT000018	-0.0353	0.3553	0.1092	1.1027e-01	4.1000e+00
146	INT000019	-0.1247	0.0706	-0.0388	9.7935e-02	4.1000e+00
147	INT000020	-0.2188	0.3672	0.0898	1.1223e-01	4.1000e+00
148	INT000021	-1.1934	-0.6075	-0.8575	1.3692e-01	4.1000e+00
149	INT000022	-0.1953	0.1953	0.0078	7.8523e-02	4.1000e+00
150	INT000023	0.0353	0.1600	0.1209	7.8918e-02	4.1000e+00
151	INT000024	0.9806	1.1759	1.0861	9.8332e-02	4.1000e+00
152	INT000025	0.5553	0.1647	-0.3991	8.8233e-02	4.1000e+00
153	INT000026	-0.1153	0.2753	0.1073	8.8321e-02	4.1000e+00
154	INT000027	-0.0353	0.3553	0.1327	7.9017e-02	4.1000e+00
155	INT000028	0.0047	0.1906	0.0734	9.6655e-02	4.1000e+00

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I	Name	Min	Max	Ave	SD	Uncert
156	INT000029	0.0000	0.1953	0.1328	9.2034e-02	4.1000e+00
157	INT000030	0.0000	0.1953	0.0977	9.8648e-02	4.1000e+00
158	INT000031	0.0400	0.4306	0.2470	7.2866e-02	4.1000e+00
159	INT000032	-0.0353	0.3553	0.1639	6.2265e-02	4.1000e+00
160	INT000033	-2.1786	-1.9753	-2.0066	7.2330e-02	4.1000e+00
161	INT000034	0.0000	0.3906	0.1289	1.0145e-01	4.1000e+00
162	INT000035	-0.0681	0.3225	0.1350	6.7888e-02	4.1000e+00
163	INT000036	0.0000	0.2753	0.0995	5.9189e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.4813	1.4241e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1254	1.3263e-01	1.9000e+00
2	TFM000001	87.0794	87.7082	87.3647	1.8565e-01	1.9002e+00
3	TIN000001	87.2565	88.0961	87.6680	1.8829e-01	1.9002e+00
4	TRV000001	86.8377	88.5101	87.6034	3.4650e-01	1.9002e+00
5	TSR000001	87.4509	88.4963	87.8821	2.5197e-01	1.9002e+00
6	EMPTY	601.0594	601.0594	601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.8680	87.6006	87.1071	1.8186e-01	1.9002e+00
8	TAO070136	88.0549	88.8959	88.4506	2.1181e-01	1.9002e+00
9	TAO080136	87.7349	88.3616	88.0736	1.6567e-01	1.9002e+00
10	TAO090136	87.5065	88.2391	87.9000	1.6723e-01	1.9002e+00
11	TAO100136	87.8177	88.4465	88.1114	1.3552e-01	1.9002e+00
12	TAO105136	87.9663	88.7000	88.4024	2.0899e-01	1.9002e+00
13	EMPTY	40.7527	41.4403	41.0828	1.3227e-01	1.9011e+00
14	TAO115136	87.2809	88.0175	87.6641	2.1109e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5513	5.5183e-02	1.9009e+00
16	TAO125136	87.6087	88.2372	87.9567	1.7109e-01	1.9002e+00
17	TAO130136	87.6617	88.3889	87.9651	1.6939e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2707	1.0152e-01	1.9011e+00
19	TAO130048	87.5696	88.3016	87.9376	1.5289e-01	1.9002e+00
20	TAO120224	87.2711	88.0044	87.6231	1.5529e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9076	1.0336e-01	1.9010e+00
22	TAO120312	87.5505	88.2847	87.9153	1.7370e-01	1.9002e+00
23	TAO130312	87.3422	87.7622	87.5815	1.2536e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3393	1.9877e-01	1.9010e+00
25	TAT070000	87.2403	88.0820	87.7329	1.7717e-01	1.9002e+00
26	TAT100000	87.8418	88.7827	88.3484	2.1888e-01	1.9002e+00
27	TAT120000	87.7526	88.3813	88.0630	1.5253e-01	1.9002e+00
28	TAT125000	87.8338	88.5642	88.1385	1.9196e-01	1.9002e+00
29	EMPTY	39.3761	39.6057	39.5873	6.2916e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6791	1.9365e-01	1.9011e+00
31	TAP050136	87.6858	88.4176	88.0711	1.6967e-01	1.9002e+00
32	TAP070136	88.2798	89.1152	88.7145	2.0037e-01	1.9002e+00
33	TAP080136	87.5771	88.5155	88.0783	1.6733e-01	1.9002e+00
34	TAP090136	88.0689	88.8022	88.4378	2.1902e-01	1.9002e+00
35	TAP100136	87.4203	88.2595	87.8988	1.6845e-01	1.9002e+00
36	TAP105136	87.6927	88.5261	88.1262	2.5550e-01	1.9002e+00
37	TAP110136	87.4834	88.2157	87.8688	1.5885e-01	1.9002e+00
38	TAP115136	88.1606	88.7891	88.4374	1.7532e-01	1.9002e+00
39	TAP120136	87.7306	88.3585	88.0616	1.7338e-01	1.9002e+00
40	TAP125136	88.0038	88.6312	88.3012	1.5121e-01	1.9002e+00
41	TAP130136	87.8078	88.4364	88.0930	1.4362e-01	1.9002e+00
42	TAP120048	88.0322	88.8748	88.4500	2.1587e-01	1.9002e+00
43	TAP130048	87.6273	88.0473	87.8666	1.1419e-01	1.9002e+00
44	TAP120224	87.7423	88.4759	88.1821	1.6799e-01	1.9002e+00
45	TAP130224	87.2704	87.9008	87.5856	1.8023e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0986	2.6341e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1786	8.0489e-02	1.9010e+00
48	TAP130048	87.8237	88.9765	88.2640	2.7444e-01	1.9002e+00
49	TAP130136	87.1351	88.1813	87.6962	2.1000e-01	1.9002e+00
50	TAP130224	87.6888	88.7387	88.2099	2.7655e-01	1.9002e+00
51	TAP130312	87.1956	88.0350	87.6658	1.8870e-01	1.9002e+00
52	TAP130000	86.8619	87.9087	87.3647	2.4198e-01	1.9002e+00
53	TS1000001	79.5133	80.2513	79.8968	1.5471e-01	1.9001e+00
54	TS1000002	70.5115	71.6788	71.0634	2.9086e-01	1.9000e+00
55	TS0000001	67.4465	68.3025	67.8279	1.8854e-01	1.9000e+00
56	TS0000002	79.4731	80.2122	79.8533	1.7970e-01	1.9001e+00
57	TAP020136	87.1944	88.0367	87.6448	1.8670e-01	1.9002e+00
58	TAP120312	74.5334	75.6981	75.1010	2.5834e-01	1.9000e+00
59	TAP130312	86.9296	87.7680	87.4118	1.7964e-01	1.9002e+00
60	EMPTY	0.4932	0.4980	0.4948	2.3365e-03	0.0000e+00
61	EMPTY	0.5078	0.5127	0.5094	2.3008e-03	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5235	2.0432e-03	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5396	2.4642e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3444	2.4583e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3651	2.0432e-03	0.0000e+00
66	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3989	2.2603e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4124	2.4583e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4300	1.1714e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4457	2.2146e-03	0.0000e+00
71	EMPTY	0.4639	0.4736	0.4690	1.5314e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4838	1.3381e-03	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5179	1.1714e-03	0.0000e+00
75	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5516	9.6655e-04	0.0000e+00
77	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5921	2.1635e-03	0.0000e+00
79	EMPTY	0.6152	0.6152	0.6152	0.0000e+00	0.0000e+00
80	PAN020136	67.8518	71.7428	69.9621	8.8486e-01	8.8741e-01
81	PAN050136	141.0256	143.3144	142.0479	4.4700e-01	1.7171e+00
82	PAN070136	100.0334	100.0334	100.0334	7.7069e-06	9.0522e-01
83	PAN080136	43.7371	44.6526	44.1659	2.3370e-01	8.7698e-01
84	PAN090136	44.0512	44.7378	44.3853	1.8996e-01	8.7705e-01
85	PAN100136	46.0685	46.7552	46.4073	1.7920e-01	8.7770e-01
86	PAN105136	29.9110	31.0554	30.3901	2.5794e-01	8.7331e-01
87	PAN110136	26.8475	27.4579	27.1130	1.1763e-01	8.7264e-01
88	PAN115136	25.5168	26.6612	26.1622	3.0016e-01	8.7246e-01
89	PAN120136	18.3936	19.2328	18.7247	2.0251e-01	8.7126e-01
90	PAN125136	19.4543	20.2172	19.8937	1.9101e-01	8.7142e-01
91	PAN130136	17.6687	18.4317	18.0242	1.5840e-01	8.7117e-01
92	PAN120048	43.2251	43.9118	43.5242	1.5168e-01	8.7678e-01
93	PAN130048	40.7455	41.4322	41.0186	1.6392e-01	8.7602e-01
94	PAN120224	45.6782	46.4411	46.0154	1.7580e-01	8.7757e-01
95	PAN130224	40.2364	40.9231	40.5874	1.5491e-01	8.7590e-01
96	PAN120312	45.1647	45.8514	45.5950	1.5851e-01	8.7744e-01
97	PAN130312	39.1948	39.8051	39.4847	1.5259e-01	8.7558e-01
98	PAB000136	55.2582	55.7160	55.4487	1.1303e-01	5.9634e-01
99	PAB100136	38.9196	39.1943	39.0240	5.6285e-02	5.8815e-01
100	PAB125136	34.5682	34.7513	34.6570	4.6619e-02	5.8644e-01

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I	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	54.5461	55.6447	55.0636	2.0716e-01	7.6253e-01
102	PRV0000001	21.1481	21.2702	21.1749	5.1081e-02	7.5187e-01
103	PSR0000001	31.1837	31.3058	31.2081	4.9324e-02	7.5405e-01
104	PFM0000001	103.1659	105.7294	104.2921	6.0256e-01	5.6390e-01
105	PAN000136	589.3187	597.1006	593.2555	1.9066e+00	5.1387e+00
106	PFM0000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0096	9.6655e-04	0.0000e+00
108	EMPTY	-10.0000	-8.4033	-9.7950	3.3224e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0053	1.3381e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0039	1.9730e-03	0.0000e+00
112	VPM0000001	-1.0519	-0.6612	-0.8331	1.0168e-01	8.1002e-01
113	VPM0000002	-0.9812	-0.5906	-0.7859	1.0440e-01	8.1001e-01
114	VPM0000003	-1.0166	-0.6259	-0.7627	1.1334e-01	8.1001e-01
115	VPM0000004	-0.8166	-0.2306	-0.5978	1.1599e-01	8.1001e-01
116	VPM0000005	-1.4872	-0.9013	-1.3270	1.2283e-01	8.1004e-01
117	VPM0000006	-1.5672	-1.1766	-1.4266	1.0470e-01	8.1005e-01
118	IPM0000001	-11.3611	-7.4564	-9.6821	1.1163e+00	8.1004e+00
119	IPM0000002	-14.0585	-8.2047	-10.1169	1.3932e+00	8.1004e+00
120	IPM0000003	-13.6968	-9.7968	-12.6048	1.1254e+00	8.1006e+00
121	IPM0000004	-2.4531	-1.4766	-1.9355	2.4976e-01	2.0001e+00
122	IPM0000005	-4.2058	-3.2294	-3.7371	2.9526e-01	2.0002e+00
123	IPM0000006	-2.9297	-1.4648	-2.3242	3.6326e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0209	3.4229e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.3531e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0187	3.5141e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.2777e-03	0.0000e+00
128	IHT0000001	-0.2494	-0.0541	-0.1830	9.3461e-02	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1519	1.0763e-01	4.1000e+00
130	IHT0000003	-0.5247	-0.1341	-0.2552	1.0358e-01	4.1000e+00
131	IHT0000004	-0.3953	-0.0047	-0.1766	7.5283e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.1081	8.4997e-02	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0200	1.0763e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.0995	7.1136e-02	4.1000e+00
135	IHT0000008	-0.3153	0.0753	-0.1747	9.6976e-02	4.1000e+00
136	IHT0000009	-0.3953	-0.0047	-0.1766	7.5283e-02	4.1000e+00
137	IHT0000010	-0.1600	0.0353	-0.1053	8.8585e-02	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.1034	7.5283e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1722	1.0470e-01	4.1000e+00
140	IHT0000013	-0.1694	0.2212	-0.0444	1.0259e-01	4.1000e+00
141	IHT0000014	-0.3553	0.0353	-0.1366	7.5283e-02	4.1000e+00
142	IHT0000015	-0.2400	-0.0447	-0.1150	9.4702e-02	4.1000e+00
143	IHT0000016	-0.3153	0.0753	-0.1552	8.5454e-02	4.1000e+00
144	IHT0000017	-0.3906	0.3906	-0.0234	1.9587e-01	4.1000e+00
145	IHT0000018	0.2753	0.6659	0.3847	1.0559e-01	4.1000e+00
146	IHT0000019	-0.2353	0.1553	-0.0244	7.7324e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.1034	7.8918e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3256	8.8233e-02	4.1001e+00
149	IHT0000022	-0.3153	-0.1200	-0.1981	9.6655e-02	4.1000e+00
150	IHT0000023	-0.3506	0.0400	-0.1358	7.1136e-02	4.1000e+00
151	IHT0000024	-0.2853	-0.0900	-0.2306	8.8585e-02	4.1000e+00
152	IHT0000025	-0.0047	0.1906	0.0773	9.7377e-02	4.1000e+00
153	IHT0000026	-0.1953	0.0000	-0.0742	9.5765e-02	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	-0.0045	9.4125e-02	4.1000e+00

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I	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0400	0.3506	0.1358	9.0412e-02	4.1000e+00
157	IHT0000030	-0.0800	0.3106	0.1036	7.2866e-02	4.1000e+00
158	IHT0000031	-0.0847	0.3059	0.0794	9.1354e-02	4.1000e+00
159	IHT0000032	0.0000	0.1953	0.0508	8.6541e-02	4.1000e+00
160	IHT0000033	37.3247	37.5200	37.3794	8.8585e-02	4.1170e+00
161	IHT0000034	-0.0800	0.3106	0.0333	1.0507e-01	4.1000e+00
162	IHT0000035	-0.1881	0.3978	0.0931	1.1272e-01	4.1000e+00
163	IHT0000036	-0.2353	0.1553	-0.0244	9.5357e-02	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5493	1.6650e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1423	1.2787e-01	1.9000e+00
2	TFH000001	86.0328	87.2903	86.5233	2.8745e-01	1.9002e+00
3	TIN000001	86.4155	87.5712	86.9411	2.9406e-01	1.9002e+00
4	TRV000001	85.3752	87.5705	86.1786	6.5724e-01	1.9002e+00
5	TSR000001	87.5560	88.6014	88.0285	2.5609e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TA0050136	86.2418	87.0784	86.6939	1.9307e-01	1.9002e+00
8	TA0070136	87.6338	88.4756	88.0295	2.1410e-01	1.9002e+00
9	TA0080136	87.3188	88.1549	87.6783	1.9131e-01	1.9002e+00
10	TA0090136	87.0881	87.9260	87.4986	2.0054e-01	1.9002e+00
11	TA0100136	87.3991	88.1329	87.7178	1.7197e-01	1.9002e+00
12	TA0105136	87.6514	88.4908	87.9872	2.0658e-01	1.9002e+00
13	EMPTY	40.7527	41.2111	41.0599	1.1905e-01	1.9011e+00
14	TA0115136	86.7546	87.8065	87.2683	2.1424e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5466	4.5533e-02	1.9009e+00
16	TA0125136	87.1915	88.1334	87.6016	1.7035e-01	1.9002e+00
17	TA0130136	87.2486	87.8748	87.5488	1.5259e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2799	1.0607e-01	1.9011e+00
19	TA0130048	87.2564	87.9891	87.5703	1.5548e-01	1.9002e+00
20	TA0120224	86.9567	87.7950	87.3132	1.8705e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8938	1.0634e-01	1.9010e+00
22	TA0120312	87.1311	88.1797	87.5338	2.0032e-01	1.9002e+00
23	TA0130312	86.8201	87.6579	87.1845	1.9301e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3485	1.7750e-01	1.9010e+00
25	TRT070000	87.0269	87.7650	87.3442	1.6750e-01	1.9002e+00
26	TWT100000	87.6336	88.3663	87.9976	1.7973e-01	1.9002e+00
27	TWT200000	87.4390	88.2771	87.7407	1.7285e-01	1.9002e+00
28	TWT125000	87.3139	88.1486	87.7810	1.8985e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5552	1.1632e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7020	2.0260e-01	1.9011e+00
31	TAF050136	87.0602	87.8965	87.4951	1.8946e-01	1.9002e+00
32	TAF070136	87.6567	88.5945	88.1696	2.0179e-01	1.9002e+00
33	TAF080136	87.1631	87.8939	87.4758	1.9542e-01	1.9002e+00
34	TAF090136	87.3364	88.3837	87.8854	2.5529e-01	1.9002e+00
35	TAF100136	87.0003	87.9450	87.3196	2.0334e-01	1.9002e+00
36	TAF105136	87.1734	88.1122	87.6110	2.3061e-01	1.9002e+00
37	TAF110136	87.0669	87.7994	87.3806	1.6097e-01	1.9002e+00
38	TAF115136	87.3241	88.4759	87.9314	2.2977e-01	1.9002e+00
39	TAF120136	87.3148	87.8383	87.5532	1.5107e-01	1.9002e+00
40	TAF125136	87.3808	88.2151	87.8104	1.9175e-01	1.9002e+00
41	TAF130136	87.2848	88.1230	87.6117	1.7540e-01	1.9002e+00
42	TAF120048	87.3988	88.5580	87.9474	2.3231e-01	1.9002e+00
43	TAF130048	87.2082	87.7328	87.4097	1.4809e-01	1.9002e+00
44	TAF120224	87.2185	88.1618	87.6378	2.2705e-01	1.9002e+00
45	TAF130224	86.6371	87.3745	87.0752	1.6241e-01	1.9002e+00

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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	50.1515	50.7619	50.5006	1.1830e-01	7.6055e-01
102	PRV000001	21.1481	21.2702	21.1871	5.7521e-02	7.5187e-01
103	PSR000001	30.6954	30.8175	30.8102	2.9284e-02	7.5394e-01
104	PFH000001	88.4259	89.6161	89.0247	2.8307e-01	5.4730e-01
105	PAN000136	483.1175	489.0684	486.7430	1.3171e+00	5.0682e+00
106	PFH000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0090	1.8082e-03	0.0000e+00
108	EMPTY	10.0000	-8.9941	-9.7826	2.9559e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0051	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
112	VPM000001	-1.0519	-0.6612	-0.8722	7.7174e-02	8.1002e-01
113	VPM000002	-0.9812	-0.5906	-0.7430	9.0754e-02	8.1001e-01
114	VPM000003	-1.0166	-0.6259	-0.7705	1.1027e-01	8.1001e-01
115	VPM000004	-0.8166	-0.4259	-0.5861	1.0942e-01	8.1001e-01
116	VPM000005	-1.6825	-1.2919	-1.4052	1.0507e-01	8.1004e-01
117	VPM000006	-1.5672	-1.1766	-1.3797	8.7880e-02	8.1004e-01
118	IPM000001	-11.3611	-7.4564	-9.7602	1.1627e+00	8.1004e+00
119	IPM000002	-12.1072	-6.2534	-10.5852	1.3246e+00	8.1004e+00
120	IPM000003	-15.6468	-9.7968	-12.9558	1.3001e+00	8.1006e+00
121	IPM000004	-2.4531	-1.4766	-1.9355	2.6853e-01	2.0001e+00
122	IPM000005	-4.2058	-2.7411	-3.7078	3.4860e-01	2.0002e+00
123	IPM000006	-2.9297	-1.9531	-2.4219	3.5513e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0208	2.9280e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.5515e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0174	2.6396e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.3728e-03	0.0000e+00
128	IHT000001	-0.2494	-0.0541	-0.1634	9.7935e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1480	9.8648e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2591	1.0259e-01	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1727	7.9017e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1355	9.5112e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0083	9.5112e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0878	6.7888e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1591	7.8918e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1922	5.5243e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.0975	1.0014e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1034	8.4997e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1527	8.5454e-02	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0327	9.8648e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1209	1.0440e-01	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1384	9.8569e-02	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1278	6.7888e-02	4.1000e+00
144	IHT000017	-0.3906	0.5859	-0.0117	2.4135e-01	4.1000e+00
145	IHT000018	0.0800	0.6659	0.3847	1.1272e-01	4.1000e+00
146	IHT000019	-0.2353	0.3506	-0.0322	7.8523e-02	4.1000e+00
147	IHT000020	-0.2988	0.2872	-0.0956	1.0410e-01	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3295	9.4125e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1825	1.0014e-01	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1163	8.8233e-02	4.1000e+00
151	IHT000024	-0.4806	0.1053	-0.2423	9.8963e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0891	9.8569e-02	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0742	1.0358e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0150	1.0320e-01	4.1000e+00

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

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Velocity 1 - 22.0243 (ft/sec) (+/- 3.4867 %)
 Velocity 2 - 13.2409 (ft/sec) (+/- 3.4867 %)
 Pressure drop - 14.2177 (psi)
 Tsat in - 276.8835 (deg F) Tsat out - 255.9640 (deg F)
 Phi inner - 0.0056 (kbtu/hr-ft2) (+/- 118.8403 %)
 Phi outer - 0.0076 (kbtu/hr-ft2) (+/- 121.8712 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.0330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5111	1.5003e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1465	1.4480e-01	1.9000e+00
2	TIN000001	86.5559	87.3944	86.9336	1.8939e-01	1.9002e+00
3	TIN000001	86.8362	87.6761	87.2563	1.6703e-01	1.9002e+00
4	TRV000001	86.9429	87.6751	87.3070	1.8687e-01	1.9002e+00
5	TSR000001	87.7647	88.2882	88.0033	1.5099e-01	1.9002e+00
6	EMPTY	601.0594	601.0594	601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.2418	86.9747	86.5434	1.6054e-01	1.9002e+00
8	TAO070136	87.4240	88.4756	87.9538	2.0474e-01	1.9002e+00
9	TAO080136	87.2136	87.8420	87.5281	1.6230e-01	1.9002e+00
10	TAO090136	86.7736	87.8209	87.3521	2.1395e-01	1.9002e+00
11	TAO100136	87.1893	87.8189	87.5586	1.5883e-01	1.9002e+00
12	TAO105136	87.4415	88.2806	87.8025	1.8248e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0920	1.1567e-01	1.9011e+00
14	TAO115136	86.6492	87.3856	87.0536	1.8570e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5743	8.5185e-02	1.9010e+00
16	TAO125136	87.0868	87.7154	87.3925	1.6371e-01	1.9002e+00
17	TAO130136	86.9369	87.7697	87.3254	1.8326e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2707	1.0152e-01	1.9011e+00
19	TAO130048	87.0465	87.6756	87.3738	1.5637e-01	1.9002e+00
20	TAO120224	86.7467	87.3765	87.0700	1.5976e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8892	1.3642e-01	1.9010e+00
22	TAO120312	86.9213	87.6553	87.3282	1.6502e-01	1.9002e+00
23	TAO130312	86.7149	87.3438	87.0088	1.4967e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3393	1.6309e-01	1.9010e+00
25	TWT070000	86.8178	87.4506	87.2049	1.7719e-01	1.9002e+00
26	TWT100000	87.4251	88.2612	87.8136	1.9151e-01	1.9002e+00
27	TWT120000	87.1244	87.8585	87.5606	1.5472e-01	1.9002e+00
28	TWT125000	87.1041	87.9405	87.5643	1.9773e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5781	9.9904e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6883	2.2122e-01	1.9011e+00
31	TAF050136	87.1644	87.8965	87.5159	1.6472e-01	1.9002e+00
32	TAF070136	87.6567	88.5960	88.1611	1.9594e-01	1.9002e+00
33	TAF080136	87.1612	87.7892	87.4964	1.5509e-01	1.9002e+00
34	TAF090136	87.2313	88.2790	87.7973	2.3278e-01	1.9002e+00
35	TAF100136	87.0003	87.6305	87.3531	1.9406e-01	1.9002e+00
36	TAF105136	87.0687	88.0076	87.5983	2.4536e-01	1.9002e+00
37	TAF110136	87.0658	87.6947	87.3387	1.3875e-01	1.9002e+00
38	TAF115136	87.5339	88.2668	87.8769	1.7060e-01	1.9002e+00
39	TAF120136	87.2101	87.7336	87.5197	1.4338e-01	1.9002e+00
40	TAF125136	87.3808	88.1121	87.7478	1.7939e-01	1.9002e+00
41	TAF130136	87.1796	87.8091	87.5614	1.5954e-01	1.9002e+00
42	TAF120048	87.3993	88.3483	87.8885	1.9707e-01	1.9002e+00
43	TAF130048	86.9983	87.6281	87.3635	1.3610e-01	1.9002e+00
44	TAF120224	87.0086	88.0567	87.5832	2.2922e-01	1.9002e+00
45	TAF130224	86.6376	87.2689	87.0457	1.5847e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1308	2.1831e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1740	8.8515e-02	1.9010e+00
48	TAI130048	87.1951	88.3481	87.7358	2.4911e-01	1.9002e+00
49	TAI130136	86.6133	87.4511	87.1197	1.9304e-01	1.9002e+00
50	TAI130224	87.1637	88.3187	87.7014	2.8126e-01	1.9002e+00
51	TAI130312	86.7755	87.4058	87.1115	1.8969e-01	1.9002e+00
52	TRR130000	86.3395	87.4907	86.9257	2.2480e-01	1.9002e+00
53	TSI000001	79.7239	80.3565	80.0274	1.5006e-01	1.9001e+00
54	TSI000002	70.5115	71.3607	70.9871	2.3416e-01	1.9000e+00
55	TSO000001	67.2332	68.1951	67.6650	2.2241e-01	1.9000e+00
56	TSO000002	79.7901	80.6343	80.1826	2.1002e-01	1.9001e+00
57	TAF020136	86.6660	87.5081	87.0535	1.8844e-01	1.9002e+00
58	TAF120312	74.4271	75.4869	75.1476	2.8064e-01	1.9000e+00
59	TAF130312	86.5105	87.3498	86.9135	1.6593e-01	1.9002e+00
60	EMPTY	0.4785	0.4883	0.4818	2.8659e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4964	2.3365e-03	0.0000e+00
62	EMPTY	0.5029	0.5127	0.5104	2.6543e-03	0.0000e+00
63	EMPTY	0.5225	0.5322	0.5266	2.2839e-03	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3362	1.7115e-03	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3562	9.6655e-04	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3731	2.4344e-03	0.0000e+00
67	EMPTY	0.3857	0.3955	0.3904	1.3811e-03	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4051	9.6655e-04	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4229	2.4164e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4391	1.3381e-03	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4630	1.8950e-03	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4770	2.3008e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4951	2.4164e-03	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5122	1.4797e-03	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5282	1.8950e-03	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5424	1.3381e-03	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5621	1.6028e-03	0.0000e+00
78	EMPTY	0.5859	0.5908	0.5860	6.9053e-04	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6080	2.4642e-03	0.0000e+00
80	PAN020136	45.6503	48.8546	47.1792	7.1337e-01	8.7796e-01
81	PAN050136	91.8923	93.4181	92.5454	3.8999e-01	1.6959e+00
82	PAN070136	67.3033	68.5240	68.0113	3.0245e-01	8.8646e-01
83	PAN080136	29.0124	30.1568	29.5358	2.4225e-01	8.7711e-01
84	PAN090136	28.7924	29.5553	29.2425	1.5577e-01	8.7307e-01
85	PAN100136	30.7334	31.5727	31.2827	1.7095e-01	8.7351e-01
86	PAN105136	20.5268	21.2135	20.8228	1.6647e-01	8.7156e-01
87	PAN110136	18.1500	18.5315	18.3484	1.0790e-01	8.7121e-01
88	PAN115136	16.5904	17.5059	17.0878	2.0978e-01	8.7105e-01
89	PAN120136	11.9849	12.5189	12.2306	1.1869e-01	8.7054e-01
90	PAN125136	12.1300	12.9693	12.4856	1.6857e-01	8.7056e-01
91	PAN130136	12.2519	12.8622	12.5113	1.6018e-01	8.7056e-01
92	PAN120048	28.1952	28.8056	28.5431	1.4224e-01	8.7292e-01
93	PAN130048	26.7074	26.9729	26.9729	1.4642e-01	8.7261e-01
94	PAN120224	29.8853	30.5720	30.2515	1.6018e-01	8.7328e-01
95	PAN130224	26.3509	27.0376	26.6988	1.3363e-01	8.7256e-01
96	PAN120312	29.6008	30.5163	29.9929	1.7777e-01	8.7323e-01
97	PAN130312	25.4619	26.1485	25.8662	1.2827e-01	8.7240e-01
98	PAB000136	46.6065	47.0185	46.8372	8.8687e-02	5.9170e-01
99	PAB100136	35.8068	35.9899	35.8755	4.3624e-02	5.8689e-01
100	PAB125136	32.9202	33.0575	32.9761	3.8455e-02	5.8583e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	46.2453	46.6115	46.4210	1.2370e-01	7.5893e-01
102	PRV000001	21.2702	21.3922	21.2750	2.4164e-02	7.5188e-01
103	PSR000001	30.4513	30.5734	30.5172	6.1457e-02	7.5387e-01
104	PFH000001	75.0592	76.7072	75.7258	4.2221e-01	5.3464e-01
105	PAN000136	390.6492	397.0579	393.6247	1.4746e+00	5.0174e+00
106	PFH000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0082	2.3008e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8379	-9.6305	3.7059e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0016	2.3008e-03	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8136	1.0654e-01	8.1001e-01
113	VPW000002	-0.9812	-0.5906	-0.7938	6.7888e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7627	1.1334e-01	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.5783	1.0654e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3387	1.0106e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.4148	1.1361e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.6040	1.1329e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-9.8828	1.0437e+00	8.1004e+00
120	IPW000003	-15.6468	-9.7968	-12.7218	1.3214e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9258	2.3839e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6492	3.1208e-01	2.0002e+00
123	IPW000006	-2.9297	-1.9531	-2.3047	3.1257e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0210	3.3087e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.8744e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0182	3.5623e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.3829e-03	0.0000e+00
128	IHT000001	-0.4447	0.1412	-0.1673	1.1223e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1206	1.0705e-01	4.1000e+00
130	IHT000003	-0.3294	0.0613	-0.2513	1.1161e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1238	8.8233e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0005	1.2027e-01	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.1073	6.8459e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1687	7.2330e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.0975	9.2034e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.0956	7.7324e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1761	1.0625e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0366	9.2034e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1131	9.3043e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1150	9.4702e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1356	5.3525e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	0.0078	2.8716e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.4198	9.5112e-02	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0283	6.1257e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1269	8.4997e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3452	7.1136e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1280	6.8459e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2189	9.3461e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.1047	1.0559e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0625	1.0014e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1484	8.4262e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0072	1.1599e-01	4.1000e+00

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

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.1838	74.8213	74.5238	1.5480e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.1169	1.3749e-01	1.9000e+00
2	TFH0000001	85.8233	87.0804	86.4395	3.0425e-01	1.9002e+00
3	TIN0000001	86.3108	87.1513	86.7057	2.5783e-01	1.9002e+00
4	TRV0000001	85.2703	86.3169	85.7939	2.5726e-01	1.9002e+00
5	TSR0000001	87.1385	87.7658	87.4690	1.5726e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	85.8239	86.9743	86.3679	2.7464e-01	1.9002e+00
8	TAO070136	87.1078	88.4756	87.7391	2.7629e-01	1.9002e+00
9	TAO080136	86.9019	88.0503	87.3656	2.3309e-01	1.9002e+00
10	TAO090136	86.6695	87.8209	87.1931	2.6242e-01	1.9002e+00
11	TAO100136	86.9796	87.9232	87.3575	2.5048e-01	1.9002e+00
12	TAO105136	87.2317	88.2811	87.7229	2.7833e-01	1.9002e+00
13	EMPTY	40.7527	41.2111	41.0553	1.1751e-01	1.9011e+00
14	TAO115136	86.4392	87.5961	86.9905	3.0988e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5559	6.3038e-02	1.9009e+00
16	TAO125136	86.7724	87.8198	87.2712	2.4061e-01	1.9002e+00
17	TAO130136	86.7302	87.7701	87.2509	2.5739e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2295	9.0719e-02	1.9011e+00
19	TAO130048	86.7337	87.8840	87.2233	2.7012e-01	1.9002e+00
20	TAO120224	86.5371	87.5860	86.9359	2.4789e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8754	1.2871e-01	1.9010e+00
22	TAO120312	86.6063	87.7603	87.1437	2.6691e-01	1.9002e+00
23	TAO130312	86.4018	87.3443	86.8290	2.4913e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3164	1.5942e-01	1.9010e+00
25	TWT070000	86.6052	87.6604	87.0318	2.6781e-01	1.9002e+00
26	TWT100000	87.1108	88.3655	87.6674	2.8460e-01	1.9002e+00
27	TWT120000	86.9149	87.8581	87.3512	2.4070e-01	1.9002e+00
28	TWT125000	87.0010	88.1486	87.4519	2.7983e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5552	1.0668e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7204	1.8108e-01	1.9011e+00
31	TAF050136	86.7465	87.7919	87.2569	2.6183e-01	1.9002e+00
32	TAF070136	87.3437	88.4914	87.9445	2.8382e-01	1.9002e+00
33	TAF080136	86.7451	87.7892	87.2052	2.9307e-01	1.9002e+00
34	TAF090136	86.9174	88.3837	87.6172	3.5366e-01	1.9002e+00
35	TAF100136	86.5804	87.6300	87.0676	2.6296e-01	1.9002e+00
36	TAF105136	86.7555	87.9025	87.3695	2.7414e-01	1.9002e+00
37	TAF110136	86.5444	87.7983	87.1007	2.9365e-01	1.9002e+00
38	TAF115136	87.2194	88.2662	87.6593	3.0209e-01	1.9002e+00
39	TAF120136	86.8964	87.7336	87.2694	2.3231e-01	1.9002e+00
40	TAF125136	87.0678	88.2156	87.5271	2.4311e-01	1.9002e+00
41	TAF130136	86.9702	87.8091	87.3353	2.3872e-01	1.9002e+00
42	TAF120048	87.0829	88.3483	87.6774	3.0414e-01	1.9002e+00
43	TAF130048	86.7885	87.6281	87.1455	2.4616e-01	1.9002e+00
44	TAF120224	86.6947	87.9521	87.3193	3.0892e-01	1.9002e+00
45	TAF130224	86.4252	87.2689	86.7969	2.3909e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0572	1.9604e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1465	8.0364e-02	1.9010e+00
48	TAI130048	86.8802	88.1384	87.5807	2.9763e-01	1.9002e+00
49	TAI130136	86.5081	87.6590	86.9441	2.6665e-01	1.9002e+00
50	TAI130224	86.7431	88.2141	87.5123	3.7825e-01	1.9002e+00
51	TAI130312	86.2505	87.5106	86.9100	3.0078e-01	1.9002e+00
52	TRI130000	86.1303	87.3860	86.7668	2.9048e-01	1.9002e+00
53	TSI0000001	79.6180	80.2513	79.9305	1.4282e-01	1.9001e+00
54	TSI0000002	70.5115	71.5728	71.1144	2.6471e-01	1.9000e+00
55	TSO0000001	67.4465	68.3030	67.8279	1.8486e-01	1.9000e+00
56	TSO0000002	79.7901	80.5290	80.2417	1.7455e-01	1.9001e+00
57	TAF020136	86.3486	87.4029	86.7832	2.7751e-01	1.9002e+00
58	TAF120312	74.5334	75.6981	75.1561	2.6259e-01	1.9000e+00
59	TAF130312	86.0914	87.1399	86.5531	2.4327e-01	1.9002e+00
60	EMPTY	0.4688	0.4834	0.4749	5.3860e-03	0.0000e+00
61	EMPTY	0.4834	0.4980	0.4898	5.5313e-03	0.0000e+00
62	EMPTY	0.4980	0.5127	0.5032	5.6160e-03	0.0000e+00
63	EMPTY	0.5127	0.5273	0.5202	4.5432e-03	0.0000e+00
64	EMPTY	0.3271	0.3369	0.3315	2.8334e-03	0.0000e+00
65	EMPTY	0.3467	0.3564	0.3525	2.6100e-03	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3676	2.2146e-03	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3869	2.1065e-03	0.0000e+00
68	EMPTY	0.3955	0.4053	0.4001	2.0716e-03	0.0000e+00
69	EMPTY	0.4150	0.4248	0.4172	2.8179e-03	0.0000e+00
70	EMPTY	0.4297	0.4395	0.4349	1.8216e-03	0.0000e+00
71	EMPTY	0.4541	0.4639	0.4573	2.8946e-03	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4710	2.4583e-03	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4903	2.4344e-03	0.0000e+00
74	EMPTY	0.5029	0.5127	0.5068	2.9594e-03	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5241	2.3365e-03	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5387	2.3008e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5582	2.3008e-03	0.0000e+00
78	EMPTY	0.5811	0.5859	0.5824	2.2146e-03	0.0000e+00
79	EMPTY	0.6006	0.6104	0.6043	2.7124e-03	0.0000e+00
80	PAN020136	34.2825	37.7157	35.8068	8.3711e-01	8.7459e-01
81	PAN050136	68.2411	70.3774	69.3520	4.3163e-01	1.6889e+00
82	PAN070136	50.0609	51.9682	51.1366	4.3576e-01	8.7934e-01
83	PAN080136	21.3830	22.4511	21.9903	2.3425e-01	8.7174e-01
84	PAN090136	20.7052	21.6970	21.1065	2.4653e-01	8.7160e-01
85	PAN100136	23.8670	24.7825	24.4407	2.0520e-01	8.7214e-01
86	PAN105136	15.5677	16.2543	15.8622	1.6386e-01	8.7090e-01
87	PAN110136	13.6487	14.0301	13.8318	8.9877e-02	8.7069e-01
88	PAN115136	12.9283	13.9201	13.4868	2.2624e-01	8.7065e-01
89	PAN120136	8.5517	9.2383	8.8462	1.5644e-01	8.7028e-01
90	PAN125136	8.8494	9.6886	9.2187	1.6483e-01	8.7031e-01
91	PAN130136	9.2764	9.8104	9.5343	1.4118e-01	8.7033e-01
92	PAN120048	20.7947	21.5577	21.2830	1.5869e-01	8.7163e-01
93	PAN130048	19.8410	20.8328	20.4224	1.6521e-01	8.7150e-01
94	PAN120224	22.2559	23.1715	22.8617	1.6914e-01	8.7188e-01
95	PAN130224	19.8660	20.4763	20.0964	1.5528e-01	8.7145e-01
96	PAN120312	22.2002	23.0395	22.7541	1.8160e-01	8.7186e-01
97	PAN130312	19.2057	19.7398	19.4499	1.3872e-01	8.7136e-01
98	PAB000136	42.4866	43.0359	42.8382	1.2180e-01	5.8980e-01
99	PAB100136	34.3878	34.6624	34.5443	5.9282e-02	5.8639e-01
100	PAB125136	32.2336	32.4625	32.3599	5.1125e-02	5.8561e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	42.0949	42.9494	42.5050	1.9693e-01	7.5749e-01
102	PRV000001	21.0260	21.1481	21.1456	1.7263e-02	7.5186e-01
103	PSR000001	30.3292	30.4513	30.3878	6.1605e-02	7.5384e-01
104	PFH000001	60.8686	62.5165	61.6266	3.2673e-01	5.2320e-01
105	PAN001136	293.1456	301.3853	296.8901	2.0776e+00	4.9757e+00
106	PFH000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0068	2.4164e-03	0.0000e+00
108	EMPTY	-10.0000	-8.7695	-9.6634	3.9106e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0006	1.6028e-03	0.0000e+00
112	VFW000001	-1.0519	-0.6612	-0.8644	9.6332e-02	8.1002e-01
113	VFW000002	-0.9812	-0.5906	-0.7703	7.7324e-02	8.1001e-01
114	VFW000003	-1.0166	-0.6259	-0.7705	1.0297e-01	8.1001e-01
115	VFW000004	-0.8166	-0.4259	-0.5978	1.0168e-01	8.1001e-01
116	VFW000005	-1.4872	-1.0966	-1.3153	1.0168e-01	8.1004e-01
117	VFW000006	-1.5672	-1.1766	-1.4109	1.0440e-01	8.1004e-01
118	IPW000001	-11.3611	-7.4564	-9.7211	1.3294e+00	8.1004e+00
119	IPW000002	-12.1072	-8.2047	-10.2730	1.2719e+00	8.1004e+00
120	IPW000003	-15.6468	-11.7468	-12.7218	1.1316e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.9258	2.5800e-01	2.0001e+00
122	IPW000005	-4.2058	-3.2294	-3.6199	2.9591e-01	2.0002e+00
123	IPW000006	-2.9297	-1.9531	-2.3242	3.0501e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0206	3.7291e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0144	2.6853e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0178	2.7480e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.2133e-03	0.0000e+00
128	IHT000001	-0.2494	0.0541	-0.1752	9.5765e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1441	1.0470e-01	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2630	9.3461e-02	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1727	7.9017e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1120	7.9017e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0317	1.0358e-01	4.1000e+00
134	IHT000007	-0.2753	-0.0800	-0.1269	8.4262e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1825	9.2034e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1961	4.8166e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.0975	9.2034e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1073	8.8321e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1409	9.3710e-02	4.1000e+00
140	IHT000013	-0.3647	0.2212	-0.0287	1.0470e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1209	8.8233e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1345	9.8332e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1473	6.8459e-02	4.1000e+00
144	IHT000017	-0.3906	0.3906	-0.0391	1.8508e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3886	1.1223e-01	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0205	5.9189e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0839	7.1136e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3373	8.8321e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.2059	9.7935e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1241	7.2330e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2306	8.8585e-02	4.1000e+00
152	IHT000025	-0.2000	0.3859	0.0969	1.1327e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0664	1.0145e-01	4.1000e+00
154	IHT000027	-0.1953	0.1953	-0.1328	1.0014e-01	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0150	7.7324e-02	4.1000e+00

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

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Velocity 1 - 18.0143 (ft/sec) (+/- 3.5061 %)
 Velocity 2 - 13.2405 (ft/sec) (+/- 3.4867 %)
 Pressure drop - 7.9671 (psi)
 Tsat in - 266.8551 (deg F) Tsat out - 253.8784 (deg F)
 Phi inner - 0.0056 (kBtu/hr-ft2) (+/- 118.5344 %)
 Phi outer - 0.0077 (kBtu/hr-ft2) (+/- 121.7513 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.1838	74.8213	74.5153	1.6156e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.1381	1.3782e-01	1.9000e+00
2	TRF0000001	86.1376	86.9763	86.5379	1.9941e-01	1.9002e+00
3	TRF0000001	86.3103	86.9411	86.6405	1.6026e-01	1.9002e+00
4	TRV0000001	85.7935	86.9448	86.3521	2.2647e-01	1.9002e+00
5	TSR0000001	86.8255	87.5581	87.1955	1.6954e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	85.8239	86.5570	86.1820	1.7836e-01	1.9002e+00
8	TAO070136	87.1078	87.9487	87.5727	2.0271e-01	1.9002e+00
9	TAO080136	86.9019	87.5301	87.1926	1.5288e-01	1.9002e+00
10	TAO090136	86.6690	87.4031	86.9984	1.6539e-01	1.9002e+00
11	TAO100136	86.8749	87.5046	87.2213	1.2225e-01	1.9002e+00
12	TAO105136	87.1270	87.9662	87.5529	1.7910e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0690	1.1238e-01	1.9011e+00
14	TAO115136	86.3333	87.2802	86.7272	2.1657e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5420	3.2531e-02	1.9009e+00
16	TAO125136	86.8772	87.2974	87.0350	1.3275e-01	1.9002e+00
17	TAO130136	86.8350	87.3571	87.0341	1.5090e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2661	1.0916e-01	1.9011e+00
19	TAO130048	86.7332	87.3625	87.0164	1.6831e-01	1.9002e+00
20	TAO120224	86.4322	87.0622	86.7368	1.6040e-01	1.9002e+00
21	EMPTY	38.6870	38.9168	38.8846	8.0529e-02	1.9010e+00
22	TAO120312	86.7110	87.3410	86.9486	1.5263e-01	1.9002e+00
23	TAO130312	86.1926	86.9256	86.5801	1.4867e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3302	2.0221e-01	1.9010e+00
25	TWT070000	86.5000	87.2381	86.8142	1.9207e-01	1.9002e+00
26	TWT100000	87.1103	87.9485	87.4354	1.9978e-01	1.9002e+00
27	TWT120000	86.8101	87.6492	87.1648	1.5554e-01	1.9002e+00
28	TWT125000	86.8974	87.6289	87.2583	1.7681e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5827	1.0627e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7617	1.9364e-01	1.9011e+00
31	TAF050136	86.9550	87.5840	87.1754	1.6000e-01	1.9002e+00
32	TAF070136	87.3437	88.1797	87.8300	2.2172e-01	1.9002e+00
33	TAF080136	86.8503	87.4781	87.1367	1.6331e-01	1.9002e+00
34	TAF090136	86.9174	88.1748	87.5481	3.0044e-01	1.9002e+00
35	TAF100136	86.6851	87.3154	86.9647	1.6511e-01	1.9002e+00
36	TAF105136	86.8602	87.6964	87.1928	1.9372e-01	1.9002e+00
37	TAF110136	86.7528	87.4860	87.0151	1.8347e-01	1.9002e+00
38	TAF115136	87.0101	87.8484	87.5460	1.6033e-01	1.9002e+00
39	TAF120136	87.0011	87.4213	87.1588	1.2227e-01	1.9002e+00
40	TAF125136	87.0673	87.6957	87.4042	1.6131e-01	1.9002e+00
41	TAF130136	86.9706	87.4950	87.2285	1.2758e-01	1.9002e+00
42	TAF120048	87.0829	88.0313	87.5232	2.4145e-01	1.9002e+00
43	TAF130048	86.6835	87.3135	86.9966	1.5508e-01	1.9002e+00
44	TAF120224	86.9043	87.6383	87.2334	1.7080e-01	1.9002e+00
45	TAF130224	86.3209	86.9518	86.6724	1.3194e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	37.9974	1.7381e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1373	6.4961e-02	1.9010e+00
48	TAI130048	86.6699	87.0243	87.2850	3.0342e-01	1.9002e+00
49	TAI130136	86.1951	87.1374	86.7372	2.1220e-01	1.9002e+00
50	TAI130224	86.8479	88.0036	87.3924	2.9162e-01	1.9002e+00
51	TAI130312	86.3553	87.1954	86.8071	1.8158e-01	1.9002e+00
52	TBI130000	86.3395	87.0726	86.6810	1.7667e-01	1.9002e+00
53	TSI0000001	79.7234	80.5670	79.9621	1.9026e-01	1.9001e+00
54	TSI0000002	70.7237	71.5733	71.1462	2.1172e-01	1.9000e+00
55	TSO0000001	67.3401	68.1962	67.7185	2.1841e-01	1.9000e+00
56	TSO0000002	79.7896	80.4233	80.1172	1.5852e-01	1.9001e+00
57	TAP020136	86.4542	87.0871	86.7346	1.6833e-01	1.9002e+00
58	TAP120312	74.7452	75.5926	75.1413	2.5655e-01	1.9000e+00
59	TAP130312	86.1962	86.8261	86.4337	1.1116e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4704	2.3365e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4847	2.1635e-03	0.0000e+00
62	EMPTY	0.4932	0.5029	0.4983	1.5314e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5154	2.4484e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3282	2.0432e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3492	2.4642e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3661	6.9053e-04	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3846	2.1065e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3963	1.8082e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9053e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4303	1.6028e-03	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
75	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5565	6.9053e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5803	1.8082e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6007	6.9053e-04	0.0000e+00
80	PAN020136	24.8220	28.4841	26.3281	9.3869e-01	8.7249e-01
81	PAN050136	51.1513	52.9823	51.9509	4.5783e-01	1.6850e+00
82	PAN070136	36.3279	38.6168	37.4464	5.3096e-01	8.7502e-01
83	PAN080136	15.8135	16.7291	16.2774	2.5460e-01	8.7095e-01
84	PAN090136	16.2039	16.9668	16.6677	1.8868e-01	8.7100e-01
85	PAN100136	16.6954	17.5346	17.0799	1.8875e-01	8.7105e-01
86	PAN105136	11.4478	12.1345	11.7927	1.7859e-01	8.7050e-01
87	PAN110136	10.0629	10.5969	10.3741	1.1621e-01	8.7039e-01
88	PAN115136	10.4106	11.0972	10.7356	1.5780e-01	8.7041e-01
89	PAN120136	5.8051	6.5680	6.1927	1.6154e-01	8.7014e-01
90	PAN125136	7.0183	7.5524	7.2411	1.4029e-01	8.7019e-01
91	PAN130136	6.3009	6.8350	6.5786	1.3937e-01	8.7016e-01
92	PAN120048	15.4541	16.1408	15.7425	1.8257e-01	8.7089e-01
93	PAN130048	14.9582	15.6448	15.3580	1.6280e-01	8.7085e-01
94	PAN120224	16.6865	17.4494	17.1381	1.6518e-01	8.7105e-01
95	PAN130224	14.6017	15.3646	15.0060	1.9512e-01	8.7081e-01
96	PAN120312	16.9360	17.6226	17.3327	2.0851e-01	8.7108e-01
97	PAN130312	14.2466	14.8570	14.5701	1.4668e-01	8.7076e-01
98	PAN000136	39.4654	39.9232	39.6567	1.2500e-01	5.8841e-01
99	PAN100136	33.3807	33.5638	33.4668	4.9493e-02	5.8600e-01
100	PAN125136	31.7300	31.9131	31.8207	4.6692e-02	5.8543e-01

#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	38.9211	39.7755	39.3361	1.9575e-01	7.5642e-01
102	PRV0000001	20.6598	20.7819	20.7257	6.1457e-02	7.5179e-01
103	PSR0000001	30.2072	30.3292	30.2267	4.5206e-02	7.5380e-01
104	PFM0000001	49.5160	51.1640	50.5689	4.3545e-01	5.1573e-01
105	PAN000136	214.8680	226.7698	220.5717	2.5683e+00	4.9508e+00
106	PFM0000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0059	1.9730e-03	0.0000e+00
108	EMPTY	-10.0000	-8.6621	-9.6152	3.6644e-01	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	9.8648e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
112	VPM0000001	-1.0519	-0.6612	-0.8253	9.1354e-02	8.1002e-01
113	VPM0000002	-0.9812	-0.5906	-0.7742	7.2866e-02	8.1001e-01
114	VPM0000003	-1.0166	-0.6259	-0.7783	9.8963e-02	8.1001e-01
115	VPM0000004	-0.8166	-0.4259	-0.5822	1.1161e-01	8.1001e-01
116	VPM0000005	-1.4872	-1.0966	-1.3427	1.1712e-01	8.1004e-01
117	VPM0000006	-1.5672	-1.1766	-1.3914	1.2633e-01	8.1004e-01
118	IPM0000001	-11.3611	-7.4564	-9.6821	1.3088e+00	8.1004e+00
119	IPM0000002	-12.1072	-6.2534	-10.3121	1.5690e+00	8.1004e+00
120	IPM0000003	-15.6468	-9.7968	-12.8778	1.2514e+00	8.1006e+00
121	IPM0000004	-2.4531	-1.4766	-1.9746	2.5131e-01	2.0001e+00
122	IPM0000005	-4.2058	-3.2294	-3.5614	3.0306e-01	2.0002e+00
123	IPM0000006	-2.9297	-1.4648	-2.1875	3.4513e-01	2.0001e+00
124	EMPTY	-0.0244	-0.0146	-0.0214	3.6765e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.6762e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0186	2.9594e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0152	3.3656e-03	0.0000e+00
128	INT0000001	-0.2494	0.1412	-0.1517	1.0625e-01	4.1000e+00
129	INT0000002	-0.2847	0.1059	-0.1323	9.8963e-02	4.1000e+00
130	INT0000003	-0.3294	-0.1341	-0.2278	9.8569e-02	4.1000e+00
131	INT0000004	-0.2000	-0.0047	-0.1336	9.3461e-02	4.1000e+00
132	INT0000005	-0.2800	0.1106	-0.1159	8.2393e-02	4.1000e+00
133	INT0000006	-0.1528	0.0425	-0.0044	8.4262e-02	4.1000e+00
134	INT0000007	-0.2753	-0.0800	-0.0995	5.9189e-02	4.1000e+00
135	INT0000008	-0.3153	-0.1200	-0.1708	8.6541e-02	4.1000e+00
136	INT0000009	-0.2000	-0.0047	-0.1687	7.2330e-02	4.1000e+00
137	INT0000010	-0.3553	0.2306	-0.0858	1.1084e-01	4.1000e+00
138	INT0000011	-0.2753	0.1153	-0.1034	7.5283e-02	4.1000e+00
139	INT0000012	-0.3128	0.0778	-0.1448	9.6735e-02	4.1000e+00
140	INT0000013	-0.1694	0.2212	-0.0092	1.0206e-01	4.1000e+00
141	INT0000014	-0.3553	0.0353	-0.1248	8.5454e-02	4.1000e+00
142	INT0000015	-0.2400	-0.0447	-0.1580	9.7377e-02	4.1000e+00
143	INT0000016	-0.3153	-0.1200	-0.1473	6.8459e-02	4.1000e+00
144	INT0000017	-0.3906	0.3906	-0.0391	2.3008e-01	4.1000e+00
145	INT0000018	0.2753	0.4706	0.3847	9.7935e-02	4.1000e+00
146	INT0000019	-0.2353	0.1553	-0.0244	7.7324e-02	4.1000e+00
147	INT0000020	-0.2988	0.0919	-0.0878	6.6498e-02	4.1000e+00
148	INT0000021	3.1694	3.5600	3.3373	8.8321e-02	4.1001e+00
149	INT0000022	-0.3153	0.0753	-0.1786	1.1334e-01	4.1000e+00
150	INT0000023	-0.1553	0.0400	-0.1280	6.8459e-02	4.1000e+00
151	INT0000024	-0.2853	-0.0900	-0.2150	9.4702e-02	4.1000e+00
152	INT0000025	-0.2000	0.3859	0.0969	1.1995e-01	4.1000e+00
153	INT0000026	-0.1953	0.1953	-0.0508	9.5112e-02	4.1000e+00
154	INT0000027	-0.1953	0.0000	-0.1289	9.3461e-02	4.1000e+00
155	INT0000028	-0.1647	0.2259	0.0111	1.0625e-01	4.1000e+00

#	Name	Min	Max	Ave	SD	Uncert
156	INT0000029	-0.0400	0.3506	0.1475	1.0410e-01	4.1000e+00
157	INT0000030	-0.0000	0.3106	0.1153	7.8918e-02	4.1000e+00
158	INT0000031	-0.0847	0.3059	0.1106	1.0440e-01	4.1000e+00
159	INT0000032	0.0000	0.3906	0.0742	1.0358e-01	4.1000e+00
160	INT0000033	37.1294	37.5200	37.3950	1.0259e-01	4.1170e+00
161	INT0000034	-0.0000	0.3106	0.0489	1.0145e-01	4.1000e+00
162	INT0000035	0.0072	0.3978	0.1166	1.0559e-01	4.1000e+00
163	INT0000036	-0.2353	0.3506	0.0069	1.0106e-01	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRP000001	74.1838	74.8213	74.5791	1.6633e-01	1.9000e+00
1	TRP000002	74.9393	75.3622	75.1846	9.8891e-02	1.9000e+00
2	TRH000001	86.5565	87.3944	86.9736	1.8992e-01	1.9002e+00
3	TIN000001	86.8360	87.5709	87.1827	1.9009e-01	1.9002e+00
4	TRV000001	86.2117	87.4663	86.8247	2.7856e-01	1.9002e+00
5	TSR000001	87.0343	87.8709	87.3754	2.1411e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TRO050136	86.2413	86.9747	86.6042	1.7837e-01	1.9002e+00
8	TRO070136	87.5291	88.3705	88.0062	1.9143e-01	1.9002e+00
9	TRO080136	87.2151	87.9467	87.5809	1.4343e-01	1.9002e+00
10	TRO090136	87.0876	87.9260	87.4548	1.8959e-01	1.9002e+00
11	TRO100136	87.3991	87.9235	87.6613	1.4715e-01	1.9002e+00
12	TRO105136	87.6514	88.2811	87.9305	1.8430e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0645	1.1113e-01	1.9011e+00
14	TRO115136	86.7546	87.7012	87.1903	2.2893e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5466	4.5533e-02	1.9009e+00
16	TRO125136	87.1915	87.8198	87.4701	1.4296e-01	1.9002e+00
17	TRO130136	87.1468	87.8748	87.4770	1.5956e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2661	1.0916e-01	1.9011e+00
19	TRO130048	87.1517	87.7803	87.4639	1.3120e-01	1.9002e+00
20	TRO120224	86.8515	87.6907	87.1519	1.4679e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8800	9.6916e-02	1.9010e+00
22	TRO120312	87.1306	87.6558	87.4017	1.4697e-01	1.9002e+00
23	TRO130312	86.6110	87.2399	87.0362	1.1683e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3577	1.9594e-01	1.9010e+00
25	TRT070000	86.9230	87.6599	87.2828	1.7034e-01	1.9002e+00
26	TRT100000	87.6336	88.2617	87.9330	1.8430e-01	1.9002e+00
27	TRT120000	87.3342	87.9632	87.6215	1.3660e-01	1.9002e+00
28	TRT125000	87.3139	87.9405	87.6709	1.6625e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5644	1.0044e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6929	2.0681e-01	1.9011e+00
31	TAP050136	87.2690	88.0016	87.6310	1.4836e-01	1.9002e+00
32	TAP070136	87.8649	88.6995	88.2385	1.8147e-01	1.9002e+00
33	TAP080136	87.2664	87.8939	87.5655	1.5790e-01	1.9002e+00
34	TAP090136	87.4411	88.4147	87.9461	2.4832e-01	1.9002e+00
35	TAP100136	87.1050	87.7151	87.3720	1.6863e-01	1.9002e+00
36	TAP105136	87.1734	88.0076	87.6009	2.3070e-01	1.9002e+00
37	TAP110136	87.2757	87.6943	87.4079	1.1350e-01	1.9002e+00
38	TAP115136	87.5334	88.2668	87.9586	1.8733e-01	1.9002e+00
39	TAP120136	87.2097	87.8383	87.6222	1.2061e-01	1.9002e+00
40	TAP125136	87.5890	88.1121	87.8169	1.3303e-01	1.9002e+00
41	TAP130136	87.3895	88.0179	87.6348	1.3322e-01	1.9002e+00
42	TAP120048	87.3988	88.2424	87.9536	2.1380e-01	1.9002e+00
43	TAP130048	87.2082	87.7328	87.3867	1.3446e-01	1.9002e+00
44	TAP120224	87.4280	88.0572	87.6525	1.5272e-01	1.9002e+00
45	TAP130224	86.8476	87.3735	87.1109	1.2440e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0710	2.2005e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1648	7.8186e-02	1.9010e+00
48	TAP130048	87.0900	88.4531	87.7757	3.2344e-01	1.9002e+00
49	TAP130136	86.9271	87.5553	87.2265	1.6647e-01	1.9002e+00
50	TAP130224	87.2684	88.4238	87.7749	2.9382e-01	1.9002e+00
51	TAP130312	86.7759	87.7203	87.2103	1.8970e-01	1.9002e+00
52	TRH130000	86.6535	87.5958	87.0159	2.2689e-01	1.9002e+00
53	TSI000001	79.7239	80.4617	80.1139	1.6528e-01	1.9001e+00
54	TSI000002	70.6176	71.5733	71.0700	2.6152e-01	1.9000e+00
55	TSO000001	67.3401	68.0888	67.7612	1.8887e-01	1.9000e+00
56	TSO000002	79.7896	80.6343	80.1720	1.7960e-01	1.9001e+00
57	TAP020136	86.8759	87.6141	87.2031	1.5674e-01	1.9002e+00
58	TAP120312	74.6392	75.6986	75.1583	2.4608e-01	1.9002e+00
59	TAP130312	86.5110	87.3493	86.9031	1.8564e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4802	2.3365e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4951	2.4164e-03	0.0000e+00
62	EMPTY	0.5029	0.5127	0.5090	2.3261e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5254	2.4164e-03	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3321	6.9053e-04	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3519	1.1714e-03	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3687	2.4662e-03	0.0000e+00
67	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
68	EMPTY	0.4004	0.4004	0.4004	0.0000e+00	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4197	9.6655e-04	0.0000e+00
70	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4591	6.9053e-04	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4928	1.3381e-03	0.0000e+00
74	EMPTY	0.5078	0.5078	0.5078	0.0000e+00	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5234	1.9738e-03	0.0000e+00
76	EMPTY	0.5371	0.5469	0.5396	2.6562e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5584	2.3675e-03	0.0000e+00
78	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6055	0.6055	0.0000e+00	0.0000e+00
80	PAN020136	14.7512	17.8030	16.5396	7.1805e-01	8.7098e-01
81	PAN050136	32.6882	34.2140	33.6220	3.1383e-01	1.6821e+00
82	PAN070136	23.6632	24.8839	24.1942	2.8711e-01	8.7210e-01
83	PAN080136	9.9389	10.6255	10.2853	1.5275e-01	8.7038e-01
84	PAN090136	9.8715	10.4818	10.1965	1.4111e-01	8.7037e-01
85	PAN100136	10.7444	11.3548	11.0740	1.1268e-01	8.7044e-01
86	PAN105136	7.7857	8.3198	8.0955	1.1370e-01	8.7024e-01
87	PAN110136	6.7059	7.0111	6.8234	8.7479e-02	8.7017e-01
88	PAN115136	7.1300	7.6640	7.3863	1.3327e-01	8.7020e-01
89	PAN120136	3.4400	3.8977	3.6231	1.0899e-01	8.7005e-01
90	PAN125136	4.6532	5.1873	4.9432	1.0679e-01	8.7009e-01
91	PAN130136	3.4781	4.0121	3.7405	1.2537e-01	8.7005e-01
92	PAN120048	9.6558	10.1899	9.8984	1.2775e-01	8.7035e-01
93	PAN130048	9.4650	9.9991	9.7748	1.3649e-01	8.7034e-01
94	PAN120224	10.7355	11.2696	11.0133	1.1196e-01	8.7044e-01
95	PAN130224	9.3374	9.7189	9.5358	1.2522e-01	8.7033e-01
96	PAN120312	10.9850	11.5191	11.2124	1.3392e-01	8.7045e-01
97	PAN130312	8.8298	9.4401	9.1334	1.3481e-01	8.7030e-01
98	PAB000136	36.2153	36.6273	36.4450	9.0373e-02	5.8711e-01
99	PAB100136	32.2820	32.5109	32.4066	4.9838e-02	5.8563e-01
100	PAB125136	31.2723	31.4096	31.3299	3.6773e-02	5.8526e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	35.8693	36.4796	36.1354	1.5340e-01	7.5542e-01
102	PRV0000001	19.8053	19.9274	19.8175	3.6993e-02	7.5163e-01
103	PSR0000001	30.0851	30.2072	30.1779	5.2663e-02	7.5379e-01
104	PFH0000001	38.8044	39.9030	39.2584	2.5155e-01	5.0954e-01
105	PAM000136	137.5059	147.5767	141.7814	2.0836e+00	4.9328e+00
106	PFH0000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0052	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-8.6816	-9.7657	3.4908e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPM0000001	-1.0519	-0.6612	-0.8331	1.0168e-01	8.1002e-01
113	VPM0000002	-0.9812	-0.5906	-0.7703	7.7324e-02	8.1001e-01
114	VPM0000003	-1.0166	-0.6259	-0.7705	1.1712e-01	8.1001e-01
115	VPM0000004	-0.8166	-0.2306	-0.5431	1.1838e-01	8.1001e-01
116	VPM0000005	-1.4872	-1.0966	-1.3231	9.9512e-02	8.1004e-01
117	VPM0000006	-1.5672	-1.1766	-1.3797	9.6332e-02	8.1004e-01
118	IPW0000001	-11.3611	-7.4564	-9.5259	1.0777e+00	8.1004e+00
119	IPW0000002	-12.1072	-8.2047	-10.3901	1.2240e+00	8.1004e+00
120	IPW0000003	-15.6468	-11.7468	-12.8778	1.0490e+00	8.1006e+00
121	IPW0000004	-2.4531	-1.4766	-1.9648	3.1195e-01	2.0001e+00
122	IPW0000005	-4.2058	-3.2294	-3.6590	2.7264e-01	2.0002e+00
123	IPW0000006	-2.9297	-1.4648	-2.4121	3.8725e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.3613e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.6118e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0183	3.0897e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.5030e-03	0.0000e+00
128	INT0000001	-0.2494	-0.0541	-0.1634	9.7935e-02	4.1000e+00
129	INT0000002	-0.2847	0.1059	-0.1441	1.1189e-01	4.1000e+00
130	INT0000003	-0.3294	-0.1341	-0.2513	9.6655e-02	4.1000e+00
131	INT0000004	-0.3953	-0.0047	-0.1766	7.5283e-02	4.1000e+00
132	INT0000005	-0.2800	0.1106	-0.1159	9.1354e-02	4.1000e+00
133	INT0000006	-0.1528	0.2378	-0.0083	1.1027e-01	4.1000e+00
134	INT0000007	-0.2753	0.1153	-0.1073	1.0447e-01	4.1000e+00
135	INT0000008	-0.3153	0.0753	-0.1591	9.6655e-02	4.1000e+00
136	INT0000009	-0.3953	-0.0047	-0.1883	7.2866e-02	4.1000e+00
137	INT0000010	-0.1600	0.0353	-0.1053	8.8585e-02	4.1000e+00
138	INT0000011	-0.2753	0.1153	-0.1152	8.5454e-02	4.1000e+00
139	INT0000012	-0.3128	0.0778	-0.1761	1.2001e-01	4.1000e+00
140	INT0000013	-0.1694	0.2212	-0.0405	1.0885e-01	4.1000e+00
141	INT0000014	-0.3553	0.0353	-0.1092	1.0297e-01	4.1000e+00
142	INT0000015	-0.2400	-0.0447	-0.1345	9.8332e-02	4.1000e+00
143	INT0000016	-0.3153	0.0753	-0.1356	8.6810e-02	4.1000e+00
144	INT0000017	-0.5859	0.1953	-0.0742	2.3308e-01	4.1000e+00
145	INT0000018	0.2753	0.6659	0.3730	1.1334e-01	4.1000e+00
146	INT0000019	-0.0400	0.1553	-0.0244	5.3525e-02	4.1000e+00
147	INT0000020	-0.2988	0.0919	-0.0995	7.3716e-02	4.1000e+00
148	INT0000021	3.1694	3.5600	3.3334	9.9512e-02	4.1001e+00
149	INT0000022	-0.3153	-0.1200	-0.1981	9.6655e-02	4.1000e+00
150	INT0000023	-0.3506	0.0400	-0.1319	7.5283e-02	4.1000e+00
151	INT0000024	-0.2853	-0.0900	-0.2345	8.6541e-02	4.1000e+00
152	INT0000025	-0.0047	0.1906	0.0734	9.6655e-02	4.1000e+00
153	INT0000026	-0.1953	0.0000	-0.0977	9.8648e-02	4.1000e+00
154	INT0000027	-0.1953	0.0000	-0.1367	9.0412e-02	4.1000e+00
155	INT0000028	-0.1647	0.2259	0.0502	9.0412e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT0000029	-0.0400	0.3506	0.1280	9.6735e-02	4.1000e+00
157	INT0000030	-0.0800	0.3106	0.1192	1.0052e-01	4.1000e+00
158	INT0000031	-0.0047	0.3059	0.0755	1.2283e-01	4.1000e+00
159	INT0000032	0.0000	0.3906	0.0508	9.5112e-02	4.1000e+00
160	INT0000033	37.3247	37.7153	37.3911	1.0145e-01	4.1170e+00
161	INT0000034	-0.0800	0.3106	0.0372	1.1838e-01	4.1000e+00
162	INT0000035	0.0072	0.3978	0.1009	1.1327e-01	4.1000e+00
163	INT0000036	-0.2353	0.3506	0.0186	1.0625e-01	4.1000e+00

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

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.5536	1.6523e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1846	1.0772e-01	1.9000e+00
2	TRF000001	85.6137	86.5575	86.1862	2.1619e-01	1.9002e+00
3	TIM000001	85.9950	86.9409	86.4849	1.9531e-01	1.9002e+00
4	TRV000001	85.4805	86.8396	86.2226	3.4793e-01	1.9002e+00
5	TSR000001	86.9296	88.0796	87.6216	3.0858e-01	1.9002e+00
6	EMPTY	601.0594	601.0594	601.0591	3.6993e-04	2.1295e+00
7	TAD050136	85.4058	86.3481	85.8603	2.1008e-01	1.9002e+00
8	TAD070136	86.8963	87.6335	87.3029	1.6325e-01	1.9002e+00
9	TAD080136	86.4845	87.1133	86.8303	1.4831e-01	1.9002e+00
10	TAD090136	86.2508	87.0893	86.6260	1.8590e-01	1.9002e+00
11	TAD100136	86.4562	87.0856	86.8526	1.5034e-01	1.9002e+00
12	TAD105136	86.7071	87.5466	87.1541	1.9647e-01	1.9002e+00
13	EMPTY	40.7527	41.2111	41.0828	1.2390e-01	1.9011e+00
14	TAD115136	85.9119	86.8591	86.4743	2.2567e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5466	4.5513e-02	1.9009e+00
16	TAD125136	86.4588	87.0883	86.7381	1.5359e-01	1.9002e+00
17	TAD130136	86.3202	87.0487	86.6711	1.8320e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2616	9.5888e-02	1.9011e+00
19	TAD13048	86.3156	86.9445	86.6864	1.4398e-01	1.9002e+00
20	TAD120224	86.0128	86.7479	86.4057	1.5558e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9030	1.1750e-01	1.9010e+00
22	TAD120312	86.2912	87.0266	86.6886	1.5800e-01	1.9002e+00
23	TAD130312	85.9829	86.6126	86.2958	1.6060e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3347	1.7708e-01	1.9010e+00
25	TAD170800	86.2874	86.8157	86.5139	1.4589e-01	1.9002e+00
26	TAD180800	86.4829	87.5305	87.0968	2.2286e-01	1.9002e+00
27	TAD120800	86.3910	87.1257	86.8214	1.4569e-01	1.9002e+00
28	TAD125000	86.5839	87.3160	86.9171	1.7500e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5965	1.1322e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7342	2.0297e-01	1.9011e+00
31	TAD050136	86.5370	87.1663	86.7996	1.6293e-01	1.9002e+00
32	TAD070136	86.9270	87.8669	87.4763	1.7878e-01	1.9002e+00
33	TAD080136	86.4337	87.0621	86.7626	1.6220e-01	1.9002e+00
34	TAD090136	86.6031	87.6514	87.1921	2.7589e-01	1.9002e+00
35	TAD100136	86.2650	86.8955	86.5825	1.4930e-01	1.9002e+00
36	TAD105136	86.3410	87.2884	86.8394	2.2527e-01	1.9002e+00
37	TAD110136	86.2313	86.9643	86.6143	1.7268e-01	1.9002e+00
38	TAD115136	86.8007	87.5344	87.1633	1.7988e-01	1.9002e+00
39	TAD120136	86.5838	87.0041	86.7836	1.0664e-01	1.9002e+00
40	TAD125136	86.7559	87.2793	87.0213	1.3403e-01	1.9002e+00
41	TAD130136	86.5516	87.0762	86.8390	1.1959e-01	1.9002e+00
42	TAD120048	86.7651	87.6086	87.1681	1.9834e-01	1.9002e+00
43	TAD130048	86.3691	86.8941	86.6232	1.3261e-01	1.9002e+00
44	TAD120224	86.4845	87.3240	86.8437	1.7862e-01	1.9002e+00
45	TAD130224	86.0040	86.5299	86.3050	1.1438e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	1.6909e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1465	4.6398e-02	1.9010e+00
48	TAD130048	86.3554	87.5096	86.9745	4.6398e-02	1.9002e+00
49	TAD130136	85.9055	86.8233	86.3987	2.1386e-01	1.9002e+00
50	TAD130224	86.5323	87.5834	86.9971	2.8575e-01	1.9002e+00
51	TAD130312	85.8298	86.8886	86.3911	2.1075e-01	1.9002e+00
52	TAD130000	86.8258	86.6547	86.2878	1.7351e-01	1.9002e+00
53	TSI000001	79.7234	80.4612	80.1138	1.5258e-01	1.9001e+00
54	TSI000002	70.6176	71.5733	71.1081	2.4246e-01	1.9000e+00
55	TSI000001	67.3397	68.1951	67.8212	1.7456e-01	1.9000e+00
56	TSI000002	79.6843	80.5285	80.0960	2.8371e-01	1.9001e+00
57	TAD020136	86.0316	86.7699	86.3963	1.8107e-01	1.9002e+00
58	TAD120312	74.6392	75.6986	75.1709	2.5088e-01	1.9000e+00
59	TAD130312	85.7769	86.6166	86.1320	1.6398e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4636	1.1714e-03	0.0000e+00
61	EMPTY	0.4736	0.4834	0.4783	1.3811e-03	0.0000e+00
62	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
63	EMPTY	0.5078	0.5127	0.5084	1.6028e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3237	2.2633e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3450	2.1365e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3612	6.9053e-04	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3785	2.4642e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3918	2.1865e-03	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4103	6.9053e-04	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4264	2.3088e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4496	1.3381e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4640	6.9053e-04	0.0000e+00
73	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4987	1.7115e-03	0.0000e+00
75	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5323	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5757	1.4797e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5967	1.9738e-03	0.0000e+00
80	PAD020136	8.8766	11.3943	10.2404	5.2282e-01	0.7038e-01
81	PAD050136	19.1078	20.4811	19.8311	2.4432e-01	1.6887e-01
82	PAD070136	15.1182	16.3389	15.7835	2.3631e-01	0.7009e-01
83	PAD080136	5.4376	5.9716	5.7107	1.8350e-01	0.7012e-01
84	PAD090136	5.6753	6.0568	5.8737	9.5816e-02	0.7012e-01
85	PAD100136	6.6245	7.0823	6.7939	1.0931e-01	0.7017e-01
86	PAD105136	5.6495	6.1873	5.8448	1.0243e-01	0.7012e-01
87	PAD110136	4.4171	4.6460	4.5285	6.2058e-02	0.7007e-01
88	PAD115136	3.9256	4.2308	4.0614	8.8933e-02	0.7006e-01
89	PAD120136	1.8378	2.2193	2.0316	9.4824e-02	0.7001e-01
90	PAD125136	2.3644	2.7459	2.4789	8.3362e-02	0.7002e-01
91	PAD130136	2.1048	2.4862	2.2543	9.7436e-02	0.7002e-01
92	PAD120048	5.3070	5.7648	5.5176	1.0289e-01	0.7011e-01
93	PAD130048	5.0400	5.4977	5.2948	8.9360e-02	0.7010e-01
94	PAD120224	6.2342	6.6920	6.5134	1.1494e-01	0.7015e-01
95	PAD130224	5.0649	5.3701	5.1916	7.4895e-02	0.7010e-01
96	PAD120312	6.2548	6.7126	6.5463	9.9523e-02	0.7015e-01
97	PAD130312	4.4810	4.9388	4.8015	1.0790e-01	0.7008e-01
98	PAD000136	34.0180	34.4300	34.1672	7.7271e-02	5.8626e-01
99	PAD100136	31.5496	31.7327	31.6430	4.5269e-02	5.8537e-01
100	PAD125136	30.9518	31.0892	31.0822	3.7281e-02	5.8516e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	33.5500	34.0382	33.8112	9.2309e-02	7.5475e-01
102	PRV000001	19.6832	19.8053	19.6906	2.9204e-02	7.5161e-01
103	PAR000001	30.0851	30.2072	30.1437	6.1605e-02	7.5378e-01
104	PFH000001	30.9308	31.7548	31.2824	2.3203e-01	5.0608e-01
105	PAN000136	83.4898	90.8140	86.7674	1.3883e+00	4.9248e+00
106	PPH000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9853e-04	0.0000e+00
108	EMPTY	-10.0000	-9.1113	-9.7827	2.8768e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0047	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPH000001	-1.0519	-0.6612	-0.8370	9.0412e-02	8.1002e-01
113	VPH000002	-0.9812	-0.5906	-0.7859	9.6655e-02	8.1001e-01
114	VPH000003	-1.0166	-0.6259	-0.7392	1.0507e-01	8.1001e-01
115	VPH000004	-0.8166	-0.4259	-0.6134	9.6332e-02	8.1001e-01
116	VPH000005	-1.4872	-1.0966	-1.3427	1.0297e-01	8.1004e-01
117	VPH000006	-1.7625	-1.1766	-1.4188	1.2658e-01	8.1004e-01
118	IPH000001	11.3611	-7.4564	-9.7211	1.2696e+00	8.1004e+00
119	IPH000002	-12.1072	-6.2534	-10.2340	1.4192e+00	8.1004e+00
120	IPH000003	-15.6468	-11.7468	-12.5268	1.0423e+00	8.1006e+00
121	IPH000004	-2.4531	-1.4766	-1.9746	3.0389e-01	2.0001e+00
122	IPH000005	-4.2058	-3.2294	-3.6492	2.9688e-01	2.0002e+00
123	IPH000006	-3.4180	-1.4648	-2.3828	4.0241e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0208	3.3901e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.7832e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0180	3.1874e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.5238e-03	0.0000e+00
128	INT000001	-0.2494	-0.0541	-0.1673	9.7377e-02	4.1000e+00
129	INT000002	-0.2847	0.1059	-0.1128	9.3718e-02	4.1000e+00
130	INT000003	-0.5247	-0.1341	-0.2434	1.0559e-01	4.1000e+00
131	INT000004	-0.2000	-0.0047	-0.1375	9.2034e-02	4.1000e+00
132	INT000005	-0.2800	0.1106	-0.1842	8.1347e-02	4.1000e+00
133	INT000006	-0.1528	0.2378	-0.0161	1.0625e-01	4.1000e+00
134	INT000007	-0.2753	-0.0888	-0.0956	5.3525e-02	4.1000e+00
135	INT000008	-0.3153	-0.1200	-0.1591	7.8918e-02	4.1000e+00
136	INT000009	-0.3953	-0.0847	-0.1766	7.5283e-02	4.1000e+00
137	INT000010	-0.1600	0.0353	-0.0897	9.4702e-02	4.1000e+00
138	INT000011	-0.2753	0.1153	-0.1191	8.8233e-02	4.1000e+00
139	INT000012	-0.3128	0.0778	-0.1995	1.0507e-01	4.1000e+00
140	INT000013	-0.1694	0.0259	-0.0287	8.8585e-02	4.1000e+00
141	INT000014	-0.3553	0.0353	-0.1287	9.1354e-02	4.1000e+00
142	INT000015	-0.2400	-0.0447	-0.1384	9.8569e-02	4.1000e+00
143	INT000016	-0.3153	-0.1200	-0.1434	6.4113e-02	4.1000e+00
144	INT000017	-0.3906	0.5859	-0.0273	2.4959e-01	4.1000e+00
145	INT000018	0.2753	0.6659	0.3925	1.0440e-01	4.1000e+00
146	INT000019	-0.2353	0.1553	-0.0361	6.2265e-02	4.1000e+00
147	INT000020	-0.2908	0.0919	-0.1230	7.1136e-02	4.1000e+00
148	INT000021	3.1694	3.5600	3.3334	8.2393e-02	4.1001e+00
149	INT000022	-0.3153	-0.1200	-0.2098	9.8332e-02	4.1000e+00
150	INT000023	-0.3506	0.0400	-0.1397	6.6498e-02	4.1000e+00
151	INT000024	-0.4806	-0.0900	-0.2619	7.5283e-02	4.1000e+00
152	INT000025	-0.0047	0.1906	0.0539	9.0412e-02	4.1000e+00
153	INT000026	-0.1953	0.1953	-0.0703	1.0259e-01	4.1000e+00
154	INT000027	-0.1953	0.0000	-0.1211	9.5765e-02	4.1000e+00
155	INT000028	-0.1647	0.2259	0.0306	1.0440e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.0400	0.3506	0.1358	9.0412e-02	4.1000e+00
157	INT000030	-0.0000	0.3106	0.1231	8.7888e-02	4.1000e+00
158	INT000031	-0.0047	0.3059	0.1028	1.1133e-01	4.1000e+00
159	INT000032	0.0000	0.1953	0.0547	8.8585e-02	4.1000e+00
160	INT000033	37.3247	37.5280	37.3989	9.5765e-02	4.1178e+00
161	INT000034	-0.2753	0.3106	0.0372	1.1161e-01	4.1000e+00
162	INT000035	-0.1081	0.3978	0.0970	1.1386e-01	4.1000e+00
163	INT000036	-0.2353	0.1553	-0.0048	9.4125e-02	4.1000e+00

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Velocity 1 - 12.2277 (ft/sec) (+/- 3.6346 %)
 Velocity 2 - 12.0668 (ft/sec) (+/- 3.4938 %)
 Pressure drop - 1.0606 (psi)
 Taat in - 253.9641 (deg F) Taat out - 251.8064 (deg F)
 Phi inner - 0.0058 (kbtu/hr-ft2) (+/- 115.9909 %)
 Phi outer - 0.0078 (kbtu/hr-ft2) (+/- 120.7589 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	74.8213	74.5621	1.6229e-01	1.9000e+00
1	TRF000002	74.9393	75.3622	75.1634	1.3104e-01	1.9000e+00
2	TFH000001	86.0328	86.8716	86.3894	1.8505e-01	1.9002e+00
3	TIN000001	86.4155	87.1510	86.7309	1.6160e-01	1.9002e+00
4	TRV000001	86.3159	87.0486	86.5592	1.6835e-01	1.9002e+00
5	TSR000001	87.3472	88.0791	87.6655	1.6502e-01	1.9002e+00
6	BNPT	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAC050136	85.7197	86.4529	85.9962	1.6495e-01	1.9002e+00
8	TAC070136	86.8971	87.7384	87.3640	2.1155e-01	1.9002e+00
9	TAC080136	86.5897	87.3217	86.9616	1.5557e-01	1.9002e+00
10	TAC090136	86.5649	87.1934	86.7412	1.6181e-01	1.9002e+00
11	TAC100136	86.6658	87.2952	86.9720	1.5980e-01	1.9002e+00
12	TAC105136	86.8118	87.7565	87.2696	2.0305e-01	1.9002e+00
13	BNPT	40.9819	41.4403	41.0965	1.3299e-01	1.9011e+00
14	TAC115136	86.2274	86.9645	86.5354	2.0490e-01	1.9002e+00
15	BNPT	37.5374	37.7675	37.5559	6.3038e-02	1.9009e+00
16	TAC125136	86.4593	87.0883	86.8197	1.3755e-01	1.9002e+00
17	TAC130136	86.4221	87.0487	86.7351	1.4747e-01	1.9002e+00
18	BNPT	40.9819	41.4403	41.2753	1.1377e-01	1.9011e+00
19	TAC130048	86.5247	87.1535	86.7763	1.3054e-01	1.9002e+00
20	TAC120224	86.2230	86.8526	86.5042	1.3143e-01	1.9002e+00
21	BNPT	38.6870	39.1464	38.8846	1.1378e-01	1.9010e+00
22	TAC120312	86.2917	87.1313	86.7031	1.7726e-01	1.9002e+00
23	TAC130312	86.1926	86.6126	86.3899	1.1551e-01	1.9002e+00
24	BNPT	38.9168	39.6057	39.3118	1.6752e-01	1.9010e+00
25	THT070000	86.2892	86.9204	86.6386	1.5691e-01	1.9002e+00
26	THT100000	86.7978	87.7395	87.2578	1.9270e-01	1.9002e+00
27	THT120000	86.6011	87.2304	86.9617	1.5005e-01	1.9002e+00
28	THT125000	86.5844	87.3160	86.9525	1.3382e-01	1.9002e+00
29	BNPT	39.3761	39.8352	39.6148	1.1322e-01	1.9011e+00
30	BNPT	39.3761	40.0646	39.6975	1.9674e-01	1.9011e+00
31	TAP050136	86.6422	87.3752	86.9730	1.5741e-01	1.9002e+00
32	TAP070136	87.1354	87.9715	87.5950	2.0452e-01	1.9002e+00
33	TAP080136	86.6423	87.2701	86.9311	1.6299e-01	1.9002e+00
34	TAP090136	86.6031	87.9654	87.3241	2.9465e-01	1.9002e+00
35	TAP100136	86.3702	87.0007	86.7023	1.7155e-01	1.9002e+00
36	TAP105136	86.5492	87.3838	86.9663	2.2594e-01	1.9002e+00
37	TAP110136	86.3355	87.1731	86.7709	1.9073e-01	1.9002e+00
38	TAP115136	86.8007	87.8484	87.2659	2.0647e-01	1.9002e+00
39	TAP120136	86.6890	87.2127	86.9568	1.2909e-01	1.9002e+00
40	TAP125136	86.7559	87.4875	87.1567	1.6414e-01	1.9002e+00
41	TAP130136	86.6564	87.2857	86.9332	1.4639e-01	1.9002e+00
42	TAP120048	86.8717	87.7138	87.3097	2.0796e-01	1.9002e+00
43	TAP130048	86.4742	86.9991	86.6966	1.3012e-01	1.9002e+00
44	TAP120224	86.6947	87.4284	87.0261	1.7514e-01	1.9002e+00
45	TAP130224	86.1098	86.7408	86.4675	1.3270e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	BNPT	37.7675	38.4572	38.1308	1.8043e-01	1.9010e+00
47	BNPT	38.9168	39.3761	39.2153	1.1599e-01	1.9010e+00
48	TAC130048	86.5652	87.9289	87.1571	2.9194e-01	1.9002e+00
49	TAC130136	86.1951	86.9285	86.5263	1.9428e-01	1.9002e+00
50	TAC130224	86.6375	87.5834	87.1422	2.3739e-01	1.9002e+00
51	TAC130312	86.2585	86.8887	86.5739	1.5714e-01	1.9002e+00
52	TAC130000	85.9210	86.8639	86.3778	2.0596e-01	1.9002e+00
53	TSI000001	79.7244	80.5670	80.1117	1.7487e-01	1.9001e+00
54	TSI000002	70.5115	71.5733	71.1145	2.6567e-01	1.9000e+00
55	TSI000001	67.4470	68.4093	67.8534	1.8335e-01	1.9000e+00
56	TSI000002	79.3673	80.1065	79.7562	1.8028e-01	1.9001e+00
57	TAP020136	86.2421	86.7699	86.5126	1.4468e-01	1.9002e+00
58	TAP120312	74.7449	75.5926	75.1562	2.5647e-01	1.9000e+00
59	TAP130312	86.0918	86.6166	86.3144	1.3517e-01	1.9002e+00
60	BNPT	0.4639	0.4688	0.4676	2.1065e-03	0.0000e+00
61	BNPT	0.4785	0.4834	0.4811	1.1714e-03	0.0000e+00
62	BNPT	0.4932	0.4980	0.4964	2.3365e-03	0.0000e+00
63	BNPT	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
64	BNPT	0.3223	0.3271	0.3241	2.3941e-03	0.0000e+00
65	BNPT	0.3418	0.3467	0.3451	2.3008e-03	0.0000e+00
66	BNPT	0.3564	0.3613	0.3612	6.9053e-04	0.0000e+00
67	BNPT	0.3760	0.3809	0.3792	2.3365e-03	0.0000e+00
68	BNPT	0.3906	0.3955	0.3919	2.1635e-03	0.0000e+00
69	BNPT	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	BNPT	0.4248	0.4297	0.4267	2.3941e-03	0.0000e+00
71	BNPT	0.4492	0.4541	0.4495	1.1714e-03	0.0000e+00
72	BNPT	0.4639	0.4688	0.4641	9.6655e-04	0.0000e+00
73	BNPT	0.4834	0.4883	0.4835	6.9053e-04	0.0000e+00
74	BNPT	0.4980	0.5029	0.4989	1.8950e-03	0.0000e+00
75	BNPT	0.5127	0.5225	0.5176	9.8648e-04	0.0000e+00
76	BNPT	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
77	BNPT	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	BNPT	0.5713	0.5762	0.5752	1.9730e-03	0.0000e+00
79	BNPT	0.5957	0.6006	0.5972	2.2603e-03	0.0000e+00
80	PAN020136	2.3916	3.3834	2.8860	2.3741e-01	8.7003e-01
81	PAN050136	6.1379	6.7482	6.4858	1.5731e-01	1.6801e+00
82	PAN070136	5.7341	6.2681	6.0240	1.1637e-01	8.7013e-01
83	PAN080136	1.2414	1.5466	1.3925	7.4705e-02	8.7001e-01
84	PAN090136	1.4029	1.7843	1.5966	8.3305e-02	8.7001e-01
85	PAN100136	2.1995	2.5047	2.3048	6.8742e-02	8.7002e-01
86	PAN105136	2.7503	3.0555	2.9365	8.0329e-02	8.7003e-01
87	PAN110136	1.7468	2.0520	1.9482	8.2661e-02	8.7001e-01
88	PAN115136	1.6368	1.9420	1.7756	8.6770e-02	8.7001e-01
89	PAN120136	0.0067	0.2356	0.1044	7.2362e-02	8.7000e-01
90	PAN125136	0.4571	0.6860	0.5501	6.5919e-02	8.7000e-01
91	PAN130136	0.1974	0.4263	0.3027	7.2116e-02	8.7000e-01
92	PAN120048	1.0346	1.3398	1.1734	7.8125e-02	8.7000e-01
93	PAN130048	1.0727	1.3779	1.2192	7.9854e-02	8.7001e-01
94	PAN120224	1.9617	2.2669	2.1159	7.4705e-02	8.7002e-01
95	PAN130224	0.9451	1.3265	1.1602	8.2560e-02	8.7000e-01
96	PAN120312	2.0586	2.3638	2.2173	7.9854e-02	8.7002e-01
97	PAN130312	0.7426	1.0478	0.9227	8.2661e-02	8.7000e-01
98	PAN000136	31.7750	31.9581	31.8674	4.5767e-02	5.8545e-01
99	PAN100136	30.8630	31.0003	30.9326	3.8400e-02	5.8513e-01
100	PAN125136	30.6314	30.7687	30.7092	3.8411e-02	5.8506e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	31.4748	31.7189	31.5968	4.2716e-02	7.5415e-01
102	PRV000001	19.6832	19.8053	19.7199	5.6508e-02	7.5162e-01
103	PSR000001	30.0851	30.3292	30.1852	5.3409e-02	7.5379e-01
104	PFH000001	22.7826	23.5150	23.1855	1.3209e-01	5.0335e-01
105	PAN000136	28.1004	30.3892	29.3638	6.3105e-01	4.9205e+00
106	PFH000002	22.0819	22.9209	22.5745	1.8877e-01	2.0781e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	10.0000	-9.0234	-9.7879	2.7685e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0035	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-1.0519	-0.6612	-0.8605	9.2456e-02	8.1002e-01
113	VPW000002	-0.9812	-0.5946	-0.7625	7.5283e-02	8.1001e-01
114	VPW000003	-1.0166	-0.6259	-0.7900	9.9512e-02	8.1001e-01
115	VPW000004	-0.8166	-0.4259	-0.5666	1.1189e-01	8.1001e-01
116	VPW000005	-1.4872	-1.0966	-1.3661	1.1084e-01	8.1004e-01
117	VPW000006	-1.5672	-1.1766	-1.3641	1.0410e-01	8.1004e-01
118	IPW000001	-11.3611	-5.5040	-9.4087	1.1156e+00	8.1003e+00
119	IPW000002	-14.0585	-8.2047	-10.4292	1.1833e+00	8.1004e+00
120	IPW000003	-15.6468	-11.7468	-12.9168	1.1819e+00	8.1006e+00
121	IPW000004	-2.4531	-1.4766	-1.8770	2.7356e-01	2.0001e+00
122	IPW000005	-4.2058	-2.7411	-3.6785	3.2476e-01	2.0002e+00
123	IPW000006	-2.9297	-1.4648	-2.3828	3.6433e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0211	3.3366e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0143	3.6699e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0177	2.7709e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.6963e-03	0.0000e+00
128	IHT0000001	-0.4447	-0.0541	-0.1791	1.0259e-01	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1597	1.0259e-01	4.1000e+00
130	IHT0000003	-0.3294	-0.1341	-0.2747	8.8585e-02	4.1000e+00
131	IHT0000004	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.1198	1.0206e-01	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0317	1.0358e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.0956	6.6498e-02	4.1000e+00
135	IHT0000008	-0.3153	-0.1200	-0.1903	9.4702e-02	4.1000e+00
136	IHT0000009	-0.2000	-0.0047	-0.1805	5.9189e-02	4.1000e+00
137	IHT0000010	-0.3553	0.0353	-0.1405	8.1347e-02	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.0956	6.6498e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1644	9.3043e-02	4.1000e+00
140	IHT0000013	-0.1694	0.0259	-0.0405	9.3461e-02	4.1000e+00
141	IHT0000014	-0.3553	0.0353	-0.1483	6.1257e-02	4.1000e+00
142	IHT0000015	-0.2400	0.1506	-0.1384	1.0617e-01	4.1000e+00
143	IHT0000016	-0.3153	0.0753	-0.1278	6.7888e-02	4.1000e+00
144	IHT0000017	-0.3906	0.3906	-0.0117	2.2464e-01	4.1000e+00
145	IHT0000018	0.2753	0.6659	0.3769	1.0617e-01	4.1000e+00
146	IHT0000019	-0.2353	0.1553	-0.0244	7.7324e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.0956	7.8523e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3530	8.2864e-02	4.1001e+00
149	IHT0000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	IHT0000023	-0.3506	0.0400	-0.1202	8.5454e-02	4.1000e+00
151	IHT0000024	-0.2853	-0.0900	-0.2150	9.4702e-02	4.1000e+00
152	IHT0000025	-0.0047	0.1906	0.0891	9.8569e-02	4.1000e+00
153	IHT0000026	-0.1953	0.0000	-0.0508	8.6541e-02	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1250	9.4702e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0267	1.0799e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0400	0.3506	0.1202	1.0206e-01	4.1000e+00
157	IHT0000030	-0.0800	0.3106	0.0958	9.8648e-02	4.1000e+00
158	IHT0000031	-0.0847	0.3059	0.0833	1.3093e-01	4.1000e+00
159	IHT0000032	0.0800	0.1953	0.0391	7.8918e-02	4.1000e+00
160	IHT0000033	37.3247	37.5200	37.3755	8.6541e-02	4.1170e+00
161	IHT0000034	-0.0800	0.3106	0.0294	1.0559e-01	4.1000e+00
162	IHT0000035	-0.1881	0.3978	0.0970	1.2608e-01	4.1000e+00
163	IHT0000036	-0.2353	0.1553	-0.0088	9.1354e-02	4.1000e+00

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Velocity 1 = 9.9084 (ft/sec) (+/- 3.8424 %)
 Velocity 2 = 9.8064 (ft/sec) (+/- 3.5235 %)
 Pressure drop = -0.9933 (psi)
 Tstat in = 249.1171 (deg F) Tstat out = 250.7308 (deg F)
 Phi inner = 0.0001 (kBtu/hr-ft2) (+/- 6769.1182 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 142636.8125 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

I	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	75.0338	74.5918	1.7618e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.2015	1.3207e-01	1.9000e+00
2	TFH0000001	86.3471	87.0815	86.7077	1.9654e-01	1.9002e+00
3	TIN0000001	86.6258	87.3616	87.0041	1.5303e-01	1.9002e+00
4	TRV0000001	86.5249	87.2579	86.8979	1.6945e-01	1.9002e+00
5	TSR0000001	87.3472	87.8709	87.6489	1.4602e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	85.9287	86.5570	86.3014	1.8345e-01	1.9002e+00
8	TAO070136	87.2125	88.1592	87.6545	2.0491e-01	1.9002e+00
9	TAO080136	86.9019	87.5301	87.2202	1.4952e-01	1.9002e+00
10	TAO090136	86.6695	87.5078	87.0217	2.1039e-01	1.9002e+00
11	TAO100136	86.9801	87.5051	87.2528	1.5717e-01	1.9002e+00
12	TAO105136	86.9171	87.9662	87.5340	2.1054e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1195	1.2250e-01	1.9011e+00
14	TAO115136	86.3333	87.1751	86.7838	2.1684e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5559	6.3038e-02	1.9009e+00
16	TAO125136	86.8776	87.4018	87.1001	1.3514e-01	1.9002e+00
17	TAO130136	86.6288	87.3571	87.0290	1.6395e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2799	1.0607e-01	1.9011e+00
19	TAO130048	86.7337	87.3625	87.0314	1.6039e-01	1.9002e+00
20	TAO120224	86.4327	87.1666	86.7809	1.8412e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8708	1.3127e-01	1.9010e+00
22	TAO120312	86.7115	87.3410	87.0094	1.6336e-01	1.9002e+00
23	TAO130312	86.4018	87.0308	86.6745	1.6412e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3301	1.9681e-01	1.9010e+00
25	TRT0700000	86.5005	87.2381	86.9046	1.6794e-01	1.9002e+00
26	TRT1000000	86.9017	87.8434	87.4628	1.9243e-01	1.9002e+00
27	TRT1200000	86.8106	87.4403	87.1880	1.5998e-01	1.9002e+00
28	TRT1250000	87.0010	87.6289	87.2900	1.9416e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6057	8.0326e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7066	1.9761e-01	1.9011e+00
31	TAF050136	86.8512	87.5840	87.2280	1.6926e-01	1.9002e+00
32	TAF070136	87.4484	88.2833	87.8993	2.0613e-01	1.9002e+00
33	TAF080136	86.8503	87.4781	87.1976	1.6011e-01	1.9002e+00
34	TAF090136	86.9174	88.0701	87.5922	2.6447e-01	1.9002e+00
35	TAF100136	86.6855	87.5253	87.0298	1.8002e-01	1.9002e+00
36	TAF105136	86.6526	87.7997	87.2787	2.5196e-01	1.9002e+00
37	TAF110136	86.6492	87.3819	87.0175	1.8478e-01	1.9002e+00
38	TAF115136	87.0101	87.9529	87.5925	1.8953e-01	1.9002e+00
39	TAF120136	87.0015	87.4217	87.2072	1.3225e-01	1.9002e+00
40	TAF125136	87.0678	87.7993	87.4527	1.5881e-01	1.9002e+00
41	TAF130136	86.8659	87.4955	87.2852	1.4221e-01	1.9002e+00
42	TAF120048	87.0829	88.1359	87.6347	2.5762e-01	1.9002e+00
43	TAF130048	86.6840	87.3140	87.0448	1.5459e-01	1.9002e+00
44	TAF120224	86.9043	87.7430	87.3404	1.9684e-01	1.9002e+00
45	TAF130224	86.5319	86.9522	86.7544	1.3189e-01	1.9002e+00

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I	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0572	2.3598e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2291	1.1134e-01	1.9010e+00
48	TAI130048	86.7751	88.1385	87.4129	3.1839e-01	1.9002e+00
49	TAI130136	86.4043	87.2421	86.8065	2.0339e-01	1.9002e+00
50	TAI130224	86.7431	87.7935	87.3986	2.4715e-01	1.9002e+00
51	TAI130312	86.4607	87.1958	86.8427	1.7721e-01	1.9002e+00
52	TRR130000	86.1303	87.0726	86.6332	1.9513e-01	1.9002e+00
53	TSI0000001	79.8292	80.5670	80.1244	1.7563e-01	1.9001e+00
54	TSI0000002	70.5115	71.7853	71.2079	2.9337e-01	1.9000e+00
55	TSO0000001	67.6608	68.4093	68.0203	1.7511e-01	1.9000e+00
56	TSO0000002	79.3678	80.2122	79.8238	2.0732e-01	1.9001e+00
57	TAF020136	86.4547	87.2970	86.8419	1.6549e-01	1.9002e+00
58	TAF120312	74.5334	75.5926	75.1180	2.6138e-01	1.9000e+00
59	TAF130312	86.1967	86.8266	86.5910	1.6359e-01	1.9002e+00
60	EMPTY	0.4688	0.4785	0.4728	2.1364e-03	0.0000e+00
61	EMPTY	0.4834	0.4932	0.4879	1.6624e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5016	2.2146e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5181	1.4797e-03	0.0000e+00
64	EMPTY	0.3223	0.3320	0.3268	1.6624e-03	0.0000e+00
65	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3622	1.8950e-03	0.0000e+00
67	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
68	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4132	2.3941e-03	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4295	9.6655e-04	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4535	1.6028e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4662	2.4642e-03	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4846	2.1065e-03	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5026	1.1714e-03	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5181	1.4797e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5323	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5762	0.5762	0.5762	0.0000e+00	0.0000e+00
79	EMPTY	0.5957	0.6006	0.6005	6.9053e-04	0.0000e+00
80	PAN020136	-4.3223	-3.7119	-4.0735	1.3421e-01	8.7006e-01
81	PAN050136	-7.1373	-6.5269	-6.8718	1.3370e-01	1.6801e+00
82	PAN070136	-3.8027	-3.4212	-3.5845	8.5834e-02	8.7005e-01
83	PAN080136	-3.0311	-2.8022	-2.9090	7.2297e-02	8.7003e-01
84	PAN090136	-2.7170	-2.4118	-2.5782	9.0784e-02	8.7002e-01
85	PAN100136	-2.3018	-1.9967	-2.1233	8.3874e-02	8.7002e-01
86	PAN105136	-0.0726	0.2326	0.1121	6.5558e-02	8.7000e-01
87	PAN110136	-0.8472	-0.5420	-0.6854	8.1036e-02	8.7000e-01
88	PAN115136	-0.5757	-0.2706	-0.4643	7.4258e-02	8.7000e-01
89	PAN120136	-2.0532	-1.7480	-1.9372	7.4306e-02	8.7001e-01
90	PAN125136	-1.5266	-1.2977	-1.4091	5.3860e-02	8.7001e-01
91	PAN130136	-1.7099	-1.4811	-1.5894	6.7346e-02	8.7001e-01
92	PAN120048	-3.2379	-3.0090	-3.1122	6.2819e-02	8.7003e-01
93	PAN130048	-2.9709	-2.7420	-2.8382	7.0314e-02	8.7003e-01
94	PAN120224	-2.4633	-2.1581	-2.3016	7.8049e-02	8.7002e-01
95	PAN130224	-3.0985	-2.7934	-2.9566	7.2313e-02	8.7003e-01
96	PAN120312	-2.2901	-2.0512	-2.1803	7.4178e-02	8.7002e-01
97	PAN130312	-3.1484	-2.9195	-3.0507	6.1732e-02	8.7003e-01
98	PAB000136	29.2573	29.3946	29.3186	4.0954e-02	5.8461e-01
99	PAB100136	29.8559	30.0390	29.9374	3.9552e-02	5.8481e-01
100	PAB125136	30.0821	30.2652	30.1462	4.5307e-02	5.8488e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	28.9113	29.0334	28.9552	5.9189e-02	7.5349e-01
102	PRV0000001	20.1715	20.2936	20.2081	5.6508e-02	7.5170e-01
103	PSR0000001	29.8409	29.9630	29.8800	5.7521e-02	7.5371e-01
104	PFM0000001	14.9091	15.3669	15.1691	1.1153e-01	5.0144e-01
105	PAN000136	-28.2045	-26.3735	-27.4996	5.3296e-01	4.9205e+00
106	PFM0000002	14.2457	15.5545	14.8555	2.6979e-01	2.0342e-01
107	EMPTY	-0.0049	0.0049	0.0041	2.0598e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8184	-9.8616	2.6610e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0016	2.3008e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPM0000001	-0.2706	0.1200	-0.1027	8.8321e-02	8.1000e-01
113	VPM0000002	-0.2000	0.1906	0.0031	8.7880e-02	8.1000e-01
114	VPM0000003	-0.0400	0.1553	-0.0048	7.5798e-02	8.1000e-01
115	VPM0000004	-0.2306	0.1600	0.0467	1.1223e-01	8.1000e-01
116	VPM0000005	-0.1200	0.2706	-0.0067	1.1223e-01	8.1000e-01
117	VPM0000006	-0.2000	0.1906	-0.0516	1.1545e-01	8.1000e-01
118	IPW0000001	-11.3611	15.9717	-1.3260	1.1191e+01	8.1000e+00
119	IPW0000002	-37.4737	-8.2047	-19.0928	1.2354e+01	8.1014e+00
120	IPW0000003	-15.6468	-9.7968	-12.6438	1.1288e+00	8.1006e+00
121	IPW0000004	-2.4531	-1.4766	-1.9746	2.0903e-01	2.0001e+00
122	IPW0000005	-4.2058	-3.2294	-3.6785	3.2476e-01	2.0002e+00
123	IPW0000006	-2.9297	-1.4648	-2.2754	3.6393e-01	2.0001e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	4.2269e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.0067e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0183	3.2434e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0157	3.3146e-03	0.0000e+00
128	INT0000001	-0.2494	0.1412	-0.1634	1.0559e-01	4.1000e+00
129	INT0000002	-0.2847	0.1059	-0.1245	1.1632e-01	4.1000e+00
130	INT0000003	-0.5247	-0.1341	-0.2473	1.0507e-01	4.1000e+00
131	INT0000004	-0.2000	-0.0047	-0.1531	8.4262e-02	4.1000e+00
132	INT0000005	-0.2800	0.1106	-0.1277	9.0756e-02	4.1000e+00
133	INT0000006	-0.1528	0.2378	0.0073	1.0206e-01	4.1000e+00
134	INT0000007	-0.2753	0.1153	-0.0917	7.2866e-02	4.1000e+00
135	INT0000008	-0.3153	0.0753	-0.1591	8.8233e-02	4.1000e+00
136	INT0000009	-0.2000	-0.0047	-0.1766	6.4113e-02	4.1000e+00
137	INT0000010	-0.1600	0.2306	-0.0975	1.0763e-01	4.1000e+00
138	INT0000011	-0.2753	0.1153	-0.0956	8.6810e-02	4.1000e+00
139	INT0000012	-0.3128	0.2731	-0.1448	1.3093e-01	4.1000e+00
140	INT0000013	-0.1694	0.2212	-0.0327	1.0625e-01	4.1000e+00
141	INT0000014	-0.3553	0.2306	-0.1053	1.1189e-01	4.1000e+00
142	INT0000015	-0.2400	0.1506	-0.1502	1.1306e-01	4.1000e+00
143	INT0000016	-0.3153	0.0753	-0.1395	7.1136e-02	4.1000e+00
144	INT0000017	-0.3906	0.3906	0.0000	2.3008e-01	4.1000e+00
145	INT0000018	0.2753	0.6659	0.3964	1.1084e-01	4.1000e+00
146	INT0000019	-0.0400	0.1553	-0.0205	5.9189e-02	4.1000e+00
147	INT0000020	-0.2988	0.0919	-0.1230	8.1347e-02	4.1000e+00
148	INT0000021	3.1694	3.5600	3.3412	7.5283e-02	4.1001e+00
149	INT0000022	-0.3153	-0.1200	-0.1942	9.5765e-02	4.1000e+00
150	INT0000023	-0.3506	0.0400	-0.1241	8.2393e-02	4.1000e+00
151	INT0000024	-0.2853	-0.0900	-0.2111	9.5765e-02	4.1000e+00
152	INT0000025	-0.2000	0.3859	0.0695	1.1084e-01	4.1000e+00
153	INT0000026	-0.3906	0.0000	-0.0430	9.0756e-02	4.1000e+00
154	INT0000027	-0.1953	0.0000	-0.1289	9.3461e-02	4.1000e+00
155	INT0000028	-0.1647	0.2259	0.0502	1.0625e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT0000029	-0.0400	0.3506	0.1280	1.0447e-01	4.1000e+00
157	INT0000030	-0.0800	0.3106	0.0958	9.8648e-02	4.1000e+00
158	INT0000031	-0.0847	0.3059	0.0989	9.9902e-02	4.1000e+00
159	INT0000032	-0.1953	0.1953	0.0586	9.8648e-02	4.1000e+00
160	INT0000033	37.3247	37.5200	37.3872	9.2034e-02	4.1170e+00
161	INT0000034	-0.0800	0.3106	0.0411	1.2409e-01	4.1000e+00
162	INT0000035	-0.1881	0.3978	0.0892	1.1897e-01	4.1000e+00
163	INT0000036	-0.2353	0.3506	-0.0205	9.0412e-02	4.1000e+00

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Velocity 1 - 8.0828 (ft/sec) (+/- 4.2702 %)
 Velocity 2 - 7.9342 (ft/sec) (+/- 3.5934 %)
 Pressure drop - -2.3693 (psi)
 Tsat in - 245.9119 (deg F) Tsat out - 250.2814 (deg F)
 Phi inner - 0.0002 (kBtu/hr-ft2) (+/- 2472.6531 %)
 Phi outer - 0.0003 (kBtu/hr-ft2) (+/- 1497.7393 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.1838	74.8213	74.5663	1.7702e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.1930	1.2815e-01	1.9000e+00
2	TFH0000001	86.4518	87.2903	86.8542	2.1420e-01	1.9002e+00
3	TIN0000001	86.8362	87.5712	87.2100	1.7128e-01	1.9002e+00
4	TRV0000001	86.5249	87.3626	86.8936	2.0419e-01	1.9002e+00
5	TSR0000001	87.3472	87.9755	87.6238	1.5075e-01	1.9002e+00
6	EMPTY	601.0594	601.0594	601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.1376	87.0795	86.5227	2.0668e-01	1.9002e+00
8	TAO070136	87.5283	88.3697	87.8946	1.9025e-01	1.9002e+00
9	TAO080136	87.0052	87.9467	87.4743	1.8931e-01	1.9002e+00
10	TAO090136	86.8788	87.6123	87.2727	1.7142e-01	1.9002e+00
11	TAO100136	87.0849	87.9235	87.4958	1.7325e-01	1.9002e+00
12	TAO105136	87.1270	88.2806	87.7186	2.4697e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.0920	1.4074e-01	1.9011e+00
14	TAO115136	86.5440	87.4907	86.9945	2.3480e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5835	9.2945e-02	1.9010e+00
16	TAO125136	86.8776	87.7154	87.3383	1.9287e-01	1.9002e+00
17	TAO130136	86.9369	87.5636	87.2725	1.5501e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2982	1.2151e-01	1.9011e+00
19	TAO130048	86.8375	87.5714	87.2403	1.6851e-01	1.9002e+00
20	TAO120224	86.6423	87.2717	86.9989	1.5862e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8800	1.2591e-01	1.9010e+00
22	TAO120312	86.9213	87.6558	87.2066	1.9432e-01	1.9002e+00
23	TAO130312	86.5058	87.2399	86.8710	1.7881e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3302	1.7966e-01	1.9010e+00
25	TRT0700000	86.8178	87.5539	87.1370	1.6864e-01	1.9002e+00
26	TRT1000000	87.1108	88.1574	87.7177	2.5200e-01	1.9002e+00
27	TRT1200000	87.0201	87.8585	87.4686	1.7604e-01	1.9002e+00
28	TRT1250000	86.8958	87.8370	87.4898	1.9287e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5919	1.0787e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6745	1.7504e-01	1.9011e+00
31	TAF050136	86.9554	87.7928	87.4493	2.0074e-01	1.9002e+00
32	TAF070136	87.5520	88.5960	88.0740	2.2714e-01	1.9002e+00
33	TAF080136	87.0584	87.8939	87.3929	1.9002e-01	1.9002e+00
34	TAF090136	87.3364	88.3841	87.7849	2.8475e-01	1.9002e+00
35	TAF100136	86.7904	87.5253	87.2356	1.5081e-01	1.9002e+00
36	TAF105136	87.0687	88.0071	87.4989	2.4449e-01	1.9002e+00
37	TAF110136	86.7533	87.5907	87.2596	1.8603e-01	1.9002e+00
38	TAF115136	87.3236	88.1621	87.7640	2.0843e-01	1.9002e+00
39	TAF120136	87.1050	87.6298	87.4157	1.3893e-01	1.9002e+00
40	TAF125136	87.3792	88.0070	87.6649	1.5964e-01	1.9002e+00
41	TAF130136	87.1796	87.7044	87.4778	1.4740e-01	1.9002e+00
42	TAF120048	87.2942	88.2424	87.7995	2.3800e-01	1.9002e+00
43	TAF130048	86.9983	87.5232	87.2671	1.5605e-01	1.9002e+00
44	TAF120224	87.2182	87.8478	87.4744	1.6573e-01	1.9002e+00
45	TAF130224	86.6376	87.1627	86.9527	1.3248e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.1307	2.4619e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1924	9.2786e-02	1.9010e+00
48	TAI130048	86.9848	88.1385	87.6142	2.8738e-01	1.9002e+00
49	TAI130136	86.6133	87.4511	87.0698	2.1338e-01	1.9002e+00
50	TAI130224	87.0581	88.2137	87.6971	2.6148e-01	1.9002e+00
51	TAI130312	86.6707	87.5105	87.0989	1.9765e-01	1.9002e+00
52	TBI130000	86.3395	87.3868	86.8172	2.1281e-01	1.9002e+00
53	TSI0000001	79.6180	80.3565	80.0443	1.6221e-01	1.9001e+00
54	TSI0000002	70.7237	71.7853	71.2036	2.5210e-01	1.9000e+00
55	TSO0000001	67.6608	68.4093	67.9818	2.1274e-01	1.9000e+00
56	TSO0000002	79.5789	80.6343	80.1066	2.1748e-01	1.9001e+00
57	TAF020136	86.6660	87.4029	87.0532	1.7341e-01	1.9002e+00
58	TAF120312	74.5334	75.8042	75.1350	2.9216e-01	1.9000e+00
59	TAF130312	86.5105	87.1404	86.8088	1.6739e-01	1.9002e+00
60	EMPTY	0.4736	0.4834	0.4785	9.8648e-04	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4933	6.9053e-04	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5077	6.9053e-04	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5230	1.6028e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3273	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3469	9.6655e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3658	1.3381e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3821	2.1635e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4299	9.6655e-04	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4687	6.9053e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4881	9.6655e-04	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5218	1.7115e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5367	1.3381e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5560	1.7115e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5770	1.8082e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6008	9.6655e-04	0.0000e+00
80	PAN020136	-8.9762	-8.5947	-8.7351	8.7682e-02	8.7027e-01
81	PAN050136	-16.1400	-15.5296	-15.8592	1.2844e-01	1.6805e+00
82	PAN070136	-10.2114	-9.8299	-9.9428	9.7777e-02	8.7036e-01
83	PAN080136	-5.9302	-5.6251	-5.7868	7.8049e-02	8.7012e-01
84	PAN090136	-5.6162	-5.2347	-5.4239	7.2690e-02	8.7011e-01
85	PAN100136	-5.2773	-5.0484	-5.1354	7.5527e-02	8.7009e-01
86	PAN105136	-1.9036	-1.6747	-1.7327	6.4591e-02	8.7001e-01
87	PAN110136	-2.4494	-2.2205	-2.3670	6.6903e-02	8.7002e-01
88	PAN115136	-2.1016	-1.8727	-2.0101	6.3552e-02	8.7001e-01
89	PAN120136	-3.4265	-3.1213	-3.2586	6.7187e-02	8.7004e-01
90	PAN125136	-2.8999	-2.7473	-2.8343	5.5596e-02	8.7003e-01
91	PAN130136	-3.0069	-2.7018	-2.8437	6.8949e-02	8.7003e-01
92	PAN120048	-6.2133	-5.9845	-6.0806	6.6850e-02	8.7013e-01
93	PAN130048	-5.7175	-5.4886	-5.6351	6.5103e-02	8.7011e-01
94	PAN120224	-5.3625	-5.0573	-5.2129	6.7116e-02	8.7010e-01
95	PAN130224	-5.7688	-5.5399	-5.6437	5.9218e-02	8.7011e-01
96	PAN120312	-5.2656	-5.0367	-5.1710	6.4591e-02	8.7010e-01
97	PAN130312	-5.8950	-5.7424	-5.8110	6.0192e-02	8.7012e-01
98	PAB000136	27.6551	27.7924	27.7338	3.8176e-02	5.8413e-01
99	PAB100136	29.3524	29.4897	29.4302	3.4911e-02	5.8465e-01
100	PAB125136	29.8532	29.9905	29.9136	4.0776e-02	5.8480e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.4464	27.5685	27.4757	5.2663e-02	7.5314e-01
102	PRV000001	20.2936	20.4157	20.3766	5.7521e-02	7.5173e-01
103	PSR000001	29.8409	29.9630	29.8580	4.2787e-02	7.5371e-01
104	PFH000001	9.8737	10.2399	10.0513	9.5054e-02	5.0063e-01
105	PAN000136	-66.1989	-64.8256	-65.5947	3.3905e-01	4.9227e+00
106	PFH000002	9.0775	10.2689	9.6809	2.6373e-01	2.0146e-01
107	EMPTY	-0.0049	0.0049	0.0018	3.6593e-03	0.0000e+00
108	EMPTY	-10.0000	-8.6670	-9.9268	2.2919e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0008	1.8082e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0831	1.0410e-01	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0086	9.2456e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0303	9.4702e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0819	1.0440e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0067	1.0507e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0359	1.2072e-01	8.1000e-01
118	IPW000001	-9.4087	-5.5040	-7.6907	1.2866e+00	8.1002e+00
119	IPW000002	-8.2047	-2.3509	-5.0827	1.3656e+00	8.1001e+00
120	IPW000003	5.8032	11.6532	8.9232	1.4204e+00	8.1003e+00
121	IPW000004	1.4531	2.4297	2.0000	2.5420e-01	2.0001e+00
122	IPW000005	-1.2764	-0.3000	-0.9444	2.8656e-01	2.0000e+00
123	IPW000006	-8.3008	-5.3711	-6.9238	5.9753e-01	2.0007e+00
124	EMPTY	-0.0293	-0.0146	-0.0207	3.2057e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.8996e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0181	3.4527e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0150	3.0945e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1322	1.1161e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1167	1.1168e-01	4.1000e+00
130	IHT000003	-0.3294	0.0613	-0.2083	1.0358e-01	4.1000e+00
131	IHT000004	-0.2000	0.1906	-0.1453	9.6976e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.0964	1.0741e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0073	1.2901e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0995	9.8648e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1630	1.1361e-01	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1766	8.4997e-02	4.1000e+00
137	IHT000010	-0.3553	0.0353	-0.1014	1.0625e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1191	9.6655e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1527	9.4125e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0366	9.2034e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1131	9.3043e-02	4.1000e+00
142	IHT000015	-0.4353	-0.0447	-0.1658	1.0358e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1552	8.5454e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0742	2.5842e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3808	9.8332e-02	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0048	7.5798e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0956	7.8523e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3491	8.6810e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1825	9.2034e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1280	6.8459e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2150	9.4702e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0930	9.8648e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0586	9.0412e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1055	9.8332e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0150	1.1049e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1084	1.0106e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	8.8233e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0872	1.2251e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0508	8.6541e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3638	7.8918e-02	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0216	1.1327e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.0931	1.3182e-01	4.1000e+00
163	IHT000036	-0.2353	0.3506	-0.0205	1.1334e-01	4.1000e+00

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Velocity 1 - 6.0506 (ft/sec) (+/- 5.6618 %)
 Velocity 2 - 5.8737 (ft/sec) (+/- 3.8695 %)
 Pressure drop - -3.6147 (psi)
 Tsat in - 243.1489 (deg F) Tsat out - 250.0448 (deg F)
 Phi inner - -0.0003 (kBtu/hr-ft2) (+/- 3016.1479 %)
 Phi outer - -0.0002 (kBtu/hr-ft2) (+/- 483.8588 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.1838	74.8213	74.5578	1.9935e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.2100	1.0498e-01	1.9000e+00
2	TRF0000003	86.5565	87.3944	86.9463	1.7337e-01	1.9002e+00
3	TIN0000001	86.9409	87.5712	87.2898	1.3491e-01	1.9002e+00
4	TRV0000001	86.6297	87.2579	86.9772	1.6833e-01	1.9002e+00
5	TSR0000001	87.4519	87.8709	87.6571	1.3875e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.1376	87.0795	86.5561	2.4382e-01	1.9002e+00
8	TAO070136	87.6338	88.3697	87.9283	1.7896e-01	1.9002e+00
9	TAO080136	87.2151	87.9467	87.5035	1.5340e-01	1.9002e+00
10	TAO090136	86.9835	87.8214	87.3522	2.1921e-01	1.9002e+00
11	TAO100136	87.1896	87.8189	87.5293	1.5655e-01	1.9002e+00
12	TAO105136	87.3364	88.1760	87.7773	2.1721e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1011	1.2459e-01	1.9011e+00
14	TAO115136	86.5440	87.4907	87.0366	2.0977e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5697	8.0626e-02	1.9010e+00
16	TAO125136	87.0863	87.7154	87.3508	1.5165e-01	1.9002e+00
17	TAO130136	87.0416	87.6683	87.2767	1.4095e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2570	1.1340e-01	1.9011e+00
19	TAO130048	86.9423	87.9891	87.3155	1.9986e-01	1.9002e+00
20	TAO120224	86.7471	87.4812	87.0575	1.6689e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8754	1.0052e-01	1.9010e+00
22	TAO120312	86.9208	87.5508	87.2653	1.7367e-01	1.9002e+00
23	TAO130312	86.6105	87.2399	86.9128	1.7551e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3164	2.0120e-01	1.9010e+00
25	TRT070000	86.9225	87.5539	87.2088	1.7928e-01	1.9002e+00
26	TRT100000	87.3194	88.1574	87.7386	2.0934e-01	1.9002e+00
27	TRT120000	87.1248	87.8585	87.4895	1.7244e-01	1.9002e+00
28	TRT125000	87.1057	87.8370	87.5481	1.6836e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5827	9.5613e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7158	1.9254e-01	1.9011e+00
31	TAP050136	87.1639	87.7928	87.5036	1.8149e-01	1.9002e+00
32	TAP070136	87.8649	88.4910	88.1448	1.6542e-01	1.9002e+00
33	TAP080136	87.1631	87.8939	87.4927	1.5428e-01	1.9002e+00
34	TAP090136	87.3360	88.2795	87.7974	2.3567e-01	1.9002e+00
35	TAP100136	86.8956	87.7351	87.3405	1.9503e-01	1.9002e+00
36	TAP105136	87.0683	87.9043	87.5239	2.2177e-01	1.9002e+00
37	TAP110136	87.0669	87.6943	87.3223	1.5284e-01	1.9002e+00
38	TAP115136	87.4283	88.2668	87.8770	2.1590e-01	1.9002e+00
39	TAP120136	87.2097	87.8383	87.4574	1.4168e-01	1.9002e+00
40	TAP125136	87.3808	88.1121	87.7107	1.5741e-01	1.9002e+00
41	TAP130136	87.2843	87.9137	87.5071	1.4937e-01	1.9002e+00
42	TAP120048	87.3988	88.3470	87.8796	2.3223e-01	1.9002e+00
43	TAP130048	87.1030	87.5232	87.3174	1.2723e-01	1.9002e+00
44	TAP120224	87.1133	87.9524	87.5833	1.8494e-01	1.9002e+00
45	TAP130224	86.7424	87.2689	86.9821	1.4413e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1170	2.5118e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1694	6.9589e-02	1.9010e+00
48	TAI130048	87.1946	88.2435	87.6939	2.6676e-01	1.9002e+00
49	TAI130136	86.6133	87.4511	87.1199	2.0549e-01	1.9002e+00
50	TAI130224	87.0581	88.4238	87.6845	3.2813e-01	1.9002e+00
51	TAI130312	86.7755	87.5105	87.1241	2.1155e-01	1.9002e+00
52	TRR130000	86.4443	87.2821	86.8715	2.2475e-01	1.9002e+00
53	TSI0000001	79.7234	80.3565	80.0569	1.6826e-01	1.9001e+00
54	TSI0000002	70.6176	71.7853	71.0975	2.6805e-01	1.9000e+00
55	TSO0000001	67.5540	68.4093	67.9432	2.0350e-01	1.9000e+00
56	TSO0000002	79.5785	80.3180	80.0770	1.9205e-01	1.9001e+00
57	TAP020136	86.7707	87.4034	87.1165	1.6765e-01	1.9002e+00
58	TAP120312	74.6392	75.5926	75.1434	2.2703e-01	1.9000e+00
59	TAP130312	86.5110	87.2451	86.8800	1.9101e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4793	1.8082e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4938	1.6028e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5081	1.1714e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5241	2.3365e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3273	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3475	1.8082e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3661	6.9053e-04	0.0000e+00
67	EMPTY	0.3809	0.3906	0.3824	2.5034e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4299	9.6655e-04	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4736	0.4688	9.8648e-04	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4882	6.9053e-04	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5224	6.9053e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5368	1.1714e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5562	1.4797e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5774	2.1635e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6007	6.9053e-04	0.0000e+00
80	PAN020136	-13.0198	-12.7146	-12.8794	6.4222e-02	8.7060e-01
81	PAN050136	-24.2271	-23.7694	-24.0410	1.2442e-01	1.6811e+00
82	PAN070136	-15.7808	-15.5519	-15.6740	8.0092e-02	8.7088e-01
83	PAN080136	-8.4479	-8.2191	-8.3243	6.8742e-02	8.7025e-01
84	PAN090136	-8.0576	-7.9050	-7.9798	4.7483e-02	8.7023e-01
85	PAN100136	-8.0239	-7.7187	-7.8881	7.2772e-02	8.7022e-01
86	PAN105136	-3.5058	-3.3532	-3.4142	5.7673e-02	8.7004e-01
87	PAN110136	-4.1278	-3.8989	-3.9707	5.2065e-02	8.7006e-01
88	PAN115136	-3.6275	-3.3986	-3.5161	6.0113e-02	8.7004e-01
89	PAN120136	-4.6472	-4.4183	-4.5389	7.2444e-02	8.7007e-01
90	PAN125136	-4.1969	-3.9680	-4.0473	5.9617e-02	8.7006e-01
91	PAN130136	-4.2276	-3.9988	-4.1315	5.2970e-02	8.7006e-01
92	PAN120048	-8.8836	-8.7310	-8.8150	5.6107e-02	8.7028e-01
93	PAN130048	-8.2352	-8.0826	-8.1528	5.3037e-02	8.7024e-01
94	PAN120224	-8.0328	-7.8802	-7.9443	6.2345e-02	8.7023e-01
95	PAN130224	-8.2865	-8.0576	-8.2148	5.6444e-02	8.7024e-01
96	PAN120312	-8.0122	-7.7070	-7.8458	8.2560e-02	8.7022e-01
97	PAN130312	-8.2601	-8.1075	-8.2036	4.8277e-02	8.7024e-01
98	PAB000136	26.3276	26.5107	26.4274	3.8898e-02	5.8375e-01
99	PAB100136	28.9861	29.1693	29.0530	4.4555e-02	5.8453e-01
100	PAB125136	29.7159	29.8532	29.7918	4.1985e-02	5.8476e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.9816	26.2257	26.0988	3.4527e-02	7.5283e-01
102	PRV000001	20.2936	20.4157	20.3424	6.0409e-02	7.5172e-01
103	PSR000001	29.8409	29.9630	29.9288	5.5366e-02	7.5372e-01
104	PFH000001	5.4792	5.7538	5.5890	8.0624e-02	5.0020e-01
105	PAN000136	-100.5312	-99.6157	-100.0734	1.6018e-01	4.9264e+00
106	PFH000002	4.7484	5.6209	5.2622	1.9275e-01	2.0043e-01
107	EMPTY	-0.0049	0.0049	-0.0010	3.9459e-03	0.0000e+00
108	EMPTY	-10.0000	-9.6826	-9.9625	8.9217e-02	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0714	8.3612e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0008	8.3612e-02	8.1000e-01
114	VPW000003	-0.2353	0.1553	0.0147	1.1189e-01	8.1000e-01
115	VPW000004	-0.2306	0.1600	0.0663	1.0617e-01	8.1000e-01
116	VPW000005	-0.3153	0.2706	-0.0302	1.1975e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0438	1.2478e-01	8.1000e-01
118	IPW000001	10.1147	14.0194	11.2861	1.3062e+00	8.1005e+00
119	IPW000002	-16.0098	-10.1560	-13.5512	1.3548e+00	8.1007e+00
120	IPW000003	-15.6468	-9.7968	-13.1898	1.3539e+00	8.1007e+00
121	IPW000004	1.9414	2.4297	2.0977	2.3008e-01	2.0001e+00
122	IPW000005	-0.3000	0.6765	0.3543	2.7210e-01	2.0000e+00
123	IPW000006	8.7891	10.2539	9.5020	3.7186e-01	2.0014e+00
124	EMPTY	-0.0293	-0.0098	-0.0207	4.2499e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0183	3.3901e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0162	3.3366e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1908	9.8648e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1558	1.1578e-01	4.1000e+00
130	IHT000003	-0.3294	-0.1341	-0.2747	8.8585e-02	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1120	8.8321e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	0.0034	1.0440e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0995	7.1136e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1630	9.0756e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1092	8.6541e-02	4.1000e+00
138	IHT000011	-0.2753	-0.0800	-0.1112	7.2330e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1644	9.3043e-02	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0405	9.3461e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1287	8.2393e-02	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1345	1.0595e-01	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1473	6.8459e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0117	2.2808e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3769	1.1327e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0244	6.6498e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1034	5.5804e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3608	7.3716e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1358	7.1136e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2267	9.0412e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0891	1.0617e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0547	9.6976e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1289	9.3461e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	-0.0084	9.6655e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1084	9.3043e-02	4.1000e+00
157	IHT000030	-0.0600	0.3106	0.0958	8.1347e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.0833	9.6735e-02	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3677	8.1729e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0333	1.2534e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1009	1.1327e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0127	9.6735e-02	4.1000e+00

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Velocity 1 = 4.0386 (ft/sec) (+/- 10.7687 %)
 Velocity 2 = 3.7191 (ft/sec) (+/- 5.5607 %)
 Pressure drop = -4.5723 (psi)
 Tsat in = 240.5737 (deg F) Tsat out = 249.5493 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 10366.9766 %)
 Phi outer = -0.0001 (kBtu/hr-ft2) (+/- 1893.9639 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	74.8213	74.6343	1.6978e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.2269	1.1106e-01	1.9000e+00
2	TRF0000001	86.5565	87.3949	87.0386	1.9853e-01	1.9002e+00
3	TIM0000001	87.0461	87.7812	87.4074	1.3609e-01	1.9002e+00
4	TRV0000001	86.6297	87.3626	87.0150	1.6974e-01	1.9002e+00
5	TSR0000001	87.3472	87.9755	87.6783	1.2392e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TNO050136	86.0329	87.0795	86.6525	2.0693e-01	1.9002e+00
8	TNO070136	87.6338	88.5801	88.0208	1.9051e-01	1.9002e+00
9	TNO080136	87.3188	87.9467	87.6247	1.4473e-01	1.9002e+00
10	TNO090136	87.0887	87.9260	87.4235	1.7695e-01	1.9002e+00
11	TNO100136	87.2945	87.9235	87.6216	1.4775e-01	1.9002e+00
12	TNO105136	87.5467	88.3857	87.9117	1.8381e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.0874	1.2433e-01	1.9011e+00
14	TNO115136	86.6499	87.4914	87.1754	2.1985e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5559	6.3038e-02	1.9009e+00
16	TNO125136	87.1915	87.7154	87.4723	1.3624e-01	1.9002e+00
17	TNO130136	87.1468	87.6683	87.3601	1.2097e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2707	1.0152e-01	1.9011e+00
19	TNO130048	87.0474	87.5714	87.3826	1.2164e-01	1.9002e+00
20	TNO120224	86.8520	87.4812	87.1373	1.3247e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8846	1.4684e-01	1.9010e+00
22	TNO120312	87.0260	87.6558	87.3577	1.4280e-01	1.9002e+00
23	TNO130312	86.6110	87.2399	86.9758	1.4242e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.2980	1.7732e-01	1.9010e+00
25	TRT070000	87.0277	87.5539	87.2888	1.4929e-01	1.9002e+00
26	TRT100000	87.5292	88.1574	87.8767	1.5313e-01	1.9002e+00
27	TRT120000	87.3342	87.8585	87.5902	1.5298e-01	1.9002e+00
28	TRT125000	87.3139	87.9405	87.6234	1.6340e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5919	9.7394e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7158	1.8687e-01	1.9011e+00
31	TAF050136	87.2690	87.8970	87.5707	1.6058e-01	1.9002e+00
32	TAF070136	87.7618	88.8041	88.2534	2.1597e-01	1.9002e+00
33	TAF080136	87.1631	87.7892	87.5806	1.4153e-01	1.9002e+00
34	TAF090136	87.4415	88.5933	87.9525	2.7060e-01	1.9002e+00
35	TAF100136	87.0003	87.7351	87.3867	1.7544e-01	1.9002e+00
36	TAF105136	87.1734	88.1122	87.6201	2.1358e-01	1.9002e+00
37	TAF110136	87.0669	87.5907	87.3894	1.3683e-01	1.9002e+00
38	TAF115136	87.5334	88.2668	87.8730	1.7765e-01	1.9002e+00
39	TAF120136	87.2101	87.8383	87.5954	1.5738e-01	1.9002e+00
40	TAF125136	87.4844	88.1121	87.7861	1.4123e-01	1.9002e+00
41	TAF130136	87.2848	87.8091	87.5784	1.4055e-01	1.9002e+00
42	TAF120048	87.5040	88.3470	87.9132	1.9239e-01	1.9002e+00
43	TAF130048	87.1035	87.6281	87.3678	1.1470e-01	1.9002e+00
44	TAF120224	87.3233	87.9524	87.6672	1.8340e-01	1.9002e+00
45	TAF130224	86.8476	87.3735	87.1001	1.2926e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0066	2.2260e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1694	1.0631e-01	1.9010e+00
48	TAL130048	87.1947	88.3481	87.7820	2.8969e-01	1.9002e+00
49	TAL130136	86.8228	87.6600	87.2121	1.9135e-01	1.9002e+00
50	TAL130224	87.2684	88.2141	87.7391	2.7778e-01	1.9002e+00
51	TAL130312	86.7755	87.5105	87.1997	1.5728e-01	1.9002e+00
52	TBR130000	86.5495	87.3860	86.9261	1.9379e-01	1.9002e+00
53	TSI0000001	79.7244	80.3565	80.0487	1.6062e-01	1.9001e+00
54	TSI0000002	70.6176	71.6788	71.1656	2.6207e-01	1.9000e+00
55	TSO0000001	67.4465	68.4093	67.9473	1.8763e-01	1.9000e+00
56	TSO0000002	79.5789	80.4233	80.0391	1.8189e-01	1.9001e+00
57	TAP020136	86.8759	87.4034	87.1838	1.6047e-01	1.9002e+00
58	TAP120312	74.6392	75.6986	75.1816	2.5467e-01	1.9000e+00
59	TAP130312	86.6157	87.2451	86.9556	1.7152e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4809	2.4642e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4954	2.4583e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5083	1.4797e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5260	2.2146e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3273	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3469	9.6655e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3652	1.9730e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3814	1.6028e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4152	9.6655e-04	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5217	1.8082e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5365	1.6028e-03	0.0000e+00
77	EMPTY	0.5469	0.5566	0.5557	2.2058e-03	0.0000e+00
78	EMPTY	0.5713	0.5811	0.5767	1.7784e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6008	9.6655e-04	0.0000e+00
80	PAN020136	-16.1478	-15.9189	-16.0319	6.9345e-02	8.7092e-01
81	PAN050136	-30.3306	-29.8729	-30.1720	1.2316e-01	1.6817e+00
82	PAN070136	-20.1296	-19.9770	-20.0289	4.2043e-02	8.7144e-01
83	PAN080136	-10.4316	-10.2027	-10.3583	7.3857e-02	8.7039e-01
84	PAN090136	-10.1175	-9.8886	-9.9604	5.8511e-02	8.7036e-01
85	PAN100136	-10.0838	-9.8549	-9.9496	7.6387e-02	8.7036e-01
86	PAN105136	-4.8791	-4.6502	-4.7524	6.4682e-02	8.7008e-01
87	PAN110136	-5.1959	-4.9671	-5.1212	6.9771e-02	8.7009e-01
88	PAN115136	-4.6956	-4.4667	-4.5781	5.3860e-02	8.7008e-01
89	PAN120136	-5.6390	-5.4101	-5.5383	5.6508e-02	8.7011e-01
90	PAN125136	-5.1124	-4.9598	-5.0193	5.1791e-02	8.7009e-01
91	PAN130136	-5.1432	-4.9143	-5.0638	5.5489e-02	8.7009e-01
92	PAN120048	-11.0199	-10.7910	-10.9131	6.3552e-02	8.7043e-01
93	PAN130048	-10.2951	-9.9899	-10.1776	6.9293e-02	8.7037e-01
94	PAN120224	-10.1690	-9.9401	-10.0439	5.7176e-02	8.7036e-01
95	PAN130224	-10.2702	-10.0413	-10.1664	4.8154e-02	8.7037e-01
96	PAN120312	-10.0721	-9.8432	-9.9805	5.5575e-02	8.7036e-01
97	PAN130312	-10.3200	-10.0148	-10.1873	6.6850e-02	8.7037e-01
98	PAB000136	25.1832	25.3205	25.2564	3.4604e-02	5.8343e-01
99	PAB100136	28.5284	28.6657	28.5907	4.0057e-02	5.8439e-01
100	PAB125136	29.4870	29.6243	29.5382	3.9928e-02	5.8468e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.8830	25.0050	24.9879	4.2787e-02	7.5260e-01
102	PRV000001	20.4157	20.5377	20.4352	4.5206e-02	7.5174e-01
103	PSR000001	29.7189	29.8409	29.8336	2.9284e-02	7.5370e-01
104	PFH000001	2.2748	2.6410	2.4524	6.5159e-02	5.0004e-01
105	PAN000136	-126.6237	-126.1660	-126.5871	1.2545e-01	4.9302e+00
106	PFH000002	1.8622	2.2817	2.0716	9.6734e-02	2.0007e-01
107	EMPTY	-0.0049	0.0049	-0.0032	2.7213e-03	0.0000e+00
108	EMPTY	-10.0000	-9.8779	-9.9960	2.0305e-02	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0004	1.3381e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0636	8.2864e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0125	7.8523e-02	8.1000e-01
114	VPW000003	-0.0400	0.3506	0.0264	1.0145e-01	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0702	1.0595e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	0.0206	1.1189e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	0.0031	1.0410e-01	8.1000e-01
118	IPW000001	-1.5994	6.2100	1.3682	1.4884e+00	8.1000e+00
119	IPW000002	-0.3996	5.4542	2.6834	1.1213e+00	8.1000e+00
120	IPW000003	-3.9468	1.9032	-0.9048	1.3161e+00	8.1000e+00
121	IPW000004	-2.4531	-1.4766	-2.0820	2.3261e-01	2.0001e+00
122	IPW000005	-0.3000	0.6765	0.0613	2.3776e-01	2.0000e+00
123	IPW000006	-4.8828	-1.9531	-3.5254	7.9710e-01	2.0002e+00
124	EMPTY	-0.0293	-0.0098	-0.0203	3.7382e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	3.1644e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0173	3.8473e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0154	3.0180e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1634	1.0559e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1597	1.0259e-01	4.1000e+00
130	IHT000003	-0.3294	0.1341	-0.2630	9.3461e-02	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1609	7.8918e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1238	8.8233e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0200	1.0763e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1073	7.9017e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1786	9.0412e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1883	6.1257e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1170	8.1729e-02	4.1000e+00
138	IHT000011	-0.2753	0.3106	-0.0995	9.0412e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1722	1.0470e-01	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0366	1.0014e-01	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1131	9.3043e-02	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1384	1.0617e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1356	7.7324e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0273	2.3012e-01	4.1000e+00
145	IHT000018	0.0800	0.6659	0.3730	1.1334e-01	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0088	7.2330e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0839	7.1136e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3569	6.7888e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1708	9.5112e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1397	6.6498e-02	4.1000e+00
151	IHT000024	-0.4806	-0.0900	-0.2150	1.0259e-01	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0930	9.8648e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0469	8.4262e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1211	9.5765e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0345	1.0052e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1514	9.2456e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1231	6.7888e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1067	1.0052e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0820	9.7377e-02	4.1000e+00
160	IHT000033	37.3247	37.7153	37.3989	1.0358e-01	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0411	1.1084e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1127	1.1975e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0283	9.9902e-02	4.1000e+00

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Velocity 1 - 2.0854 (ft/sec) (+/- 40.0317 %)
 Velocity 2 - 1.3683 (ft/sec) (+/- 35.0447 %)
 Pressure drop - -5.1854 (psi)
 Tsat in - 239.2796 (deg F) Tsat out - 249.6068 (deg F)
 Phi inner - -0.0007 (kBtu/hr-ft2) (+/- 1553.0168 %)
 Phi outer - -0.0003 (kBtu/hr-ft2) (+/- 202.7961 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRP000001	74.3963	74.8213	74.5876	1.5026e-01	1.9000e+00
1	TRP000002	74.9393	75.3622	75.2099	1.2112e-01	1.9000e+00
2	TRP000001	86.6611	87.3944	87.0448	1.8887e-01	1.9002e+00
3	TIN000001	86.8360	87.7812	87.2877	2.1033e-01	1.9002e+00
4	TRV000001	86.0026	87.5715	86.7495	3.3920e-01	1.9002e+00
5	TSR000001	86.8255	87.9755	87.3169	3.1602e-01	1.9002e+00
6	EMPTY	601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.1376	87.0795	86.6294	1.9635e-01	1.9002e+00
8	TAO070136	87.6338	88.3697	88.0272	1.7873e-01	1.9002e+00
9	TAO080136	87.3188	87.8420	87.6015	1.2724e-01	1.9002e+00
10	TAO090136	87.0881	87.9260	87.3962	1.7502e-01	1.9002e+00
11	TAO100136	87.2945	87.9235	87.6027	1.3791e-01	1.9002e+00
12	TAO105136	87.4415	88.2811	87.8969	2.0935e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0965	1.1576e-01	1.9011e+00
14	TAO115136	86.7546	87.4907	87.1355	2.0039e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5605	6.9708e-02	1.9010e+00
16	TAO125136	87.0868	87.7154	87.4534	1.4392e-01	1.9002e+00
17	TAO130136	87.0421	87.5636	87.3286	1.4093e-01	1.9002e+00
18	EMPTY	40.9819	41.4403	41.2845	1.2627e-01	1.9011e+00
19	TAO130048	86.9427	87.5714	87.2466	1.5291e-01	1.9002e+00
20	TAO120224	86.8520	87.4812	87.1351	1.5888e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9076	1.4647e-01	1.9010e+00
22	TAO120312	87.0260	87.7604	87.3220	1.7435e-01	1.9002e+00
23	TAO130312	86.6110	87.4489	86.8607	1.5398e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3347	1.7164e-01	1.9010e+00
25	TRT070000	86.9230	87.5539	87.2615	1.6920e-01	1.9002e+00
26	TRT100000	87.4246	88.1574	87.8494	1.9186e-01	1.9002e+00
27	TRT120000	87.2299	87.8585	87.5587	1.6675e-01	1.9002e+00
28	TRT125000	87.2093	87.8370	87.6044	1.7049e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5735	1.0381e-01	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6929	2.0681e-01	1.9011e+00
31	TAP050136	87.2690	88.0016	87.6060	1.7075e-01	1.9002e+00
32	TAP070136	87.7603	88.5960	88.2678	1.8621e-01	1.9002e+00
33	TAP080136	87.1631	87.8939	87.5532	1.5904e-01	1.9002e+00
34	TAP090136	87.4411	88.3841	87.9461	2.3529e-01	1.9002e+00
35	TAP100136	87.2103	87.7351	87.4140	1.4439e-01	1.9002e+00
36	TAP105136	87.1734	88.1122	87.6509	2.4570e-01	1.9002e+00
37	TAP110136	87.0669	87.6943	87.3829	1.5030e-01	1.9002e+00
38	TAP115136	87.5334	88.2668	87.9252	1.8536e-01	1.9002e+00
39	TAP120136	87.2101	87.8383	87.5722	1.4827e-01	1.9002e+00
40	TAP125136	87.4844	88.1121	87.7962	1.5001e-01	1.9002e+00
41	TAP130136	87.2848	87.9137	87.5804	1.6360e-01	1.9002e+00
42	TAP120048	87.2942	88.3483	87.9450	2.4049e-01	1.9002e+00
43	TAP130048	87.1035	87.7328	87.3531	1.3219e-01	1.9002e+00
44	TAP120224	87.3233	88.1618	87.6525	1.9636e-01	1.9002e+00
45	TAP130224	86.7429	87.3735	87.0517	1.3843e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1491	2.3960e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2383	1.1364e-01	1.9010e+00
48	TAI130048	87.2998	88.3481	87.7547	2.8855e-01	1.9002e+00
49	TAI130136	86.7180	87.6600	87.2015	1.9249e-01	1.9002e+00
50	TAI130224	87.2684	88.2137	87.7328	2.6178e-01	1.9002e+00
51	TAI130312	86.8802	87.5105	87.1724	1.6875e-01	1.9002e+00
52	TR130000	86.5495	87.3868	87.0117	2.0296e-01	1.9002e+00
53	TS1000001	79.7239	80.3565	80.0549	1.5654e-01	1.9001e+00
54	TS1000002	70.8298	71.8908	71.2567	2.6475e-01	1.9000e+00
55	TS0000001	67.5545	68.4093	67.9967	1.8834e-01	1.9000e+00
56	TS0000002	79.8954	80.6343	80.1805	1.8123e-01	1.9001e+00
57	TAF020136	86.7707	87.7192	87.2199	2.0056e-01	1.9002e+00
58	TAF120312	74.7454	75.8042	75.2303	2.6204e-01	1.9000e+00
59	TAF130312	86.6157	87.2451	86.8990	1.8003e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4805	2.4164e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4955	2.4642e-03	0.0000e+00
62	EMPTY	0.5029	0.5127	0.5089	2.2689e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5263	2.0432e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3272	6.9053e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3468	6.9053e-04	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3656	1.6028e-03	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3817	1.8950e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4541	0.4541	0.0000e+00	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5218	1.7115e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5365	1.6028e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5555	2.1065e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5767	1.4797e-03	0.0000e+00
79	EMPTY	0.6006	0.6006	0.6006	0.0000e+00	0.0000e+00
80	PAN020136	-18.2078	-17.9789	-18.1208	6.5413e-02	8.7118e-01
81	PAN050136	-34.2979	-33.9928	-34.1789	1.0807e-01	1.6822e+00
82	PAN070136	-22.9524	-22.7236	-22.8304	6.1655e-02	8.7187e-01
83	PAN080136	-11.7286	-11.4997	-11.6050	5.5339e-02	8.7048e-01
84	PAN090136	-11.4145	-11.1856	-11.2909	7.0449e-02	8.7046e-01
85	PAN100136	-11.4571	-11.1519	-11.3259	6.9001e-02	8.7046e-01
86	PAN105136	-5.7183	-5.4894	-5.5749	7.0026e-02	8.7011e-01
87	PAN110136	-5.9589	-5.7300	-5.8536	5.3149e-02	8.7012e-01
88	PAN115136	-5.4585	-5.1534	-5.2922	6.8396e-02	8.7010e-01
89	PAN120136	-6.2494	-6.0205	-6.1471	7.1653e-02	8.7014e-01
90	PAN125136	-5.7990	-5.5702	-5.6602	6.2970e-02	8.7012e-01
91	PAN130136	-5.7535	-5.6009	-5.6742	5.1028e-02	8.7012e-01
92	PAN120048	-12.0880	-11.9354	-12.0010	5.1145e-02	8.7052e-01
93	PAN130048	-11.5921	-11.3632	-11.4548	7.8595e-02	8.7047e-01
94	PAN120224	-11.5423	-11.3134	-11.4004	7.8610e-02	8.7047e-01
95	PAN130224	-11.4909	-11.3383	-11.3962	5.2407e-02	8.7047e-01
96	PAN120312	-11.5217	-11.2165	-11.3431	8.2445e-02	8.7046e-01
97	PAN130312	-11.5407	-11.3118	-11.3912	6.5322e-02	8.7047e-01
98	PAB000136	24.5881	24.7712	24.6842	4.1617e-02	5.8327e-01
99	PAB100136	28.4368	28.5742	28.5009	3.5818e-02	5.8436e-01
100	PAB125136	29.4870	29.6701	29.5675	3.9843e-02	5.8469e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.2726	24.3947	24.3410	6.1209e-02	7.5246e-01
102	PRV000001	20.4157	20.4157	20.4157	7.7069e-06	7.5173e-01
103	PSR000001	29.8409	29.9630	29.9288	5.5366e-02	7.5372e-01
104	PTH000001	0.5353	0.7184	0.6269	6.1346e-02	5.0000e-01
105	PAN000136	-144.0187	-143.1032	-143.5610	9.2482e-02	4.9331e+00
106	PTH000002	0.1507	0.3353	0.2581	4.2477e-02	2.0000e-01
107	BNPT	-0.0049	0.0049	-0.0040	2.1364e-03	0.0000e+00
108	BNPT	-10.0000	-9.5361	-9.9786	8.2351e-02	0.0000e+00
109	BNPT	-0.0049	0.0049	-0.0004	1.6624e-03	0.0000e+00
110	BNPT	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	BNPT	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPM000001	-0.2706	0.1200	-0.0792	7.3716e-02	8.1000e-01
113	VPM000002	-0.2000	0.1906	-0.0203	6.6498e-02	8.1000e-01
114	VPM000003	-0.0400	0.1553	0.0498	9.8332e-02	8.1000e-01
115	VPM000004	-0.2306	0.3553	0.0897	1.0992e-01	8.1000e-01
116	VPM000005	-0.1200	0.0753	0.0245	8.6541e-02	8.1000e-01
117	VPM000006	-0.2000	0.1906	-0.0555	1.1027e-01	8.1000e-01
118	IPM000001	14.0194	17.9241	15.1518	1.0503e+00	8.1009e+00
119	IPM000002	-16.0098	-12.1072	-14.4097	1.3478e+00	8.1008e+00
120	IPM000003	-21.4968	-15.6468	-18.2208	1.2729e+00	8.1013e+00
121	IPM000004	0.9648	1.9414	1.7168	2.6488e-01	2.0000e+00
122	IPM000005	0.1883	1.6530	0.8620	3.2550e-01	2.0000e+00
123	IPM000006	12.2070	13.6719	12.8418	3.7239e-01	2.0026e+00
124	BNPT	-0.0293	-0.0146	-0.0212	3.3613e-03	0.0000e+00
125	BNPT	-0.0195	-0.0098	-0.0142	2.6562e-03	0.0000e+00
126	BNPT	-0.0244	-0.0098	-0.0171	3.1583e-03	0.0000e+00
127	BNPT	-0.0244	-0.0098	-0.0162	3.0309e-03	0.0000e+00
128	INT000001	-0.2494	0.1412	-0.1869	1.0014e-01	4.1000e+00
129	INT000002	-0.2847	0.1059	-0.1636	1.0358e-01	4.1000e+00
130	INT000003	-0.5247	0.0613	-0.2747	1.0470e-01	4.1000e+00
131	INT000004	-0.2000	-0.0047	-0.1766	6.4113e-02	4.1000e+00
132	INT000005	-0.2800	-0.0847	-0.1433	9.0412e-02	4.1000e+00
133	INT000006	-0.1528	0.2378	-0.0044	1.0106e-01	4.1000e+00
134	INT000007	-0.2753	0.1153	-0.0995	7.1136e-02	4.1000e+00
135	INT000008	-0.3153	-0.1200	-0.1825	9.2034e-02	4.1000e+00
136	INT000009	-0.3953	-0.0047	-0.1727	7.9017e-02	4.1000e+00
137	INT000010	-0.1600	0.0353	-0.1092	8.6541e-02	4.1000e+00
138	INT000011	-0.2753	0.1153	-0.1112	8.2393e-02	4.1000e+00
139	INT000012	-0.3128	0.0778	-0.1761	1.0625e-01	4.1000e+00
140	INT000013	-0.1694	0.0259	-0.0327	9.0412e-02	4.1000e+00
141	INT000014	-0.3553	0.0353	-0.1366	7.5283e-02	4.1000e+00
142	INT000015	-0.2400	-0.0447	-0.1541	9.7935e-02	4.1000e+00
143	INT000016	-0.3153	0.0753	-0.1239	6.2265e-02	4.1000e+00
144	INT000017	-0.3906	0.3906	0.0469	2.3530e-01	4.1000e+00
145	INT000018	0.2753	0.4706	0.3925	9.6655e-02	4.1000e+00
146	INT000019	-0.2353	0.1553	-0.0205	7.1136e-02	4.1000e+00
147	INT000020	-0.2988	0.0919	-0.1112	8.7880e-02	4.1000e+00
148	INT000021	3.1694	3.5600	3.3373	9.6735e-02	4.1001e+00
149	INT000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	INT000023	-0.1553	0.0400	-0.1123	8.1729e-02	4.1000e+00
151	INT000024	-0.2853	-0.0900	-0.2306	8.8585e-02	4.1000e+00
152	INT000025	-0.0047	0.1906	0.0773	9.7377e-02	4.1000e+00
153	INT000026	-0.1953	0.1953	-0.0742	1.0358e-01	4.1000e+00
154	INT000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	INT000028	-0.1647	0.2259	0.0267	9.2456e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.0400	0.3506	0.1202	9.4125e-02	4.1000e+00
157	INT000030	-0.0800	0.3106	0.1153	7.8918e-02	4.1000e+00
158	INT000031	-0.0847	0.3059	0.0598	9.5112e-02	4.1000e+00
159	INT000032	-0.1953	0.3906	0.0273	8.8321e-02	4.1000e+00
160	INT000033	37.3247	37.5200	37.3716	8.4262e-02	4.1170e+00
161	INT000034	-0.2753	0.1153	0.0333	1.0507e-01	4.1000e+00
162	INT000035	-0.1881	0.2025	0.0658	9.8648e-02	4.1000e+00
163	INT000036	-0.2353	0.1553	-0.0244	7.7324e-02	4.1000e+00

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Velocity 1 - 11.0529 (ft/sec) (+/- 3.7142 %)
 Velocity 2 - 10.9431 (ft/sec) (+/- 3.5048 %)
 Pressure drop - -0.0068 (psi)
 Tsat in - 251.3854 (deg F) Tsat out - 251.1649 (deg F)
 Phi inner - -0.0004 (kBtu/hr-ft2) (+/- 2129.3435 %)
 Phi outer - -0.0003 (kBtu/hr-ft2) (+/- 1807.5702 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRP000001	74.3963	75.0338	74.5833	1.9026e-01	1.9000e+00
1	TRP000002	74.9393	75.3622	75.2100	1.1333e-01	1.9000e+00
2	TRP000003	86.5565	87.1856	86.9087	1.7303e-01	1.9002e+00
3	TIN000001	86.9411	87.5712	87.2142	1.4853e-01	1.9002e+00
4	TRV000001	86.6297	87.3626	87.0483	1.9253e-01	1.9002e+00
5	TSR000001	87.2431	87.9755	87.5863	1.4660e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TRO050136	86.1376	87.0795	86.5103	2.0306e-01	1.9002e+00
8	TRO070136	87.4232	88.3697	87.8651	2.2486e-01	1.9002e+00
9	TRO080136	87.1104	87.8435	87.4702	1.6669e-01	1.9002e+00
10	TRO090136	86.9835	87.6129	87.2644	1.8383e-01	1.9002e+00
11	TRO100136	87.1896	87.9235	87.4833	1.7601e-01	1.9002e+00
12	TRO105136	87.4415	88.2811	87.8109	2.0467e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1240	1.3805e-01	1.9011e+00
14	TRO115136	86.6487	87.4907	87.0154	2.2216e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5650	7.5509e-02	1.9010e+00
16	TRO125136	86.8776	87.7154	87.3133	1.7115e-01	1.9002e+00
17	TRO130136	86.9402	87.5669	87.2645	1.4239e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2707	1.0152e-01	1.9011e+00
19	TRO130048	87.0474	87.6765	87.2908	1.7581e-01	1.9002e+00
20	TRO120224	86.7471	87.3769	87.0366	1.3505e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8984	1.0211e-01	1.9010e+00
22	TRO120312	87.0260	87.5508	87.2276	1.5121e-01	1.9002e+00
23	TRO130312	86.7157	87.2399	86.8962	1.5998e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.2888	2.0689e-01	1.9010e+00
25	TRT070000	86.8165	87.4479	87.1369	1.3088e-01	1.9002e+00
26	TRT100000	87.2155	88.1574	87.7763	1.8772e-01	1.9002e+00
27	TRT120000	87.1248	87.8585	87.4854	1.8120e-01	1.9002e+00
28	TRT125000	87.1057	87.9421	87.4899	2.0068e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5781	9.9904e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7204	2.0067e-01	1.9011e+00
31	TAP050136	87.0602	87.8979	87.4619	1.6442e-01	1.9002e+00
32	TAP070136	87.6567	88.5960	88.0741	2.0338e-01	1.9002e+00
33	TAP080136	87.0584	87.6860	87.4014	1.5669e-01	1.9002e+00
34	TAP090136	87.2317	88.4891	87.8016	2.7034e-01	1.9002e+00
35	TAP100136	87.0003	87.5253	87.2314	1.4386e-01	1.9002e+00
36	TAP105136	86.9654	87.9043	87.4825	2.1663e-01	1.9002e+00
37	TAP110136	86.9622	87.6947	87.2597	1.6159e-01	1.9002e+00
38	TAP115136	87.3241	88.1627	87.8268	1.9276e-01	1.9002e+00
39	TAP120136	87.1062	87.7349	87.4325	1.2653e-01	1.9002e+00
40	TAP125136	87.3808	88.0090	87.6525	1.4647e-01	1.9002e+00
41	TAP130136	87.0754	87.7044	87.4903	1.1985e-01	1.9002e+00
42	TAP120048	87.3988	88.2424	87.7740	2.4285e-01	1.9002e+00
43	TAP130048	86.9985	87.5232	87.2587	1.3938e-01	1.9002e+00
44	TAP120224	87.2185	88.0572	87.5163	1.8872e-01	1.9002e+00
45	TAP130224	86.7429	87.2678	86.9695	1.1884e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0664	2.0904e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1327	9.7440e-02	1.9010e+00
48	TAP130048	86.9854	88.1385	87.5975	2.7811e-01	1.9002e+00
49	TAP130136	86.5090	87.4511	87.0406	2.2364e-01	1.9002e+00
50	TAP130224	87.1628	88.1091	87.6634	2.6647e-01	1.9002e+00
51	TAP130312	86.7755	87.5105	87.0611	1.8812e-01	1.9002e+00
52	TAP130000	86.4443	87.2817	86.8214	2.2091e-01	1.9002e+00
53	TAP130000	79.8292	80.3565	80.0107	1.2969e-01	1.9001e+00
54	TAP130000	78.6176	71.5733	71.1315	2.5313e-01	1.9000e+00
55	TAP130000	67.5545	68.5161	67.9560	2.2098e-01	1.9000e+00
56	TAP130000	79.8954	80.7400	80.3177	1.9663e-01	1.9001e+00
57	TAP120136	86.6647	87.2983	87.0193	1.6997e-01	1.9002e+00
58	TAP120312	74.5334	75.5926	75.1477	2.5586e-01	1.9000e+00
59	TAP130312	86.5110	87.2451	86.8173	1.5554e-01	1.9002e+00
60	EMPTY	0.4736	0.4834	0.4782	2.0716e-03	0.0000e+00
61	EMPTY	0.4883	0.4980	0.4932	1.3951e-03	0.0000e+00
62	EMPTY	0.5829	0.5078	0.5072	1.6828e-03	0.0000e+00
63	EMPTY	0.5176	0.5273	0.5227	1.3811e-03	0.0000e+00
64	EMPTY	0.3223	0.3320	0.3273	1.3811e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3479	2.1065e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3660	9.6655e-04	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3836	2.4484e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3958	1.1714e-03	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4303	1.6828e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4543	9.6655e-04	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4882	6.9053e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5224	6.9053e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5565	6.9053e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5796	2.2603e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6017	2.0412e-03	0.0000e+00
80	PAN020136	-0.9653	-0.3550	-0.6571	1.7092e-01	0.7000e-01
81	PAN050136	-0.7286	-0.1182	-0.4509	1.4604e-01	1.6000e+00
82	PAN070136	0.9276	1.2327	1.0893	0.5320e-02	0.7000e-01
83	PAN080136	-0.9711	-0.6660	-0.8170	7.9332e-02	0.7000e-01
84	PAN090136	-0.7134	-0.4282	-0.5804	0.4775e-02	0.7000e-01
85	PAN100136	-0.0893	0.1396	0.0190	7.5653e-02	0.7000e-01
86	PAN105136	1.3770	1.6822	1.5220	7.1054e-02	0.7001e-01
87	PAN110136	0.4498	0.7550	0.5719	7.7069e-02	0.7000e-01
88	PAN115136	0.4924	0.7213	0.5992	7.0634e-02	0.7000e-01
89	PAN120136	-1.1377	-0.9088	-0.9851	6.1655e-02	0.7000e-01
90	PAN125136	-0.5348	-0.3822	-0.4279	5.5575e-02	0.7000e-01
91	PAN130136	-0.7944	-0.4892	-0.6800	6.5847e-02	0.7000e-01
92	PAN120048	-1.1779	-0.8728	-1.0559	7.5511e-02	0.7000e-01
93	PAN130048	-1.0636	-0.7584	-0.9064	7.1321e-02	0.7000e-01
94	PAN120224	-0.2508	-0.0219	-0.1516	7.2706e-02	0.7000e-01
95	PAN130224	-1.1149	-0.8097	-0.9455	8.3419e-02	0.7000e-01
96	PAN120312	-0.2302	0.1513	-0.0440	6.6041e-02	0.7000e-01
97	PAN130312	-1.3173	-1.0884	-1.1708	6.5104e-02	0.7000e-01
98	PAN000136	30.4017	30.5848	30.4877	4.5907e-02	5.8495e-01
99	PAN100136	30.3137	30.4510	30.3759	3.3036e-02	5.8495e-01
100	PAN125136	30.3110	30.4483	30.3723	3.5350e-02	5.8495e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	30.1320	30.2541	30.1442	3.6993e-02	7.5378e-01
102	PRV000001	20.2936	20.4157	20.3644	6.0861e-02	7.5173e-01
103	PSR000001	29.8409	30.0851	29.9630	2.4662e-02	7.5373e-01
104	PFM000001	18.6628	19.2121	18.9118	1.4212e-01	5.0223e-01
105	PAN000136	-1.1965	0.6346	-0.1894	4.8855e-01	4.9208e+00
106	PFM000002	17.6856	19.2293	18.4550	3.0120e-01	2.0538e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-9.2383	-9.9116	1.9697e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPM000001	-0.2706	0.1200	-0.0636	7.2866e-02	8.1000e-01
113	VPM000002	-0.2000	0.1906	0.0031	8.7888e-02	8.1000e-01
114	VPM000003	-0.2353	0.1553	0.0106	9.8648e-02	8.1000e-01
115	VPM000004	-0.0353	0.3553	0.0741	1.0559e-01	8.1000e-01
116	VPM000005	-0.1200	0.0753	-0.0388	9.7377e-02	8.1000e-01
117	VPM000006	-0.2000	0.1906	-0.0672	1.2124e-01	8.1000e-01
118	IPM000001	8.1624	15.9717	11.5985	1.5559e+00	8.1005e+00
119	IPM000002	-10.1560	-2.3509	-5.6290	1.4980e+00	8.1001e+00
120	IPM000003	-17.5968	-11.7468	-14.8668	1.2458e+00	8.1009e+00
121	IPM000004	-1.4766	-0.0117	-0.7930	3.4173e-01	2.0000e+00
122	IPM000005	0.1883	1.1647	0.6374	2.9327e-01	2.0000e+00
123	IPM000006	8.3008	11.2305	9.9219	6.0658e-01	2.0015e+00
124	EMPTY	-0.0293	-0.0098	-0.0207	4.0144e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	3.2733e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	3.2718e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.4961e-03	0.0000e+00
128	INT000001	-0.4447	0.1412	-0.1634	1.1272e-01	4.1000e+00
129	INT000002	-0.2847	0.1059	-0.1050	1.1049e-01	4.1000e+00
130	INT000003	-0.3294	-0.1341	-0.2434	9.7935e-02	4.1000e+00
131	INT000004	-0.2000	0.1906	-0.1570	9.0756e-02	4.1000e+00
132	INT000005	-0.2800	0.1106	-0.0925	9.6332e-02	4.1000e+00
133	INT000006	-0.1528	0.2378	-0.0005	1.0654e-01	4.1000e+00
134	INT000007	-0.2753	0.1153	-0.0956	7.7324e-02	4.1000e+00
135	INT000008	-0.3153	-0.1200	-0.1708	8.6541e-02	4.1000e+00
136	INT000009	-0.3953	-0.0047	-0.1727	7.9017e-02	4.1000e+00
137	INT000010	-0.3553	0.0353	-0.1170	9.0756e-02	4.1000e+00
138	INT000011	-0.2753	0.1153	-0.1191	8.8233e-02	4.1000e+00
139	INT000012	-0.3128	0.0778	-0.1487	1.1409e-01	4.1000e+00
140	INT000013	-0.1694	0.2212	-0.0366	1.0763e-01	4.1000e+00
141	INT000014	-0.3553	0.2306	-0.1131	1.2200e-01	4.1000e+00
142	INT000015	-0.2400	0.1506	-0.1150	1.0992e-01	4.1000e+00
143	INT000016	-0.3153	0.0753	-0.1317	8.2864e-02	4.1000e+00
144	INT000017	-0.3906	0.5859	0.0117	2.2800e-01	4.1000e+00
145	INT000018	0.2753	0.6659	0.4120	1.0625e-01	4.1000e+00
146	INT000019	-0.2353	0.1553	-0.0244	6.6498e-02	4.1000e+00
147	INT000020	-0.2988	0.0919	-0.1034	8.8233e-02	4.1000e+00
148	INT000021	3.1694	3.5600	3.3334	8.2393e-02	4.1001e+00
149	INT000022	-0.3153	-0.1200	-0.1981	9.6655e-02	4.1000e+00
150	INT000023	-0.3506	0.0400	-0.1123	9.0756e-02	4.1000e+00
151	INT000024	-0.2853	-0.0900	-0.2306	8.8585e-02	4.1000e+00
152	INT000025	-0.0047	0.1906	0.0852	9.8332e-02	4.1000e+00
153	INT000026	-0.1953	0.1953	-0.0469	1.0106e-01	4.1000e+00
154	INT000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	INT000028	-0.1647	0.2259	0.0228	8.7888e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.0400	0.3506	0.1436	7.2866e-02	4.1000e+00
157	INT000030	-0.0000	0.3106	0.1231	6.7888e-02	4.1000e+00
158	INT000031	-0.0047	0.3059	0.0950	1.1049e-01	4.1000e+00
159	INT000032	0.0000	0.1953	0.0664	9.3461e-02	4.1000e+00
160	INT000033	37.3247	37.5200	37.3872	9.2034e-02	4.1178e+00
161	INT000034	-0.0000	0.3106	0.0645	9.5112e-02	4.1000e+00
162	INT000035	0.0072	0.3978	0.0931	1.1272e-01	4.1000e+00
163	INT000036	-0.0400	0.1553	0.0106	9.8412e-02	4.1000e+00

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Velocity 1 = 21.4164 (ft/sec) (+/- 3.4886 %)
 Velocity 2 = 13.2411 (ft/sec) (+/- 3.4867 %)
 Pressure drop = 13.1946 (psi)
 Tsat in = 274.8249 (deg F) Tsat out = 254.9330 (deg F)
 Phi inner = 0.0002 (kBtu/hr-ft2) (+/- 3105.1240 %)
 Phi outer = 0.0003 (kBtu/hr-ft2) (+/- 1744.3323 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.1838	74.8213	74.6046	1.7434e-01	1.9000e+00
1	TRF000002	75.1508	75.3622	75.2522	1.0670e-01	1.9000e+00
2	TRF000001	86.5565	87.4995	87.1110	2.1921e-01	1.9002e+00
3	TIM000001	87.1510	87.7812	87.4347	1.7653e-01	1.9002e+00
4	TRV000001	87.0476	87.7803	87.4098	2.0938e-01	1.9002e+00
5	TSR000001	87.3468	87.9755	87.7095	1.5857e-01	1.9002e+00
6	EMPTY	601.0594	601.0594	601.0591	3.6993e-04	2.1295e+00
7	TRO050136	86.3466	87.1835	86.7632	1.9548e-01	1.9002e+00
8	TRO070136	87.5283	88.4756	88.1281	1.8434e-01	1.9002e+00
9	TRO080136	87.4234	87.9467	87.7059	1.3573e-01	1.9002e+00
10	TRO090136	87.0876	87.9260	87.5210	1.9505e-01	1.9002e+00
11	TRO100136	87.3991	87.9235	87.7409	1.2682e-01	1.9002e+00
12	TRO105136	87.5462	88.3857	88.0018	2.1259e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.1057	1.1539e-01	1.9011e+00
14	TRO115136	86.7546	87.7012	87.2911	2.3783e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5801	9.6255e-02	1.9010e+00
16	TRO125136	87.2953	87.9244	87.5990	1.4854e-01	1.9002e+00
17	TRO130136	87.1468	87.8748	87.5314	1.6470e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2753	1.0392e-01	1.9011e+00
19	TRO130048	87.3602	87.7803	87.5894	1.3169e-01	1.9002e+00
20	TRO120224	86.8515	87.6907	87.2776	1.6335e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8754	1.2005e-01	1.9010e+00
22	TRO120312	87.1307	87.9701	87.4981	1.6858e-01	1.9002e+00
23	TRO130312	86.9248	87.4489	87.2036	1.5929e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3485	1.7132e-01	1.9010e+00
25	TRT070000	87.0277	87.7650	87.4175	1.8211e-01	1.9002e+00
26	TRT100000	87.5285	88.3663	87.9582	2.0635e-01	1.9002e+00
27	TRT120000	87.4385	88.0678	87.7136	1.4659e-01	1.9002e+00
28	TRT125000	87.4186	88.2532	87.7795	1.6633e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5689	9.6846e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.7434	1.9673e-01	1.9011e+00
31	TAF050136	87.4779	88.0016	87.7063	1.2817e-01	1.9002e+00
32	TAF070136	87.9680	88.8041	88.3803	1.9261e-01	1.9002e+00
33	TAF080136	87.3710	88.1017	87.6990	1.6212e-01	1.9002e+00
34	TAF090136	87.4411	88.4887	88.0424	2.7406e-01	1.9002e+00
35	TAF100136	87.1051	87.9456	87.5105	1.7363e-01	1.9002e+00
36	TAF105136	87.1734	88.3201	87.8092	2.4101e-01	1.9002e+00
37	TAF110136	87.2757	87.7994	87.5334	1.4985e-01	1.9002e+00
38	TAF115136	87.6386	88.4759	88.0968	2.0055e-01	1.9002e+00
39	TAF120136	87.4182	87.8383	87.6766	1.1265e-01	1.9002e+00
40	TAF125136	87.5890	88.2151	87.9463	1.4495e-01	1.9002e+00
41	TAF130136	87.4937	87.9137	87.7521	1.0856e-01	1.9002e+00
42	TAF120048	87.6100	88.5580	88.0587	2.3873e-01	1.9002e+00
43	TAF130048	87.3127	87.7328	87.5585	1.1733e-01	1.9002e+00
44	TAF120224	87.4280	88.1618	87.7489	1.7891e-01	1.9002e+00
45	TAF130224	86.9533	87.3735	87.2076	1.1446e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1767	2.2416e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3256	1.0670e-01	1.9010e+00
48	TAL130048	87.4044	88.5576	87.9685	2.5754e-01	1.9002e+00
49	TAL130136	86.9271	87.6600	87.2977	2.1381e-01	1.9002e+00
50	TAL130224	87.2684	88.4238	87.8882	2.9040e-01	1.9002e+00
51	TAL130312	86.8803	87.7203	87.3445	2.1325e-01	1.9002e+00
52	TAL130000	86.5483	87.5958	87.0913	2.2651e-01	1.9002e+00
53	TAL000001	79.8292	80.3565	80.0213	1.4563e-01	1.9001e+00
54	TAL000002	70.7237	71.7853	71.2567	2.5141e-01	1.9000e+00
55	TAL000001	67.7677	68.5167	68.1508	1.8466e-01	1.9000e+00
56	TAL000002	80.7395	81.5831	81.1762	2.1282e-01	1.9001e+00
57	TAF020136	86.9819	87.6145	87.2366	1.8196e-01	1.9002e+00
58	TAF120312	74.6392	75.6981	75.2091	2.3226e-01	1.9000e+00
59	TAF130312	86.7205	87.4545	87.0917	1.7752e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4839	1.4797e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4991	2.0432e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5126	6.9053e-04	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5287	2.2146e-03	0.0000e+00
64	EMPTY	0.3369	0.3369	0.3369	0.0000e+00	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3566	9.6655e-04	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3734	2.4642e-03	0.0000e+00
67	EMPTY	0.3906	0.3955	0.3907	6.9053e-04	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4054	6.9053e-04	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4244	1.3381e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4394	6.9053e-04	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4780	1.4797e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4964	2.3365e-03	0.0000e+00
74	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5278	1.4797e-03	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5425	1.4797e-03	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5621	1.6028e-03	0.0000e+00
78	EMPTY	0.5859	0.5908	0.5860	6.9053e-04	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6095	1.8950e-03	0.0000e+00
80	PAN020136	42.5985	46.7947	44.3853	7.8081e-01	8.7705e-01
81	PAN050136	84.7206	86.3991	85.4409	3.8508e-01	1.6935e+00
82	PAN070136	63.1071	64.4041	63.7236	2.6512e-01	8.8447e-01
83	PAN080136	27.1813	27.7154	27.4499	1.2160e-01	8.7270e-01
84	PAN090136	26.7324	27.4191	27.0910	1.5433e-01	8.7263e-01
85	PAN100136	28.0631	28.9787	28.5346	1.7955e-01	8.7292e-01
86	PAN105136	19.3824	19.9927	19.6937	1.4931e-01	8.7139e-01
87	PAN110136	16.7767	17.2345	16.9583	9.8563e-02	8.7103e-01
88	PAN115136	15.1408	15.9038	15.5589	1.8956e-01	8.7087e-01
89	PAN120136	11.1457	11.6797	11.3211	1.1663e-01	8.7046e-01
90	PAN125136	11.0619	11.6723	11.3152	1.3564e-01	8.7046e-01
91	PAN130136	11.3363	11.8704	11.6369	1.2655e-01	8.7049e-01
92	PAN120048	25.9064	26.5931	26.2452	1.4472e-01	8.7247e-01
93	PAN130048	24.4186	25.1053	24.7696	1.5944e-01	8.7220e-01
94	PAN120224	27.4439	28.0543	27.7125	1.4963e-01	8.7275e-01
95	PAN130224	24.2147	24.8251	24.5489	1.3428e-01	8.7216e-01
96	PAN120312	27.1593	27.6934	27.4416	1.2451e-01	8.7270e-01
97	PAN130312	23.4019	23.9360	23.6354	1.1881e-01	8.7200e-01
98	PAN000136	45.0959	45.4621	45.2817	9.8921e-02	5.9094e-01
99	PAN100136	34.9829	35.2117	35.0790	4.9155e-02	5.8659e-01
100	PAN125136	32.3251	32.5082	32.4002	4.5080e-02	5.8563e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	44.6584	45.3908	44.9684	1.5245e-01	7.5838e-01
102	PRV000001	20.4157	20.4157	20.4157	7.7069e-06	7.5173e-01
103	PSR000001	30.0851	30.2072	30.1071	4.7374e-02	7.5377e-01
104	PFH000001	70.6647	72.5873	71.5839	4.0098e-01	5.3106e-01
105	PAN000136	362.2679	368.2188	365.2982	1.8724e+00	5.0040e+00
106	PFH000002	27.2165	27.2165	27.2165	1.3487e-05	2.1126e-01
107	EMPTY	0.0049	0.0098	0.0080	2.3675e-03	0.0000e+00
108	EMPTY	-10.0000	-8.8184	-9.8043	2.7680e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0010	1.9730e-03	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0675	8.7880e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0086	8.3612e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0186	9.0412e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0506	1.0559e-01	8.1000e-01
116	VPW000005	-0.3153	0.2706	-0.0223	1.2001e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0359	1.1409e-01	8.1000e-01
118	IPW000001	-11.3611	-5.5040	-8.8621	1.2498e+00	8.1003e+00
119	IPW000002	-6.2534	-2.3509	-4.4973	1.1323e+00	8.1001e+00
120	IPW000003	7.7532	13.6032	10.5222	1.2514e+00	8.1004e+00
121	IPW000004	1.4531	2.4297	2.0195	2.2839e-01	2.0001e+00
122	IPW000005	-1.2764	-0.7882	-0.9737	2.3939e-01	2.0000e+00
123	IPW000006	-8.7891	-6.8359	-8.0078	4.8327e-01	2.0010e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.5582e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.9528e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0182	3.1257e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.7899e-03	0.0000e+00
128	IHT000001	-0.2494	0.1412	-0.1752	1.0358e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1402	9.5112e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2591	1.0259e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1648	7.5798e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1238	8.8233e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0122	1.1189e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1034	9.3710e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.0975	9.2034e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1073	7.9017e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1566	9.6655e-02	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0209	1.0106e-01	4.1000e+00
141	IHT000014	-0.1600	0.0353	-0.1131	8.4262e-02	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1345	1.0595e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1239	7.3716e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0430	2.5962e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3769	1.0617e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0361	4.8166e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1073	6.2265e-02	4.1000e+00
148	IHT000021	3.1694	3.3647	3.3373	6.8459e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1786	9.0412e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1202	7.5798e-02	4.1000e+00
151	IHT000024	-0.4806	0.1053	-0.2150	1.0992e-01	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0812	1.0559e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0664	1.0145e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1289	9.3461e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0384	1.0410e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1397	9.5357e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1270	8.2864e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1028	1.0410e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0859	9.7935e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.4145	9.8332e-02	4.1170e+00
161	IHT000034	-0.2753	0.3106	0.0645	1.2974e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1127	1.3211e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	0.0420	1.0507e-01	4.1000e+00

Velocity 1 = 7.0572 (ft/sec) (+/- 4.7714 %)
 Velocity 2 = 6.9438 (ft/sec) (+/- 3.6785 %)
 Pressure drop = -3.0356 (psi)
 Tsat in = 243.8195 (deg F) Tsat out = 249.5421 (deg F)
 Phi inner = -0.0005 (kBtu/hr-ft2) (+/- 1432.7872 %)
 Phi outer = -0.0003 (kBtu/hr-ft2) (+/- 1345.0460 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.3963	75.0338	74.7023	1.6154e-01	1.9000e+00
1	TRF000002	74.9393	75.5736	75.2564	1.2268e-01	1.9000e+00
2	TFM000001	86.9752	87.9180	87.3423	1.8352e-01	1.9002e+00
3	TIN000001	87.3614	87.9912	87.6658	1.5761e-01	1.9002e+00
4	TRV000001	86.9439	87.6756	87.3517	1.9281e-01	1.9002e+00
5	TSR000001	87.4519	87.9755	87.7683	1.4879e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.4507	87.2882	86.9724	1.9780e-01	1.9002e+00
8	TAO070136	87.9495	88.7906	88.3512	1.8109e-01	1.9002e+00
9	TAO080136	87.6318	88.2600	87.9646	1.5910e-01	1.9002e+00
10	TAO090136	87.2973	88.1351	87.7187	1.9790e-01	1.9002e+00
11	TAO100136	87.5040	88.3422	87.9631	1.7186e-01	1.9002e+00
12	TAO105136	87.7565	88.7004	88.2284	2.0458e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.0782	1.1427e-01	1.9011e+00
14	TAO115136	86.8605	87.9116	87.4763	2.6286e-01	1.9002e+00
15	EMPTY	37.3074	37.7675	37.5466	6.5065e-02	1.9009e+00
16	TAO125136	87.4005	88.0295	87.7882	1.4246e-01	1.9002e+00
17	TAO130136	87.3533	88.0812	87.7140	1.7380e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2891	1.0964e-01	1.9011e+00
19	TAO130048	87.3606	88.0942	87.7442	1.5919e-01	1.9002e+00
20	TAO120224	87.0615	87.7958	87.4747	1.7903e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8616	1.3579e-01	1.9010e+00
22	TAO120312	87.3408	88.0752	87.7038	1.6713e-01	1.9002e+00
23	TAO130312	87.0292	87.6579	87.3544	1.2218e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3623	1.7609e-01	1.9010e+00
25	TRT070000	87.2389	87.9761	87.6116	1.6763e-01	1.9002e+00
26	TRT100000	87.8426	88.5744	88.2134	1.7966e-01	1.9002e+00
27	TRT120000	87.5436	88.3822	87.9357	1.5822e-01	1.9002e+00
28	TRT125000	87.5221	88.3583	87.9465	1.9498e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6011	7.3182e-02	1.9011e+00
30	EMPTY	39.1464	40.0646	39.7066	2.4167e-01	1.9011e+00
31	TAF050136	87.5821	88.2104	87.9196	1.6955e-01	1.9002e+00
32	TAF070136	88.0731	89.0121	88.5598	2.1147e-01	1.9002e+00
33	TAF080136	87.4743	88.2068	87.8658	1.7384e-01	1.9002e+00
34	TAF090136	87.7553	88.8026	88.3189	2.3552e-01	1.9002e+00
35	TAF100136	87.2103	88.0501	87.7079	1.5839e-01	1.9002e+00
36	TAF105136	87.3815	88.5279	87.9179	2.5527e-01	1.9002e+00
37	TAF110136	87.3798	88.0081	87.7132	1.7274e-01	1.9002e+00
38	TAF115136	87.7427	88.7900	88.2727	2.0226e-01	1.9002e+00
39	TAF120136	87.6272	88.1518	87.9064	1.3813e-01	1.9002e+00
40	TAF125136	87.7972	88.4252	88.1341	1.4981e-01	1.9002e+00
41	TAF130136	87.4942	88.1230	87.9156	1.6331e-01	1.9002e+00
42	TAF130048	87.7165	88.7689	88.2822	2.4061e-01	1.9002e+00
43	TAF130048	87.4179	87.9424	87.6761	1.5600e-01	1.9002e+00
44	TAF120224	87.5332	88.2669	87.9292	1.8974e-01	1.9002e+00
45	TAF130224	86.9538	87.6895	87.4352	1.4257e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0710	2.0481e-01	1.9010e+00
47	EMPTY	38.9168	39.1464	39.1327	5.5101e-02	1.9010e+00
48	TAI130048	87.5095	88.6627	88.1196	2.6332e-01	1.9002e+00
49	TAI130136	87.1361	87.8688	87.5237	1.7590e-01	1.9002e+00
50	TAI130224	87.5837	88.6338	88.1067	2.7293e-01	1.9002e+00
51	TAI130312	87.0907	87.9302	87.5671	2.0360e-01	1.9002e+00
52	TTR130000	86.8627	87.8049	87.2965	2.1046e-01	1.9002e+00
53	TSI000001	79.7239	80.3565	80.0720	1.6120e-01	1.9001e+00
54	TSI000002	70.7237	71.7853	71.3672	2.9194e-01	1.9000e+00
55	TSO000001	67.6608	68.5161	68.1292	1.7262e-01	1.9000e+00
56	TSO000002	80.5290	81.3727	80.9570	2.3086e-01	1.9001e+00
57	TAP020136	87.0884	87.8256	87.4940	1.7660e-01	1.9002e+00
58	TAP120312	74.6392	75.6987	75.2643	2.3916e-01	1.9002e+00
59	TAP130312	86.9300	87.6638	87.2678	1.6982e-01	1.9002e+00
60	EMPTY	0.4834	0.4932	0.4869	2.4244e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.5026	1.1714e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5153	2.4583e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3314	1.6028e-03	0.0000e+00
65	EMPTY	0.3516	0.3516	0.3516	0.0000e+00	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3668	1.6028e-03	0.0000e+00
67	EMPTY	0.3857	0.3857	0.3857	0.0000e+00	0.0000e+00
68	EMPTY	0.3955	0.4004	0.4001	1.1714e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4186	2.2146e-03	0.0000e+00
70	EMPTY	0.4346	0.4346	0.4346	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4581	1.8950e-03	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4721	2.3008e-03	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4912	2.4164e-03	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5075	1.1714e-03	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5229	1.3381e-03	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5378	1.7115e-03	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5575	1.8950e-03	0.0000e+00
78	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6054	6.9053e-04	0.0000e+00
80	PAN020136	-11.1124	-10.8073	-10.9766	7.4386e-02	8.7043e-01
81	PAN050136	-20.5650	-19.9547	-20.2598	1.2331e-01	1.6808e+00
82	PAN070136	-13.1105	-12.8816	-13.0403	6.3253e-02	8.7061e-01
83	PAN080136	-7.3035	-7.0746	-7.1937	7.0903e-02	8.7019e-01
84	PAN090136	-6.9132	-6.6843	-6.7667	6.3253e-02	8.7016e-01
85	PAN100136	-6.7269	-6.4217	-6.5545	7.5212e-02	8.7015e-01
86	PAN105136	-2.6666	-2.4377	-2.6055	5.3395e-02	8.7002e-01
87	PAN110136	-3.2886	-3.1360	-3.2153	5.7590e-02	8.7004e-01
88	PAN115136	-2.9408	-2.7120	-2.8264	7.2706e-02	8.7003e-01
89	PAN120136	-4.0368	-3.8080	-3.9102	6.8257e-02	8.7005e-01
90	PAN125136	-3.6628	-3.3576	-3.5072	7.2231e-02	8.7004e-01
91	PAN130136	-3.6173	-3.3884	-3.5028	6.2135e-02	8.7004e-01
92	PAN130048	-7.6629	-7.3578	-7.5226	7.2886e-02	8.7020e-01
93	PAN130048	-7.1671	-6.8619	-7.0038	6.3571e-02	8.7018e-01
94	PAN120224	-6.8121	-6.6595	-6.7236	5.8410e-02	8.7016e-01
95	PAN130224	-7.1421	-6.9132	-7.0612	6.9635e-02	8.7018e-01
96	PAN120312	-6.7152	-6.4863	-6.6328	6.5104e-02	8.7016e-01
97	PAN130312	-7.1920	-6.9631	-7.0897	6.8257e-02	8.7018e-01
98	PAB000136	26.6480	26.8769	26.7395	5.9935e-02	5.8384e-01
99	PAB100136	28.8488	29.0319	28.9175	5.4908e-02	5.8449e-01
100	PAB125136	29.4412	29.6243	29.5346	4.7121e-02	5.8468e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	26.3478	26.5919	26.4161	7.0449e-02	7.5290e-01
102	PRV0000001	20.6598	20.7819	20.6647	2.4164e-02	7.5178e-01
103	PSR0000001	29.4747	29.7189	29.5846	5.6508e-02	7.5364e-01
104	PFM0000001	7.4018	7.8595	7.6361	1.0158e-01	5.0036e-01
105	PAN000136	-84.5095	-83.5939	-84.0426	2.5310e-01	4.9245e+00
106	PFM0000002	6.8794	7.8862	7.3895	2.2170e-01	2.0085e-01
107	EMPTY	-0.0049	0.0049	0.0007	3.9471e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4482	-9.9799	8.5475e-02	0.0000e+00
109	EMPTY	0.0000	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	VPW0000001	-0.2706	0.1200	-0.0753	9.6655e-02	8.1000e-01
113	VPW0000002	-0.2000	0.1906	0.0148	9.0412e-02	8.1000e-01
114	VPW0000003	-0.0400	0.3506	0.0498	1.0595e-01	8.1000e-01
115	VPW0000004	-0.2306	0.1600	0.0428	1.1161e-01	8.1000e-01
116	VPW0000005	-0.1200	0.0753	-0.0184	9.8569e-02	8.1000e-01
117	VPW0000006	-0.2000	0.1906	-0.0672	1.1464e-01	8.1000e-01
118	IPW0000001	8.1624	15.9717	10.7004	1.5403e+00	8.1004e+00
119	IPW0000002	-8.2047	1.5516	-2.2338	2.6565e+00	8.1000e+00
120	IPW0000003	-17.5968	-9.7968	-13.2678	2.3069e+00	8.1007e+00
121	IPW0000004	-2.9414	-0.5000	-1.9160	8.5003e-01	2.0001e+00
122	IPW0000005	0.1883	1.1647	0.5886	3.7805e-01	2.0000e+00
123	IPW0000006	6.8359	11.2305	8.3887	1.4820e+00	2.0011e+00
124	EMPTY	-0.0293	-0.0098	-0.0204	4.8014e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	3.1257e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0171	3.4527e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.0067e-03	0.0000e+00
128	IHT0000001	-0.4447	-0.0541	-0.1908	9.8648e-02	4.1000e+00
129	IHT0000002	-0.2847	0.1059	-0.1441	1.0470e-01	4.1000e+00
130	IHT0000003	-0.5247	0.0613	-0.2747	1.0470e-01	4.1000e+00
131	IHT0000004	-0.2000	-0.0047	-0.1570	8.1729e-02	4.1000e+00
132	IHT0000005	-0.2800	0.1106	-0.1120	1.0447e-01	4.1000e+00
133	IHT0000006	-0.1528	0.2378	-0.0005	1.0654e-01	4.1000e+00
134	IHT0000007	-0.2753	0.1153	-0.0956	8.6810e-02	4.1000e+00
135	IHT0000008	-0.3153	0.0753	-0.1708	9.5112e-02	4.1000e+00
136	IHT0000009	-0.3953	-0.0047	-0.1922	5.5243e-02	4.1000e+00
137	IHT0000010	-0.1600	0.0353	-0.1092	8.6541e-02	4.1000e+00
138	IHT0000011	-0.2753	0.1153	-0.0995	8.1347e-02	4.1000e+00
139	IHT0000012	-0.3128	0.0778	-0.1527	1.0206e-01	4.1000e+00
140	IHT0000013	-0.1694	0.0259	-0.0287	8.8585e-02	4.1000e+00
141	IHT0000014	-0.3553	0.0353	-0.1287	9.1354e-02	4.1000e+00
142	IHT0000015	-0.2400	0.1506	-0.1189	1.0358e-01	4.1000e+00
143	IHT0000016	-0.3153	-0.1200	-0.1356	5.3525e-02	4.1000e+00
144	IHT0000017	-0.3906	0.3906	0.0195	2.2058e-01	4.1000e+00
145	IHT0000018	0.2753	0.6659	0.4042	1.0145e-01	4.1000e+00
146	IHT0000019	-0.2353	0.1553	-0.0166	8.4997e-02	4.1000e+00
147	IHT0000020	-0.2988	0.0919	-0.0956	9.6332e-02	4.1000e+00
148	IHT0000021	3.1694	3.5600	3.3295	8.5454e-02	4.1001e+00
149	IHT0000022	-0.3153	-0.1200	-0.1786	9.0412e-02	4.1000e+00
150	IHT0000023	-0.1553	0.0400	-0.1202	7.5798e-02	4.1000e+00
151	IHT0000024	-0.2853	-0.0900	-0.2228	9.2034e-02	4.1000e+00
152	IHT0000025	-0.0047	0.1906	0.0969	9.8569e-02	4.1000e+00
153	IHT0000026	-0.1953	0.1953	-0.0703	1.0992e-01	4.1000e+00
154	IHT0000027	-0.1953	0.0000	-0.1367	9.0412e-02	4.1000e+00
155	IHT0000028	-0.1647	0.2259	0.0228	8.7880e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0400	0.3506	0.1280	7.9017e-02	4.1000e+00
157	IHT0000030	-0.0800	0.3106	0.1192	7.3716e-02	4.1000e+00
158	IHT0000031	-0.0847	0.3059	0.0950	9.5357e-02	4.1000e+00
159	IHT0000032	0.0000	0.1953	0.0703	9.4702e-02	4.1000e+00
160	IHT0000033	37.3247	37.5200	37.3794	8.8585e-02	4.1170e+00
161	IHT0000034	-0.0800	0.3106	0.0489	1.0885e-01	4.1000e+00
162	IHT0000035	0.0072	0.3978	0.0736	1.0145e-01	4.1000e+00
163	IHT0000036	-0.2353	0.1553	-0.0127	9.6735e-02	4.1000e+00

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Velocity 1 - 4.8512 (ft/sec) (+/- 7.8234 %)
 Velocity 2 - 4.5713 (ft/sec) (+/- 4.4907 %)
 Pressure drop - -4.2274 (psi)
 Tstat in - 240.9481 (deg F) Tstat out - 249.2506 (deg F)
 Phi inner - 0.0007 (kBtu/hr-ft2) (+/- 1843.1146 %)
 Phi outer - 0.0004 (kBtu/hr-ft2) (+/- 377.5363 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	74.8213	74.6343	1.5856e-01	1.9000e+00
1	TRF0000002	74.9393	75.3622	75.2269	1.1106e-01	1.9000e+00
2	TFH0000001	86.8705	87.4995	87.1809	1.7058e-01	1.9002e+00
3	TIN0000001	87.1515	87.7814	87.4999	1.5651e-01	1.9002e+00
4	TRV0000001	86.8387	87.5715	87.1738	2.0598e-01	1.9002e+00
5	TSR0000001	87.3472	87.9755	87.7701	1.4949e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.3466	87.1831	86.8113	1.8209e-01	1.9002e+00
8	TAO070136	87.7389	88.5801	88.1682	1.8250e-01	1.9002e+00
9	TAO080136	87.5271	88.0503	87.7580	1.4177e-01	1.9002e+00
10	TAO090136	87.1928	87.9260	87.5658	1.6684e-01	1.9002e+00
11	TAO100136	87.3991	88.1329	87.7641	1.3767e-01	1.9002e+00
12	TAO105136	87.6514	88.3857	88.0501	2.0546e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1561	1.1859e-01	1.9011e+00
14	TAO115136	86.9650	87.7012	87.3228	1.8022e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5513	5.5183e-02	1.9009e+00
16	TAO125136	87.4005	87.9244	87.6228	1.3819e-01	1.9002e+00
17	TAO130136	87.3533	87.8748	87.5501	1.3094e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2661	9.8851e-02	1.9011e+00
19	TAO130048	87.2564	87.7803	87.5706	1.4040e-01	1.9002e+00
20	TAO120224	86.8520	87.5860	87.2840	1.6086e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8708	1.3127e-01	1.9010e+00
22	TAO120312	87.1311	87.7604	87.4709	1.6359e-01	1.9002e+00
23	TAO130312	86.8201	87.4489	87.1556	1.4362e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3393	1.8763e-01	1.9010e+00
25	TRT070000	87.0277	87.7650	87.4493	1.7677e-01	1.9002e+00
26	TRT100000	87.7379	88.3663	88.0314	1.8427e-01	1.9002e+00
27	TRT120000	87.4390	88.0678	87.7326	1.4049e-01	1.9002e+00
28	TRT125000	87.4191	88.2532	87.7608	1.6462e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6011	7.3182e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6975	1.9119e-01	1.9011e+00
31	TAF050136	87.4779	88.0016	87.7586	1.2937e-01	1.9002e+00
32	TAF070136	87.9700	88.6995	88.3617	1.7701e-01	1.9002e+00
33	TAF080136	87.3710	88.1017	87.6762	1.4904e-01	1.9002e+00
34	TAF090136	87.5458	88.4887	88.0111	2.7839e-01	1.9002e+00
35	TAF100136	87.1056	87.8399	87.5211	1.5573e-01	1.9002e+00
36	TAF105136	87.3815	88.3201	87.7739	2.2029e-01	1.9002e+00
37	TAF110136	87.0669	87.7994	87.5063	1.6918e-01	1.9002e+00
38	TAF115136	87.7427	88.3713	88.0613	1.4953e-01	1.9002e+00
39	TAF120136	87.4187	87.8383	87.6788	1.0862e-01	1.9002e+00
40	TAF125136	87.6926	88.1121	87.9068	1.2304e-01	1.9002e+00
41	TAF130136	87.4941	87.9137	87.7501	1.1448e-01	1.9002e+00
42	TAF120048	87.7151	88.4534	88.0947	1.8307e-01	1.9002e+00
43	TAF130048	87.3132	87.7328	87.5649	1.1219e-01	1.9002e+00
44	TAF120224	87.4280	88.1618	87.8348	1.7017e-01	1.9002e+00
45	TAF130224	86.9538	87.4792	87.2140	1.1669e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1905	2.0437e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3485	1.1017e-01	1.9010e+00
48	TAI130048	87.5094	88.5576	87.9791	2.5783e-01	1.9002e+00
49	TAI130136	86.9271	87.6600	87.3208	1.7376e-01	1.9002e+00
50	TAI130224	87.3736	88.4242	88.0165	2.4893e-01	1.9002e+00
51	TAI130312	86.9855	87.7203	87.3971	1.8346e-01	1.9002e+00
52	TAI130000	86.6535	87.5958	87.0934	2.3922e-01	1.9002e+00
53	TSI0000001	79.8292	80.3565	80.0614	1.2048e-01	1.9001e+00
54	TSI0000002	70.8298	71.6793	71.2801	2.3811e-01	1.9000e+00
55	TSO0000001	67.7672	68.5171	68.1359	1.9579e-01	1.9000e+00
56	TSO0000002	80.4233	81.2670	80.8705	1.6024e-01	1.9001e+00
57	TAF020136	86.9819	87.7192	87.2937	1.4746e-01	1.9002e+00
58	TAF120312	74.5334	75.5926	75.2071	2.5024e-01	1.9000e+00
59	TAF130312	86.7205	87.4545	87.0729	1.8310e-01	1.9002e+00
60	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
62	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5281	1.8082e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3287	2.3008e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3503	2.1635e-03	0.0000e+00
66	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3855	9.6655e-04	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3969	2.2146e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9053e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4324	2.4484e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4545	1.3381e-03	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4886	1.1714e-03	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5036	1.7115e-03	0.0000e+00
75	EMPTY	0.5176	0.5273	0.5225	9.8648e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5566	0.5615	0.5567	6.9053e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5806	1.4797e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6037	2.3675e-03	0.0000e+00
80	PAN020136	-15.0797	-14.7745	-14.9454	6.4591e-02	8.7080e-01
81	PAN050136	-28.1944	-27.7366	-27.9564	1.2392e-01	1.6815e+00
82	PAN070136	-18.6800	-18.2985	-18.4862	7.4258e-02	8.7123e-01
83	PAN080136	-9.8212	-9.5161	-9.6488	7.5212e-02	8.7033e-01
84	PAN090136	-9.4309	-9.2020	-9.3149	7.5888e-02	8.7031e-01
85	PAN100136	-9.3209	-9.1683	-9.2141	5.1121e-02	8.7030e-01
86	PAN105136	-4.4213	-4.1924	-4.3008	6.1828e-02	8.7007e-01
87	PAN110136	-4.8145	-4.5856	-4.6726	5.7693e-02	8.7008e-01
88	PAN115136	-4.3141	-4.0853	-4.1676	6.1346e-02	8.7006e-01
89	PAN120136	-5.3338	-5.0287	-5.1950	6.8396e-02	8.7010e-01
90	PAN125136	-4.8072	-4.5783	-4.6638	8.2489e-02	8.7008e-01
91	PAN130136	-4.8380	-4.6091	-4.7434	5.8815e-02	8.7008e-01
92	PAN120048	-10.2569	-10.0280	-10.1501	5.1121e-02	8.7037e-01
93	PAN130048	-9.6085	-9.3033	-9.4711	6.5395e-02	8.7032e-01
94	PAN120224	-9.3298	-9.1772	-9.2733	5.0678e-02	8.7031e-01
95	PAN130224	-9.5072	-9.2783	-9.3928	7.4322e-02	8.7032e-01
96	PAN120312	-9.2329	-9.0040	-9.1398	7.4386e-02	8.7030e-01
97	PAN130312	-9.5571	-9.3282	-9.4030	6.2592e-02	8.7032e-01
98	PAB000136	25.3663	25.5036	25.4239	3.3100e-02	5.8347e-01
99	PAB100136	28.4368	28.5742	28.5202	4.2067e-02	5.8437e-01
100	PAB125136	29.3039	29.4412	29.3863	4.4353e-02	5.8463e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.2492	25.2492	25.2492	1.9267e-05	7.5265e-01
102	PRV000001	20.6598	20.7819	20.7233	6.1605e-02	7.5179e-01
103	PSR000001	29.5968	29.7189	29.6261	5.2663e-02	7.5365e-01
104	PFM000001	3.3734	3.7397	3.5657	7.9017e-02	5.0008e-01
105	PAN000136	-117.4684	-116.5529	-117.0382	1.4357e-01	4.9287e+00
106	PFM000002	2.9361	3.5402	3.1586	1.4116e-01	2.0016e-01
107	EMPTY	-0.0049	0.0049	-0.0029	2.7902e-03	0.0000e+00
108	EMPTY	-10.0000	-9.2676	-9.9575	1.5060e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0909	9.5357e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0164	7.2866e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0225	9.2034e-02	8.1000e-01
115	VPW000004	-0.0353	0.1600	0.0663	9.8569e-02	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0302	1.0595e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0672	1.0763e-01	8.1000e-01
118	IPW000001	17.2181	13.3134	15.9296	1.2227e+00	8.1010e+00
119	IPW000002	5.4542	13.2593	9.5909	1.4015e+00	8.1004e+00
120	IPW000003	17.5032	21.4032	19.2972	1.1713e+00	8.1014e+00
121	IPW000004	-2.9414	-1.4766	-2.2480	2.9742e-01	2.0001e+00
122	IPW000005	-1.7647	-0.7882	-1.4131	3.1254e-01	2.0000e+00
123	IPW000006	-18.5547	-17.0898	-17.8125	3.9754e-01	2.0049e+00
124	EMPTY	-0.0293	-0.0098	-0.0212	4.1397e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0134	2.9280e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0185	3.3146e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	3.1211e-03	0.0000e+00
128	IHT000001	-0.2494	0.0541	-0.1556	9.8569e-02	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1050	8.6810e-02	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2513	1.0440e-01	4.1000e+00
131	IHT000004	-0.2000	-0.0047	-0.1492	8.6541e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.0925	6.7888e-02	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0044	1.0106e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0878	7.8523e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1473	6.8459e-02	4.1000e+00
136	IHT000009	-0.2000	-0.0047	-0.1727	6.8459e-02	4.1000e+00
137	IHT000010	-0.1600	0.2306	-0.1131	9.3043e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1152	9.4125e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1761	1.1334e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0483	9.5765e-02	4.1000e+00
141	IHT000014	-0.3553	0.0353	-0.1131	1.0106e-01	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1462	1.0617e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1552	8.5454e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0742	2.3639e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.3730	1.1334e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0166	8.4997e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0995	9.2456e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3334	9.1354e-02	4.1001e+00
149	IHT000022	-0.3153	0.0753	-0.1747	9.6976e-02	4.1000e+00
150	IHT000023	-0.3506	0.0400	-0.1241	8.2393e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2150	9.4702e-02	4.1000e+00
152	IHT000025	-0.0047	0.1906	0.0695	9.5765e-02	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0586	9.0412e-02	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1328	9.2034e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0189	9.9902e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1241	9.1354e-02	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1153	6.8345e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1106	1.0440e-01	4.1000e+00
159	IHT000032	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3833	9.0412e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0450	1.0992e-01	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1009	1.2627e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0009	8.8233e-02	4.1000e+00

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Velocity 1 - 3.0097 (ft/sec) (+/- 18.9635 %)
 Velocity 2 - 2.5852 (ft/sec) (+/- 9.8211 %)
 Pressure drop - -4.9252 (psi)
 Tsat in - 239.3214 (deg F) Tsat out - 249.1477 (deg F)
 Phi inner - 0.0008 (kBtu/hr-ft2) (+/- 1615.4000 %)
 Phi outer - 0.0004 (kBtu/hr-ft2) (+/- 172.7680 %)
 D inner - 0.1973 (ft) D outer - 0.2412 (ft) D hyd - 0.0438 (ft)
 L inner - 12.8330 (ft) L outer - 12.8330 (ft) A flow - 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	74.8213	74.6258	1.7087e-01	1.9000e+00
1	TRF0000002	74.9393	75.5736	75.2353	1.2814e-01	1.9000e+00
2	TFM0000001	86.7659	87.6037	87.2395	1.9314e-01	1.9002e+00
3	TIN0000001	87.1515	87.8866	87.5545	1.8041e-01	1.9002e+00
4	TRV0000001	86.8387	87.7803	87.2156	1.9134e-01	1.9002e+00
5	TSR0000001	87.3472	87.9755	87.7409	1.5481e-01	1.9002e+00
6	EMPTY	601.0594	601.0594	601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.2418	87.1835	86.7736	2.3334e-01	1.9002e+00
8	TAO070136	87.7397	88.5801	88.1261	2.0859e-01	1.9002e+00
9	TAO080136	87.3188	88.1549	87.7330	1.8532e-01	1.9002e+00
10	TAO090136	86.9835	87.9260	87.5365	2.1477e-01	1.9002e+00
11	TAO100136	87.3991	88.1329	87.7682	1.5314e-01	1.9002e+00
12	TAO105136	87.6514	88.3857	88.0878	2.0035e-01	1.9002e+00
13	EMPTY	40.9819	41.4403	41.1286	1.3704e-01	1.9011e+00
14	TAO115136	86.8598	87.7012	87.3059	2.2841e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5513	5.5183e-02	1.9009e+00
16	TAO125136	87.2958	87.9244	87.5936	1.4569e-01	1.9002e+00
17	TAO130136	87.1468	87.7697	87.4922	1.4693e-01	1.9002e+00
18	EMPTY	41.2111	41.4403	41.2982	1.1235e-01	1.9011e+00
19	TAO130048	87.2564	87.7803	87.4870	1.6253e-01	1.9002e+00
20	TAO120224	86.8520	87.4812	87.2881	1.3794e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.8892	1.1022e-01	1.9010e+00
22	TAO120312	87.1311	87.7604	87.4667	1.5433e-01	1.9002e+00
23	TAO130312	86.8201	87.4489	87.0971	1.4176e-01	1.9002e+00
24	EMPTY	38.9168	39.6057	39.3531	1.8115e-01	1.9010e+00
25	TRT070000	87.0277	87.7650	87.4197	1.5333e-01	1.9002e+00
26	TRT100000	87.6336	88.5752	88.0063	1.9507e-01	1.9002e+00
27	TRT120000	87.4390	88.0678	87.7242	1.5858e-01	1.9002e+00
28	TRT125000	87.3139	88.2532	87.7233	1.9778e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.5689	1.0738e-01	1.9011e+00
30	EMPTY	39.1464	40.0646	39.6745	1.9811e-01	1.9011e+00
31	TAF050136	87.4779	88.0016	87.7711	1.5256e-01	1.9002e+00
32	TAF070136	87.9685	88.8041	88.3700	1.7941e-01	1.9002e+00
33	TAF080136	87.2664	87.8939	87.6762	1.6999e-01	1.9002e+00
34	TAF090136	87.5463	88.5933	88.0781	2.6911e-01	1.9002e+00
35	TAF100136	87.1056	87.8403	87.5252	1.7613e-01	1.9002e+00
36	TAF105136	87.2768	88.2155	87.7864	2.2444e-01	1.9002e+00
37	TAF110136	87.1710	87.7994	87.5313	1.4832e-01	1.9002e+00
38	TAF115136	87.6381	88.4759	88.0236	1.9445e-01	1.9002e+00
39	TAF120136	87.4187	88.0467	87.6913	1.3725e-01	1.9002e+00
40	TAF125136	87.4844	88.2151	87.9234	1.5819e-01	1.9002e+00
41	TAF130136	87.4942	87.9137	87.7501	1.2390e-01	1.9002e+00
42	TAF120048	87.6100	88.4529	88.0693	2.2193e-01	1.9002e+00
43	TAF130048	87.2082	87.7328	87.5607	1.3028e-01	1.9002e+00
44	TAF120224	87.4280	88.1618	87.8347	2.1552e-01	1.9002e+00
45	TAF130224	86.9538	87.3735	87.2097	1.2397e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1675	1.7260e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.3164	1.2106e-01	1.9010e+00
48	TAI130048	87.5094	88.4531	87.9749	2.7950e-01	1.9002e+00
49	TAI130136	87.0313	87.6600	87.3333	1.6337e-01	1.9002e+00
50	TAI130224	87.4786	88.3192	87.9114	2.3022e-01	1.9002e+00
51	TAI130312	86.9854	87.7203	87.3089	1.5707e-01	1.9002e+00
52	TRR130000	86.3395	87.5958	87.1227	2.2806e-01	1.9002e+00
53	TSI0000001	79.7239	80.3565	80.0403	1.5658e-01	1.9001e+00
54	TSI0000002	70.9359	71.7853	71.3946	2.4301e-01	1.9000e+00
55	TSO0000001	67.8751	68.6234	68.1487	1.7570e-01	1.9000e+00
56	TSO0000002	80.2122	81.0561	80.6679	2.0497e-01	1.9001e+00
57	TAF020136	86.8772	87.7192	87.3570	1.8923e-01	1.9002e+00
58	TAF120312	74.7452	75.8042	75.1858	2.6923e-01	1.9000e+00
59	TAF130312	86.6158	87.4545	87.1022	2.0834e-01	1.9002e+00
60	EMPTY	0.4785	0.4883	0.4837	1.5314e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
62	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5286	2.1635e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3282	2.0432e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3498	2.3675e-03	0.0000e+00
66	EMPTY	0.3662	0.3711	0.3663	6.9053e-04	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3850	1.8082e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3966	2.0432e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9053e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4314	2.3675e-03	0.0000e+00
71	EMPTY	0.4492	0.4590	0.4541	9.8648e-04	0.0000e+00
72	EMPTY	0.4639	0.4736	0.4688	1.2041e-03	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5224	6.9053e-04	0.0000e+00
76	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
77	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5801	1.9730e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6027	2.4484e-03	0.0000e+00
80	PAN020136	-17.4448	-17.1396	-17.2678	6.6189e-02	8.7107e-01
81	PAN050136	-32.7720	-32.3143	-32.5035	1.0018e-01	1.6820e+00
82	PAN070136	-21.8080	-21.5792	-21.6936	4.4272e-02	8.7169e-01
83	PAN080136	-11.1182	-10.8893	-11.0297	6.4222e-02	8.7044e-01
84	PAN090136	-10.8805	-10.6516	-10.7538	5.8916e-02	8.7042e-01
85	PAN100136	-10.8468	-10.6179	-10.7247	5.1121e-02	8.7041e-01
86	PAN105136	-5.3368	-5.1843	-5.2514	5.4800e-02	8.7010e-01
87	PAN110136	-5.6537	-5.3485	-5.5423	6.9293e-02	8.7011e-01
88	PAN115136	-5.1534	-4.9245	-4.9947	7.0365e-02	8.7009e-01
89	PAN120136	-6.0205	-5.7153	-5.9030	6.3944e-02	8.7013e-01
90	PAN125136	-5.4939	-5.2650	-5.3947	5.3948e-02	8.7010e-01
91	PAN130136	-5.5246	-5.2958	-5.4300	5.6759e-02	8.7011e-01
92	PAN120048	-11.8591	-11.5539	-11.6745	6.1828e-02	8.7049e-01
93	PAN130048	-10.9818	-10.8292	-10.8841	5.7755e-02	8.7043e-01
94	PAN120224	-11.0082	-10.7031	-10.8679	6.4222e-02	8.7042e-01
95	PAN130224	-10.9568	-10.7279	-10.9019	5.5660e-02	8.7043e-01
96	PAN120312	-10.8350	-10.6824	-10.7572	5.8673e-02	8.7042e-01
97	PAN130312	-11.0067	-10.7778	-10.8861	5.3594e-02	8.7043e-01
98	PAB000136	24.5881	24.8170	24.7025	6.5558e-02	5.8328e-01
99	PAB100136	28.2080	28.4368	28.3178	6.5395e-02	5.8430e-01
100	PAB125136	29.2123	29.4412	29.3341	6.0369e-02	5.8462e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.3947	24.5168	24.4826	5.5366e-02	7.5249e-01
102	PRV000001	20.6598	20.7819	20.7062	5.9853e-02	7.5178e-01
103	PSR000001	29.5968	29.7189	29.6725	5.9853e-02	7.5366e-01
104	PFH000001	1.2677	1.4508	1.3410	6.9207e-02	5.0001e-01
105	PAN000136	136.6945	-136.2368	-136.3558	2.0283e-01	4.9318e+00
106	PFH000002	0.8387	1.0904	0.9796	6.4944e-02	2.0001e-01
107	EMPTY	-0.0049	0.0049	-0.0037	2.3261e-03	0.0000e+00
108	EMPTY	-10.0000	-9.1797	-9.9679	1.3355e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0002	1.3811e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0909	6.6498e-02	8.1000e-01
113	VPW000002	-0.2000	0.1906	-0.0047	7.8918e-02	8.1000e-01
114	VPW000003	-0.0400	0.3506	0.0381	1.0440e-01	8.1000e-01
115	VPW000004	-0.2306	0.3553	0.0545	1.1975e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	-0.0184	1.0617e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0633	1.3235e-01	8.1000e-01
118	IPW000001	-17.2181	-13.3134	-16.0077	1.1079e+00	8.1010e+00
119	IPW000002	9.3567	13.2593	11.7763	1.2811e+00	8.1005e+00
120	IPW000003	17.5032	21.4032	19.5312	1.2433e+00	8.1015e+00
121	IPW000004	-3.4297	-2.4531	-2.9707	2.4976e-01	2.0001e+00
122	IPW000005	-1.7647	-0.7882	-1.4131	3.2774e-01	2.0000e+00
123	IPW000006	-18.5547	-17.0698	-17.8809	4.0542e-01	2.0050e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	3.0628e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.9280e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.3829e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0156	3.6911e-03	0.0000e+00
128	IHT000001	-0.4447	-0.0541	-0.1947	1.1189e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1597	1.0992e-01	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2630	1.0145e-01	4.1000e+00
131	IHT000004	-0.3953	-0.0047	-0.1805	9.8648e-02	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1355	1.0297e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0161	9.8648e-02	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.1269	9.3043e-02	4.1000e+00
135	IHT000008	-0.3153	0.0753	-0.1786	9.8648e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.2000	7.8918e-02	4.1000e+00
137	IHT000010	-0.3553	0.0353	-0.1053	1.0470e-01	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.0956	8.6810e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1487	9.9512e-02	4.1000e+00
140	IHT000013	-0.1694	0.2212	-0.0248	9.5112e-02	4.1000e+00
141	IHT000014	-0.1600	0.0353	-0.1014	9.0412e-02	4.1000e+00
142	IHT000015	-0.2400	0.1506	-0.1306	1.0559e-01	4.1000e+00
143	IHT000016	-0.3153	0.0753	-0.1356	6.6498e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0469	2.4503e-01	4.1000e+00
145	IHT000018	0.2753	0.4706	0.3847	9.7935e-02	4.1000e+00
146	IHT000019	-0.0400	0.1553	-0.0322	3.8662e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.0956	8.7880e-02	4.1000e+00
148	IHT000021	3.1694	3.3647	3.3412	6.4113e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.2059	9.7935e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1202	7.5798e-02	4.1000e+00
151	IHT000024	-0.2853	-0.0900	-0.2345	8.6541e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0773	1.1223e-01	4.1000e+00
153	IHT000026	-0.1953	0.1953	-0.0781	1.0440e-01	4.1000e+00
154	IHT000027	-0.1953	0.0000	-0.1484	8.4262e-02	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0228	8.7880e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1202	1.0206e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1192	9.2456e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1145	1.1497e-01	4.1000e+00
159	IHT000032	0.0000	0.3906	0.0586	9.8648e-02	4.1000e+00
160	IHT000033	37.3247	37.7153	37.3911	1.0145e-01	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0567	9.8648e-02	4.1000e+00
162	IHT000035	-0.1881	0.3978	0.1048	1.3235e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0048	8.5454e-02	4.1000e+00

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Velocity 1 = -0.3295 (ft/sec) (+/- 2417.4131 %)
 Velocity 2 = -1.6540 (ft/sec) (+/- 23.5976 %)
 Pressure drop = -0.0035 (psi)
 Tsat in = 248.6600 (deg F) Tsat out = 248.4722 (deg F)
 Phi inner = -0.0003 (kBtu/hr-ft2) (+/- 3260.6633 %)
 Phi outer = -0.0004 (kBtu/hr-ft2) (+/- 1836.3613 %)
 D inner = 0.1973 (ft) D outer = 0.2412 (ft) D hyd = 0.0438 (ft)
 L inner = 12.8330 (ft) L outer = 12.8330 (ft) A flow = 0.0151 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.3963	75.0338	74.6811	1.5838e-01	1.9000e+00
1	TRF0000002	74.9393	75.5736	75.2860	1.3344e-01	1.9000e+00
2	TFH0000001	86.8711	87.7088	87.3883	1.8737e-01	1.9002e+00
3	TIN0000001	86.9411	87.6763	87.3465	1.6705e-01	1.9002e+00
4	TRV0000001	86.8387	87.5715	87.2096	1.7822e-01	1.9002e+00
5	TSR0000001	87.4519	88.0801	87.6973	1.5182e-01	1.9002e+00
6	EMPTY	-601.0594	-601.0594	-601.0591	3.6993e-04	2.1295e+00
7	TAO050136	86.5555	87.2882	86.8972	1.9922e-01	1.9002e+00
8	TAO070136	87.8449	88.7906	88.2711	1.9503e-01	1.9002e+00
9	TAO080136	87.4234	88.2595	87.8438	1.6701e-01	1.9002e+00
10	TAO090136	87.2975	88.0312	87.6392	1.7548e-01	1.9002e+00
11	TAO100136	87.5038	88.2375	87.8458	1.5959e-01	1.9002e+00
12	TAO105136	87.7560	88.4903	88.1109	1.9294e-01	1.9002e+00
13	EMPTY	40.9819	41.2111	41.1011	1.1567e-01	1.9011e+00
14	TAO115136	86.7551	87.8058	87.3542	2.3109e-01	1.9002e+00
15	EMPTY	37.5374	37.7675	37.5651	7.5509e-02	1.9010e+00
16	TAO125136	87.4005	87.9244	87.6711	1.5565e-01	1.9002e+00
17	TAO130136	87.1468	87.7729	87.4414	1.5706e-01	1.9002e+00
18	EMPTY	41.2111	41.6693	41.2845	1.1747e-01	1.9011e+00
19	TAO130048	87.0474	87.8854	87.4267	1.6510e-01	1.9002e+00
20	TAO120224	86.9572	87.7958	87.3867	1.6714e-01	1.9002e+00
21	EMPTY	38.6870	39.1464	38.9076	1.2244e-01	1.9010e+00
22	TAO120312	87.2358	87.8655	87.5779	1.6793e-01	1.9002e+00
23	TAO130312	86.7157	87.3451	87.0241	1.5899e-01	1.9002e+00
24	EMPTY	39.1464	39.6057	39.3853	1.7332e-01	1.9010e+00
25	TAT0700000	87.2376	87.8701	87.5397	1.6475e-01	1.9002e+00
26	TAT1000000	87.6341	88.5752	88.0880	2.0443e-01	1.9002e+00
27	TAT1200000	87.5436	88.1725	87.7724	1.5516e-01	1.9002e+00
28	TAT1250000	87.5226	88.1498	87.8590	1.4194e-01	1.9002e+00
29	EMPTY	39.3761	39.8352	39.6057	9.2753e-02	1.9011e+00
30	EMPTY	39.3761	40.0646	39.6929	1.9058e-01	1.9011e+00
31	TAF050136	87.4779	88.1062	87.8111	1.3323e-01	1.9002e+00
32	TAF070136	87.9695	88.9091	88.4724	2.1257e-01	1.9002e+00
33	TAF080136	87.3715	87.9990	87.7744	1.3698e-01	1.9002e+00
34	TAF090136	87.5463	88.5933	88.2101	2.5351e-01	1.9002e+00
35	TAF100136	87.2108	87.8403	87.5903	1.4821e-01	1.9002e+00
36	TAF105136	87.3815	88.3201	87.8222	2.3567e-01	1.9002e+00
37	TAF110136	87.2762	87.7994	87.5504	1.4164e-01	1.9002e+00
38	TAF115136	87.5339	88.4759	88.1221	2.1245e-01	1.9002e+00
39	TAF120136	87.5234	88.0467	87.7437	1.2390e-01	1.9002e+00
40	TAF125136	87.6942	88.2167	87.9925	1.1585e-01	1.9002e+00
41	TAF130136	86.9706	87.6002	87.3419	1.4556e-01	1.9002e+00
42	TAF120048	87.7146	88.6625	88.1302	1.9313e-01	1.9002e+00
43	TAF130048	87.2082	87.6283	87.3867	1.2407e-01	1.9002e+00
44	TAF120224	87.4280	88.2664	87.8746	2.0175e-01	1.9002e+00
45	TAF130224	86.4261	87.0569	86.7982	1.4290e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	1.9269e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1786	8.0489e-02	1.9010e+00
48	TAI130048	87.5090	88.5576	88.0399	2.6482e-01	1.9002e+00
49	TAI130136	86.9271	87.8688	87.4359	1.9828e-01	1.9002e+00
50	TAI130224	87.3731	88.4238	88.0016	2.7056e-01	1.9002e+00
51	TAI130312	87.0902	87.8255	87.4621	1.8875e-01	1.9002e+00
52	TBI130000	86.6535	87.7005	87.1835	2.3966e-01	1.9002e+00
53	TSI0000001	79.6186	80.3565	80.0341	1.4820e-01	1.9001e+00
54	TSI0000002	70.9359	71.9973	71.4393	2.5439e-01	1.9000e+00
55	TSO0000001	67.9819	68.6234	68.3605	1.5754e-01	1.9000e+00
56	TSO0000002	80.5290	81.2670	80.9190	1.9089e-01	1.9001e+00
57	TAF020136	86.9824	87.8243	87.4306	1.9362e-01	1.9002e+00
58	TAF120312	74.8512	75.9104	75.2643	2.0768e-01	1.9000e+00
59	TAF130312	86.5110	87.3497	86.9452	1.8222e-01	1.9002e+00
60	EMPTY	0.4736	0.4834	0.4805	2.6100e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4956	2.4662e-03	0.0000e+00
62	EMPTY	0.5029	0.5127	0.5084	2.7267e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5262	2.1065e-03	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3279	1.8082e-03	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3488	2.4484e-03	0.0000e+00
66	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
67	EMPTY	0.3809	0.3857	0.3843	2.2603e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3966	2.0432e-03	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4151	6.9053e-04	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4310	2.1635e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4544	1.1714e-03	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4688	6.9053e-04	0.0000e+00
73	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5033	1.3381e-03	0.0000e+00
75	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
76	EMPTY	0.5371	0.5420	0.5372	6.9053e-04	0.0000e+00
77	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5805	1.6028e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6022	2.3365e-03	0.0000e+00
80	PAN020136	-0.5076	-0.3550	-0.4191	5.1951e-02	8.7000e-01
81	PAN050136	-0.2708	0.0343	-0.1182	1.2710e-01	1.6800e+00
82	PAN070136	-0.1406	0.0120	-0.0536	5.3417e-02	8.7000e-01
83	PAN080136	-0.1319	0.7073	0.3976	3.1073e-01	8.7000e-01
84	PAN090136	-0.7334	0.1822	-0.4038	3.0651e-01	8.7000e-01
85	PAN100136	-0.0130	0.2159	0.1213	7.6387e-02	8.7000e-01
86	PAN105136	-0.0726	0.1563	0.0159	6.2345e-02	8.7000e-01
87	PAN110136	-0.3131	-0.0842	-0.2048	5.7858e-02	8.7000e-01
88	PAN115136	0.2635	0.4924	0.3627	8.3362e-02	8.7000e-01
89	PAN120136	-0.5273	-0.2984	-0.4053	8.4424e-02	8.7000e-01
90	PAN125136	-0.0770	0.1519	0.0420	5.1492e-02	8.7000e-01
91	PAN130136	-0.1078	0.1974	0.0682	7.8957e-02	8.7000e-01
92	PAN120048	-0.9491	-0.7202	-0.8621	6.3571e-02	8.7000e-01
93	PAN130048	-0.3006	0.0046	-0.1312	7.4386e-02	8.7000e-01
94	PAN120224	-0.2508	0.0544	-0.0539	7.2444e-02	8.7000e-01
95	PAN130224	-0.1994	0.1058	-0.0529	7.0365e-02	8.7000e-01
96	PAN120312	-0.1539	0.1513	0.0124	7.8125e-02	8.7000e-01
97	PAN130312	-0.0966	0.0560	-0.0249	6.2440e-02	8.7000e-01
98	PAB000136	29.0284	29.2115	29.0879	3.7281e-02	5.8454e-01
99	PAB100136	28.8488	28.9861	28.9276	4.0354e-02	5.8449e-01
100	PAB125136	28.8919	29.0750	28.9935	4.5580e-02	5.8451e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PRV000001	28.6671	28.7892	28.7257	6.1605e-02	7.5343e-01
102	PRV000001	21.0260	21.1481	21.1456	1.7263e-02	7.5186e-01
103	PSR000001	28.6202	28.7423	28.6959	5.9853e-02	7.5342e-01
104	PFM000001	-0.1056	0.0775	-0.0103	6.6587e-02	5.0000e-01
105	PAN000136	-0.2809	0.1768	-0.0978	2.2653e-01	4.9200e+00
106	PFM000002	-0.4030	-0.3695	-0.3856	6.7461e-03	2.0000e-01
107	EMPTY	-0.0049	0.0000	-0.0036	2.1635e-03	0.0000e+00
108	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2706	0.1200	-0.0792	4.8166e-02	8.1000e-01
113	VPW000002	-0.0047	0.1906	0.0109	5.3525e-02	8.1000e-01
114	VPW000003	-0.0400	0.1553	0.0225	9.2034e-02	8.1000e-01
115	VPW000004	-0.0353	0.3553	0.0897	1.0992e-01	8.1000e-01
116	VPW000005	-0.1200	0.2706	0.0011	1.0358e-01	8.1000e-01
117	VPW000006	-0.2000	0.1906	-0.0281	9.3710e-02	8.1000e-01
118	IPW000001	12.0670	19.8764	15.6594	1.9064e+00	8.1009e+00
119	IPW000002	-17.9610	-6.2534	-14.8000	3.8804e+00	8.1008e+00
120	IPW000003	-19.5468	-15.6468	-17.1678	1.3237e+00	8.1011e+00
121	IPW000004	-0.5000	2.9180	2.0781	1.2043e+00	2.0001e+00
122	IPW000005	0.1883	1.1647	0.8425	3.0578e-01	2.0000e+00
123	IPW000006	10.2539	13.1836	12.2559	7.3325e-01	2.0023e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.6924e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0143	3.5348e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0165	3.5417e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	3.5030e-03	0.0000e+00
128	IHT000001	-0.4447	0.1412	-0.1830	1.1578e-01	4.1000e+00
129	IHT000002	-0.2847	0.1059	-0.1323	1.2027e-01	4.1000e+00
130	IHT000003	-0.5247	-0.1341	-0.2669	1.0014e-01	4.1000e+00
131	IHT000004	-0.3953	0.1906	-0.1414	1.1334e-01	4.1000e+00
132	IHT000005	-0.2800	0.1106	-0.1042	1.0625e-01	4.1000e+00
133	IHT000006	-0.1528	0.2378	-0.0005	1.1361e-01	4.1000e+00
134	IHT000007	-0.2753	0.1153	-0.0917	9.9902e-02	4.1000e+00
135	IHT000008	-0.3153	-0.1200	-0.1786	9.0412e-02	4.1000e+00
136	IHT000009	-0.3953	-0.0047	-0.1727	8.8321e-02	4.1000e+00
137	IHT000010	-0.1600	0.0353	-0.1053	8.8585e-02	4.1000e+00
138	IHT000011	-0.2753	0.1153	-0.1112	9.1354e-02	4.1000e+00
139	IHT000012	-0.3128	0.0778	-0.1566	1.0440e-01	4.1000e+00
140	IHT000013	-0.1694	0.0259	-0.0405	9.3461e-02	4.1000e+00
141	IHT000014	-0.3553	0.2306	-0.1327	9.6735e-02	4.1000e+00
142	IHT000015	-0.2400	-0.0447	-0.1384	9.8569e-02	4.1000e+00
143	IHT000016	-0.3153	-0.1200	-0.1434	6.4113e-02	4.1000e+00
144	IHT000017	-0.5859	0.3906	-0.0039	2.2492e-01	4.1000e+00
145	IHT000018	0.2753	0.6659	0.4003	1.1679e-01	4.1000e+00
146	IHT000019	-0.2353	0.1553	-0.0244	6.6498e-02	4.1000e+00
147	IHT000020	-0.2988	0.0919	-0.1034	8.8233e-02	4.1000e+00
148	IHT000021	3.1694	3.5600	3.3569	7.8523e-02	4.1001e+00
149	IHT000022	-0.3153	-0.1200	-0.1747	8.8585e-02	4.1000e+00
150	IHT000023	-0.1553	0.0400	-0.1202	7.5798e-02	4.1000e+00
151	IHT000024	-0.4806	-0.0900	-0.2306	9.6976e-02	4.1000e+00
152	IHT000025	-0.0047	0.3859	0.0969	1.0617e-01	4.1000e+00
153	IHT000026	-0.1953	0.0000	-0.0664	9.3461e-02	4.1000e+00
154	IHT000027	-0.3906	0.0000	-0.1328	1.0014e-01	4.1000e+00
155	IHT000028	-0.1647	0.2259	0.0150	1.1049e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0400	0.3506	0.1280	1.1168e-01	4.1000e+00
157	IHT000030	-0.0800	0.3106	0.1348	9.8648e-02	4.1000e+00
158	IHT000031	-0.0847	0.3059	0.1106	1.1161e-01	4.1000e+00
159	IHT000032	0.0000	0.3906	0.0508	9.5112e-02	4.1000e+00
160	IHT000033	37.3247	37.5200	37.3872	9.2034e-02	4.1170e+00
161	IHT000034	-0.0800	0.3106	0.0294	1.1272e-01	4.1000e+00
162	IHT000035	0.0072	0.3978	0.1009	1.1327e-01	4.1000e+00
163	IHT000036	-0.2353	0.1553	-0.0205	9.8648e-02	4.1000e+00

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Velocity 1 = 27.0003 (ft/sec) (+/- 1.6864 %)
 Velocity 2 = 13.6779 (ft/sec) (+/- 1.7009 %)
 Pressure drop = 21.4745 (psi)
 Tsat in = 285.1212 (deg F) Tsat out = 255.8495 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 4047.6887 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 14868.3096 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.4327	1.5481e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.5827	1.2425e-01	1.9000e+00
2	TFM000001	86.1010	86.8358	86.4161	1.7725e-01	1.9002e+00
3	TIN000001	85.7259	86.3575	86.0879	1.3635e-01	1.9002e+00
4	TRV000001	86.0357	86.7694	86.4299	1.5768e-01	1.9002e+00
5	TSR000001	85.7521	86.2767	86.0124	1.2573e-01	1.9002e+00
6	TAO020136	86.2113	87.0529	86.6824	2.2205e-01	1.9002e+00
7	TAO050136	86.2866	86.9162	86.6052	1.5833e-01	1.9002e+00
8	TAO070136	84.1966	85.0404	84.6902	1.8503e-01	1.9001e+00
9	TAO080136	86.0737	86.7034	86.4215	1.5751e-01	1.9002e+00
10	TAO090136	86.2539	87.1980	86.7030	1.7981e-01	1.9002e+00
11	TAO100136	86.2228	86.8524	86.4708	1.4503e-01	1.9002e+00
12	TAO105136	86.7143	87.4502	87.0760	1.7407e-01	1.9002e+00
13	TAO110136	84.1291	84.7574	84.4640	1.4042e-01	1.9001e+00
14	TAO115136	86.2733	87.3261	86.6864	2.4141e-01	1.9002e+00
15	TAO120136	86.0060	86.7373	86.3146	1.4496e-01	1.9002e+00
16	TAO125136	86.2956	86.9262	86.6065	1.6146e-01	1.9002e+00
17	TAO130136	86.0333	86.6611	86.3135	1.4510e-01	1.9002e+00
18	TAO120048	86.0341	86.7651	86.4331	1.6702e-01	1.9002e+00
19	TAO130048	85.9675	86.4928	86.2066	1.3742e-01	1.9002e+00
20	TAO120224	86.0640	86.5896	86.3247	1.4273e-01	1.9002e+00
21	TAO130224	86.0722	86.7014	86.3572	1.4339e-01	1.9002e+00
22	TAO120312	85.9898	86.7256	86.2755	1.8143e-01	1.9002e+00
23	TAO130312	85.9244	86.4501	86.2016	1.2335e-01	1.9002e+00
24	TRO200000	86.2892	87.2365	86.7107	1.8785e-01	1.9002e+00
25	TRO700000	86.2552	86.8882	86.5633	1.3607e-01	1.9002e+00
26	TRO100000	86.3042	87.2478	86.8117	2.1115e-01	1.9002e+00
27	TRO120000	86.2149	87.0552	86.5803	1.7780e-01	1.9002e+00
28	TRO125000	86.2876	87.0207	86.6556	1.7956e-01	1.9002e+00
29	TRO130000	86.1947	86.7202	86.4215	1.4892e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6699	2.2259e-01	1.9011e+00
31	TAF050136	86.3923	87.0225	86.7196	1.6908e-01	1.9002e+00
32	TAF070136	86.7069	87.5434	87.1415	1.7078e-01	1.9002e+00
33	TAF080136	86.2292	86.9614	86.5934	1.4976e-01	1.9002e+00
34	TAF090136	83.9447	84.8914	84.3696	2.4566e-01	1.9001e+00
35	TAF100136	86.1924	86.7185	86.4660	1.5609e-01	1.9002e+00
36	TAF105136	85.9068	86.9519	86.5958	2.5459e-01	1.9002e+00
37	TAF110136	85.9561	86.5850	86.3079	1.4944e-01	1.9002e+00
38	TAF115136	86.7000	87.2250	86.9689	1.6845e-01	1.9002e+00
39	TAF120136	86.2074	86.7322	86.4962	1.1144e-01	1.9002e+00
40	TAF125136	86.2882	87.3320	86.7889	2.9064e-01	1.9002e+00
41	TAF130136	86.1880	87.0280	86.6246	1.4748e-01	1.9002e+00
42	TAF120048	86.5527	87.3976	86.9543	2.1208e-01	1.9002e+00
43	TAF130048	86.1171	86.9565	86.5330	1.8723e-01	1.9002e+00
44	TAF120224	86.2943	87.0299	86.6054	2.0579e-01	1.9002e+00
45	TAF130224	85.6667	86.5105	86.0928	1.9644e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	1.9202e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1694	6.9589e-02	1.9010e+00
48	TAI130138	86.1901	87.3456	86.7784	2.9629e-01	1.9002e+00
49	TAI130226	85.8311	86.3551	86.0872	1.6558e-01	1.9002e+00
50	TAI130314	86.3363	87.3883	86.8075	2.7974e-01	1.9002e+00
51	TAI130042	85.8169	86.7629	86.1870	1.9834e-01	1.9002e+00
52	TRR130090	85.4933	86.6474	86.0181	2.2819e-01	1.9002e+00
53	TSI0000001	80.1152	80.8535	80.5666	1.7950e-01	1.9001e+00
54	TSI0000002	76.1096	77.0612	76.5454	2.4767e-01	1.9000e+00
55	TSO0000001	75.2059	75.9501	75.6354	1.7041e-01	1.9000e+00
56	TSO0000002	80.9420	81.8911	81.4061	1.8930e-01	1.9001e+00
57	TAF020136	85.5005	86.3437	85.9097	1.7395e-01	1.9002e+00
58	TAF120312	85.9003	86.9501	86.4043	2.6567e-01	1.9002e+00
59	TAF130312	85.5840	86.2147	85.8530	1.4567e-01	1.9002e+00
60	EMP. 1	0.4639	0.4688	0.4687	6.9053e-04	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4835	6.9053e-04	0.0000e+00
62	EMPTY	0.4932	0.4980	0.4966	2.2603e-03	0.0000e+00
63	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3350	2.4164e-03	0.0000e+00
65	EMPTY	0.3564	0.3564	0.3564	0.0000e+00	0.0000e+00
66	EMPTY	0.3711	0.3760	0.3712	6.9053e-04	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3904	9.6655e-04	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4050	1.1714e-03	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4211	2.1065e-03	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4387	1.8082e-03	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4620	2.3941e-03	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4746	1.9730e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4937	1.4797e-03	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5113	2.2146e-03	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5275	9.6655e-04	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5422	9.6655e-04	0.0000e+00
77	EMPTY	0.5615	0.5664	0.5616	6.9053e-04	0.0000e+00
78	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6058	1.1714e-03	0.0000e+00
80	PAN020136	75.0896	78.1413	76.4766	6.5207e-01	8.9076e-01
81	PAN050136	134.7663	138.1233	136.5485	8.6065e-01	1.7143e+00
82	PAN070136	94.4390	97.9485	96.3235	6.9366e-01	9.0271e-01
83	PAN080136	47.4109	48.2502	47.7787	2.4453e-01	8.7816e-01
84	PAN090136	42.6118	43.7562	43.2756	2.4722e-01	8.7670e-01
85	PAN100136	48.6683	49.5839	49.1643	2.2509e-01	8.7864e-01
86	PAN105136	22.9947	23.9102	23.4921	2.6619e-01	8.7198e-01
87	PAN110136	24.1611	25.0003	24.5700	2.0723e-01	8.7217e-01
88	PAN115136	23.0298	24.0979	23.4372	2.4643e-01	8.7197e-01
89	PAN120136	20.2980	20.8321	20.6276	1.3824e-01	8.7153e-01
90	PAN125136	23.3820	24.2212	23.7864	1.7859e-01	8.7203e-01
91	PAN130136	23.6226	24.1567	23.8469	1.2842e-01	8.7204e-01
92	PAN120048	40.6898	41.4527	41.1064	1.9326e-01	8.7605e-01
93	PAN130048	49.7540	50.8222	50.2820	2.3520e-01	8.7903e-01
94	PAN120224	47.2569	47.9435	47.6032	1.7109e-01	8.7810e-01
95	PAN130224	52.9423	53.8578	53.4153	2.1744e-01	8.8019e-01
96	PAN120312	43.0417	43.8809	43.4201	1.9311e-01	8.7675e-01
97	PAN130312	49.4328	50.5010	49.8906	2.5139e-01	8.7890e-01
98	PAB000136	53.1159	53.8026	53.4620	1.2820e-01	5.9520e-01
99	PAB100136	37.0326	37.2157	37.1351	5.0282e-02	5.8738e-01
100	PAB125136	32.8255	33.0086	32.9116	4.4004e-02	5.8581e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	52.8486	53.8251	53.3296	2.3963e-01	7.6176e-01
102	PRV000001	26.7021	26.8241	26.8193	2.4164e-02	7.5299e-01
103	PSR000001	29.2209	29.4651	29.3357	3.8286e-02	7.5358e-01
104	PM0000001	111.1275	113.7825	112.4879	6.7506e-01	5.7366e-01
105	PAN000136	589.4506	599.5214	594.5317	2.1654e+00	5.1396e+00
106	PM0000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0097	6.9053e-04	0.0000e+00
108	EMPTY	-9.9219	-8.9941	-9.7024	1.9170e-01	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0045	1.3381e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0057	8.6541e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0334	9.9902e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0135	9.6655e-02	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0790	9.8569e-02	8.1000e-01
116	VPW000005	-0.1202	0.0751	0.0009	9.5765e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0011	1.1168e-01	8.1000e-01
118	IPW000001	-4.1299	-0.2252	-1.3966	1.1156e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.0002	1.1323e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.5219	9.6178e-01	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2179	2.4164e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2216	2.6559e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1965	2.9528e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.3613e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.4003e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0177	2.9413e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0160	3.1257e-03	0.0000e+00
128	IHT000001	-0.3343	0.2516	0.0368	8.1347e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0089	8.5454e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0266	6.7888e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0221	6.1257e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0063	9.3461e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0996	8.4262e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0455	9.7935e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0293	9.6655e-02	4.1000e+00
136	IHT000009	-0.1315	0.0638	0.0404	6.4113e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0449	1.0799e-01	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0072	5.5243e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0134	1.0654e-01	4.1000e+00
140	IHT000013	-0.0789	0.1164	-0.0632	5.3525e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0677	8.3612e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0312	7.2330e-02	4.1000e+00
143	IHT000016	-0.2291	0.3568	-0.0182	8.6810e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0682	1.6667e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0669	1.0440e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0757	7.7324e-02	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0367	6.4113e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0631	7.1136e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.1244	1.0559e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0736	7.8918e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0500	1.0145e-01	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0562	6.2265e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0557	5.3525e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0574	7.9017e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0575	1.2072e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0007	7.1136e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0911	9.5765e-02	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0610	9.5765e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0191	7.8523e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0039	8.3612e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0479	9.5765e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0210	9.0412e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0117	6.1257e-02	4.1000e+00

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Velocity 1 - 26.1577 (ft/sec) (+/- 1.6884 %)
 Velocity 2 - 13.6787 (ft/sec) (+/- 1.7009 %)
 Pressure drop - 19.8630 (psi)
 Tsat in - 282.9363 (deg F) Tsat out - 255.3293 (deg F)
 Phi inner - 0.0000 (kbtu/hr-ft2) (+/- 4457.9346 %)
 Phi outer - 0.0000 (kbtu/hr-ft2) (+/- 1142.4091 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.6370	74.4625	1.5320e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.5954	1.1953e-01	1.9000e+00
2	TFH000001	86.6251	87.4642	87.1118	2.1148e-01	1.9002e+00
3	TIN000001	86.3573	86.9882	86.7738	1.2914e-01	1.9002e+00
4	TRV000001	86.7694	87.6049	87.0777	1.6484e-01	1.9002e+00
5	TSR000001	86.3789	86.9033	86.6894	1.3707e-01	1.9002e+00
6	TAO020136	86.9470	87.7882	87.4182	2.3088e-01	1.9002e+00
7	TAO050136	86.9127	87.4368	87.2648	1.2462e-01	1.9002e+00
8	TAO070136	84.8299	85.6728	85.2389	1.7649e-01	1.9002e+00
9	TAO080136	86.6997	87.3285	87.0976	1.2711e-01	1.9002e+00
10	TAO090136	86.8826	87.7215	87.3399	1.8796e-01	1.9002e+00
11	TAO100136	86.8518	87.4816	87.1249	1.4841e-01	1.9002e+00
12	TAO105136	87.4497	88.0806	87.7275	1.8478e-01	1.9002e+00
13	TAO110136	84.6498	85.1743	84.9563	1.4944e-01	1.9002e+00
14	TAO115136	86.8006	87.7472	87.3267	2.1576e-01	1.9002e+00
15	TAO120136	86.7330	87.3612	86.9931	1.4526e-01	1.9002e+00
16	TAO125136	86.9244	87.6587	87.2603	1.7859e-01	1.9002e+00
17	TAO130136	86.6534	87.1755	86.9875	1.3486e-01	1.9002e+00
18	TAO120048	86.6632	87.5026	87.1669	1.6824e-01	1.9002e+00
19	TAO130048	86.4897	87.1190	86.8212	1.6041e-01	1.9002e+00
20	TAO120224	86.6936	87.4286	87.0004	1.7470e-01	1.9002e+00
21	TAO130224	86.6965	87.3247	87.0190	1.5213e-01	1.9002e+00
22	TAO120312	86.6195	87.4595	86.9770	1.7368e-01	1.9002e+00
23	TAO130312	86.6572	87.1815	86.8675	1.1815e-01	1.9002e+00
24	TRT020000	87.0264	87.7632	87.3802	1.9797e-01	1.9002e+00
25	TRT070000	86.8894	87.5221	87.2310	1.4987e-01	1.9002e+00
26	TRT100000	87.0371	87.8754	87.5066	1.9658e-01	1.9002e+00
27	TRT120000	86.9487	87.5784	87.2805	1.5918e-01	1.9002e+00
28	TRT125000	86.8083	87.7489	87.3020	2.0473e-01	1.9002e+00
29	TRT130000	86.7176	87.2423	87.0868	1.3275e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6883	1.8410e-01	1.9011e+00
31	TAF050136	87.0201	87.7538	87.3725	1.6768e-01	1.9002e+00
32	TAF070136	87.4368	88.1694	87.8055	1.9733e-01	1.9002e+00
33	TAF080136	86.9589	87.4825	87.2225	1.4838e-01	1.9002e+00
34	TAF090136	84.3648	85.4155	84.9281	2.5444e-01	1.9002e+00
35	TAF100136	86.7180	87.4540	87.1137	1.7062e-01	1.9002e+00
36	TAF105136	86.6363	87.6793	87.1662	2.4465e-01	1.9002e+00
37	TAF110136	86.6879	87.3174	86.9400	1.3234e-01	1.9002e+00
38	TAF115136	87.1191	87.9581	87.5681	1.7850e-01	1.9002e+00
39	TAF120136	86.9386	87.4631	87.1739	1.2987e-01	1.9002e+00
40	TAF125136	86.9135	87.8533	87.4475	2.7207e-01	1.9002e+00
41	TAF130136	86.9220	87.5510	87.2405	1.6268e-01	1.9002e+00
42	TAF120048	87.0822	88.0315	87.5587	2.0470e-01	1.9002e+00
43	TAF130048	86.7468	87.3762	87.1578	1.4033e-01	1.9002e+00
44	TAF120224	86.9244	87.6597	87.3110	1.9950e-01	1.9002e+00
45	TAF130224	86.4055	87.1446	86.7603	1.6741e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0296	1.9159e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1694	6.9589e-02	1.9010e+00
48	TAI130138	86.9250	87.9750	87.4418	2.9445e-01	1.9002e+00
49	TAI130226	86.3541	87.0880	86.7443	1.7330e-01	1.9002e+00
50	TAI130314	86.8625	88.1240	87.5059	3.1618e-01	1.9002e+00
51	TAI130042	86.2372	87.1828	86.8172	2.1769e-01	1.9002e+00
52	TRR130090	86.2271	87.1711	86.6343	2.3553e-01	1.9002e+00
53	TSI0000001	80.7470	81.2745	81.0508	1.6994e-01	1.9001e+00
54	TSI0000002	76.1096	77.0612	76.6806	2.6133e-01	1.9000e+00
55	TSO0000001	75.4188	76.1629	75.8311	1.7537e-01	1.9000e+00
56	TSO0000002	81.3635	82.2069	81.7348	2.0784e-01	1.9001e+00
57	TAF020136	86.2398	86.8724	86.5856	1.6912e-01	1.9002e+00
58	TAF120312	86.5297	87.5789	87.0293	2.7841e-01	1.9002e+00
59	TAF130312	86.0029	86.8421	86.5232	1.6414e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4831	1.1714e-03	0.0000e+00
61	EMPTY	0.4932	0.5029	0.4980	9.8648e-04	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5117	1.9730e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5272	6.9053e-04	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3406	2.1065e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3612	6.9053e-04	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3782	9.6655e-04	0.0000e+00
67	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4100	9.6655e-04	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4275	2.4484e-03	0.0000e+00
70	EMPTY	0.4395	0.4443	0.4441	9.6655e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4681	1.7115e-03	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4822	2.1065e-03	0.0000e+00
73	EMPTY	0.4980	0.5029	0.5008	2.4484e-03	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5173	1.1714e-03	0.0000e+00
75	EMPTY	0.5322	0.5371	0.5328	1.6028e-03	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5470	6.9053e-04	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5671	1.7115e-03	0.0000e+00
78	EMPTY	0.5908	0.5908	0.5908	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6152	0.6110	1.9754e-03	0.0000e+00
80	PAN020136	69.6727	72.2667	70.7546	6.9562e-01	8.8780e-01
81	PAN050136	125.1533	127.7473	126.5083	5.4595e-01	1.7095e+00
82	PAN070136	88.1066	90.1665	89.0237	5.0148e-01	8.9802e-01
83	PAN080136	43.4436	45.1984	44.1944	3.4547e-01	8.7699e-01
84	PAN090136	39.4075	40.2467	39.9064	2.1033e-01	8.7570e-01
85	PAN100136	45.0825	45.8455	45.3694	2.0130e-01	8.7736e-01
86	PAN105136	21.3925	22.2317	21.8121	2.2509e-01	8.7171e-01
87	PAN110136	22.4063	23.1693	22.7603	2.0083e-01	8.7186e-01
88	PAN115136	21.5039	22.3432	21.8045	2.0588e-01	8.7171e-01
89	PAN120136	18.7721	19.2299	18.9979	9.4966e-02	8.7130e-01
90	PAN125136	21.7798	22.3902	22.0484	1.6690e-01	8.7174e-01
91	PAN130136	21.7916	22.2494	22.0189	1.0952e-01	8.7174e-01
92	PAN120048	37.6380	38.6298	38.1355	2.4529e-01	8.7521e-01
93	PAN130048	46.3208	47.3126	46.6428	2.3289e-01	8.7778e-01
94	PAN120224	43.8237	44.5866	44.1105	1.8596e-01	8.7696e-01
95	PAN130224	49.0513	49.9668	49.4862	2.0751e-01	8.7875e-01
96	PAN120312	40.1425	40.9055	40.4645	2.2511e-01	8.7586e-01
97	PAN130312	45.5419	46.6100	46.0408	2.1536e-01	8.7758e-01
98	PAB000136	51.3764	51.9257	51.6447	1.3209e-01	5.9420e-01
99	PAB100136	36.3917	36.6664	36.5483	6.2101e-02	5.8715e-01
100	PAB125136	32.5509	32.7340	32.6205	4.1607e-02	5.8571e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	51.0175	51.8720	51.4179	1.9268e-01	7.6094e-01
102	PRV000001	26.8241	26.9462	26.8266	1.7263e-02	7.5299e-01
103	PSR000001	29.2209	29.3430	29.2624	5.8413e-02	7.5356e-01
104	PPH000001	104.6272	106.5498	105.5409	4.9233e-01	5.6535e-01
105	PAN000136	545.9630	554.6605	549.9181	2.1526e+00	5.1085e+00
106	PPH000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0097	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-9.3652	-9.7842	1.2944e-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	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0018	8.4262e-02	8.1000e-01
113	VPW000002	-0.0451	0.1502	-0.0334	4.6855e-02	8.1000e-01
114	VPW000003	-0.0526	0.1427	-0.0214	7.2330e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.1064	1.0145e-01	8.1000e-01
116	VPW000005	-0.1202	0.0751	0.0087	9.3461e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0028	9.3710e-02	8.1000e-01
118	IPW000001	-2.1775	3.6795	-0.4595	1.3457e+00	8.1000e+00
119	IPW000002	-2.9267	0.9758	-0.4681	1.0287e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-1.0679	1.0832e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.1691	2.4662e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	0.0323	2.8400e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1965	3.5513e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0213	2.9197e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.3114e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0169	2.9938e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0163	2.8946e-03	0.0000e+00
128	INT000001	-0.1390	0.2516	0.0524	1.0052e-01	4.1000e+00
129	INT000002	-0.2216	0.1690	0.0245	9.5112e-02	4.1000e+00
130	INT000003	-0.1765	0.2141	0.0227	9.2456e-02	4.1000e+00
131	INT000004	-0.1615	0.2291	0.0455	9.1779e-02	4.1000e+00
132	INT000005	-0.0601	0.3305	0.0024	1.0014e-01	4.1000e+00
133	INT000006	-0.3418	0.0488	-0.1074	9.6655e-02	4.1000e+00
134	INT000007	-0.0638	0.1315	0.0338	9.8648e-02	4.1000e+00
135	INT000008	-0.0488	0.3418	0.0332	1.0507e-01	4.1000e+00
136	INT000009	-0.1315	0.2591	0.0326	9.1354e-02	4.1000e+00
137	INT000010	-0.1465	0.2441	0.0566	8.7880e-02	4.1000e+00
138	INT000011	-0.2104	0.1803	-0.0033	6.1257e-02	4.1000e+00
139	INT000012	-0.0563	0.1390	-0.0095	8.4262e-02	4.1000e+00
140	INT000013	-0.2742	0.1164	-0.0711	6.7888e-02	4.1000e+00
141	INT000014	-0.1315	0.4545	0.0716	1.1133e-01	4.1000e+00
142	INT000015	-0.1953	0.1953	0.0312	8.2393e-02	4.1000e+00
143	INT000016	-0.2291	0.1615	-0.0299	6.2265e-02	4.1000e+00
144	INT000017	-0.4432	0.3380	-0.0917	1.8924e-01	4.1000e+00
145	INT000018	-0.1841	0.2066	-0.0551	1.0145e-01	4.1000e+00
146	INT000019	-0.2554	0.1352	-0.0874	9.6735e-02	4.1000e+00
147	INT000020	-0.2554	0.1352	0.0024	1.0014e-01	4.1000e+00
148	INT000021	-0.0826	0.1127	-0.0514	7.2330e-02	4.1000e+00
149	INT000022	-0.2103	-0.0150	-0.0931	9.6655e-02	4.1000e+00
150	INT000023	-0.1127	0.0826	-0.0385	9.5765e-02	4.1000e+00
151	INT000024	-0.0789	0.1164	0.0266	9.8332e-02	4.1000e+00
152	INT000025	-0.2554	0.1352	-0.0562	8.3612e-02	4.1000e+00
153	INT000026	-0.2667	0.1240	-0.0557	6.6498e-02	4.1000e+00
154	INT000027	-0.2254	0.1653	-0.0457	6.6498e-02	4.1000e+00
155	INT000028	-0.2216	0.1690	-0.0536	9.6735e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.2141	0.1765	-0.0032	8.6810e-02	4.1000e+00
157	INT000030	-0.3606	0.2253	-0.0715	1.1995e-01	4.1000e+00
158	INT000031	-0.3305	0.0601	-0.0532	1.0507e-01	4.1000e+00
159	INT000032	-0.2066	0.1840	-0.0152	1.0052e-01	4.1000e+00
160	INT000033	-0.1953	0.1953	0.0078	9.6332e-02	4.1000e+00
161	INT000034	-0.0263	0.1690	0.0440	9.4782e-02	4.1000e+00
162	INT000035	-0.0375	0.1578	0.0445	9.7377e-02	4.1000e+00
163	INT000036	-0.1953	0.1953	0.0117	7.2866e-02	4.1000e+00

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Velocity 1 - 24.0109 (ft/sec) (1/- 1.6952 %)
 Velocity 2 - 13.6794 (ft/sec) (1/- 1.7009 %)
 Pressure drop - 16.2212 (psi)
 Tsat in - 277.8923 (deg F) Tsat out - 254.3030 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (1/- 4393.4082 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (1/- 3048.8767 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.5008	1.4747e-01	1.9000e+00
1	TRF000002	74.4388	74.8621	74.6504	1.4184e-01	1.9000e+00
2	TRF000001	87.3583	87.9883	87.6942	1.8455e-01	1.9002e+00
3	TIN000001	87.0932	87.6194	87.3332	1.6312e-01	1.9002e+00
4	TRV000001	87.2907	88.1271	87.6794	2.1125e-01	1.9002e+00
5	TSR000001	86.7966	87.6343	87.2200	1.7691e-01	1.9002e+00
6	TAO020136	87.5781	88.3135	88.0149	2.1259e-01	1.9002e+00
7	TAO050136	87.5385	88.1670	87.8657	1.5340e-01	1.9002e+00
8	TAO070136	85.1465	86.0946	85.6523	1.8188e-01	1.9002e+00
9	TAO080136	87.4301	87.9539	87.6734	1.3770e-01	1.9002e+00
10	TAO090136	87.5109	88.2449	87.8928	1.8178e-01	1.9002e+00
11	TAO100136	87.4805	88.0052	87.7158	1.2630e-01	1.9002e+00
12	TAO105136	87.8706	88.8159	88.3367	2.4016e-01	1.9002e+00
13	TAO110136	85.0668	85.9049	85.4811	1.7262e-01	1.9002e+00
14	TAO115136	87.3271	88.3785	87.9749	2.4348e-01	1.9002e+00
15	TAO120136	87.2543	87.9848	87.5965	1.5247e-01	1.9002e+00
16	TAO125136	87.5528	88.1822	87.8594	1.4185e-01	1.9002e+00
17	TAO130136	87.2732	87.8997	87.5500	1.4571e-01	1.9002e+00
18	TAO120048	87.3973	88.1315	87.7201	1.6392e-01	1.9002e+00
19	TAO130048	87.1165	87.7455	87.4314	1.4203e-01	1.9002e+00
20	TAO120224	87.1132	87.9527	87.5499	1.8882e-01	1.9002e+00
21	TAO130224	87.2172	87.9483	87.5975	1.4609e-01	1.9002e+00
22	TAO120312	87.1448	87.9850	87.5270	2.0643e-01	1.9002e+00
23	TAO130312	87.1806	87.7058	87.4326	1.5713e-01	1.9002e+00
24	TRT020000	87.5531	88.4989	87.9735	1.8881e-01	1.9002e+00
25	TRT070000	87.5227	88.0509	87.8348	1.6202e-01	1.9002e+00
26	TRT100000	87.7693	88.5027	88.0967	1.7783e-01	1.9002e+00
27	TRT120000	87.4726	88.1026	87.8587	1.6607e-01	1.9002e+00
28	TRT125000	87.5384	88.2702	87.8440	1.8143e-01	1.9002e+00
29	TRT130000	87.2407	87.9742	87.6349	1.6340e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.6470	1.9506e-01	1.9011e+00
31	TAP050136	87.6476	88.2772	88.0000	1.7163e-01	1.9002e+00
32	TAP070136	87.9594	88.6912	88.4066	1.8051e-01	1.9002e+00
33	TAP080136	87.4805	88.3147	87.8306	1.7370e-01	1.9002e+00
34	TAP090136	84.7847	85.8350	85.3605	2.6511e-01	1.9002e+00
35	TAP100136	87.3493	88.0849	87.6980	1.8433e-01	1.9002e+00
36	TAP105136	87.3660	88.3031	87.8531	2.2127e-01	1.9002e+00
37	TAP110136	87.2111	87.9446	87.5342	1.7942e-01	1.9002e+00
38	TAP115136	87.8522	88.5860	88.1419	2.1012e-01	1.9002e+00
39	TAP120136	87.5657	87.9863	87.8094	1.1508e-01	1.9002e+00
40	TAP125136	87.4332	88.4784	88.0019	2.5649e-01	1.9002e+00
41	TAP130136	87.4450	88.1789	87.8185	1.8116e-01	1.9002e+00
42	TAP120048	87.7162	88.5598	88.1880	2.2558e-01	1.9002e+00
43	TAP130048	87.3752	88.1100	87.7572	1.7947e-01	1.9002e+00
44	TAP120224	87.3444	88.1847	87.8400	1.9326e-01	1.9002e+00
45	TAP130224	86.9344	87.6721	87.3176	1.7901e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0756	2.1593e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1510	3.2475e-02	1.9010e+00
48	TAI130138	87.2400	88.4991	87.9622	3.0319e-01	1.9002e+00
49	TAI130226	86.8773	87.8199	87.3593	2.2982e-01	1.9002e+00
50	TAI130314	87.4935	88.6495	88.0188	2.9872e-01	1.9002e+00
51	TAI130042	86.9727	87.7079	87.4219	2.0893e-01	1.9002e+00
52	TAR130090	86.6467	87.5904	87.2125	2.1383e-01	1.9002e+00
53	TSI000001	81.0633	81.8005	81.4803	1.7154e-01	1.9001e+00
54	TSI000002	76.3208	77.2722	76.7821	2.8217e-01	1.9000e+00
55	TSO000001	75.5251	76.2686	75.9033	1.8740e-01	1.9000e+00
56	TSO000002	81.6907	82.7333	82.3877	1.8065e-01	1.9001e+00
57	TAP020136	86.8728	87.6103	87.1723	1.5545e-01	1.9002e+00
58	TAP120312	87.2641	88.1027	87.7001	2.1421e-01	1.9002e+00
59	TAP130312	86.7364	87.4703	87.1219	1.7267e-01	1.9002e+00
60	EMPTY	0.4932	0.4980	0.4955	2.4642e-03	0.0000e+00
61	EMPTY	0.5078	0.5127	0.5110	2.3365e-03	0.0000e+00
62	EMPTY	0.5176	0.5273	0.5233	2.1364e-03	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5393	2.4484e-03	0.0000e+00
64	EMPTY	0.3418	0.3516	0.3455	2.3261e-03	0.0000e+00
65	EMPTY	0.3613	0.3711	0.3657	1.7784e-03	0.0000e+00
66	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3999	1.4797e-03	0.0000e+00
68	EMPTY	0.4102	0.4199	0.4138	2.3778e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4306	1.8950e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4479	2.1635e-03	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4708	2.4344e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4841	1.7115e-03	0.0000e+00
73	EMPTY	0.4980	0.5078	0.5032	1.5314e-03	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5198	2.4583e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5372	6.9053e-04	0.0000e+00
76	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
77	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5952	1.4797e-03	0.0000e+00
79	EMPTY	0.6152	0.6152	0.6152	0.0000e+00	0.0000e+00
80	PAM020136	56.0924	59.3730	57.7022	8.0687e-01	8.8188e-01
81	PAM050136	100.7392	104.7065	103.1043	8.0639e-01	1.6997e+00
82	PAM070136	71.4745	74.1448	72.6983	6.3195e-01	8.8878e-01
83	PAM080136	35.6617	36.9587	36.2598	3.2161e-01	8.7471e-01
84	PAM090136	32.0833	33.1514	32.6417	2.2466e-01	8.7382e-01
85	PAM100136	36.4613	37.6820	37.0060	2.2654e-01	8.7491e-01
86	PAM105136	17.4252	18.1119	17.7518	1.4868e-01	8.7113e-01
87	PAM110136	18.2864	18.7442	18.5031	1.1975e-01	8.7123e-01
88	PAM115136	17.4603	17.9944	17.6679	1.2335e-01	8.7112e-01
89	PAM120136	15.1863	15.6441	15.4274	1.2172e-01	8.7085e-01
90	PAM125136	17.5074	18.1177	17.8064	1.3334e-01	8.7114e-01
91	PAM130136	17.6717	18.2821	18.0105	1.3627e-01	8.7116e-01
92	PAM120048	30.6190	31.7634	31.1195	2.2609e-01	8.7474e-01
93	PAM130048	37.1655	38.5388	37.8980	2.6249e-01	8.7514e-01
94	PAM120224	35.4313	36.3469	35.8875	2.2940e-01	8.7461e-01
95	PAM130224	39.6671	40.8878	40.3126	2.2612e-01	8.7582e-01
96	PAM120312	32.2080	33.1998	32.8427	2.3092e-01	8.7387e-01
97	PAM130312	37.1495	37.9888	37.5234	1.9390e-01	8.7504e-01
98	PAB000136	47.2566	48.1263	47.6145	1.8742e-01	5.9209e-01
99	PAB100136	35.1100	35.3847	35.2272	6.0049e-02	5.8665e-01
100	PAB125136	32.0016	32.1389	32.0528	4.4004e-02	5.8551e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	46.8671	47.9658	47.3261	2.6281e-01	7.5928e-01
102	PRV0000001	26.7021	26.8241	26.7997	4.9324e-02	7.5299e-01
103	PSR0000001	29.0989	29.3430	29.2405	5.1496e-02	7.5355e-01
104	PFH0000001	87.6900	90.2534	88.8618	5.7933e-01	5.4713e-01
105	PAN000136	443.4240	454.4103	449.0911	2.9185e+00	5.0465e+00
106	PFH0000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0095	1.1714e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4482	-9.8027	1.4335e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0042	1.7115e-03	0.0000e+00
112	VPM0000001	-0.0451	0.1502	-0.0216	6.4113e-02	8.1000e-01
113	VPM0000002	-0.2404	0.1502	-0.0334	8.2864e-02	8.1000e-01
114	VPM0000003	-0.0526	0.1427	-0.0292	6.4113e-02	8.1000e-01
115	VPM0000004	-0.3681	0.2178	-0.0947	1.1161e-01	8.1000e-01
116	VPM0000005	-0.1202	0.2704	0.0243	1.2359e-01	8.1000e-01
117	VPM0000006	-0.2216	0.1690	-0.0028	1.0168e-01	8.1000e-01
118	IPM0000001	-2.1775	1.7272	-0.8499	1.1459e+00	8.1000e+00
119	IPM0000002	-2.9267	2.9271	-0.3120	1.1567e+00	8.1000e+00
120	IPM0000003	-2.5499	1.3501	-0.4049	1.1982e+00	8.1000e+00
121	IPM0000004	-0.9015	0.5634	-0.1398	2.9856e-01	2.0000e+00
122	IPM0000005	-0.5633	0.4131	-0.1434	2.4181e-01	2.0000e+00
123	IPM0000006	-0.7043	0.7606	-0.1672	3.4527e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0215	3.6911e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	3.2253e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0146	-0.0173	2.4583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0142	3.3087e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0485	7.8523e-02	4.1000e+00
129	IHT0000002	-0.0263	0.1690	0.0206	8.4262e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0383	7.1136e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0182	9.5357e-02	4.1000e+00
132	IHT0000005	-0.0601	0.3305	0.0219	1.0507e-01	4.1000e+00
133	IHT0000006	-0.3418	0.0488	-0.0996	9.3043e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0533	9.6655e-02	4.1000e+00
135	IHT0000008	-0.2442	0.1465	0.0215	1.0259e-01	4.1000e+00
136	IHT0000009	-0.1315	0.0638	0.0209	8.1729e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0606	7.2866e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	-0.0111	4.8166e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0290	8.8321e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0789	6.8345e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0677	9.2456e-02	4.1000e+00
142	IHT0000015	0.0000	0.1953	0.0351	7.5798e-02	4.1000e+00
143	IHT0000016	-0.0338	0.1615	-0.0065	6.8459e-02	4.1000e+00
144	IHT0000017	-0.2479	0.3380	-0.0565	1.9527e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0278	9.6655e-02	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.0913	9.1354e-02	4.1000e+00
147	IHT0000020	-0.2554	0.3305	-0.0406	9.0412e-02	4.1000e+00
148	IHT0000021	-0.0826	0.3080	-0.0553	7.9017e-02	4.1000e+00
149	IHT0000022	-0.2103	0.1803	-0.1009	1.0559e-01	4.1000e+00
150	IHT0000023	-0.1127	0.0826	-0.0541	9.0412e-02	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.0305	1.0559e-01	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0679	7.8523e-02	4.1000e+00
153	IHT0000026	-0.2667	0.1240	-0.0596	6.1257e-02	4.1000e+00
154	IHT0000027	-0.2254	-0.0300	-0.0496	5.9189e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0419	1.1049e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2141	0.1765	0.0085	7.9017e-02	4.1000e+00
157	IHT0000030	-0.1653	0.2253	-0.0812	1.0507e-01	4.1000e+00
158	IHT0000031	-0.1352	0.2554	-0.0336	1.0617e-01	4.1000e+00
159	IHT0000032	-0.2066	0.1840	-0.0074	6.2265e-02	4.1000e+00
160	IHT0000033	-0.1953	0.1953	0.0000	6.8345e-02	4.1000e+00
161	IHT0000034	-0.2216	0.1690	0.0479	1.0358e-01	4.1000e+00
162	IHT0000035	-0.2329	0.3531	0.0210	1.1334e-01	4.1000e+00
163	IHT0000036	-0.1953	0.1953	0.0156	8.6810e-02	4.1000e+00

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Velocity 1 - 22.0016 (ft/sec) (+/- 1.7050 %)
 Velocity 2 - 13.6803 (ft/sec) (+/- 1.7009 %)
 Pressure drop - 13.0436 (psi)
 T_{sat} in - 273.0769 (deg F) T_{sat} out - 253.2821 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft²) (+/- 43664.2500 %)
 Phi outer - 0.0000 (kBtu/hr-ft²) (+/- 5125.4517 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.2113	74.8498	74.5732	1.7334e-01	1.9000e+00
1	TRF0000002	74.4388	74.8621	74.6928	1.0475e-01	1.9000e+00
2	TRF0000001	88.0917	88.8247	88.4793	1.6816e-01	1.9002e+00
3	TIN0000001	87.8292	88.2499	88.0877	1.1271e-01	1.9002e+00
4	TRV0000001	87.8118	88.7536	88.4249	2.2252e-01	1.9002e+00
5	TSR0000001	87.5276	88.1568	87.8903	1.5288e-01	1.9002e+00
6	TAO020136	88.2078	89.2579	88.7772	2.6414e-01	1.9002e+00
7	TAO050136	88.1655	88.8974	88.5769	1.5442e-01	1.9002e+00
8	TAO070136	85.7794	86.6222	86.2785	1.8036e-01	1.9002e+00
9	TAO080136	88.0561	88.6842	88.4012	1.4526e-01	1.9002e+00
10	TAO090136	88.1402	88.9777	88.6275	1.8520e-01	1.9002e+00
11	TAO100136	88.1088	88.7385	88.4175	1.5485e-01	1.9002e+00
12	TAO105136	88.6055	89.3404	89.0234	1.9147e-01	1.9002e+00
13	TAO110136	85.7969	86.4263	86.0971	1.5967e-01	1.9002e+00
14	TAO115136	88.2737	89.1147	88.6755	2.0666e-01	1.9002e+00
15	TAO120136	88.0852	88.6081	88.2892	1.1862e-01	1.9002e+00
16	TAO125136	88.2856	88.9151	88.5608	1.6110e-01	1.9002e+00
17	TAO130136	87.9973	88.6241	88.2302	1.2710e-01	1.9002e+00
18	TAO120048	88.0257	88.7596	88.4093	1.5658e-01	1.9002e+00
19	TAO130048	87.8477	88.4769	88.1603	1.5181e-01	1.9002e+00
20	TAO120224	87.9518	88.6866	88.2816	1.7351e-01	1.9002e+00
21	TAO130224	88.0487	88.6769	88.3026	1.4184e-01	1.9002e+00
22	TAO120312	87.9843	88.6142	88.2761	1.4418e-01	1.9002e+00
23	TAO130312	87.9135	88.4378	88.1754	1.2935e-01	1.9002e+00
24	TRT020000	88.3941	89.1296	88.7116	1.9168e-01	1.9002e+00
25	TRT070000	88.1562	88.7887	88.5460	1.2623e-01	1.9002e+00
26	TRT100000	88.2928	89.2344	88.7806	2.0785e-01	1.9002e+00
27	TRT120000	88.2056	88.8353	88.5394	1.6775e-01	1.9002e+00
28	TRT125000	88.1638	88.9999	88.5838	1.8330e-01	1.9002e+00
29	TRT130000	88.0769	88.7062	88.3353	1.5003e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6561	2.2857e-01	1.9011e+00
31	TAF050136	88.3795	88.9041	88.7047	1.3918e-01	1.9002e+00
32	TAF070136	88.7932	89.5256	89.0763	1.8544e-01	1.9002e+00
33	TAF080136	88.2075	88.8358	88.5155	1.5133e-01	1.9002e+00
34	TAF090136	85.4143	86.3598	85.9837	2.4463e-01	1.9002e+00
35	TAF100136	88.0839	88.8196	88.3975	1.6909e-01	1.9002e+00
36	TAF105136	88.0952	89.0317	88.5044	2.0778e-01	1.9002e+00
37	TAF110136	87.9437	88.7810	88.2682	1.6016e-01	1.9002e+00
38	TAF115136	88.4808	89.4234	88.8516	1.9417e-01	1.9002e+00
39	TAF120136	88.2972	88.7175	88.5012	1.1107e-01	1.9002e+00
40	TAF125136	88.0592	89.3106	88.7038	2.6204e-01	1.9002e+00
41	TAF130136	88.1782	88.8072	88.5365	1.4529e-01	1.9002e+00
42	TAF120048	88.4551	89.4028	88.9414	2.2113e-01	1.9002e+00
43	TAF130048	88.1084	88.7382	88.4842	1.3911e-01	1.9002e+00
44	TAF120224	88.0787	89.9185	88.5974	1.4599e-01	1.9002e+00
45	TAF130224	87.6731	88.4103	88.0539	1.6472e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0848	2.1230e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1602	5.5089e-02	1.9010e+00
48	TAI130138	88.1840	89.3381	88.6648	2.8511e-01	1.9002e+00
49	TAI130226	87.5046	88.4472	88.0765	2.2198e-01	1.9002e+00
50	TAI130314	88.2289	89.2791	88.7815	2.8923e-01	1.9002e+00
51	TAI130042	87.6025	88.4420	88.1250	1.9373e-01	1.9002e+00
52	TRR130090	87.3798	88.2183	87.8931	2.1293e-01	1.9002e+00
53	TSI0000001	81.6946	82.2217	81.9833	1.4715e-01	1.9001e+00
54	TSI0000002	76.5327	77.5894	77.2277	2.6048e-01	1.9000e+00
55	TSO0000001	75.7375	76.4813	76.0798	1.7482e-01	1.9000e+00
56	TSO0000002	82.1007	82.9441	82.5542	1.8950e-01	1.9001e+00
57	TAF020136	87.5060	88.2438	87.9338	1.7480e-01	1.9002e+00
58	TAF120312	87.8928	88.7315	88.3518	2.3376e-01	1.9002e+00
59	TAF130312	87.5728	88.2024	87.8647	1.5313e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5116	2.0432e-03	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5262	2.1065e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5379	1.8082e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5541	2.4642e-03	0.0000e+00
64	EMPTY	0.3467	0.3516	0.3513	1.1714e-03	0.0000e+00
65	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3888	6.9053e-04	0.0000e+00
67	EMPTY	0.4004	0.4102	0.4054	1.2041e-03	0.0000e+00
68	EMPTY	0.4199	0.4199	0.4199	0.0000e+00	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4371	2.4642e-03	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4540	6.9053e-04	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4775	1.9730e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4901	2.3941e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5092	2.2146e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5265	1.8950e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5422	9.6655e-04	0.0000e+00
76	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5763	6.9053e-04	0.0000e+00
78	EMPTY	0.5957	0.6006	0.6005	6.9053e-04	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6244	1.6028e-03	0.0000e+00
80	PAN020136	45.1824	48.0815	46.4275	6.1296e-01	8.7771e-01
81	PAN050136	80.5976	83.9546	82.8895	6.6296e-01	1.6927e+00
82	PAN070136	56.7498	59.8016	58.4344	6.2570e-01	8.8218e-01
83	PAN080136	28.4900	29.4818	28.9554	2.4529e-01	8.7301e-01
84	PAN090136	25.7509	26.5138	26.1537	1.7373e-01	8.7245e-01
85	PAN100136	29.4423	30.1289	29.8573	1.7920e-01	8.7320e-01
86	PAN105136	13.9920	14.4498	14.2667	1.0340e-01	8.7073e-01
87	PAN110136	14.7006	15.1584	14.8639	1.0109e-01	8.7079e-01
88	PAN115136	13.9508	14.5612	14.3124	1.1618e-01	8.7074e-01
89	PAN120136	11.9057	12.2871	12.1590	9.9224e-02	8.7053e-01
90	PAN125136	13.9215	14.4556	14.1626	9.9128e-02	8.7072e-01
91	PAN130136	14.3911	14.8488	14.5833	9.4061e-02	8.7076e-01
92	PAN120048	24.6680	25.5073	25.1151	1.5644e-01	8.7226e-01
93	PAN130048	29.9939	30.9857	30.5325	1.8068e-01	8.7334e-01
94	PAN120224	28.5649	29.3278	28.9601	1.6579e-01	8.7301e-01
95	PAN130224	31.8852	32.9533	32.4970	1.7472e-01	8.7379e-01
96	PAN120312	25.9519	26.7911	26.3333	1.8238e-01	8.7249e-01
97	PAN130312	29.9779	30.6645	30.2159	1.5842e-01	8.7327e-01
98	PAB000136	43.6402	44.1895	43.9936	1.1366e-01	5.9034e-01
99	PAB100136	33.9198	34.1487	34.0480	5.9218e-02	5.8621e-01
100	PAB125136	31.4065	31.5896	31.4971	4.2872e-02	5.8532e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	43.5712	44.6699	43.9448	2.1977e-01	7.5800e-01
102	PRV000001	26.7021	26.8241	26.8217	1.7263e-02	7.5299e-01
103	PSR000001	29.0989	29.3430	29.2234	3.0104e-02	7.5355e-01
104	PFH000001	73.7739	75.4219	74.5485	3.8808e-01	5.3360e-01
105	PAN000136	155.9911	368.3507	361.1181	2.4010e+00	5.0021e+00
106	PFH000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0085	2.1635e-03	0.0000e+00
108	EMPTY	-10.0000	-9.3457	-9.8045	1.8801e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0036	2.1635e-03	0.0000e+00
112	VPW000001	-0.2404	0.1502	-0.0060	8.8233e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0529	8.7880e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	0.0021	9.6976e-02	8.1000e-01
115	VPW000004	-0.1728	0.2178	-0.0751	1.1334e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0282	1.0106e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0011	1.0447e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.5918	9.8608e-01	8.1000e+00
119	IPW000002	-2.9267	2.9271	-0.2730	1.0982e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.6779	1.1115e+00	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.2570	2.6908e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.3094	3.1564e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1965	3.2658e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0216	3.2851e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0142	3.3087e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0178	3.2359e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0156	2.9594e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0446	1.0741e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0010	9.6735e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0071	8.2864e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0104	9.3710e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0102	9.4702e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.1192	9.6735e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0338	9.8648e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0137	9.2034e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0326	8.2393e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0449	9.2456e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0072	5.5243e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0212	1.0206e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0750	8.3612e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0756	1.0741e-01	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0273	6.8459e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0799	2.1253e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0512	1.0763e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0952	1.0206e-01	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0289	9.9512e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0514	8.2393e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1283	9.7377e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0619	8.6541e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0422	9.5765e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0679	7.8523e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0557	6.6498e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0457	8.6810e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0380	1.0741e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0007	7.1136e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0793	1.1272e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0376	1.1334e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0113	8.8233e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0039	8.3612e-02	4.1000e+00
161	IHT000034	-0.2216	0.3643	0.0518	1.1161e-01	4.1000e+00
162	IHT000035	-0.0375	0.3531	0.0367	1.0358e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0313	9.1354e-02	4.1000e+00

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Velocity 1 = 20.0748 (ft/sec) (+/- 1.7196 %)
 Velocity 2 = 13.6797 (ft/sec) (+/- 1.7009 %)
 Pressure drop = 10.1854 (psi)
 Tsat in = 268.3803 (deg F) Tsat out = 252.1361 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 81821.3047 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 2380.4453 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.2113	74.8498	74.5945	1.6089e-01	1.9000e+00
1	TRF000002	74.4388	75.0738	74.7690	1.2943e-01	1.9000e+00
2	TRF000001	87.5683	88.3023	87.9918	1.9516e-01	1.9002e+00
3	TIN000001	87.1985	87.9343	87.6610	1.6308e-01	1.9002e+00
4	TRV000001	87.3948	88.3358	87.8178	2.0918e-01	1.9002e+00
5	TSR000001	87.8416	88.4687	88.2139	1.4372e-01	1.9002e+00
6	TNO020136	87.7883	88.8381	88.3214	2.5534e-01	1.9002e+00
7	TNO050136	87.7486	88.4807	88.1541	1.5632e-01	1.9002e+00
8	TNO070136	85.6734	86.5163	86.1413	1.9050e-01	1.9002e+00
9	TNO080136	87.7439	88.2676	88.0118	1.6806e-01	1.9002e+00
10	TNO090136	87.7203	88.5593	88.2280	1.8497e-01	1.9002e+00
11	TNO100136	87.6899	88.3198	88.0553	1.7375e-01	1.9002e+00
12	TNO105136	88.1854	89.1304	88.6517	2.0143e-01	1.9002e+00
13	TNO110136	85.5885	86.2180	85.9496	1.6138e-01	1.9002e+00
14	TNO115136	87.8529	88.5889	88.2482	1.8826e-01	1.9002e+00
15	TNO120136	87.6695	88.2973	87.9385	1.4065e-01	1.9002e+00
16	TNO125136	87.8675	88.6007	88.1778	1.6799e-01	1.9002e+00
17	TNO130136	87.5844	88.2114	87.8739	1.5149e-01	1.9002e+00
18	TNO120048	87.7115	88.3403	88.0303	1.5848e-01	1.9002e+00
19	TNO130048	87.4307	88.0595	87.7444	1.5120e-01	1.9002e+00
20	TNO120224	87.5330	88.2675	87.8897	1.6696e-01	1.9002e+00
21	TNO130224	87.6331	88.2614	87.9228	1.6852e-01	1.9002e+00
22	TNO120312	87.5646	88.2995	87.8963	1.8648e-01	1.9002e+00
23	TNO130312	87.3898	88.0196	87.8012	1.5549e-01	1.9002e+00
24	TRT020000	87.8683	88.7098	88.2930	2.0912e-01	1.9002e+00
25	TRT070000	87.8391	88.3655	88.1340	1.3609e-01	1.9002e+00
26	TRT100000	87.8746	88.7126	88.4149	2.0545e-01	1.9002e+00
27	TRT120000	87.7873	88.4166	88.1689	1.6787e-01	1.9002e+00
28	TRT125000	87.7467	88.5836	88.1781	1.8370e-01	1.9002e+00
29	TRT130000	87.6589	88.2884	87.9864	1.5935e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6102	2.1500e-01	1.9011e+00
31	TAF050136	87.7529	88.5908	88.2889	1.7785e-01	1.9002e+00
32	TAF070136	88.2728	89.1082	88.6742	1.8698e-01	1.9002e+00
33	TAF080136	87.8967	88.4199	88.1852	1.5325e-01	1.9002e+00
34	TAF090136	85.2050	86.3593	85.7929	2.8447e-01	1.9002e+00
35	TAF100136	87.6643	88.3997	87.9962	1.7154e-01	1.9002e+00
36	TAF105136	87.5740	88.5130	88.0828	2.2844e-01	1.9002e+00
37	TAF110136	87.5255	88.1536	87.8566	1.5177e-01	1.9002e+00
38	TAF115136	87.9575	88.7953	88.4268	2.0873e-01	1.9002e+00
39	TAF120136	87.8794	88.2999	88.1275	1.2144e-01	1.9002e+00
40	TAF125136	87.8515	88.7911	88.3566	2.8221e-01	1.9002e+00
41	TAF130136	87.7591	88.5975	88.1663	1.8412e-01	1.9002e+00
42	TAF120048	88.0309	88.8761	88.5463	2.3585e-01	1.9002e+00
43	TAF130048	87.5847	88.4241	88.0884	1.9651e-01	1.9002e+00
44	TAF120224	87.6596	88.4991	88.1422	2.3319e-01	1.9002e+00
45	TAF130224	87.2504	87.9878	87.6421	1.7545e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.4572	38.0618	2.4155e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1556	4.5456e-02	1.9010e+00
48	TAI130138	87.5552	88.9184	88.3481	3.1365e-01	1.9002e+00
49	TAI130226	87.1917	87.9252	87.6482	1.7674e-01	1.9002e+00
50	TAI130314	87.8085	88.9642	88.3759	2.7344e-01	1.9002e+00
51	TAI130042	87.2874	88.0225	87.7200	1.9045e-01	1.9002e+00
52	TRR130090	87.1704	88.1137	87.5520	2.2776e-01	1.9002e+00
53	TSI000001	81.9044	82.5372	82.2841	1.6758e-01	1.9001e+00
54	TSI000002	76.4271	77.4840	77.0358	2.7031e-01	1.9000e+00
55	TSO0000001	75.3122	76.0564	75.7369	1.8719e-01	1.9000e+00
56	TSO0000002	82.5218	83.3649	82.9225	2.2012e-01	1.9001e+00
57	TAF020136	87.0844	87.9266	87.4883	1.8221e-01	1.9002e+00
58	TAF120312	87.3689	88.4169	87.8805	2.5732e-01	1.9002e+00
59	TAF130312	86.9457	87.7842	87.4528	1.5326e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4990	1.9730e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5132	1.4797e-03	0.0000e+00
62	EMPTY	0.5273	0.5273	0.5273	0.0000e+00	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5432	2.1065e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3449	2.3675e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3658	1.3381e-03	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3810	6.9053e-04	0.0000e+00
67	EMPTY	0.3955	0.4004	0.4000	1.3381e-03	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4142	1.8950e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4298	6.9053e-04	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4469	2.4642e-03	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4695	1.8082e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4836	9.6655e-04	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5183	1.7115e-03	0.0000e+00
75	EMPTY	0.5371	0.5371	0.5371	0.0000e+00	0.0000e+00
76	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
77	EMPTY	0.5713	0.5713	0.5713	0.0000e+00	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5945	2.1065e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6155	1.1714e-03	0.0000e+00
80	PAN020136	35.1115	37.9344	36.4543	5.6128e-01	8.7476e-01
81	PAN050136	63.5078	65.7966	64.6522	5.8267e-01	1.6878e+00
82	PAN070136	44.6954	46.9842	45.7909	5.2197e-01	8.7750e-01
83	PAN080136	22.0813	23.1494	22.5635	2.2146e-01	8.7183e-01
84	PAN090136	19.7999	20.4866	20.1555	1.4010e-01	8.7146e-01
85	PAN100136	23.1099	23.7202	23.4532	1.4064e-01	8.7197e-01
86	PAN105136	10.8639	11.3217	11.0608	9.2598e-02	8.7044e-01
87	PAN110136	11.4963	11.8778	11.7084	1.0024e-01	8.7049e-01
88	PAN115136	11.3568	11.7383	11.5323	1.1353e-01	8.7048e-01
89	PAN120136	8.8539	9.1591	9.0324	8.9360e-02	8.7029e-01
90	PAN125136	10.7935	11.1750	10.9766	9.3758e-02	8.7043e-01
91	PAN130136	11.2630	11.6445	11.4492	9.1397e-02	8.7047e-01
92	PAN120048	19.4801	20.0141	19.7822	1.2133e-01	8.7140e-01
93	PAN130048	23.6615	24.2719	23.9590	1.4804e-01	8.7206e-01
94	PAN120224	22.3851	22.9954	22.7162	1.4509e-01	8.7185e-01
95	PAN130224	25.2476	25.8579	25.5222	1.5491e-01	8.7234e-01
96	PAN120312	20.1535	20.6876	20.4526	1.1414e-01	8.7150e-01
97	PAN130312	23.3403	23.9507	23.7325	1.3873e-01	8.7202e-01
98	PAB000136	40.4817	40.9852	40.6840	1.0344e-01	5.8885e-01
99	PAB100136	32.7754	32.9585	32.8651	3.8087e-02	5.8579e-01
100	PAB125136	30.8114	30.9487	30.8837	4.3467e-02	5.8512e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	40.0312	40.7636	40.4487	1.6560e-01	7.5679e-01
102	PRV000001	26.7021	26.8241	26.7094	2.9284e-02	7.5297e-01
103	PSR000001	28.9768	29.0989	29.0842	4.0071e-02	7.5352e-01
104	PFH000001	61.4143	62.5130	62.0167	2.6553e-01	5.2349e-01
105	PAN000136	278.6291	286.4110	281.9891	1.7218e+00	4.9703e+00
106	PFH000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0068	2.4164e-03	0.0000e+00
108	EMPTY	-10.0000	-9.2285	-9.7486	1.9121e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0027	2.4484e-03	0.0000e+00
112	VPM000001	-0.0451	0.1502	-0.0255	5.9189e-02	8.1000e-01
113	VPM000002	-0.2404	0.1502	-0.0451	7.8918e-02	8.1000e-01
114	VPM000003	-0.2479	0.1427	0.0021	9.6976e-02	8.1000e-01
115	VPM000004	-0.1728	0.0225	-0.0673	9.8332e-02	8.1000e-01
116	VPM000005	-0.1202	0.0751	0.0126	9.2034e-02	8.1000e-01
117	VPM000006	-0.2216	0.1690	-0.0185	8.7880e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-0.9280	1.1674e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.6636	1.0695e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.4439	1.0303e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2667	2.2603e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2020	2.5740e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0695	3.3087e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0211	3.4793e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.6562e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0180	2.8659e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0140	3.6924e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0524	8.3612e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0206	9.3043e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0422	8.4997e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0377	4.8166e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0024	9.2034e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0918	8.8585e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0416	9.8332e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0293	9.6655e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0599	8.3612e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0566	7.8523e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0033	6.1257e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0173	8.8233e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0671	6.1257e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0756	7.2866e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0234	6.4113e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0260	3.8662e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0487	1.5530e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0551	1.0885e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.0796	9.8648e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0250	8.5454e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0358	8.4262e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1009	9.7935e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0502	9.2034e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0696	9.3043e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0640	9.2456e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0518	5.9189e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0418	6.1257e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0497	1.0907e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.3718	0.0085	7.9017e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0559	1.2577e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0297	1.1975e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0191	7.8523e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0195	9.8648e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0479	9.5765e-02	4.1000e+00
162	IHT000035	-0.0375	0.1578	0.0406	9.6655e-02	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0117	6.1257e-02	4.1000e+00

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Velocity 1 - 17.9844 (ft/sec) (+/- 1.7456 %)
 Velocity 2 - 13.6779 (ft/sec) (+/- 1.7009 %)
 Pressure drop - 7.4500 (psi)
 Tsat in - 263.5605 (deg F) Tsat out - 251.1502 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 5945.4712 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 3035.8711 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.4242	75.0626	74.6455	1.8222e-01	1.9000e+00
1	TRF000002	74.6505	74.8621	74.7690	1.0614e-01	1.9000e+00
2	TIN000001	86.1017	86.8365	86.4419	1.9147e-01	1.9002e+00
3	TIN000001	85.7257	86.4625	86.1214	1.6272e-01	1.9002e+00
4	TRV000001	85.8279	86.7706	86.3475	2.2492e-01	1.9002e+00
5	TSR000001	87.4243	88.0516	87.7510	1.4457e-01	1.9002e+00
6	TAO020136	86.2112	87.1576	86.8085	2.3792e-01	1.9002e+00
7	TAO050136	86.2880	87.0210	86.6317	1.6809e-01	1.9002e+00
8	TAO070136	84.8294	85.9892	85.1920	2.3157e-01	1.9002e+00
9	TAO080136	86.0752	86.7049	86.4439	1.4409e-01	1.9002e+00
10	TAO090136	86.2545	87.0939	86.6785	2.0222e-01	1.9002e+00
11	TAO100136	86.2234	86.7492	86.4714	1.4366e-01	1.9002e+00
12	TAO105136	86.7142	87.4501	87.1137	1.9350e-01	1.9002e+00
13	TAO110136	84.6518	85.3848	84.9997	1.6997e-01	1.9002e+00
14	TAO115136	86.2733	87.0102	86.7071	2.1657e-01	1.9002e+00
15	TAO120136	86.1109	86.7400	86.4082	1.6445e-01	1.9002e+00
16	TAO125136	86.2963	87.0310	86.6532	1.7620e-01	1.9002e+00
17	TAO130136	86.0369	86.7618	86.3582	1.6713e-01	1.9002e+00
18	TAO120048	86.2443	86.8750	86.5259	1.8789e-01	1.9002e+00
19	TAO130048	85.8639	86.5976	86.2288	1.3957e-01	1.9002e+00
20	TAO120224	86.0644	86.5899	86.3587	1.6445e-01	1.9002e+00
21	TAO130224	86.0744	86.7035	86.4009	1.6214e-01	1.9002e+00
22	TAO120312	85.8846	86.8304	86.3429	2.0009e-01	1.9002e+00
23	TAO130312	86.0299	86.5549	86.2317	1.6421e-01	1.9002e+00
24	TRT020000	86.3946	87.2367	86.7693	1.8436e-01	1.9002e+00
25	TRT070000	86.3601	86.8882	86.6341	1.6076e-01	1.9002e+00
26	TRT100000	86.5144	87.2486	86.8795	2.2148e-01	1.9002e+00
27	TRT120000	86.2155	86.9504	86.6354	1.8740e-01	1.9002e+00
28	TRT125000	86.2893	87.1255	86.6572	1.7847e-01	1.9002e+00
29	TRT130000	85.9870	86.8250	86.4266	1.7737e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6607	1.9433e-01	1.9011e+00
31	TAF050136	86.3932	87.1273	86.6870	1.8723e-01	1.9002e+00
32	TAF070136	86.6028	87.7534	87.1261	2.2862e-01	1.9002e+00
33	TAF080136	86.2312	87.0686	86.6286	1.8079e-01	1.9002e+00
34	TAF090136	84.2604	85.4161	84.8321	2.6687e-01	1.9001e+00
35	TAF100136	86.0874	86.8237	86.4448	1.8283e-01	1.9002e+00
36	TAF105136	86.1171	87.1625	86.5436	2.7495e-01	1.9002e+00
37	TAF110136	86.0609	86.6898	86.3172	1.7113e-01	1.9002e+00
38	TAF115136	86.4910	87.3310	86.9233	2.1576e-01	1.9002e+00
39	TAF120136	86.3122	86.8370	86.5475	1.4779e-01	1.9002e+00
40	TAF125136	86.1846	87.3338	86.7281	2.8613e-01	1.9002e+00
41	TAF130136	86.1887	86.9234	86.5917	1.6066e-01	1.9002e+00
42	TAF120048	86.4466	87.3964	86.9447	2.3069e-01	1.9002e+00
43	TAF130048	86.0127	86.7478	86.5083	1.7110e-01	1.9002e+00
44	TAF120224	86.2944	87.0301	86.6266	1.6221e-01	1.9002e+00
45	TAF130224	85.6656	86.4040	86.0792	1.9037e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.0756	2.2570e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1556	4.5456e-02	1.9010e+00
48	TAI130138	86.0851	87.3458	86.7913	2.9710e-01	1.9002e+00
49	TAI130226	85.7272	86.4615	86.1300	2.1118e-01	1.9002e+00
50	TAI130314	86.1255	87.4931	86.7400	3.0752e-01	1.9002e+00
51	TAI130042	85.8171	86.5530	86.1452	1.9539e-01	1.9002e+00
52	TRR130090	85.9133	86.8576	86.2913	2.4157e-01	1.9002e+00
53	TSI000001	82.2205	82.9576	82.4818	1.9990e-01	1.9001e+00
54	TSI000002	75.7942	76.8509	76.3983	2.6581e-01	1.9000e+00
55	TSO0000001	74.1398	75.0977	74.6294	1.9581e-01	1.9000e+00
56	TSO0000002	81.5746	82.4184	81.8952	2.1819e-01	1.9001e+00
57	TAP020136	85.4995	86.3433	85.9299	1.9740e-01	1.9002e+00
58	TAP120312	85.6910	86.8458	86.3838	2.9766e-01	1.9002e+00
59	TAP130312	85.5849	86.2156	85.8664	1.7034e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4783	9.6655e-04	0.0000e+00
62	EMPTY	0.4883	0.4980	0.4930	1.3811e-03	0.0000e+00
63	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
64	EMPTY	0.3271	0.3320	0.3273	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3470	1.1714e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3654	1.8082e-03	0.0000e+00
67	EMPTY	0.3809	0.3906	0.3821	2.3778e-03	0.0000e+00
68	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4346	0.4300	1.1714e-03	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4542	6.9053e-04	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4688	6.9053e-04	0.0000e+00
73	EMPTY	0.4834	0.4932	0.4883	9.8648e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5223	9.6655e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5565	6.9053e-04	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5799	2.1065e-03	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6009	1.1714e-03	0.0000e+00
80	PAN020136	25.1170	27.3296	26.4202	4.7828e-01	8.7250e-01
81	PAN050136	45.9602	47.9438	47.0070	5.2408e-01	1.6841e+00
82	PAN070136	32.3357	34.6245	33.5702	4.5141e-01	8.7404e-01
83	PAN080136	16.1304	16.8933	16.5165	1.7192e-01	8.7098e-01
84	PAN090136	14.3068	14.7645	14.5402	1.1159e-01	8.7076e-01
85	PAN100136	16.8538	17.5404	17.1940	1.6472e-01	8.7106e-01
86	PAN105136	7.8122	8.2700	8.0777	1.1559e-01	8.7023e-01
87	PAN110136	8.3682	8.7497	8.5834	8.8128e-02	8.7026e-01
88	PAN115136	8.3814	8.8391	8.6179	8.7533e-02	8.7027e-01
89	PAN120136	6.0310	6.3362	6.1882	8.3590e-02	8.7014e-01
90	PAN125136	7.6654	8.0469	7.7738	8.1693e-02	8.7022e-01
91	PAN130136	8.4402	8.8216	8.5927	9.3758e-02	8.7027e-01
92	PAN120048	14.5210	15.1313	14.7590	1.3841e-01	8.7078e-01
93	PAN130048	17.2528	17.8632	17.5458	1.2929e-01	8.7111e-01
94	PAN120224	16.4341	17.1208	16.6844	1.3617e-01	8.7100e-01
95	PAN130224	18.5337	19.0678	18.8221	1.2738e-01	8.7127e-01
96	PAN120312	14.5841	15.1944	14.8419	1.2606e-01	8.7079e-01
97	PAN130312	17.1605	17.9234	17.4687	1.3434e-01	8.7110e-01
98	PAB0000136	37.3231	37.7351	37.5163	1.0876e-01	5.8753e-01
99	PAB100136	31.7225	31.8599	31.7912	3.9508e-02	5.8542e-01
100	PAB125136	30.3078	30.4452	30.3646	3.9843e-02	5.8495e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	36.9794	37.7119	37.3042	1.9669e-01	7.5578e-01
102	PRV0000001	26.4579	26.7021	26.5849	3.4527e-02	7.5294e-01
103	PSR0000001	28.8547	29.2209	28.9597	6.0459e-02	7.5349e-01
104	PFM0000001	49.1463	50.3364	49.7322	2.7990e-01	5.1523e-01
105	PAN000136	200.8092	211.7956	206.2566	2.1175e+00	4.9469e+00
106	PFM0000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0058	1.8950e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4385	-9.7768	1.3888e-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	0.0098	0.0018	2.5648e-03	0.0000e+00
112	VPW0000001	-0.0451	0.1502	-0.0138	7.2330e-02	8.1000e-01
113	VPW0000002	-0.2404	0.1502	-0.0295	6.6498e-02	8.1000e-01
114	VPW0000003	-0.0526	0.1427	0.0138	9.3461e-02	8.1000e-01
115	VPW0000004	-0.1728	0.2178	-0.0634	1.0559e-01	8.1000e-01
116	VPW0000005	-0.1202	0.2704	0.0048	1.0992e-01	8.1000e-01
117	VPW0000006	-0.2216	0.1690	-0.0458	7.1136e-02	8.1000e-01
118	IPW0000001	-2.1775	1.7272	-1.1233	1.1302e+00	8.1000e+00
119	IPW0000002	-0.9755	2.9271	0.6246	1.2271e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	0.1801	1.0423e+00	8.1000e+00
121	IPW0000004	-0.4132	0.0751	-0.2472	2.3365e-01	2.0000e+00
122	IPW0000005	-0.5633	0.4131	-0.3094	2.6541e-01	2.0000e+00
123	IPW0000006	-0.7043	0.2723	-0.0500	2.8946e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0209	3.6963e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0146	2.9594e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0181	2.6562e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0154	3.3249e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0524	7.3716e-02	4.1000e+00
129	IHT0000002	-0.0263	0.1690	0.0245	8.6541e-02	4.1000e+00
130	IHT0000003	0.0188	0.2141	0.0305	4.6855e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0260	5.5243e-02	4.1000e+00
132	IHT0000005	-0.0601	0.3305	0.0298	1.0595e-01	4.1000e+00
133	IHT0000006	-0.1465	0.0488	-0.0957	8.6541e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0651	9.3461e-02	4.1000e+00
135	IHT0000008	-0.0488	0.1465	0.0215	9.4702e-02	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0482	6.6498e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0332	7.7324e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	-0.0150	5.5804e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0329	8.4997e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0750	7.3716e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0521	9.1779e-02	4.1000e+00
142	IHT0000015	-0.1953	0.1953	0.0156	6.6498e-02	4.1000e+00
143	IHT0000016	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
144	IHT0000017	-0.4432	0.1427	-0.0878	1.2901e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0630	1.1084e-01	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.0992	1.0440e-01	4.1000e+00
147	IHT0000020	-0.2554	0.1352	-0.0171	9.0756e-02	4.1000e+00
148	IHT0000021	-0.2779	0.1127	-0.0553	7.9017e-02	4.1000e+00
149	IHT0000022	-0.2103	-0.0150	-0.0892	9.5765e-02	4.1000e+00
150	IHT0000023	-0.3080	0.0826	-0.0306	1.1223e-01	4.1000e+00
151	IHT0000024	-0.0789	0.1164	0.0500	9.3461e-02	4.1000e+00
152	IHT0000025	-0.4507	0.1352	-0.0601	9.6655e-02	4.1000e+00
153	IHT0000026	-0.0714	0.1240	-0.0479	6.4113e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0261	6.2265e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0380	9.1779e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0188	0.1765	-0.0032	5.3525e-02	4.1000e+00
157	IHT0000030	-0.1653	0.0300	-0.0754	9.8332e-02	4.1000e+00
158	IHT0000031	-0.1352	0.0601	-0.0376	9.8648e-02	4.1000e+00
159	IHT0000032	-0.2066	0.1840	-0.0113	6.8345e-02	4.1000e+00
160	IHT0000033	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
161	IHT0000034	-0.0263	0.3643	0.0518	1.0440e-01	4.1000e+00
162	IHT0000035	-0.0375	0.1578	0.0406	9.6655e-02	4.1000e+00
163	IHT0000036	-0.1953	0.1953	0.0195	7.1136e-02	4.1000e+00

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Velocity 1 - 15.9730 (ft/sec) (+/- 1.7893 %)
 Velocity 2 - 13.6773 (ft/sec) (+/- 1.7009 %)
 Pressure drop - 4.9963 (psi)
 Tsat in - 258.9413 (deg F) Tsat out - 250.1901 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 2548.7205 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 57494.9102 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.4242	74.8498	74.6540	1.8161e-01	1.9000e+00
1	TRF0000002	74.4388	75.0738	74.7901	1.3929e-01	1.9000e+00
2	TRF0000001	85.5774	86.4174	85.9241	2.1964e-01	1.9002e+00
3	TIN0000001	85.1996	85.8310	85.5509	1.6001e-01	1.9002e+00
4	TRV0000001	85.4096	86.2485	85.8354	1.9561e-01	1.9002e+00
5	TSR0000001	86.5891	87.4270	87.0519	1.7590e-01	1.9002e+00
6	TAO020136	85.6855	86.7371	86.1712	2.5139e-01	1.9002e+00
7	TAO050136	85.6616	86.3949	86.0661	1.7599e-01	1.9002e+00
8	TAO070136	84.4072	85.2509	84.7889	1.6762e-01	1.9001e+00
9	TAO080136	85.5528	86.2871	85.8826	1.4527e-01	1.9002e+00
10	TAO090136	85.7303	86.4653	86.1399	1.8154e-01	1.9002e+00
11	TAO100136	85.5941	86.2245	85.9073	1.5533e-01	1.9002e+00
12	TAO105136	86.0831	86.8194	86.5228	2.0893e-01	1.9002e+00
13	TAO110136	84.2347	84.9679	84.6266	1.5811e-01	1.9001e+00
14	TAO115136	85.5360	86.5889	86.0769	2.4354e-01	1.9002e+00
15	TAO120136	85.3814	86.1152	85.8110	1.6563e-01	1.9002e+00
16	TAO125136	85.7721	86.4023	86.0852	1.6085e-01	1.9002e+00
17	TAO130136	85.5184	85.9392	85.7610	1.3908e-01	1.9002e+00
18	TAO120048	85.5101	86.2454	85.9072	1.5055e-01	1.9002e+00
19	TAO130048	85.3407	85.9705	85.6371	1.4191e-01	1.9002e+00
20	TAO120224	85.4344	86.0651	85.7772	1.6422e-01	1.9002e+00
21	TAO130224	85.4499	86.0787	85.8204	1.5892e-01	1.9002e+00
22	TAO120312	85.4642	85.9902	85.7608	1.4829e-01	1.9002e+00
23	TAO130312	85.4014	85.9267	85.6348	1.3143e-01	1.9002e+00
24	TRT020000	85.7625	86.8150	86.2153	2.0543e-01	1.9002e+00
25	TRT070000	85.7257	86.5691	86.0441	1.7502e-01	1.9002e+00
26	TRT100000	85.7812	86.6206	86.2744	1.8871e-01	1.9002e+00
27	TRT120000	85.4812	86.3214	86.0252	1.6258e-01	1.9002e+00
28	TRT125000	85.6623	86.5001	86.0462	2.0152e-01	1.9002e+00
29	TRT130000	85.5673	86.1967	85.8469	1.6247e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6470	2.1094e-01	1.9011e+00
31	TAF050136	85.8696	86.4995	86.1533	1.4888e-01	1.9002e+00
32	TAF070136	86.0801	86.9184	86.5602	2.1265e-01	1.9002e+00
33	TAF080136	85.7095	86.3385	86.0309	1.4263e-01	1.9002e+00
34	TAF090136	83.7352	84.9963	84.3891	2.8028e-01	1.9001e+00
35	TAF100136	85.4561	86.2977	85.8957	1.5433e-01	1.9002e+00
36	TAF105136	85.4922	86.4328	86.0669	2.3233e-01	1.9002e+00
37	TAF110136	85.3278	86.2722	85.7499	1.7165e-01	1.9002e+00
38	TAF115136	85.9668	86.7018	86.3428	1.9791e-01	1.9002e+00
39	TAF120136	85.5796	86.2095	85.9931	1.5206e-01	1.9002e+00
40	TAF125136	85.6626	86.7087	86.1591	2.6515e-01	1.9002e+00
41	TAF130136	85.5597	86.3996	86.0322	1.7656e-01	1.9002e+00
42	TAF120048	85.9168	87.0784	86.3885	2.4707e-01	1.9002e+00
43	TAF130048	85.4881	86.3284	85.9608	1.9367e-01	1.9002e+00
44	TAF120224	85.6640	86.4000	86.0320	1.7676e-01	1.9002e+00
45	TAF130224	85.1362	85.9814	85.5358	2.1138e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.1287e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2062	1.0175e-01	1.9010e+00
48	TAI130138	85.5600	86.8211	86.2347	3.6834e-01	1.9002e+00
49	TAI130226	85.2035	85.9386	85.5252	1.8650e-01	1.9002e+00
50	TAI130314	85.5995	86.7567	86.2538	2.4997e-01	1.9002e+00
51	TAI130042	85.0814	85.9227	85.6218	1.9351e-01	1.9002e+00
52	TRR130090	85.1793	86.3339	85.8490	2.5260e-01	1.9002e+00
53	TSI0000001	82.1153	82.7474	82.4546	1.5970e-01	1.9001e+00
54	TSI0000002	75.2652	76.3231	75.6780	2.7128e-01	1.9000e+00
55	TSO0000001	72.9677	73.8192	73.4591	1.8242e-01	1.9000e+00
56	TSO0000002	80.6261	81.2594	80.9450	1.8767e-01	1.9001e+00
57	TAF020136	84.9702	85.6040	85.3275	1.8814e-01	1.9002e+00
58	TAF120312	85.1662	86.2165	85.8195	2.5300e-01	1.9002e+00
59	TAF130312	84.8513	85.6913	85.2778	1.6356e-01	1.9002e+00
60	EMPTY	0.4492	0.4541	0.4494	9.6655e-04	0.0000e+00
61	EMPTY	0.4590	0.4688	0.4647	2.1364e-03	0.0000e+00
62	EMPTY	0.4736	0.4834	0.4784	1.2041e-03	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4950	2.3941e-03	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3217	1.6028e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3419	6.9053e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3580	2.3008e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3762	9.6655e-04	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3907	6.9053e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4099	1.1714e-03	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4250	9.6655e-04	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5172	1.3381e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5517	6.9053e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5736	2.4642e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5958	6.9053e-04	0.0000e+00
80	PAN020136	16.7247	18.9372	17.6586	4.7121e-01	8.7112e-01
81	PAN050136	30.0910	32.0747	31.0890	5.1419e-01	1.6818e+00
82	PAN070136	21.8835	23.2568	22.4862	3.5760e-01	8.7181e-01
83	PAN080136	10.8661	11.4765	11.1728	1.4824e-01	8.7045e-01
84	PAN090136	9.1951	9.6528	9.4346	1.0791e-01	8.7032e-01
85	PAN100136	11.4369	11.9710	11.6856	1.1719e-01	8.7049e-01
86	PAN105136	5.1419	5.5234	5.2884	8.4199e-02	8.7010e-01
87	PAN110136	5.6217	6.0031	5.8032	8.7043e-02	8.7012e-01
88	PAN115136	5.8637	6.2451	6.0178	8.9200e-02	8.7013e-01
89	PAN120136	3.5896	3.8948	3.7453	7.8534e-02	8.7005e-01
90	PAN125136	5.1477	5.5292	5.3247	9.3046e-02	8.7010e-01
91	PAN130136	5.5410	5.9225	5.7012	1.0019e-01	8.7012e-01
92	PAN120048	9.6381	10.3248	10.0272	1.2258e-01	8.7036e-01
93	PAN130048	11.6071	12.1411	11.9229	1.2711e-01	8.7051e-01
94	PAN120224	10.8647	11.4750	11.1775	1.3011e-01	8.7045e-01
95	PAN130224	12.6591	13.1168	12.9200	1.2340e-01	8.7060e-01
96	PAN120312	9.4724	10.0064	9.7073	1.1518e-01	8.7034e-01
97	PAN130312	11.5910	12.2014	11.9359	1.2826e-01	8.7051e-01
98	PAB000136	34.4849	34.8512	34.6919	9.4422e-02	5.8645e-01
99	PAB100136	30.7155	30.9443	30.8235	4.9597e-02	5.8510e-01
100	PAB125136	29.8043	29.9416	29.8666	4.7841e-02	5.8479e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	34.1718	35.0263	34.5551	1.8124e-01	7.5496e-01
102	PRV000001	26.5800	26.7021	26.6166	5.6508e-02	7.5295e-01
103	PSR000001	28.7327	28.9768	28.8572	3.0104e-02	7.5346e-01
104	PFH000001	38.7092	39.6248	39.1816	2.3857e-01	5.0950e-01
105	PAN000136	134.8913	142.6732	138.3245	1.9049e+00	4.9321e+00
106	PFH000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	-9.4336	-9.8357	1.1660e-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	0.0049	0.0011	2.0432e-03	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0057	9.5112e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0295	8.6810e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0253	1.0447e-01	8.1000e-01
115	VPW000004	-0.1728	0.2178	-0.0790	1.0617e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0204	9.6976e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0050	9.1354e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.1233	1.1970e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.1563	1.1885e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.4439	1.1031e+00	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.2081	2.6267e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.1727	2.7899e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.1867	3.3322e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0219	3.3073e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	2.7356e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0184	3.0501e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0144	2.8608e-03	0.0000e+00
128	IHT000001	-0.1390	0.4470	0.0290	1.0447e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0128	9.6655e-02	4.1000e+00
130	IHT000003	-0.1765	0.4094	0.0266	1.1133e-01	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0494	9.5357e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0219	1.0507e-01	4.1000e+00
133	IHT000006	-0.3418	0.2441	-0.0684	1.1161e-01	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0729	1.1334e-01	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0332	1.0507e-01	4.1000e+00
136	IHT000009	-0.1315	0.4545	0.0482	1.1049e-01	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0488	7.8918e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0006	7.7324e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0095	9.3043e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0671	7.2866e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0795	1.0320e-01	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0312	8.2393e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0299	6.2265e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0760	1.9185e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0708	1.0507e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1031	9.0756e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0289	8.2393e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0436	7.8918e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0970	9.7377e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0424	9.4702e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0617	9.6976e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0679	8.7880e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0479	8.4997e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0535	7.5283e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0263	1.1838e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.3718	0.0164	8.5454e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0872	1.0440e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0493	1.0559e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0113	6.8345e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0039	7.3716e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0440	1.0259e-01	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0328	1.0259e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0195	8.1347e-02	4.1000e+00

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Velocity 1 - 14.0615 (ft/sec) (+/- 1.8640 %)
 Velocity 2 - 13.6775 (ft/sec) (+/- 1.7009 %)
 Pressure drop - 2.8590 (psi)
 Tsat in - 254.5886 (deg F) Tsat out - 249.3634 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 47090.8477 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 3198.8848 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.4242	75.0626	74.6881	1.8523e-01	1.9000e+00
1	TRF0000002	74.6505	75.0738	74.8706	1.4788e-01	1.9000e+00
2	TRF0000001	85.6823	86.4180	86.0899	1.9036e-01	1.9002e+00
3	TIN0000001	85.4095	86.0413	85.7213	1.7401e-01	1.9002e+00
4	TRV0000001	85.5151	86.4557	85.9757	2.0077e-01	1.9002e+00
5	TSR0000001	86.1713	86.9060	86.5280	1.5574e-01	1.9002e+00
6	TNO020136	85.8952	86.9473	86.3415	2.2940e-01	1.9002e+00
7	TNO050136	85.8704	86.7085	86.2146	1.8468e-01	1.9002e+00
8	TNO070136	84.3016	85.2509	84.8415	2.2604e-01	1.9001e+00
9	TNO080136	85.5543	86.2876	86.0144	1.8706e-01	1.9002e+00
10	TNO090136	85.8352	86.6749	86.2595	1.8724e-01	1.9002e+00
11	TNO100136	85.8039	86.3299	86.0899	1.5460e-01	1.9002e+00
12	TNO105136	86.1885	87.3447	86.6804	2.2118e-01	1.9002e+00
13	TNO110136	84.2347	85.1784	84.6750	1.9179e-01	1.9001e+00
14	TNO115136	85.7463	86.7991	86.2728	2.3211e-01	1.9002e+00
15	TNO120136	85.5912	86.3239	85.9260	1.6680e-01	1.9002e+00
16	TNO125136	85.7727	86.7173	86.2132	1.9095e-01	1.9002e+00
17	TNO130136	85.4165	86.2513	85.8963	1.7172e-01	1.9002e+00
18	TNO120048	85.6150	86.3508	86.0563	1.5307e-01	1.9002e+00
19	TNO130048	85.4456	86.1808	85.8026	1.7993e-01	1.9002e+00
20	TNO120224	85.6445	86.2750	85.9263	1.7179e-01	1.9002e+00
21	TNO130224	85.6581	86.7030	85.9520	2.0398e-01	1.9002e+00
22	TNO120312	85.4642	86.2005	85.9016	1.7307e-01	1.9002e+00
23	TNO130312	85.6109	86.1370	85.8298	1.3575e-01	1.9002e+00
24	TRT020000	85.8679	86.7102	86.3394	1.8321e-01	1.9002e+00
25	TRT070000	85.8311	86.5697	86.1770	1.6069e-01	1.9002e+00
26	TRT100000	85.9915	87.0401	86.4400	2.3026e-01	1.9002e+00
27	TRT120000	85.9009	86.5317	86.1868	1.6853e-01	1.9002e+00
28	TRT125000	85.7672	86.5001	86.2073	1.8682e-01	1.9002e+00
29	TRT130000	85.6722	86.3027	85.9958	1.7727e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6699	2.0759e-01	1.9011e+00
31	TAP050136	85.8699	86.7088	86.3356	1.8639e-01	1.9002e+00
32	TAP070136	86.2898	87.1285	86.6670	2.2168e-01	1.9002e+00
33	TAP080136	85.9193	86.5488	86.1876	1.6152e-01	1.9002e+00
34	TAP090136	83.9453	85.1013	84.5676	3.0006e-01	1.9001e+00
35	TAP100136	85.5610	86.4031	86.0071	1.6947e-01	1.9002e+00
36	TAP105136	85.5977	86.6430	86.1445	2.5467e-01	1.9002e+00
37	TAP110136	85.6422	86.1683	85.8820	1.4554e-01	1.9002e+00
38	TAP115136	86.0717	87.0167	86.5295	2.3584e-01	1.9002e+00
39	TAP120136	85.7899	86.4198	86.1210	1.4145e-01	1.9002e+00
40	TAP125136	85.7675	86.9188	86.3200	2.6695e-01	1.9002e+00
41	TAP130136	85.7694	86.3996	86.1266	1.5881e-01	1.9002e+00
42	TAP120048	86.1284	86.8683	86.5552	2.1949e-01	1.9002e+00
43	TAP130048	85.8029	86.4338	86.1308	1.8217e-01	1.9002e+00
44	TAP120224	85.7689	86.4000	86.1392	1.8547e-01	1.9002e+00
45	TAP130224	85.2428	86.1917	85.6560	2.1181e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0802	1.8441e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1602	7.2025e-02	1.9010e+00
48	TAI130138	85.7701	86.9262	86.3040	3.1469e-01	1.9002e+00
49	TAI130226	85.2046	86.1479	85.6824	1.8744e-01	1.9002e+00
50	TAI130314	85.8093	87.0724	86.4368	3.2381e-01	1.9002e+00
51	TAI130042	85.2913	86.2377	85.7795	2.3251e-01	1.9002e+00
52	TBI130090	85.3898	86.6488	85.9603	2.8451e-01	1.9002e+00
53	TSI000001	81.9051	82.6423	82.2802	1.7181e-01	1.9001e+00
54	TSI000002	73.6790	74.7381	74.1791	2.5048e-01	1.9000e+00
55	TSO0000001	70.6172	71.3648	70.9505	1.9833e-01	1.9000e+00
56	TSO0000002	79.6769	80.5215	80.0488	2.0595e-01	1.9001e+00
57	TAF020136	85.0752	85.9202	85.5069	2.0090e-01	1.9002e+00
58	TAF120312	85.3766	86.5312	85.9601	2.9174e-01	1.9002e+00
59	TAF130312	84.9563	85.6922	85.4435	1.7845e-01	1.9002e+00
60	EMPTY	0.4492	0.4541	0.4519	2.4583e-03	0.0000e+00
61	EMPTY	0.4639	0.4688	0.4662	2.4642e-03	0.0000e+00
62	EMPTY	0.4785	0.4834	0.4795	1.9730e-03	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4969	2.1065e-03	0.0000e+00
64	EMPTY	0.3174	0.3271	0.3222	1.2041e-03	0.0000e+00
65	EMPTY	0.3369	0.3467	0.3418	9.8648e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3571	1.7115e-03	0.0000e+00
67	EMPTY	0.3711	0.3760	0.3758	9.6655e-04	0.0000e+00
68	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
69	EMPTY	0.4053	0.4150	0.4098	1.6624e-03	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4250	9.6655e-04	0.0000e+00
71	EMPTY	0.4443	0.4492	0.4490	9.6655e-04	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4981	6.9053e-04	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5170	1.6028e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5517	6.9053e-04	0.0000e+00
78	EMPTY	0.5713	0.5859	0.5727	2.7971e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5959	9.6655e-04	0.0000e+00
80	PAN020136	9.2479	11.3078	9.9757	5.0094e-01	8.7036e-01
81	PAN050136	15.9004	18.1892	17.2676	5.2312e-01	1.6806e+00
82	PAN070136	12.4230	14.2541	12.9845	3.8865e-01	8.7061e-01
83	PAN080136	5.9070	6.5174	6.1527	1.5589e-01	8.7014e-01
84	PAN090136	5.0752	5.5330	5.2675	1.1033e-01	8.7010e-01
85	PAN100136	6.6304	7.1644	6.8959	1.3721e-01	8.7017e-01
86	PAN105136	2.7768	3.1583	2.9736	8.0225e-02	8.7003e-01
87	PAN110136	3.1802	3.4854	3.3130	7.9810e-02	8.7004e-01
88	PAN115136	3.2697	3.6511	3.4802	8.7953e-02	8.7004e-01
89	PAN120136	1.6060	1.9112	1.7189	8.1910e-02	8.7001e-01
90	PAN125136	2.8589	3.2404	3.0359	9.1760e-02	8.7003e-01
91	PAN130136	3.0233	3.4048	3.2400	1.0032e-01	8.7004e-01
92	PAN120048	5.5183	5.9760	5.7288	1.0404e-01	8.7012e-01
93	PAN130048	6.8005	7.3346	7.0264	1.3345e-01	8.7018e-01
94	PAN120224	6.2107	6.6685	6.4289	1.0900e-01	8.7015e-01
95	PAN130224	7.5474	7.9289	7.7503	9.3262e-02	8.7022e-01
96	PAN120312	5.0473	5.5051	5.2808	1.0944e-01	8.7010e-01
97	PAN130312	6.8608	7.3186	7.0973	1.0707e-01	8.7018e-01
98	PAB0000136	31.9672	32.4250	32.2099	1.0014e-01	5.8556e-01
99	PAB100136	29.8457	30.0746	29.9849	5.0621e-02	5.8482e-01
100	PAB125136	29.3465	29.5296	29.4436	4.5907e-02	5.8465e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	31.4863	32.4628	32.0088	1.8296e-01	7.5426e-01
102	PRV0000001	26.5800	26.7021	26.6288	6.0409e-02	7.5295e-01
103	PSR0000001	28.7327	28.8547	28.7424	3.3453e-02	7.5343e-01
104	PFM0000001	29.9202	30.9273	30.3157	2.4359e-01	5.0571e-01
105	PAN000136	74.4665	83.1640	79.1540	1.9145e+00	4.9240e+00
106	PFM0000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-9.5117	-9.8626	1.2984e-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	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
112	VPM0000001	-0.2404	0.1502	0.0057	9.5112e-02	8.1000e-01
113	VPM0000002	-0.2404	0.1502	-0.0490	9.2456e-02	8.1000e-01
114	VPM0000003	-0.2479	0.3380	-0.0370	9.5357e-02	8.1000e-01
115	VPM0000004	-0.3681	0.0225	-0.0986	1.0358e-01	8.1000e-01
116	VPM0000005	-0.1202	0.2704	0.0126	1.0014e-01	8.1000e-01
117	VPM0000006	-0.2216	0.1690	0.0011	9.6735e-02	8.1000e-01
118	IPM0000001	-4.1299	1.7272	-1.5528	1.2119e+00	8.1000e+00
119	IPM0000002	-2.9267	2.9271	-0.2340	1.1754e+00	8.1000e+00
120	IPM0000003	-2.5499	1.3501	-0.0149	1.1982e+00	8.1000e+00
121	IPM0000004	-0.4132	0.0751	-0.2862	2.1635e-01	2.0000e+00
122	IPM0000005	-0.5633	-0.0751	-0.3876	2.3673e-01	2.0000e+00
123	IPM0000006	-0.7043	0.7606	-0.1281	3.0708e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0215	3.5568e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0134	2.1635e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0172	3.1567e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0153	2.9611e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0251	9.1354e-02	4.1000e+00
129	IHT0000002	-0.2216	0.1690	0.0128	8.8233e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0383	8.1347e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0338	6.8345e-02	4.1000e+00
132	IHT0000005	-0.0601	0.1352	0.0024	9.2034e-02	4.1000e+00
133	IHT0000006	-0.3418	0.0488	-0.1074	8.8233e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0533	9.6655e-02	4.1000e+00
135	IHT0000008	-0.0488	0.1465	0.0215	9.4702e-02	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0482	8.6810e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0684	9.8648e-02	4.1000e+00
138	IHT0000011	-0.2104	0.3756	0.0123	8.8321e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0134	9.0756e-02	4.1000e+00
140	IHT0000013	-0.2742	0.5071	-0.0554	1.0168e-01	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0795	7.7324e-02	4.1000e+00
142	IHT0000015	-0.1953	0.1953	0.0195	8.1347e-02	4.1000e+00
143	IHT0000016	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
144	IHT0000017	-0.2479	0.1427	-0.0760	1.4573e-01	4.1000e+00
145	IHT0000018	-0.1841	0.0113	-0.0512	9.2034e-02	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.0874	1.0447e-01	4.1000e+00
147	IHT0000020	-0.2554	0.1352	-0.0054	9.6976e-02	4.1000e+00
148	IHT0000021	-0.0826	0.1127	-0.0279	8.8585e-02	4.1000e+00
149	IHT0000022	-0.2103	0.1803	-0.0970	1.0507e-01	4.1000e+00
150	IHT0000023	-0.3080	0.0826	-0.0345	1.0440e-01	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.0852	9.1354e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0718	9.9902e-02	4.1000e+00
153	IHT0000026	-0.0714	0.1240	-0.0323	7.8918e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0418	8.2864e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0380	1.2731e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2141	0.1765	0.0046	7.5283e-02	4.1000e+00
157	IHT0000030	-0.1653	0.0300	-0.0676	9.8648e-02	4.1000e+00
158	IHT0000031	-0.1352	0.2554	-0.0454	1.1975e-01	4.1000e+00
159	IHT0000032	-0.2066	0.1840	-0.0035	8.7880e-02	4.1000e+00
160	IHT0000033	-0.1953	0.1953	0.0078	1.0410e-01	4.1000e+00
161	IHT0000034	-0.0263	0.1690	0.0401	9.3461e-02	4.1000e+00
162	IHT0000035	-0.0375	0.1578	0.0250	9.2034e-02	4.1000e+00
163	IHT0000036	-0.1953	0.1953	0.0195	7.1136e-02	4.1000e+00

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Velocity 1 - 12.1175 (ft/sec) (+/- 2.0082 %)
 Velocity 2 - 12.3975 (ft/sec) (+/- 1.7149 %)
 Pressure drop - 0.9827 (psi)
 Tsat in - 250.7205 (deg F) Tsat out - 248.8373 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 1755.7448 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 9764.0596 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.4242	75.0626	74.8030	2.0297e-01	1.9000e+00
1	TRF0000002	74.6505	75.0738	74.9510	1.1385e-01	1.9000e+00
2	TFH0000001	85.8927	86.5222	86.1825	1.6760e-01	1.9002e+00
3	TIN0000001	85.6201	86.2518	85.9150	1.3781e-01	1.9002e+00
4	TRV0000001	85.7237	86.3539	86.0809	1.7590e-01	1.9002e+00
5	TSR0000001	86.2762	86.8007	86.5287	1.4078e-01	1.9002e+00
6	TAO020136	86.0007	86.9468	86.5140	2.0780e-01	1.9002e+00
7	TAO050136	85.9753	86.8139	86.3532	1.7973e-01	1.9002e+00
8	TAO070136	84.5122	85.2509	84.8624	1.9111e-01	1.9001e+00
9	TAO080136	85.8680	86.3925	86.1571	1.5068e-01	1.9002e+00
10	TAO090136	86.0449	86.8851	86.4024	1.8846e-01	1.9002e+00
11	TAO100136	85.8039	86.5390	86.2034	1.6027e-01	1.9002e+00
12	TAO105136	86.3983	87.2398	86.7982	1.9814e-01	1.9002e+00
13	TAO110136	84.4453	85.1784	84.7928	1.6348e-01	1.9001e+00
14	TAO115136	85.9566	86.7991	86.3527	2.1968e-01	1.9002e+00
15	TAO120136	85.6967	86.4287	86.0769	1.4941e-01	1.9002e+00
16	TAO125136	86.0867	86.7173	86.3267	1.5748e-01	1.9002e+00
17	TAO130136	85.7283	86.3562	86.0179	1.5746e-01	1.9002e+00
18	TAO120048	85.7205	86.5605	86.1950	1.7665e-01	1.9002e+00
19	TAO130048	85.5505	86.1808	85.9119	1.4414e-01	1.9002e+00
20	TAO120224	85.7494	86.3804	86.0525	1.6268e-01	1.9002e+00
21	TAO130224	85.7630	86.3923	86.0946	1.6715e-01	1.9002e+00
22	TAO120312	85.5697	86.4106	86.0657	2.0490e-01	1.9002e+00
23	TAO130312	85.5063	86.1370	85.9350	1.4998e-01	1.9002e+00
24	TRT020000	86.0777	86.9204	86.4783	2.2002e-01	1.9002e+00
25	TRT070000	86.0421	86.6745	86.3329	1.4375e-01	1.9002e+00
26	TRT100000	85.9910	86.9354	86.5452	1.9310e-01	1.9002e+00
27	TRT120000	85.9009	86.5317	86.3003	1.6309e-01	1.9002e+00
28	TRT125000	85.8721	86.6055	86.2832	1.9357e-01	1.9002e+00
29	TRT130000	85.7771	86.4075	86.1386	1.7766e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6561	2.1895e-01	1.9011e+00
31	TAF050136	86.0793	86.7097	86.4408	1.5322e-01	1.9002e+00
32	TAF070136	86.2898	87.3373	86.8431	2.2691e-01	1.9002e+00
33	TAF080136	85.9193	86.7570	86.3219	1.8124e-01	1.9002e+00
34	TAF090136	84.1554	84.9969	84.6478	2.4051e-01	1.9001e+00
35	TAF100136	85.7714	86.5079	86.1754	1.7317e-01	1.9002e+00
36	TAF105136	85.8054	86.7463	86.2704	2.3230e-01	1.9002e+00
37	TAF110136	85.5377	86.2722	85.9830	1.7047e-01	1.9002e+00
38	TAF115136	86.1766	87.0167	86.6346	2.0641e-01	1.9002e+00
39	TAF120136	85.9986	86.4198	86.2262	1.2642e-01	1.9002e+00
40	TAF125136	85.6638	86.9188	86.4335	2.7666e-01	1.9002e+00
41	TAF130136	85.8743	86.6097	86.2737	1.7882e-01	1.9002e+00
42	TAF120048	86.1290	87.1837	86.6350	2.4868e-01	1.9002e+00
43	TAF130048	85.9078	86.5387	86.2360	1.7329e-01	1.9002e+00
44	TAF120224	85.9790	86.6102	86.3116	1.7300e-01	1.9002e+00
45	TAF130224	85.3477	86.1917	85.7782	2.0861e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0204	2.1911e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1878	1.1067e-01	1.9010e+00
48	TAI130138	85.9805	86.9262	86.5100	2.5456e-01	1.9002e+00
49	TAI130226	85.4134	86.2533	85.7917	2.0752e-01	1.9002e+00
50	TAI130314	85.8093	86.9674	86.5209	2.8964e-01	1.9002e+00
51	TAI130042	85.5016	86.3431	85.9015	1.8157e-01	1.9002e+00
52	TRR130090	85.5989	86.4393	86.0277	2.4520e-01	1.9002e+00
53	TSI0000001	81.9051	82.7480	82.2889	1.6871e-01	1.9001e+00
54	TSI0000002	73.0439	73.9978	73.4727	2.5676e-01	1.9000e+00
55	TSO0000001	69.4409	70.4024	69.8854	1.9589e-01	1.9000e+00
56	TSO0000002	79.2554	80.2057	79.6736	2.0123e-01	1.9001e+00
57	TAF020136	85.2871	86.2379	85.6840	1.8033e-01	1.9002e+00
58	TAF120312	85.6914	86.6365	86.0611	2.3736e-01	1.9002e+00
59	TAF130312	85.2708	85.9016	85.5613	1.6653e-01	1.9002e+00
60	EMPTY	0.4492	0.4541	0.4527	2.2146e-03	0.0000e+00
61	EMPTY	0.4639	0.4688	0.4670	2.3675e-03	0.0000e+00
62	EMPTY	0.4785	0.4834	0.4802	2.3365e-03	0.0000e+00
63	EMPTY	0.4932	0.4980	0.4974	1.7115e-03	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3201	2.4484e-03	0.0000e+00
65	EMPTY	0.3369	0.3418	0.3417	6.9053e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3566	9.6655e-04	0.0000e+00
67	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
68	EMPTY	0.3857	0.3906	0.3905	6.9053e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4078	2.4642e-03	0.0000e+00
70	EMPTY	0.4199	0.4248	0.4246	9.6655e-04	0.0000e+00
71	EMPTY	0.4443	0.4492	0.4490	9.6655e-04	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4627	2.1065e-03	0.0000e+00
73	EMPTY	0.4736	0.4834	0.4827	1.9754e-03	0.0000e+00
74	EMPTY	0.4932	0.4980	0.4979	9.6655e-04	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5135	1.8082e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5295	2.4484e-03	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5491	2.4583e-03	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5714	6.9053e-04	0.0000e+00
79	EMPTY	0.5957	0.5957	0.5957	0.0000e+00	0.0000e+00
80	PAN020136	2.5340	4.4414	3.4694	4.9078e-01	8.7004e-01
81	PAN050136	4.1511	6.4399	5.1765	5.1780e-01	1.6800e+00
82	PAN070136	3.3440	5.3277	4.5495	3.9297e-01	8.7007e-01
83	PAN080136	1.5583	2.2449	1.8314	1.4050e-01	8.7001e-01
84	PAN090136	1.1079	1.7183	1.4573	1.2531e-01	8.7001e-01
85	PAN100136	2.4342	2.7394	2.5822	9.1721e-02	8.7002e-01
86	PAN105136	0.7169	1.0983	0.8862	8.3419e-02	8.7000e-01
87	PAN110136	1.0440	1.4255	1.2332	9.501e-02	8.7001e-01
88	PAN115136	1.2097	1.5912	1.4340	8.3590e-02	8.7001e-01
89	PAN120136	-0.2251	0.1564	-0.0877	8.7193e-02	8.7000e-01
90	PAN125136	0.7227	1.1042	0.9378	8.1109e-02	8.7000e-01
91	PAN130136	0.9633	1.2685	1.0869	6.6992e-02	8.7000e-01
92	PAN120048	1.7799	2.1613	1.9462	1.1294e-01	8.7001e-01
93	PAN130048	2.3755	2.8333	2.6578	1.0482e-01	8.7003e-01
94	PAN120224	2.0146	2.5486	2.3014	1.1385e-01	8.7002e-01
95	PAN130224	2.9697	3.4275	3.1727	1.1494e-01	8.7004e-01
96	PAN120312	1.0037	1.7667	1.3089	1.2522e-01	8.7001e-01
97	PAN130312	2.4358	3.0461	2.8005	1.2165e-01	8.7003e-01
98	PAB000136	29.8615	30.3651	30.1408	1.0473e-01	5.8487e-01
99	PAB100136	29.2964	29.4337	29.3568	4.4775e-02	5.8463e-01
100	PAB125136	29.0719	29.2550	29.1772	4.3624e-02	5.8457e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	29.5331	30.3876	29.9848	2.1251e-01	7.5374e-01
102	PRV000001	26.5800	26.7021	26.6288	6.0409e-02	7.5295e-01
103	PSR000001	28.7327	28.8547	28.7864	6.1209e-02	7.5344e-01
104	PFH000001	22.0466	22.8706	22.4641	1.7069e-01	5.0314e-01
105	PAN000136	22.7392	31.4367	27.2069	2.1282e+00	4.9205e+00
106	PFH000002	23.2352	23.7386	23.5224	1.2741e-01	2.0847e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-9.3066	-9.7867	1.6542e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0014	2.2146e-03	0.0000e+00
110	EMPTY	10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0096	9.6976e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0099	9.4125e-02	8.1000e-01
114	VPW000003	-0.0526	0.3380	0.0021	9.6976e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0751	1.0625e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0360	1.0440e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0089	1.0206e-01	8.1000e-01
118	IPW000001	-4.1299	1.7272	-1.2795	1.1970e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.4294	1.1178e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	0.1021	1.1660e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.1788	2.4642e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.3290	2.4640e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.0890	3.0897e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0212	3.3613e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.2839e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0173	2.8266e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0145	3.2658e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0407	1.0320e-01	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0284	8.8585e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0144	8.6810e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0416	8.7880e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0376	9.8648e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0801	9.3461e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0690	9.2034e-02	4.1000e+00
135	IHT000008	-0.2442	0.3418	0.0371	1.1272e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0443	7.1136e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0566	7.8523e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0072	7.8523e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0095	9.3043e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0711	6.7888e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0716	6.7888e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0351	7.5798e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0182	6.6498e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0682	1.9266e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0356	1.0106e-01	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1109	1.0297e-01	4.1000e+00
147	IHT000020	-0.2554	0.3305	-0.0250	1.0206e-01	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0436	8.8233e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0970	9.7377e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0345	9.6655e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0735	9.0756e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0835	1.0168e-01	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0401	8.2393e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0457	7.7324e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0458	1.0625e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0085	7.9017e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0832	9.7377e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0336	1.1995e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0035	6.7888e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0039	9.2456e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0479	9.5765e-02	4.1000e+00
162	IHT000035	-0.0375	0.3531	0.0328	1.0259e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0391	7.8918e-02	4.1000e+00

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Velocity 1 - 10.0564 (ft/sec) (+/- 2.3286 %)
 Velocity 2 - 10.4058 (ft/sec) (+/- 1.7582 %)
 Pressure drop - -0.8145 (psi)
 Tsat in - 246.6234 (deg F) Tsat out - 248.2154 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 513.1943 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 11562.7627 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.4242	75.2754	74.8328	1.7110e-01	1.9000e+00
1	TRF0000002	74.8621	75.0738	74.9976	1.0261e-01	1.9000e+00
2	TFM0000001	86.2072	86.9425	86.6101	1.8279e-01	1.9002e+00
3	TIN0000001	85.9361	86.5672	86.2601	1.3857e-01	1.9002e+00
4	TRV0000001	86.0382	86.7719	86.4531	1.6107e-01	1.9002e+00
5	TSR0000001	86.3810	87.0114	86.6501	1.3420e-01	1.9002e+00
6	TAO020136	86.3165	87.3677	86.8546	2.5105e-01	1.9002e+00
7	TAO050136	86.3944	87.0225	86.7416	1.5182e-01	1.9002e+00
8	TAO070136	86.6177	85.5668	85.1788	2.2988e-01	1.9002e+00
9	TAO080136	85.2849	86.8098	86.5539	1.6690e-01	1.9002e+00
10	TAO090136	86.3606	87.1999	86.7671	1.9151e-01	1.9002e+00
11	TAO100136	86.2239	86.9594	86.5851	1.6590e-01	1.9002e+00
12	TAO105136	86.8188	87.6602	87.1472	2.0110e-01	1.9002e+00
13	TAO110136	84.7588	85.3868	85.0433	1.5282e-01	1.9002e+00
14	TAO115136	86.3776	87.3257	86.7655	2.2356e-01	1.9002e+00
15	TAO120136	86.1130	86.9501	86.4769	1.5450e-01	1.9002e+00
16	TAO125136	86.2969	87.0316	86.6705	1.7386e-01	1.9002e+00
17	TAO130136	86.0405	86.6682	86.3864	1.3776e-01	1.9002e+00
18	TAO120048	86.2443	86.8755	86.5390	1.8498e-01	1.9002e+00
19	TAO130048	85.9700	86.5988	86.2592	1.4160e-01	1.9002e+00
20	TAO120224	86.0642	86.8001	86.4135	1.8312e-01	1.9002e+00
21	TAO130224	86.0766	86.8083	86.4612	1.6032e-01	1.9002e+00
22	TAO120312	86.0949	86.9360	86.4186	1.8616e-01	1.9002e+00
23	TAO130312	85.9267	86.7652	86.2828	1.7990e-01	1.9002e+00
24	TRT020000	86.3942	87.3414	86.8825	2.1660e-01	1.9002e+00
25	TRT070000	86.3589	87.0972	86.7005	1.6714e-01	1.9002e+00
26	TRT100000	86.5153	87.3548	86.9389	1.9404e-01	1.9002e+00
27	TRT120000	86.4252	87.0563	86.6904	1.5766e-01	1.9002e+00
28	TRT125000	86.2915	87.2326	86.7089	2.0596e-01	1.9002e+00
29	TRT130000	86.1973	86.9313	86.4820	1.5871e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6148	1.9654e-01	1.9011e+00
31	TAF050136	86.4995	87.2335	86.8553	1.8221e-01	1.9002e+00
32	TAF070136	86.6041	87.7547	87.2067	2.2218e-01	1.9002e+00
33	TAF080136	86.2331	86.9652	86.6804	1.6386e-01	1.9002e+00
34	TAF090136	84.3660	85.2068	84.8620	2.1433e-01	1.9001e+00
35	TAF100136	86.0867	86.8236	86.4951	1.8364e-01	1.9002e+00
36	TAF105136	86.1192	87.0592	86.6496	2.6220e-01	1.9002e+00
37	TAF110136	86.0619	86.7961	86.3976	1.7734e-01	1.9002e+00
38	TAF115136	86.4916	87.3304	86.9407	2.0549e-01	1.9002e+00
39	TAF120136	86.3133	86.9434	86.6530	1.4313e-01	1.9002e+00
40	TAF125136	86.1863	87.3355	86.8215	2.8749e-01	1.9002e+00
41	TAF130136	86.3989	87.1335	86.6761	1.7711e-01	1.9002e+00
42	TAF120048	86.4453	87.3951	87.0111	2.2745e-01	1.9002e+00
43	TAF130048	86.2230	86.8537	86.5591	1.6971e-01	1.9002e+00
44	TAF120224	86.2940	87.0303	86.6981	1.8430e-01	1.9002e+00
45	TAF130224	85.8760	86.5089	86.1288	1.5362e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	2.0247e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1878	1.0047e-01	1.9010e+00
48	TAI130138	86.1900	87.3460	86.8670	2.2966e-01	1.9002e+00
49	TAI130226	85.7282	86.6717	86.1896	2.0954e-01	1.9002e+00
50	TAI130314	86.1253	87.4928	86.8954	3.0090e-01	1.9002e+00
51	TAI130042	85.8172	86.6585	86.2545	2.0300e-01	1.9002e+00
52	TRR130090	85.9135	86.8583	86.3589	2.2279e-01	1.9002e+00
53	TSI0000001	81.8005	82.3276	82.1040	1.4839e-01	1.9001e+00
54	TSI0000002	72.3032	73.4694	72.8927	2.8182e-01	1.9000e+00
55	TSO0000001	68.7988	69.5469	69.1322	1.9154e-01	1.9000e+00
56	TSO0000002	79.1503	79.7838	79.5132	1.8736e-01	1.9001e+00
57	TAP020136	85.6040	86.3427	86.0177	1.7678e-01	1.9002e+00
58	TAP120312	85.9007	86.8462	86.4094	2.8321e-01	1.9002e+00
59	TAP130312	85.5858	86.3204	85.9468	1.5608e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4594	1.3381e-03	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4738	9.6655e-04	0.0000e+00
62	EMPTY	0.4883	0.4883	0.4883	0.0000e+00	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5033	1.3381e-03	0.0000e+00
64	EMPTY	0.3223	0.3223	0.3223	0.0000e+00	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3422	1.3381e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3596	2.3675e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3765	1.4797e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3908	9.6655e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4100	9.6655e-04	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4251	1.1714e-03	0.0000e+00
71	EMPTY	0.4443	0.4492	0.4490	9.6655e-04	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4637	9.6655e-04	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4984	1.3381e-03	0.0000e+00
75	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
76	EMPTY	0.5273	0.5371	0.5324	1.3811e-03	0.0000e+00
77	EMPTY	0.5469	0.5566	0.5518	9.8648e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5742	2.4164e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5971	2.2146e-03	0.0000e+00
80	PAN020136	-4.3324	-1.2044	-2.7379	5.4261e-01	8.7003e-01
81	PAN050136	-8.0559	-4.5464	-6.4049	6.7094e-01	1.6801e+00
82	PAN070136	-4.2091	-2.5306	-3.4049	3.7446e-01	8.7004e-01
83	PAN080136	-3.7060	-2.0276	-2.9324	3.8719e-01	8.7003e-01
84	PAN090136	-2.4779	-1.0283	-1.6112	3.5943e-01	8.7001e-01
85	PAN100136	-1.6857	-1.2279	-1.4446	1.0938e-01	8.7001e-01
86	PAN105136	-1.1905	-0.8853	-0.9998	7.2706e-02	8.7000e-01
87	PAN110136	-1.0159	-0.7107	-0.8176	7.7069e-02	8.7000e-01
88	PAN115136	-0.7739	-0.3924	-0.5694	9.1760e-02	8.7000e-01
89	PAN120136	-2.0561	-1.6747	-1.8944	8.1036e-02	8.7001e-01
90	PAN125136	-1.3372	-0.9558	-1.1419	8.0329e-02	8.7000e-01
91	PAN130136	-0.9440	-0.7151	-0.7945	6.7116e-02	8.7000e-01
92	PAN120048	-2.1111	-1.5008	-1.8288	1.1964e-01	8.7001e-01
93	PAN130048	-1.8207	-1.2866	-1.4941	1.0112e-01	8.7001e-01
94	PAN120224	-1.8764	-1.4949	-1.6643	9.6616e-02	8.7001e-01
95	PAN130224	-1.3790	-0.9212	-1.1486	1.0733e-01	8.7000e-01
96	PAN120312	-2.6584	-2.2006	-2.4127	1.1146e-01	8.7002e-01
97	PAN130312	-1.5315	-1.2263	-1.3881	9.4565e-02	8.7001e-01
98	PAB000136	27.8016	28.2594	28.0790	1.1492e-01	5.8423e-01
99	PAB100136	28.6098	28.7471	28.6821	4.2471e-02	5.8442e-01
100	PAB125136	28.7972	28.9345	28.8650	3.8400e-02	5.8447e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.5800	28.4345	27.9023	2.0301e-01	7.5324e-01
102	PRV000001	26.5800	26.9462	26.6654	7.0836e-02	7.5296e-01
103	PSR000001	28.7127	27.8547	28.7400	2.9284e-02	7.5343e-01
104	PFH000001	15.1802	15.6380	15.4219	1.0424e-01	5.0148e-01
105	PAN000136	26.6993	-19.3751	-22.5520	1.7679e+00	4.9203e+00
106	PFH000002	16.2044	16.8421	16.5226	1.3907e-01	2.0422e-01
107	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
108	EMPTY	10.0000	-9.2529	-9.5650	1.7869e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0003	1.1714e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0057	8.6541e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0217	7.5283e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0096	9.8963e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0751	1.0625e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0400	1.0942e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0185	1.1811e-01	8.1000e-01
118	IPW000001	-2.1775	-0.2252	-1.3185	9.7896e-01	8.1000e+00
119	IPW000002	-2.9267	2.9271	0.5075	1.0097e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	0.0241	9.9976e-01	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.2667	2.4662e-01	2.0000e+00
122	IPW000005	-1.0516	0.9014	-0.3778	3.5414e-01	2.0000e+00
123	IPW000006	-0.7043	0.2723	-0.0793	2.9660e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0202	2.7919e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.7919e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0169	2.9938e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0147	2.6998e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0524	8.3612e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0518	9.6655e-02	4.1000e+00
130	IHT000003	0.0188	0.2141	0.0383	5.9189e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0377	4.8166e-02	4.1000e+00
132	IHT000005	-0.0601	0.3305	0.0259	1.1272e-01	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.1035	8.1729e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0573	9.5765e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0058	8.8585e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0560	6.7888e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0566	8.7880e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0111	6.2265e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0173	1.1838e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0554	8.4997e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0795	1.0320e-01	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0273	7.9017e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0421	4.6855e-02	4.1000e+00
144	IHT000017	-0.2479	0.3380	-0.0643	1.5490e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0356	9.3043e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1070	1.0849e-01	4.1000e+00
147	IHT000020	-0.0601	0.3305	-0.0132	9.3043e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0514	8.2393e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.1166	9.8569e-02	4.1000e+00
150	IHT000023	-0.1127	0.2780	-0.0580	9.6976e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0656	9.5112e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0874	8.8321e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0518	7.1136e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0300	6.8345e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0693	9.8963e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.3718	0.0164	9.4125e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0832	9.7377e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0415	1.1327e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0230	9.1779e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	-0.0117	8.2864e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0128	7.8918e-02	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0289	1.0145e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0156	8.6810e-02	4.1000e+00

AIM

Association for Information and Image Management

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

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

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Velocity 1 = 8.0954 (ft/sec) (+/- 3.0181 %)
 Velocity 2 = 8.5296 (ft/sec) (+/- 1.8593 %)
 Pressure drop = -2.2802 (psi)
 Tsat in = 243.3227 (deg F) Tsat out = 247.8258 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 16233.7402 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4303.8262 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.6370	75.2754	74.8158	1.8420e-01	1.9000e+00
1	TRF0000002	74.8621	75.0738	75.0060	9.9723e-02	1.9000e+00
2	TFH0000001	86.2072	87.0466	86.5472	1.8545e-01	1.9002e+00
3	TIN0000001	85.9361	86.4622	86.2432	1.3585e-01	1.9002e+00
4	TRV0000001	86.0382	86.8772	86.4029	2.2908e-01	1.9002e+00
5	TSR0000001	86.3816	87.0114	86.6918	1.7331e-01	1.9002e+00
6	TAO020136	86.4214	87.3677	86.8293	2.4374e-01	1.9002e+00
7	TAO050136	86.3944	87.0225	86.7207	1.6623e-01	1.9002e+00
8	TAO070136	84.8288	85.5668	85.1745	1.8698e-01	1.9002e+00
9	TAO080136	86.2855	86.9130	86.5330	1.5379e-01	1.9002e+00
10	TAO090136	86.3599	87.0946	86.7335	1.9325e-01	1.9002e+00
11	TAO100136	86.3288	86.8540	86.5431	1.5002e-01	1.9002e+00
12	TAO105136	86.7140	87.5553	87.1597	2.1514e-01	1.9002e+00
13	TAO110136	84.6539	85.3868	85.0057	1.7166e-01	1.9002e+00
14	TAO115136	86.2728	87.1150	86.7444	2.1296e-01	1.9002e+00
15	TAO120136	86.1130	86.6368	86.4393	1.3502e-01	1.9002e+00
16	TAO125136	86.5065	87.0316	86.6915	1.5670e-01	1.9002e+00
17	TAO130136	86.0405	86.6682	86.3739	1.4934e-01	1.9002e+00
18	TAO120048	86.2449	86.8750	86.5389	1.6439e-01	1.9002e+00
19	TAO130048	85.8651	86.5988	86.2382	1.3944e-01	1.9002e+00
20	TAO120224	86.0648	86.8001	86.4261	1.6192e-01	1.9002e+00
21	TAO130224	86.2847	86.7057	86.4404	1.1494e-01	1.9002e+00
22	TAO120312	86.0949	86.8306	86.3640	2.0165e-01	1.9002e+00
23	TAO130312	86.0307	86.6612	86.2618	1.6014e-01	1.9002e+00
24	TRT020000	86.3942	87.3414	86.8320	2.0332e-01	1.9002e+00
25	TRT070000	86.3589	86.9912	86.6794	1.5202e-01	1.9002e+00
26	TRT100000	86.5153	87.3548	86.9388	1.9641e-01	1.9002e+00
27	TRT120000	86.4257	87.0563	86.6652	1.5887e-01	1.9002e+00
28	TRT125000	86.3947	87.1272	86.6796	1.7323e-01	1.9002e+00
29	TRT130000	86.0919	86.7222	86.4693	1.3083e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6791	2.0447e-01	1.9011e+00
31	TAF050136	86.4995	87.1282	86.7967	1.4276e-01	1.9002e+00
32	TAF070136	86.8130	87.7547	87.2484	2.0436e-01	1.9002e+00
33	TAF080136	86.3380	87.0681	86.6804	1.5545e-01	1.9002e+00
34	TAF090136	84.2610	85.3112	84.8409	2.7367e-01	1.9001e+00
35	TAF100136	86.1922	87.0339	86.5288	1.8035e-01	1.9002e+00
36	TAF105136	86.1192	87.0592	86.6579	2.4966e-01	1.9002e+00
37	TAF110136	86.0619	86.7961	86.3850	1.6538e-01	1.9002e+00
38	TAF115136	86.4916	87.3316	86.9574	2.0019e-01	1.9002e+00
39	TAF120136	86.3133	86.9434	86.6530	1.4322e-01	1.9002e+00
40	TAF125136	86.3966	87.4409	86.8631	2.4235e-01	1.9002e+00
41	TAF130136	86.3989	86.9241	86.6258	1.5204e-01	1.9002e+00
42	TAF120048	86.5507	87.5004	87.0026	2.2476e-01	1.9002e+00
43	TAF130048	86.2230	86.9580	86.5506	1.8579e-01	1.9002e+00
44	TAF120224	86.2946	87.0303	86.6771	2.2343e-01	1.9002e+00
45	TAF130224	85.6646	86.6143	86.1288	1.8823e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.0380e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130138	86.2954	87.4513	86.8669	3.1836e-01	1.9002e+00
49	TAI130226	85.7282	86.5679	86.1728	2.0385e-01	1.9002e+00
50	TAI130314	86.3358	87.4928	86.8365	3.2758e-01	1.9002e+00
51	TAI130042	85.7125	86.5532	86.1914	2.2592e-01	1.9002e+00
52	TRR130090	85.8093	86.8583	86.3128	2.4622e-01	1.9002e+00
53	TSI0000001	81.8005	82.4333	82.0366	1.5440e-01	1.9001e+00
54	TSI0000002	72.0913	73.2577	72.5792	3.0668e-01	1.9000e+00
55	TSO0000001	68.1564	68.9049	68.5585	1.8909e-01	1.9000e+00
56	TSO0000002	79.2554	80.2057	79.6482	1.8358e-01	1.9001e+00
57	TAF020136	85.7094	86.4481	86.0050	1.6236e-01	1.9002e+00
58	TAF120312	86.0062	86.8462	86.4304	2.5175e-01	1.9002e+00
59	TAF130312	85.5858	86.3204	85.9007	1.5736e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4593	1.1714e-03	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4737	6.9053e-04	0.0000e+00
62	EMPTY	0.4834	0.4932	0.4881	1.3811e-03	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5032	1.1714e-03	0.0000e+00
64	EMPTY	0.3174	0.3271	0.3225	1.3811e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3423	1.4797e-03	0.0000e+00
66	EMPTY	0.3564	0.3662	0.3604	2.2058e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3770	1.9730e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3910	1.3381e-03	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4101	6.9053e-04	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4252	1.3381e-03	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4495	1.1714e-03	0.0000e+00
72	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4987	1.1715e-03	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5175	6.9053e-04	0.0000e+00
76	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
77	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5760	9.6655e-04	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5993	2.1635e-03	0.0000e+00
80	PAN020136	-9.2915	-6.6975	-7.8725	5.2813e-01	8.7022e-01
81	PAN050136	-17.0586	-14.1594	-15.7524	6.5985e-01	1.6805e+00
82	PAN070136	-10.9229	-9.0156	-9.9891	4.3393e-01	8.7036e-01
83	PAN080136	-5.6897	-4.9267	-5.3433	1.5810e-01	8.7010e-01
84	PAN090136	-5.6060	-5.0719	-5.3878	9.8708e-02	8.7010e-01
85	PAN100136	-4.9663	-4.5848	-4.7451	1.0595e-01	8.7008e-01
86	PAN105136	-2.6401	-2.4112	-2.5272	7.4306e-02	8.7002e-01
87	PAN110136	-2.5418	-2.2366	-2.3785	7.0651e-02	8.7002e-01
88	PAN115136	-2.4524	-2.0709	-2.2464	8.0462e-02	8.7002e-01
89	PAN120136	-3.4294	-3.0479	-3.2524	9.1760e-02	8.7004e-01
90	PAN125136	-3.0920	-2.7105	-2.9196	7.8307e-02	8.7003e-01
91	PAN130136	-2.5462	-2.1647	-2.3493	8.9995e-02	8.7002e-01
92	PAN120048	-5.2392	-4.6288	-4.9050	1.2126e-01	8.7009e-01
93	PAN130048	-5.1776	-4.5673	-4.8877	1.1939e-01	8.7009e-01
94	PAN120224	-5.0808	-4.5467	-4.8595	1.1865e-01	8.7008e-01
95	PAN130224	-4.8122	-4.4308	-4.6444	9.8696e-02	8.7008e-01
96	PAN120312	-5.7101	-5.3287	-5.5224	1.0364e-01	8.7011e-01
97	PAN130312	-4.8884	-4.5070	-4.7282	1.0482e-01	8.7008e-01
98	PAB000136	26.2452	26.7945	26.5080	1.1320e-01	5.8377e-01
99	PAB100136	28.1062	28.2893	28.1868	4.4890e-02	5.8426e-01
100	PAB125136	28.6141	28.7972	28.6709	3.7635e-02	5.8441e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.9931	26.8476	26.3251	1.9268e-01	7.5288e-01
102	PRV000001	26.5800	26.7021	26.6215	5.8413e-02	7.5295e-01
103	PSR000001	28.6106	28.8547	28.7620	5.8152e-02	7.5344e-01
104	PFM000001	9.6870	10.2363	9.9489	1.4088e-01	5.0062e-01
105	PAN000136	68.3558	-57.3695	-63.1281	2.0179e+00	4.9225e+00
106	PFM000002	10.6671	11.3886	11.0577	1.6639e-01	2.0190e-01
107	EMPTY	-0.0049	0.0049	0.0030	2.5894e-03	0.0000e+00
108	EMPTY	10.0000	-9.1504	-9.4775	2.0959e-01	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0002	9.6655e-04	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0213	1.0145e-01	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0295	7.7324e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0214	9.1354e-02	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.0634	1.0559e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0360	8.8233e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0323	1.0625e-01	8.1000e-01
118	IPW000001	-4.1299	1.7272	-1.4747	1.0988e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.2733	1.0250e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	0.0241	1.3325e+00	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.2081	2.6267e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2704	2.7899e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0305	2.9413e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0214	3.6765e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.5420e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0175	2.8058e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.1195e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0485	9.6332e-02	4.1000e+00
129	IHT0000002	-0.2216	0.1690	0.0167	9.0756e-02	4.1000e+00
130	IHT0000003	0.0188	0.2141	0.0383	5.9189e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0494	6.6498e-02	4.1000e+00
132	IHT0000005	-0.0601	0.1352	0.0102	9.4702e-02	4.1000e+00
133	IHT0000006	-0.1465	0.0488	-0.1231	6.4113e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0416	9.8332e-02	4.1000e+00
135	IHT0000008	-0.0488	0.1465	0.0215	9.4702e-02	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0443	7.1136e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0410	7.8523e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	-0.0072	7.8523e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0251	9.9512e-02	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0632	8.6810e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0560	1.0410e-01	4.1000e+00
142	IHT0000015	-0.1953	0.3906	0.0391	1.1161e-01	4.1000e+00
143	IHT0000016	-0.2291	0.1615	-0.0221	6.1257e-02	4.1000e+00
144	IHT0000017	-0.4432	0.1427	-0.0917	1.2478e-01	4.1000e+00
145	IHT0000018	-0.3794	0.2066	-0.0512	1.2750e-01	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.1226	1.0763e-01	4.1000e+00
147	IHT0000020	-0.0601	0.1352	0.0024	9.2034e-02	4.1000e+00
148	IHT0000021	-0.2779	0.1127	-0.0279	9.6976e-02	4.1000e+00
149	IHT0000022	-0.2103	-0.0150	-0.1088	9.8569e-02	4.1000e+00
150	IHT0000023	-0.3080	0.0826	-0.0345	1.0440e-01	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.0696	1.0106e-01	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0992	8.8233e-02	4.1000e+00
153	IHT0000026	-0.2667	0.1240	-0.0675	6.2265e-02	4.1000e+00
154	IHT0000027	-0.2254	-0.0300	-0.0652	7.5798e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0302	1.0052e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2141	0.3718	0.0085	8.8321e-02	4.1000e+00
157	IHT0000030	-0.1653	0.2253	-0.0598	1.1975e-01	4.1000e+00
158	IHT0000031	-0.1352	0.2554	-0.0258	1.1942e-01	4.1000e+00
159	IHT0000032	-0.2066	0.1840	-0.0152	8.3612e-02	4.1000e+00
160	IHT0000033	-0.1953	0.1953	-0.0117	9.9902e-02	4.1000e+00
161	IHT0000034	-0.2216	0.3643	0.0557	1.1897e-01	4.1000e+00
162	IHT0000035	-0.2329	0.1578	0.0171	9.6976e-02	4.1000e+00
163	IHT0000036	0.0000	0.1953	0.0273	6.8459e-02	4.1000e+00

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Velocity 1 - 6.1398 (ft/sec) (+/- 4.7077 %)
 Velocity 2 - 6.7423 (ft/sec) (+/- 2.1240 %)
 Pressure drop - -3.4908 (psi)
 Tsat in - 240.1684 (deg F) Tsat out - 247.3077 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 18071.2715 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 8019.9341 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.6370	75.0626	74.8966	1.6810e-01	1.9000e+00
1	TRF0000002	74.8621	75.2854	75.0695	1.2457e-01	1.9000e+00
2	TFM0000001	86.3120	87.0466	86.7109	1.8840e-01	1.9002e+00
3	TIN0000001	86.0409	86.6726	86.3863	1.4730e-01	1.9002e+00
4	TRV0000001	86.0382	86.8767	86.4953	2.1231e-01	1.9002e+00
5	TSR0000001	86.4870	87.2196	86.7925	1.4645e-01	1.9002e+00
6	TAO020136	86.4214	87.3677	86.8924	2.1890e-01	1.9002e+00
7	TAO050136	86.3944	87.2311	86.8339	1.7954e-01	1.9002e+00
8	TAO070136	84.8288	85.6717	85.2377	2.0390e-01	1.9002e+00
9	TAO080136	86.2855	86.9146	86.6211	1.6661e-01	1.9002e+00
10	TAO090136	86.3599	87.0946	86.7756	1.9869e-01	1.9002e+00
11	TAO100136	86.3288	86.8540	86.6104	1.3160e-01	1.9002e+00
12	TAO105136	86.8194	87.6602	87.2228	2.0188e-01	1.9002e+00
13	TAO110136	84.7588	85.3868	85.1064	1.5494e-01	1.9002e+00
14	TAO115136	86.2728	87.3251	86.8412	2.2409e-01	1.9002e+00
15	TAO120136	86.1130	86.8426	86.5150	1.6014e-01	1.9002e+00
16	TAO125136	86.5065	87.0316	86.7504	1.4918e-01	1.9002e+00
17	TAO130136	85.9386	86.6677	86.4000	1.6882e-01	1.9002e+00
18	TAO120048	86.2449	86.9798	86.5769	1.6208e-01	1.9002e+00
19	TAO130048	85.9700	86.5988	86.3013	1.3646e-01	1.9002e+00
20	TAO120224	86.0648	86.9049	86.4892	1.8252e-01	1.9002e+00
21	TAO130224	86.1814	86.7051	86.4952	1.3728e-01	1.9002e+00
22	TAO120312	86.0949	86.8306	86.4775	1.7603e-01	1.9002e+00
23	TAO130312	86.0307	86.5558	86.3124	1.5365e-01	1.9002e+00
24	TRT020000	86.4990	87.4462	86.9456	2.1638e-01	1.9002e+00
25	TRT070000	86.4638	86.9907	86.7551	1.4206e-01	1.9002e+00
26	TRT100000	86.6201	87.3542	87.0228	2.0137e-01	1.9002e+00
27	TRT120000	86.4257	87.0557	86.7409	1.5150e-01	1.9002e+00
28	TRT125000	86.3947	87.0236	86.7428	1.7222e-01	1.9002e+00
29	TRT130000	86.1967	86.8260	86.5157	1.4685e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6286	2.0869e-01	1.9011e+00
31	TAFO50136	86.3941	87.2329	86.8974	1.9412e-01	1.9002e+00
32	TAFO70136	86.9178	87.7547	87.2781	2.1040e-01	1.9002e+00
33	TAFO80136	86.4414	87.0700	86.7518	1.4485e-01	1.9002e+00
34	TAFO90136	84.4709	85.5216	84.9503	2.7352e-01	1.9002e+00
35	TAFI00136	86.1922	87.0333	86.5792	2.0092e-01	1.9002e+00
36	TAFI05136	86.2240	87.1640	86.7335	2.2647e-01	1.9002e+00
37	TAFI10136	86.0619	86.7961	86.4439	1.5400e-01	1.9002e+00
38	TAFI15136	86.4916	87.5405	86.9869	2.2525e-01	1.9002e+00
39	TAFI20136	86.4181	86.9428	86.7287	1.4382e-01	1.9002e+00
40	TAFI25136	86.3966	87.3355	86.8345	2.5040e-01	1.9002e+00
41	TAFI30136	86.3989	87.0288	86.6973	1.7011e-01	1.9002e+00
42	TAFI20048	86.6561	87.3951	87.0656	1.5618e-01	1.9002e+00
43	TAFI30048	86.2230	86.8532	86.6053	1.7842e-01	1.9002e+00
44	TAFI20224	86.3994	87.1350	86.7696	2.0050e-01	1.9002e+00
45	TAFI30224	85.7695	86.5078	86.2088	1.9097e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	2.1911e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1786	9.2905e-02	1.9010e+00
48	TAI130138	86.2954	87.4507	86.9048	3.0146e-01	1.9002e+00
49	TAI130226	85.9376	86.7765	86.2652	1.9477e-01	1.9002e+00
50	TAI130314	86.3358	87.4928	86.9668	3.0205e-01	1.9002e+00
51	TAI130042	85.9221	86.7632	86.3134	2.1133e-01	1.9002e+00
52	TRI130090	86.0189	86.8583	86.4137	2.0279e-01	1.9002e+00
53	TSI0000001	81.5901	82.4328	82.0369	1.5440e-01	1.9001e+00
54	TSI0000002	71.8793	73.1520	72.5371	2.4329e-01	1.9000e+00
55	TSO0000001	68.0486	68.7972	68.3783	1.9782e-01	1.9000e+00
56	TSO0000002	79.2554	79.9948	79.5893	1.7119e-01	1.9001e+00
57	TAP020136	85.8148	86.5529	86.1103	1.4911e-01	1.9002e+00
58	TAP120312	86.0062	87.0559	86.4389	2.6022e-01	1.9002e+00
59	TAP130312	85.5858	86.3204	86.0057	1.9198e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4591	6.9053e-04	0.0000e+00
61	EMPTY	0.4736	0.4785	0.4737	6.9053e-04	0.0000e+00
62	EMPTY	0.4834	0.4883	0.4881	9.6655e-04	0.0000e+00
63	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
64	EMPTY	0.3174	0.3271	0.3220	1.5314e-03	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3419	6.9053e-04	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3572	1.8082e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3761	6.9053e-04	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3907	6.9053e-04	0.0000e+00
69	EMPTY	0.4053	0.4102	0.4099	1.1714e-03	0.0000e+00
70	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4832	9.6655e-04	0.0000e+00
74	EMPTY	0.4980	0.4980	0.4980	0.0000e+00	0.0000e+00
75	EMPTY	0.5127	0.5176	0.5168	1.8082e-03	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5319	1.1714e-03	0.0000e+00
77	EMPTY	0.5469	0.5518	0.5516	9.6655e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5723	1.9730e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5964	1.7115e-03	0.0000e+00
80	PAN020136	-12.8773	-11.5803	-12.2090	3.4416e-01	8.7054e-01
81	PAN050136	-24.8406	-22.7044	-23.9098	4.1042e-01	1.6811e+00
82	PAN070136	-16.0346	-14.5850	-15.2808	2.8573e-01	8.7084e-01
83	PAN080136	-8.3600	-7.8259	-8.0639	1.4675e-01	8.7023e-01
84	PAN090136	-7.8948	-7.5896	-7.7681	7.1653e-02	8.7022e-01
85	PAN100136	-7.6366	-7.2551	-7.4398	8.8666e-02	8.7020e-01
86	PAN105136	-4.0897	-3.7845	-3.8898	6.3346e-02	8.7005e-01
87	PAN110136	-3.9914	-3.7625	-3.8403	6.6279e-02	8.7005e-01
88	PAN115136	-3.8257	-3.5205	-3.6273	8.3005e-02	8.7005e-01
89	PAN120136	-4.7264	-4.4212	-4.5494	7.4625e-02	8.7007e-01
90	PAN125136	-4.4653	-4.1601	-4.3188	6.3253e-02	8.7007e-01
91	PAN130136	-3.8432	-3.5380	-3.7287	6.2135e-02	8.7005e-01
92	PAN120048	-7.6043	-7.2228	-7.3983	8.4775e-02	8.7020e-01
93	PAN130048	-7.6953	-7.3138	-7.5412	8.6495e-02	8.7020e-01
94	PAN120224	-7.8273	-7.3696	-7.5786	9.0941e-02	8.7021e-01
95	PAN130224	-7.6351	-7.2536	-7.4917	8.2489e-02	8.7020e-01
96	PAN120312	-8.3804	-8.0752	-8.2111	7.7514e-02	8.7024e-01
97	PAN130312	-7.4061	-7.1773	-7.2887	7.0987e-02	8.7019e-01
98	PAB000136	24.8719	25.2381	25.0761	8.3853e-02	5.8338e-01
99	PAB100136	27.6027	27.7858	27.6942	4.7157e-02	5.8412e-01
100	PAB125136	28.3395	28.4768	28.4145	4.2138e-02	5.8433e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	24.6503	25.2607	24.9238	1.0907e-01	7.5258e-01
102	PRV000001	26.7021	26.7021	26.7021	1.9267e-06	7.5296e-01
103	PSR000001	28.6106	28.7327	28.7009	5.4088e-02	7.5342e-01
104	PFM000001	5.4756	5.8418	5.6807	8.9779e-02	5.0020e-01
105	PAN000136	-99.0260	-93.0750	-96.6456	1.3046e+00	4.9259e+00
106	PFM000002	6.7071	7.1937	6.8688	9.9920e-02	2.0074e-01
107	EMPTY	0.0049	0.0049	-0.0009	3.3728e-03	0.0000e+00
108	EMPTY	-9.9512	-9.0332	-9.5245	2.3723e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0005	1.4797e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0057	8.6541e-02	8.1000e-01
113	VPW000002	-0.0451	0.1502	-0.0216	6.4113e-02	8.1000e-01
114	VPW000003	-0.0526	0.1427	0.0021	8.8585e-02	8.1000e-01
115	VPW000004	-0.3681	0.2178	-0.0673	1.1306e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0243	9.5112e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0028	1.0907e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.3575	1.1219e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.8197	1.1721e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	-0.0539	1.0453e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.1593	2.4642e-01	2.0000e+00
122	IPW000005	-1.0516	0.0751	-0.3680	2.6097e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0890	3.2434e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0216	3.4300e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.2603e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0174	3.1444e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0148	3.2658e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0485	7.8523e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0206	9.3043e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0422	8.4997e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0299	7.3716e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0180	9.6655e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0762	9.4702e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0573	9.5765e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0371	9.7935e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0599	4.8166e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0293	9.8648e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0307	6.6498e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0329	1.0168e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0945	7.7324e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0521	9.9902e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0391	8.8233e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0221	7.2866e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0565	1.5530e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0317	9.8963e-02	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1343	9.5765e-02	4.1000e+00
147	IHT000020	-0.0601	0.1352	-0.0132	8.4262e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0397	8.1729e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.0814	1.0145e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0424	9.4702e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0656	9.5112e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0953	8.5454e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0635	3.8662e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0300	3.9459e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0575	1.1409e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	0.0007	9.0412e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0754	1.0595e-01	4.1000e+00
158	IHT000031	-0.1352	0.0601	-0.0532	9.7377e-02	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0035	7.8523e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	8.8233e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0753	9.8569e-02	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0367	1.0358e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0234	7.5283e-02	4.1000e+00

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Velocity 1 = 4.0448 (ft/sec) (+/- 10.4360 %)
 Velocity 2 = 4.8705 (ft/sec) (+/- 3.0389 %)
 Pressure drop = -4.4918 (psi)
 Tsat in = 237.5728 (deg F) Tsat out = 246.9575 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 6786.3994 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 5073.3003 %)
 D inner = 0.1962 (ft) D outer = 0.2413 (ft) D hyd = 0.0389 (ft)
 L inner = 12.8550 (ft) L outer = 12.8070 (ft) A flow = 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	74.9562	1.7328e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.1034	1.2833e-01	1.9000e+00
2	TRF000001	86.6264	87.4662	86.9583	1.8760e-01	1.9002e+00
3	TIN000001	86.3570	86.8829	86.6346	1.3564e-01	1.9002e+00
4	TRV000001	86.3527	87.0861	86.7547	1.9077e-01	1.9002e+00
5	TSR000001	86.5918	87.2201	86.9098	1.4359e-01	1.9002e+00
6	TAO020136	86.6316	87.6826	87.1994	2.3457e-01	1.9002e+00
7	TAO050136	86.6037	87.4412	87.0262	1.7703e-01	1.9002e+00
8	TAO070136	84.9338	85.7772	85.4064	2.0675e-01	1.9002e+00
9	TAO080136	86.4942	87.1237	86.8635	1.4858e-01	1.9002e+00
10	TAO090136	86.5695	87.4093	87.0188	2.1720e-01	1.9002e+00
11	TAO100136	86.5385	87.1690	86.8454	1.6410e-01	1.9002e+00
12	TAO105136	87.0291	87.8702	87.4288	2.0472e-01	1.9002e+00
13	TAO110136	84.8624	85.5972	85.2361	1.6696e-01	1.9002e+00
14	TAO115136	86.5884	87.4309	87.0434	2.2847e-01	1.9002e+00
15	TAO120136	86.4260	87.0549	86.7319	1.6492e-01	1.9002e+00
16	TAO125136	86.6119	87.2417	86.9475	1.6695e-01	1.9002e+00
17	TAO130136	86.2472	86.8748	86.5827	1.5654e-01	1.9002e+00
18	TAO120048	86.5594	87.1899	86.8328	1.6839e-01	1.9002e+00
19	TAO130048	86.1790	86.8090	86.4814	1.5373e-01	1.9002e+00
20	TAO120224	86.3795	87.0103	86.6950	1.6839e-01	1.9002e+00
21	TAO130224	86.1814	87.0185	86.6705	1.7234e-01	1.9002e+00
22	TAO120312	86.0949	87.0408	86.6540	1.9395e-01	1.9002e+00
23	TAO130312	86.1356	86.7660	86.5094	1.3624e-01	1.9002e+00
24	TRT020000	86.7096	87.5519	87.1392	1.9460e-01	1.9002e+00
25	TRT070000	86.6745	87.3073	86.9366	1.5967e-01	1.9002e+00
26	TRT100000	86.8294	87.6687	87.1486	1.8576e-01	1.9002e+00
27	TRT120000	86.5306	87.3706	86.9339	1.4904e-01	1.9002e+00
28	TRT125000	86.4995	87.3373	86.9641	1.8082e-01	1.9002e+00
29	TRT130000	86.4060	87.0361	86.7168	1.4833e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6332	2.1573e-01	1.9011e+00
31	TAF050136	86.7082	87.4421	87.1320	1.5853e-01	1.9002e+00
32	TAF070136	87.1266	88.0681	87.5373	1.9588e-01	1.9002e+00
33	TAF080136	86.6516	87.1754	86.9481	1.2594e-01	1.9002e+00
34	TAF090136	84.5759	85.8368	85.0763	3.1008e-01	1.9002e+00
35	TAF100136	86.5075	87.2435	86.7980	1.5253e-01	1.9002e+00
36	TAF105136	86.5376	87.3721	86.9754	2.1914e-01	1.9002e+00
37	TAF110136	86.3761	87.0063	86.6618	1.6285e-01	1.9002e+00
38	TAF115136	86.8060	87.7499	87.2678	1.9185e-01	1.9002e+00
39	TAF120136	86.6273	87.2572	86.8753	1.7827e-01	1.9002e+00
40	TAF125136	86.4997	87.5456	87.1225	2.3695e-01	1.9002e+00
41	TAF130136	86.6092	87.2383	86.9237	1.6693e-01	1.9002e+00
42	TAF120048	86.9718	87.8164	87.3317	2.0553e-01	1.9002e+00
43	TAF130048	86.5376	87.1682	86.8697	1.8040e-01	1.9002e+00
44	TAF120224	86.6095	87.4503	86.9460	1.9912e-01	1.9002e+00
45	TAF130224	85.9814	86.9303	86.4410	1.9378e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1124	2.1412e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2291	1.1134e-01	1.9010e+00
48	TAI130138	86.5060	87.7658	87.1736	3.2211e-01	1.9002e+00
49	TAI130226	86.1479	86.8819	86.4998	1.8062e-01	1.9002e+00
50	TAI130314	86.5460	87.8084	87.1772	3.3390e-01	1.9002e+00
51	TAI130042	86.1323	87.0785	86.5235	2.2069e-01	1.9002e+00
52	TRR130090	86.0194	87.0684	86.5312	2.1672e-01	1.9002e+00
53	TSI000001	81.5901	82.3282	82.0160	1.8678e-01	1.9001e+00
54	TSI000002	71.9854	73.0468	72.4356	2.7150e-01	1.9000e+00
55	TSO000001	67.8344	68.5837	68.2711	1.9061e-01	1.9000e+00
56	TSO000002	79.2554	80.2061	79.8342	2.0928e-01	1.9001e+00
57	TAP020136	85.9212	86.6593	86.3383	1.8187e-01	1.9002e+00
58	TAF120312	86.2160	87.0564	86.7117	2.5521e-01	1.9002e+00
59	TAF130312	85.7953	86.6346	86.2363	1.6150e-01	1.9002e+00
60	EMPTY	0.4590	0.4639	0.4638	6.9053e-04	0.0000e+00
61	EMPTY	0.4785	0.4834	0.4788	1.1714e-03	0.0000e+00
62	EMPTY	0.4883	0.4932	0.4931	6.9053e-04	0.0000e+00
63	EMPTY	0.5078	0.5078	0.5078	0.0000e+00	0.0000e+00
64	EMPTY	0.3174	0.3223	0.3222	6.9053e-04	0.0000e+00
65	EMPTY	0.3418	0.3467	0.3421	1.1714e-03	0.0000e+00
66	EMPTY	0.3564	0.3613	0.3601	2.1635e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3766	1.6028e-03	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3908	9.6655e-04	0.0000e+00
69	EMPTY	0.4102	0.4102	0.4102	0.0000e+00	0.0000e+00
70	EMPTY	0.4248	0.4297	0.4249	6.9053e-04	0.0000e+00
71	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
72	EMPTY	0.4639	0.4639	0.4639	0.0000e+00	0.0000e+00
73	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
74	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
75	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
76	EMPTY	0.5273	0.5322	0.5321	6.9053e-04	0.0000e+00
77	EMPTY	0.5469	0.5566	0.5518	9.8648e-04	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5750	2.1065e-03	0.0000e+00
79	EMPTY	0.5957	0.6006	0.5983	2.4583e-03	0.0000e+00
80	PAN020136	-16.1580	-15.2425	-15.7567	2.2591e-01	8.7089e-01
81	PAN050136	-30.7915	-29.5708	-30.1354	2.7787e-01	1.6817e+00
82	PAN070136	-20.2308	-19.3916	-19.8127	1.8956e-01	8.7141e-01
83	PAN080136	-10.5725	-10.2673	-10.4092	8.9890e-02	8.7039e-01
84	PAN090136	-9.8784	-9.7258	-9.8021	4.8742e-02	8.7035e-01
85	PAN100136	-9.8491	-9.6202	-9.7667	6.8656e-02	8.7034e-01
86	PAN105136	-5.1578	-4.8526	-4.9823	6.9362e-02	8.7009e-01
87	PAN110136	-5.0595	-4.8306	-4.9451	7.7453e-02	8.7009e-01
88	PAN115136	-4.7412	-4.5886	-4.6954	5.1121e-02	8.7008e-01
89	PAN120136	-5.7945	-5.5656	-5.6480	6.3253e-02	8.7011e-01
90	PAN125136	-5.5334	-5.3045	-5.4113	6.3552e-02	8.7011e-01
91	PAN130136	-4.9113	-4.7587	-4.8136	5.3484e-02	8.7008e-01
92	PAN120048	-9.6642	-9.3591	-9.5055	6.5104e-02	8.7032e-01
93	PAN130048	-9.9841	-9.7552	-9.8758	7.7207e-02	8.7035e-01
94	PAN120224	-9.8873	-9.5821	-9.7759	8.8826e-02	8.7034e-01
95	PAN130224	-10.0002	-9.6950	-9.8431	7.1321e-02	8.7035e-01
96	PAN120312	-10.4404	-10.1352	-10.3381	7.4895e-02	8.7038e-01
97	PAN130312	-9.5424	-9.3135	-9.4813	6.5395e-02	8.7032e-01
98	PAB000136	23.8191	24.0937	23.9454	6.1038e-02	5.8308e-01
99	PAB100136	27.2365	27.3738	27.3308	3.9681e-02	5.8401e-01
100	PAB125136	28.1563	28.2937	28.2424	4.0985e-02	5.8428e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.5517	24.0400	23.7958	9.8648e-02	7.5236e-01
102	PRV000001	26.5800	26.7021	26.6996	1.7263e-02	7.5296e-01
103	PSR000001	28.6106	28.7327	28.6936	5.7521e-02	7.5342e-01
104	PFM000001	2.2713	2.6375	2.4269	7.9017e-02	5.0004e-01
105	PAN000136	-126.4918	-121.9142	-124.3586	1.0569e+00	4.9298e+00
106	PFM000002	3.3511	3.7370	3.5464	8.5208e-02	2.0020e-01
107	EMPTY	-0.0049	0.0049	-0.0026	3.3029e-03	0.0000e+00
108	EMPTY	-9.9805	-9.1504	-9.4614	2.0891e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0009	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0174	9.2034e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0295	7.7324e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0253	9.6735e-02	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0908	9.7377e-02	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0282	9.3043e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0224	9.2456e-02	8.1000e-01
118	IPW000001	-4.1299	1.7272	-1.2795	1.1302e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.7807	1.1990e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	0.1411	1.1066e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.2179	2.4164e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.2899	2.6394e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	0.0281	3.4527e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.5786e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0139	2.2839e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0175	2.8058e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0149	3.0261e-03	0.0000e+00
128	IHT000001	-0.1390	0.4470	0.0368	1.1334e-01	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0167	9.0756e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0305	8.2864e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0182	6.6498e-02	4.1000e+00
132	IHT000005	-0.2554	0.1352	-0.0171	9.0756e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.1270	5.9189e-02	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0455	9.7935e-02	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0137	1.0014e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0482	7.7324e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0527	9.2456e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0150	7.8918e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0212	9.4125e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0632	8.6810e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0560	8.7880e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0273	9.6735e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0338	3.9459e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0526	1.4764e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0278	9.6655e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1187	9.8648e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0093	9.5112e-02	4.1000e+00
148	IHT000021	-0.2779	0.1127	-0.0475	8.5454e-02	4.1000e+00
149	IHT000022	-0.2103	-0.0150	-0.0931	9.6655e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0580	8.8585e-02	4.1000e+00
151	IHT000024	-0.0789	0.1164	0.0813	7.5798e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0718	7.2866e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0557	6.6498e-02	4.1000e+00
154	IHT000027	-0.2254	-0.0300	-0.0613	7.2330e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0263	1.1161e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0242	8.1729e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0715	9.8569e-02	4.1000e+00
158	IHT000031	-0.3305	0.0601	-0.0376	1.0625e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0191	6.7888e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0000	7.8918e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0479	9.5765e-02	4.1000e+00
162	IHT000035	-0.2329	0.3531	0.0484	1.1272e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0313	7.2330e-02	4.1000e+00

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Velocity 1 - 2.9649 (ft/sec) (+/- 19.5650 %)
 Velocity 2 - 4.0260 (ft/sec) (+/- 4.1004 %)
 Pressure drop - -4.8837 (psi)
 Tsat in - 236.7850 (deg F) Tsat out - 247.0117 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 8550.0020 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 3462.1582 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.6370	75.2754	74.9647	1.8343e-01	1.9000e+00
1	TRF0000002	74.8621	75.2854	75.1457	1.0991e-01	1.9000e+00
2	TFM0000001	86.9406	87.6756	87.3647	1.6536e-01	1.9002e+00
3	TIN0000001	86.7770	87.3035	87.0173	1.5179e-01	1.9002e+00
4	TRV0000001	86.7701	87.6086	87.1225	1.8658e-01	1.9002e+00
5	TSR0000001	86.6953	87.3249	87.0894	1.5357e-01	1.9002e+00
6	TAO020136	86.9468	87.8927	87.4515	2.3836e-01	1.9002e+00
7	TAO050136	86.9157	87.6498	87.3727	1.6372e-01	1.9002e+00
8	TAO070136	85.2503	85.9886	85.6383	1.9331e-01	1.9002e+00
9	TAO080136	86.8076	87.4370	87.1682	1.4068e-01	1.9002e+00
10	TAO090136	86.8839	87.7235	87.3624	1.7237e-01	1.9002e+00
11	TAO100136	86.9577	87.4833	87.2184	1.4269e-01	1.9002e+00
12	TAO105136	87.3447	88.2903	87.7776	2.1083e-01	1.9002e+00
13	TAO110136	85.0708	85.8055	85.4698	1.6941e-01	1.9002e+00
14	TAO115136	86.7990	88.0619	87.3675	2.4148e-01	1.9002e+00
15	TAO120136	86.7373	87.2629	87.0399	1.3010e-01	1.9002e+00
16	TAO125136	86.9256	87.5559	87.2660	1.7553e-01	1.9002e+00
17	TAO130136	86.5587	87.1862	86.9095	1.6036e-01	1.9002e+00
18	TAO120048	86.8739	87.6090	87.1640	1.8065e-01	1.9002e+00
19	TAO130048	86.3881	87.0179	86.7615	1.4563e-01	1.9002e+00
20	TAO120224	86.6942	87.4297	87.0306	1.8376e-01	1.9002e+00
21	TAO130224	86.4928	87.3291	86.9952	1.5415e-01	1.9002e+00
22	TAO120312	86.6199	87.4606	86.9899	1.8533e-01	1.9002e+00
23	TAO130312	86.4496	87.1846	86.7816	1.3647e-01	1.9002e+00
24	TRT0200000	87.1304	87.9727	87.5769	2.2353e-01	1.9002e+00
25	TRT0700000	86.9919	87.7297	87.3632	1.7462e-01	1.9002e+00
26	TRT1000000	87.1433	87.8779	87.4668	2.0070e-01	1.9002e+00
27	TRT1200000	86.8450	87.5801	87.2650	1.6010e-01	1.9002e+00
28	TRT1250000	86.8117	87.5457	87.2728	1.7799e-01	1.9002e+00
29	TRT1300000	86.5104	87.2452	87.0056	1.3085e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6332	2.2549e-01	1.9011e+00
31	TAF050136	87.0219	87.9656	87.5086	1.7045e-01	1.9002e+00
32	TAF070136	87.4407	88.1734	87.8963	1.7145e-01	1.9002e+00
33	TAF080136	86.9627	87.5916	87.3313	1.5288e-01	1.9002e+00
34	TAF090136	84.8908	85.9411	85.3576	2.5822e-01	1.9002e+00
35	TAF100136	86.7178	87.5590	87.1722	1.9401e-01	1.9002e+00
36	TAF105136	86.9533	87.7881	87.3377	2.0897e-01	1.9002e+00
37	TAF110136	86.6898	87.4246	87.0427	1.4187e-01	1.9002e+00
38	TAF115136	87.1204	88.0646	87.6365	2.0303e-01	1.9002e+00
39	TAF120136	86.9407	87.4663	87.2392	1.2265e-01	1.9002e+00
40	TAF125136	86.8135	87.9621	87.4227	2.6859e-01	1.9002e+00
41	TAF130136	86.9228	87.7623	87.2756	1.4659e-01	1.9002e+00
42	TAF120048	87.1844	88.0289	87.6485	2.1320e-01	1.9002e+00
43	TAF130048	86.8527	87.5873	87.2219	1.8146e-01	1.9002e+00
44	TAF120224	86.9249	87.8700	87.3365	1.9313e-01	1.9002e+00
45	TAF130224	86.4030	87.2468	86.8126	2.0390e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	1.7534e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130138	86.9256	88.1854	87.4800	3.1094e-01	1.9002e+00
49	TAI130226	86.4609	87.1954	86.8304	1.9192e-01	1.9002e+00
50	TAI130314	86.9669	88.1233	87.5305	3.0542e-01	1.9002e+00
51	TAI130042	86.4476	87.1833	86.8637	1.9102e-01	1.9002e+00
52	TRR130090	86.3339	87.3819	86.8329	2.6674e-01	1.9002e+00
53	TSI0000001	81.3797	82.3282	81.9488	1.9509e-01	1.9001e+00
54	TSI0000002	71.8795	72.8350	72.3425	2.7251e-01	1.9000e+00
55	TSO0000001	67.5137	68.7972	68.2495	2.1358e-01	1.9000e+00
56	TSO0000002	79.4668	80.4170	79.9481	2.2688e-01	1.9001e+00
57	TAF020136	86.3427	87.0806	86.6887	1.6768e-01	1.9002e+00
58	TAF120312	86.5306	87.6852	87.0556	2.8744e-01	1.9002e+00
59	TAF130312	86.2141	86.9492	86.5630	1.7918e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4710	2.4583e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4845	2.0432e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5139	2.1065e-03	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3260	2.1065e-03	0.0000e+00
65	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3617	1.3381e-03	0.0000e+00
67	EMPTY	0.3760	0.3809	0.3808	6.9053e-04	0.0000e+00
68	EMPTY	0.3906	0.3955	0.3953	9.6655e-04	0.0000e+00
69	EMPTY	0.4102	0.4150	0.4131	2.4164e-03	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4492	0.4541	0.4536	1.4797e-03	0.0000e+00
72	EMPTY	0.4639	0.4688	0.4663	2.4662e-03	0.0000e+00
73	EMPTY	0.4834	0.4883	0.4853	2.3941e-03	0.0000e+00
74	EMPTY	0.4980	0.5029	0.5026	1.1714e-03	0.0000e+00
75	EMPTY	0.5176	0.5225	0.5188	2.1065e-03	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5327	1.4797e-03	0.0000e+00
77	EMPTY	0.5518	0.5566	0.5521	1.3381e-03	0.0000e+00
78	EMPTY	0.5713	0.5762	0.5761	6.9053e-04	0.0000e+00
79	EMPTY	0.6006	0.6055	0.6007	6.9053e-04	0.0000e+00
80	PAN020136	-17.6076	-16.6920	-17.1986	2.0142e-01	8.7106e-01
81	PAN050136	-33.0803	-32.0122	-32.6836	2.3679e-01	1.6820e+00
82	PAN070136	-22.0619	-21.1463	-21.6071	2.0271e-01	8.7168e-01
83	PAN080136	-11.7932	-11.3354	-11.5139	1.1073e-01	8.7048e-01
84	PAN090136	-10.4125	-10.1836	-10.2965	6.7610e-02	8.7038e-01
85	PAN100136	-10.8409	-10.5358	-10.6487	6.3999e-02	8.7041e-01
86	PAN105136	-5.5392	-5.2341	-5.3653	6.9001e-02	8.7010e-01
87	PAN110136	-5.4410	-5.2884	-5.3799	5.5575e-02	8.7010e-01
88	PAN115136	-5.1990	-4.9701	-5.0555	6.4738e-02	8.7009e-01
89	PAN120136	-6.0997	-5.9471	-6.0127	5.3417e-02	8.7013e-01
90	PAN125136	-5.9912	-5.7623	-5.8569	5.6759e-02	8.7012e-01
91	PAN130136	-5.3691	-5.1402	-5.2455	6.3346e-02	8.7010e-01
92	PAN120048	-10.4272	-10.1983	-10.2975	5.3948e-02	8.7038e-01
93	PAN130048	-10.8997	-10.5945	-10.7318	6.5395e-02	8.7041e-01
94	PAN120224	-10.8028	-10.6502	-10.7265	5.7673e-02	8.7041e-01
95	PAN130224	-10.9158	-10.6869	-10.7693	6.8656e-02	8.7042e-01
96	PAN120312	-11.3559	-11.0507	-11.1880	6.5395e-02	8.7045e-01
97	PAN130312	-10.4579	-10.3053	-10.3389	5.1492e-02	8.7038e-01
98	PAB000136	23.4986	23.7733	23.6103	6.4843e-02	5.8300e-01
99	PAB100136	27.1907	27.3738	27.2822	3.9237e-02	5.8400e-01
100	PAB125136	28.2479	28.2937	28.2690	2.3046e-02	5.8429e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.1855	23.5517	23.3613	7.4641e-02	7.5227e-01
102	PRV000001	26.5800	26.7021	26.6996	1.7263e-02	7.5296e-01
103	PSR000001	28.6106	28.8547	28.7400	3.8286e-02	7.5343e-01
104	PFM000001	1.1726	1.4473	1.2825	8.0624e-02	5.0001e-01
105	PAN000136	136.5626	133.3582	-135.2076	8.0603e-01	4.9316e+00
106	PFM000002	2.2101	2.5457	2.4037	7.1127e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	-0.0037	2.3261e-03	0.0000e+00
108	EMPTY	-9.9170	-9.0625	-9.4451	2.0034e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0014	2.2146e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0331	9.6655e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0216	8.4997e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	0.0021	1.0470e-01	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.0673	9.8332e-02	8.1000e-01
116	VPW000005	-0.1202	0.0751	0.0400	7.5798e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	0.0206	1.0106e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-0.6547	1.2653e+00	8.1000e+00
119	IPW000002	-2.9267	2.9271	0.0002	1.1323e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.2099	1.2458e+00	8.1000e+00
121	IPW000004	-0.4132	0.0751	-0.0616	2.2146e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.0946	2.4081e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.1476	3.4187e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0203	3.1752e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0142	2.2603e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0165	3.1023e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0145	3.1133e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0446	8.2864e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0284	9.6976e-02	4.1000e+00
130	IHT000003	-0.1765	0.4094	0.0344	8.6810e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0338	8.8233e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0024	9.2034e-02	4.1000e+00
133	IHT000006	-0.1465	0.0488	-0.0918	8.8585e-02	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0533	1.0440e-01	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0488	9.8648e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0677	7.3716e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0371	6.1257e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	-0.0189	4.8166e-02	4.1000e+00
139	IHT000012	-0.0563	0.1390	-0.0173	7.8918e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0789	3.9459e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0638	6.8345e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0156	5.3525e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0299	2.7621e-02	4.1000e+00
144	IHT000017	-0.4432	0.1427	-0.0604	1.5262e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0278	8.8233e-02	4.1000e+00
146	IHT000019	-0.2554	0.1352	-0.1148	9.6976e-02	4.1000e+00
147	IHT000020	-0.2554	0.3305	-0.0250	9.4125e-02	4.1000e+00
148	IHT000021	-0.0826	0.3080	-0.0397	9.0756e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.0736	9.8648e-02	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0502	9.2034e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.1047	6.1257e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0953	8.5454e-02	4.1000e+00
153	IHT000026	-0.2667	0.1240	-0.0596	7.2866e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0457	7.7324e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0224	1.0799e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2141	0.1765	-0.0071	7.2866e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0872	9.6655e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0415	1.0617e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0152	7.3716e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0078	7.8523e-02	4.1000e+00
161	IHT000034	-0.2216	0.1690	0.0440	1.0259e-01	4.1000e+00
162	IHT000035	-0.0375	0.3531	0.0289	1.0145e-01	4.1000e+00
163	IHT000036	0.0000	0.1953	0.0352	7.5798e-02	4.1000e+00

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Velocity 1 - 2.0966 (ft/sec) (+/- 40.0264 %)
 Velocity 2 - 3.4452 (ft/sec) (+/- 5.4172 %)
 Pressure drop - -5.1311 (psi)
 Tstat in - 236.4030 (deg F) Tstat out - 247.2315 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 9052.5488 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 2335.0264 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	74.6370	75.2754	74.9732	1.8781e-01	1.9000e+00
1	TRF0000002	74.8621	75.2854	75.1838	1.1503e-01	1.9000e+00
2	TRF0000001	87.0466	87.8849	87.5553	1.8936e-01	1.9002e+00
3	TIN0000001	86.8824	87.5136	87.1624	1.4345e-01	1.9002e+00
4	TRV0000001	86.8754	87.9208	87.3670	2.1169e-01	1.9002e+00
5	TSR0000001	86.8001	87.4283	87.1584	1.3749e-01	1.9002e+00
6	TAO20136	87.1570	88.1033	87.6637	2.5974e-01	1.9002e+00
7	TAO50136	87.1258	87.8583	87.5334	1.3751e-01	1.9002e+00
8	TAO70136	85.3558	86.1989	85.7795	1.8374e-01	1.9002e+00
9	TAO80136	87.0162	87.6455	87.2997	1.5001e-01	1.9002e+00
10	TAO90136	87.0939	87.9328	87.5530	2.0626e-01	1.9002e+00
11	TAO100136	86.9583	87.6927	87.3672	1.5903e-01	1.9002e+00
12	TAO105136	87.5543	88.2904	87.9141	1.6999e-01	1.9002e+00
13	TAO110136	85.2807	85.9084	85.5887	1.6188e-01	1.9002e+00
14	TAO115136	87.1150	87.9567	87.5380	2.1308e-01	1.9002e+00
15	TAO120136	86.9469	87.4708	87.2252	1.5488e-01	1.9002e+00
16	TAO125136	87.1352	87.8700	87.4398	1.6724e-01	1.9002e+00
17	TAO130136	86.7653	87.3927	86.9987	1.2568e-01	1.9002e+00
18	TAO120048	86.9787	87.6090	87.3295	1.6913e-01	1.9002e+00
19	TAO130048	86.5970	87.2268	86.9225	1.6986e-01	1.9002e+00
20	TAO120224	86.7992	87.5347	87.2089	1.6469e-01	1.9002e+00
21	TAO130224	86.8056	87.4344	87.1389	1.4906e-01	1.9002e+00
22	TAO120312	86.7253	87.4606	87.1684	1.6614e-01	1.9002e+00
23	TAO130312	86.6592	87.3938	86.9680	1.4138e-01	1.9002e+00
24	TRT020000	87.1308	88.1827	87.6673	2.0189e-01	1.9002e+00
25	TRT070000	87.2026	87.7297	87.4877	1.3496e-01	1.9002e+00
26	TRT100000	87.2480	88.0871	87.7283	2.0525e-01	1.9002e+00
27	TRT120000	87.1594	87.7896	87.4515	1.6600e-01	1.9002e+00
28	TRT125000	87.1255	87.8570	87.4792	1.6762e-01	1.9002e+00
29	TRT130000	86.8244	87.4543	87.1583	1.6911e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6653	2.0112e-01	1.9011e+00
31	TAF050136	87.2320	87.9656	87.6697	1.6092e-01	1.9002e+00
32	TAF070136	87.6494	88.5905	88.0529	2.1552e-01	1.9002e+00
33	TAF080136	87.1709	87.7997	87.4584	1.6741e-01	1.9002e+00
34	TAF090136	84.8909	86.0465	85.4982	2.8874e-01	1.9002e+00
35	TAF100136	87.0329	87.5592	87.3382	1.5643e-01	1.9002e+00
36	TAF105136	86.8491	87.8934	87.4523	2.3751e-01	1.9002e+00
37	TAF110136	86.7946	87.5284	87.1787	1.6629e-01	1.9002e+00
38	TAF115136	87.4346	88.1687	87.7727	2.0016e-01	1.9002e+00
39	TAF120136	87.1508	87.6752	87.4462	1.3022e-01	1.9002e+00
40	TAF125136	87.1249	88.0650	87.5707	2.2581e-01	1.9002e+00
41	TAF130136	87.1335	87.7623	87.4286	1.5822e-01	1.9002e+00
42	TAF120048	87.3958	88.1336	87.8321	1.6517e-01	1.9002e+00
43	TAF130048	87.0623	87.6915	87.3623	1.8233e-01	1.9002e+00
44	TAF120224	87.0295	87.8700	87.4981	2.1134e-01	1.9002e+00
45	TAF130224	86.6147	87.2468	86.9413	1.8832e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0664	1.6909e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1648	6.2930e-02	1.9010e+00
48	TAI130138	86.9254	88.1846	87.6541	3.0312e-01	1.9002e+00
49	TAI130226	86.5663	87.4044	86.9632	1.7874e-01	1.9002e+00
50	TAI130314	87.0719	88.2282	87.7470	2.8344e-01	1.9002e+00
51	TAI130042	86.7625	87.6031	87.0884	2.1671e-01	1.9002e+00
52	TRR130090	86.3339	87.5913	86.9816	2.4852e-01	1.9002e+00
53	TSI0000001	81.4856	82.3282	81.9004	2.0017e-01	1.9001e+00
54	TSI0000002	71.8801	72.8350	72.4887	2.2757e-01	1.9000e+00
55	TSO0000001	67.9408	68.6900	68.3543	1.8848e-01	1.9000e+00
56	TSO0000002	79.5718	80.4170	80.0319	1.8201e-01	1.9001e+00
57	TAF020136	86.4485	87.2917	86.8596	1.7848e-01	1.9002e+00
58	TAF120312	86.6355	87.6852	87.2213	2.3037e-01	1.9002e+00
59	TAF130312	86.3190	86.9492	86.6991	1.6545e-01	1.9002e+00
60	EMPTY	0.4688	0.4785	0.4736	9.8648e-04	0.0000e+00
61	EMPTY	0.4883	0.4932	0.4884	6.9053e-04	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5028	6.9053e-04	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5177	6.9053e-04	0.0000e+00
64	EMPTY	0.3223	0.3271	0.3270	9.6655e-04	0.0000e+00
65	EMPTY	0.3467	0.3516	0.3470	1.1714e-03	0.0000e+00
66	EMPTY	0.3613	0.3662	0.3646	2.3365e-03	0.0000e+00
67	EMPTY	0.3809	0.3809	0.3809	0.0000e+00	0.0000e+00
68	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
69	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
70	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
71	EMPTY	0.4541	0.4590	0.4542	6.9053e-04	0.0000e+00
72	EMPTY	0.4688	0.4688	0.4688	0.0000e+00	0.0000e+00
73	EMPTY	0.4883	0.4932	0.4884	6.9053e-04	0.0000e+00
74	EMPTY	0.5029	0.5078	0.5031	9.6655e-04	0.0000e+00
75	EMPTY	0.5176	0.5273	0.5225	9.8648e-04	0.0000e+00
76	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
77	EMPTY	0.5518	0.5664	0.5567	1.8429e-03	0.0000e+00
78	EMPTY	0.5762	0.5811	0.5783	2.4484e-03	0.0000e+00
79	EMPTY	0.5957	0.6055	0.6025	2.6100e-03	0.0000e+00
80	PAN020136	-18.2942	-17.6076	-18.0058	1.4808e-01	8.7116e-01
81	PAN050136	-34.7588	-33.6907	-34.2797	2.3681e-01	1.6822e+00
82	PAN070136	-22.9774	-22.3670	-22.7226	1.3839e-01	8.7185e-01
83	PAN080136	-12.2509	-11.8695	-12.0465	8.3633e-02	8.7052e-01
84	PAN090136	-10.9465	-10.6414	-10.8077	7.9631e-02	8.7042e-01
85	PAN100136	-11.2987	-10.9935	-11.1766	6.3552e-02	8.7045e-01
86	PAN105136	-5.7681	-5.5392	-5.6720	6.1288e-02	8.7012e-01
87	PAN110136	-5.8224	-5.5173	-5.6561	5.9077e-02	8.7011e-01
88	PAN115136	-5.5041	-5.2753	-5.3821	5.7673e-02	8.7010e-01
89	PAN120136	-6.0997	-5.9471	-6.0173	5.0748e-02	8.7013e-01
90	PAN125136	-6.1438	-5.9912	-6.0415	4.2521e-02	8.7013e-01
91	PAN130136	-5.5979	-5.3691	-5.5018	5.5167e-02	8.7011e-01
92	PAN120048	-11.0375	-10.7323	-10.8910	7.0365e-02	8.7043e-01
93	PAN130048	-11.4337	-11.2048	-11.2750	6.1346e-02	8.7046e-01
94	PAN120224	-11.3369	-11.1080	-11.2148	5.1121e-02	8.7045e-01
95	PAN130224	-11.3735	-11.2209	-11.2881	5.2588e-02	8.7046e-01
96	PAN120312	-11.8136	-11.5085	-11.6565	6.7908e-02	8.7049e-01
97	PAN130312	-11.1446	-10.8394	-11.0118	6.1288e-02	8.7044e-01
98	PAB000136	23.3613	23.5444	23.4492	4.1194e-02	5.8296e-01
99	PAB100136	27.2365	27.3738	27.3207	4.0692e-02	5.8401e-01
100	PAB125136	28.2937	28.4310	28.3770	3.7782e-02	5.8432e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	23.1855	23.5517	23.3686	7.0836e-02	7.5227e-01
102	PRV000001	26.5800	26.7021	26.6947	2.9284e-02	7.5296e-01
103	PSR000001	28.8547	28.9768	28.8767	4.7374e-03	7.5347e-01
104	PFH000001	0.5317	0.7149	0.6251	6.7935e-02	5.0000e-01
105	PAN000136	143.4290	140.6825	142.0557	7.0432e-01	4.9328e+00
106	PFH000002	1.6564	1.8409	1.7466	3.8636e-02	2.0005e-01
107	EMPTY	-0.0049	0.0000	-0.0043	1.6028e-03	0.0000e+00
108	EMPTY	-9.6973	-9.0088	-9.3099	1.4666e-01	0.0000e+00
109	EMPTY	-0.0049	0.0000	-0.0012	2.1065e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1714e-03	0.0000e+00
112	VPW000001	-0.0451	0.1502	-0.0138	7.2330e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0373	5.5243e-02	8.1000e-01
114	VPW000003	-0.2479	0.3380	0.0099	1.2124e-01	8.1000e-01
115	VPW000004	-0.1728	0.0225	-0.1025	9.4702e-02	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0126	1.0014e-01	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0146	9.9902e-02	8.1000e-01
118	IPW000001	-2.1775	1.7272	-1.3966	1.1156e+00	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.7416	1.2859e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.5999	8.8092e-01	8.1000e+00
121	IPW000004	-0.9015	0.0751	-0.3937	1.3811e-01	2.0000e+00
122	IPW000005	-0.5633	0.4131	-0.1825	2.6632e-01	2.0000e+00
123	IPW000006	-0.7043	0.7606	-0.0988	3.2057e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	3.2178e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	3.3728e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0176	3.5568e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0151	3.0003e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0485	1.0410e-01	4.1000e+00
129	IHT0000002	-0.2216	0.1690	0.0167	9.0756e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0305	7.2866e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0338	8.8233e-02	4.1000e+00
132	IHT0000005	-0.0601	0.3305	0.0102	1.0259e-01	4.1000e+00
133	IHT0000006	-0.1465	0.2441	-0.0918	9.6976e-02	4.1000e+00
134	IHT0000007	-0.0638	0.3268	0.0924	9.6655e-02	4.1000e+00
135	IHT0000008	-0.0488	0.1465	0.0449	9.8569e-02	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0404	8.4997e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0723	1.0168e-01	4.1000e+00
138	IHT0000011	-0.0150	0.1803	0.0084	6.4113e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	-0.0095	1.0106e-01	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0711	6.7888e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0756	8.2864e-02	4.1000e+00
142	IHT0000015	-0.1953	0.1953	0.0234	8.4997e-02	4.1000e+00
143	IHT0000016	-0.2291	0.1615	-0.0104	7.5283e-02	4.1000e+00
144	IHT0000017	-0.4432	0.3380	-0.0370	1.9266e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0512	1.0763e-01	4.1000e+00
146	IHT0000019	-0.2554	-0.0601	-0.1226	9.2034e-02	4.1000e+00
147	IHT0000020	-0.0601	0.3305	-0.0132	9.3043e-02	4.1000e+00
148	IHT0000021	-0.0826	0.1127	-0.0397	8.1729e-02	4.1000e+00
149	IHT0000022	-0.2103	0.1803	-0.1049	1.0595e-01	4.1000e+00
150	IHT0000023	-0.1127	0.0826	-0.0424	9.4702e-02	4.1000e+00
151	IHT0000024	-0.0789	0.1164	0.0735	8.1729e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0796	9.8648e-02	4.1000e+00
153	IHT0000026	-0.0714	0.1240	-0.0323	7.8918e-02	4.1000e+00
154	IHT0000027	-0.2254	-0.0300	-0.0574	6.8459e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0458	1.1334e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0188	0.1765	0.0046	6.4113e-02	4.1000e+00
157	IHT0000030	-0.1653	0.2253	-0.0793	1.0559e-01	4.1000e+00
158	IHT0000031	-0.3305	0.2554	-0.0571	1.1161e-01	4.1000e+00
159	IHT0000032	-0.2066	0.1840	-0.0035	6.7888e-02	4.1000e+00
160	IHT0000033	-0.1953	0.1953	0.0000	5.5804e-02	4.1000e+00
161	IHT0000034	-0.0263	0.1690	0.0167	8.1729e-02	4.1000e+00
162	IHT0000035	-0.0375	0.1578	0.0523	9.8332e-02	4.1000e+00
163	IHT0000036	-0.1953	0.1953	0.0156	6.6498e-02	4.1000e+00

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Velocity 1 - 5.0509 (ft/sec) (+/- 6.7571 %)
 Velocity 2 - 5.7294 (ft/sec) (+/- 2.4740 %)
 Pressure drop - -4.0527 (psi)
 Tsat in - 239.1814 (deg F) Tsat out - 247.5414 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 25612.2344 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 3373.0054 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.6370	75.2754	75.0541	1.7702e-01	1.9000e+00
1	TRF000002	74.8621	75.2854	75.1626	1.1383e-01	1.9000e+00
2	TFM000001	87.3602	88.3036	87.9366	2.1194e-01	1.9002e+00
3	TIN000001	87.1982	87.9340	87.6040	1.4710e-01	1.9002e+00
4	TRV000001	87.2932	88.2330	87.7097	1.9402e-01	1.9002e+00
5	TSR000001	87.1129	87.6376	87.4176	1.4987e-01	1.9002e+00
6	TAO020136	87.6827	88.6280	88.1386	2.4711e-01	1.9002e+00
7	TAO050136	87.6462	88.2752	88.0217	1.4671e-01	1.9002e+00
8	TAO070136	85.6723	86.4097	86.1254	1.9766e-01	1.9002e+00
9	TAO080136	87.5386	88.0623	87.8046	1.5714e-01	1.9002e+00
10	TAO090136	87.6175	88.4560	88.0180	1.8663e-01	1.9002e+00
11	TAO100136	87.5869	88.1116	87.8618	1.2872e-01	1.9002e+00
12	TAO105136	88.0798	88.8157	88.3764	2.0968e-01	1.9002e+00
13	TAO110136	85.5926	86.2221	85.9267	1.6074e-01	1.9002e+00
14	TAO115136	87.5362	88.4827	88.0264	2.2648e-01	1.9002e+00
15	TAO120136	87.3633	88.0944	87.7122	1.4294e-01	1.9002e+00
16	TAO125136	87.6588	88.2887	87.9761	1.7277e-01	1.9002e+00
17	TAO130136	87.1785	87.9074	87.6024	1.5269e-01	1.9002e+00
18	TAO120048	87.5031	88.2373	87.8200	1.7287e-01	1.9002e+00
19	TAO130048	87.1202	87.7480	87.4617	1.5380e-01	1.9002e+00
20	TAO120224	87.3241	88.0587	87.6788	1.7344e-01	1.9002e+00
21	TAO130224	87.4295	87.9532	87.6674	1.4164e-01	1.9002e+00
22	TAO120312	87.2498	88.0901	87.6429	1.7598e-01	1.9002e+00
23	TAO130312	87.1823	87.7075	87.4662	1.2768e-01	1.9002e+00
24	TRT020000	87.5518	88.6033	88.1387	2.3469e-01	1.9002e+00
25	TRT070000	87.6256	88.3631	87.9734	1.6515e-01	1.9002e+00
26	TRT100000	87.8757	88.5052	88.1804	1.4395e-01	1.9002e+00
27	TRT120000	87.5784	88.2084	87.9460	1.3108e-01	1.9002e+00
28	TRT125000	87.5417	88.2736	87.9254	1.6586e-01	1.9002e+00
29	TRT130000	87.3480	87.9762	87.6980	1.3348e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6194	2.2912e-01	1.9011e+00
31	TAFO50136	87.8594	88.4874	88.1299	1.4055e-01	1.9002e+00
32	TAFO70136	88.0668	89.0076	88.5205	2.0645e-01	1.9002e+00
33	TAFO80136	87.5872	88.2158	87.9499	1.5408e-01	1.9002e+00
34	TAFO90136	85.3118	86.4659	85.8215	2.5620e-01	1.9002e+00
35	TAF100136	87.4539	88.1894	87.8385	1.8701e-01	1.9002e+00
36	TAF105136	87.3700	88.3092	87.9103	2.3983e-01	1.9002e+00
37	TAF110136	87.3183	88.0518	87.6516	1.6084e-01	1.9002e+00
38	TAF115136	87.8534	88.6925	88.2502	1.9781e-01	1.9002e+00
39	TAF120136	87.6726	88.0931	87.9229	1.2167e-01	1.9002e+00
40	TAF125136	87.5438	88.5866	88.0875	2.6760e-01	1.9002e+00
41	TAF130136	87.5511	88.1809	87.9061	1.5112e-01	1.9002e+00
42	TAF120048	87.7124	88.6612	88.2714	2.1961e-01	1.9002e+00
43	TAF130048	87.4815	88.2157	87.8612	1.9293e-01	1.9002e+00
44	TAF120224	87.4494	88.2897	87.9432	1.9232e-01	1.9002e+00
45	TAF130224	87.1425	87.7747	87.3932	1.7145e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0940	2.0820e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1419	8.6680e-02	1.9010e+00
48	TAI130138	87.5553	88.7098	88.0948	3.0862e-01	1.9002e+00
49	TAI130226	86.9847	87.9272	87.4810	2.1863e-01	1.9002e+00
50	TAI130314	87.5978	88.6485	88.1801	2.7615e-01	1.9002e+00
51	TAI130042	87.0778	88.0228	87.5714	1.9471e-01	1.9002e+00
52	TRR130090	86.9624	87.9059	87.4048	2.3320e-01	1.9002e+00
53	TSI000001	81.5908	82.2225	81.8670	1.6339e-01	1.9001e+00
54	TSI000002	71.8801	72.9402	72.4974	2.6205e-01	1.9000e+00
55	TSO000001	68.1554	69.9041	68.4229	1.8369e-01	1.9000e+00
56	TSO000002	79.6778	80.4170	80.0179	2.0384e-01	1.9001e+00
57	TAF020136	86.9762	87.7137	87.3198	1.8411e-01	1.9002e+00
58	TAF120312	87.1602	88.1042	87.6783	2.5799e-01	1.9002e+00
59	TAF130312	86.8430	87.5769	87.2141	1.8130e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4842	1.8082e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.4988	1.8082e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5285	2.1065e-03	0.0000e+00
64	EMPTY	0.3320	0.3320	0.3320	0.0000e+00	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3520	1.3381e-03	0.0000e+00
66	EMPTY	0.3662	0.3809	0.3704	2.4184e-03	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3859	9.6655e-04	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4006	9.6655e-04	0.0000e+00
69	EMPTY	0.4150	0.4199	0.4197	9.6655e-04	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4348	9.6655e-04	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4591	6.9053e-04	0.0000e+00
72	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
73	EMPTY	0.4932	0.4932	0.4932	0.0000e+00	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
75	EMPTY	0.5225	0.5273	0.5272	6.9053e-04	0.0000e+00
76	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
77	EMPTY	0.5566	0.5664	0.5615	9.8648e-04	0.0000e+00
78	EMPTY	0.5811	0.5859	0.5835	2.4662e-03	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6065	2.0432e-03	0.0000e+00
80	PAN020136	-14.7847	-13.4877	-14.1972	2.9579e-01	8.7072e-01
81	PAN050136	-28.1975	-26.3665	-27.4163	4.1775e-01	1.6814e+00
82	PAN070136	-18.5523	-17.2553	-17.9084	2.9211e-01	8.7115e-01
83	PAN080136	-9.5044	-9.0466	-9.3411	9.8708e-02	8.7031e-01
84	PAN090136	-9.0392	-8.6577	-8.8591	8.9559e-02	8.7028e-01
85	PAN100136	-9.0099	-8.5521	-8.7459	9.0154e-02	8.7027e-01
86	PAN105136	-4.7000	-4.3948	-4.5398	6.0192e-02	8.7007e-01
87	PAN110136	-4.6017	-4.2966	-4.4720	7.2706e-02	8.7007e-01
88	PAN115136	-4.3597	-4.1308	-4.2666	7.4386e-02	8.7007e-01
89	PAN120136	-5.2605	-5.0316	-5.1170	6.8309e-02	8.7009e-01
90	PAN125136	-5.0756	-4.8468	-4.9566	6.5685e-02	8.7009e-01
91	PAN130136	-4.4535	-4.2246	-4.3360	4.6777e-02	8.7007e-01
92	PAN120048	-8.8250	-8.4435	-8.6343	9.1514e-02	8.7027e-01
93	PAN130048	-8.9923	-8.6108	-8.8153	8.6427e-02	8.7028e-01
94	PAN120224	-8.9718	-8.5903	-8.7871	7.7207e-02	8.7028e-01
95	PAN130224	-8.9321	-8.5506	-8.7871	8.1925e-02	8.7028e-01
96	PAN120312	-9.4485	-9.1434	-9.3051	7.4943e-02	8.7031e-01
97	PAN130312	-8.7794	-8.3980	-8.5490	7.9332e-02	8.7026e-01
98	PAB000136	24.5057	24.7804	24.6412	7.9535e-02	5.8326e-01
99	PAB100136	27.6484	27.7858	27.7079	4.0576e-02	5.8412e-01
100	PAB125136	28.4768	28.6141	28.5299	4.3731e-02	5.8437e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	24.2841	24.7724	24.5576	1.3633e-01	7.5251e-01
102	PRV0000001	26.5800	26.7021	26.6996	1.7263e-02	7.5296e-01
103	PSR0000001	28.8547	28.9768	28.8938	5.7521e-02	7.5347e-01
104	PFH0000001	3.6445	4.0108	3.8185	7.6822e-02	5.0009e-01
105	PAN000136	-115.0477	-109.0968	-112.2004	1.4484e+00	4.9280e+00
106	PFH0000002	4.7438	5.1130	4.9348	8.9685e-02	2.0038e-01
107	EMPTY	-0.0049	0.0049	-0.0025	3.1567e-03	0.0000e+00
108	EMPTY	-9.8877	-9.0869	-9.4113	1.6877e-01	0.0000e+00
109	EMPTY	-0.0049	0.0049	-0.0005	2.0337e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW0000001	-0.2404	0.1502	-0.0060	9.6655e-02	8.1000e-01
113	VPW0000002	-0.2404	0.1502	-0.0529	8.7880e-02	8.1000e-01
114	VPW0000003	-0.2479	0.3380	-0.0018	1.0297e-01	8.1000e-01
115	VPW0000004	-0.1728	0.0225	-0.0712	9.8569e-02	8.1000e-01
116	VPW0000005	-0.1202	0.2704	0.0165	9.8648e-02	8.1000e-01
117	VPW0000006	-0.2216	0.1690	-0.0107	9.5357e-02	8.1000e-01
118	IPW0000001	-2.1775	1.7272	-1.2795	1.1302e+00	8.1000e+00
119	IPW0000002	-0.9755	2.9271	0.1953	1.1150e+00	8.1000e+00
120	IPW0000003	-2.5499	1.3501	-0.8729	1.1150e+00	8.1000e+00
121	IPW0000004	-0.9015	0.0751	-0.4230	2.0903e-01	2.0000e+00
122	IPW0000005	-0.5633	0.4131	-0.0263	2.6559e-01	2.0000e+00
123	IPW0000006	-0.7043	0.2723	-0.1574	3.3656e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0205	3.2718e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0141	2.5420e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0167	3.1335e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.8155e-03	0.0000e+00
128	IHT0000001	-0.1390	0.2516	0.0368	9.8648e-02	4.1000e+00
129	IHT0000002	-0.0263	0.1690	0.0362	9.2034e-02	4.1000e+00
130	IHT0000003	-0.1765	0.2141	0.0266	7.8523e-02	4.1000e+00
131	IHT0000004	-0.1615	0.2291	0.0338	7.8918e-02	4.1000e+00
132	IHT0000005	-0.0601	0.1352	0.0219	9.7377e-02	4.1000e+00
133	IHT0000006	-0.1465	0.0488	-0.0840	9.2034e-02	4.1000e+00
134	IHT0000007	-0.0638	0.1315	0.0690	9.2034e-02	4.1000e+00
135	IHT0000008	-0.2442	0.1465	0.0254	1.0358e-01	4.1000e+00
136	IHT0000009	-0.1315	0.2591	0.0365	8.8321e-02	4.1000e+00
137	IHT0000010	-0.1465	0.2441	0.0488	8.8233e-02	4.1000e+00
138	IHT0000011	-0.2104	0.1803	0.0045	7.1136e-02	4.1000e+00
139	IHT0000012	-0.2517	0.1390	0.0062	1.0763e-01	4.1000e+00
140	IHT0000013	-0.2742	0.1164	-0.0750	9.2456e-02	4.1000e+00
141	IHT0000014	-0.1315	0.2591	0.0873	8.4997e-02	4.1000e+00
142	IHT0000015	-0.1953	0.1953	0.0391	8.8233e-02	4.1000e+00
143	IHT0000016	-0.2291	0.1615	-0.0221	7.2866e-02	4.1000e+00
144	IHT0000017	-0.4432	0.3380	-0.0721	1.8613e-01	4.1000e+00
145	IHT0000018	-0.1841	0.2066	-0.0434	1.0470e-01	4.1000e+00
146	IHT0000019	-0.2554	0.1352	-0.1382	1.0440e-01	4.1000e+00
147	IHT0000020	-0.2554	0.1352	-0.0367	7.5283e-02	4.1000e+00
148	IHT0000021	-0.2779	0.1127	-0.0709	7.2866e-02	4.1000e+00
149	IHT0000022	-0.2103	-0.0150	-0.0970	9.7377e-02	4.1000e+00
150	IHT0000023	-0.1127	0.2780	-0.0424	1.0259e-01	4.1000e+00
151	IHT0000024	-0.0789	0.3117	0.1008	6.6498e-02	4.1000e+00
152	IHT0000025	-0.2554	0.1352	-0.0874	8.8321e-02	4.1000e+00
153	IHT0000026	-0.0714	0.1240	-0.0479	6.4113e-02	4.1000e+00
154	IHT0000027	-0.2254	0.1653	-0.0339	6.2265e-02	4.1000e+00
155	IHT0000028	-0.2216	0.1690	-0.0497	1.2251e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0188	0.1765	0.0046	6.4113e-02	4.1000e+00
157	IHT0000030	-0.1653	0.0300	-0.0793	9.7935e-02	4.1000e+00
158	IHT0000031	-0.1352	0.2554	-0.0376	1.0625e-01	4.1000e+00
159	IHT0000032	-0.2066	0.1840	-0.0152	7.3716e-02	4.1000e+00
160	IHT0000033	-0.1953	0.1953	0.0039	6.2265e-02	4.1000e+00
161	IHT0000034	-0.0263	0.1690	0.0264	8.8585e-02	4.1000e+00
162	IHT0000035	-0.0375	0.1578	0.0132	8.6541e-02	4.1000e+00
163	IHT0000036	-0.1953	0.1953	0.0195	8.1347e-02	4.1000e+00

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Velocity 1 - 7.0456 (ft/sec) (+/- 3.7258 %)
 Velocity 2 - 7.5856 (ft/sec) (+/- 1.9647 %)
 Pressure drop - -2.9634 (psi)
 Tsat in - 241.9549 (deg F) Tsat out - 247.8922 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 4298.8921 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 7592.4111 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8498	75.2754	75.0456	1.5991e-01	1.9000e+00
1	TRF000002	75.0738	75.4969	75.2007	1.1310e-01	1.9000e+00
2	TRF000001	87.6744	88.5128	88.0224	1.8385e-01	1.9002e+00
3	TIN000001	87.4084	87.9340	87.6985	1.4643e-01	1.9002e+00
4	TRV000001	87.5020	88.1301	87.8831	1.4644e-01	1.9002e+00
5	TSR000001	87.2182	87.8457	87.5909	1.3244e-01	1.9002e+00
6	TAO020136	87.6827	88.6280	88.2583	1.9364e-01	1.9002e+00
7	TAO050136	87.7515	88.4837	88.1488	1.5955e-01	1.9002e+00
8	TAO070136	85.8832	86.6205	86.2666	1.8648e-01	1.9002e+00
9	TAO080136	87.7471	88.2707	87.9651	1.3339e-01	1.9002e+00
10	TAO090136	87.8269	88.4560	88.1707	1.5119e-01	1.9002e+00
11	TAO100136	87.6922	88.3204	87.9853	1.2883e-01	1.9002e+00
12	TAO105136	88.2899	88.9203	88.6430	1.8582e-01	1.9002e+00
13	TAO110136	85.6980	86.4303	86.1121	1.5238e-01	1.9002e+00
14	TAO115136	87.7467	88.6931	88.1589	2.4583e-01	1.9002e+00
15	TAO120136	87.5713	88.0944	87.8515	1.3087e-01	1.9002e+00
16	TAO125136	87.7641	88.2887	88.0870	1.5098e-01	1.9002e+00
17	TAO130136	87.4903	88.0121	87.7904	1.2737e-01	1.9002e+00
18	TAO120048	87.7126	88.2373	87.9938	1.4443e-01	1.9002e+00
19	TAO130048	87.3291	87.8532	87.6559	1.2456e-01	1.9002e+00
20	TAO120224	87.5338	88.2682	87.8612	1.5081e-01	1.9002e+00
21	TAO130224	87.5348	88.1605	87.8774	1.3199e-01	1.9002e+00
22	TAO120312	87.3551	88.0901	87.8044	1.2734e-01	1.9002e+00
23	TAO130312	87.3924	87.9161	87.6608	1.1833e-01	1.9002e+00
24	TRT020000	87.7623	88.7084	88.2459	1.6997e-01	1.9002e+00
25	TRT070000	87.6256	88.3631	88.1274	1.3724e-01	1.9002e+00
26	TRT100000	87.9810	88.7143	88.3455	2.1898e-01	1.9002e+00
27	TRT120000	87.8932	88.4178	88.1073	1.5558e-01	1.9002e+00
28	TRT125000	87.6470	88.4818	88.1025	1.7735e-01	1.9002e+00
29	TRT130000	87.5571	88.1851	87.8631	1.5094e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6332	2.4818e-01	1.9011e+00
31	TAF050136	87.8594	88.5927	88.2449	1.7372e-01	1.9002e+00
32	TAF070136	88.2754	89.0076	88.6519	1.8386e-01	1.9002e+00
33	TAF080136	87.6925	88.4238	88.1102	1.6871e-01	1.9002e+00
34	TAF090136	85.3112	86.4659	85.9326	2.7297e-01	1.9002e+00
35	TAF100136	87.6640	88.2942	87.9498	1.6311e-01	1.9002e+00
36	TAF105136	87.6834	88.6197	88.0705	1.9840e-01	1.9002e+00
37	TAF110136	87.5274	88.0518	87.7958	1.5289e-01	1.9002e+00
38	TAF115136	87.9587	88.6925	88.4114	1.8139e-01	1.9002e+00
39	TAF120136	87.7778	88.3020	88.0378	1.4698e-01	1.9002e+00
40	TAF125136	87.7515	88.7947	88.2729	2.8072e-01	1.9002e+00
41	TAF130136	87.7617	88.5994	88.0672	1.5819e-01	1.9002e+00
42	TAF120048	88.0284	88.8723	88.3748	2.1307e-01	1.9002e+00
43	TAF130048	87.6910	88.4252	88.0015	1.5421e-01	1.9002e+00
44	TAF120224	87.6600	88.4994	88.1005	1.9657e-01	1.9002e+00
45	TAF130224	87.1425	87.8811	87.5260	1.7403e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0756	1.8931e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2291	1.1134e-01	1.9010e+00
48	TAI130138	87.8701	88.9194	88.3360	3.0352e-01	1.9002e+00
49	TAI130226	87.2985	88.0309	87.6211	1.7159e-01	1.9002e+00
50	TAI130314	87.7031	88.9637	88.2788	3.0338e-01	1.9002e+00
51	TAI130042	87.3925	88.0228	87.6910	1.6342e-01	1.9002e+00
52	TRR130090	87.0677	88.0099	87.4990	2.0803e-01	1.9002e+00
53	TSI000001	81.5908	82.1180	81.8060	1.4432e-01	1.9001e+00
54	TSI000002	72.3039	73.0468	72.7410	2.2627e-01	1.9000e+00
55	TSO000001	68.3698	69.1182	68.7675	1.7826e-01	1.9000e+00
56	TSO000002	80.0997	80.8386	80.5514	1.7060e-01	1.9001e+00
57	TAP020136	87.0816	87.7147	87.4441	1.6646e-01	1.9002e+00
58	TAP120312	87.3698	88.4184	87.8396	2.2226e-01	1.9002e+00
59	TAP130312	87.0523	87.6807	87.3585	1.6246e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4880	1.1714e-03	0.0000e+00
61	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5166	1.9730e-03	0.0000e+00
63	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
64	EMPTY	0.3320	0.3369	0.3339	2.3941e-03	0.0000e+00
65	EMPTY	0.3516	0.3564	0.3554	2.0432e-03	0.0000e+00
66	EMPTY	0.3711	0.3711	0.3711	0.0000e+00	0.0000e+00
67	EMPTY	0.3857	0.3906	0.3901	1.4797e-03	0.0000e+00
68	EMPTY	0.4004	0.4053	0.4037	2.3008e-03	0.0000e+00
69	EMPTY	0.4199	0.4248	0.4201	9.6655e-04	0.0000e+00
70	EMPTY	0.4346	0.4395	0.4378	2.3365e-03	0.0000e+00
71	EMPTY	0.4590	0.4639	0.4604	2.2603e-03	0.0000e+00
72	EMPTY	0.4736	0.4785	0.4743	1.7115e-03	0.0000e+00
73	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
74	EMPTY	0.5078	0.5127	0.5109	2.3675e-03	0.0000e+00
75	EMPTY	0.5273	0.5322	0.5275	9.6655e-04	0.0000e+00
76	EMPTY	0.5420	0.5469	0.5421	6.9053e-04	0.0000e+00
77	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
78	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
79	EMPTY	0.6055	0.6104	0.6102	9.6655e-04	0.0000e+00
80	PAN020136	-11.1226	-9.5204	-10.3963	3.9395e-01	8.7039e-01
81	PAN050136	-21.6362	-19.5000	-20.4308	5.6191e-01	1.6808e+00
82	PAN070136	-13.6695	-12.2199	-12.9615	3.3947e-01	8.7060e-01
83	PAN080136	-7.2918	-6.7578	-7.0767	1.4016e-01	8.7018e-01
84	PAN090136	-6.9030	-6.4452	-6.6802	9.9702e-02	8.7016e-01
85	PAN100136	-6.4922	-6.0344	-6.2480	9.2482e-02	8.7014e-01
86	PAN105136	-3.4793	-3.1741	-3.3099	6.9430e-02	8.7004e-01
87	PAN110136	-3.3047	-2.9996	-3.1766	6.6189e-02	8.7004e-01
88	PAN115136	-3.0627	-2.7576	-2.9086	7.1454e-02	8.7003e-01
89	PAN120136	-4.1924	-3.8872	-3.9925	7.8428e-02	8.7006e-01
90	PAN125136	-3.7024	-3.3972	-3.5833	5.8001e-02	8.7005e-01
91	PAN130136	-3.3091	-3.0039	-3.1107	8.5820e-02	8.7003e-01
92	PAN120048	-6.5362	-6.0784	-6.3821	1.1060e-01	8.7015e-01
93	PAN130048	-6.5509	-6.1694	-6.3739	1.0390e-01	8.7015e-01
94	PAN120224	-6.6066	-6.1489	-6.4052	1.0312e-01	8.7015e-01
95	PAN130224	-6.4144	-6.0329	-6.2099	1.1268e-01	8.7014e-01
96	PAN120312	-7.1597	-6.7020	-6.9018	1.0667e-01	8.7017e-01
97	PAN130312	-6.4906	-6.0329	-6.2236	9.6567e-02	8.7014e-01
98	PAB000136	25.6959	26.1079	25.8790	9.6996e-02	5.8360e-01
99	PAB100136	28.0147	28.2435	28.1007	5.0350e-02	5.8424e-01
100	PAB125136	28.6141	28.7514	28.7038	4.2340e-02	5.8442e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.3828	26.1152	25.6806	1.7292e-01	7.5274e-01
102	PRV000001	26.5800	26.7021	26.6239	5.9189e-02	7.5295e-01
103	PSR000001	28.8547	28.9768	28.8816	5.1081e-02	7.5347e-01
104	PFM000001	7.3067	7.8560	7.5081	1.3592e-01	5.0035e-01
105	PAN000136	-85.7508	-77.5111	-82.0429	1.9272e+00	4.9243e+00
106	PFM000002	8.3850	9.1401	8.7196	1.5170e-01	2.0118e-01
107	EMPTY	0.0049	0.0049	0.0015	3.1583e-03	0.0000e+00
108	EMPTY	9.7656	-9.0723	-9.3663	1.4680e-01	0.0000e+00
109	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.0451	0.1502	0.0135	9.0412e-02	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0021	9.0756e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0214	9.9512e-02	8.1000e-01
115	VPW000004	-0.3681	0.2178	-0.0673	1.2608e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0048	1.1679e-01	8.1000e-01
117	VPW000006	-0.2216	0.3643	-0.0146	1.2104e-01	8.1000e-01
118	IPW000001	-2.1775	1.7272	-0.2642	1.1493e+00	8.1000e+00
119	IPW000002	-2.9267	0.9758	-0.5462	1.0644e+00	8.1000e+00
120	IPW000003	-2.5499	1.3501	-0.7559	1.1713e+00	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.1202	2.7902e-01	2.0000e+00
122	IPW000005	-0.0751	0.4131	0.1397	2.4481e-01	2.0000e+00
123	IPW000006	-1.1926	0.2723	-0.3039	2.5515e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0198	3.1828e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0135	2.5266e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	3.0003e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0157	3.1644e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0368	9.0412e-02	4.1000e+00
129	IHT000002	-0.0263	0.1690	0.0167	8.1729e-02	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0305	9.1779e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0182	1.0320e-01	4.1000e+00
132	IHT000005	-0.0601	0.3305	-0.0015	9.8648e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0996	1.0106e-01	4.1000e+00
134	IHT000007	-0.0638	0.3268	0.0455	1.1272e-01	4.1000e+00
135	IHT000008	-0.0488	0.3418	0.0254	1.0358e-01	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0365	8.8321e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0332	9.5357e-02	4.1000e+00
138	IHT000011	-0.0150	0.1803	0.0084	6.4113e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0251	9.9512e-02	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0789	7.8918e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0795	6.6498e-02	4.1000e+00
142	IHT000015	-0.1953	0.1953	0.0351	9.4125e-02	4.1000e+00
143	IHT000016	-0.2291	0.1615	-0.0104	7.5283e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0565	1.6502e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0200	8.2393e-02	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1187	9.0412e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0289	9.1354e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0553	6.8459e-02	4.1000e+00
149	IHT000022	-0.2103	0.1803	-0.1244	1.0559e-01	4.1000e+00
150	IHT000023	-0.1127	0.2780	-0.0619	9.5112e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0813	9.4125e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.1109	1.0297e-01	4.1000e+00
153	IHT000026	-0.0714	0.3193	-0.0440	7.9017e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0418	7.2866e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0419	1.0320e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0164	7.5798e-02	4.1000e+00
157	IHT000030	-0.1653	0.0300	-0.0754	9.8332e-02	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0376	1.0625e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0113	7.8918e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0117	7.2866e-02	4.1000e+00
161	IHT000034	-0.0263	0.1690	0.0518	9.6655e-02	4.1000e+00
162	IHT000035	-0.2329	0.1578	0.0328	1.0259e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0195	9.0412e-02	4.1000e+00

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Velocity 1 - 25.1686 (ft/sec) (+/- 1.6912 %)
 Velocity 2 - 13.6791 (ft/sec) (+/- 1.7009 %)
 Pressure drop - 18.0952 (psi)
 T_{sat} in - 280.3745 (deg F) T_{sat} out - 254.5661 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft²) (+/- 12024.8965 %)
 Phi outer - 0.0000 (kBtu/hr-ft²) (+/- 4016.6990 %)
 D inner - 0.1962 (ft) D outer - 0.2413 (ft) D hyd - 0.0389 (ft)
 L inner - 12.8550 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft²)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF000001	74.8498	75.4880	75.1222	1.5521e-01	1.9000e+00
1	TRF000002	75.0738	75.4969	75.2896	1.4490e-01	1.9000e+00
2	TFM000001	86.9413	87.8856	87.4594	2.3805e-01	1.9002e+00
3	TIN000001	86.7776	87.5136	87.1749	1.6893e-01	1.9002e+00
4	TRV000001	87.1891	87.9221	87.4555	1.5718e-01	1.9002e+00
5	TSR000001	87.4270	88.0556	87.7980	1.5437e-01	1.9002e+00
6	TAO020136	87.2623	88.2079	87.8192	1.8288e-01	1.9002e+00
7	TAO050136	87.3344	87.9630	87.7012	1.8947e-01	1.9002e+00
8	TAO070136	85.6717	86.6200	86.0197	1.8817e-01	1.9002e+00
9	TAO080136	87.2263	87.8555	87.5092	1.7971e-01	1.9002e+00
10	TAO090136	87.1987	88.0375	87.7461	1.9560e-01	1.9002e+00
11	TAO100136	87.1678	87.7975	87.5478	1.5422e-01	1.9002e+00
12	TAO105136	87.6602	88.6050	88.1704	2.1842e-01	1.9002e+00
13	TAO110136	85.5946	86.2241	85.8900	1.8160e-01	1.9002e+00
14	TAO115136	87.2198	88.2719	87.8198	2.3686e-01	1.9002e+00
15	TAO120136	87.0522	87.7834	87.4428	1.6208e-01	1.9002e+00
16	TAO125136	87.4500	88.0800	87.7251	1.7588e-01	1.9002e+00
17	TAO130136	87.0773	87.7039	87.4098	1.5155e-01	1.9002e+00
18	TAO120048	87.1888	87.9232	87.5813	1.5404e-01	1.9002e+00
19	TAO130048	86.9113	87.6457	87.2867	1.7727e-01	1.9002e+00
20	TAO120224	87.1143	87.9538	87.4441	1.8484e-01	1.9002e+00
21	TAO130224	87.1189	87.8523	87.4978	1.5373e-01	1.9002e+00
22	TAO120312	86.9352	87.7752	87.4246	1.8197e-01	1.9002e+00
23	TAO130312	86.9745	87.6039	87.3159	1.3548e-01	1.9002e+00
24	TRT020000	87.3414	88.2874	87.7934	1.9724e-01	1.9002e+00
25	TRT070000	87.3079	88.0456	87.7025	1.7127e-01	1.9002e+00
26	TRT100000	87.6673	88.4008	87.9130	1.7658e-01	1.9002e+00
27	TRT120000	87.3695	87.9996	87.6865	1.4760e-01	1.9002e+00
28	TRT125000	87.2303	88.1706	87.7761	2.1460e-01	1.9002e+00
29	TRT130000	87.1389	87.7681	87.5186	1.6796e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6745	2.1875e-01	1.9011e+00
31	TAF050136	87.4412	88.1756	87.7999	1.6134e-01	1.9002e+00
32	TAF070136	87.7542	88.5905	88.2332	1.9141e-01	1.9002e+00
33	TAF080136	87.2782	88.1125	87.6927	1.6703e-01	1.9002e+00
34	TAF090136	85.1013	86.2557	85.7210	2.7832e-01	1.9002e+00
35	TAF100136	87.2435	87.8740	87.5484	1.7537e-01	1.9002e+00
36	TAF105136	87.0592	88.1007	87.6491	2.3425e-01	1.9002e+00
37	TAF110136	87.0047	87.7384	87.3675	1.7622e-01	1.9002e+00
38	TAF115136	87.5399	88.3786	88.0034	2.0966e-01	1.9002e+00
39	TAF120136	87.3599	87.8852	87.6099	1.3561e-01	1.9002e+00
40	TAF125136	87.2320	88.2750	87.7967	2.6978e-01	1.9002e+00
41	TAF130136	87.2376	88.0764	87.6509	1.8515e-01	1.9002e+00
42	TAF120048	87.5011	88.5547	88.0596	2.4116e-01	1.9002e+00
43	TAF130048	87.1671	88.1110	87.5932	2.1444e-01	1.9002e+00
44	TAF120224	87.3450	88.0800	87.7166	1.8871e-01	1.9002e+00
45	TAF130224	86.7201	87.5626	87.1646	1.9661e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0894	2.1788e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1740	7.5380e-02	1.9010e+00
48	TAI130138	87.2406	88.3953	87.8893	2.9796e-01	1.9002e+00
49	TAI130226	86.8803	87.6139	87.1971	1.9217e-01	1.9002e+00
50	TAI130314	87.3873	88.4381	87.8730	2.5564e-01	1.9002e+00
51	TAI130042	86.7626	87.6031	87.2607	1.8596e-01	1.9002e+00
52	TRR130090	86.5434	87.6973	87.1245	2.4624e-01	1.9002e+00
53	TSI000001	81.5908	82.2232	81.8504	1.4625e-01	1.9001e+00
54	TSI000002	72.0920	73.1527	72.6417	2.6726e-01	1.9000e+00
55	TSO000001	68.3698	69.1182	68.7522	1.7018e-01	1.9000e+00
56	TSO000002	79.9942	80.8390	80.3765	2.1409e-01	1.9001e+00
57	TAF020136	86.6587	87.3964	87.0153	1.7666e-01	1.9002e+00
58	TAF120312	87.0553	87.9994	87.4312	2.6121e-01	1.9002e+00
59	TAF130312	86.6337	87.3686	86.9299	1.6100e-01	1.9002e+00
60	EMPTY	0.4736	0.4785	0.4777	1.8082e-03	0.0000e+00
61	EMPTY	0.4883	0.4980	0.4925	1.9754e-03	0.0000e+00
62	EMPTY	0.5029	0.5078	0.5053	1.6028e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5220	1.4797e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3395	2.4642e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3607	1.6028e-03	0.0000e+00
66	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
67	EMPTY	0.3906	0.3955	0.3954	6.9053e-04	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4090	2.1065e-03	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4255	1.7115e-03	0.0000e+00
70	EMPTY	0.4395	0.4443	0.4439	1.3381e-03	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4655	2.3365e-03	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4798	2.1635e-03	0.0000e+00
73	EMPTY	0.4980	0.5029	0.4991	2.0432e-03	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5154	2.4484e-03	0.0000e+00
75	EMPTY	0.5322	0.5371	0.5323	6.9053e-04	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5470	6.9053e-04	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5667	1.1714e-03	0.0000e+00
78	EMPTY	0.5859	0.5908	0.5906	9.6655e-04	0.0000e+00
79	EMPTY	0.6104	0.6152	0.6106	1.1714e-03	0.0000e+00
80	PAN020136	63.1877	65.5528	64.4542	6.2838e-01	8.8480e-01
81	PAN050136	113.7092	116.6084	115.4517	5.8984e-01	1.7046e+00
82	PAN070136	79.6380	81.9268	80.9045	5.1005e-01	8.9320e-01
83	PAN080136	39.8578	41.0022	40.3766	2.7616e-01	8.7584e-01
84	PAN090136	36.0505	36.8898	36.4442	1.8131e-01	8.7476e-01
85	PAN100136	40.9627	41.8019	41.4845	1.8838e-01	8.7616e-01
86	PAN105136	19.5615	20.0955	19.8346	1.2531e-01	8.7141e-01
87	PAN110136	20.5753	21.0330	20.7370	1.1076e-01	8.7154e-01
88	PAN115136	19.4440	19.9780	19.7293	1.2313e-01	8.7140e-01
89	PAN120136	17.1700	17.4751	17.3378	8.9877e-02	8.7108e-01
90	PAN125136	19.6436	20.2539	19.9411	1.3011e-01	8.7143e-01
91	PAN130136	19.9605	20.4183	20.1650	9.9224e-02	8.7146e-01
92	PAN120048	34.2811	35.1203	34.7480	1.7139e-01	8.7433e-01
93	PAN130048	41.9721	42.7350	42.3795	1.9776e-01	8.7643e-01
94	PAN120224	39.7038	40.3904	40.1325	1.7017e-01	8.7577e-01
95	PAN130224	44.7025	45.4655	45.1023	1.8596e-01	8.7728e-01
96	PAN120312	36.4804	37.1671	36.8756	1.5543e-01	8.7487e-01
97	PAN130312	41.2694	42.1086	41.7501	1.7926e-01	8.7624e-01
98	PAB000136	49.2707	49.8658	49.5683	1.3505e-01	5.9309e-01
99	PAB100136	35.6135	35.8424	35.7472	5.1359e-02	5.8684e-01
100	PAB125136	32.0931	32.2762	32.1975	4.6278e-02	5.8556e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIW000001	48.8203	49.7968	49.3501	2.2004e-01	7.6008e-01
102	PRV000001	26.4579	26.5800	26.5190	6.1655e-02	7.5292e-01
103	PSR000001	29.0989	29.2209	29.1013	1.7263e-02	7.5352e-01
104	PFM000001	96.9368	98.5847	97.6765	3.9186e-01	5.5644e-01
105	PAN000136	494.2357	505.6798	500.9740	2.2312e+00	5.0769e+00
106	PFM000002	28.6718	28.6718	28.6718	1.5414e-05	2.1246e-01
107	EMPTY	0.0049	0.0098	0.0096	9.6655e-04	0.0000e+00
108	EMPTY	-9.9463	-8.9160	-9.3738	2.3654e-01	0.0000e+00
109	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0046	1.1714e-03	0.0000e+00
112	VPW000001	-0.2404	0.1502	0.0213	1.0145e-01	8.1000e-01
113	VPW000002	-0.2404	0.1502	-0.0138	9.9512e-02	8.1000e-01
114	VPW000003	-0.2479	0.1427	-0.0057	1.0106e-01	8.1000e-01
115	VPW000004	-0.3681	0.0225	-0.1025	1.0259e-01	8.1000e-01
116	VPW000005	-0.1202	0.2704	0.0321	9.8963e-02	8.1000e-01
117	VPW000006	-0.2216	0.1690	-0.0263	1.1838e-01	8.1000e-01
118	IPW000001	-2.1775	-0.2252	-1.5528	9.1997e-01	8.1000e+00
119	IPW000002	-0.9755	2.9271	0.7807	1.0615e+00	8.1000e+00
120	IPW000003	-2.5499	3.3001	0.6871	1.2213e+00	8.1000e+00
121	IPW000004	-0.4132	0.5634	-0.0714	2.6562e-01	2.0000e+00
122	IPW000005	-0.5633	-0.0751	-0.4852	1.8081e-01	2.0000e+00
123	IPW000006	-0.2160	0.7606	0.0477	2.6408e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0217	3.8409e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0151	2.6562e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0146	-0.0189	3.2178e-03	0.0000e+00
127	EMPTY	0.0244	-0.0098	-0.0148	3.4116e-03	0.0000e+00
128	IHT000001	-0.1390	0.2516	0.0329	8.4997e-02	4.1000e+00
129	IHT000002	-0.2216	0.1690	0.0362	1.0763e-01	4.1000e+00
130	IHT000003	-0.1765	0.2141	0.0344	8.6810e-02	4.1000e+00
131	IHT000004	-0.1615	0.2291	0.0182	8.6810e-02	4.1000e+00
132	IHT000005	-0.0601	0.1352	0.0298	9.8332e-02	4.1000e+00
133	IHT000006	-0.3418	0.0488	-0.0840	1.1464e-01	4.1000e+00
134	IHT000007	-0.0638	0.1315	0.0612	9.4702e-02	4.1000e+00
135	IHT000008	-0.0488	0.1465	0.0371	9.7935e-02	4.1000e+00
136	IHT000009	-0.1315	0.2591	0.0443	7.1136e-02	4.1000e+00
137	IHT000010	-0.1465	0.2441	0.0527	9.2456e-02	4.1000e+00
138	IHT000011	-0.2104	0.1803	0.0084	7.5283e-02	4.1000e+00
139	IHT000012	-0.2517	0.1390	-0.0095	1.0106e-01	4.1000e+00
140	IHT000013	-0.2742	0.1164	-0.0750	9.2456e-02	4.1000e+00
141	IHT000014	-0.1315	0.2591	0.0834	9.0412e-02	4.1000e+00
142	IHT000015	0.0000	0.1953	0.0273	6.8459e-02	4.1000e+00
143	IHT000016	-0.0338	0.1615	-0.0104	6.4113e-02	4.1000e+00
144	IHT000017	-0.4432	0.3380	-0.0604	1.5764e-01	4.1000e+00
145	IHT000018	-0.1841	0.2066	-0.0395	9.5112e-02	4.1000e+00
146	IHT000019	-0.2554	-0.0601	-0.1265	9.3461e-02	4.1000e+00
147	IHT000020	-0.2554	0.1352	-0.0289	8.2393e-02	4.1000e+00
148	IHT000021	-0.0826	0.1127	-0.0397	8.1729e-02	4.1000e+00
149	IHT000022	-0.4056	-0.0150	-0.1088	1.0617e-01	4.1000e+00
150	IHT000023	-0.1127	0.0826	-0.0385	9.5765e-02	4.1000e+00
151	IHT000024	-0.0789	0.3117	0.0969	8.1347e-02	4.1000e+00
152	IHT000025	-0.2554	0.1352	-0.0796	8.1347e-02	4.1000e+00
153	IHT000026	-0.0714	0.1240	-0.0284	8.1729e-02	4.1000e+00
154	IHT000027	-0.2254	0.1653	-0.0300	6.8345e-02	4.1000e+00
155	IHT000028	-0.2216	0.1690	-0.0380	9.9902e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0188	0.1765	0.0164	7.5798e-02	4.1000e+00
157	IHT000030	-0.1653	0.2253	-0.0715	1.0617e-01	4.1000e+00
158	IHT000031	-0.1352	0.2554	-0.0415	1.0617e-01	4.1000e+00
159	IHT000032	-0.2066	0.1840	-0.0035	6.7888e-02	4.1000e+00
160	IHT000033	-0.1953	0.1953	0.0117	8.2864e-02	4.1000e+00
161	IHT000034	-0.0263	0.3643	0.0675	1.0617e-01	4.1000e+00
162	IHT000035	-0.2329	0.3531	0.0328	1.0992e-01	4.1000e+00
163	IHT000036	-0.1953	0.1953	0.0273	7.9017e-02	4.1000e+00

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Velocity 1 = 25.9570 (ft/sec) (+/- 1.6889 %)
 Velocity 2 = 13.4269 (ft/sec) (+/- 1.7032 %)
 Pressure drop = 20.6544 (psi)
 Tsat in = 279.2527 (deg F) Tsat out = 248.0816 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 10047.0586 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 6765.8530 %)
 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	73.8393	74.4796	74.1850	1.9230e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	73.9684	1.3459e-01	1.9000e+00
2	TFH0000001	87.7874	88.5229	88.2018	2.0054e-01	1.9002e+00
3	TIN0000001	86.9990	87.6312	87.3551	1.5023e-01	1.9002e+00
4	TRV0000001	87.5752	88.3092	87.9583	2.0375e-01	1.9002e+00
5	TSR0000001	88.0985	88.7288	88.3534	1.6027e-01	1.9002e+00
6	TAO020136	80.2648	81.2177	80.6358	2.0434e-01	1.9001e+00
7	TAO050136	87.4371	88.2760	87.8301	1.7708e-01	1.9002e+00
8	TAO070136	87.4575	88.1953	87.9022	1.9550e-01	1.9002e+00
9	TAO080136	87.2338	88.0731	87.6596	1.7407e-01	1.9002e+00
10	TAO090136	88.0158	88.7507	88.4208	1.7613e-01	1.9002e+00
11	TAO100136	87.4741	88.1054	87.7249	1.6160e-01	1.9002e+00
12	TAO105136	88.2964	89.3483	88.7825	2.6020e-01	1.9002e+00
13	TAO110136	87.7400	88.4745	88.1407	1.9702e-01	1.9002e+00
14	TAO115136	87.9081	88.8549	88.3269	2.1830e-01	1.9002e+00
15	TAO120136	87.6301	88.1567	87.8725	1.3660e-01	1.9002e+00
16	TAO125136	88.2663	88.8971	88.5798	1.6095e-01	1.9002e+00
17	TAO130136	87.4815	88.2150	87.7739	1.6146e-01	1.9002e+00
18	TAO120048	71.7958	72.5416	72.1476	1.7390e-01	1.9000e+00
19	TAO130048	87.3540	87.9849	87.6509	1.3560e-01	1.9002e+00
20	TAO120224	87.5697	88.3054	87.9835	1.7447e-01	1.9002e+00
21	TAO130224	87.5219	88.3593	88.0057	1.8668e-01	1.9002e+00
22	TAO120312	87.5520	88.2892	88.0132	1.7264e-01	1.9002e+00
23	TAO130312	87.5278	88.1588	87.8080	1.4819e-01	1.9002e+00
24	TRT020000	87.9318	89.0897	88.3930	2.2503e-01	1.9002e+00
25	TRT070000	87.9196	88.4474	88.1878	1.3840e-01	1.9002e+00
26	TRT100000	88.0795	89.0212	88.4716	2.0943e-01	1.9002e+00
27	TRT120000	87.8859	88.5164	88.2281	1.6142e-01	1.9002e+00
28	TRT125000	87.7649	88.6034	88.2076	1.9654e-01	1.9002e+00
29	TRT130000	87.6877	88.2142	87.9930	1.4607e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6102	2.6435e-01	1.9011e+00
31	TAF050136	87.9224	88.7618	88.3738	2.0892e-01	1.9002e+00
32	TAF070136	88.3312	89.1696	88.7321	2.1637e-01	1.9002e+00
33	TAF080136	87.8832	88.7204	88.2756	1.7677e-01	1.9002e+00
34	TAF090136	72.6689	73.5190	73.0661	2.5007e-01	1.9000e+00
35	TAF100136	87.7398	88.5821	88.1757	1.8418e-01	1.9002e+00
36	TAF105136	87.5334	88.6826	88.0707	2.4338e-01	1.9002e+00
37	TAF110136	87.6706	88.3011	87.9674	1.6789e-01	1.9002e+00
38	TAF115136	88.0605	88.8992	88.5285	2.0577e-01	1.9002e+00
39	TAF120136	88.1001	88.6265	88.3676	1.2801e-01	1.9002e+00
40	TAF125136	87.9722	89.0179	88.4428	2.6100e-01	1.9002e+00
41	TAF130136	87.8628	88.9114	88.2099	1.8389e-01	1.9002e+00
42	TAF120048	88.1365	89.1913	88.6025	2.3255e-01	1.9002e+00
43	TAF130048	87.9383	88.5693	88.2475	1.7421e-01	1.9002e+00
44	TAF120224	87.9288	88.7684	88.2632	1.9744e-01	1.9002e+00
45	TAF130224	87.3532	88.1959	87.7558	1.9359e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1124	1.7534e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1970	1.0671e-01	1.9010e+00
48	TAI130048	87.8282	89.2979	88.5274	3.2071e-01	1.9002e+00
49	TAI130136	87.4409	88.0717	87.7834	1.9390e-01	1.9002e+00
50	TAI130224	88.1777	89.4402	88.8027	2.9546e-01	1.9002e+00
51	TAI130312	87.6492	88.4910	88.0513	2.0454e-01	1.9002e+00
52	TRR130000	86.4004	87.5543	86.8480	2.5231e-01	1.9002e+00
53	TSI0000001	81.3405	82.1849	81.7185	1.7721e-01	1.9001e+00
54	TSI0000002	74.5224	75.7941	75.2115	3.0354e-01	1.9000e+00
55	TSO0000001	72.4153	73.1616	72.7329	1.7441e-01	1.9000e+00
56	TSO0000002	73.9287	74.6734	74.2247	1.9245e-01	1.9000e+00
57	TAP020136	87.2137	88.0585	87.5583	1.9984e-01	1.9002e+00
58	TAP120312	87.4843	88.5353	87.8819	2.9571e-01	1.9002e+00
59	TAP130312	87.1881	87.8194	87.5729	1.4196e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5137	1.9730e-03	0.0000e+00
61	EMPTY	0.5273	0.5322	0.5278	1.4797e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5418	9.6655e-04	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5563	1.1714e-03	0.0000e+00
64	EMPTY	0.3564	0.3613	0.3609	1.3381e-03	0.0000e+00
65	EMPTY	0.3809	0.3857	0.3812	1.3381e-03	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3978	2.4583e-03	0.0000e+00
67	EMPTY	0.4102	0.4199	0.4159	2.1364e-03	0.0000e+00
68	EMPTY	0.4248	0.4346	0.4297	9.8648e-04	0.0000e+00
69	EMPTY	0.4492	0.4492	0.4492	0.0000e+00	0.0000e+00
70	EMPTY	0.4639	0.4688	0.4643	1.3381e-03	0.0000e+00
71	EMPTY	0.4883	0.4932	0.4884	6.9053e-04	0.0000e+00
72	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5226	6.9053e-04	0.0000e+00
74	EMPTY	0.5371	0.5420	0.5378	1.7115e-03	0.0000e+00
75	EMPTY	0.5566	0.5566	0.5566	0.0000e+00	0.0000e+00
76	EMPTY	0.5713	0.5762	0.5714	6.9053e-04	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5909	6.9053e-04	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6150	9.6655e-04	0.0000e+00
79	EMPTY	0.6299	0.6396	0.6349	1.2041e-03	0.0000e+00
80	PAN020136	72.2740	75.7835	73.7709	7.7940e-01	8.8933e-01
81	PAN050136	133.1056	134.4789	133.6458	3.6762e-01	1.7129e+00
82	PAN070136	90.8723	91.8641	91.3132	2.4141e-01	8.9945e-01
83	PAN080136	45.2014	46.1932	45.5736	1.7618e-01	8.7743e-01
84	PAN090136	47.5885	48.2752	47.9273	1.8183e-01	8.7821e-01
85	PAN100136	34.6068	35.1409	34.8647	1.3863e-01	8.7436e-01
86	PAN105136	21.4908	22.1774	21.7623	1.3800e-01	8.7170e-01
87	PAN110136	23.0724	23.8354	23.3471	1.8172e-01	8.7196e-01
88	PAN115136	23.5976	24.1317	23.8433	1.2262e-01	8.7204e-01
89	PAN120136	24.0364	24.4942	24.2042	1.0107e-01	8.7210e-01
90	PAN125136	26.2079	26.5893	26.4062	8.5820e-02	8.7250e-01
91	PAN130136	21.6286	22.0101	21.7675	8.5390e-02	8.7170e-01
92	PAN120048	41.0756	41.7623	41.3625	1.7612e-01	8.7612e-01
93	PAN130048	49.2127	50.2808	49.7086	2.2979e-01	8.7883e-01
94	PAN120224	39.2593	39.9460	39.5263	1.3459e-01	8.7559e-01
95	PAN130224	45.4699	46.2329	45.8560	1.5674e-01	8.7752e-01
96	PAN120312	44.8596	45.5462	45.2166	1.5524e-01	8.7731e-01
97	PAN130312	48.9002	49.5869	49.3428	1.5567e-01	8.7870e-01
98	PAB0000136	48.4785	48.9363	48.6781	9.9073e-02	5.9263e-01
99	PAB100136	33.1443	33.3274	33.2130	4.2632e-02	5.8591e-01
100	PAB125136	28.7313	28.8687	28.7982	3.7235e-02	5.8445e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	48.1141	48.9686	48.4486	1.8258e-01	7.5972e-01
102	PRV000001	24.2235	24.4677	24.3969	6.5667e-02	7.5248e-01
103	PSR000001	25.3763	25.4983	25.4959	1.7263e-02	7.5270e-01
104	PFH000001	103.0584	105.0726	103.9025	4.9882e-01	5.6345e-01
105	PAN000136	567.9266	575.2508	571.8267	1.6420e+00	5.1235e+00
106	PFH000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0098	0.0098	0.0098	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	1.1133	-3.4211	3.4061e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0070	2.4484e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
112	VPW000001	-0.2554	0.1352	-0.0132	1.0106e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0210	9.8648e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	-0.0083	1.1161e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0057	1.0849e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0132	1.1027e-01	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0251	1.1578e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.5422	1.1357e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	-0.1666	1.1178e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4140	1.0782e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.0879	2.8659e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0184	3.1947e-01	2.0000e+00
123	IPW000006	-0.5540	0.4226	0.0222	2.7356e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0200	3.4527e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.6908e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0167	2.9742e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0153	3.2733e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0060	8.8233e-02	4.1000e+00
129	IHT000002	-0.4019	0.1840	-0.0152	7.3716e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0002	7.3716e-02	4.1000e+00
131	IHT000004	-0.2854	0.1052	-0.0354	1.0470e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0227	1.1327e-01	4.1000e+00
133	IHT000006	-0.1239	0.0714	0.0128	9.0412e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0045	7.1136e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0173	9.0412e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0236	7.9017e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	-0.0176	7.2330e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	-0.0065	6.8459e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	-0.0200	9.3461e-02	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0171	1.0470e-01	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0221	1.0559e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0036	6.2265e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0065	9.4702e-02	4.1000e+00
144	IHT000017	-0.2629	0.3230	0.0183	1.8990e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	-0.0031	1.0507e-01	4.1000e+00
146	IHT000019	-0.1765	0.0188	-0.1297	8.4262e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0198	1.0259e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0143	1.0440e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0119	9.7377e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0121	7.5283e-02	4.1000e+00
151	IHT000024	-0.1578	0.4282	0.0141	1.0907e-01	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0137	7.5798e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	-0.0084	7.5283e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0122	7.5283e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0150	1.0440e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0101	8.2393e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0388	9.9512e-02	4.1000e+00
158	IHT000031	-0.2442	0.1465	-0.0020	1.1545e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0057	9.5112e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0054	9.0756e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	-0.0086	8.8321e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0011	9.6735e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0233	9.6655e-02	4.1000e+00

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Velocity 1 = 24.0128 (ft/sec) (+/- 1.6952 %)
 Velocity 2 = 13.4262 (ft/sec) (+/- 1.7032 %)
 Pressure drop = 17.1511 (psi)
 Tsat in = 274.0817 (deg F) Tsat out = 246.8510 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5380.4985 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 10507.3291 %)
 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	73.8393	74.4796	74.2106	1.7144e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9303	1.4745e-01	1.9000e+00
2	TRF000001	87.1589	88.1041	87.5996	2.1855e-01	1.9002e+00
3	TIN000001	86.2626	86.9999	86.7427	1.6775e-01	1.9002e+00
4	TRV000001	86.8427	87.7862	87.3667	2.1496e-01	1.9002e+00
5	TSR000001	87.4712	88.2069	87.8288	1.7223e-01	1.9002e+00
6	TRO020136	80.1592	81.2182	80.6676	2.5579e-01	1.9001e+00
7	TRO050136	86.9156	87.5459	87.2429	1.6521e-01	1.9002e+00
8	TRO070136	86.9293	87.7733	87.3434	2.0187e-01	1.9002e+00
9	TRO080136	86.7110	87.3418	87.0728	1.6040e-01	1.9002e+00
10	TRO090136	87.3870	88.2272	87.8321	2.1483e-01	1.9002e+00
11	TRO100136	86.8447	87.5813	87.1775	1.7944e-01	1.9002e+00
12	TRO105136	87.6654	88.7178	88.2085	2.3410e-01	1.9002e+00
13	TRO110136	87.2211	88.0585	87.5601	1.8123e-01	1.9002e+00
14	TRO115136	87.1721	88.2243	87.6940	2.3758e-01	1.9002e+00
15	TRO120136	87.0000	87.6312	87.2656	1.4147e-01	1.9002e+00
16	TRO125136	87.7426	88.2687	87.9408	1.4958e-01	1.9002e+00
17	TRO130136	86.7590	87.4893	87.1468	1.7175e-01	1.9002e+00
18	TRO120048	72.5398	73.0729	72.7789	1.4839e-01	1.9000e+00
19	TRO130048	86.7260	87.4622	87.0838	1.5600e-01	1.9002e+00
20	TRO120224	87.0443	87.7809	87.3519	1.5880e-01	1.9002e+00
21	TRO130224	87.0033	87.7355	87.3589	1.6522e-01	1.9002e+00
22	TRO120312	87.0269	87.8681	87.3760	1.8223e-01	1.9002e+00
23	TRO130312	87.0044	87.5306	87.1943	1.4569e-01	1.9002e+00
24	TRO200000	87.0890	88.2479	87.7843	2.1172e-01	1.9002e+00
25	TRO200000	87.2859	87.9193	87.5982	1.6359e-01	1.9002e+00
26	TRO200000	87.3471	88.5004	87.8334	2.2506e-01	1.9002e+00
27	TRO200000	87.2567	88.0972	87.6307	1.7144e-01	1.9002e+00
28	TRO200000	87.2439	87.9779	87.6173	2.1286e-01	1.9002e+00
29	TRO200000	87.0590	87.6903	87.4085	1.4937e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.5781	2.1575e-01	1.9011e+00
31	TAP050136	87.5042	88.1348	87.7948	1.7297e-01	1.9002e+00
32	TAP070136	87.7051	88.5434	88.1084	2.1608e-01	1.9002e+00
33	TAP080136	87.3633	87.9932	87.6655	1.7283e-01	1.9002e+00
34	TAP090136	72.9870	74.1551	73.5646	3.0182e-01	1.9000e+00
35	TAP100136	87.2138	87.9509	87.5927	1.9262e-01	1.9002e+00
36	TAP105136	86.8033	87.8500	87.4648	2.3550e-01	1.9002e+00
37	TAP110136	87.0434	87.8832	87.3759	1.8168e-01	1.9002e+00
38	TAP115136	87.5368	88.3770	87.9322	1.9602e-01	1.9002e+00
39	TAP120136	87.3691	87.9998	87.7262	1.4571e-01	1.9002e+00
40	TAP125136	87.3481	88.1856	87.8204	2.3788e-01	1.9002e+00
41	TAP130136	87.2364	88.1800	87.6050	1.7903e-01	1.9002e+00
42	TAP120048	87.5026	88.4525	87.9837	2.1231e-01	1.9002e+00
43	TAP130048	87.2045	88.0448	87.5959	1.7886e-01	1.9002e+00
44	TAP120224	87.1962	88.0364	87.6496	2.0504e-01	1.9002e+00
45	TAP130224	86.8260	87.5635	87.1422	1.8924e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1170	2.1906e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130048	87.4078	88.3541	87.8412	3.0566e-01	1.9002e+00
49	TAI130136	86.7080	87.6520	87.1829	2.2460e-01	1.9002e+00
50	TAI130224	87.6518	88.8094	88.2579	2.9445e-01	1.9002e+00
51	TAI130312	87.0184	87.9656	87.4691	2.2401e-01	1.9002e+00
52	TRR130000	85.9818	86.9255	86.4060	2.5255e-01	1.9002e+00
53	TSI000001	81.2349	82.0794	81.7122	1.9092e-01	1.9001e+00
54	TSI000002	74.8406	76.1115	75.3701	2.7474e-01	1.9000e+00
55	TSO0000001	73.2688	74.1213	73.7038	2.0522e-01	1.9000e+00
56	TSO0000002	74.5657	75.4161	75.0590	1.6455e-01	1.9000e+00
57	TAF020136	86.5799	87.3193	86.9600	1.6934e-01	1.9002e+00
58	TAF120312	86.7494	87.9060	87.2586	2.9513e-01	1.9002e+00
59	TAF130312	86.6636	87.4002	87.0006	1.7644e-01	1.9002e+00
60	EMPTY	0.4980	0.5029	0.4997	2.3365e-03	0.0000e+00
61	EMPTY	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5271	9.6655e-04	0.0000e+00
63	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
64	EMPTY	0.3467	0.3564	0.3525	2.2058e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3758	9.6655e-04	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3907	6.9053e-04	0.0000e+00
67	EMPTY	0.4053	0.4150	0.4102	9.8648e-04	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4247	6.9053e-04	0.0000e+00
69	EMPTY	0.4395	0.4443	0.4440	1.1714e-03	0.0000e+00
70	EMPTY	0.4590	0.4590	0.4590	0.0000e+00	0.0000e+00
71	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4979	6.9053e-04	0.0000e+00
73	EMPTY	0.5127	0.5273	0.5177	1.8429e-03	0.0000e+00
74	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
75	EMPTY	0.5469	0.5518	0.5516	9.6655e-04	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5662	9.6655e-04	0.0000e+00
77	EMPTY	0.5859	0.5859	0.5859	0.0000e+00	0.0000e+00
78	EMPTY	0.6055	0.6104	0.6090	2.2146e-03	0.0000e+00
79	EMPTY	0.6299	0.6348	0.6300	6.9053e-04	0.0000e+00
80	PAN020136	59.9907	63.8817	61.4250	9.2251e-01	8.8345e-01
81	PAN050136	110.5226	111.8959	111.2520	2.9130e-01	1.7029e+00
82	PAN070136	75.3083	76.2238	75.8042	2.1092e-01	8.9040e-01
83	PAN080136	37.5720	38.1060	37.8435	1.1653e-01	8.7513e-01
84	PAN090136	39.4251	40.1880	39.8203	1.4268e-01	8.7568e-01
85	PAN100136	28.4270	28.9610	28.6955	1.1662e-01	8.7295e-01
86	PAN105136	17.6761	18.1338	17.9583	1.0253e-01	8.7116e-01
87	PAN110136	19.1052	19.9444	19.4393	1.7702e-01	8.7136e-01
88	PAN115136	19.7829	20.1644	19.9920	9.6024e-02	8.7143e-01
89	PAN120136	19.5351	19.9928	19.7685	9.6763e-02	8.7140e-01
90	PAN125136	22.0117	22.3932	22.1567	1.0595e-01	8.7176e-01
91	PAN130136	17.8902	18.2717	18.0809	8.6165e-02	8.7117e-01
92	PAN120048	33.2936	34.2092	33.7636	1.8261e-01	8.7409e-01
93	PAN130048	40.3626	41.2781	40.8463	1.9655e-01	8.7597e-01
94	PAN120224	32.0114	32.5454	32.2616	1.3263e-01	8.7373e-01
95	PAN130224	38.0694	38.9086	38.5745	1.6593e-01	8.7533e-01
96	PAN120312	37.0013	37.5354	37.2973	1.2199e-01	8.7498e-01
97	PAN130312	40.7368	41.3471	41.0420	1.5491e-01	8.7603e-01
98	PAB000136	44.5418	45.0453	44.7304	1.0651e-01	5.9068e-01
99	PAB100136	31.7710	31.9541	31.8562	4.0323e-02	5.8544e-01
100	PAB125136	28.0905	28.2736	28.1902	4.1038e-02	5.8427e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	44.0858	44.9403	44.4862	1.7791e-01	7.5820e-01
102	PRV000001	24.3456	24.7118	24.3847	7.1647e-02	7.5247e-01
103	PSR000001	25.3763	25.4983	25.3811	2.4164e-02	7.5268e-01
104	PFH000001	87.7691	90.1495	88.8769	6.0961e-01	5.4715e-01
105	PAN000136	470.8807	478.2049	474.8357	1.6039e+00	5.0612e+00
106	PFH000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0146	0.0099	1.2041e-03	0.0000e+00
108	EMPTY	-10.0000	1.5771	-2.7104	3.0875e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0049	0.0040	2.1364e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	-0.0093	8.6541e-02	8.1000e-01
113	VPW000002	-0.0376	0.3530	0.0405	1.0440e-01	8.1000e-01
114	VPW000003	-0.0864	0.1089	0.0152	9.8569e-02	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0291	9.3710e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0093	1.1545e-01	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0407	1.2534e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.5031	1.1156e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.0495	1.2221e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.0240	8.5317e-01	8.1000e+00
121	IPW000004	-0.7324	0.2441	0.0293	2.8179e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1062	3.0177e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.1003	3.2133e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0189	3.5072e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0140	2.9611e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0160	3.2777e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0157	3.1644e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0099	9.4125e-02	4.1000e+00
129	IHT000002	-0.0113	0.1840	0.0043	5.3525e-02	4.1000e+00
130	IHT000003	-0.3944	0.1916	-0.0311	9.6735e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	-0.0081	9.7377e-02	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0110	1.0595e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0224	1.0617e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0123	8.8321e-02	4.1000e+00
135	IHT000008	-0.0413	0.3493	0.0329	1.1084e-01	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0158	9.8648e-02	4.1000e+00
137	IHT000010	-0.2442	0.1465	-0.0215	7.9017e-02	4.1000e+00
138	IHT000011	-0.2291	0.3568	-0.0026	9.9512e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	-0.0122	9.5765e-02	4.1000e+00
140	IHT000013	-0.3531	0.2329	-0.0640	1.1995e-01	4.1000e+00
141	IHT000014	-0.2592	0.1314	-0.0170	1.0849e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0036	8.3612e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	-0.0131	8.6541e-02	4.1000e+00
144	IHT000017	-0.4582	0.1277	-0.2004	1.1464e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0110	1.1975e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1218	9.6976e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	-0.0036	1.1995e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0377	1.0617e-01	4.1000e+00
149	IHT000022	-0.0939	0.2967	-0.0197	1.0358e-01	4.1000e+00
150	IHT000023	-0.0113	0.3793	0.0317	9.0756e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0297	7.8523e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0020	9.3043e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0268	6.1257e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0004	7.2866e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0346	1.0625e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0179	1.0168e-01	4.1000e+00
157	IHT000030	-0.3831	0.2028	0.0153	9.6332e-02	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0527	1.0617e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	-0.0216	8.4997e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	-0.0102	7.9017e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0344	6.6498e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	-0.0067	9.8648e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0272	1.1084e-01	4.1000e+00

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Velocity 1 = 21.9407 (ft/sec) (+/- 1.7053 %)
 Velocity 2 = 13.4256 (ft/sec) (+/- 1.7032 %)
 Pressure drop = 13.6696 (psi)
 Tsat in = 268.5718 (deg F) Tsat out = 245.6488 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3673.4431 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 5401.2769 %)
 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	73.8393	74.4796	74.1680	1.6254e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	73.9642	1.3049e-01	1.9000e+00
2	TRF0000001	86.6333	87.5789	87.0915	2.0222e-01	1.9002e+00
3	TIN0000001	85.9463	86.5789	86.2372	1.5435e-01	1.9002e+00
4	TRV0000001	86.4257	87.3681	86.8520	2.0067e-01	1.9002e+00
5	TSR0000001	86.9493	87.5797	87.2766	1.3186e-01	1.9002e+00
6	TAO020136	80.2648	81.1122	80.6337	2.0657e-01	1.9001e+00
7	TAO050136	86.3934	87.1279	86.7243	1.7914e-01	1.9002e+00
8	TAO070136	86.5078	87.2459	86.8328	1.7157e-01	1.9002e+00
9	TAO080136	86.2948	86.9235	86.5671	1.4008e-01	1.9002e+00
10	TAO090136	86.9672	87.7032	87.3080	1.7437e-01	1.9002e+00
11	TAO100136	86.3201	86.9520	86.6402	1.4572e-01	1.9002e+00
12	TAO105136	87.3495	88.0869	87.7036	1.9464e-01	1.9002e+00
13	TAO110136	86.8041	87.4342	87.1062	1.4745e-01	1.9002e+00
14	TAO115136	86.7507	87.5931	87.1638	2.1247e-01	1.9002e+00
15	TAO120136	86.4746	87.0016	86.7276	1.5911e-01	1.9002e+00
16	TAO125136	87.1136	87.8491	87.4586	1.6583e-01	1.9002e+00
17	TAO130136	86.3447	87.0747	86.6828	1.5724e-01	1.9002e+00
18	TAO120048	72.8586	73.3915	73.1272	1.6542e-01	1.9000e+00
19	TAO130048	86.2029	86.8343	86.5310	1.4189e-01	1.9002e+00
20	TAO120224	86.5199	87.2556	86.8773	1.5470e-01	1.9002e+00
21	TAO130224	86.5871	87.3190	86.8802	1.6375e-01	1.9002e+00
22	TAO120312	86.4997	87.5522	86.9424	1.9840e-01	1.9002e+00
23	TAO130312	86.3757	87.2156	86.7374	1.4121e-01	1.9002e+00
24	TAT020000	86.7724	87.6160	87.2490	1.8832e-01	1.9002e+00
25	TAT070000	86.7565	87.3907	87.0865	1.4094e-01	1.9002e+00
26	TAT100000	86.9288	87.7676	87.3182	1.9083e-01	1.9002e+00
27	TAT120000	86.7329	87.4682	87.0768	1.6460e-01	1.9002e+00
28	TAT125000	86.8265	87.5607	87.1289	1.5938e-01	1.9002e+00
29	TAT130000	86.5356	87.1656	86.9053	1.4132e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6791	2.0447e-01	1.9011e+00
31	TAF050136	86.9817	87.7162	87.2593	1.6114e-01	1.9002e+00
32	TAF070136	86.9755	88.0212	87.5781	2.2225e-01	1.9002e+00
33	TAF080136	86.7386	87.5767	87.1903	1.6317e-01	1.9002e+00
34	TAF090136	73.4113	74.5784	73.8784	2.8436e-01	1.9000e+00
35	TAF100136	86.7920	87.6350	87.0958	1.8630e-01	1.9002e+00
36	TAF105136	86.4921	87.4335	86.9688	2.2533e-01	1.9002e+00
37	TAF110136	86.3123	87.0470	86.8321	1.6004e-01	1.9002e+00
38	TAF115136	87.0141	87.8541	87.4421	1.8459e-01	1.9002e+00
39	TAF120136	86.9510	87.5818	87.2494	1.3141e-01	1.9002e+00
40	TAF125136	86.7230	87.9774	87.3954	2.7565e-01	1.9002e+00
41	TAF130136	86.7113	87.4470	87.0771	1.6061e-01	1.9002e+00
42	TAF120048	87.0795	87.9242	87.5187	2.1793e-01	1.9002e+00
43	TAF130048	86.6805	87.5217	87.1178	1.8426e-01	1.9002e+00
44	TAF120224	86.7764	87.7219	87.1298	2.2222e-01	1.9002e+00
45	TAF130224	86.4034	86.9313	86.6484	1.4980e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	2.0332e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2337	1.2178e-01	1.9010e+00
48	TAI130048	86.7783	88.1442	87.3751	3.0125e-01	1.9002e+00
49	TAI130136	86.1854	87.0257	86.6553	2.1211e-01	1.9002e+00
50	TAI130224	87.2302	88.1778	87.7486	2.4692e-01	1.9002e+00
51	TAI130312	86.4923	87.3346	86.9643	1.8564e-01	1.9002e+00
52	TRR130000	85.5621	86.5078	85.9868	2.3419e-01	1.9002e+00
53	TSI0000001	81.1305	81.9745	81.5059	1.4944e-01	1.9001e+00
54	TSI0000002	75.0521	76.2167	75.7378	2.7886e-01	1.9000e+00
55	TSO0000001	73.9089	74.7608	74.2581	1.8011e-01	1.9000e+00
56	TSO0000002	74.8846	75.7343	75.3432	2.0289e-01	1.9000e+00
57	TAF020136	86.0507	86.8954	86.4436	1.8368e-01	1.9002e+00
58	TAF120312	86.2243	87.3812	86.8008	2.6954e-01	1.9002e+00
59	TAF130312	86.1399	86.9809	86.4552	1.6583e-01	1.9002e+00
60	EMPTY	0.4834	0.4932	0.4881	1.3811e-03	0.0000e+00
61	EMPTY	0.4932	0.5078	0.5026	1.8216e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5154	2.4484e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5319	1.1714e-03	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3694	2.335e-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	0.4248	0.4198	1.2041e-03	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4392	1.1714e-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	0.4930	9.6655e-04	0.0000e+00
73	EMPTY	0.5127	0.5273	0.5130	2.0716e-03	0.0000e+00
74	EMPTY	0.5225	0.5322	0.5273	9.8648e-04	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5615	0.5615	0.5615	0.0000e+00	0.0000e+00
77	EMPTY	0.5811	0.5811	0.5811	0.0000e+00	0.0000e+00
78	EMPTY	0.6006	0.6104	0.6043	2.3261e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6252	9.6655e-04	0.0000e+00
80	PAN020136	47.4022	50.4539	48.8335	7.0374e-01	8.7852e-01
81	PAN050136	87.7870	89.6181	88.6782	3.6522e-01	1.6946e+00
82	PAN070136	59.8969	60.9650	60.4112	2.3315e-01	8.8301e-01
83	PAN080136	30.0951	30.7818	30.3850	1.4784e-01	8.7331e-01
84	PAN090136	30.9564	31.8720	31.4127	1.8719e-01	8.7354e-01
85	PAN100136	22.1709	22.8575	22.5081	1.5188e-01	8.7182e-01
86	PAN105136	14.0139	14.4717	14.2062	1.3010e-01	8.7072e-01
87	PAN110136	14.9090	15.8245	15.3698	2.1411e-01	8.7085e-01
88	PAN115136	16.0445	16.5023	16.2536	1.0546e-01	8.7095e-01
89	PAN120136	15.1863	15.7204	15.4716	1.0987e-01	8.7086e-01
90	PAN125136	18.0444	18.4259	18.2229	9.9427e-02	8.7119e-01
91	PAN130136	14.1518	14.6096	14.3273	1.0482e-01	8.7074e-01
92	PAN120048	25.7405	26.8087	26.2212	2.6033e-01	8.7247e-01
93	PAN130048	31.5125	33.0384	32.2281	2.9844e-01	8.7372e-01
94	PAN120224	24.7635	25.3738	25.0656	1.4619e-01	8.7225e-01
95	PAN130224	31.3555	31.9659	31.6424	1.4174e-01	8.7359e-01
96	PAN120312	28.9141	29.6771	29.3078	1.7463e-01	8.7308e-01
97	PAN130312	32.4970	33.1074	32.8114	1.5463e-01	8.7386e-01
98	PAB000136	40.5592	41.1085	40.8146	1.2884e-01	5.8891e-01
99	PAB100136	30.4893	30.6266	30.5497	3.8622e-02	5.8501e-01
100	PAB125136	27.5411	27.6785	27.6071	4.0481e-02	5.8409e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	40.0575	40.9120	40.4628	1.9797e-01	7.5679e-01
102	PRV0000001	24.2235	24.4677	24.3676	5.3409e-02	7.5247e-01
103	PSR0000001	25.2542	25.3763	25.2981	5.9189e-02	7.5266e-01
104	PFM0000001	73.3954	75.2264	74.1516	4.4230e-01	5.3326e-01
105	PAN000136	374.2925	383.9056	378.4491	2.2250e+00	5.0101e+00
106	PFM0000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	0.8447	-2.8591	2.8694e+00	0.0000e+00
109	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0028	2.4344e-03	0.0000e+00
112	VPW0000001	-0.0601	0.1352	0.0337	9.8569e-02	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0210	9.0412e-02	8.1000e-01
114	VPW0000003	-0.0864	0.3042	0.0308	1.0440e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0213	9.9512e-02	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0102	1.0447e-01	8.1000e-01
117	VPW0000006	-0.2366	0.1540	0.0134	1.0470e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.1517	1.0795e+00	8.1000e+00
119	IPW0000002	-4.6155	3.1896	0.3407	1.4860e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.3750	1.3066e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.0879	2.6908e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.0672	2.9327e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.0808	4.3282e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0194	3.7551e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0136	2.6635e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0166	3.2718e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0160	3.1257e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	-0.0057	9.5112e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	-0.0113	5.5804e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	-0.0194	6.6498e-02	4.1000e+00
131	IHT0000004	-0.0901	0.1052	-0.0003	9.8332e-02	4.1000e+00
132	IHT0000005	-0.2742	0.1164	0.0110	1.0595e-01	4.1000e+00
133	IHT0000006	-0.1239	0.0714	0.0089	9.2034e-02	4.1000e+00
134	IHT0000007	-0.0150	0.1803	0.0084	6.4113e-02	4.1000e+00
135	IHT0000008	-0.2366	0.1540	0.0016	9.0756e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0119	8.6810e-02	4.1000e+00
137	IHT0000010	-0.2442	0.1465	0.0019	9.5112e-02	4.1000e+00
138	IHT0000011	-0.0338	0.1615	0.0209	8.8585e-02	4.1000e+00
139	IHT0000012	-0.0864	0.1089	-0.0161	9.4702e-02	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0132	1.0297e-01	4.1000e+00
141	IHT0000014	-0.2592	0.3268	0.0494	1.1223e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	0.0042	8.2864e-02	4.1000e+00
143	IHT0000016	-0.0638	0.3268	0.0377	1.0617e-01	4.1000e+00
144	IHT0000017	-0.2629	0.3230	0.0261	2.2055e-01	4.1000e+00
145	IHT0000018	-0.1164	0.0789	0.0008	9.6655e-02	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.1414	9.4125e-02	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0277	1.0014e-01	4.1000e+00
148	IHT0000021	-0.2591	0.1315	0.0143	1.0440e-01	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0158	9.6655e-02	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0161	8.8321e-02	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0297	9.6332e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0020	9.3043e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0111	7.3716e-02	4.1000e+00
154	IHT0000027	-0.2066	0.1840	-0.0035	5.5243e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	0.0033	1.1443e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0413	0.1540	0.0056	8.4262e-02	4.1000e+00
157	IHT0000030	-0.3831	0.5935	0.0270	1.4895e-01	4.1000e+00
158	IHT0000031	-0.2442	0.3418	0.0332	1.1223e-01	4.1000e+00
159	IHT0000032	-0.0451	0.3455	-0.0021	9.0756e-02	4.1000e+00
160	IHT0000033	-0.0376	0.3531	0.0249	1.0014e-01	4.1000e+00
161	IHT0000034	-0.1765	0.2141	-0.0007	9.8648e-02	4.1000e+00
162	IHT0000035	-0.2216	0.3643	0.0284	1.1189e-01	4.1000e+00
163	IHT0000036	-0.0939	0.2967	0.0233	1.0440e-01	4.1000e+00

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Velocity 1 - 19.9814 (ft/sec) (+/- 1.7205 %)
 Velocity 2 - 13.4252 (ft/sec) (+/- 1.7032 %)
 Pressure drop - 10.6960 (psi)
 Tsat in - 263.4255 (deg F) Tsat out - 244.5272 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 26896.1348 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 1823.3159 %)
 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	73.8393	74.4796	74.1552	1.6271e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	73.9727	1.3161e-01	1.9000e+00
2	TFH0000001	86.3188	87.0540	86.7114	1.6149e-01	1.9002e+00
3	TIN0000001	85.5247	86.2626	85.8728	1.7454e-01	1.9002e+00
4	TRV0000001	86.0056	86.8441	86.4942	1.9015e-01	1.9002e+00
5	TSR0000001	86.5302	87.1614	86.9188	1.3624e-01	1.9002e+00
6	TAC020136	80.0531	81.1122	80.5299	2.5058e-01	1.9001e+00
7	TAC050136	85.9734	86.7098	86.3499	1.7632e-01	1.9002e+00
8	TAC070136	85.9802	86.9295	86.4887	1.7925e-01	1.9002e+00
9	TAC080136	85.8750	86.7146	86.2222	1.8144e-01	1.9002e+00
10	TAC090136	86.6523	87.2839	86.9116	1.6736e-01	1.9002e+00
11	TAC100136	85.9002	86.5323	86.2477	1.3667e-01	1.9002e+00
12	TAC105136	86.9285	87.7712	87.3269	1.9293e-01	1.9002e+00
13	TAC110136	86.2824	87.0178	86.6750	1.5818e-01	1.9002e+00
14	TAC115136	86.3301	87.1726	86.7912	2.0608e-01	1.9002e+00
15	TAC120136	85.9490	86.6864	86.3514	1.4844e-01	1.9002e+00
16	TAC125136	86.7988	87.3257	87.0748	1.3422e-01	1.9002e+00
17	TAC130136	85.9298	86.5591	86.2581	1.6208e-01	1.9002e+00
18	TAC120048	72.9648	73.7100	73.2780	1.6289e-01	1.9000e+00
19	TAC130048	85.8882	86.4155	86.1351	1.3204e-01	1.9002e+00
20	TAC120224	86.2041	86.7313	86.4593	1.5480e-01	1.9002e+00
21	TAC130224	86.1707	86.8004	86.4701	1.3891e-01	1.9002e+00
22	TAC120312	86.2892	86.8166	86.5024	1.4036e-01	1.9002e+00
23	TAC130312	86.0609	86.5881	86.3077	1.1773e-01	1.9002e+00
24	TRT020000	86.3508	87.1945	86.8632	2.0975e-01	1.9002e+00
25	TRT070000	86.3342	86.9678	86.6867	1.5176e-01	1.9002e+00
26	TRT100000	86.5080	87.4539	87.0062	2.0308e-01	1.9002e+00
27	TRT120000	86.3117	87.0487	86.7012	1.4609e-01	1.9002e+00
28	TRT125000	86.3038	87.1433	86.7176	1.9564e-01	1.9002e+00
29	TRT130000	86.2202	86.8520	86.5299	1.6092e-01	1.9002e+00
30	EMPTY	38.9168	40.0646	39.6148	2.3630e-01	1.9011e+00
31	TAF050136	86.5637	87.1943	86.9015	1.4112e-01	1.9002e+00
32	TAF070136	86.7661	87.7093	87.2210	2.1830e-01	1.9002e+00
33	TAF080136	86.5296	87.1600	86.8089	1.7783e-01	1.9002e+00
34	TAF090136	73.5166	74.4723	74.0204	2.4601e-01	1.9000e+00
35	TAF100136	86.3707	87.1083	86.6892	1.8734e-01	1.9002e+00
36	TAF105136	85.9717	87.1219	86.5874	2.9192e-01	1.9002e+00
37	TAF110136	86.1025	86.7338	86.4450	1.5854e-01	1.9002e+00
38	TAF115136	86.5951	87.5398	87.0462	2.0034e-01	1.9002e+00
39	TAF120136	86.4275	87.1637	86.8458	1.6634e-01	1.9002e+00
40	TAF125136	86.5141	87.4531	86.8975	2.3942e-01	1.9002e+00
41	TAF130136	86.3966	87.0281	86.7063	1.5803e-01	1.9002e+00
42	TAF120048	86.5510	87.6074	87.0853	2.3118e-01	1.9002e+00
43	TAF130048	86.1557	86.9958	86.6920	1.5784e-01	1.9002e+00
44	TAF120224	86.2519	87.0932	86.7126	1.6691e-01	1.9002e+00
45	TAF130224	85.8758	86.7203	86.2495	1.8850e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0848	2.0716e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130048	86.3581	87.6184	86.9445	3.0837e-01	1.9002e+00
49	TAI130136	85.8703	86.6070	86.2721	1.7828e-01	1.9002e+00
50	TAI130224	86.7039	88.1777	87.3464	3.6677e-01	1.9002e+00
51	TAI130312	86.0720	87.1246	86.5708	2.3282e-01	1.9002e+00
52	TRR130000	85.1433	86.0888	85.6619	2.3555e-01	1.9002e+00
53	TSI0000001	81.0244	81.7642	81.3186	1.6285e-01	1.9001e+00
54	TSI0000002	75.4744	76.4274	75.9174	2.5363e-01	1.9000e+00
55	TSO0000001	74.1219	75.0805	74.5970	2.0445e-01	1.9000e+00
56	TSO0000002	75.0968	75.9463	75.4598	1.9074e-01	1.9000e+00
57	TAF020136	85.7324	86.4723	86.0351	1.7480e-01	1.9002e+00
58	TAF120312	85.8040	86.8564	86.3534	2.5688e-01	1.9002e+00
59	TAF130312	85.7201	86.5614	86.0334	1.6370e-01	1.9002e+00
60	EMPTY	0.4785	0.4785	0.4785	0.0000e+00	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4934	9.6655e-04	0.0000e+00
62	EMPTY	0.5029	0.5176	0.5069	2.5515e-03	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5224	6.9053e-04	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3423	1.4797e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3657	1.4797e-03	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3810	6.9053e-04	0.0000e+00
67	EMPTY	0.4004	0.4004	0.4004	0.0000e+00	0.0000e+00
68	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4347	6.9053e-04	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4490	9.6655e-04	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4881	9.6655e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5238	2.2146e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5421	6.9053e-04	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5569	1.1714e-03	0.0000e+00
77	EMPTY	0.5762	0.5859	0.5776	2.4662e-03	0.0000e+00
78	EMPTY	0.6006	0.6006	0.6006	0.0000e+00	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6249	6.9053e-04	0.0000e+00
80	PAN020136	37.0262	40.4594	38.2118	6.9979e-01	8.7523e-01
81	PAN050136	68.8661	70.2394	69.6382	3.4797e-01	1.6890e+00
82	PAN070136	46.8507	48.0714	47.4183	2.3986e-01	8.7804e-01
83	PAN080136	23.6865	24.2968	23.9489	1.4224e-01	8.7206e-01
84	PAN090136	23.8611	24.7003	24.2792	1.7455e-01	8.7211e-01
85	PAN100136	16.9829	17.5169	17.1919	1.3152e-01	8.7106e-01
86	PAN105136	10.6570	11.1911	10.9362	1.2293e-01	8.7043e-01
87	PAN110136	11.7046	12.3913	12.0586	1.7893e-01	8.7052e-01
88	PAN115136	12.6876	13.2216	12.9836	1.2583e-01	8.7061e-01
89	PAN120136	11.8294	12.2871	12.0216	9.7777e-02	8.7052e-01
90	PAN125136	14.5349	15.1452	14.7378	1.2000e-01	8.7078e-01
91	PAN130136	11.1001	11.5578	11.2740	1.0572e-01	8.7046e-01
92	PAN120048	19.6370	20.4763	20.0627	2.2128e-01	8.7144e-01
93	PAN130048	24.7223	25.7141	25.1831	2.8917e-01	8.7227e-01
94	PAN120224	18.8888	19.4992	19.2077	1.3760e-01	8.7132e-01
95	PAN130224	25.0231	25.7098	25.3863	1.3398e-01	8.7231e-01
96	PAN120312	22.2766	23.1158	22.6428	1.7302e-01	8.7184e-01
97	PAN130312	25.6306	26.1646	25.8732	1.1605e-01	8.7240e-01
98	PAB000136	37.1718	37.7211	37.4309	1.3421e-01	5.8750e-01
99	PAB100136	29.2991	29.5280	29.4044	4.6472e-02	5.8464e-01
100	PAB125136	26.9918	27.1749	27.0724	3.8754e-02	5.8394e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	36.7616	37.6161	37.1400	1.9768e-01	7.5573e-01
102	PRV000001	24.3456	24.4677	24.4432	4.9324e-02	7.5249e-01
103	PSR000001	25.1321	25.2542	25.2322	4.7374e-02	7.5265e-01
104	PFM000001	60.6695	62.1344	61.4514	3.8542e-01	5.2307e-01
105	PAN000136	290.9796	300.1348	296.1249	1.9652e+00	4.9754e+00
106	PFM000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0093	1.4797e-03	0.0000e+00
108	EMPTY	-10.0000	0.3906	-3.5878	3.3683e+00	0.0000e+00
109	EMPTY	0.0000	0.0098	0.0049	1.3951e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0024	2.4662e-03	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0493	1.0559e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0210	9.0412e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	-0.0044	1.1223e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0369	9.5357e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0376	1.2478e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0798	1.1765e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.0346	1.3058e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	-0.2056	1.2961e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2970	1.0393e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1269	2.5266e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0281	2.6097e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0124	3.1752e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0203	3.8662e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0145	2.6025e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0154	3.0180e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0165	3.6765e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	-0.0057	1.1712e-01	4.1000e+00
129	IHT000002	-0.0113	0.1840	0.0043	5.3525e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0116	6.7888e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	-0.0081	1.1897e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0188	1.0625e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0302	1.0617e-01	4.1000e+00
134	IHT000007	-0.2104	0.3756	0.0006	8.6810e-02	4.1000e+00
135	IHT000008	-0.2366	0.1540	-0.0023	8.8233e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0236	8.8321e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0293	9.6655e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0248	9.0412e-02	4.1000e+00
139	IHT000012	-0.2817	0.1089	0.0113	1.0625e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	0.0141	8.4997e-02	4.1000e+00
141	IHT000014	-0.0639	0.1314	0.0494	9.7377e-02	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0075	3.9459e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0377	1.0617e-01	4.1000e+00
144	IHT000017	-0.2629	0.3230	-0.0051	2.1410e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	-0.0188	1.1334e-01	4.1000e+00
146	IHT000019	-0.1765	0.2141	-0.1218	9.6976e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0511	1.1161e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0455	1.0559e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0080	9.7935e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0200	9.1354e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0376	7.8918e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	0.0058	1.0470e-01	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0072	8.7880e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0043	8.6810e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0045	1.1334e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	0.0056	9.3043e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0114	9.2456e-02	4.1000e+00
158	IHT000031	-0.0488	0.1465	0.0371	9.7935e-02	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0018	9.3043e-02	4.1000e+00
160	IHT000033	-0.2329	0.1578	0.0289	1.0145e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0188	7.8918e-02	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0362	9.2034e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0115	1.0595e-01	4.1000e+00

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Velocity 1 = 17.9603 (ft/sec) (+/- 1.7460 %)
 Velocity 2 = 13.4251 (ft/sec) (+/- 1.7032 %)
 Pressure drop = 7.8481 (psi)
 Tsat in = 258.1332 (deg F) Tsat out = 243.5500 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 5204.7490 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 6401.2686 %)
 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	73.8393	74.4796	74.1594	1.8420e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	73.9854	1.4862e-01	1.9000e+00
2	TRF0000001	86.1075	86.9491	86.5728	2.0829e-01	1.9002e+00
3	TIN0000001	85.4192	85.9471	85.7168	1.4400e-01	1.9002e+00
4	TRV0000001	85.7956	86.7406	86.2765	2.1206e-01	1.9002e+00
5	TSR0000001	86.3209	86.9502	86.5882	1.5768e-01	1.9002e+00
6	TAO020136	80.0536	80.9005	80.4071	2.4357e-01	1.9001e+00
7	TAO050136	85.7641	86.4990	86.1868	1.6229e-01	1.9002e+00
8	TAO070136	85.8741	86.8239	86.3114	2.1107e-01	1.9002e+00
9	TAO080136	85.7716	86.5056	86.1094	1.6350e-01	1.9002e+00
10	TAO090136	86.2327	87.0743	86.7355	2.0940e-01	1.9002e+00
11	TAO100136	85.6907	86.4272	86.0419	1.7740e-01	1.9002e+00
12	TAO105136	86.5079	87.4552	87.0785	2.1285e-01	1.9002e+00
13	TAO110136	86.0740	86.9122	86.4668	1.8806e-01	1.9002e+00
14	TAO115136	86.1196	87.0670	86.6228	2.3624e-01	1.9002e+00
15	TAO120136	85.8438	86.3711	86.1538	1.8111e-01	1.9002e+00
16	TAO125136	86.5890	87.0110	86.8525	1.3826e-01	1.9002e+00
17	TAO130136	85.7231	86.4540	86.0552	1.8121e-01	1.9002e+00
18	TAO120048	73.0711	73.8156	73.4437	1.5233e-01	1.9000e+00
19	TAO130048	85.6787	86.3104	85.9885	1.3182e-01	1.9002e+00
20	TAO120224	85.9940	86.6262	86.2702	1.5182e-01	1.9002e+00
21	TAO130224	86.0650	86.6953	86.2829	1.6186e-01	1.9002e+00
22	TAO120312	85.8685	86.6061	86.2960	1.6540e-01	1.9002e+00
23	TAO130312	85.6414	86.4825	86.1107	1.5511e-01	1.9002e+00
24	TRT020000	86.2450	86.9837	86.6903	2.0789e-01	1.9002e+00
25	TRT070000	86.1226	86.7562	86.4709	1.7620e-01	1.9002e+00
26	TRT100000	86.4036	87.1395	86.7213	1.8795e-01	1.9002e+00
27	TRT120000	86.2069	86.8380	86.4955	1.6018e-01	1.9002e+00
28	TRT125000	86.0949	86.8290	86.5590	1.7477e-01	1.9002e+00
29	TRT130000	86.0104	86.6423	86.3076	1.4058e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5827	2.4650e-01	1.9011e+00
31	TAF050136	86.3538	87.0887	86.6965	1.5715e-01	1.9002e+00
32	TAF070136	86.6610	87.5005	87.0373	2.2393e-01	1.9002e+00
33	TAF080136	86.1126	87.0544	86.5922	1.7976e-01	1.9002e+00
34	TAF090136	73.4107	74.4723	73.9653	2.6537e-01	1.9000e+00
35	TAF100136	86.0548	86.8982	86.4828	1.8119e-01	1.9002e+00
36	TAF105136	85.8660	87.0163	86.4290	2.9780e-01	1.9002e+00
37	TAF110136	85.9973	86.6287	86.2819	1.7026e-01	1.9002e+00
38	TAF115136	86.3850	87.2248	86.7991	1.9486e-01	1.9002e+00
39	TAF120136	86.4275	86.8495	86.6911	1.2464e-01	1.9002e+00
40	TAF125136	86.2095	87.2477	86.7267	2.8049e-01	1.9002e+00
41	TAF130136	85.9774	86.8187	86.5009	1.7827e-01	1.9002e+00
42	TAF120048	86.5504	87.2902	86.8950	1.9875e-01	1.9002e+00
43	TAF130048	86.1567	86.7876	86.4823	1.7296e-01	1.9002e+00
44	TAF120224	86.1473	86.8831	86.5407	1.8846e-01	1.9002e+00
45	TAF130224	85.7701	86.4036	86.0426	1.7326e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.9168	38.1032	2.1390e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2153	1.0630e-01	1.9010e+00
48	TAI130048	86.1479	87.4090	86.7513	3.1417e-01	1.9002e+00
49	TAI130136	85.6608	86.5014	86.0753	2.0174e-01	1.9002e+00
50	TAI130224	86.5988	87.7574	87.1106	2.6402e-01	1.9002e+00
51	TAI130312	85.9663	86.8092	86.3730	2.1691e-01	1.9002e+00
52	TRR130000	84.8278	85.8792	85.4901	2.3466e-01	1.9002e+00
53	TSI0000001	80.8139	81.6587	81.2260	1.9104e-01	1.9001e+00
54	TSI0000002	75.2635	76.2167	75.7906	2.5172e-01	1.9000e+00
55	TSO0000001	74.1219	75.1869	74.6908	2.0370e-01	1.9000e+00
56	TSO0000002	74.9907	75.8403	75.4302	2.0798e-01	1.9000e+00
57	TAP020136	85.6264	86.3671	85.9038	1.8727e-01	1.9002e+00
58	TAP120312	85.6989	86.7508	86.1559	2.4736e-01	1.9002e+00
59	TAP130312	85.5097	86.2465	85.8697	1.7291e-01	1.9002e+00
60	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
61	EMPTY	0.4883	0.4932	0.4885	9.6655e-04	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5020	1.9730e-03	0.0000e+00
63	EMPTY	0.5127	0.5225	0.5172	1.6624e-03	0.0000e+00
64	EMPTY	0.3320	0.3516	0.3393	3.1567e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3610	1.1714e-03	0.0000e+00
66	EMPTY	0.3760	0.3809	0.3767	1.7115e-03	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3957	9.6655e-04	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4104	9.6655e-04	0.0000e+00
69	EMPTY	0.4248	0.4395	0.4296	1.8429e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4445	9.6655e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4687	6.9053e-04	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4835	6.9053e-04	0.0000e+00
73	EMPTY	0.4980	0.5078	0.5029	9.8648e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5186	1.9730e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5373	9.6655e-04	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5520	9.6655e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5718	1.4797e-03	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5956	6.9053e-04	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6183	2.3941e-03	0.0000e+00
80	PAN020136	26.4976	29.4731	27.9610	6.6933e-01	8.7280e-01
81	PAN050136	50.5556	51.7763	51.2086	3.2630e-01	1.6849e+00
82	PAN070136	34.3385	35.2540	34.8191	2.4286e-01	8.7434e-01
83	PAN080136	17.2015	17.9644	17.6302	1.6807e-01	8.7112e-01
84	PAN090136	16.6895	17.9865	17.4753	2.4335e-01	8.7110e-01
85	PAN100136	11.7949	13.0156	12.1779	2.1716e-01	8.7053e-01
86	PAN105136	7.6815	8.0630	7.8814	9.3618e-02	8.7022e-01
87	PAN110136	8.4240	9.1106	8.8146	1.8409e-01	8.7028e-01
88	PAN115136	9.4832	9.9410	9.7289	1.1357e-01	8.7034e-01
89	PAN120136	8.7013	9.0065	8.8615	7.8972e-02	8.7028e-01
90	PAN125136	10.9491	11.4068	11.1261	1.1580e-01	8.7044e-01
91	PAN130136	7.9720	8.4298	8.1627	8.8880e-02	8.7024e-01
92	PAN120048	13.9913	14.9068	14.3926	1.9363e-01	8.7074e-01
93	PAN130048	17.9322	18.9240	18.4494	2.3843e-01	8.7122e-01
94	PAN120224	13.5482	14.0060	13.7787	1.1482e-01	8.7068e-01
95	PAN130224	18.7670	19.5300	19.0692	1.6236e-01	8.7131e-01
96	PAN120312	16.1730	16.7834	16.5225	1.3178e-01	8.7098e-01
97	PAN130312	18.7641	19.3745	19.0861	1.2923e-01	8.7131e-01
98	PAB000136	33.9674	34.3794	34.2183	9.4874e-02	5.8627e-01
99	PAB100136	28.2463	28.4751	28.3607	5.4908e-02	5.8432e-01
100	PAB125136	26.5341	26.7172	26.6137	4.6065e-02	5.8380e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	33.7098	34.3202	34.0199	1.7300e-01	7.5481e-01
102	PRV0000001	24.3456	24.4677	24.4579	3.3453e-02	7.5249e-01
103	FSR0000001	25.1321	25.3763	25.2102	6.4121e-02	7.5264e-01
104	PFM0000001	48.6761	50.0494	49.5971	2.9733e-01	5.1514e-01
105	PAN000136	212.2442	221.8572	217.2796	1.9597e+00	4.9499e+00
106	PFM0000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0087	2.0432e-03	0.0000e+00
108	EMPTY	-10.0000	0.0098	-3.4773	3.2070e+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	0.0016	2.3008e-03	0.0000e+00
112	VPW0000001	-0.2554	0.3305	0.0141	1.2409e-01	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0327	9.4702e-02	8.1000e-01
114	VPW0000003	-0.0864	0.3042	0.0073	1.0617e-01	8.1000e-01
115	VPW0000004	-0.2479	0.3381	-0.0174	1.2283e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	-0.0015	1.0440e-01	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.0876	1.0885e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.4250	1.0701e+00	8.1000e+00
119	IPW0000002	-2.6642	1.2383	-0.1666	1.1853e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.6090	1.2232e+00	8.1000e+00
121	IPW0000004	-1.2207	0.7324	0.1660	3.3249e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.1062	3.3245e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.1003	4.1397e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0201	3.0628e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0131	2.3008e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.5648e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0164	3.2359e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	0.0138	9.9512e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0161	9.6735e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	0.0119	8.6810e-02	4.1000e+00
131	IHT0000004	-0.0901	0.3005	0.0271	1.1161e-01	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0461	1.0992e-01	4.1000e+00
133	IHT0000006	-0.3193	0.2667	0.0245	1.0106e-01	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0240	8.8233e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0368	9.6655e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	0.0077	9.2456e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0097	9.0412e-02	4.1000e+00
138	IHT0000011	-0.0338	0.1615	-0.0143	5.9189e-02	4.1000e+00
139	IHT0000012	-0.0864	0.1089	-0.0004	9.7935e-02	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0054	9.0756e-02	4.1000e+00
141	IHT0000014	-0.0639	0.1314	0.0377	9.8569e-02	4.1000e+00
142	IHT0000015	-0.3981	0.1878	-0.0153	8.7880e-02	4.1000e+00
143	IHT0000016	-0.0638	0.1315	0.0182	9.7377e-02	4.1000e+00
144	IHT0000017	-0.6536	0.7136	-0.0090	2.8794e-01	4.1000e+00
145	IHT0000018	-0.1164	0.2742	-0.0110	1.0595e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.1453	9.9512e-02	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0237	1.0885e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0299	1.0617e-01	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0119	9.7377e-02	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0200	9.9512e-02	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0219	7.7324e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0254	8.4997e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	-0.0084	8.4997e-02	4.1000e+00
154	IHT0000027	-0.2066	0.1840	0.0083	8.1347e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	0.0072	1.3646e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2366	0.1540	0.0095	1.0297e-01	4.1000e+00
157	IHT0000030	-0.1878	0.2028	0.0270	1.1334e-01	4.1000e+00
158	IHT0000031	-0.2442	0.3418	0.0410	1.1975e-01	4.1000e+00
159	IHT0000032	-0.0451	0.3455	0.0213	1.0145e-01	4.1000e+00
160	IHT0000033	-0.2329	0.1578	0.0132	9.5112e-02	4.1000e+00
161	IHT0000034	-0.1765	0.2141	0.0149	1.0799e-01	4.1000e+00
162	IHT0000035	-0.2216	0.1690	0.0245	1.1027e-01	4.1000e+00
163	IHT0000036	-0.0939	0.2967	0.0194	1.0507e-01	4.1000e+00

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Velocity 1 - 15.9887 (ft/sec) (+/- 1.7889 %)
 Velocity 2 - 13.4250 (ft/sec) (+/- 1.7032 %)
 Pressure drop - 5.3144 (psi)
 Tsat in - 252.9817 (deg F) Tsat out - 242.5725 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 4434.4668 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 3431.8284 %)
 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	73.8393	74.4796	74.1338	1.7188e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	73.9727	1.3843e-01	1.9000e+00
2	TFH0000001	86.0030	87.0540	86.4908	1.8731e-01	1.9002e+00
3	TIN0000001	85.4192	85.8419	85.6178	1.2723e-01	1.9002e+00
4	TRV0000001	85.7962	86.5313	86.2073	1.7449e-01	1.9002e+00
5	TSR0000001	86.1116	86.6379	86.4018	1.3342e-01	1.9002e+00
6	TAO020136	79.8413	80.7949	80.3923	2.3045e-01	1.9001e+00
7	TAO050136	85.6606	86.3955	86.0758	1.5575e-01	1.9002e+00
8	TAO070136	85.8741	86.6134	86.2206	1.9187e-01	1.9002e+00
9	TAO080136	85.5619	86.2972	85.9942	1.5528e-01	1.9002e+00
10	TAO090136	86.3379	87.0743	86.6620	1.7086e-01	1.9002e+00
11	TAO100136	85.6902	86.2173	85.9683	1.4696e-01	1.9002e+00
12	TAO105136	86.5079	87.4552	86.9753	1.8442e-01	1.9002e+00
13	TAO110136	85.9713	86.8095	86.3687	1.7056e-01	1.9002e+00
14	TAO115136	86.0141	86.8571	86.5365	2.3495e-01	1.9002e+00
15	TAO120136	85.8438	86.3706	86.0423	1.4058e-01	1.9002e+00
16	TAO125136	86.4843	87.2207	86.7790	1.5023e-01	1.9002e+00
17	TAO130136	85.7226	86.2469	85.9658	1.5719e-01	1.9002e+00
18	TAO120048	73.0711	73.9223	73.4500	1.5673e-01	1.9000e+00
19	TAO130048	85.5743	86.3099	85.8564	1.6510e-01	1.9002e+00
20	TAO120224	85.8890	86.7313	86.1966	1.9113e-01	1.9002e+00
21	TAO130224	85.9619	86.5923	86.2181	1.7343e-01	1.9002e+00
22	TAO120312	85.8679	86.6061	86.2265	1.7163e-01	1.9002e+00
23	TAO130312	85.7466	86.3785	86.0581	1.4569e-01	1.9002e+00
24	TRT020000	86.1403	87.0887	86.6123	2.0785e-01	1.9002e+00
25	TRT070000	86.0166	86.7557	86.4138	1.5167e-01	1.9002e+00
26	TRT100000	86.2997	87.1389	86.7023	1.7783e-01	1.9002e+00
27	TRT120000	86.2069	86.7337	86.4178	1.4417e-01	1.9002e+00
28	TRT125000	85.9917	86.8309	86.4189	1.8194e-01	1.9002e+00
29	TRT130000	85.9058	86.5377	86.2383	1.5377e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6194	2.2440e-01	1.9011e+00
31	TAF050136	86.3538	86.9851	86.6356	1.4767e-01	1.9002e+00
32	TAF070136	86.4539	87.2912	86.9180	1.7975e-01	1.9002e+00
33	TAF080136	86.3211	86.8465	86.5274	1.4979e-01	1.9002e+00
34	TAF090136	73.4113	74.5789	74.0097	2.6496e-01	1.9000e+00
35	TAF100136	86.0548	86.7927	86.3921	1.6354e-01	1.9002e+00
36	TAF105136	85.8660	86.7028	86.2766	2.3503e-01	1.9002e+00
37	TAF110136	85.7895	86.9429	86.1792	1.9322e-01	1.9002e+00
38	TAF115136	86.3850	87.1204	86.7089	1.8349e-01	1.9002e+00
39	TAF120136	86.3234	86.8490	86.4964	1.3565e-01	1.9002e+00
40	TAF125136	86.0977	87.2477	86.6577	2.6998e-01	1.9002e+00
41	TAF130136	86.0826	86.8187	86.4191	1.7766e-01	1.9002e+00
42	TAF120048	86.3389	87.2896	86.8718	2.1448e-01	1.9002e+00
43	TAF130048	86.0510	86.6829	86.4214	1.3474e-01	1.9002e+00
44	TAF120224	86.1473	86.7791	86.4588	1.5745e-01	1.9002e+00
45	TAF130224	85.5589	86.1931	85.9307	1.6820e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1170	1.9287e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1786	8.0489e-02	1.9010e+00
48	TAI130048	86.1473	87.3040	86.7029	3.1140e-01	1.9002e+00
49	TAI130136	85.5564	86.3957	85.9642	1.6921e-01	1.9002e+00
50	TAI130224	86.3881	87.6519	87.0242	2.9015e-01	1.9002e+00
51	TAI130312	85.8614	86.5988	86.2614	1.7672e-01	1.9002e+00
52	TRI130000	85.0388	85.8787	85.3579	2.0991e-01	1.9002e+00
53	TSI0000001	80.7090	81.4483	81.0849	1.5551e-01	1.9001e+00
54	TSI0000002	75.4744	76.4280	75.9110	2.7499e-01	1.9000e+00
55	TSO0000001	74.4413	75.2938	74.8890	1.8134e-01	1.9000e+00
56	TSO0000002	75.2035	75.9464	75.5850	2.0452e-01	1.9000e+00
57	TAF020136	85.4149	86.1555	85.7663	1.9400e-01	1.9002e+00
58	TAF120312	85.5938	86.5413	86.1159	2.7717e-01	1.9002e+00
59	TAF130312	85.5097	86.1418	85.7836	1.5773e-01	1.9002e+00
60	EMPTY	0.4688	0.4736	0.4729	1.8082e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4875	1.8082e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5141	2.2146e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3370	6.9053e-04	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3604	1.8950e-03	0.0000e+00
66	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3957	9.6655e-04	0.0000e+00
68	EMPTY	0.4053	0.4150	0.4100	1.3811e-03	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4292	1.4797e-03	0.0000e+00
70	EMPTY	0.4395	0.4443	0.4442	6.9053e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4684	1.3381e-03	0.0000e+00
72	EMPTY	0.4785	0.4834	0.4832	9.6655e-04	0.0000e+00
73	EMPTY	0.4980	0.5078	0.5029	9.8648e-04	0.0000e+00
74	EMPTY	0.5127	0.5176	0.5175	6.9053e-04	0.0000e+00
75	EMPTY	0.5322	0.5420	0.5371	9.8648e-04	0.0000e+00
76	EMPTY	0.5469	0.5518	0.5516	9.6655e-04	0.0000e+00
77	EMPTY	0.5664	0.5713	0.5710	1.1714e-03	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5938	2.3941e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6154	9.6655e-04	0.0000e+00
80	PAN020136	17.4949	19.6312	18.4883	4.8092e-01	8.7123e-01
81	PAN050136	34.2287	35.2968	34.8787	2.3841e-01	1.6823e+00
82	PAN070136	23.1995	24.1151	23.7962	1.9233e-01	8.7203e-01
83	PAN080136	11.7846	12.3950	12.0547	1.1659e-01	8.7052e-01
84	PAN090136	11.1200	11.7304	11.4557	1.2804e-01	8.7047e-01
85	PAN100136	7.4461	7.9802	7.7178	1.1343e-01	8.7021e-01
86	PAN105136	5.0876	5.4690	5.2783	9.7789e-02	8.7010e-01
87	PAN110136	5.5248	6.2878	5.8941	1.4489e-01	8.7012e-01
88	PAN115136	6.6604	7.1181	6.8572	1.0799e-01	8.7017e-01
89	PAN120136	5.9547	6.2599	6.1104	8.0033e-02	8.7013e-01
90	PAN125136	7.6684	8.0499	7.8622	9.2752e-02	8.7022e-01
91	PAN130136	5.3017	5.6832	5.5108	8.5556e-02	8.7011e-01
92	PAN120048	9.0322	9.7188	9.4380	1.5524e-01	8.7032e-01
93	PAN130048	12.1338	12.9731	12.6252	2.0400e-01	8.7057e-01
94	PAN120224	8.6654	9.1995	8.9370	1.3002e-01	8.7029e-01
95	PAN130224	13.1976	13.7316	13.4814	1.1844e-01	8.7065e-01
96	PAN120312	10.8325	11.4428	11.1758	1.1865e-01	8.7045e-01
97	PAN130312	12.8895	13.4236	13.1626	1.1017e-01	8.7062e-01
98	PAB000136	31.0835	31.5870	31.3353	9.7106e-02	5.8527e-01
99	PAB100136	27.2850	27.4681	27.3847	4.5013e-02	5.8403e-01
100	PAB125136	26.0763	26.2594	26.1614	4.3388e-02	5.8368e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	30.9022	31.3905	31.1219	1.1029e-01	7.5402e-01
102	PRV000001	24.3456	24.5897	24.4701	3.0104e-02	7.5249e-01
103	PSR000001	25.1321	25.2542	25.1346	1.7263e-02	7.5263e-01
104	PFH000001	38.6053	39.7955	39.2553	2.8490e-01	5.0954e-01
105	PAN000136	144.4952	150.4461	147.1319	1.3324e+00	4.9337e+00
106	PFH000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0076	2.4484e-03	0.0000e+00
108	EMPTY	-10.0000	1.0205	-4.2799	3.6545e+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	0.0013	2.1635e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0219	9.7377e-02	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0405	1.1161e-01	8.1000e-01
114	VPW000003	-0.2817	0.1089	0.0191	1.0595e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0057	1.2200e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0102	9.6735e-02	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.0407	1.0507e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.3079	1.0620e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.3017	1.3217e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4530	9.6178e-01	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1660	2.4878e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0770	2.8332e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0612	3.3901e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0192	3.9961e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0131	2.8659e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0160	2.9660e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0155	3.3728e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0333	8.2864e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0200	9.1354e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0041	8.7880e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	0.0232	9.7377e-02	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0539	1.0014e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0050	1.0145e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0162	8.2393e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0368	9.6655e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0077	6.2265e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0254	9.5765e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0365	9.4702e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0386	9.4702e-02	4.1000e+00
140	IHT000013	-0.3531	0.2329	-0.0132	1.0297e-01	4.1000e+00
141	IHT000014	-0.2592	0.1314	0.0533	1.0440e-01	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0159	6.4113e-02	4.1000e+00
143	IHT000016	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
144	IHT000017	-0.6536	0.7136	-0.0207	3.2910e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0149	1.2627e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1531	8.4997e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0472	1.0654e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0104	9.5765e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	0.0194	9.7377e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0278	8.8233e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0336	6.2265e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0137	8.5454e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	-0.0006	7.7324e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0278	8.8233e-02	4.1000e+00
155	IHT000028	-0.1803	0.4056	0.0111	1.3375e-01	4.1000e+00

Test: Jul31_06 suml Date: Tue Jul 31 11:13:14 1990 Page: 4

#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.3493	0.0056	1.0106e-01	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0349	1.1844e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0449	1.1995e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0213	1.0885e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0210	9.8648e-02	4.1000e+00
161	IHT000034	-0.1765	0.4094	0.0344	1.2378e-01	4.1000e+00
162	IHT000035	-0.4169	0.3643	0.0323	1.2633e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0389	1.0763e-01	4.1000e+00

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Velocity 1 - 14.0191 (ft/sec) (+/- 1.8663 %)
 Velocity 2 - 13.4251 (ft/sec) (+/- 1.7032 %)
 Pressure drop - 3.0482 (psi)
 Tstat in - 248.0139 (deg F) Tstat out - 241.7041 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 3631.1721 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 5309.6533 %)
 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	73.8393	74.4796	74.1680	2.0320e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	73.9769	1.4838e-01	1.9000e+00
2	TFH0000001	86.2131	87.0535	86.5938	1.9110e-01	1.9002e+00
3	TIN0000001	85.4192	86.2628	85.7042	1.5102e-01	1.9002e+00
4	TRV0000001	85.7956	86.5313	86.1929	1.9570e-01	1.9002e+00
5	TSR0000001	85.9022	86.6379	86.2785	1.7524e-01	1.9002e+00
6	TAO020136	79.9475	80.9006	80.3352	2.3402e-01	1.9001e+00
7	TAO050136	85.8693	86.5006	86.1408	1.7521e-01	1.9002e+00
8	TAO070136	85.8741	87.0355	86.2227	2.1766e-01	1.9002e+00
9	TAO080136	85.6677	86.2972	86.0132	1.8032e-01	1.9002e+00
10	TAO090136	86.3379	87.1793	86.7103	2.2987e-01	1.9002e+00
11	TAO100136	85.6907	86.4272	86.0167	1.6515e-01	1.9002e+00
12	TAO105136	86.5079	87.4552	87.0322	2.1327e-01	1.9002e+00
13	TAO110136	85.9707	86.8095	86.4418	1.9437e-01	1.9002e+00
14	TAO115136	86.2242	87.0675	86.6439	2.0686e-01	1.9002e+00
15	TAO120136	85.8444	86.4763	86.1328	1.4562e-01	1.9002e+00
16	TAO125136	86.2750	87.3257	86.8442	1.7790e-01	1.9002e+00
17	TAO130136	85.7226	86.3520	86.0221	1.5836e-01	1.9002e+00
18	TAO120048	73.4959	74.1346	73.7410	1.8520e-01	1.9000e+00
19	TAO130048	85.5743	86.2061	85.9131	1.5222e-01	1.9002e+00
20	TAO120224	85.8890	86.6262	86.2450	1.7660e-01	1.9002e+00
21	TAO130224	85.9619	86.6953	86.2371	1.8581e-01	1.9002e+00
22	TAO120312	85.8685	86.7112	86.3087	1.9932e-01	1.9002e+00
23	TAO130312	85.7466	86.3785	86.0939	1.4786e-01	1.9002e+00
24	TRT020000	86.2450	86.9837	86.6397	2.2822e-01	1.9002e+00
25	TRT070000	86.2277	86.8613	86.4582	1.5630e-01	1.9002e+00
26	TRT100000	86.2992	87.1395	86.7339	2.0360e-01	1.9002e+00
27	TRT120000	86.2069	86.8388	86.4620	1.7800e-01	1.9002e+00
28	TRT125000	85.9917	86.8309	86.4922	1.9556e-01	1.9002e+00
29	TRT130000	86.1156	86.6418	86.2951	1.5376e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6194	2.1458e-01	1.9011e+00
31	TAF050136	86.3543	87.0892	86.6839	1.7248e-01	1.9002e+00
32	TAF070136	86.5572	87.3968	86.9830	2.2262e-01	1.9002e+00
33	TAF080136	86.2183	86.9516	86.5588	1.9057e-01	1.9002e+00
34	TAF090136	73.7296	74.6851	74.2366	2.3990e-01	1.9000e+00
35	TAF100136	86.1599	86.7927	86.4406	2.0382e-01	1.9002e+00
36	TAF105136	85.8665	86.8084	86.3248	2.4366e-01	1.9002e+00
37	TAF110136	85.8932	86.7338	86.2191	1.9476e-01	1.9002e+00
38	TAF115136	86.3850	87.2260	86.8284	2.1350e-01	1.9002e+00
39	TAF120136	86.3240	86.9546	86.5991	1.6294e-01	1.9002e+00
40	TAF125136	86.0977	87.1444	86.6559	2.6848e-01	1.9002e+00
41	TAF130136	86.0826	86.7142	86.4507	1.5072e-01	1.9002e+00
42	TAF120048	86.3394	87.3952	86.8992	2.2002e-01	1.9002e+00
43	TAF130048	86.0516	86.8927	86.4655	1.8091e-01	1.9002e+00
44	TAF120224	86.1473	86.9887	86.5113	2.0280e-01	1.9002e+00
45	TAF130224	85.6651	86.4036	85.9920	1.7085e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1216	2.0359e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1878	8.9118e-02	1.9010e+00
48	TAI130048	86.1479	87.4096	86.7471	3.0343e-01	1.9002e+00
49	TAI130136	85.6616	86.5019	86.0083	1.9258e-01	1.9002e+00
50	TAI130224	86.5983	87.6519	87.1064	2.7716e-01	1.9002e+00
51	TAI130312	85.8614	86.8092	86.3352	2.1303e-01	1.9002e+00
52	TRR130000	84.9330	85.9844	85.3978	2.4207e-01	1.9002e+00
53	TSI0000001	80.7090	81.3434	80.9608	1.6658e-01	1.9001e+00
54	TSI0000002	75.5810	76.6392	76.0823	2.5732e-01	1.9000e+00
55	TSO0000001	74.8672	75.5065	75.1340	1.9025e-01	1.9000e+00
56	TSO0000002	75.3084	76.3703	75.7611	2.4150e-01	1.9000e+00
57	TAF020136	85.4154	86.2606	85.8530	1.9099e-01	1.9002e+00
58	TAF120312	85.5938	86.6464	86.1181	2.7244e-01	1.9002e+00
59	TAF130312	85.5097	86.1418	85.7984	1.3921e-01	1.9002e+00
60	EMPTY	0.4688	0.4785	0.4732	1.6624e-03	0.0000e+00
61	EMPTY	0.4834	0.4883	0.4876	1.7115e-03	0.0000e+00
62	EMPTY	0.4980	0.5029	0.5006	2.4642e-03	0.0000e+00
63	EMPTY	0.5127	0.5176	0.5169	1.7115e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3377	1.8082e-03	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3608	1.4797e-03	0.0000e+00
66	EMPTY	0.3711	0.3809	0.3760	9.8648e-04	0.0000e+00
67	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
68	EMPTY	0.4102	0.4150	0.4103	6.9053e-04	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4295	9.6655e-04	0.0000e+00
70	EMPTY	0.4443	0.4443	0.4443	0.0000e+00	0.0000e+00
71	EMPTY	0.4688	0.4736	0.4688	6.9053e-04	0.0000e+00
72	EMPTY	0.4834	0.4834	0.4834	0.0000e+00	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5030	6.9053e-04	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5185	1.8950e-03	0.0000e+00
75	EMPTY	0.5371	0.5420	0.5374	1.7114e-03	0.0000e+00
76	EMPTY	0.5518	0.5566	0.5519	6.9053e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5718	1.4797e-03	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5954	1.7114e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6195	1.6028e-03	0.0000e+00
80	PAN020136	10.2470	11.5440	10.8726	3.0866e-01	8.7042e-01
81	PAN050136	19.5802	20.4957	19.9464	2.5044e-01	1.6807e+00
82	PAN070136	13.0524	13.6628	13.4141	1.4929e-01	8.7065e-01
83	PAN080136	6.4440	6.9781	6.6775	1.2655e-01	8.7016e-01
84	PAN090136	6.8476	7.3816	7.0459	1.1535e-01	8.7018e-01
85	PAN100136	3.4789	3.9366	3.7413	1.0917e-01	8.7005e-01
86	PAN105136	2.6461	3.1039	2.9025	9.4716e-02	8.7003e-01
87	PAN110136	3.3123	3.8464	3.5885	1.0212e-01	8.7005e-01
88	PAN115136	3.6086	3.9901	3.8344	1.0103e-01	8.7005e-01
89	PAN120136	3.8185	4.0474	3.9253	6.7187e-02	8.7006e-01
90	PAN125136	4.3878	4.7693	4.5404	8.4424e-02	8.7007e-01
91	PAN130136	2.8603	3.1655	3.0327	6.1288e-02	8.7003e-01
92	PAN120048	4.8360	5.2938	5.0801	1.2038e-01	8.7009e-01
93	PAN130048	7.2510	7.8614	7.5775	1.4214e-01	8.7021e-01
94	PAN120224	4.2404	4.6982	4.4708	1.0622e-01	8.7007e-01
95	PAN130224	7.2467	7.7044	7.5320	1.0878e-01	8.7020e-01
96	PAN120312	6.2548	6.7889	6.5371	1.2451e-01	8.7015e-01
97	PAN130312	7.3200	7.7778	7.6420	1.1667e-01	8.7021e-01
98	PAB000136	28.6574	28.9320	28.7645	6.5793e-02	5.8444e-01
99	PAB100136	26.4610	26.5983	26.5260	4.4440e-02	5.8378e-01
100	PAB125136	25.7101	25.8474	25.7650	4.2381e-02	5.8357e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	28.3387	28.7049	28.5414	1.0639e-01	7.5339e-01
102	PRV000001	24.3456	24.5897	24.4970	5.8152e-02	7.5250e-01
103	PSR000001	25.0100	25.1321	25.1248	2.9284e-02	7.5263e-01
104	PFH000001	29.5416	30.6402	30.1294	2.5569e-01	5.0564e-01
105	PAN000136	82.2393	86.8170	84.3908	1.2102e+00	4.9245e+00
106	PFH000002	27.6137	27.6137	27.6137	1.3487e-05	2.1158e-01
107	EMPTY	0.0049	0.0098	0.0061	2.1065e-03	0.0000e+00
108	EMPTY	-10.0000	0.9131	-4.6579	3.6409e+00	0.0000e+00
109	EMPTY	0.0000	0.0195	0.0051	2.1970e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0049	0.0007	1.7115e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	-0.0015	9.0412e-02	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0562	9.8569e-02	8.1000e-01
114	VPW000003	-0.0864	0.1089	0.0269	9.7377e-02	8.1000e-01
115	VPW000004	-0.2479	0.1427	0.0021	1.1189e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0532	1.1049e-01	8.1000e-01
117	VPW000006	-0.2366	0.1540	0.0407	1.0507e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.1517	1.2151e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	0.1066	1.1213e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.4530	1.1115e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1855	2.5420e-01	2.0000e+00
122	IPW000005	-0.4601	1.0046	0.1062	3.1749e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0515	3.2057e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0203	3.8662e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0132	2.4662e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0169	2.8266e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0151	3.3087e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0177	7.9017e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0239	8.5454e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0233	8.1347e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	0.0192	9.7935e-02	4.1000e+00
132	IHT000005	-0.0789	0.1164	0.0422	9.5765e-02	4.1000e+00
133	IHT000006	-0.1239	0.2667	-0.0185	1.0595e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0006	8.6810e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0485	9.8332e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0119	7.7324e-02	4.1000e+00
137	IHT000010	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	-0.0026	7.2330e-02	4.1000e+00
139	IHT000012	-0.2817	0.1089	-0.0043	1.0507e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0249	1.0014e-01	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0416	1.0595e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	-0.0075	6.8345e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	-0.0092	8.8585e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	-0.1301	2.6599e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0149	1.1327e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1297	1.0849e-01	4.1000e+00
147	IHT000020	-0.1052	0.0902	0.0042	9.7935e-02	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0416	9.8332e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0080	9.7935e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0004	7.2866e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0571	9.0412e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0215	6.8459e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0189	6.2265e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0083	8.1347e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	0.0033	1.2104e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	0.0016	9.0756e-02	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0075	1.0440e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0644	1.2534e-01	4.1000e+00
159	IHT000032	-0.2404	0.1502	0.0135	9.8648e-02	4.1000e+00
160	IHT000033	-0.2329	0.3531	0.0093	1.0849e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0149	9.2456e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0011	1.1168e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0467	1.0470e-01	4.1000e+00

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Velocity 1 - 12.0548 (ft/sec) (+/- 2.0148 %)
 Velocity 2 - 11.9100 (ft/sec) (+/- 1.7224 %)
 Pressure drop - 1.0502 (psi)
 Tsat in - 243.4324 (deg F) Tsat out - 241.1102 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 3098.1414 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 4158.2124 %)
 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	73.8393	74.4796	74.1680	2.0320e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	73.9897	1.4543e-01	1.9000e+00
2	TFN000001	86.3183	87.2646	86.7471	2.2968e-01	1.9002e+00
3	TIN000001	85.4197	86.2628	85.8538	1.9478e-01	1.9002e+00
4	TRV000001	85.9014	87.0548	86.3415	2.2439e-01	1.9002e+00
5	TSR000001	86.0064	86.5337	86.2973	1.3223e-01	1.9002e+00
6	TAO020136	79.8413	80.7945	80.3203	2.4699e-01	1.9001e+00
7	TAO050136	85.8693	86.7098	86.3145	1.9757e-01	1.9002e+00
8	TAO070136	85.9802	86.9295	86.4317	2.2459e-01	1.9002e+00
9	TAO080136	85.8750	86.7146	86.2328	1.8748e-01	1.9002e+00
10	TAO090136	86.3379	87.2834	86.8718	2.0898e-01	1.9002e+00
11	TAO100136	85.9002	86.5323	86.1911	1.7224e-01	1.9002e+00
12	TAO105136	86.7185	87.6657	87.2069	2.1876e-01	1.9002e+00
13	TAO110136	86.2824	86.9127	86.5856	1.7449e-01	1.9002e+00
14	TAO115136	86.3296	87.2774	86.7807	2.5358e-01	1.9002e+00
15	TAO120136	85.9490	86.6864	86.2400	1.6839e-01	1.9002e+00
16	TAO125136	86.5890	87.3257	87.0099	1.5771e-01	1.9002e+00
17	TAO130136	85.8247	86.4540	86.2107	1.7263e-01	1.9002e+00
18	TAO130048	73.3897	74.0284	73.7134	1.6926e-01	1.9000e+00
19	TAO130048	85.7839	86.4155	86.0660	1.6801e-01	1.9002e+00
20	TAO120224	86.0991	86.7313	86.3984	1.5971e-01	1.9002e+00
21	TAO130224	86.0650	86.8004	86.4224	1.6700e-01	1.9002e+00
22	TAO120312	85.9734	86.9217	86.4666	1.7483e-01	1.9002e+00
23	TAO130312	85.8512	86.5881	86.2093	1.6476e-01	1.9002e+00
24	TRO200000	86.3508	87.4052	86.8526	2.6648e-01	1.9002e+00
25	TRO700000	86.2277	87.0728	86.6549	2.1959e-01	1.9002e+00
26	TRO100000	86.5098	87.2445	86.9078	1.6438e-01	1.9002e+00
27	TRO200000	86.3117	86.9436	86.6152	1.5871e-01	1.9002e+00
28	TRO125000	86.2001	87.0397	86.6447	1.7821e-01	1.9002e+00
29	TRO130000	86.0104	86.7474	86.4230	1.7123e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6286	2.2361e-01	1.9011e+00
31	TAP050136	86.5631	87.1943	86.8367	1.4255e-01	1.9002e+00
32	TAP070136	86.5572	87.6056	87.1689	2.3337e-01	1.9002e+00
33	TAP080136	86.4245	87.1600	86.7403	1.8256e-01	1.9002e+00
34	TAP090136	73.6228	74.8960	74.2684	2.7104e-01	1.9000e+00
35	TAP100136	86.1605	87.1088	86.6071	1.9810e-01	1.9002e+00
36	TAP105136	86.0745	87.1219	86.5354	2.3157e-01	1.9002e+00
37	TAP110136	85.9973	86.8373	86.3761	1.9344e-01	1.9002e+00
38	TAP115136	86.2816	87.3304	86.9856	2.2258e-01	1.9002e+00
39	TAP120136	86.4275	87.1637	86.7309	1.6955e-01	1.9002e+00
40	TAP125136	86.3057	87.5610	86.8789	2.8413e-01	1.9002e+00
41	TAP130136	86.2922	87.0281	86.6246	1.9276e-01	1.9002e+00
42	TAP130048	86.7617	87.5010	87.1381	1.8494e-01	1.9002e+00
43	TAP130048	86.2609	87.1024	86.6313	2.1056e-01	1.9002e+00
44	TAP120224	86.2519	87.1973	86.6896	1.9269e-01	1.9002e+00
45	TAP130224	85.6649	86.6147	86.1418	2.2983e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1583	1.8724e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2245	1.0988e-01	1.9010e+00
48	TAP130048	86.4632	87.5140	86.9761	2.8777e-01	1.9002e+00
49	TAP130136	85.8717	86.6070	86.2157	1.9915e-01	1.9002e+00
50	TAP130224	86.5988	87.8624	87.2390	3.3626e-01	1.9002e+00
51	TAP130312	86.0714	87.1246	86.5014	2.3864e-01	1.9002e+00
52	TRO130000	84.9330	85.9844	85.4712	2.5539e-01	1.9002e+00
53	TSI000001	80.3928	81.1330	80.8661	1.4998e-01	1.9001e+00
54	TSI000002	75.4744	76.7451	76.0633	3.1376e-01	1.9000e+00
55	TSO000001	74.8681	75.6129	75.2682	1.8816e-01	1.9000e+00
56	TSO000002	75.4145	76.3703	75.8904	2.0037e-01	1.9000e+00
57	TAP020136	85.6267	86.4723	86.0499	1.8112e-01	1.9002e+00
58	TAP120312	85.8040	86.7513	86.2841	2.6207e-01	1.9002e+00
59	TAP130312	85.6144	86.3517	85.9600	1.6480e-01	1.9002e+00
60	EMPTY	0.4736	0.4785	0.4764	2.4484e-03	0.0000e+00
61	EMPTY	0.4883	0.4980	0.4914	2.5648e-03	0.0000e+00
62	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
63	EMPTY	0.5176	0.5225	0.5185	1.8950e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3370	6.9053e-04	0.0000e+00
65	EMPTY	0.3564	0.3613	0.3604	1.9730e-03	0.0000e+00
66	EMPTY	0.3760	0.3760	0.3760	0.0000e+00	0.0000e+00
67	EMPTY	0.3955	0.3955	0.3955	0.0000e+00	0.0000e+00
68	EMPTY	0.4053	0.4102	0.4100	9.6655e-04	0.0000e+00
69	EMPTY	0.4248	0.4297	0.4292	1.4797e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4445	9.6655e-04	0.0000e+00
71	EMPTY	0.4639	0.4688	0.4684	1.3381e-03	0.0000e+00
72	EMPTY	0.4785	0.4833	0.4833	1.2041e-03	0.0000e+00
73	EMPTY	0.5029	0.5029	0.5029	0.0000e+00	0.0000e+00
74	EMPTY	0.5176	0.5225	0.5178	9.6655e-04	0.0000e+00
75	EMPTY	0.5322	0.5371	0.5370	6.9053e-04	0.0000e+00
76	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
77	EMPTY	0.5644	0.5713	0.5712	6.9053e-04	0.0000e+00
78	EMPTY	0.5908	0.5957	0.5949	1.8082e-03	0.0000e+00
79	EMPTY	0.6152	0.6201	0.6169	2.3365e-03	0.0000e+00
80	PAN020136	3.6857	4.3724	3.9436	1.5711e-01	8.7006e-01
81	PAN050136	6.4577	7.5258	6.8910	2.1215e-01	1.6801e+00
82	PAN070136	4.1261	4.8127	4.4434	1.3202e-01	8.7007e-01
83	PAN080136	1.8664	2.1716	2.0297	8.3020e-02	8.7001e-01
84	PAN090136	2.5751	2.8803	2.7201	8.1925e-02	8.7003e-01
85	PAN100136	-0.0307	0.3508	0.1540	8.3134e-02	8.7000e-01
86	PAN105136	0.8151	1.0440	0.9097	6.2725e-02	8.7000e-01
87	PAN110136	1.1761	1.4813	1.3226	8.1328e-02	8.7001e-01
88	PAN115136	1.2435	1.6250	1.4739	8.3704e-02	8.7001e-01
89	PAN120136	1.6060	1.8349	1.6792	6.3478e-02	8.7001e-01
90	PAN125136	1.5649	1.9464	1.7221	8.6386e-02	8.7001e-01
91	PAN130136	0.8004	1.0293	0.9362	6.7988e-02	8.7000e-01
92	PAN120048	0.7924	1.1739	1.0152	9.3555e-02	8.7000e-01
93	PAN130048	2.7497	3.2074	2.9969	9.5714e-02	8.7003e-01
94	PAN120224	0.4257	0.8835	0.6454	9.3301e-02	8.7000e-01
95	PAN130224	2.4401	2.7453	2.6324	8.0447e-02	8.7002e-01
96	PAN120312	2.1350	2.5164	2.3043	1.0258e-01	8.7002e-01
97	PAN130312	2.5898	2.9713	2.8080	8.4438e-02	8.7003e-01
98	PAB000136	26.4601	26.6890	26.5590	6.0192e-02	5.8379e-01
99	PAB100136	25.7286	25.9117	25.8192	4.8489e-02	5.8358e-01
100	PAB125136	25.4354	25.5728	25.4968	4.2992e-02	5.8349e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	26.2635	26.5077	26.3636	6.8390e-02	7.5289e-01
102	PIN0000001	24.4677	24.5097	24.5165	6.0409e-02	7.5250e-01
103	PIN0000001	25.1321	25.2542	25.1394	2.9204e-02	7.5263e-01
104	PIN0000001	21.8512	22.5036	22.2283	1.5506e-01	5.3008e-01
105	PIN0000001	26.8499	30.9658	29.0746	9.0145e-01	4.9205e+00
106	PIN0000002	21.0696	21.9925	21.6335	1.8305e-01	2.0722e-01
107	ENPTT	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	ENPTT	-10.0000	1.0040	-3.0148	3.0057e+00	0.0000e+00
109	ENPTT	-0.0049	0.0049	0.0043	2.1249e-03	0.0000e+00
110	ENPTT	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	ENPTT	0.0000	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VPIN0000001	-0.0601	0.3305	0.0415	1.1327e-01	8.1000e-01
113	VPIN0000002	-0.0376	0.1577	0.0562	9.8569e-02	8.1000e-01
114	VPIN0000003	-0.0864	0.1089	0.0073	9.8569e-02	8.1000e-01
115	VPIN0000004	-0.1577	0.3329	0.0337	1.1697e-01	8.1000e-01
116	VPIN0000005	-0.0413	0.3493	0.0837	1.0259e-01	8.1000e-01
117	VPIN0000006	-1.8397	4.0173	0.4641	1.1627e+00	8.1000e+00
118	VPIN0000007	-2.6642	3.1896	0.0285	1.3099e+00	8.1000e+00
119	VPIN0000008	-1.5750	4.2750	0.2970	1.3042e+00	8.1000e+00
120	VPIN0000009	-0.2441	0.7324	0.1562	2.5515e-01	2.0000e+00
121	VPIN0000010	-0.4601	0.5164	0.1551	2.9277e-01	2.0000e+00
122	VPIN0000011	-0.5540	0.9109	0.1491	4.2030e-01	2.0000e+00
123	VPIN0000012	-0.0244	-0.0146	-0.0195	3.6911e-03	0.0000e+00
124	ENPTT	-0.0195	-0.0098	-0.0133	2.6174e-03	0.0000e+00
125	ENPTT	-0.0195	-0.0098	-0.0161	3.3087e-03	0.0000e+00
126	ENPTT	-0.0244	-0.0098	-0.0154	3.4601e-03	0.0000e+00
127	ENPTT	-0.1503	0.2404	0.0099	9.4125e-02	4.1000e+00
128	INPT0000001	-0.2066	0.1040	-0.0035	6.7000e-02	4.1000e+00
129	INPT0000002	-0.1991	0.1052	-0.0077	7.7716e-02	4.1000e+00
130	INPT0000003	-0.0901	0.1052	-0.0042	9.7935e-02	4.1000e+00
131	INPT0000004	-0.0789	0.1164	0.0188	9.8448e-02	4.1000e+00
132	INPT0000005	-0.3193	0.0714	-0.0185	1.0595e-01	4.1000e+00
133	INPT0000006	-0.2104	0.1803	0.0094	7.5283e-02	4.1000e+00
134	INPT0000007	-0.0413	0.1540	0.0095	8.6541e-02	4.1000e+00
135	INPT0000008	-0.1916	0.1991	-0.0158	7.1136e-02	4.1000e+00
136	INPT0000009	-0.0488	0.1465	0.0215	9.4702e-02	4.1000e+00
137	INPT0000010	-0.0338	0.3568	0.0209	9.6976e-02	4.1000e+00
138	INPT0000011	-0.0864	0.3042	0.0152	1.0617e-01	4.1000e+00
139	INPT0000012	-0.1578	0.2329	-0.0093	1.0949e-01	4.1000e+00
140	INPT0000013	-0.0639	0.3268	0.0299	1.0617e-01	4.1000e+00
141	INPT0000014	-0.2628	0.1878	-0.0036	7.3716e-02	4.1000e+00
142	INPT0000015	-0.2592	0.3268	0.0182	1.1223e-01	4.1000e+00
143	INPT0000016	-0.4582	0.5183	0.0144	2.5600e-01	4.1000e+00
144	INPT0000017	-0.3117	0.2742	-0.0031	1.2534e-01	4.1000e+00
145	INPT0000018	-0.3718	0.0188	-0.1961	9.0412e-02	4.1000e+00
146	INPT0000019	-0.1052	0.2855	0.0237	1.0065e-01	4.1000e+00
147	INPT0000020	-0.0638	0.1315	0.0026	9.3461e-02	4.1000e+00
148	INPT0000021	-0.0939	0.2967	-0.0314	1.0014e-01	4.1000e+00
149	INPT0000022	-0.2066	0.1840	0.0082	7.1136e-02	4.1000e+00
150	INPT0000023	-0.1578	0.2329	0.0454	8.7880e-02	4.1000e+00
151	INPT0000024	-0.2442	0.1465	-0.0215	8.8321e-02	4.1000e+00
152	INPT0000025	-0.1803	0.2104	0.0072	6.7888e-02	4.1000e+00
153	INPT0000026	-0.0113	0.1840	0.0161	6.8459e-02	4.1000e+00
154	INPT0000027	-0.1803	0.2103	-0.0006	1.1049e-01	4.1000e+00
155	INPT0000028					

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#	Name	Min	Max	Ave	SD	Uncert
156	INPT0000029	-0.2366	0.1540	-0.0140	7.9017e-02	4.1000e+00
157	INPT0000030	-0.1878	0.2028	0.0153	8.7880e-02	4.1000e+00
158	INPT0000031	-0.2442	0.3418	0.0254	1.2409e-01	4.1000e+00
159	INPT0000032	-0.0451	0.1502	-0.0138	7.2330e-02	4.1000e+00
160	INPT0000033	-0.2329	0.1578	-0.0063	8.2393e-02	4.1000e+00
161	INPT0000034	-0.1765	0.2141	0.0149	8.3612e-02	4.1000e+00
162	INPT0000035	-0.2216	0.1690	0.0206	1.0106e-01	4.1000e+00
163	INPT0000036	-0.0939	0.2967	0.0037	1.1334e-01	4.1000e+00

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Velocity 1 - 10.0212 (ft/sec) (+/- 2.3367 %)
 Velocity 2 - 9.9506 (ft/sec) (+/- 1.7748 %)
 Pressure drop - -0.7484 (psi)
 Tsat in - 238.9376 (deg F) Tsat out - 240.4906 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 5368.3350 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 2693.6931 %)
 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	TRP000001	73.8393	74.4796	74.1125	1.7800e-01	1.9000e+00
1	TRP000002	73.7731	74.1978	73.9302	1.4745e-01	1.9000e+00
2	TRP000001	86.5277	87.3690	86.9380	1.9615e-01	1.9002e+00
3	TIM000001	85.7355	86.3678	86.0497	1.6426e-01	1.9002e+00
4	TRV000001	86.2143	86.9492	86.4604	1.8052e-01	1.9002e+00
5	TSR000001	86.0064	86.6379	86.3451	1.7548e-01	1.9002e+00
6	TAO020136	79.7356	80.5833	80.2250	2.1382e-01	1.9001e+00
7	TAO050136	86.1826	86.9167	86.4751	1.5920e-01	1.9002e+00
8	TAO070136	86.1913	86.8245	86.5479	1.8070e-01	1.9002e+00
9	TAO080136	86.0840	86.9235	86.4350	1.9734e-01	1.9002e+00
10	TAO090136	86.6523	87.4930	87.0247	1.8773e-01	1.9002e+00
11	TAO100136	86.0050	86.6365	86.2979	1.5376e-01	1.9002e+00
12	TAO105136	87.0340	87.8761	87.3857	2.1335e-01	1.9002e+00
13	TAO110136	86.2824	87.1204	86.7620	1.9063e-01	1.9002e+00
14	TAO115136	86.5402	87.4878	86.8922	2.3743e-01	1.9002e+00
15	TAO120136	86.1592	86.7910	86.3723	1.4359e-01	1.9002e+00
16	TAO125136	86.7988	87.4304	87.1208	1.6098e-01	1.9002e+00
17	TAO130136	86.0319	86.6611	86.3195	1.6085e-01	1.9002e+00
18	TAO120048	73.6020	74.2407	73.9319	1.8638e-01	1.9000e+00
19	TAO130048	85.8882	86.5193	86.1977	1.6917e-01	1.9002e+00
20	TAO120224	86.3092	86.8362	86.5642	1.6068e-01	1.9002e+00
21	TAO130224	86.1707	86.9029	86.5570	1.8849e-01	1.9002e+00
22	TAO120312	86.1840	87.0271	86.6286	1.9772e-01	1.9002e+00
23	TAO130312	86.0609	86.6926	86.3704	1.8207e-01	1.9002e+00
24	TAT020000	86.5617	87.4047	86.9813	2.3277e-01	1.9002e+00
25	TAT070000	86.4399	87.1793	86.8095	1.9919e-01	1.9002e+00
26	TAT100000	86.6131	87.4527	87.0394	1.5796e-01	1.9002e+00
27	TAT120000	86.5216	87.1529	86.7682	1.3890e-01	1.9002e+00
28	TAT125000	86.3038	87.1433	86.7966	2.0019e-01	1.9002e+00
29	TAT130000	86.3253	86.8520	86.5927	1.6761e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6332	2.0553e-01	1.9011e+00
31	TAP050136	86.5637	87.2979	87.0058	1.7531e-01	1.9002e+00
32	TAP070136	86.8699	87.8125	87.2749	2.1067e-01	1.9002e+00
33	TAP080136	86.6330	87.2628	86.8960	1.4566e-01	1.9002e+00
34	TAP090136	73.7287	75.0027	74.3890	2.9883e-01	1.9000e+00
35	TAP100136	86.3712	87.3189	86.7861	1.8723e-01	1.9002e+00
36	TAP105136	86.1779	87.2246	86.6744	2.4420e-01	1.9002e+00
37	TAP110136	86.2066	87.0470	86.5619	1.9660e-01	1.9002e+00
38	TAP115136	86.6990	87.5398	87.1298	2.1346e-01	1.9002e+00
39	TAP120136	86.6367	87.0587	86.8748	1.2005e-01	1.9002e+00
40	TAP125136	86.6203	87.4554	87.0471	1.9478e-01	1.9002e+00
41	TAP130136	86.3966	87.2376	86.7856	1.7414e-01	1.9002e+00
42	TAP120048	86.6568	87.6074	87.1700	2.2069e-01	1.9002e+00
43	TAP130048	86.3656	87.2065	86.8051	2.1093e-01	1.9002e+00
44	TAP120224	86.3570	87.1973	86.8214	1.9115e-01	1.9002e+00
45	TAP130224	85.9818	86.7198	86.3002	1.8264e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.0986	2.0312e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2475	1.1514e-01	1.9010e+00
48	TAP130048	86.3575	87.7239	87.0746	3.4279e-01	1.9002e+00
49	TAP130136	85.8703	86.7113	86.2970	1.7927e-01	1.9002e+00
50	TAP130224	86.7039	87.9674	87.3843	3.2831e-01	1.9002e+00
51	TAP130312	86.1768	87.1243	86.6381	2.3479e-01	1.9002e+00
52	TAP130000	85.0375	86.0883	85.5736	2.4500e-01	1.9002e+00
53	TSI000001	80.3928	81.0274	80.7163	1.8035e-01	1.9001e+00
54	TSI000002	75.5797	76.7439	76.1665	2.9793e-01	1.9000e+00
55	TSO000001	74.9745	75.8258	75.4025	1.9415e-01	1.9000e+00
56	TSO000002	75.6266	76.2644	75.9603	1.8580e-01	1.9000e+00
57	TAP020136	85.7333	86.5782	86.1962	1.8586e-01	1.9002e+00
58	TAP120312	86.0142	86.9608	86.4877	2.6800e-01	1.9002e+00
59	TAP130312	85.8243	86.4563	86.1633	1.6512e-01	1.9002e+00
60	EMPTY	0.4785	0.4834	0.4823	2.0412e-03	0.0000e+00
61	EMPTY	0.4932	0.4980	0.4977	1.3381e-03	0.0000e+00
62	EMPTY	0.5078	0.5127	0.5100	2.4484e-03	0.0000e+00
63	EMPTY	0.5225	0.5273	0.5264	1.9730e-03	0.0000e+00
64	EMPTY	0.3369	0.3418	0.3417	6.9053e-04	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3620	1.7115e-03	0.0000e+00
66	EMPTY	0.3760	0.3857	0.3807	1.3811e-03	0.0000e+00
67	EMPTY	0.3955	0.4004	0.4001	1.1714e-03	0.0000e+00
68	EMPTY	0.4102	0.4199	0.4147	1.5314e-03	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4317	2.4344e-03	0.0000e+00
70	EMPTY	0.4443	0.4492	0.4466	1.6028e-03	0.0000e+00
71	EMPTY	0.4639	0.4736	0.4730	1.8821e-03	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4860	2.4583e-03	0.0000e+00
73	EMPTY	0.5029	0.5078	0.5076	9.6655e-04	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5226	6.9053e-04	0.0000e+00
75	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5567	6.9053e-04	0.0000e+00
77	EMPTY	0.5713	0.5762	0.5761	6.9053e-04	0.0000e+00
78	EMPTY	0.5957	0.6006	0.5999	1.7115e-03	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6232	2.3675e-03	0.0000e+00
80	PAN020136	-2.4941	-2.1889	-2.3506	8.2489e-02	8.7002e-01
81	PAN050136	-5.1390	-4.5287	-4.8766	1.4472e-01	1.6800e+00
82	PAN070136	-3.5796	-3.2745	-3.4423	0.5820e-02	8.7004e-01
83	PAN080136	-2.0246	-1.7194	-1.8659	7.0365e-02	8.7001e-01
84	PAN090136	-1.5448	-1.2396	-1.4319	6.7610e-02	8.7001e-01
85	PAN100136	-3.3876	-3.0061	-3.1740	8.9877e-02	8.7004e-01
86	PAN105136	-1.0160	-0.8634	-0.9061	4.6650e-02	8.7000e-01
87	PAN110136	-0.8076	-0.5024	-0.6412	6.4829e-02	8.7000e-01
88	PAN115136	-0.6639	-0.3587	-0.5464	6.7557e-02	8.7000e-01
89	PAN120136	-0.5302	-0.3014	-0.4021	5.6508e-02	8.7000e-01
90	PAN125136	-0.4950	-0.3424	-0.4035	5.9697e-02	8.7000e-01
91	PAN130136	-1.0307	-0.7255	-0.8796	6.9771e-02	8.7000e-01
92	PAN120048	-2.7934	-2.5645	-2.6973	5.7280e-02	8.7003e-01
93	PAN130048	-1.2939	-0.9887	-1.1352	8.1328e-02	8.7000e-01
94	PAN120224	-3.0075	-2.7787	-2.8931	4.6879e-02	8.7003e-01
95	PAN130224	-1.5271	-1.2220	-1.3746	7.5511e-02	8.7001e-01
96	PAN120312	-1.8323	-1.4509	-1.6080	8.2157e-02	8.7001e-01
97	PAN130312	-1.5301	-1.2249	-1.3454	8.4551e-02	8.7001e-01
98	PAB000136	24.4459	24.6290	24.5347	4.1781e-02	5.8323e-01
99	PAB100136	25.0877	25.2250	25.1710	3.9982e-02	5.8340e-01
100	PAB125136	25.1608	25.2523	25.2194	2.6223e-02	5.8342e-01

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I	Name	Min	Max	Ave	SD	Uncert
101	PIM000001	24.1883	24.5545	24.2860	6.5249e-02	7.5245e-01
102	PRV000001	24.4677	24.5897	24.5702	4.5206e-02	7.5251e-01
103	PSR000001	25.0100	25.1321	25.1199	3.6993e-02	7.5262e-01
104	PPH000001	15.0763	15.6256	15.3125	1.1564e-01	5.0146e-01
105	PAM000136	-21.6730	-20.2997	-20.7209	3.0449e-01	4.9203e+00
106	PPH000002	14.8946	15.2638	15.0953	9.2465e-02	2.0353e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	0.9912	-5.1275	3.4215e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0036	2.3778e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPM000001	-0.0601	0.1352	0.0649	9.4702e-02	8.1000e-01
113	VPM000002	-0.0376	0.1577	0.0484	9.7935e-02	8.1000e-01
114	VPM000003	-0.0864	0.3042	0.0152	1.0617e-01	8.1000e-01
115	VPM000004	-0.2479	0.1427	-0.0213	9.1354e-02	8.1000e-01
116	VPM000005	-0.1577	0.2329	0.0376	1.0440e-01	8.1000e-01
117	VPM000006	-0.2366	0.1540	0.0485	1.0595e-01	8.1000e-01
118	IPM000001	-1.8397	2.0650	0.4641	9.4007e-01	8.1000e+00
119	IPM000002	-2.6642	3.1896	0.1846	1.3775e+00	8.1000e+00
120	IPM000003	-1.5750	2.3250	0.2970	1.3042e+00	8.1000e+00
121	IPM000004	-0.2441	0.7324	0.1269	2.5266e-01	2.0000e+00
122	IPM000005	-0.4601	0.5164	0.0672	3.2476e-01	2.0000e+00
123	IPM000006	-0.5540	0.9109	0.0515	3.0501e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0190	3.0261e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0090	-0.0130	2.3531e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0090	-0.0161	2.4662e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0090	-0.0155	3.3728e-03	0.0000e+00
128	INT000001	-0.1503	0.2404	0.0021	9.8963e-02	4.1000e+00
129	INT000002	-0.2066	0.1840	0.0004	8.2864e-02	4.1000e+00
130	INT000003	-0.1991	0.1916	0.0000	8.2864e-02	4.1000e+00
131	INT000004	-0.0901	0.3005	0.0232	1.1223e-01	4.1000e+00
132	INT000005	-0.0789	0.3117	0.0283	1.1838e-01	4.1000e+00
133	INT000006	-0.1239	0.2667	-0.0028	1.0350e-01	4.1000e+00
134	INT000007	-0.2104	0.1803	0.0123	7.9017e-02	4.1000e+00
135	INT000008	-0.0413	0.1540	0.0290	9.4702e-02	4.1000e+00
136	INT000009	-0.1916	0.1991	-0.0119	8.6810e-02	4.1000e+00
137	INT000010	-0.2442	0.1465	-0.0020	9.3043e-02	4.1000e+00
138	INT000011	-0.2291	0.1615	0.0014	9.4125e-02	4.1000e+00
139	INT000012	-0.0864	0.1009	0.0191	9.8332e-02	4.1000e+00
140	INT000013	-0.1578	0.2329	-0.0093	1.0106e-01	4.1000e+00
141	INT000014	-0.2592	0.3268	0.0416	1.1306e-01	4.1000e+00
142	INT000015	-0.0075	0.1878	0.0042	4.6855e-02	4.1000e+00
143	INT000016	-0.0638	0.3268	0.0416	1.1306e-01	4.1000e+00
144	INT000017	-0.4582	0.5183	0.0535	3.2751e-01	4.1000e+00
145	INT000018	-0.3117	0.2742	-0.0071	1.2577e-01	4.1000e+00
146	INT000019	-0.3718	0.0188	-0.1804	9.2456e-02	4.1000e+00
147	INT000020	-0.3005	0.2855	0.0277	1.2124e-01	4.1000e+00
148	INT000021	-0.0638	0.1315	0.0416	9.8332e-02	4.1000e+00
149	INT000022	-0.0939	0.1014	-0.0119	9.7377e-02	4.1000e+00
150	INT000023	-0.2066	0.1840	-0.0035	5.5243e-02	4.1000e+00
151	INT000024	-0.1578	0.2329	0.0454	5.5243e-02	4.1000e+00
152	INT000025	-0.2442	0.1465	-0.0215	7.9017e-02	4.1000e+00
153	INT000026	-0.1803	0.2104	0.0189	8.3612e-02	4.1000e+00
154	INT000027	-0.0113	0.1840	0.0317	8.1729e-02	4.1000e+00
155	INT000028	-0.1803	0.2103	-0.0240	9.6655e-02	4.1000e+00

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I	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.2366	0.1540	-0.0179	7.5283e-02	4.1000e+00
157	INT000030	-0.1078	0.2028	0.0036	7.3716e-02	4.1000e+00
158	INT000031	-0.2442	0.3418	0.0058	1.0470e-01	4.1000e+00
159	INT000032	-0.0451	0.1502	0.0018	8.4262e-02	4.1000e+00
160	INT000033	-0.0376	0.5484	0.0171	1.1189e-01	4.1000e+00
161	INT000034	-0.1765	0.2141	0.0032	8.6810e-02	4.1000e+00
162	INT000035	-0.2216	0.1690	0.0206	9.3043e-02	4.1000e+00
163	INT000036	-0.0939	0.1014	-0.0314	9.2034e-02	4.1000e+00

Velocity 1 - 0.0057 (ft/sec) (+/- 1.0662 ft)
 Velocity 2 - 7.9345 (ft/sec) (+/- 1.9189 ft)
 Pressure drop - -2.2977 (psi)
 Tsat in - 235.1182 (deg F) Tsat out - 240.0993 (deg F)
 Phi inner - 0.0000 (kbtu/hr-ft2) (+/- 4992.6948 ft)
 Phi outer - 0.0000 (kbtu/hr-ft2) (+/- 1135.6604 ft)
 D inner - 0.1961 (ft) D outer - 0.2613 (ft) D hyd - 0.0390 (ft)
 L inner - 12.0610 (ft) L outer - 12.0070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TSP000001	73.8393	74.4796	74.1765	1.7825e-01	1.9000e+00
1	TSP000002	73.7731	74.1978	73.9642	1.5617e-01	1.9000e+00
2	TSP000001	06.8428	07.7088	07.2809	2.8210e-01	1.9002e+00
3	TSP000001	06.0513	06.7894	06.3509	1.8682e-01	1.9002e+00
4	TSP000001	06.3185	07.1509	06.7223	1.9322e-01	1.9002e+00
5	TSP000001	06.2158	06.9522	06.5405	1.7677e-01	1.9002e+00
6	TSP020136	79.7356	80.7945	80.3458	2.2997e-01	1.9001e+00
7	TSP050136	06.3918	07.3369	06.8800	1.9094e-01	1.9002e+00
8	TSP070136	06.5081	07.2464	06.8623	1.8786e-01	1.9002e+00
9	TSP080136	06.2931	07.2380	06.6432	1.9571e-01	1.9002e+00
10	TSP090136	06.9677	07.7032	07.3248	1.9101e-01	1.9002e+00
11	TSP100136	06.3201	06.9520	06.6612	1.5050e-01	1.9002e+00
12	TSP105136	07.1396	08.1919	07.6573	2.4691e-01	1.9002e+00
13	TSP110136	06.6990	07.6423	07.0771	1.9735e-01	1.9002e+00
14	TSP115136	06.6456	07.6907	07.2269	2.2823e-01	1.9002e+00
15	TSP120136	06.3695	07.1067	06.6772	1.6999e-01	1.9002e+00
16	TSP125136	07.1142	08.0586	07.4754	1.8287e-01	1.9002e+00
17	TSP130136	06.2391	06.9733	06.6663	1.7032e-01	1.9002e+00
18	TSP135040	73.8143	74.3468	74.0990	1.3037e-01	1.9000e+00
19	TSP130040	06.0977	06.8343	06.5436	1.7282e-01	1.9002e+00
20	TSP120224	06.5199	07.2561	06.8689	1.7329e-01	1.9002e+00
21	TSP120224	06.5865	07.3196	06.8886	1.7036e-01	1.9002e+00
22	TSP120312	06.6051	07.3426	06.9382	1.6665e-01	1.9002e+00
23	TSP120312	06.2705	07.2167	06.7123	1.5328e-01	1.9002e+00
24	TSP020000	06.9033	07.7211	07.3291	1.9967e-01	1.9002e+00
25	TSP070000	06.7574	07.3907	07.1288	1.7210e-01	1.9002e+00
26	TSP100000	06.8226	07.8726	07.3978	2.2161e-01	1.9002e+00
27	TSP120000	06.7315	07.4682	07.0810	1.8288e-01	1.9002e+00
28	TSP125000	06.7214	07.4570	07.0838	1.8774e-01	1.9002e+00
29	TSP130000	06.4380	07.2707	06.9053	1.6497e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6607	1.8292e-01	1.9011e+00
31	TAP050136	06.9817	07.6126	07.3388	1.7625e-01	1.9002e+00
32	TAP070136	06.9755	08.1267	07.6032	2.5385e-01	1.9002e+00
33	TAP080136	06.8414	07.5767	07.1946	1.9265e-01	1.9002e+00
34	TAP090136	74.0474	75.2140	74.5863	2.0820e-01	1.9000e+00
35	TAP100136	06.7920	07.3194	07.0874	1.7026e-01	1.9002e+00
36	TAP105136	06.5972	07.5305	06.9980	2.2778e-01	1.9002e+00
37	TAP110136	06.5209	07.1520	06.8698	1.6232e-01	1.9002e+00
38	TAP115136	07.1192	07.8529	07.4380	1.7669e-01	1.9002e+00
39	TAP120136	06.8459	07.5818	07.2829	1.6501e-01	1.9002e+00
40	TAP125136	06.7230	07.8719	07.2830	2.5124e-01	1.9002e+00
41	TAP130136	06.6062	07.5520	07.1358	1.8258e-01	1.9002e+00
42	TAP120040	06.9734	07.9242	07.5145	2.4562e-01	1.9002e+00
43	TAP130040	06.6810	07.6257	07.1094	1.8242e-01	1.9002e+00
44	TAP120224	06.6713	07.7214	07.1675	2.1851e-01	1.9002e+00
45	TAP130224	06.1923	07.1417	06.6231	2.2124e-01	1.9002e+00

#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1721	1.8122e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2383	1.1364e-01	1.9010e+00
48	TAP130040	06.8827	07.9344	07.4255	3.2005e-01	1.9002e+00
49	TAP130136	06.1854	07.1293	06.6470	1.8492e-01	1.9002e+00
50	TAP130224	06.9145	08.3882	07.7865	3.2468e-01	1.9002e+00
51	TAP130312	06.5976	07.3349	07.0863	1.8374e-01	1.9002e+00
52	TAP130000	05.4569	06.5073	05.8737	2.3134e-01	1.9002e+00
53	TSP000001	00.1822	01.1330	00.6598	1.9359e-01	1.9001e+00
54	TSP000002	75.3683	76.6386	76.1351	2.8882e-01	1.9000e+00
55	TSP000001	75.1872	75.9327	75.5324	1.8810e-01	1.9000e+00
56	TSP000002	75.7332	76.5823	76.0897	1.9856e-01	1.9000e+00
57	TAP020136	06.1567	07.0019	06.5871	1.8282e-01	1.9002e+00
58	TAP120312	06.2249	07.1708	06.7588	2.5375e-01	1.9002e+00
59	TAP130312	06.0342	06.7712	06.4510	1.9115e-01	1.9002e+00
60	EMPTY	0.4834	0.4883	0.4876	1.7115e-03	0.0000e+00
61	EMPTY	0.4980	0.5029	0.5025	1.3381e-03	0.0000e+00
62	EMPTY	0.5127	0.5176	0.5153	1.8082e-03	0.0000e+00
63	EMPTY	0.5273	0.5322	0.5302	2.4344e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3421	1.1714e-03	0.0000e+00
65	EMPTY	0.3613	0.3662	0.3654	1.8082e-03	0.0000e+00
66	EMPTY	0.3809	0.3858	0.3809	0.0000e+00	0.0000e+00
67	EMPTY	0.4004	0.4053	0.4005	6.9053e-04	0.0000e+00
68	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
69	EMPTY	0.4297	0.4346	0.4345	6.9053e-04	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4494	9.6655e-04	0.0000e+00
71	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
72	EMPTY	0.4834	0.4883	0.4882	6.9053e-04	0.0000e+00
73	EMPTY	0.5029	0.5127	0.5081	1.5314e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5228	1.1714e-03	0.0000e+00
75	EMPTY	0.5371	0.5469	0.5421	1.2041e-03	0.0000e+00
76	EMPTY	0.5518	0.5615	0.5569	1.5314e-03	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5768	1.6020e-03	0.0000e+00
78	EMPTY	0.6006	0.6006	0.6006	0.0000e+00	0.0000e+00
79	EMPTY	0.6201	0.6250	0.6249	6.9053e-04	0.0000e+00
80	PAN020136	-7.8346	-7.5295	-7.6958	0.6770e-02	0.7021e-01
81	PAN050136	-15.3624	-14.5995	-15.0786	1.4788e-01	1.6804e+00
82	PAN070136	-10.4461	-10.0646	-10.2401	0.6165e-02	0.7038e-01
83	PAN080136	-5.3815	-5.0001	-5.1832	7.7069e-02	0.7010e-01
84	PAN090136	-5.1306	-4.8254	-4.9719	8.2776e-02	0.7009e-01
85	PAN100136	-6.0579	-5.9053	-5.9892	5.6107e-02	0.7013e-01
86	PAN105136	-2.6944	-2.3893	-2.5700	7.0449e-02	0.7002e-01
87	PAN110136	-2.4097	-2.1809	-2.2904	6.0113e-02	0.7002e-01
88	PAN115136	-2.4186	-2.0371	-2.2264	7.5888e-02	0.7002e-01
89	PAN120136	-2.3613	-2.0561	-2.2713	6.6636e-02	0.7002e-01
90	PAN125136	-2.3261	-2.0572	-2.2810	5.9218e-02	0.7002e-01
91	PAN130136	-2.7092	-2.4803	-2.5917	4.6777e-02	0.7002e-01
92	PAN120040	-6.0740	-5.8452	-5.9565	7.5841e-02	0.7013e-01
93	PAN130040	-4.8034	-4.5745	-4.6829	5.9876e-02	0.7008e-01
94	PAN120224	-5.9067	-5.6015	-5.7907	6.3999e-02	0.7012e-01
95	PAN130224	-4.8841	-4.6552	-4.7635	6.5558e-02	0.7008e-01
96	PAN120312	-5.1893	-4.8841	-5.0168	7.1984e-02	0.7009e-01
97	PAN130312	-5.0396	-4.8107	-4.9419	5.9777e-02	0.7009e-01
98	PAN000136	22.8438	22.9811	22.9133	3.8400e-02	5.8282e-01
99	PAN100136	24.6299	24.7673	24.7123	3.6993e-02	5.8328e-01
100	PAN125136	24.9777	25.1150	25.0454	3.7269e-02	5.8337e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	22.7235	22.8456	22.7455	4.7374e-02	7.5215e-01
102	PRV000001	24.4677	24.5897	24.5702	4.5206e-02	7.5251e-01
103	PSB000001	25.1121	25.2542	25.2371	4.2787e-02	7.5265e-01
104	PRH000001	9.4915	9.9493	9.7259	1.0125e-01	5.0059e-01
105	PAN000136	-64.2451	-62.8718	-63.6134	2.7575e-01	4.9226e+00
106	PRH000002	9.4076	9.6929	9.5516	6.5560e-02	2.0142e-01
107	EMPTY	-0.0049	0.0049	0.0044	1.7784e-03	0.0000e+00
108	EMPTY	-10.0000	-1.5430	-7.3329	2.6755e+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	0.0049	0.0001	6.9053e-04	0.0000e+00
112	VP0000001	-0.0601	0.1352	0.0290	9.8132e-02	8.1000e-01
113	VP0000002	-0.2329	0.3530	0.0404	1.1272e-01	8.1000e-01
114	VP0000003	-0.0064	0.3042	0.0230	1.1942e-01	8.1000e-01
115	VP0000004	-0.2479	0.1427	-0.0174	1.2901e-01	8.1000e-01
116	VP0000005	-0.1577	0.2329	-0.0171	1.1189e-01	8.1000e-01
117	VP0000006	-0.0413	0.1540	0.0642	9.8132e-02	8.1000e-01
118	IP0000001	-1.8397	4.0173	0.8155	1.2122e+00	8.1000e+00
119	IP0000002	-2.6642	1.2303	-0.2056	1.1701e+00	8.1000e+00
120	IP0000003	-1.5750	2.3250	0.1000	1.2613e+00	8.1000e+00
121	IP0000004	-0.2441	0.7324	0.1074	2.7971e-01	2.0000e+00
122	IP0000005	-0.4601	0.5164	0.0477	3.2655e-01	2.0000e+00
123	IP0000006	-0.5540	0.9109	0.0515	3.0913e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0191	3.2479e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0090	-0.0133	2.6174e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0090	-0.0159	2.7560e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0090	-0.0149	3.4751e-03	0.0000e+00
128	INT000001	-0.1503	0.2404	0.0021	1.1361e-01	4.1000e+00
129	INT000002	-0.2066	0.3793	0.0002	8.1347e-02	4.1000e+00
130	INT000003	-0.1991	0.1916	0.0041	9.6132e-02	4.1000e+00
131	INT000004	-0.0901	0.3005	0.0192	1.1942e-01	4.1000e+00
132	INT000005	-0.0789	0.3117	0.0227	1.2627e-01	4.1000e+00
133	INT000006	-0.1239	0.2667	-0.0060	1.0440e-01	4.1000e+00
134	INT000007	-0.2104	0.1803	-0.0033	6.1257e-02	4.1000e+00
135	INT000008	-0.0413	0.1540	0.0173	9.0412e-02	4.1000e+00
136	INT000009	-0.1916	0.1991	-0.0041	7.8523e-02	4.1000e+00
137	INT000010	-0.2442	0.1465	-0.0090	8.8233e-02	4.1000e+00
138	INT000011	-0.0330	0.1615	0.0170	8.6541e-02	4.1000e+00
139	INT000012	-0.2017	0.1009	-0.0003	1.0440e-01	4.1000e+00
140	INT000013	-0.1570	0.0376	-0.0210	9.0412e-02	4.1000e+00
141	INT000014	-0.2592	0.1314	0.0299	1.0617e-01	4.1000e+00
142	INT000015	-0.2020	0.1078	0.0003	5.5243e-02	4.1000e+00
143	INT000016	-0.0638	0.1315	0.0299	9.8569e-02	4.1000e+00
144	INT000017	-0.4502	0.5103	0.0300	2.4083e-01	4.1000e+00
145	INT000018	-0.1164	0.2742	-0.0227	1.1327e-01	4.1000e+00
146	INT000019	-0.3710	0.0100	-0.1726	1.0052e-01	4.1000e+00
147	INT000020	-0.1052	0.2055	0.0394	1.0297e-01	4.1000e+00
148	INT000021	-0.2591	0.1315	0.0065	1.0259e-01	4.1000e+00
149	INT000022	-0.0939	0.1014	-0.0150	9.6655e-02	4.1000e+00
150	INT000023	-0.2066	0.1040	0.0278	9.6655e-02	4.1000e+00
151	INT000024	0.0376	0.2329	0.0571	5.9109e-02	4.1000e+00
152	INT000025	-0.0400	0.1465	-0.0137	7.5790e-02	4.1000e+00
153	INT000026	-0.1803	0.2104	0.0109	8.3612e-02	4.1000e+00
154	INT000027	-0.2066	0.1040	0.0043	7.7324e-02	4.1000e+00
155	INT000028	-0.1803	0.2103	-0.0006	1.0320e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.2366	0.1540	-0.0179	8.4997e-02	4.1000e+00
157	INT000030	-0.1070	0.2020	0.0036	9.2456e-02	4.1000e+00
158	INT000031	-0.0408	0.3418	0.0410	1.0595e-01	4.1000e+00
159	INT000032	-0.2404	0.1502	-0.0099	9.4125e-02	4.1000e+00
160	INT000033	-0.2329	0.1570	0.0015	1.0440e-01	4.1000e+00
161	INT000034	-0.1765	0.2141	0.0110	7.8523e-02	4.1000e+00
162	INT000035	-0.2216	0.1690	0.0128	1.0440e-01	4.1000e+00
163	INT000036	-0.0939	0.2967	-0.0002	1.0617e-01	4.1000e+00

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Velocity 1 - 6.0024 (ft/sec) (+/- 4.9023 %)
 Velocity 2 - 5.9727 (ft/sec) (+/- 2.3671 %)
 Pressure drop - -3.5305 (psi)
 Tsat in - 231.7654 (deg F) Tsat out - 239.7992 (deg F)
 Phi inner - 0.0000 (kbtu/hr-ft2) (+/- 5102.8906 %)
 Phi outer - 0.0000 (kbtu/hr-ft2) (+/- 9773.9463 %)
 D inner - 0.1961 (ft) D outer - 0.2413 (ft) D hyd - 0.0390 (ft)
 L inner - 12.0610 (ft) L outer - 12.0070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRO000001	73.8393	74.4796	74.1253	1.8094e-01	1.9000e+00
1	TRO000002	73.7731	74.1978	74.0867	1.4390e-01	1.9000e+00
2	TRO000001	87.1577	87.7080	87.4693	1.8506e-01	1.9002e+00
3	TRO000001	86.2619	86.8945	86.5403	1.7521e-01	1.9002e+00
4	TRO000001	86.5278	87.1504	86.8268	1.7374e-01	1.9002e+00
5	TRO000001	86.4251	86.9522	86.6948	1.4000e-01	1.9002e+00
6	TRO020136	79.9469	81.1122	80.3503	2.4643e-01	1.9001e+00
7	TRO050136	86.7068	87.3369	87.0337	1.5689e-01	1.9002e+00
8	TRO070136	86.5081	87.5624	87.0437	2.2432e-01	1.9002e+00
9	TRO080136	86.5020	87.2380	86.8971	1.8431e-01	1.9002e+00
10	TRO090136	87.0718	88.0177	87.5133	2.2645e-01	1.9002e+00
11	TRO100136	86.4249	87.3716	86.8290	2.0418e-01	1.9002e+00
12	TRO105136	87.5600	88.1918	87.8886	1.8851e-01	1.9002e+00
13	TRO110136	86.8046	87.6423	87.2518	1.7705e-01	1.9002e+00
14	TRO115136	86.9617	88.0140	87.4456	2.4523e-01	1.9002e+00
15	TRO120136	86.5797	87.3167	86.9082	1.8244e-01	1.9002e+00
16	TRO125136	87.3233	87.9546	87.6514	1.5909e-01	1.9002e+00
17	TRO130136	86.5519	87.1803	86.8484	1.6151e-01	1.9002e+00
18	TRO120048	73.6020	74.3468	73.9468	1.7529e-01	1.9000e+00
19	TRO130048	86.3072	87.0437	86.7026	1.6929e-01	1.9002e+00
20	TRO120224	86.7294	87.3612	87.0494	1.7655e-01	1.9002e+00
21	TRO130224	86.6896	87.4246	87.0882	1.6396e-01	1.9002e+00
22	TRO120312	86.8157	87.4474	87.1275	1.6744e-01	1.9002e+00
23	TRO130312	86.5853	87.2167	86.9134	1.5987e-01	1.9002e+00
24	TRO200000	86.9834	88.1423	87.5144	2.1071e-01	1.9002e+00
25	TRO200000	86.9689	87.7071	87.3021	1.5862e-01	1.9002e+00
26	TRO200000	87.0326	88.0801	87.5443	1.8555e-01	1.9002e+00
27	TRO200000	86.8371	87.6779	87.2446	1.5846e-01	1.9002e+00
28	TRO200000	86.8270	87.6657	87.2457	2.0308e-01	1.9002e+00
29	TRO200000	86.7448	87.3763	87.0436	1.7821e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6515	2.1752e-01	1.9011e+00
31	TAP050136	87.1909	88.0308	87.5269	1.7491e-01	1.9002e+00
32	TAP070136	87.3926	88.2299	87.8159	2.1763e-01	1.9002e+00
33	TAP080136	87.0521	87.6794	87.3736	1.3711e-01	1.9002e+00
34	TAP090136	74.0469	75.1088	74.6159	2.6400e-01	1.9000e+00
35	TAP100136	86.8976	87.7399	87.2810	1.8026e-01	1.9002e+00
36	TAP105136	86.7005	87.6412	87.1979	2.3091e-01	1.9002e+00
37	TAP110136	86.7301	87.5702	87.0286	1.9244e-01	1.9002e+00
38	TAP115136	87.1180	88.0635	87.6179	2.5310e-01	1.9002e+00
39	TAP120136	87.0550	87.7908	87.4375	1.6678e-01	1.9002e+00
40	TAP125136	86.8258	87.9774	87.5161	3.2677e-01	1.9002e+00
41	TAP130136	86.8157	87.6564	87.2906	1.8047e-01	1.9002e+00
42	TAP120048	87.1848	88.1350	87.7130	2.6377e-01	1.9002e+00
43	TAP130048	86.7851	87.7313	87.2728	1.9076e-01	1.9002e+00
44	TAP120224	86.8810	87.6174	87.3015	1.9101e-01	1.9002e+00
45	TAP130224	86.4034	87.1417	86.7960	1.7828e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.2181	1.7965e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2062	1.0175e-01	1.9010e+00
48	TAP110048	86.9878	88.2486	87.6437	3.2368e-01	1.9002e+00
49	TAP110136	86.4986	87.4442	86.8646	1.8513e-01	1.9002e+00
50	TAP110224	87.1252	88.4937	87.8411	3.4092e-01	1.9002e+00
51	TAP110312	86.5976	87.8683	87.1408	2.6326e-01	1.9002e+00
52	TRO130000	85.5621	86.6130	86.0161	2.2978e-01	1.9002e+00
53	TRO100001	88.1822	88.9225	88.5670	1.7829e-01	1.9001e+00
54	TRO100002	75.4749	76.7451	76.1096	2.8996e-01	1.9000e+00
55	TRO000001	75.1875	76.0387	75.5535	1.7882e-01	1.9000e+00
56	TRO000002	75.6266	76.5823	76.1320	1.9478e-01	1.9000e+00
57	TAP050136	86.2618	87.1069	86.7144	1.7599e-01	1.9002e+00
58	TAP120312	86.4350	87.3807	86.9603	2.3540e-01	1.9002e+00
59	TAP130312	86.2440	86.9809	86.6229	1.5474e-01	1.9002e+00
60	EMPTY	0.4883	0.4932	0.4929	1.1714e-03	0.0000e+00
61	EMPTY	0.5029	0.5078	0.5074	1.3381e-03	0.0000e+00
62	EMPTY	0.5176	0.5225	0.5189	2.2146e-03	0.0000e+00
63	EMPTY	0.5322	0.5371	0.5360	2.0432e-03	0.0000e+00
64	EMPTY	0.3418	0.3467	0.3458	1.8950e-03	0.0000e+00
65	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
66	EMPTY	0.3809	0.3857	0.3844	2.2146e-03	0.0000e+00
67	EMPTY	0.4004	0.4053	0.4019	2.2603e-03	0.0000e+00
68	EMPTY	0.4150	0.4199	0.4158	1.8082e-03	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4347	6.9053e-04	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4514	2.4484e-03	0.0000e+00
71	EMPTY	0.4736	0.4736	0.4736	0.0000e+00	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4888	1.4797e-03	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5096	2.3675e-03	0.0000e+00
74	EMPTY	0.5225	0.5273	0.5269	1.4797e-03	0.0000e+00
75	EMPTY	0.5420	0.5469	0.5447	2.4484e-03	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5612	1.1714e-03	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5808	1.1714e-03	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6009	1.1714e-03	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6257	1.7115e-03	0.0000e+00
80	PAN020136	-12.1834	-11.9545	-12.0537	5.6107e-02	8.7052e-01
81	PAN050136	-23.6022	-22.9918	-23.2909	1.4446e-01	1.6810e+00
82	PAN070136	-15.7867	-15.5578	-15.6738	7.2690e-02	8.7088e-01
83	PAN080136	-7.9755	-7.7466	-7.8686	6.3571e-02	8.7022e-01
84	PAN090136	-7.8772	-7.7246	-7.7871	3.9868e-02	8.7022e-01
85	PAN100136	-8.4230	-8.1941	-8.3360	6.5413e-02	8.7025e-01
86	PAN105136	-3.9914	-3.7625	-3.9182	6.1578e-02	8.7006e-01
87	PAN110136	-3.8593	-3.6304	-3.7174	7.3938e-02	8.7005e-01
88	PAN115136	-3.7919	-3.5630	-3.7080	7.5904e-02	8.7005e-01
89	PAN120136	-3.8109	-3.6583	-3.7300	4.9732e-02	8.7005e-01
90	PAN125136	-3.9283	-3.6994	-3.7619	6.6636e-02	8.7005e-01
91	PAN130136	-4.0061	-3.7010	-3.8764	6.4018e-02	8.7005e-01
92	PAN120048	-8.7443	-8.4391	-8.5643	6.4957e-02	8.7026e-01
93	PAN130048	-7.5500	-7.3211	-7.4676	6.3253e-02	8.7020e-01
94	PAN120224	-8.2718	-7.9666	-8.0994	7.9810e-02	8.7024e-01
95	PAN130224	-7.7070	-7.4781	-7.6047	6.6494e-02	8.7021e-01
96	PAN120312	-7.7832	-7.5544	-7.6886	6.0801e-02	8.7021e-01
97	PAN130312	-7.7862	-7.5573	-7.6900	6.5049e-02	8.7021e-01
98	PAB000136	21.5162	21.6536	21.5584	4.2219e-02	5.8250e-01
99	PAB100136	24.2637	24.4468	24.3058	3.4405e-02	5.8317e-01
100	PAB125136	24.8403	24.9777	24.9127	3.5926e-02	5.8333e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	21.2586	21.5028	21.4076	5.6722e-02	7.5191e-01
102	PRV000001	24.4677	24.5897	24.5751	4.0071e-02	7.5251e-01
103	PSR000001	25.2542	25.2542	25.2542	0.0000e+00	7.5265e-01
104	PPH000001	5.2801	5.5548	5.4248	9.0783e-02	5.0018e-01
105	PAN000136	98.1196	97.2040	-97.9640	2.3777e-01	4.9261e+00
106	PPH000002	5.2966	5.4644	5.3704	3.9824e-02	2.0045e-01
107	EMPTY	-0.0049	0.0049	0.0027	3.4408e-03	0.0000e+00
108	EMPTY	-10.0000	-3.1592	-7.8344	2.2307e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0013	2.1635e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPH000001	-0.0601	0.3305	0.0376	1.0625e-01	8.1000e-01
113	VPH000002	-0.0376	0.3530	0.0679	1.0595e-01	8.1000e-01
114	VPH000003	-0.0864	0.3042	0.0230	1.0559e-01	8.1000e-01
115	VPH000004	-0.2479	0.1427	0.0021	1.0470e-01	8.1000e-01
116	VPH000005	-0.1577	0.2329	0.0024	1.0206e-01	8.1000e-01
117	VPH000006	-0.0413	0.3493	0.1149	1.2470e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.6904	1.1329e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	-0.3617	1.2271e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2970	1.1792e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1855	2.5420e-01	2.0000e+00
122	IPW000005	-0.4601	1.0046	0.0574	3.0250e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0319	3.9459e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0098	-0.0199	3.3944e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0134	2.3778e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0162	2.6908e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0158	3.8913e-03	0.0000e+00
128	INT0000001	-0.1503	0.2404	-0.0057	1.1027e-01	4.1000e+00
129	INT0000002	-0.2066	0.1840	0.0004	8.2864e-02	4.1000e+00
130	INT0000003	-0.1991	0.1916	0.0002	6.2265e-02	4.1000e+00
131	INT0000004	-0.0901	0.3005	-0.0042	1.0559e-01	4.1000e+00
132	INT0000005	-0.0789	0.3117	0.0305	1.1272e-01	4.1000e+00
133	INT0000006	-0.1239	0.2667	0.0206	1.1712e-01	4.1000e+00
134	INT0000007	-0.2104	0.1803	0.0240	8.8233e-02	4.1000e+00
135	INT0000008	-0.2366	0.1540	0.0212	1.0014e-01	4.1000e+00
136	INT0000009	-0.1916	0.1991	-0.0119	8.6810e-02	4.1000e+00
137	INT0000010	-0.2442	0.3418	0.0019	1.0297e-01	4.1000e+00
138	INT0000011	-0.0338	0.1615	0.0326	9.3461e-02	4.1000e+00
139	INT0000012	-0.2817	0.3042	0.0152	1.1327e-01	4.1000e+00
140	INT0000013	-0.1578	0.2329	0.0024	8.5454e-02	4.1000e+00
141	INT0000014	-0.2592	0.3268	0.0416	1.2608e-01	4.1000e+00
142	INT0000015	-0.2028	0.1878	0.0042	7.2866e-02	4.1000e+00
143	INT0000016	-0.2592	0.3268	0.0330	1.2001e-01	4.1000e+00
144	INT0000017	-0.4582	0.7136	0.0144	3.0074e-01	4.1000e+00
145	INT0000018	-0.1164	0.2742	-0.0110	1.0595e-01	4.1000e+00
146	INT0000019	-0.3718	0.0188	-0.1648	1.1443e-01	4.1000e+00
147	INT0000020	-0.1052	0.2855	0.0355	1.0470e-01	4.1000e+00
148	INT0000021	-0.0638	0.3268	0.0455	1.0559e-01	4.1000e+00
149	INT0000022	-0.2892	0.1014	-0.0041	1.1306e-01	4.1000e+00
150	INT0000023	-0.2066	0.1840	0.0122	8.4997e-02	4.1000e+00
151	INT0000024	-0.1578	0.2329	0.0532	1.0320e-01	4.1000e+00
152	INT0000025	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
153	INT0000026	-0.1803	0.2104	0.0072	7.8523e-02	4.1000e+00
154	INT0000027	-0.2066	0.1840	0.0239	8.5454e-02	4.1000e+00
155	INT0000028	-0.1803	0.2103	0.0228	1.1811e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT0000029	-0.2366	0.1540	0.0056	9.3043e-02	4.1000e+00
157	INT0000030	-0.1878	0.2028	0.0231	9.5357e-02	4.1000e+00
158	INT0000031	-0.0488	0.3418	0.0371	1.1272e-01	4.1000e+00
159	INT0000032	-0.0451	0.3455	0.0174	1.0014e-01	4.1000e+00
160	INT0000033	-0.2329	0.3531	0.0015	9.6655e-02	4.1000e+00
161	INT0000034	-0.1765	0.2141	0.0188	9.6655e-02	4.1000e+00
162	INT0000035	-0.2216	0.1690	0.0323	1.1334e-01	4.1000e+00
163	INT0000036	-0.0939	0.1014	0.0115	9.8332e-02	4.1000e+00

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Velocity 1 - 4.0200 (ft/sec) (+/- 10.5662 %)
 Velocity 2 - 4.0357 (ft/sec) (+/- 4.0838 %)
 Pressure drop - -4.5001 (psi)
 Tsat in - 229.1655 (deg F) Tsat out - 239.6538 (deg F)
 Phi inner - 0.0000 (kbtu/hr-ft2) (+/- 5563.3120 %)
 Phi outer - 0.0000 (kbtu/hr-ft2) (+/- 3322.6621 %)
 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	73.8393	74.4796	74.1637	1.9872e-01	1.9000e+00
1	TRF0000002	73.5607	74.1978	73.9854	1.5470e-01	1.9000e+00
2	TRF0000001	87.3682	88.1034	87.7506	1.9427e-01	1.9002e+00
3	TIN0000001	86.3679	87.2098	86.8688	1.6285e-01	1.9002e+00
4	TRV0000001	86.9463	87.5772	87.2243	1.7300e-01	1.9002e+00
5	TSR0000001	86.6344	87.1614	86.8959	1.3980e-01	1.9002e+00
6	TAO20136	79.9474	80.7950	80.4516	2.4257e-01	1.9001e+00
7	TAO50136	86.7065	87.7549	87.2805	1.8649e-01	1.9002e+00
8	TAO70136	86.9297	87.6683	87.3222	1.9056e-01	1.9002e+00
9	TAO80136	86.7110	87.5506	87.2022	1.7933e-01	1.9002e+00
10	TAO90136	87.2815	88.2263	87.8110	2.1840e-01	1.9002e+00
11	TAO100136	86.8447	87.5813	87.1439	1.7955e-01	1.9002e+00
12	TAO105136	87.6659	88.8227	88.1874	2.3474e-01	1.9002e+00
13	TAO110136	87.1155	87.9530	87.5267	2.0402e-01	1.9002e+00
14	TAO115136	87.1721	88.1193	87.7276	2.1781e-01	1.9002e+00
15	TAO120136	86.7898	87.5268	87.2025	1.8400e-01	1.9002e+00
16	TAO125136	87.6376	88.3736	87.9533	1.8022e-01	1.9002e+00
17	TAO130136	86.6534	87.5943	87.1591	1.8604e-01	1.9002e+00
18	TAO130048	73.6026	74.3468	73.9809	1.6941e-01	1.9000e+00
19	TAO130048	86.7260	87.3567	87.0210	1.6601e-01	1.9002e+00
20	TAO120224	86.9399	87.7809	87.3602	1.8035e-01	1.9002e+00
21	TAO130224	86.8983	87.7350	87.3547	1.8445e-01	1.9002e+00
22	TAO120312	87.0267	87.6583	87.4516	1.7147e-01	1.9002e+00
23	TAO130312	86.7949	87.4262	87.1859	1.5915e-01	1.9002e+00
24	TRT020000	87.2993	88.1424	87.8053	2.2922e-01	1.9002e+00
25	TRT070000	87.1804	87.9193	87.6192	1.9573e-01	1.9002e+00
26	TRT100000	87.3459	88.2911	87.8542	2.2174e-01	1.9002e+00
27	TRT120000	87.2562	87.8876	87.5719	1.7652e-01	1.9002e+00
28	TRT125000	86.8270	87.9773	87.5838	2.0676e-01	1.9002e+00
29	TRT130000	87.0590	87.7953	87.3790	1.7773e-01	1.9002e+00
30	EMPTY	39.1464	39.8352	39.6516	1.9122e-01	1.9011e+00
31	TAF050136	87.5042	88.1348	87.8407	1.6564e-01	1.9002e+00
32	TAF070136	87.7051	88.4403	88.0999	1.8154e-01	1.9002e+00
33	TAF080136	87.2588	88.0965	87.6945	1.7764e-01	1.9002e+00
34	TAF090136	73.9407	75.0027	74.5694	2.8506e-01	1.9000e+00
35	TAF100136	87.1087	87.9504	87.5716	1.8904e-01	1.9002e+00
36	TAF105136	86.8033	88.0582	87.5355	2.8621e-01	1.9002e+00
37	TAF110136	87.0434	87.7792	87.3507	1.7997e-01	1.9002e+00
38	TAF115136	87.4325	88.4820	87.9404	2.1653e-01	1.9002e+00
39	TAF120136	87.4732	87.9998	87.7386	1.4469e-01	1.9002e+00
40	TAF125136	87.0347	88.3914	87.7620	2.8605e-01	1.9002e+00
41	TAF130136	87.2347	88.1800	87.6258	2.0033e-01	1.9002e+00
42	TAF120048	87.5026	88.4525	88.0047	2.2000e-01	1.9002e+00
43	TAF130048	87.2045	87.8358	87.5748	1.6628e-01	1.9002e+00
44	TAF120224	87.0906	88.2458	87.6704	2.2581e-01	1.9002e+00
45	TAF130224	86.7204	87.5640	87.1294	1.7644e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.0940	2.1831e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2475	1.2414e-01	1.9010e+00
48	TAI130048	87.1978	88.5633	87.8999	3.1214e-01	1.9002e+00
49	TAI130136	86.7080	87.6534	87.1159	2.0855e-01	1.9002e+00
50	TAI130224	87.3357	88.7040	88.2578	3.2285e-01	1.9002e+00
51	TAI130312	87.0184	87.9656	87.4774	2.3842e-01	1.9002e+00
52	TRB130000	85.7717	86.7173	86.3012	2.5363e-01	1.9002e+00
53	TSI0000001	80.1822	80.9225	80.4913	1.7064e-01	1.9001e+00
54	TSI0000002	75.5797	76.6392	76.1520	2.7379e-01	1.9000e+00
55	TSO0000001	75.1875	76.0387	75.5834	1.9825e-01	1.9000e+00
56	TSO0000002	75.6272	76.5823	76.1575	1.9886e-01	1.9000e+00
57	TAF020136	86.5799	87.5307	87.0402	2.1084e-01	1.9002e+00
58	TAF120312	86.7494	87.8004	87.1787	2.4093e-01	1.9002e+00
59	TAF130312	86.4538	87.4002	86.9460	2.1395e-01	1.9002e+00
60	EMPTY	0.4932	0.5029	0.4980	9.8648e-04	0.0000e+00
61	EMPTY	0.5078	0.5127	0.5125	9.6655e-04	0.0000e+00
62	EMPTY	0.5225	0.5273	0.5248	2.4642e-03	0.0000e+00
63	EMPTY	0.5371	0.5420	0.5413	1.7115e-03	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3680	2.3675e-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	0.4197	9.6655e-04	0.0000e+00
69	EMPTY	0.4346	0.4395	0.4384	2.0432e-03	0.0000e+00
70	EMPTY	0.4492	0.4541	0.4540	6.9053e-04	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4780	1.4797e-03	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4927	1.4797e-03	0.0000e+00
73	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
74	EMPTY	0.5273	0.5322	0.5275	9.6655e-04	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5566	0.5615	0.5614	6.9053e-04	0.0000e+00
77	EMPTY	0.5762	0.5811	0.5810	6.9053e-04	0.0000e+00
78	EMPTY	0.6006	0.6055	0.6054	6.9053e-04	0.0000e+00
79	EMPTY	0.6250	0.6299	0.6297	9.6655e-04	0.0000e+00
80	PAN020136	-15.5403	-15.2352	-15.3710	7.7514e-02	8.7085e-01
81	PAN050136	-29.8583	-29.4005	-29.6569	1.1302e-01	1.6816e+00
82	PAN070136	-19.9065	-19.7540	-19.8211	5.4800e-02	8.7141e-01
83	PAN080136	-10.1881	-9.8066	-9.9958	8.3348e-02	8.7036e-01
84	PAN090136	-10.0134	-9.7845	-9.9432	5.5232e-02	8.7036e-01
85	PAN100136	-10.2540	-10.0252	-10.1457	6.5558e-02	8.7037e-01
86	PAN105136	-5.0595	-4.7544	-4.9115	6.6135e-02	8.7009e-01
87	PAN110136	-4.9274	-4.6223	-4.7840	7.1703e-02	8.7008e-01
88	PAN115136	-4.8600	-4.6311	-4.7456	6.2135e-02	8.7008e-01
89	PAN120136	-5.0316	-4.8027	-4.9507	6.2440e-02	8.7009e-01
90	PAN125136	-4.9964	-4.8438	-4.9399	4.8277e-02	8.7009e-01
91	PAN130136	-4.9980	-4.7691	-4.8805	5.6022e-02	8.7009e-01
92	PAN120048	-10.8043	-10.5754	-10.6410	5.9717e-02	8.7041e-01
93	PAN130048	-9.7625	-9.6099	-9.6908	6.4314e-02	8.7034e-01
94	PAN120224	-10.1029	-9.7977	-9.9991	7.9735e-02	8.7036e-01
95	PAN130224	-9.9195	-9.6906	-9.8279	7.7069e-02	8.7035e-01
96	PAN120312	-9.9195	-9.7669	-9.8447	6.0664e-02	8.7035e-01
97	PAN130312	-9.9987	-9.7698	-9.9087	7.3422e-02	8.7035e-01
98	PAB000136	20.4634	20.6465	20.5485	3.8143e-02	5.8227e-01
99	PAB100136	23.9891	24.1264	24.0412	3.8143e-02	5.8311e-01
100	PAB125136	24.7946	24.9319	24.8486	3.8898e-02	5.8332e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	20.2821	20.5262	20.4212	4.9385e-02	7.5174e-01
102	PRV0000001	24.4677	24.5897	24.5824	2.9284e-02	7.5251e-01
103	PSR0000001	25.2542	25.3763	25.3055	6.0861e-02	7.5266e-01
104	PFH0000001	2.2589	2.5335	2.3962	8.5264e-02	5.0004e-01
105	PAN000136	-124.6699	-124.2121	-124.5875	1.7765e-01	4.9298e+00
106	PFH0000002	2.3769	2.4440	2.4155	1.9548e-02	2.0009e-01
107	EMPTY	-0.0049	0.0049	0.0013	3.5307e-03	0.0000e+00
108	EMPTY	-10.0000	0.8496	-7.5209	2.8537e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	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	VPW0000001	-0.0601	0.3305	0.0532	1.0507e-01	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0835	9.5765e-02	8.1000e-01
114	VPW0000003	-0.0864	0.3042	0.0034	1.0595e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0174	1.1632e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0258	1.0741e-01	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.1071	1.0106e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.7374	1.1459e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	0.0285	1.2397e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.4140	1.2136e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1367	2.2689e-01	2.0000e+00
122	IPW0000005	-0.4601	1.0046	0.1258	3.1192e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.0808	3.7239e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0195	3.1195e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0130	2.5362e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0156	2.9594e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.5141e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	0.0216	1.0168e-01	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0043	7.7324e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	-0.0077	6.2265e-02	4.1000e+00
131	IHT0000004	-0.0901	0.3005	0.0427	1.0014e-01	4.1000e+00
132	IHT0000005	-0.0789	0.1164	0.0305	9.7935e-02	4.1000e+00
133	IHT0000006	-0.1239	0.2667	0.0284	9.0756e-02	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0123	8.8321e-02	4.1000e+00
135	IHT0000008	-0.2366	0.1540	0.0251	1.0145e-01	4.1000e+00
136	IHT0000009	-0.1916	0.1991	0.0116	7.8523e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0019	8.6541e-02	4.1000e+00
138	IHT0000011	-0.2291	0.1615	0.0053	8.8233e-02	4.1000e+00
139	IHT0000012	-0.0864	0.1089	-0.0043	9.7377e-02	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0054	9.0756e-02	4.1000e+00
141	IHT0000014	-0.0639	0.3268	0.0416	1.0595e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	0.0003	6.7888e-02	4.1000e+00
143	IHT0000016	-0.0638	0.3268	0.0221	1.0559e-01	4.1000e+00
144	IHT0000017	-0.4582	0.5183	0.0105	3.1320e-01	4.1000e+00
145	IHT0000018	-0.3117	0.0789	-0.0305	1.0559e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.1843	1.1133e-01	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0198	1.0992e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0275	9.3461e-02	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0200	8.2393e-02	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0649	7.9017e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0371	9.1779e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	-0.0045	8.1347e-02	4.1000e+00
154	IHT0000027	-0.0113	0.1840	0.0200	7.2330e-02	4.1000e+00
155	IHT0000028	-0.1803	0.4056	-0.0006	1.3578e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0413	0.3493	0.0134	9.6976e-02	4.1000e+00
157	IHT0000030	-0.1878	0.2028	0.0192	9.9902e-02	4.1000e+00
158	IHT0000031	-0.0488	0.3418	0.0644	1.2534e-01	4.1000e+00
159	IHT0000032	-0.2404	0.1502	0.0057	9.5112e-02	4.1000e+00
160	IHT0000033	-0.0376	0.3531	0.0093	9.3043e-02	4.1000e+00
161	IHT0000034	-0.1765	0.2141	0.0227	8.3612e-02	4.1000e+00
162	IHT0000035	-0.2216	0.1690	0.0401	1.0885e-01	4.1000e+00
163	IHT0000036	-0.0939	0.2967	0.0115	1.0595e-01	4.1000e+00

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Velocity 1 - 3.0124 (ft/sec) (+/- 18.9413 %)
 Velocity 2 - 3.0251 (ft/sec) (+/- 6.9381 %)
 Pressure drop - -4.8827 (psi)
 Tsat in - 228.1641 (deg F) Tsat out - 239.5623 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 2810.3936 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 2169.6807 %)
 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	73.8393	74.4796	74.1552	1.6833e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0024	1.4126e-01	1.9000e+00
2	TFH000001	87.7886	88.6279	88.1619	1.7640e-01	1.9002e+00
3	TIN000001	86.9986	87.6312	87.2519	1.6200e-01	1.9002e+00
4	TRV000001	86.8421	88.2028	87.3331	2.4624e-01	1.9002e+00
5	TSR000001	86.6344	87.3706	87.0549	1.3425e-01	1.9002e+00
6	TAO020136	80.0531	81.0061	80.4812	2.1491e-01	1.9001e+00
7	TAO050136	87.2281	87.8583	87.5563	1.7039e-01	1.9002e+00
8	TAO070136	87.0356	88.0895	87.6259	1.8564e-01	1.9002e+00
9	TAO080136	87.0255	87.6538	87.4528	1.3202e-01	1.9002e+00
10	TAO090136	87.7007	88.6462	88.1421	1.8373e-01	1.9002e+00
11	TAO100136	87.0545	87.7910	87.3914	1.7515e-01	1.9002e+00
12	TAO105136	87.9807	88.9275	88.4607	1.8667e-01	1.9002e+00
13	TAO110136	87.3237	88.2665	87.8056	1.8552e-01	1.9002e+00
14	TAO115136	87.4874	88.4345	87.9925	2.3471e-01	1.9002e+00
15	TAO120136	87.1050	87.8418	87.4797	1.3481e-01	1.9002e+00
16	TAO125136	87.8472	88.6867	88.2173	1.8276e-01	1.9002e+00
17	TAO130136	86.9660	87.8012	87.4076	1.6002e-01	1.9002e+00
18	TAO120048	74.1328	74.6651	74.4053	1.5361e-01	1.9000e+00
19	TAO130048	86.9354	87.6715	87.2553	1.6295e-01	1.9002e+00
20	TAO120224	87.2542	87.8858	87.6120	1.7387e-01	1.9002e+00
21	TAO130224	87.1089	87.9435	87.6126	1.7220e-01	1.9002e+00
22	TAO120312	87.3422	88.0784	87.6703	1.7220e-01	1.9002e+00
23	TAO130312	87.1089	87.7395	87.4246	1.4247e-01	1.9002e+00
24	TAT020000	87.5100	88.4580	88.0454	2.0612e-01	1.9002e+00
25	TAT070000	87.4968	88.2356	87.8644	1.5406e-01	1.9002e+00
26	TAT100000	87.7646	88.3949	88.1555	1.8238e-01	1.9002e+00
27	TAT120000	87.4659	88.2014	87.8277	1.5189e-01	1.9002e+00
28	TAT125000	87.3476	88.2914	87.8467	1.9558e-01	1.9002e+00
29	TAT130000	87.2686	88.1087	87.6179	1.8548e-01	1.9002e+00
30	EMPTY	38.9168	40.0646	39.6424	2.2416e-01	1.9011e+00
31	TAF050136	87.8183	88.4488	88.1208	1.5230e-01	1.9002e+00
32	TAF070136	88.0188	88.8575	88.4212	2.1592e-01	1.9002e+00
33	TAF080136	87.5716	88.2014	87.9403	1.3614e-01	1.9002e+00
34	TAF090136	74.0469	75.2140	74.6668	2.9865e-01	1.9000e+00
35	TAF100136	87.5293	88.2663	87.8452	1.4266e-01	1.9002e+00
36	TAF105136	87.3251	88.1609	87.7646	2.4602e-01	1.9002e+00
37	TAF110136	87.2524	87.9866	87.6183	1.6853e-01	1.9002e+00
38	TAF115136	87.7462	88.5863	88.2376	1.9706e-01	1.9002e+00
39	TAF120136	87.6822	88.4176	87.9685	1.3604e-01	1.9002e+00
40	TAF125136	87.4536	88.6018	88.1409	2.6065e-01	1.9002e+00
41	TAF130136	87.5491	88.2838	87.9147	1.6453e-01	1.9002e+00
42	TAF120048	87.8189	88.6636	88.2919	2.2077e-01	1.9002e+00
43	TAF130048	87.4142	88.3598	87.8934	1.7259e-01	1.9002e+00
44	TAF120224	87.6148	88.3503	87.9763	1.7638e-01	1.9002e+00
45	TAF130224	86.9313	87.7744	87.4120	1.9066e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.5374	38.6870	38.1492	1.9492e-01	1.9010e+00
47	EMPTY	38.9168	39.6057	39.2337	1.3031e-01	1.9010e+00
48	TAF1130048	87.5127	88.8785	88.1475	3.0586e-01	1.9002e+00
49	TAF1130136	86.9173	87.8625	87.4507	2.1904e-01	1.9002e+00
50	TAF1130224	87.8618	89.0197	88.5145	2.6715e-01	1.9002e+00
51	TAF1130312	87.3337	88.0708	87.7338	1.9244e-01	1.9002e+00
52	TRR130000	85.8762	87.1356	86.4520	2.5361e-01	1.9002e+00
53	TSI000001	79.9715	80.8163	80.4197	1.8664e-01	1.9001e+00
54	TSI000002	75.6876	76.8498	76.2576	2.9295e-01	1.9000e+00
55	TSO000001	75.2936	76.1452	75.6430	1.6937e-01	1.9000e+00
56	TSO000002	75.6266	76.6877	76.1533	2.0670e-01	1.9000e+00
57	TAF020136	86.8966	87.6363	87.3235	1.7451e-01	1.9002e+00
58	TAF120312	87.1693	88.1158	87.5314	2.4570e-01	1.9002e+00
59	TAF130312	86.6636	87.5043	87.1766	1.9299e-01	1.9002e+00
60	EMPTY	0.4932	0.5078	0.5037	2.4878e-03	0.0000e+00
61	EMPTY	0.5176	0.5225	0.5182	1.6028e-03	0.0000e+00
62	EMPTY	0.5273	0.5322	0.5319	1.1714e-03	0.0000e+00
63	EMPTY	0.5420	0.5469	0.5466	1.1714e-03	0.0000e+00
64	EMPTY	0.3467	0.3467	0.3467	0.0000e+00	0.0000e+00
65	EMPTY	0.3662	0.3711	0.3706	1.4797e-03	0.0000e+00
66	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
67	EMPTY	0.4053	0.4053	0.4053	0.0000e+00	0.0000e+00
68	EMPTY	0.4199	0.4248	0.4201	9.6655e-04	0.0000e+00
69	EMPTY	0.4346	0.4443	0.4395	1.3951e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4542	6.9053e-04	0.0000e+00
71	EMPTY	0.4736	0.4785	0.4784	6.9053e-04	0.0000e+00
72	EMPTY	0.4883	0.4932	0.4931	6.9053e-04	0.0000e+00
73	EMPTY	0.5127	0.5176	0.5128	6.9053e-04	0.0000e+00
74	EMPTY	0.5225	0.5322	0.5279	1.8821e-03	0.0000e+00
75	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
76	EMPTY	0.5615	0.5664	0.5617	9.6655e-04	0.0000e+00
77	EMPTY	0.5811	0.5859	0.5817	1.7115e-03	0.0000e+00
78	EMPTY	0.6055	0.6055	0.6055	0.0000e+00	0.0000e+00
79	EMPTY	0.6250	0.6445	0.6301	2.1970e-03	0.0000e+00
80	PAN020136	-16.7610	-16.5322	-16.6817	6.1578e-02	8.7100e-01
81	PAN050136	-32.4523	-31.8419	-32.1562	1.2101e-01	1.6819e+00
82	PAN070136	-21.6613	-21.3561	-21.4736	6.9293e-02	8.7165e-01
83	PAN080136	-10.9510	-10.6458	-10.8121	7.6589e-02	8.7042e-01
84	PAN090136	-10.8526	-10.7001	-10.7718	4.9732e-02	8.7042e-01
85	PAN100136	-10.9407	-10.7881	-10.8903	4.7782e-02	8.7043e-01
86	PAN105136	-5.4410	-5.2121	-5.3479	6.4092e-02	8.7010e-01
87	PAN110136	-5.3089	-5.0800	-5.1975	7.2641e-02	8.7010e-01
88	PAN115136	-5.3178	-5.0126	-5.1942	6.5195e-02	8.7010e-01
89	PAN120136	-5.4893	-5.2605	-5.4146	6.0664e-02	8.7011e-01
90	PAN125136	-5.5304	-5.3015	-5.3809	7.3857e-02	8.7010e-01
91	PAN130136	-5.3794	-5.1506	-5.2604	6.9207e-02	8.7010e-01
92	PAN120048	-11.5672	-11.3383	-11.4741	5.8267e-02	8.7047e-01
93	PAN130048	-10.6018	-10.3729	-10.5087	5.1791e-02	8.7040e-01
94	PAN120224	-10.7895	-10.5606	-10.6736	6.3999e-02	8.7041e-01
95	PAN130224	-10.7587	-10.5298	-10.6534	5.0865e-02	8.7041e-01
96	PAN120312	-10.8350	-10.5931	-10.6931	6.7204e-02	8.7041e-01
97	PAN130312	-10.8379	-10.5327	-10.7357	5.8916e-02	8.7041e-01
98	PAB000136	20.0972	20.2345	20.1686	3.7177e-02	5.8219e-01
99	PAB100136	23.8517	23.9891	23.9213	3.6104e-02	5.8307e-01
100	PAB125136	24.7488	24.8861	24.8083	3.8411e-02	5.8331e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	19.9159	20.0379	20.0160	4.7374e-02	7.5167e-01
102	PRV000001	24.4677	24.5897	24.5873	1.7263e-02	7.5251e-01
103	PSR000001	25.2542	25.6204	25.3372	7.1647e-02	7.5267e-01
104	PFM000001	1.2518	1.4349	1.3250	6.4074e-02	5.0001e-01
105	PAN000136	-135.1984	-134.7407	-135.1801	9.0614e-02	4.9316e+00
106	PFM000002	1.3198	1.3701	1.3366	1.3977e-02	2.0003e-01
107	EMPTY	-0.0049	0.0098	-0.0009	4.0301e-03	0.0000e+00
108	EMPTY	-10.0000	-0.9717	-7.8572	2.4510e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0004	1.3381e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0688	1.1578e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0405	1.1161e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0503	1.0625e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0213	9.1354e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0102	8.8321e-02	8.1000e-01
117	VPW000006	-0.0413	0.1540	0.0720	9.7377e-02	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.4641	1.0938e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.5359	1.4623e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2970	1.0393e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.2051	2.7621e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0281	2.9591e-01	2.0000e+00
123	IPW000006	-0.5540	0.4226	0.1101	2.9197e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0193	3.9410e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0138	3.0708e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0159	2.9280e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0149	3.4751e-03	0.0000e+00
128	IHT0000001	-0.1503	0.0451	0.0021	8.1729e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0043	7.7324e-02	4.1000e+00
130	IHT0000003	-0.3944	0.1916	-0.0116	8.7880e-02	4.1000e+00
131	IHT0000004	-0.0901	0.3005	0.0232	1.1223e-01	4.1000e+00
132	IHT0000005	-0.0789	0.1164	0.0227	9.8569e-02	4.1000e+00
133	IHT0000006	-0.1239	0.0714	-0.0068	9.6655e-02	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0162	9.1354e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0290	9.4702e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	0.0077	4.8166e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0254	9.5765e-02	4.1000e+00
138	IHT0000011	-0.0338	0.1615	0.0287	9.2034e-02	4.1000e+00
139	IHT0000012	-0.0864	0.3042	0.0113	1.0625e-01	4.1000e+00
140	IHT0000013	-0.3531	0.2329	-0.0093	1.0106e-01	4.1000e+00
141	IHT0000014	-0.0639	0.3268	0.0416	1.0595e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	0.0042	6.1257e-02	4.1000e+00
143	IHT0000016	-0.0638	0.1315	0.0104	9.5765e-02	4.1000e+00
144	IHT0000017	-0.4582	0.5183	0.0535	2.6730e-01	4.1000e+00
145	IHT0000018	-0.3117	0.0789	-0.0266	1.0595e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.1922	1.0320e-01	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0316	9.8648e-02	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0182	1.0507e-01	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0314	9.2034e-02	4.1000e+00
150	IHT0000023	-0.0113	0.1840	0.0161	6.8459e-02	4.1000e+00
151	IHT0000024	0.0376	0.2329	0.0883	8.6541e-02	4.1000e+00
152	IHT0000025	-0.0488	0.1465	-0.0137	7.5798e-02	4.1000e+00
153	IHT0000026	-0.1803	0.4057	0.0229	8.7880e-02	4.1000e+00
154	IHT0000027	-0.0113	0.1840	0.0200	7.2330e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	-0.0279	1.2027e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0413	0.1540	-0.0140	6.8459e-02	4.1000e+00
157	IHT0000030	-0.1878	0.2028	0.0153	6.7888e-02	4.1000e+00
158	IHT0000031	-0.2442	0.3418	0.0097	1.0625e-01	4.1000e+00
159	IHT0000032	-0.0451	0.1502	-0.0021	8.1729e-02	4.1000e+00
160	IHT0000033	-0.0376	0.3531	0.0015	8.8233e-02	4.1000e+00
161	IHT0000034	-0.1765	0.2141	0.0071	7.2866e-02	4.1000e+00
162	IHT0000035	-0.2216	0.1690	0.0089	8.5454e-02	4.1000e+00
163	IHT0000036	-0.0939	0.2967	0.0037	1.0625e-01	4.1000e+00

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Velocity 1 - 2.0468 (ft/sec) (+/- 42.0890 %)
 Velocity 2 - 2.0918 (ft/sec) (+/- 14.5637 %)
 Pressure drop - -5.1625 (psi)
 Tsat in - 227.4664 (deg F) Tsat out - 239.6393 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 3766.3669 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 4041.4355 %)
 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	73.8393	74.4796	74.2064	1.8313e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	73.9897	1.3217e-01	1.9000e+00
2	TFH0000001	87.8929	88.8381	88.3529	2.1727e-01	1.9002e+00
3	TIN0000001	87.1046	87.7362	87.4308	1.5957e-01	1.9002e+00
4	TRV0000001	87.0518	87.9953	87.5696	2.2041e-01	1.9002e+00
5	TSR0000001	86.8456	87.7888	87.2956	1.8282e-01	1.9002e+00
6	TAO020136	80.0536	81.1121	80.5977	2.4392e-01	1.9001e+00
7	TAO050136	87.3332	88.1727	87.7592	1.9009e-01	1.9002e+00
8	TAO070136	87.3521	88.1950	87.7166	1.9427e-01	1.9002e+00
9	TAO080136	87.3376	87.9681	87.6723	1.7183e-01	1.9002e+00
10	TAO090136	87.8063	88.7501	88.2952	1.3772e-01	1.9002e+00
11	TAO100136	87.2643	87.8957	87.5614	1.4984e-01	1.9002e+00
12	TAO105136	88.1911	89.0329	88.6395	2.2369e-01	1.9002e+00
13	TAO110136	87.5319	88.3696	87.9828	1.7738e-01	1.9002e+00
14	TAO115136	87.5929	88.6447	88.1335	2.3663e-01	1.9002e+00
15	TAO120136	87.2100	87.9467	87.6962	1.5174e-01	1.9002e+00
16	TAO125136	87.8472	88.7926	88.3914	1.7462e-01	1.9002e+00
17	TAO130136	87.2745	87.9026	87.5756	1.5229e-01	1.9002e+00
18	TAO130048	74.0266	74.7712	74.4203	1.8004e-01	1.9000e+00
19	TAO130048	87.0410	87.6715	87.4125	1.4909e-01	1.9002e+00
20	TAO120224	87.3593	88.2005	87.8031	1.7426e-01	1.9002e+00
21	TAO130224	87.4189	88.2564	87.7897	1.7594e-01	1.9002e+00
22	TAO120312	87.4470	88.1839	87.8534	1.6741e-01	1.9002e+00
23	TAO130312	87.3184	87.8451	87.6154	1.3392e-01	1.9002e+00
24	TAT020000	87.8263	88.7740	88.2750	2.0934e-01	1.9002e+00
25	TAT070000	87.7082	88.4474	88.0567	1.7081e-01	1.9002e+00
26	TAT100000	87.8696	88.6046	88.3043	1.8950e-01	1.9002e+00
27	TAT120000	87.6757	88.4115	88.0144	1.6625e-01	1.9002e+00
28	TAT125000	87.6613	88.4999	88.0535	2.0823e-01	1.9002e+00
29	TAT130000	87.4782	88.2142	87.8171	1.6897e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6286	2.0870e-01	1.9011e+00
31	TAF050136	87.9224	88.6578	88.3530	1.7257e-01	1.9002e+00
32	TAF070136	88.1244	88.9611	88.5821	2.0374e-01	1.9002e+00
33	TAF080136	87.7804	88.5128	88.1384	1.5867e-01	1.9002e+00
34	TAF090136	74.1536	75.3206	74.7454	2.9531e-01	1.9000e+00
35	TAF100136	87.6348	88.4767	88.0704	1.8542e-01	1.9002e+00
36	TAF105136	87.3256	88.5795	87.9377	2.4236e-01	1.9002e+00
37	TAF110136	87.4631	88.1971	87.8212	1.7236e-01	1.9002e+00
38	TAF115136	88.0611	88.6912	88.3866	1.8506e-01	1.9002e+00
39	TAF120136	87.8912	88.4176	88.1756	1.3485e-01	1.9002e+00
40	TAF125136	87.8696	88.8099	88.2723	2.3483e-01	1.9002e+00
41	TAF130136	87.6535	88.3893	88.0635	1.7523e-01	1.9002e+00
42	TAF120048	87.9252	88.8740	88.4841	1.8361e-01	1.9002e+00
43	TAF130048	87.6238	88.4644	88.0465	1.8562e-01	1.9002e+00
44	TAF120224	87.6153	88.5596	88.1251	2.3607e-01	1.9002e+00
45	TAF130224	87.2476	87.9857	87.5997	1.6439e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	2.0246e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2016	9.9068e-02	1.9010e+00
48	TAI130048	87.6178	88.8779	88.3218	3.0008e-01	1.9002e+00
49	TAI130136	87.1266	87.9667	87.6036	2.0682e-01	1.9002e+00
50	TAI130224	88.0728	89.2294	88.6597	2.8830e-01	1.9002e+00
51	TAI130312	87.4390	88.2809	87.8790	1.9897e-01	1.9002e+00
52	TRI130000	86.0875	86.9262	86.5674	2.0333e-01	1.9002e+00
53	TSI0000001	80.0772	80.7119	80.3335	1.7613e-01	1.9001e+00
54	TSI0000002	75.6863	76.8498	76.3233	2.3454e-01	1.9000e+00
55	TSO0000001	75.2936	76.1455	75.7176	2.0229e-01	1.9000e+00
56	TSO0000002	75.7132	76.6882	76.2530	1.9202e-01	1.9000e+00
57	TAF020136	87.2137	87.9527	87.4906	1.5207e-01	1.9002e+00
58	TAF120312	87.0645	88.2206	87.6805	2.9858e-01	1.9002e+00
59	TAF130312	86.9784	87.8194	87.3718	1.8608e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5079	6.9053e-04	0.0000e+00
61	EMPTY	0.5225	0.5273	0.5227	9.6655e-04	0.0000e+00
62	EMPTY	0.5322	0.5371	0.5335	2.1635e-03	0.0000e+00
63	EMPTY	0.5469	0.5518	0.5493	2.4662e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3517	6.9053e-04	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3748	2.1065e-03	0.0000e+00
66	EMPTY	0.3906	0.3906	0.3906	0.0000e+00	0.0000e+00
67	EMPTY	0.4053	0.4102	0.4101	6.9053e-04	0.0000e+00
68	EMPTY	0.4248	0.4248	0.4248	0.0000e+00	0.0000e+00
69	EMPTY	0.4395	0.4492	0.4442	1.2041e-03	0.0000e+00
70	EMPTY	0.4541	0.4590	0.4589	6.9053e-04	0.0000e+00
71	EMPTY	0.4785	0.4834	0.4833	6.9053e-04	0.0000e+00
72	EMPTY	0.4932	0.4980	0.4978	1.1714e-03	0.0000e+00
73	EMPTY	0.5176	0.5176	0.5176	0.0000e+00	0.0000e+00
74	EMPTY	0.5322	0.5371	0.5328	1.6028e-03	0.0000e+00
75	EMPTY	0.5518	0.5518	0.5518	0.0000e+00	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5665	6.9053e-04	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5860	6.9053e-04	0.0000e+00
78	EMPTY	0.6055	0.6152	0.6104	9.8648e-04	0.0000e+00
79	EMPTY	0.6299	0.6396	0.6348	9.8648e-04	0.0000e+00
80	PAN020136	-17.7529	-17.6003	-17.6766	5.5575e-02	8.7112e-01
81	PAN050136	-34.1307	-33.8255	-34.0026	1.2082e-01	1.6821e+00
82	PAN070136	-22.8057	-22.5768	-22.6928	6.3999e-02	8.7185e-01
83	PAN080136	-11.5613	-11.2562	-11.3843	7.3016e-02	8.7047e-01
84	PAN090136	-11.4630	-11.2341	-11.3546	5.7858e-02	8.7046e-01
85	PAN100136	-11.5510	-11.2459	-11.4183	5.9318e-02	8.7047e-01
86	PAN105136	-5.7462	-5.5173	-5.6119	6.9891e-02	8.7011e-01
87	PAN110136	-5.6141	-5.3089	-5.4783	6.7698e-02	8.7011e-01
88	PAN115136	-5.6230	-5.3941	-5.5009	6.8932e-02	8.7011e-01
89	PAN120136	-5.9471	-5.6419	-5.7823	7.7621e-02	8.7012e-01
90	PAN125136	-5.8356	-5.5304	-5.7242	7.4258e-02	8.7012e-01
91	PAN130136	-5.6846	-5.5320	-5.6144	4.3158e-02	8.7011e-01
92	PAN120048	-12.0250	-11.9487	-11.9899	3.8411e-02	8.7052e-01
93	PAN130048	-11.2121	-10.9832	-11.1053	6.3552e-02	8.7044e-01
94	PAN120224	-11.3236	-11.0947	-11.2076	5.1676e-02	8.7045e-01
95	PAN130224	-11.4454	-11.1402	-11.2913	7.4705e-02	8.7046e-01
96	PAN120312	-11.4454	-11.2165	-11.3065	7.0111e-02	8.7046e-01
97	PAN130312	-11.5246	-11.2194	-11.3430	8.7043e-02	8.7046e-01
98	PAB000136	19.8225	19.9598	19.9067	3.6245e-02	5.8213e-01
99	PAB100136	23.8517	23.9433	23.8948	3.6304e-02	5.8307e-01
100	PAB125136	24.7946	24.8861	24.8422	3.9193e-02	5.8332e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	19.7938	19.9159	19.8304	5.6508e-02	7.5164e-01
102	PRV000001	24.5897	24.5897	24.5897	7.7069e-06	7.5252e-01
103	PSR000001	25.3763	25.4983	25.3836	2.9284e-02	7.5268e-01
104	PFH000001	0.4278	0.7025	0.5944	7.5564e-02	5.0000e-01
105	PAN000136	143.4382	142.5226	142.9255	1.7644e-01	4.9330e+00
106	PFH000002	0.5983	0.6318	0.6221	9.0266e-03	2.0001e-01
107	EMPTY	-0.0049	0.0049	-0.0019	3.6765e-03	0.0000e+00
108	EMPTY	-10.0000	-2.1680	-7.9770	2.0208e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0004	1.9331e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0003	1.1714e-03	0.0000e+00
112	VPW000001	-0.0601	0.1352	0.0180	9.6655e-02	8.1000e-01
113	VPW000002	-0.0376	0.3530	0.0718	1.1942e-01	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0425	1.0885e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0135	9.6655e-02	8.1000e-01
116	VPW000005	-0.1577	0.2329	-0.0484	1.0559e-01	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0837	1.1679e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.7765	1.1574e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.1666	1.3679e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2580	1.1425e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1562	2.5515e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1062	3.1749e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0515	3.3540e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0191	3.0945e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0126	2.6267e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.9594e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0146	3.4173e-03	0.0000e+00
128	IHT000001	-0.1503	0.0451	-0.0057	8.6541e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0043	8.6810e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0041	5.5243e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	-0.0198	9.4702e-02	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0344	1.0507e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0245	9.3043e-02	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0123	8.8321e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0407	9.7377e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0116	6.7888e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	-0.0020	8.4262e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	-0.0026	7.2330e-02	4.1000e+00
139	IHT000012	-0.0864	0.1089	0.0035	9.8332e-02	4.1000e+00
140	IHT000013	-0.1578	0.0376	-0.0288	9.3461e-02	4.1000e+00
141	IHT000014	-0.2592	0.1314	0.0221	1.0559e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0003	5.5243e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0338	9.8648e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0808	2.6043e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0383	1.2478e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1453	1.0705e-01	4.1000e+00
147	IHT000020	-0.3005	0.2855	0.0433	1.1545e-01	4.1000e+00
148	IHT000021	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
149	IHT000022	-0.0939	0.2967	-0.0041	1.0595e-01	4.1000e+00
150	IHT000023	-0.0113	0.1840	0.0278	7.8918e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0844	9.3043e-02	4.1000e+00
152	IHT000025	-0.0488	0.1465	-0.0137	7.5798e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0189	8.3612e-02	4.1000e+00
154	IHT000027	-0.2066	0.1840	0.0122	8.4997e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0123	9.6735e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0212	1.0763e-01	4.1000e+00
157	IHT000030	-0.1878	0.2028	0.0192	9.9902e-02	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0176	1.2853e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0291	1.0358e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0328	1.0259e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0149	9.2456e-02	4.1000e+00
162	IHT000035	-0.2216	0.3643	0.0401	1.1578e-01	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0037	1.1334e-01	4.1000e+00

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Velocity 1 - 5.0060 (ft/sec) (+/- 6.8742 %)
 Velocity 2 - 4.9911 (ft/sec) (+/- 2.9371 %)
 Pressure drop - -4.0725 (psi)
 Tstat in - 230.4588 (deg F) Tstat out - 239.8261 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 2269.7393 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 1785.1346 %)
 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	73.8393	74.4796	74.1338	1.6070e-01	1.9000e+00
1	TRF0000002	73.7731	74.1978	74.0449	1.4255e-01	1.9000e+00
2	TFM0000001	87.8929	88.8376	88.4198	2.2980e-01	1.9002e+00
3	TIN0000001	87.1046	87.9465	87.4769	1.5363e-01	1.9002e+00
4	TRV0000001	87.3661	88.5182	87.7241	2.1267e-01	1.9002e+00
5	TSR0000001	87.1579	87.6833	87.4167	1.3452e-01	1.9002e+00
6	TAO020136	80.2648	81.1122	80.6145	2.1306e-01	1.9001e+00
7	TAO050136	87.5422	88.3815	87.9136	1.7237e-01	1.9002e+00
8	TAO070136	87.4572	88.3003	87.9273	1.7835e-01	1.9002e+00
9	TAO080136	87.4432	88.0731	87.7973	1.5258e-01	1.9002e+00
10	TAO090136	88.0153	88.8556	88.4877	2.0682e-01	1.9002e+00
11	TAO100136	87.3693	88.0007	87.7332	1.5050e-01	1.9002e+00
12	TAO105136	88.4019	89.2431	88.8118	2.1162e-01	1.9002e+00
13	TAO110136	87.8456	88.5771	88.1865	1.5222e-01	1.9002e+00
14	TAO115136	88.0130	88.7494	88.3857	1.9496e-01	1.9002e+00
15	TAO120136	87.6301	88.1567	87.8681	1.3743e-01	1.9002e+00
16	TAO125136	88.1622	88.8965	88.5420	1.4373e-01	1.9002e+00
17	TAO130136	87.3801	88.2150	87.7450	1.4802e-01	1.9002e+00
18	TAO120048	74.1328	74.6645	74.3522	1.3820e-01	1.9000e+00
19	TAO130048	87.4590	87.8807	87.6424	1.2355e-01	1.9002e+00
20	TAO120224	87.6747	88.2005	87.9666	1.3814e-01	1.9002e+00
21	TAO130224	87.6269	88.2538	87.9725	1.5405e-01	1.9002e+00
22	TAO120312	87.6576	88.2887	88.0173	1.6061e-01	1.9002e+00
23	TAO130312	87.4234	88.0544	87.7869	1.4439e-01	1.9002e+00
24	TAT020000	87.9319	88.8792	88.4307	1.8995e-01	1.9002e+00
25	TAT070000	87.9196	88.5523	88.2425	1.5565e-01	1.9002e+00
26	TAT100000	88.1839	88.9187	88.5175	1.8304e-01	1.9002e+00
27	TAT120000	87.8853	88.5164	88.1610	1.5584e-01	1.9002e+00
28	TAT125000	87.8699	88.7083	88.2200	2.0118e-01	1.9002e+00
29	TAT130000	87.7927	88.3182	87.9845	1.2514e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5827	2.2362e-01	1.9011e+00
31	TAF050136	88.1329	88.8667	88.4698	1.7505e-01	1.9002e+00
32	TAF070136	88.4361	89.2745	88.7821	1.8815e-01	1.9002e+00
33	TAF080136	87.9882	88.6178	88.2589	1.7319e-01	1.9002e+00
34	TAF090136	74.2598	75.3206	74.7664	2.5013e-01	1.9000e+00
35	TAF100136	87.8448	88.4767	88.2049	1.7154e-01	1.9002e+00
36	TAF105136	87.6384	88.7875	88.1706	2.7429e-01	1.9002e+00
37	TAF110136	87.5666	88.3005	87.9422	1.5448e-01	1.9002e+00
38	TAF115136	87.9567	89.1095	88.5033	2.4355e-01	1.9002e+00
39	TAF120136	87.9967	88.6265	88.3592	1.3116e-01	1.9002e+00
40	TAF125136	87.7646	89.0179	88.3845	2.7284e-01	1.9002e+00
41	TAF130136	87.9678	88.5985	88.2140	1.6504e-01	1.9002e+00
42	TAF120048	88.0308	89.0851	88.6445	2.3988e-01	1.9002e+00
43	TAF130048	87.7293	88.5693	88.1720	1.7524e-01	1.9002e+00
44	TAF120224	87.8248	88.6630	88.2673	1.9686e-01	1.9002e+00
45	TAF130224	87.4588	88.0910	87.7345	1.5916e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	2.1367e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2750	1.2414e-01	1.9010e+00
48	TAI130048	87.8282	89.0882	88.5524	2.9777e-01	1.9002e+00
49	TAI130136	87.3372	88.0717	87.7331	1.6988e-01	1.9002e+00
50	TAI130224	88.2832	89.4397	88.9203	2.8141e-01	1.9002e+00
51	TAI130312	87.7548	88.4905	88.0848	1.6319e-01	1.9002e+00
52	TBI130000	86.4009	87.5543	86.7348	2.0820e-01	1.9002e+00
53	TSI000001	79.9727	80.7119	80.2996	1.6424e-01	1.9001e+00
54	TSI000002	75.6863	76.7451	76.2175	3.0925e-01	1.9000e+00
55	TSO0000001	75.4002	76.2515	75.8196	1.9632e-01	1.9000e+00
56	TSO0000002	75.7332	76.4758	76.1935	1.7228e-01	1.9000e+00
57	TAF020136	87.3196	87.8480	87.5919	1.5241e-01	1.9002e+00
58	TAF120312	87.3800	88.5346	87.8860	2.6897e-01	1.9002e+00
59	TAF130312	87.2931	87.9234	87.5519	1.5043e-01	1.9002e+00
60	EMPTY	0.5078	0.5127	0.5124	1.1714e-03	0.0000e+00
61	EMPTY	0.5225	0.5322	0.5272	1.2041e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5384	2.1635e-03	0.0000e+00
63	EMPTY	0.5518	0.5566	0.5536	2.3941e-03	0.0000e+00
64	EMPTY	0.3516	0.3613	0.3546	2.5894e-03	0.0000e+00
65	EMPTY	0.3711	0.3809	0.3760	9.8648e-04	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3919	2.1635e-03	0.0000e+00
67	EMPTY	0.4053	0.4150	0.4108	1.9754e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4252	1.3381e-03	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4445	9.6655e-04	0.0000e+00
70	EMPTY	0.4590	0.4688	0.4613	2.8317e-03	0.0000e+00
71	EMPTY	0.4785	0.4883	0.4837	1.5314e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
73	EMPTY	0.5176	0.5273	0.5195	2.6100e-03	0.0000e+00
74	EMPTY	0.5322	0.5371	0.5365	1.6028e-03	0.0000e+00
75	EMPTY	0.5518	0.5566	0.5531	2.2146e-03	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5693	2.4164e-03	0.0000e+00
77	EMPTY	0.5859	0.5957	0.5901	1.9754e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6108	1.4797e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6354	1.7115e-03	0.0000e+00
80	PAN020136	-14.0145	-13.7856	-13.9122	7.6465e-02	8.7069e-01
81	PAN050136	-26.9591	-26.5013	-26.7089	1.1435e-01	1.6813e+00
82	PAN070136	-18.1518	-17.8466	-18.0053	6.8656e-02	8.7116e-01
83	PAN080136	-9.1199	-8.8911	-8.9902	6.7627e-02	8.7029e-01
84	PAN090136	-9.0979	-8.8690	-8.9911	6.8932e-02	8.7029e-01
85	PAN100136	-9.4911	-9.2622	-9.3660	5.2858e-02	8.7032e-01
86	PAN105136	-4.5255	-4.3729	-4.4644	5.1121e-02	8.7007e-01
87	PAN110136	-4.4697	-4.2408	-4.3354	5.4626e-02	8.7007e-01
88	PAN115136	-4.4023	-4.1734	-4.2695	5.2970e-02	8.7007e-01
89	PAN120136	-4.4975	-4.3449	-4.4212	5.7673e-02	8.7007e-01
90	PAN125136	-4.6149	-4.2334	-4.3753	6.8949e-02	8.7007e-01
91	PAN130136	-4.5402	-4.3876	-4.4899	4.5228e-02	8.7007e-01
92	PAN120048	-9.8124	-9.5836	-9.7072	5.5339e-02	8.7034e-01
93	PAN130048	-8.7707	-8.5418	-8.6258	6.2135e-02	8.7027e-01
94	PAN120224	-9.2636	-9.0348	-9.1172	6.6903e-02	8.7030e-01
95	PAN130224	-8.9277	-8.7751	-8.8453	6.1346e-02	8.7028e-01
96	PAN120312	-9.0040	-8.8514	-8.9063	5.5660e-02	8.7028e-01
97	PAN130312	-9.0069	-8.7780	-8.8955	5.6022e-02	8.7028e-01
98	PAB000136	20.9669	21.1500	21.0466	4.2189e-02	5.8238e-01
99	PAB100136	24.1264	24.2637	24.2124	4.3022e-02	5.8135e-01
100	PAB125136	24.8403	24.9777	24.9246	3.8533e-02	5.8134e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	20.8924	21.0145	20.9632	6.0861e-02	7.5183e-01
102	PRV000001	24.5897	24.5897	24.5897	7.7069e-06	7.5252e-01
103	PSR000001	25.2542	25.6204	25.3543	6.8390e-02	7.5267e-01
104	PFH000001	3.5406	3.9068	3.7494	8.4842e-02	5.0009e-01
105	PAN000136	-113.2258	-112.3102	-112.7497	1.2948e-01	4.9281e+00
106	PFH000002	3.6522	3.7696	3.7267	2.5405e-02	2.0022e-01
107	EMPTY	-0.0049	0.0049	0.0016	3.9998e-03	0.0000e+00
108	EMPTY	-10.0000	-2.9639	-8.2865	1.8702e+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	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPM000001	-0.2554	0.3305	0.0180	1.1161e-01	8.1000e-01
113	VPM000002	-0.0376	0.1577	0.0718	9.7935e-02	8.1000e-01
114	VPM000003	-0.2817	0.1089	-0.0044	1.0507e-01	8.1000e-01
115	VPM000004	-0.2479	0.1427	-0.0252	1.0447e-01	8.1000e-01
116	VPM000005	-0.1577	0.2329	-0.0288	1.2232e-01	8.1000e-01
117	VPM000006	-0.0413	0.3493	0.0954	1.0625e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.8545	1.1760e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.2446	1.2189e+00	8.1000e+00
120	IPW000003	-1.5750	4.2750	0.4920	1.2085e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.2051	2.1702e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0184	3.6228e-01	2.0000e+00
123	IPW000006	-0.5540	0.4226	0.1101	3.0819e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0194	3.6232e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0128	2.7709e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0160	2.9660e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0154	2.8523e-03	0.0000e+00
128	IHT000001	-0.3456	0.2404	0.0138	9.9512e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	0.0239	9.4125e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	-0.0038	7.8918e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0192	1.1272e-01	4.1000e+00
132	IHT000005	-0.0789	0.1164	0.0617	8.8585e-02	4.1000e+00
133	IHT000006	-0.3193	0.0714	0.0167	9.6976e-02	4.1000e+00
134	IHT000007	-0.0150	0.1803	0.0201	7.5798e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0485	9.8332e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0041	6.7888e-02	4.1000e+00
137	IHT000010	-0.0488	0.1465	0.0176	9.3461e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0209	8.8585e-02	4.1000e+00
139	IHT000012	-0.2817	0.3042	0.0074	1.1327e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	-0.0210	9.8648e-02	4.1000e+00
141	IHT000014	-0.0639	0.1314	0.0494	9.7377e-02	4.1000e+00
142	IHT000015	-0.0075	0.1878	0.0042	4.6855e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0377	9.8569e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	-0.0325	2.8913e-01	4.1000e+00
145	IHT000018	-0.1164	0.2742	0.0125	1.1578e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.1765	8.8233e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0511	1.0440e-01	4.1000e+00
148	IHT000021	-0.2591	0.3268	0.0416	1.1306e-01	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0080	9.7935e-02	4.1000e+00
150	IHT000023	-0.0113	0.1840	0.0434	8.8585e-02	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.0922	9.6976e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0215	7.9017e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0150	5.5804e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0317	8.1729e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0006	1.1732e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.2366	0.1540	-0.0023	8.8233e-02	4.1000e+00
157	IHT000030	-0.1878	0.5935	0.0349	1.3093e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0449	1.2627e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0057	9.5112e-02	4.1000e+00
160	IHT000033	-0.2329	0.3531	0.0093	1.0106e-01	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0188	1.1161e-01	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0128	9.6655e-02	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0272	9.5765e-02	4.1000e+00

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Velocity 1 - 7.0130 (ft/sec) (+/- 3.7542 %)
 Velocity 2 - 6.9511 (ft/sec) (+/- 2.0767 %)
 Pressure drop - -2.9528 (psi)
 Tsat in - 233.6485 (deg F) Tsat out - 240.2293 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 9540.2051 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 1241.2188 %)
 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	73.8393	74.9062	74.2277	1.9610e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0279	1.4862e-01	1.9000e+00
2	TFH000001	87.9979	88.9442	88.5333	2.2371e-01	1.9002e+00
3	TIN000001	87.2094	87.9473	87.6034	1.5015e-01	1.9002e+00
4	TRV000001	87.5737	88.3112	88.0380	1.9320e-01	1.9002e+00
5	TSR000001	87.3676	87.9998	87.7308	1.5047e-01	1.9002e+00
6	TMO020136	80.1592	81.5359	80.7840	2.7992e-01	1.9001e+00
7	TMO050136	87.7516	88.4848	88.0728	1.6882e-01	1.9002e+00
8	TMO070136	87.5631	88.8274	88.0835	2.0350e-01	1.9002e+00
9	TMO080136	87.6515	88.4927	87.9481	1.8799e-01	1.9002e+00
10	TMO090136	88.1198	89.0650	88.6305	1.8604e-01	1.9002e+00
11	TMO100136	87.4741	88.2117	87.9389	1.6332e-01	1.9002e+00
12	TMO105136	88.4019	89.4539	88.9254	2.3419e-01	1.9002e+00
13	TMO110136	87.9481	88.8904	88.3535	1.9728e-01	1.9002e+00
14	TMO115136	88.1183	88.8549	88.4868	2.1588e-01	1.9002e+00
15	TMO120136	87.5251	88.5775	87.9524	1.6390e-01	1.9002e+00
16	TMO125136	88.3712	89.0035	88.6931	1.5510e-01	1.9002e+00
17	TMO130136	87.5870	88.4260	87.9113	1.5992e-01	1.9002e+00
18	TMO130048	74.6633	75.6207	75.0950	1.8891e-01	1.9000e+00
19	TMO130048	87.4596	88.0917	87.7976	1.6754e-01	1.9002e+00
20	TMO120224	87.7790	88.5151	88.1179	1.8308e-01	1.9002e+00
21	TMO130224	87.8348	88.4674	88.1435	1.7890e-01	1.9002e+00
22	TMO120312	87.7629	88.4994	88.1520	1.8683e-01	1.9002e+00
23	TMO130312	87.5328	88.2654	87.9757	1.8485e-01	1.9002e+00
24	TMT020000	88.0371	89.0900	88.5529	2.0975e-01	1.9002e+00
25	TMT070000	88.0251	88.7633	88.3819	1.7286e-01	1.9002e+00
26	TMT100000	88.1832	89.1296	88.6476	2.0007e-01	1.9002e+00
27	TMT120000	87.9900	88.7274	88.3541	1.7792e-01	1.9002e+00
28	TMT125000	87.8699	88.7108	88.3206	2.1709e-01	1.9002e+00
29	TMT130000	87.7927	88.6346	88.1607	2.0713e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.5919	2.4719e-01	1.9011e+00
31	TAF050136	88.2364	88.8687	88.6040	1.9107e-01	1.9002e+00
32	TAF070136	88.4361	89.4853	88.9035	2.2992e-01	1.9002e+00
33	TAF080136	88.0914	89.0368	88.4801	1.8842e-01	1.9002e+00
34	TAF090136	74.2594	75.5338	74.8768	3.1096e-01	1.9000e+00
35	TAF100136	87.9502	88.7919	88.3524	1.9565e-01	1.9002e+00
36	TAF105136	87.7422	88.5823	88.2295	2.4639e-01	1.9002e+00
37	TAF110136	87.775e	88.6170	88.1140	1.8522e-01	1.9002e+00
38	TAF115136	88.1649	89.1112	88.6585	2.3330e-01	1.9002e+00
39	TAF120136	88.1001	88.8374	88.5100	1.6597e-01	1.9002e+00
40	TAF125136	87.9722	89.2287	88.5723	2.6655e-01	1.9002e+00
41	TAF130136	88.0733	88.8094	88.3608	1.7977e-01	1.9002e+00
42	TAF120048	88.2420	89.5070	88.7923	2.7141e-01	1.9002e+00
43	TAF130048	87.9383	88.9896	88.3441	1.9093e-01	1.9002e+00
44	TAF120224	88.1382	88.8755	88.4352	1.8332e-01	1.9002e+00
45	TAF130224	87.5638	88.3017	87.8779	1.9445e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1446	1.7844e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.1970	9.6091e-02	1.9010e+00
48	TAF130048	87.9332	89.1930	88.6030	3.3519e-01	1.9002e+00
49	TAF130136	87.4414	88.2827	87.9468	1.8796e-01	1.9002e+00
50	TAF130224	88.5985	89.4402	88.9962	2.4620e-01	1.9002e+00
51	TAF130312	87.8598	88.7006	88.2362	2.0274e-01	1.9002e+00
52	TAF130000	86.2965	87.4523	86.8817	2.5716e-01	1.9002e+00
53	TSI000001	79.9715	80.7137	80.3674	1.6237e-01	1.9001e+00
54	TSI000002	75.7923	76.8503	76.3066	2.7616e-01	1.9000e+00
55	TSO000001	75.6132	76.5711	76.0369	1.7913e-01	1.9000e+00
56	TSO000002	75.8387	76.7953	76.2785	1.8571e-01	1.9000e+00
57	TAF020136	87.2145	88.1637	87.7568	1.8707e-01	1.9002e+00
58	TAF120312	87.5899	88.5353	88.0163	2.6093e-01	1.9002e+00
59	TAF130312	87.2927	88.2400	87.7198	1.9026e-01	1.9002e+00
60	EMPTY	0.5127	0.5176	0.5148	2.4484e-03	0.0000e+00
61	EMPTY	0.5273	0.5371	0.5288	2.4662e-03	0.0000e+00
62	EMPTY	0.5371	0.5420	0.5419	6.9053e-04	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5568	9.6655e-04	0.0000e+00
64	EMPTY	0.3516	0.3613	0.3563	1.2041e-03	0.0000e+00
65	EMPTY	0.3760	0.3906	0.3764	2.1782e-03	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3943	2.1065e-03	0.0000e+00
67	EMPTY	0.4102	0.4150	0.4139	2.1065e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4275	2.4484e-03	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4448	1.4797e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4634	1.4797e-03	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4842	1.8082e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.4995	2.2603e-03	0.0000e+00
73	EMPTY	0.5176	0.5273	0.5213	2.3261e-03	0.0000e+00
74	EMPTY	0.5322	0.5469	0.5372	1.5566e-03	0.0000e+00
75	EMPTY	0.5518	0.5615	0.5551	2.5034e-03	0.0000e+00
76	EMPTY	0.5664	0.5713	0.5706	1.7115e-03	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5905	1.1714e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6121	2.3675e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6357	1.9730e-03	0.0000e+00
80	PAN020136	-10.1235	-9.8183	-9.9846	7.8125e-02	0.7036e-01
81	PAN050136	-19.6349	-19.0245	-19.4060	1.4211e-01	1.6807e+00
82	PAN070136	-13.2690	-12.9638	-13.1362	7.1984e-02	0.7062e-01
83	PAN080136	-6.8311	-6.5259	-6.6511	9.4716e-02	0.7016e-01
84	PAN090136	-6.5802	-6.2750	-6.4306	6.7116e-02	0.7015e-01
85	PAN100136	-7.3549	-7.0497	-7.1840	7.4816e-02	0.7019e-01
86	PAN105136	-3.4574	-3.1522	-3.2926	6.9550e-02	0.7004e-01
87	PAN110136	-3.1727	-2.9438	-3.0445	6.2497e-02	0.7003e-01
88	PAN115136	-3.1816	-2.8764	-3.0061	6.9362e-02	0.7003e-01
89	PAN120136	-3.2005	-2.8954	-3.0525	6.7908e-02	0.7003e-01
90	PAN125136	-3.2416	-2.9364	-3.0356	5.8185e-02	0.7003e-01
91	PAN130136	-3.3958	-3.2432	-3.3210	4.2184e-02	0.7004e-01
92	PAN120048	-7.4473	-7.1422	-7.3054	7.0651e-02	0.7019e-01
93	PAN130048	-6.2530	-6.0241	-6.1126	7.7621e-02	0.7013e-01
94	PAN120224	-7.1274	-6.8222	-6.9222	5.6107e-02	0.7018e-01
95	PAN130224	-6.4100	-6.1811	-6.2742	7.5966e-02	0.7014e-01
96	PAN120312	-6.5625	-6.2574	-6.4115	7.3097e-02	0.7015e-01
97	PAN130312	-6.4892	-6.2603	-6.3946	6.9891e-02	0.7015e-01
98	PAB000136	22.2487	22.3860	22.3118	3.8008e-02	5.8268e-01
99	PAB100136	24.5384	24.6757	24.6189	4.0902e-02	5.8326e-01
100	PAB125136	25.0234	25.1608	25.1031	4.5127e-02	5.8339e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	22.1131	22.2352	22.1400	5.1081e-02	7.5204e-01
102	PRV000001	24.3456	24.7118	24.5678	5.8828e-02	7.5251e-01
103	PSR000001	25.2542	25.3763	25.3665	3.3453e-02	7.5268e-01
104	PPH000001	7.2027	7.5689	7.4371	8.5084e-02	5.0035e-01
105	PAN000136	-82.0978	-81.1823	-81.7500	2.8595e-01	4.9242e+00
106	PPH000002	7.1256	7.4276	7.3048	7.3763e-02	2.0083e-01
107	EMPTY	0.0000	0.0049	0.0045	1.3381e-03	0.0000e+00
108	EMPTY	-10.0000	-2.5488	-8.0424	2.0631e+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	-0.4507	0.3305	0.0610	1.2469e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0523	1.0595e-01	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0152	1.0617e-01	8.1000e-01
115	VPW000004	-0.2479	0.3381	-0.0369	1.1049e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0102	1.0447e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.1071	1.1545e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.4641	1.0938e+00	8.1000e+00
119	IPW000002	-2.6642	1.2383	-0.2446	1.0839e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.3360	1.3923e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1562	2.3531e-01	2.0000e+00
122	IPW000005	-0.4681	1.0046	0.1648	3.2774e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0027	3.2733e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0202	3.2733e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0128	2.3941e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.6180e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0155	3.3728e-03	0.0000e+00
128	INT000001	-0.1503	0.2404	0.0255	9.0412e-02	4.1000e+00
129	INT000002	-0.2066	0.1840	0.0161	7.9017e-02	4.1000e+00
130	INT000003	-0.1991	0.1916	0.0080	8.2864e-02	4.1000e+00
131	INT000004	-0.0901	0.3005	0.0192	1.0559e-01	4.1000e+00
132	INT000005	-0.0789	0.3117	0.0461	1.0992e-01	4.1000e+00
133	INT000006	-0.1239	0.2667	0.0128	9.8648e-02	4.1000e+00
134	INT000007	-0.2104	0.3756	0.0123	1.1168e-01	4.1000e+00
135	INT000008	-0.0413	0.3493	0.0251	1.0145e-01	4.1000e+00
136	INT000009	-0.1916	0.1991	-0.0002	7.3716e-02	4.1000e+00
137	INT000010	-0.2442	0.3418	0.0254	1.1084e-01	4.1000e+00
138	INT000011	-0.0338	0.1615	0.0287	9.2034e-02	4.1000e+00
139	INT000012	-0.0864	0.3042	0.0874	1.0617e-01	4.1000e+00
140	INT000013	-0.1578	0.2329	-0.0328	1.0259e-01	4.1000e+00
141	INT000014	-0.0639	0.3268	0.0494	1.0507e-01	4.1000e+00
142	INT000015	-0.2028	0.1878	-0.0075	6.8345e-02	4.1000e+00
143	INT000016	-0.2592	0.1315	0.0377	1.0617e-01	4.1000e+00
144	INT000017	-0.4582	0.5183	0.0379	2.6237e-01	4.1000e+00
145	INT000018	-0.1164	0.2742	0.0086	1.0992e-01	4.1000e+00
146	INT000019	-0.3718	0.0188	-0.2195	1.1361e-01	4.1000e+00
147	INT000020	-0.1052	0.2855	0.0277	1.2124e-01	4.1000e+00
148	INT000021	-0.0638	0.1315	0.0377	9.8569e-02	4.1000e+00
149	INT000022	-0.0939	0.1014	0.0038	9.8648e-02	4.1000e+00
150	INT000023	-0.2066	0.1840	0.0161	8.8321e-02	4.1000e+00
151	INT000024	-0.1578	0.2329	0.1118	1.0358e-01	4.1000e+00
152	INT000025	-0.2442	0.3418	-0.0020	1.0106e-01	4.1000e+00
153	INT000026	-0.1803	0.2104	0.0150	6.8345e-02	4.1000e+00
154	INT000027	-0.0113	0.3793	0.0356	9.3043e-02	4.1000e+00
155	INT000028	-0.1803	0.2103	0.0307	1.0320e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.0413	0.3493	0.0251	1.0145e-01	4.1000e+00
157	INT000030	-0.1878	0.2028	0.0466	8.8233e-02	4.1000e+00
158	INT000031	-0.2442	0.3418	0.0566	1.1975e-01	4.1000e+00
159	INT000032	-0.0451	0.3455	0.0291	1.0358e-01	4.1000e+00
160	INT000033	-0.0376	0.3531	0.0367	1.0358e-01	4.1000e+00
161	INT000034	-0.1765	0.2141	0.0344	1.0320e-01	4.1000e+00
162	INT000035	-0.0263	0.1690	0.0558	9.7377e-02	4.1000e+00
163	INT000036	-0.0939	0.2967	0.0428	9.8648e-02	4.1000e+00

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Velocity 1 - 12.9891 (ft/sec) (+/- 1.9317 ft)
 Velocity 2 - 12.2585 (ft/sec) (+/- 1.7169 ft)
 Pressure drop - 1.9513 (psi)
 Tstat in - 246.2709 (deg F) Tstat out - 242.1307 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 218709.6250 ft)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 3877.2693 ft)
 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	73.8393	74.4796	74.2149	1.5280e-01	1.9000e+00
1	TRF000002	73.7731	74.4101	74.0619	1.2690e-01	1.9000e+00
2	TRF000001	88.2077	89.0472	88.6235	1.9318e-01	1.9002e+00
3	TIN000001	87.3150	88.0513	87.7148	1.5181e-01	1.9002e+00
4	TRV000001	87.7842	88.5182	88.1948	1.7013e-01	1.9002e+00
5	TSR000001	87.4712	88.2069	87.9461	1.3444e-01	1.9002e+00
6	TAO020136	80.4766	81.3238	80.9003	2.3230e-01	1.9001e+00
7	TAO050136	87.6461	88.5903	88.1459	1.7784e-01	1.9002e+00
8	TAO070136	87.6684	88.6165	88.1698	1.8129e-01	1.9002e+00
9	TAO080136	87.7570	88.4904	88.1255	1.4559e-01	1.9002e+00
10	TAO090136	88.3293	89.2743	88.6870	2.0974e-01	1.9002e+00
11	TAO100136	87.6838	88.2103	87.9788	1.4244e-01	1.9002e+00
12	TAO105136	88.7171	89.4532	89.0746	2.0151e-01	1.9002e+00
13	TAO110136	87.9481	88.8904	88.4472	1.7738e-01	1.9002e+00
14	TAO115136	87.9081	89.1697	88.5897	2.3770e-01	1.9002e+00
15	TAO120136	87.8401	88.3666	88.1098	1.3957e-01	1.9002e+00
16	TAO125136	88.4758	89.2108	88.8543	1.6826e-01	1.9002e+00
17	TAO130136	87.6884	88.4218	88.0831	1.4856e-01	1.9002e+00
18	TAO130048	74.8754	75.6195	75.2286	1.3822e-01	1.9000e+00
19	TAO130048	87.3540	88.1935	87.8960	1.3326e-01	1.9002e+00
20	TAO120224	87.8839	88.6200	88.2459	1.6053e-01	1.9002e+00
21	TAO130224	87.8354	88.6721	88.2496	1.7171e-01	1.9002e+00
22	TAO130312	87.6576	88.6043	88.2382	1.8919e-01	1.9002e+00
23	TAO130312	87.7372	88.3676	88.0783	1.2490e-01	1.9002e+00
24	TRO200000	88.3525	89.1944	88.6729	2.0282e-01	1.9002e+00
25	TRO700000	88.1315	88.7636	88.4685	1.5653e-01	1.9002e+00
26	TRO100000	88.3924	89.1278	88.7207	2.0039e-01	1.9002e+00
27	TRO120000	87.9900	88.7260	88.4568	1.5329e-01	1.9002e+00
28	TRO125000	88.0790	88.8113	88.4395	1.8669e-01	1.9002e+00
29	TRO130000	87.8982	88.6330	88.2969	1.6154e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6699	2.0760e-01	1.9011e+00
31	TAF050136	88.3419	89.0756	88.6855	1.4976e-01	1.9002e+00
32	TAF070136	88.5398	89.4829	89.0224	2.1745e-01	1.9002e+00
33	TAF080136	88.2996	88.8259	88.5780	1.5071e-01	1.9002e+00
34	TAF090136	74.3647	75.6380	75.1501	2.6929e-01	1.9000e+00
35	TAF100136	88.1607	88.8973	88.4764	1.7266e-01	1.9002e+00
36	TAF105136	87.8472	88.7875	88.3565	2.3978e-01	1.9002e+00
37	TAF110136	87.8795	88.8222	88.2164	1.6536e-01	1.9002e+00
38	TAF115136	88.3741	89.1095	88.7945	1.9055e-01	1.9002e+00
39	TAF120136	88.3091	88.9392	88.6207	1.3740e-01	1.9002e+00
40	TAF125136	88.0777	89.2259	88.6702	2.7477e-01	1.9002e+00
41	TAF130136	88.0073	88.8077	88.4675	1.5519e-01	1.9002e+00
42	TAF120048	88.3477	89.2962	88.8830	2.1593e-01	1.9002e+00
43	TAF130048	88.0429	88.8827	88.4551	1.8345e-01	1.9002e+00
44	TAF120224	88.1382	89.0832	88.5755	2.0361e-01	1.9002e+00
45	TAF130224	87.5641	88.3017	87.9896	1.7152e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	2.1367e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2475	1.1514e-01	1.9010e+00
48	TAL130048	88.1431	89.2979	88.7435	3.2500e-01	1.9002e+00
49	TAL130136	87.5451	88.4893	88.0242	1.9772e-01	1.9002e+00
50	TAL130224	88.5985	89.6498	89.0276	2.5544e-01	1.9002e+00
51	TAL130312	87.8594	88.8060	88.3014	2.1279e-01	1.9002e+00
52	TAL130000	86.5061	87.4505	86.9718	2.3014e-01	1.9002e+00
53	TSI000001	79.9715	80.7119	80.2726	1.6712e-01	1.9001e+00
54	TSI000002	75.7923	76.9557	76.4650	2.6818e-01	1.9000e+00
55	TSO000001	75.8261	76.7836	76.2986	2.1075e-01	1.9000e+00
56	TSO000002	76.1578	77.0861	76.5096	1.7727e-01	1.9000e+00
57	TAF020136	87.4252	88.2698	87.8387	1.8387e-01	1.9002e+00
58	TAF120312	87.5899	88.5353	88.1233	2.5435e-01	1.9002e+00
59	TAF130312	87.5623	88.2379	87.7722	1.6840e-01	1.9002e+00
60	EMPTY	0.5127	0.5273	0.5178	1.9631e-03	0.0000e+00
61	EMPTY	0.5273	0.5371	0.5319	1.5314e-03	0.0000e+00
62	EMPTY	0.5420	0.5469	0.5429	1.8950e-03	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5589	2.4583e-03	0.0000e+00
64	EMPTY	0.3564	0.3613	0.3595	2.3941e-03	0.0000e+00
65	EMPTY	0.3809	0.3857	0.3812	1.1714e-03	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3979	2.4642e-03	0.0000e+00
67	EMPTY	0.4102	0.4199	0.4172	2.6396e-03	0.0000e+00
68	EMPTY	0.4248	0.4395	0.4313	2.6908e-03	0.0000e+00
69	EMPTY	0.4492	0.4541	0.4499	1.7115e-03	0.0000e+00
70	EMPTY	0.4639	0.4688	0.4662	2.4642e-03	0.0000e+00
71	EMPTY	0.4883	0.4932	0.4892	1.8950e-03	0.0000e+00
72	EMPTY	0.5029	0.5078	0.5036	1.7115e-03	0.0000e+00
73	EMPTY	0.5225	0.5273	0.5250	2.4642e-03	0.0000e+00
74	EMPTY	0.5322	0.5420	0.5417	1.5314e-03	0.0000e+00
75	EMPTY	0.5566	0.5615	0.5592	2.4642e-03	0.0000e+00
76	EMPTY	0.5713	0.5762	0.5751	2.8432e-03	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5949	1.8882e-03	0.0000e+00
78	EMPTY	0.6152	0.6250	0.6164	2.3261e-03	0.0000e+00
79	EMPTY	0.6396	0.6445	0.6397	6.9053e-04	0.0000e+00
80	PAM020136	7.0427	8.3397	7.5660	3.0244e-01	0.7021e-01
81	PAM050136	11.7982	13.1715	12.7168	2.9325e-01	1.6883e+00
82	PAM070136	8.1696	8.9326	8.4931	1.8724e-01	0.7026e-01
83	PAM080136	3.9263	4.2315	4.0926	7.6589e-02	0.7006e-01
84	PAM090136	4.5587	5.0165	4.8258	1.1764e-01	0.7008e-01
85	PAM100136	1.4952	2.0293	1.7684	1.1646e-01	0.7001e-01
86	PAM105136	1.8069	2.1121	1.9351	6.9606e-02	0.7001e-01
87	PAM110136	2.1679	2.7020	2.4136	1.0931e-01	0.7002e-01
88	PAM115136	2.3879	2.8457	2.5863	9.1189e-02	0.7002e-01
89	PAM120136	2.5215	2.8267	2.7336	7.9032e-02	0.7003e-01
90	PAM125136	2.7856	3.0145	2.9153	7.2706e-02	0.7003e-01
91	PAM130136	1.7159	2.0211	1.8288	7.5888e-02	0.7001e-01
92	PAM120048	2.7761	3.1575	2.9454	1.0141e-01	0.7003e-01
93	PAM130048	5.0385	5.4963	5.2246	1.1856e-01	0.7010e-01
94	PAM120224	2.1042	2.6382	2.3651	1.1748e-01	0.7002e-01
95	PAM130224	4.4238	4.8815	4.6893	1.2062e-01	0.7008e-01
96	PAM120312	4.1949	4.5764	4.3429	8.9893e-02	0.7007e-01
97	PAM130312	4.7260	5.1838	4.9830	1.0041e-01	0.7009e-01
98	PAB0000136	27.7418	28.0623	27.9075	0.3177e-01	5.8418e-01
99	PAB100136	26.4152	26.5983	26.5068	4.5307e-02	5.8377e-01
100	PAB125136	25.8932	26.0305	25.9591	4.4507e-02	5.8362e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	27.6063	27.9725	27.7943	1.0009e-01	7.5321e-01
102	PRV000001	24.3456	24.4677	24.4506	4.2707e-02	7.5249e-01
103	PSR000001	25.3763	25.6204	25.4983	2.4662e-02	7.5270e-01
104	PFH000001	25.5133	26.0626	25.8282	1.3406e-01	5.0415e-01
105	PAN000136	50.6536	56.6046	54.0227	1.4877e+00	4.9219e+00
106	PFH000002	21.8079	23.6369	22.9048	4.6903e-01	2.0009e-01
107	EMPTY	0.0000	0.0049	0.0048	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	-1.3067	-7.9020	2.8567e+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	0.0061	6.9053e-04	0.0000e+00
112	VPH000001	-0.2554	0.1352	-0.0132	1.0106e-01	0.1000e-01
113	VPH000002	-0.0376	0.1577	0.0445	9.7377e-02	0.1000e-01
114	VPH000003	-0.2017	0.3042	-0.0003	1.2470e-01	0.1000e-01
115	VPH000004	-0.2479	0.1427	-0.0135	1.1161e-01	0.1000e-01
116	VPH000005	-0.1577	0.2329	-0.0249	1.1464e-01	0.1000e-01
117	VPH000006	-0.0413	0.3493	0.0954	9.8640e-02	0.1000e-01
118	IPH000001	-1.8397	2.0650	0.3079	9.8600e-01	0.1000e+00
119	IPH000002	-2.6642	3.1896	-0.3617	1.4043e+00	0.1000e+00
120	IPH000003	-1.5750	2.3250	0.4920	9.1633e-01	0.1000e+00
121	IPH000004	-0.2441	0.7324	0.2441	2.4164e-01	2.0000e+00
122	IPH000005	-0.4601	0.5164	-0.0305	3.5060e-01	2.0000e+00
123	IPH000006	-0.5540	0.9109	0.0417	3.7291e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0198	3.6124e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0090	-0.0136	2.4741e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0090	-0.0159	2.9200e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0090	-0.0152	3.6433e-03	0.0000e+00
128	INT000001	-0.1503	0.2404	0.0130	9.1354e-02	4.1000e+00
129	INT000002	-0.2066	0.1040	-0.0035	5.5243e-02	4.1000e+00
130	INT000003	-0.1991	0.1916	0.0000	7.2066e-02	4.1000e+00
131	INT000004	-0.0901	0.3005	0.0114	1.0617e-01	4.1000e+00
132	INT000005	-0.0709	0.3117	0.0100	1.0625e-01	4.1000e+00
133	INT000006	-0.1239	0.0714	0.0050	9.3461e-02	4.1000e+00
134	INT000007	-0.0150	0.1003	0.0162	7.2330e-02	4.1000e+00
135	INT000008	-0.0413	0.1540	0.0212	9.2034e-02	4.1000e+00
136	INT000009	-0.1916	0.1991	-0.0150	7.1136e-02	4.1000e+00
137	INT000010	-0.0400	0.1465	0.0019	8.6541e-02	4.1000e+00
138	INT000011	-0.2291	0.1615	0.0092	9.0756e-02	4.1000e+00
139	INT000012	-0.0064	0.3042	0.0035	1.0595e-01	4.1000e+00
140	INT000013	-0.1570	0.0376	-0.0406	9.6655e-02	4.1000e+00
141	INT000014	-0.2592	0.3260	0.0260	1.1306e-01	4.1000e+00
142	INT000015	-0.2020	0.1070	-0.0075	5.5004e-02	4.1000e+00
143	INT000016	-0.0630	0.3260	0.0260	1.0595e-01	4.1000e+00
144	INT000017	-0.4502	0.5103	0.0222	2.9319e-01	4.1000e+00
145	INT000018	-0.1164	0.0709	-0.0100	9.8640e-02	4.1000e+00
146	INT000019	-0.3710	0.0100	-0.2117	9.4125e-02	4.1000e+00
147	INT000020	-0.3005	0.2055	0.0316	1.0625e-01	4.1000e+00
148	INT000021	-0.0630	0.1315	0.0260	9.8332e-02	4.1000e+00
149	INT000022	-0.2092	0.1014	-0.0119	1.0507e-01	4.1000e+00
150	INT000023	-0.2066	0.1040	0.0356	9.3043e-02	4.1000e+00
151	INT000024	-0.1570	0.2329	0.1001	1.0014e-01	4.1000e+00
152	INT000025	-0.2442	0.1465	-0.0449	6.2265e-02	4.1000e+00
153	INT000026	-0.1003	0.2104	0.0109	0.3612e-02	4.1000e+00
154	INT000027	-0.0113	0.1040	0.0161	6.0459e-02	4.1000e+00
155	INT000028	-0.1003	0.2103	0.0346	1.1334e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.0413	0.3493	0.0173	9.8640e-02	4.1000e+00
157	INT000030	-0.1070	0.2020	0.0231	0.6010e-02	4.1000e+00
158	INT000031	-0.2442	0.3410	0.0605	1.1272e-01	4.1000e+00
159	INT000032	-0.0451	0.3455	0.0130	1.1161e-01	4.1000e+00
160	INT000033	-0.2129	0.3531	0.0404	1.1942e-01	4.1000e+00
161	INT000034	-0.1765	0.2141	0.0227	1.0052e-01	4.1000e+00
162	INT000035	-0.0263	0.3643	0.0714	1.2001e-01	4.1000e+00
163	INT000036	-0.0939	0.2967	0.0420	1.1334e-01	4.1000e+00

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Velocity 1 - 24.9643 (ft/sec) (+/- 1.6918 ft)
 Velocity 2 - 13.4277 (ft/sec) (+/- 1.7032 ft)
 Pressure drop - 10.7814 (psi)
 Tsat in - 276.5657 (deg F) Tsat out - 247.4543 (deg F)
 Phi inner - 0.0000 (kbtu/hr-ft2) (+/- 4364.3032 ft)
 Phi outer - 0.0000 (kbtu/hr-ft2) (+/- 4813.7607 ft)
 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	73.8393	74.4796	74.2320	1.6090e-01	1.9000e+00
1	TRF000002	73.7731	74.1970	74.0746	1.1423e-01	1.9000e+00
2	TRF000001	88.6265	89.2560	88.9569	1.4537e-01	1.9002e+00
3	TRF000001	87.6302	88.3671	88.0190	1.2979e-01	1.9002e+00
4	TRF000001	88.3057	89.1440	88.7068	2.0795e-01	1.9002e+00
5	TRF000001	87.7053	88.4159	88.1024	1.4119e-01	1.9002e+00
6	TRF000136	88.4765	81.5353	88.9405	2.4744e-01	1.9001e+00
7	TRF005136	88.0639	88.9024	88.5449	1.6020e-01	1.9002e+00
8	TRF0070136	88.0090	88.9324	88.5133	1.9904e-01	1.9002e+00
9	TRF000136	87.9640	88.8022	88.4491	1.7697e-01	1.9002e+00
10	TRF0090136	88.6437	89.3780	89.0619	2.0037e-01	1.9002e+00
11	TRF100136	87.9905	88.6295	88.3750	1.5752e-01	1.9002e+00
12	TRF105136	88.9272	89.0733	89.0406	2.2295e-01	1.9003e+00
13	TRF110136	88.3642	89.0904	88.8237	1.6634e-01	1.9002e+00
14	TRF115136	88.4335	89.5090	88.9743	2.6093e-01	1.9002e+00
15	TRF120136	88.0500	88.7062	88.4310	1.4070e-01	1.9002e+00
16	TRF125136	88.6852	89.4207	89.2125	1.4310e-01	1.9002e+00
17	TRF130136	88.0003	88.6206	88.4123	1.4544e-01	1.9002e+00
18	TRF130040	74.9015	75.6195	75.3113	1.5950e-01	1.9000e+00
19	TRF130040	87.9016	88.6122	88.2704	1.5040e-01	1.9002e+00
20	TRF130224	88.3034	88.9345	88.5920	1.4055e-01	1.9002e+00
21	TRF130224	88.2507	88.8790	88.6343	1.6102e-01	1.9002e+00
22	TRF130312	88.1829	88.9197	88.6401	1.7914e-01	1.9002e+00
23	TRF130312	88.1560	88.6823	88.4907	1.2143e-01	1.9002e+00
24	TRF020000	88.5632	89.4053	89.0076	1.9750e-01	1.9002e+00
25	TRF070000	88.4405	89.1059	88.8254	1.4920e-01	1.9002e+00
26	TRF100000	88.7066	89.3369	89.0952	1.3929e-01	1.9002e+00
27	TRF120000	88.5142	89.1449	88.8193	1.1000e-01	1.9002e+00
28	TRF125000	88.3905	89.1252	88.8336	1.6150e-01	1.9002e+00
29	TRF130000	88.3161	89.0517	88.6805	1.5623e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6561	2.4225e-01	1.9011e+00
31	TAF050136	88.6544	89.4933	89.0596	1.8095e-01	1.9002e+00
32	TAF070136	88.6447	89.5065	89.3165	2.3051e-01	1.9003e+00
33	TAF080136	88.5070	89.2397	88.9465	1.6464e-01	1.9002e+00
34	TAF090136	74.7005	75.7440	75.3048	2.7344e-01	1.9000e+00
35	TAF100136	88.4760	89.2124	88.8277	1.6544e-01	1.9002e+00
36	TAF105136	88.1500	89.0907	88.7125	2.3949e-01	1.9002e+00
37	TAF110136	88.2974	88.9271	88.6029	1.3920e-01	1.9002e+00
38	TAF115136	88.5034	89.5277	89.1099	1.7742e-01	1.9002e+00
39	TAF120136	88.6229	89.2529	89.0322	1.4265e-01	1.9002e+00
40	TAF125136	88.4940	89.6417	89.0011	2.6069e-01	1.9002e+00
41	TAF130136	88.4919	89.2260	88.8379	1.7122e-01	1.9002e+00
42	TAF130040	88.8743	90.0353	89.2777	2.1806e-01	1.9003e+00
43	TAF130040	88.2524	89.1974	88.8259	1.8257e-01	1.9002e+00
44	TAF130224	88.4526	89.2924	88.9419	2.1462e-01	1.9002e+00
45	TAF130224	87.7749	88.8280	88.3037	1.9539e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1032	2.0359e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2042	1.2274e-01	1.9010e+00
48	TAF130040	88.4570	89.7165	89.0900	2.9149e-01	1.9002e+00
49	TAF130136	87.9640	88.0030	88.3777	2.0021e-01	1.9002e+00
50	TAF130224	88.0000	89.9654	89.4334	3.0079e-01	1.9003e+00
51	TAF130312	88.2797	89.1211	88.6900	2.1993e-01	1.9002e+00
52	TAF130000	86.9237	87.7641	87.3040	2.0962e-01	1.9002e+00
53	TAF1000001	79.9715	80.7119	80.3006	1.6160e-01	1.9001e+00
54	TAF1000002	76.0024	76.9563	76.5340	2.4112e-01	1.9000e+00
55	TAF0000001	76.0390	76.7836	76.4327	2.0974e-01	1.9000e+00
56	TAF0000002	76.2627	77.2179	76.7406	2.1132e-01	1.9000e+00
57	TAF020136	87.0400	88.4011	88.1540	1.6132e-01	1.9002e+00
58	TAF120312	87.7990	88.9546	88.4736	2.0040e-01	1.9002e+00
59	TAF130312	87.0169	88.5509	88.1009	1.5002e-01	1.9002e+00
60	EMPTY	0.5225	0.5273	0.5257	2.3365e-03	0.0000e+00
61	EMPTY	0.5371	0.5469	0.5399	2.6267e-03	0.0000e+00
62	EMPTY	0.5510	0.5518	0.5510	0.0000e+00	0.0000e+00
63	EMPTY	0.5664	0.5713	0.5660	1.3301e-03	0.0000e+00
64	EMPTY	0.3613	0.3711	0.3697	2.4244e-03	0.0000e+00
65	EMPTY	0.3906	0.3955	0.3908	9.6455e-04	0.0000e+00
66	EMPTY	0.4053	0.4102	0.4067	2.2603e-03	0.0000e+00
67	EMPTY	0.4240	0.4297	0.4261	2.1635e-03	0.0000e+00
68	EMPTY	0.4395	0.4443	0.4402	1.0002e-03	0.0000e+00
69	EMPTY	0.4590	0.4639	0.4592	9.6455e-04	0.0000e+00
70	EMPTY	0.4736	0.4803	0.4751	2.8134e-03	0.0000e+00
71	EMPTY	0.4900	0.5029	0.4904	1.3301e-03	0.0000e+00
72	EMPTY	0.5127	0.5127	0.5127	0.0000e+00	0.0000e+00
73	EMPTY	0.5322	0.5371	0.5320	1.6020e-03	0.0000e+00
74	EMPTY	0.5469	0.5510	0.5506	2.1065e-03	0.0000e+00
75	EMPTY	0.5664	0.5762	0.5670	1.0021e-03	0.0000e+00
76	EMPTY	0.5811	0.5859	0.5823	2.1635e-03	0.0000e+00
77	EMPTY	0.5957	0.6055	0.6023	2.5640e-03	0.0000e+00
78	EMPTY	0.6201	0.6299	0.6254	1.6624e-03	0.0000e+00
79	EMPTY	0.6445	0.6494	0.6405	1.0950e-03	0.0000e+00
80	PAN020136	65.5601	68.6119	66.7732	7.7119e-01	0.8507e-01
81	PAN050136	121.0512	122.4245	121.6505	3.2109e-01	1.7073e+00
82	PAN070136	82.7000	83.7006	83.2444	2.1934e-01	0.9454e-01
83	PAN000136	41.1570	41.9207	41.4171	1.6744e-01	0.7614e-01
84	PAN090136	43.0072	44.1553	43.6099	2.7150e-01	0.7603e-01
85	PAN100136	31.3262	31.9365	31.6146	1.5125e-01	0.7350e-01
86	PAN105136	19.3545	19.9649	19.6078	1.4164e-01	0.7130e-01
87	PAN110136	21.0000	21.7754	21.4092	1.8360e-01	0.7164e-01
88	PAN115136	21.7666	22.3769	22.0733	1.3999e-01	0.7175e-01
89	PAN120136	21.5950	22.2054	21.8269	1.5640e-01	0.7171e-01
90	PAN125136	24.1479	24.8346	24.5126	1.6261e-01	0.7216e-01
91	PAN130136	19.4161	19.7976	19.6694	0.7790e-02	0.7139e-01
92	PAN130040	37.1003	37.9476	37.5127	1.0512e-01	0.7504e-01
93	PAN130040	44.5500	45.6269	45.0043	2.3394e-01	0.7724e-01
94	PAN130224	35.2920	35.8261	35.5000	1.5231e-01	0.7454e-01
95	PAN130224	41.0070	42.7996	42.3202	1.9041e-01	0.7641e-01
96	PAN130312	40.0923	41.4263	41.1563	1.3544e-01	0.7606e-01
97	PAN130312	44.5515	45.0055	44.8216	1.4794e-01	0.7719e-01
98	PAN000136	46.3720	46.8306	46.5944	9.8031e-02	5.9150e-01
99	PAN100136	32.4577	32.6400	32.5318	4.7957e-02	5.8567e-01
100	PAN125136	20.4109	20.5940	20.4869	4.5079e-02	5.8436e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	45.9168	46.7713	46.3075	1.8619e-01	7.5000e-01
102	PRV000001	24.4677	24.5897	24.4725	2.4164e-02	7.5249e-01
103	PSN000001	25.3763	25.4983	25.4373	6.1655e-02	7.5269e-01
104	PPH000001	95.1849	97.0160	96.0675	5.1804e-01	5.5469e-01
105	PMN000136	516.6570	523.9813	519.9714	1.6789e+00	5.0000e+00
106	PPH000002	27.6137	27.6137	27.6137	1.3487e-05	2.1150e-01
107	EMPTY	0.0098	0.0146	0.0099	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	0.7764	-7.2286	2.9515e+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	0.0048	6.9053e-04	0.0000e+00
112	VPW000001	-0.2554	0.1352	0.0141	1.0758e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0093	8.4262e-02	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0230	1.1272e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0096	1.0654e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0415	9.2456e-02	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0563	1.1334e-01	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.3469	1.0902e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.2627	1.3222e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.2970	1.3624e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1562	2.1364e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1258	3.2714e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0515	3.6326e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0196	3.8825e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0132	2.2603e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0161	3.1503e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0152	3.2178e-03	0.0000e+00
128	INT000001	-0.1503	0.0451	-0.0096	8.8585e-02	4.1000e+00
129	INT000002	-0.2066	0.1840	0.0082	9.0412e-02	4.1000e+00
130	INT000003	-0.1991	0.1916	-0.0077	8.3612e-02	4.1000e+00
131	INT000004	-0.0901	0.1052	0.0232	9.7377e-02	4.1000e+00
132	INT000005	-0.0789	0.3117	0.0188	1.0625e-01	4.1000e+00
133	INT000006	-0.1239	0.0714	0.0089	9.2034e-02	4.1000e+00
134	INT000007	-0.2104	0.1803	0.0279	9.0756e-02	4.1000e+00
135	INT000008	-0.2366	0.1540	0.0212	1.0014e-01	4.1000e+00
136	INT000009	-0.1916	0.1991	-0.0236	7.9017e-02	4.1000e+00
137	INT000010	-0.0488	0.1465	0.0176	9.3461e-02	4.1000e+00
138	INT000011	-0.2291	0.3568	0.0170	1.0297e-01	4.1000e+00
139	INT000012	-0.0864	0.3042	0.0035	1.1306e-01	4.1000e+00
140	INT000013	-0.1578	0.2329	-0.0367	1.1084e-01	4.1000e+00
141	INT000014	-0.0639	0.3268	0.0533	1.1161e-01	4.1000e+00
142	INT000015	-0.2028	0.1878	0.0003	6.7888e-02	4.1000e+00
143	INT000016	-0.0638	0.3268	0.0416	1.0595e-01	4.1000e+00
144	INT000017	-0.2629	0.5183	0.0183	2.0939e-01	4.1000e+00
145	INT000018	-0.3117	0.2742	-0.0383	1.1838e-01	4.1000e+00
146	INT000019	-0.3718	0.0188	-0.1804	8.3612e-02	4.1000e+00
147	INT000020	-0.1852	0.2855	0.0198	1.0259e-01	4.1000e+00
148	INT000021	-0.0638	0.1315	0.0377	9.8569e-02	4.1000e+00
149	INT000022	-0.2892	0.1014	-0.0431	9.5112e-02	4.1000e+00
150	INT000023	-0.0113	0.1840	0.0239	7.5798e-02	4.1000e+00
151	INT000024	0.0376	0.2329	0.0805	8.1729e-02	4.1000e+00
152	INT000025	-0.2442	0.1465	-0.0332	6.6498e-02	4.1000e+00
153	INT000026	-0.1803	0.2104	0.0229	6.7888e-02	4.1000e+00
154	INT000027	-0.0113	0.1840	0.0122	6.4113e-02	4.1000e+00
155	INT000028	-0.1803	0.2103	-0.0201	1.1632e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.2366	0.3493	0.0056	1.0106e-01	4.1000e+00
157	INT000030	-0.1878	0.2028	-0.0081	9.5357e-02	4.1000e+00
158	INT000031	-0.2442	0.1465	0.0371	1.0559e-01	4.1000e+00
159	INT000032	-0.0451	0.1502	0.0057	8.6541e-02	4.1000e+00
160	INT000033	-0.4282	0.1578	0.0054	1.0654e-01	4.1000e+00
161	INT000034	-0.1765	0.2141	-0.0007	9.0412e-02	4.1000e+00
162	INT000035	-0.2216	0.1690	0.0011	8.8321e-02	4.1000e+00
163	INT000036	-0.0939	0.1014	-0.0041	9.8332e-02	4.1000e+00

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Velocity 1 - 11.9733 (ft/sec) (+/- 2.0238 %)
 Velocity 2 - 11.6034 (ft/sec) (+/- 1.7280 %)
 Pressure drop - 0.9212 (psi)
 Tsat in - 243.8582 (deg F) Tsat out - 241.8049 (deg F)
 Phi inner - 0.0000 (kbtu/hr-ft2) (+/- 10004.7588 %)
 Phi outer - 0.0000 (kbtu/hr-ft2) (+/- 6437.8892 %)
 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	TRP000001	73.8393	74.6929	74.2448	2.1231e-01	1.9000e+00
1	TRP000002	73.9855	74.1978	74.0916	1.0725e-01	1.9000e+00
2	TFN000001	88.9418	89.6772	89.3112	1.3774e-01	1.9003e+00
3	TIN000001	88.1559	88.7875	88.4046	1.3745e-01	1.9002e+00
4	TRV000001	88.3057	89.1448	88.8260	2.0723e-01	1.9002e+00
5	TSR000001	88.2034	88.9377	88.5817	1.7606e-01	1.9002e+00
6	TAO020136	88.6882	81.8529	81.2601	2.4756e-01	1.9001e+00
7	TAO050136	88.5866	89.2165	88.8686	1.5203e-01	1.9002e+00
8	TAO070136	88.4059	89.3539	88.8652	2.0604e-01	1.9002e+00
9	TAO080136	88.2776	89.2216	88.8101	1.6116e-01	1.9002e+00
10	TAO090136	89.0625	89.6929	89.4115	1.8888e-01	1.9003e+00
11	TAO100136	88.3136	89.0485	88.7041	1.7258e-01	1.9002e+00
12	TAO105136	89.2422	90.2933	89.7806	2.2637e-01	1.9003e+00
13	TAO110136	88.6771	89.5141	89.1170	1.7439e-01	1.9002e+00
14	TAO115136	88.6437	89.8005	89.2789	2.5210e-01	1.9003e+00
15	TAO120136	88.4704	89.1015	88.7814	1.5466e-01	1.9002e+00
16	TAO125136	89.2089	89.8392	89.4784	1.3632e-01	1.9003e+00
17	TAO130136	88.4140	89.0421	88.7041	1.6414e-01	1.9002e+00
18	TAO120048	74.8761	75.5141	75.2117	1.6122e-01	1.9000e+00
19	TAO130048	88.2957	88.9261	88.5779	1.4932e-01	1.9002e+00
20	TAO120224	88.6181	89.3544	88.9087	1.7839e-01	1.9002e+00
21	TAO130224	88.5640	89.2953	88.9192	1.7567e-01	1.9002e+00
22	TAO120312	88.6034	89.4448	88.9865	1.6968e-01	1.9002e+00
23	TAO130312	88.4702	89.1007	88.7566	1.4088e-01	1.9002e+00
24	THT020000	88.7737	89.8261	89.3001	2.3097e-01	1.9003e+00
25	THT070000	88.7647	89.6080	89.1484	2.0179e-01	1.9002e+00
26	THT100000	89.0212	89.7549	89.4528	1.7159e-01	1.9003e+00
27	THT120000	88.7237	89.4584	89.1064	1.5269e-01	1.9002e+00
28	THT125000	88.8094	89.4370	89.1359	1.6739e-01	1.9002e+00
29	THT130000	88.6304	89.2609	88.9460	1.5306e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6562	1.9284e-01	1.9011e+00
31	TAF050136	89.1776	89.7021	89.4043	1.4267e-01	1.9003e+00
32	TAF070136	89.0618	90.2111	89.6939	2.4537e-01	1.9003e+00
33	TAF080136	88.9257	89.7606	89.2733	1.9644e-01	1.9003e+00
34	TAF090136	74.7894	76.0623	75.3832	2.8249e-01	1.9000e+00
35	TAF100136	88.6863	89.5280	89.1242	1.9521e-01	1.9002e+00
36	TAF105136	88.4717	89.6195	89.0893	2.4217e-01	1.9002e+00
37	TAF110136	88.6113	89.3467	88.9267	1.6957e-01	1.9002e+00
38	TAF115136	89.0029	90.0511	89.4597	2.1036e-01	1.9003e+00
39	TAF120136	88.9371	89.6703	89.2932	1.4858e-01	1.9003e+00
40	TAF125136	88.5966	89.8468	89.2737	2.7234e-01	1.9003e+00
41	TAF130136	88.8048	89.5405	89.1454	1.6230e-01	1.9002e+00
42	TAF120048	89.0859	90.0346	89.5161	2.3799e-01	1.9003e+00
43	TAF130048	88.7762	89.5122	89.1504	1.6437e-01	1.9002e+00
44	TAF120224	88.8712	89.6070	89.2077	1.8359e-01	1.9002e+00
45	TAF130224	88.4064	88.9335	88.6850	1.5314e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1078	2.2392e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.1924	1.0374e-01	1.9010e+00
48	TAI130048	88.8767	90.0309	89.3978	3.0112e-01	1.9003e+00
49	TAI130136	88.2794	89.1168	88.7394	2.0414e-01	1.9002e+00
50	TAI130224	89.1240	90.3855	89.7676	3.0966e-01	1.9003e+00
51	TAI130312	88.5948	89.4360	89.0198	1.9110e-01	1.9002e+00
52	TRR130000	87.1343	88.1826	87.7340	2.5066e-01	1.9002e+00
53	TSI000001	88.7090	81.6599	81.2412	1.9307e-01	1.9001e+00
54	TSI000002	76.4256	77.5895	77.1155	2.3709e-01	1.9000e+00
55	TSO000001	76.3578	77.2091	76.7327	1.9130e-01	1.9000e+00
56	TSO000002	76.5807	77.5351	77.0987	2.1392e-01	1.9000e+00
57	TAF020136	88.0593	88.9036	88.5068	1.7902e-01	1.9002e+00
58	TAF120312	88.3236	89.2697	88.7903	2.2252e-01	1.9002e+00
59	TAF130312	88.1320	88.8667	88.4805	1.7305e-01	1.9002e+00
60	EMPTY	0.5322	0.5371	0.5324	9.6655e-04	0.0000e+00
61	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
62	EMPTY	0.5566	0.5615	0.5597	2.3941e-03	0.0000e+00
63	EMPTY	0.5713	0.5762	0.5752	1.9730e-03	0.0000e+00
64	EMPTY	0.3662	0.3662	0.3662	0.0000e+00	0.0000e+00
65	EMPTY	0.3857	0.3906	0.3858	6.9053e-04	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4050	1.1714e-03	0.0000e+00
67	EMPTY	0.4199	0.4248	0.4241	1.7115e-03	0.0000e+00
68	EMPTY	0.4346	0.4395	0.4386	1.8950e-03	0.0000e+00
69	EMPTY	0.4541	0.4590	0.4557	2.3008e-03	0.0000e+00
70	EMPTY	0.4688	0.4736	0.4733	1.1714e-03	0.0000e+00
71	EMPTY	0.4932	0.4980	0.4964	2.3365e-03	0.0000e+00
72	EMPTY	0.5078	0.5127	0.5103	2.4662e-03	0.0000e+00
73	EMPTY	0.5273	0.5322	0.5318	1.3381e-03	0.0000e+00
74	EMPTY	0.5469	0.5469	0.5469	0.0000e+00	0.0000e+00
75	EMPTY	0.5615	0.5664	0.5653	2.0432e-03	0.0000e+00
76	EMPTY	0.5762	0.5811	0.5809	9.6655e-04	0.0000e+00
77	EMPTY	0.5957	0.6006	0.6004	9.6655e-04	0.0000e+00
78	EMPTY	0.6201	0.6250	0.6210	1.8950e-03	0.0000e+00
79	EMPTY	0.6396	0.6494	0.6456	2.2689e-03	0.0000e+00
80	PAN020136	3.5331	3.9146	3.6766	1.0750e-01	8.7005e-01
81	PAN050136	5.6947	6.3051	6.1006	1.4979e-01	1.6801e+00
82	PAN070136	3.7446	4.1261	3.9414	8.9995e-02	8.7006e-01
83	PAN080136	1.6375	1.8664	1.7764	7.3422e-02	8.7001e-01
84	PAN090136	2.3462	2.6514	2.4851	7.1785e-02	8.7002e-01
85	PAN100136	0.1832	0.0456	-0.0566	8.6660e-02	8.7000e-01
86	PAN105136	0.7388	0.9677	0.8532	6.9362e-02	8.7000e-01
87	PAN110136	1.0235	1.3287	1.2112	6.9293e-02	8.7001e-01
88	PAN115136	1.1672	1.4724	1.3488	8.4269e-02	8.7001e-01
89	PAN120136	1.4534	1.7586	1.5831	7.1054e-02	8.7001e-01
90	PAN125136	1.4123	1.6412	1.5329	7.0786e-02	8.7001e-01
91	PAN130136	0.8004	1.0293	0.9102	6.5485e-02	8.7000e-01
92	PAN120048	0.6398	0.8687	0.7375	7.0702e-02	8.7000e-01
93	PAN130048	2.6734	2.9786	2.8183	7.7453e-02	8.7003e-01
94	PAN120224	0.2731	0.5783	0.4425	7.7514e-02	8.7000e-01
95	PAN130224	2.2876	2.5164	2.4020	6.7627e-02	8.7002e-01
96	PAN120312	1.9061	2.2876	2.0800	8.3063e-02	8.7002e-01
97	PAN130312	2.4372	2.7424	2.5730	8.0521e-02	8.7002e-01
98	PAB000136	26.6890	26.8263	26.7576	3.7281e-02	5.8384e-01
99	PAB100136	26.0490	26.1863	26.1250	4.3975e-02	5.8367e-01
100	PAB125136	25.7101	25.8932	25.8108	4.3378e-02	5.8358e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	26.5077	26.6297	26.5419	5.5366e-02	7.5293e-01
102	PRV0000001	24.4677	24.5897	24.4701	1.7263e-02	7.5249e-01
103	PSR0000001	25.3763	25.4983	25.4812	4.2787e-02	7.5270e-01
104	PFM0000001	21.5765	22.3089	21.9171	1.7157e-01	5.0299e-01
105	PAN000136	24.1033	26.8499	25.5041	5.7317e-01	4.9204e+00
106	PFM0000002	19.8279	21.1367	20.5736	3.1533e-01	2.0651e-01
107	EMPTY	0.0049	0.0049	0.0049	0.0000e+00	0.0000e+00
108	EMPTY	-10.0000	-0.5957	-6.6372	3.1948e+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	-0.0601	0.1352	0.0219	9.7377e-02	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0405	9.6655e-02	8.1000e-01
114	VPW0000003	-0.2817	0.1089	0.0112	1.0625e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	-0.0369	1.1732e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0337	1.2156e-01	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.0759	1.1161e-01	8.1000e-01
118	IPW0000001	-1.8397	4.0173	0.4250	1.3294e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	0.1066	1.2522e+00	8.1000e+00
120	IPW0000003	-1.5750	2.3250	0.4530	1.1115e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1758	2.6118e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.0965	2.6116e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.0027	3.6924e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0193	3.5513e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0133	2.7971e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0098	-0.0161	3.1583e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0161	3.3087e-03	0.0000e+00
128	IHT0000001	-0.1503	0.2404	0.0060	1.0440e-01	4.1000e+00
129	IHT0000002	-0.2066	0.1840	-0.0074	7.3716e-02	4.1000e+00
130	IHT0000003	-0.1991	0.5822	0.0119	1.0320e-01	4.1000e+00
131	IHT0000004	-0.0901	0.3005	0.0075	1.0625e-01	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0383	1.1161e-01	4.1000e+00
133	IHT0000006	-0.1239	0.2667	-0.0146	1.0559e-01	4.1000e+00
134	IHT0000007	-0.2104	0.1803	0.0006	6.6498e-02	4.1000e+00
135	IHT0000008	-0.0413	0.3493	0.0173	9.8648e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	0.0077	8.3612e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0176	9.3461e-02	4.1000e+00
138	IHT0000011	-0.0338	0.1615	0.0287	9.2034e-02	4.1000e+00
139	IHT0000012	-0.0864	0.3042	0.0230	1.0559e-01	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0288	1.0145e-01	4.1000e+00
141	IHT0000014	-0.2592	0.1314	0.0533	1.0440e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	0.0042	6.1257e-02	4.1000e+00
143	IHT0000016	-0.0638	0.3268	0.0299	1.0617e-01	4.1000e+00
144	IHT0000017	-0.4582	0.5183	0.0066	2.5842e-01	4.1000e+00
145	IHT0000018	-0.3117	0.2742	-0.0227	1.1327e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.2351	1.1334e-01	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0198	1.0992e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0221	1.0559e-01	4.1000e+00
149	IHT0000022	-0.2892	0.1014	-0.0392	1.0470e-01	4.1000e+00
150	IHT0000023	-0.0113	0.1840	0.0395	8.6541e-02	4.1000e+00
151	IHT0000024	-0.1578	0.2329	0.0922	9.6976e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0410	7.8523e-02	4.1000e+00
153	IHT0000026	-0.1803	0.0150	0.0072	3.8662e-02	4.1000e+00
154	IHT0000027	-0.0113	0.1840	0.0278	7.8918e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	-0.0123	9.6735e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2366	0.3493	-0.0101	9.9512e-02	4.1000e+00
157	IHT0000030	-0.1878	0.3981	-0.0042	1.1443e-01	4.1000e+00
158	IHT0000031	-0.0488	0.3418	0.0215	1.0259e-01	4.1000e+00
159	IHT0000032	-0.0451	0.3455	-0.0060	8.8233e-02	4.1000e+00
160	IHT0000033	-0.0376	0.1578	-0.0063	7.2330e-02	4.1000e+00
161	IHT0000034	-0.1765	0.2141	-0.0007	9.8648e-02	4.1000e+00
162	IHT0000035	-0.2216	0.1690	0.0011	1.1168e-01	4.1000e+00
163	IHT0000036	-0.0939	0.1014	-0.0236	9.4702e-02	4.1000e+00

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Velocity 1 - 11.0615 (ft/sec) (+/- 2.1413 %)
 Velocity 2 - 10.8823 (ft/sec) (+/- 1.7443 %)
 Pressure drop - 0.0839 (psi)
 Tsat in - 241.6055 (deg F) Tsat out - 241.3155 (deg F)
 Phi inner - 0.0000 (kBtu/hr-ft2) (+/- 4119.9077 %)
 Phi outer - 0.0000 (kBtu/hr-ft2) (+/- 1689.3126 %)
 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	73.8393	74.4796	74.2704	1.8031e-01	1.9000e+00
1	TRF000002	73.7731	74.1978	74.0661	1.3492e-01	1.9000e+00
2	TFH000001	88.9423	89.7813	89.4119	1.8007e-01	1.9003e+00
3	TIN000001	88.2609	88.7875	88.5098	1.5293e-01	1.9002e+00
4	TRV000001	88.5147	89.5624	88.9472	2.1102e-01	1.9002e+00
5	TSR000001	88.2034	88.8338	88.5400	1.5283e-01	1.9002e+00
6	TAO020136	80.7938	81.5353	81.1840	2.1214e-01	1.9001e+00
7	TAO050136	88.5871	89.2165	88.9313	1.6815e-01	1.9002e+00
8	TAO070136	88.5119	89.1436	88.9243	1.6313e-01	1.9002e+00
9	TAO080136	88.5918	89.1162	88.8894	1.4577e-01	1.9002e+00
10	TAO090136	88.9586	89.9021	89.5037	2.1286e-01	1.9003e+00
11	TAO100136	88.4177	89.0485	88.7963	1.8003e-01	1.9002e+00
12	TAO105136	89.3476	90.2933	89.8059	1.9663e-01	1.9003e+00
13	TAO110136	88.8851	89.5141	89.2252	1.6318e-01	1.9002e+00
14	TAO115136	88.9594	89.9052	89.3168	2.0582e-01	1.9003e+00
15	TAO120136	88.5748	88.9960	88.8277	1.2028e-01	1.9002e+00
16	TAO125136	89.1050	89.8392	89.5454	1.6695e-01	1.9003e+00
17	TAO130136	88.4140	89.1439	88.8075	1.7193e-01	1.9002e+00
18	TAO120048	75.1936	75.8315	75.4747	1.3541e-01	1.9000e+00
19	TAO130048	88.2957	89.0302	88.6741	1.7733e-01	1.9002e+00
20	TAO120224	88.6186	89.4585	88.9884	1.9004e-01	1.9002e+00
21	TAO130224	88.6669	89.2953	89.0397	1.6798e-01	1.9002e+00
22	TAO120312	88.6034	89.4448	89.0370	2.0556e-01	1.9002e+00
23	TAO130312	88.4708	89.1007	88.8152	1.6567e-01	1.9002e+00
24	TRO200000	88.8792	89.8261	89.4180	1.7995e-01	1.9003e+00
25	TRO700000	88.8696	89.6080	89.2371	1.6527e-01	1.9002e+00
26	TRO100000	89.0212	89.9639	89.4821	1.9743e-01	1.9003e+00
27	TRO200000	88.9332	89.5638	89.2153	1.7545e-01	1.9002e+00
28	TRO250000	88.8094	89.5418	89.2319	1.7294e-01	1.9002e+00
29	TRO300000	88.6304	89.2609	89.0172	1.7409e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6837	2.0005e-01	1.9011e+00
31	TAF050136	89.0722	89.8060	89.4586	1.7379e-01	1.9003e+00
32	TAF070136	89.3757	90.1081	89.7065	1.7839e-01	1.9003e+00
33	TAF080136	88.9257	89.6580	89.3316	1.7512e-01	1.9003e+00
34	TAF090136	75.0012	76.0608	75.4383	2.4846e-01	1.9000e+00
35	TAF100136	88.6869	89.5280	89.2167	1.7123e-01	1.9002e+00
36	TAF105136	88.5743	89.6195	89.0976	2.2016e-01	1.9002e+00
37	TAF110136	88.5079	89.3452	88.9685	1.7837e-01	1.9002e+00
38	TAF115136	89.1066	89.9457	89.5308	2.0959e-01	1.9003e+00
39	TAF120136	89.0405	89.6703	89.3517	1.4208e-01	1.9003e+00
40	TAF125136	88.9101	89.8496	89.4027	2.6635e-01	1.9003e+00
41	TAF130136	88.8048	89.6441	89.2500	1.6765e-01	1.9002e+00
42	TAF120048	89.1910	90.1401	89.6428	2.2235e-01	1.9003e+00
43	TAF130048	88.8811	89.6160	89.2175	2.1085e-01	1.9002e+00
44	TAF120224	88.8712	89.7108	89.3124	2.1498e-01	1.9003e+00
45	TAF130224	88.4070	89.1441	88.7272	1.8044e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1262	1.8672e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2705	1.4079e-01	1.9010e+00
48	TAI130048	88.8779	90.1362	89.4859	3.1337e-01	1.9003e+00
49	TAI110136	88.3830	89.1168	88.7437	1.6571e-01	1.9002e+00
50	TAI110224	89.2289	90.3855	89.8433	3.1379e-01	1.9003e+00
51	TAI130312	88.6997	89.4360	89.0702	2.1359e-01	1.9002e+00
52	TAR130000	87.3437	88.2876	87.7006	1.9420e-01	1.9002e+00
53	TSI000001	80.7095	81.3434	81.0266	1.4940e-01	1.9001e+00
54	TSI000002	76.3215	77.3785	76.8496	2.4997e-01	1.9000e+00
55	TSO0000001	76.2513	76.9964	76.6434	2.0658e-01	1.9000e+00
56	TSO0000002	76.4753	77.2179	76.7937	1.8682e-01	1.9000e+00
57	TAF020136	88.1652	89.0090	88.5914	1.7821e-01	1.9002e+00
58	TAF120312	88.4291	89.3738	88.9455	2.7778e-01	1.9002e+00
59	TAF130312	88.2365	88.8667	88.5266	1.3346e-01	1.9002e+00
60	EMPTY	0.5322	0.5371	0.5337	2.2603e-03	0.0000e+00
61	EMPTY	0.5469	0.5518	0.5473	1.3381e-03	0.0000e+00
62	EMPTY	0.5566	0.5664	0.5605	2.2058e-03	0.0000e+00
63	EMPTY	0.5713	0.5762	0.5758	1.3381e-03	0.0000e+00
64	EMPTY	0.3613	0.3662	0.3660	9.6655e-04	0.0000e+00
65	EMPTY	0.3809	0.3906	0.3860	1.5314e-03	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4045	1.8082e-03	0.0000e+00
67	EMPTY	0.4199	0.4248	0.4227	2.4484e-03	0.0000e+00
68	EMPTY	0.4346	0.4395	0.4358	2.1635e-03	0.0000e+00
69	EMPTY	0.4541	0.4590	0.4544	1.1714e-03	0.0000e+00
70	EMPTY	0.4688	0.4736	0.4720	2.3365e-03	0.0000e+00
71	EMPTY	0.4932	0.4980	0.4939	1.8082e-03	0.0000e+00
72	EMPTY	0.5078	0.5127	0.5084	1.6028e-03	0.0000e+00
73	EMPTY	0.5273	0.5322	0.5285	2.1065e-03	0.0000e+00
74	EMPTY	0.5420	0.5469	0.5460	1.8950e-03	0.0000e+00
75	EMPTY	0.5615	0.5664	0.5617	9.6655e-04	0.0000e+00
76	EMPTY	0.5762	0.5811	0.5782	2.4344e-03	0.0000e+00
77	EMPTY	0.5957	0.6006	0.5980	2.4642e-03	0.0000e+00
78	EMPTY	0.6201	0.6201	0.6201	0.0000e+00	0.0000e+00
79	EMPTY	0.6396	0.6494	0.6445	9.8648e-04	0.0000e+00
80	PAN020136	0.4814	0.9392	0.6828	1.0763e-01	8.7000e-01
81	PAN050136	0.2016	0.8119	0.5403	1.6397e-01	1.6800e+00
82	PAN070136	0.0062	0.3876	0.2641	1.0442e-01	8.7000e-01
83	PAN080136	-0.1935	0.1879	-0.0318	9.9463e-02	8.7000e-01
84	PAN090136	0.3626	0.6677	0.4984	7.2772e-02	8.7000e-01
85	PAN100136	-1.7854	-1.4039	-1.5733	7.9032e-02	8.7001e-01
86	PAN105136	-0.2530	0.0522	-0.0577	7.4178e-02	8.7000e-01
87	PAN110136	0.1080	0.4131	0.2621	6.6279e-02	8.7000e-01
88	PAN115136	0.0991	0.4806	0.2868	8.4719e-02	8.7000e-01
89	PAN120136	0.6142	0.8430	0.7240	6.1962e-02	8.7000e-01
90	PAN125136	0.3442	0.6494	0.5334	5.3926e-02	8.7000e-01
91	PAN130136	-0.0389	0.1900	0.0847	5.3149e-02	8.7000e-01
92	PAN120048	-1.1149	-0.6572	-0.9440	8.7953e-02	8.7000e-01
93	PAN130048	0.6134	0.9186	0.7706	8.7750e-02	8.7000e-01
94	PAN120224	-1.3291	-1.1002	-1.2284	6.7960e-02	8.7001e-01
95	PAN130224	0.3802	0.6091	0.4824	6.0899e-02	8.7000e-01
96	PAN120312	0.0750	0.3039	0.2383	6.5413e-02	8.7000e-01
97	PAN130312	0.3773	0.7588	0.5711	8.4719e-02	8.7000e-01
98	PAB000136	25.6361	25.7734	25.7203	3.6245e-02	5.8355e-01
99	PAB100136	25.6370	25.7743	25.7267	4.0270e-02	5.8356e-01
100	PAB125136	25.5270	25.6643	25.5892	3.8974e-02	5.8352e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	25.4090	25.6532	25.5506	5.7096e-02	7.5272e-01
102	PRV0000001	24.3456	24.5897	24.5824	3.8286e-02	7.5251e-01
103	PSR0000001	25.3763	25.4983	25.3787	1.7263e-02	7.5268e-01
104	PPH0000001	18.3722	19.1046	18.6816	1.6738e-01	5.0218e-01
105	PAN0000136	1.2151	3.5040	2.3229	5.4784e-01	4.9200e+00
106	PPH0000002	17.4452	18.4855	18.0761	2.2387e-01	2.0504e-01
107	EMPTY	0.0049	0.0098	0.0050	6.9053e-04	0.0000e+00
108	EMPTY	-10.0000	0.7129	-7.3439	2.9026e+00	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	-0.0049	0.0000	-0.0001	6.9053e-04	0.0000e+00
112	VPW0000001	-0.0601	0.1352	0.0180	9.6655e-02	8.1000e-01
113	VPW0000002	-0.0376	0.1577	0.0796	9.6655e-02	8.1000e-01
114	VPW0000003	-0.2817	0.3042	0.0152	1.1995e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	0.0216	1.1084e-01	8.1000e-01
116	VPW0000005	-0.3531	0.2329	-0.0093	1.2200e-01	8.1000e-01
117	VPW0000006	-0.0413	0.3493	0.0954	1.0625e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.6203	1.1023e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	-0.0495	1.1567e+00	8.1000e+00
120	IPW0000003	-1.5750	4.2750	0.5310	1.2971e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1465	2.4164e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.1844	2.6905e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.0808	3.4527e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0193	2.9528e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0124	2.8266e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0163	2.8946e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0150	3.5348e-03	0.0000e+00
128	IHT0000001	-0.3456	0.2404	0.0177	9.6735e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0121	7.5283e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	0.0080	6.1257e-02	4.1000e+00
131	IHT0000004	-0.0901	0.1052	0.0466	9.0412e-02	4.1000e+00
132	IHT0000005	-0.0789	0.1164	0.0305	9.7935e-02	4.1000e+00
133	IHT0000006	-0.1239	0.0714	0.0089	9.2034e-02	4.1000e+00
134	IHT0000007	-0.0150	0.1803	0.0123	6.8459e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0290	9.4702e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0002	6.2265e-02	4.1000e+00
137	IHT0000010	-0.0488	0.3418	0.0176	1.0145e-01	4.1000e+00
138	IHT0000011	-0.0338	0.1615	0.0326	9.3461e-02	4.1000e+00
139	IHT0000012	-0.0864	0.3042	0.0191	1.0595e-01	4.1000e+00
140	IHT0000013	-0.1578	0.2329	-0.0132	1.0297e-01	4.1000e+00
141	IHT0000014	-0.2592	0.3268	0.0494	1.1223e-01	4.1000e+00
142	IHT0000015	-0.2028	0.1878	-0.0075	7.8918e-02	4.1000e+00
143	IHT0000016	-0.0638	0.5221	0.0338	1.2001e-01	4.1000e+00
144	IHT0000017	-0.4582	0.5183	-0.0129	2.7633e-01	4.1000e+00
145	IHT0000018	-0.1164	0.0789	-0.0305	9.7935e-02	4.1000e+00
146	IHT0000019	-0.5672	0.0188	-0.2273	1.4664e-01	4.1000e+00
147	IHT0000020	-0.1052	0.2855	0.0081	1.1223e-01	4.1000e+00
148	IHT0000021	-0.0638	0.3268	0.0299	1.0617e-01	4.1000e+00
149	IHT0000022	-0.2892	0.2967	-0.0314	1.1464e-01	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0200	8.2393e-02	4.1000e+00
151	IHT0000024	0.0376	0.4282	0.1118	1.0358e-01	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0332	9.5357e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0268	9.1779e-02	4.1000e+00
154	IHT0000027	-0.0113	0.1840	0.0317	8.1729e-02	4.1000e+00
155	IHT0000028	-0.1803	0.4056	0.0306	1.1732e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0413	0.3493	0.0329	1.0358e-01	4.1000e+00
157	IHT0000030	0.0075	0.3981	0.0388	8.2393e-02	4.1000e+00
158	IHT0000031	-0.2442	0.3418	0.0644	1.3141e-01	4.1000e+00
159	IHT0000032	-0.2404	0.1502	0.0291	1.0358e-01	4.1000e+00
160	IHT0000033	-0.2329	0.3531	0.0367	1.1084e-01	4.1000e+00
161	IHT0000034	-0.1765	0.2141	0.0227	7.3716e-02	4.1000e+00
162	IHT0000035	-0.2216	0.3643	0.0675	1.2627e-01	4.1000e+00
163	IHT0000036	-0.0939	0.2967	0.0389	1.0763e-01	4.1000e+00

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Velocity 1 = 13.0006 (ft/sec) (+/- 1.9309 %)
 Velocity 2 = 12.4843 (ft/sec) (+/- 1.7138 %)
 Pressure drop = 1.9295 (psi)
 Tsat in = 246.0649 (deg F) Tsat out = 242.0142 (deg F)
 Phi inner = 0.0000 (kBtu/hr-ft2) (+/- 3590.3186 %)
 Phi outer = 0.0000 (kBtu/hr-ft2) (+/- 4078.2810 %)
 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	TRP000001	74.0527	74.4796	74.3088	1.6698e-01	1.9000e+00
1	TRP000002	73.7731	74.4101	74.0916	1.2322e-01	1.9000e+00
2	TRP000001	88.8369	89.4669	89.1752	1.6727e-01	1.9002e+00
3	TIN000001	87.9463	88.5773	88.2723	1.4915e-01	1.9002e+00
4	TRV000001	88.2037	89.1448	88.7490	2.1391e-01	1.9002e+00
5	TSR000001	88.3089	89.0426	88.6677	1.5996e-01	1.9002e+00
6	TAO020136	80.9005	81.9582	81.4231	2.3560e-01	1.9001e+00
7	TAO050136	88.3783	89.1111	88.7458	1.7093e-01	1.9002e+00
8	TAO070136	88.1956	89.1436	88.7536	2.1200e-01	1.9002e+00
9	TAO080136	88.2782	88.9076	88.6206	1.7164e-01	1.9002e+00
10	TAO090136	88.9586	89.6929	89.2841	1.7617e-01	1.9003e+00
11	TAO100136	88.2086	88.8390	88.6016	1.4042e-01	1.9002e+00
12	TAO105136	89.1375	90.0833	89.5812	2.0174e-01	1.9003e+00
13	TAO110136	88.6777	89.3062	89.0239	1.5998e-01	1.9002e+00
14	TAO115136	88.6443	89.5898	89.1635	2.4336e-01	1.9002e+00
15	TAO120136	88.1555	88.7862	88.6368	1.3285e-01	1.9002e+00
16	TAO125136	89.1050	89.6300	89.4179	1.5507e-01	1.9003e+00
17	TAO130136	88.3127	88.9372	88.5910	1.7196e-01	1.9002e+00
18	TAO120048	75.1942	75.7254	75.4642	1.3610e-01	1.9000e+00
19	TAO130048	88.0871	88.7171	88.4841	1.5329e-01	1.9002e+00
20	TAO120224	88.5139	89.0393	88.8019	1.4678e-01	1.9002e+00
21	TAO130224	88.4591	89.2927	88.8594	1.6443e-01	1.9002e+00
22	TAO120312	88.3937	89.2347	88.8500	1.8751e-01	1.9002e+00
23	TAO130312	88.2615	88.8915	88.6501	1.4880e-01	1.9002e+00
24	TRT020000	88.7741	89.6157	89.2644	2.0898e-01	1.9002e+00
25	TRT070000	88.6589	89.3970	89.0407	1.4733e-01	1.9002e+00
26	TRT100000	88.9169	89.7549	89.3172	1.8532e-01	1.9003e+00
27	TRT120000	88.7243	89.3544	89.0375	1.4309e-01	1.9002e+00
28	TRT125000	88.7059	89.3335	89.0509	1.6800e-01	1.9002e+00
29	TRT130000	88.5265	89.0517	88.8856	1.3270e-01	1.9002e+00
30	EMPTY	39.3761	40.0646	39.6607	1.9978e-01	1.9011e+00
31	TAP050136	88.8653	89.7021	89.2688	1.6261e-01	1.9003e+00
32	TAP070136	89.0624	90.1081	89.5713	2.2245e-01	1.9003e+00
33	TAP080136	88.7182	89.4500	89.1552	1.6466e-01	1.9002e+00
34	TAP090136	74.8951	76.1674	75.6142	2.9985e-01	1.9000e+00
35	TAP100136	88.6869	89.3178	89.0296	1.6704e-01	1.9002e+00
36	TAP105136	88.3690	89.4116	88.9087	2.4630e-01	1.9002e+00
37	TAP110136	88.4029	89.0325	88.7788	1.4834e-01	1.9002e+00
38	TAP115136	88.8980	89.7367	89.3282	1.9301e-01	1.9003e+00
39	TAP120136	88.8322	89.4616	89.1411	1.2622e-01	1.9002e+00
40	TAP125136	88.8052	89.6417	89.2097	2.2951e-01	1.9002e+00
41	TAP130136	88.5961	89.4351	89.0432	1.6383e-01	1.9002e+00
42	TAP120048	89.0854	89.9292	89.4802	2.1910e-01	1.9003e+00
43	TAP130048	88.5674	89.4067	89.0271	1.8221e-01	1.9002e+00
44	TAP120224	88.5580	89.5016	89.1305	2.0116e-01	1.9002e+00
45	TAP130224	88.1962	88.9335	88.5565	1.5206e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.6870	38.1353	2.2276e-01	1.9010e+00
47	EMPTY	38.9168	39.3761	39.2062	1.2107e-01	1.9010e+00
48	TAI130048	88.7725	89.9267	89.3414	2.4437e-01	1.9003e+00
49	TAI130136	88.0689	89.0119	88.6080	2.1061e-01	1.9002e+00
50	TAI130224	89.1246	90.0701	89.5596	2.4672e-01	1.9003e+00
51	TAI130312	88.4902	89.2260	88.8750	1.9526e-01	1.9002e+00
52	TAR130000	87.1343	88.0784	87.6527	2.2752e-01	1.9002e+00
53	TSI000001	81.0256	81.6587	81.3825	1.5939e-01	1.9001e+00
54	TSI000002	76.8485	77.8005	77.2573	2.7436e-01	1.9000e+00
55	TSO000001	76.3587	77.4217	77.0199	1.9247e-01	1.9000e+00
56	TSO000002	76.8991	77.8532	77.3975	1.9771e-01	1.9000e+00
57	TAP020136	88.0593	88.7978	88.4201	1.6930e-01	1.9002e+00
58	TAP120312	88.2193	89.1642	88.6668	2.8260e-01	1.9002e+00
59	TAP130312	87.9224	88.6573	88.3739	1.7135e-01	1.9002e+00
60	EMPTY	0.5273	0.5322	0.5287	2.2146e-03	0.0000e+00
61	EMPTY	0.5420	0.5420	0.5420	0.0000e+00	0.0000e+00
62	EMPTY	0.5518	0.5615	0.5559	2.0598e-03	0.0000e+00
63	EMPTY	0.5664	0.5713	0.5710	1.1714e-03	0.0000e+00
64	EMPTY	0.3564	0.3662	0.3657	1.7784e-03	0.0000e+00
65	EMPTY	0.3857	0.3906	0.3860	1.1714e-03	0.0000e+00
66	EMPTY	0.4004	0.4053	0.4049	1.3381e-03	0.0000e+00
67	EMPTY	0.4199	0.4248	0.4245	1.1714e-03	0.0000e+00
68	EMPTY	0.4346	0.4443	0.4388	1.9754e-03	0.0000e+00
69	EMPTY	0.4541	0.4688	0.4572	2.9197e-03	0.0000e+00
70	EMPTY	0.4688	0.4736	0.4735	6.9053e-04	0.0000e+00
71	EMPTY	0.4932	0.4980	0.4972	1.8950e-03	0.0000e+00
72	EMPTY	0.5078	0.5127	0.5124	1.1714e-03	0.0000e+00
73	EMPTY	0.5322	0.5322	0.5322	0.0000e+00	0.0000e+00
74	EMPTY	0.5469	0.5518	0.5472	1.1714e-03	0.0000e+00
75	EMPTY	0.5615	0.5713	0.5665	1.2041e-03	0.0000e+00
76	EMPTY	0.5713	0.5859	0.5812	1.8429e-03	0.0000e+00
77	EMPTY	0.6006	0.6055	0.6009	1.1714e-03	0.0000e+00
78	EMPTY	0.6201	0.6299	0.6250	9.8648e-04	0.0000e+00
79	EMPTY	0.6494	0.6494	0.6494	0.0000e+00	0.0000e+00
80	PAN020136	6.9664	8.1871	7.3967	2.5596e-01	8.7020e-01
81	PAN050136	11.9508	13.1715	12.6008	2.8053e-01	1.6803e+00
82	PAN070136	8.0933	8.7037	8.3604	1.5278e-01	8.7025e-01
83	PAN080136	3.8500	4.2315	4.0377	8.7479e-02	8.7006e-01
84	PAN090136	4.5587	5.1691	4.7815	1.2219e-01	8.7008e-01
85	PAN100136	1.4952	1.9530	1.7058	1.1175e-01	8.7001e-01
86	PAN105136	1.7306	2.0358	1.9107	7.6698e-02	8.7001e-01
87	PAN110136	2.1679	2.5494	2.3663	8.0092e-02	8.7002e-01
88	PAN115136	2.3879	2.6931	2.5481	8.0462e-02	8.7002e-01
89	PAN120136	2.5215	2.9030	2.7184	8.0225e-02	8.7003e-01
90	PAN125136	2.5567	2.8619	2.7185	7.6512e-02	8.7003e-01
91	PAN130136	1.7922	2.0974	1.9204	7.4625e-02	8.7001e-01
92	PAN120048	2.6998	3.2338	2.8859	9.8888e-02	8.7003e-01
93	PAN130048	4.7333	5.3437	5.1117	1.0450e-01	8.7009e-01
94	PAN120224	2.1805	2.6382	2.3636	9.2482e-02	8.7002e-01
95	PAN130224	4.4238	4.8053	4.6023	9.0679e-02	8.7008e-01
96	PAN120312	3.9660	4.5001	4.3154	1.2531e-01	8.7007e-01
97	PAN130312	4.5735	5.1075	4.8390	1.0367e-01	8.7008e-01
98	PAB000136	27.6045	27.9707	27.8077	7.6911e-02	5.8415e-01
99	PAB100136	26.3236	26.5525	26.4390	5.2512e-02	5.8375e-01
100	PAB125136	25.8016	25.9847	25.9060	4.3417e-02	5.8360e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	27.4842	27.8504	27.6234	9.5547e-02	7.5317e-01
102	PRV0000001	24.3456	24.4677	24.4652	1.7263e-02	7.5249e-01
103	PSR0000001	25.3763	25.4983	25.4153	5.7521e-02	7.5269e-01
104	PFH0000001	25.5133	26.2457	25.8722	1.8574e-01	5.0417e-01
105	PAN000136	49.2803	56.6046	53.4185	1.3902e+00	4.9218e+00
106	PFH0000002	22.5798	24.5934	23.8436	4.3664e-01	2.0869e-01
107	EMPTY	0.0049	0.0098	0.0055	1.6028e-03	0.0000e+00
108	EMPTY	-10.0000	0.3516	-7.3113	3.0974e+00	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	0.0002	9.6655e-04	0.0000e+00
112	VPW0000001	-0.0601	0.1352	0.0337	9.8569e-02	8.1000e-01
113	VPW0000002	-0.2329	0.1577	0.0523	1.0595e-01	8.1000e-01
114	VPW0000003	-0.2817	0.3042	0.0308	1.1161e-01	8.1000e-01
115	VPW0000004	-0.2479	0.1427	0.0021	1.0470e-01	8.1000e-01
116	VPW0000005	-0.1577	0.2329	0.0337	9.2456e-02	8.1000e-01
117	VPW0000006	-0.2366	0.3493	0.0563	1.2001e-01	8.1000e-01
118	IPW0000001	-1.8397	2.0650	0.7765	1.0881e+00	8.1000e+00
119	IPW0000002	-2.6642	3.1896	0.0676	1.2466e+00	8.1000e+00
120	IPW0000003	-1.5750	4.2750	0.2190	1.4117e+00	8.1000e+00
121	IPW0000004	-0.2441	0.7324	0.1953	2.0337e-01	2.0000e+00
122	IPW0000005	-0.4601	0.5164	0.1160	2.5513e-01	2.0000e+00
123	IPW0000006	-0.5540	0.9109	0.1003	3.5030e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0146	-0.0188	3.1211e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0098	-0.0137	2.7902e-03	0.0000e+00
126	EMPTY	-0.0244	-0.0049	-0.0155	3.5141e-03	0.0000e+00
127	EMPTY	-0.0195	-0.0098	-0.0159	3.2434e-03	0.0000e+00
128	IHT0000001	-0.3456	0.2404	0.0138	9.9512e-02	4.1000e+00
129	IHT0000002	-0.2066	0.1840	0.0004	9.1779e-02	4.1000e+00
130	IHT0000003	-0.1991	0.1916	0.0080	7.2866e-02	4.1000e+00
131	IHT0000004	-0.0901	0.3005	0.0075	1.0625e-01	4.1000e+00
132	IHT0000005	-0.0789	0.3117	0.0305	1.1272e-01	4.1000e+00
133	IHT0000006	-0.1239	0.0714	-0.0028	9.5765e-02	4.1000e+00
134	IHT0000007	-0.2104	0.3756	0.0279	9.8963e-02	4.1000e+00
135	IHT0000008	-0.0413	0.1540	0.0173	9.0412e-02	4.1000e+00
136	IHT0000009	-0.1916	0.1991	-0.0158	8.1347e-02	4.1000e+00
137	IHT0000010	-0.0488	0.1465	0.0097	9.0412e-02	4.1000e+00
138	IHT0000011	-0.2291	0.1615	0.0092	9.8963e-02	4.1000e+00
139	IHT0000012	-0.2817	0.1089	-0.0083	1.0440e-01	4.1000e+00
140	IHT0000013	-0.1578	0.0376	-0.0249	9.2034e-02	4.1000e+00
141	IHT0000014	-0.0639	0.1314	0.0533	9.6655e-02	4.1000e+00
142	IHT0000015	-0.2028	0.1878	-0.0036	4.8166e-02	4.1000e+00
143	IHT0000016	-0.0638	0.3268	0.0260	1.0595e-01	4.1000e+00
144	IHT0000017	-0.4582	0.5183	0.0418	2.6517e-01	4.1000e+00
145	IHT0000018	-0.1164	0.2742	-0.0227	1.1327e-01	4.1000e+00
146	IHT0000019	-0.3718	0.0188	-0.2234	1.0106e-01	4.1000e+00
147	IHT0000020	-0.1052	0.0902	0.0159	9.5765e-02	4.1000e+00
148	IHT0000021	-0.0638	0.1315	0.0143	9.6655e-02	4.1000e+00
149	IHT0000022	-0.0939	0.1014	-0.0236	9.4702e-02	4.1000e+00
150	IHT0000023	-0.2066	0.1840	0.0121	7.5283e-02	4.1000e+00
151	IHT0000024	0.0376	0.2329	0.1040	9.3461e-02	4.1000e+00
152	IHT0000025	-0.2442	0.1465	-0.0449	4.8166e-02	4.1000e+00
153	IHT0000026	-0.1803	0.2104	0.0111	4.8166e-02	4.1000e+00
154	IHT0000027	-0.2066	0.1840	0.0356	9.3043e-02	4.1000e+00
155	IHT0000028	-0.1803	0.2103	-0.0045	1.2001e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2366	0.1540	-0.0023	8.8233e-02	4.1000e+00
157	IHT0000030	-0.1878	0.2028	-0.0120	1.1334e-01	4.1000e+00
158	IHT0000031	-0.2442	0.3418	0.0254	1.2409e-01	4.1000e+00
159	IHT0000032	-0.2404	0.3455	-0.0099	9.4125e-02	4.1000e+00
160	IHT0000033	-0.2329	0.1578	-0.0024	9.4125e-02	4.1000e+00
161	IHT0000034	-0.1765	0.2141	-0.0203	9.6655e-02	4.1000e+00
162	IHT0000035	-0.2216	0.1690	0.0089	8.5454e-02	4.1000e+00
163	IHT0000036	-0.0939	0.1014	0.0037	9.8648e-02	4.1000e+00

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Velocity 1 - 6.9858 (ft/sec) (+/- 3.7782 %)
 Velocity 2 - 6.9249 (ft/sec) (+/- 2.0823 %)
 Pressure drop - -2.9680 (psi)
 Tsat in - 233.5649 (deg F) Tsat out - 240.1592 (deg F)
 Phi inner - 0.0000 (kbtu/hr-ft2) (+/- 2445.2502 %)
 Phi outer - 0.0000 (kbtu/hr-ft2) (+/- 2824.5610 %)
 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	74.0527	74.6929	74.3472	1.6636e-01	1.9000e+00
1	TRF0000002	73.9855	74.4101	74.1468	1.1795e-01	1.9000e+00
2	TRF0000001	88.5224	89.1526	88.8357	1.8784e-01	1.9002e+00
3	TIN0000001	87.6304	88.1568	87.8559	1.2034e-01	1.9002e+00
4	TRV0000001	87.7842	88.7265	88.2353	2.1792e-01	1.9002e+00
5	TSR0000001	88.2054	88.8338	88.5426	1.3622e-01	1.9002e+00
6	TAO020136	81.2176	82.2757	81.7319	2.1791e-01	1.9001e+00
7	TAO050136	88.0656	88.6952	88.3619	1.5913e-01	1.9002e+00
8	TAO070136	88.0895	88.7220	88.3742	1.8587e-01	1.9002e+00
9	TAO080136	87.9658	88.5959	88.2621	1.4937e-01	1.9002e+00
10	TAO090136	88.5407	89.2743	88.9200	1.8574e-01	1.9002e+00
11	TAO100136	87.8943	88.5254	88.1700	1.5730e-01	1.9002e+00
12	TAO105136	88.7171	89.6633	89.1693	2.0176e-01	1.9002e+00
13	TAO110136	88.2636	88.8904	88.6336	1.6532e-01	1.9002e+00
14	TAO115136	88.3288	89.1704	88.7559	1.9967e-01	1.9002e+00
15	TAO120136	88.0506	88.4720	88.2675	1.0930e-01	1.9002e+00
16	TAO125136	88.6862	89.2113	89.0370	1.5527e-01	1.9002e+00
17	TAO130136	87.8990	88.4218	88.1988	1.4909e-01	1.9002e+00
18	TAO120048	75.5123	76.1499	75.7951	1.5414e-01	1.9000e+00
19	TAO130048	87.7738	88.2990	88.0912	1.5365e-01	1.9002e+00
20	TAO120224	88.0944	88.6200	88.3826	1.5139e-01	1.9002e+00
21	TAO130224	88.0459	88.7770	88.4276	1.6051e-01	1.9002e+00
22	TAO120312	87.9734	88.8145	88.4717	1.7368e-01	1.9002e+00
23	TAO130312	87.9478	88.6823	88.2778	1.5292e-01	1.9002e+00
24	TRT020000	88.4580	89.1949	88.8476	1.8809e-01	1.9002e+00
25	TRT070000	88.3414	88.9747	88.6603	1.4519e-01	1.9002e+00
26	TRT100000	88.4991	89.2332	88.9285	1.8734e-01	1.9002e+00
27	TRT120000	88.4101	88.8314	88.6145	1.0502e-01	1.9002e+00
28	TRT125000	88.2889	89.0222	88.6386	1.9779e-01	1.9002e+00
29	TRT130000	88.1077	88.8424	88.4796	1.4877e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6102	2.2477e-01	1.9011e+00
31	TAF050136	88.4474	89.2845	88.8973	1.8486e-01	1.9002e+00
32	TAF070136	88.7502	89.4829	89.1339	1.7367e-01	1.9002e+00
33	TAF080136	88.4073	89.0340	88.7436	1.3593e-01	1.9002e+00
34	TAF090136	75.6366	76.5906	76.1690	2.2083e-01	1.9000e+00
35	TAF100136	88.2662	89.0027	88.6175	1.5852e-01	1.9002e+00
36	TAF105136	87.9521	89.1010	88.5555	2.7275e-01	1.9002e+00
37	TAF110136	88.0901	88.7204	88.3697	1.6365e-01	1.9002e+00
38	TAF115136	88.3753	89.3186	88.9186	1.9832e-01	1.9002e+00
39	TAF120136	88.4161	89.1495	88.7490	1.3033e-01	1.9002e+00
40	TAF125136	88.1827	89.3313	88.8191	2.5816e-01	1.9002e+00
41	TAF130136	88.2826	89.9132	88.6502	1.5901e-01	1.9002e+00
42	TAF120048	88.6631	89.2962	89.0072	1.8916e-01	1.9002e+00
43	TAF130048	88.2534	88.9881	88.6379	1.7435e-01	1.9002e+00
44	TAF120224	88.2442	89.1886	88.6786	2.0107e-01	1.9002e+00
45	TAF130224	87.8796	88.5121	88.1265	1.7757e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1446	1.9016e-01	1.9010e+00
47	EMPTY	39.1464	39.3761	39.2429	1.1449e-01	1.9010e+00
48	TAI130048	88.2480	89.6129	88.9557	3.2063e-01	1.9002e+00
49	TAI130136	87.7556	88.6989	88.1693	1.7507e-01	1.9002e+00
50	TAI130224	88.7040	89.7552	89.3158	3.0613e-01	1.9003e+00
51	TAI130312	88.1749	88.9115	88.5348	1.7526e-01	1.9002e+00
52	TRR130000	86.8206	87.8691	87.3599	2.0754e-01	1.9002e+00
53	TSI0000001	81.2361	81.8697	81.5216	1.4811e-01	1.9001e+00
54	TSI0000002	77.1661	78.5379	77.6754	2.7466e-01	1.9000e+00
55	TSO0000001	76.9967	77.9533	77.3983	1.9600e-01	1.9000e+00
56	TSO0000002	77.4292	78.2765	77.8126	1.9254e-01	1.9000e+00
57	TAF020136	87.6363	88.2695	87.9973	1.6523e-01	1.9002e+00
58	TAF120312	87.6954	88.7449	88.2223	2.8649e-01	1.9002e+00
59	TAF130312	87.7129	88.2384	87.9593	1.4643e-01	1.9002e+00
60	EMPTY	0.5176	0.5225	0.5177	6.9053e-04	0.0000e+00
61	EMPTY	0.5322	0.5371	0.5324	9.6655e-04	0.0000e+00
62	EMPTY	0.5420	0.5469	0.5443	2.4642e-03	0.0000e+00
63	EMPTY	0.5566	0.5615	0.5612	1.1714e-03	0.0000e+00
64	EMPTY	0.3564	0.3564	0.3564	0.0000e+00	0.0000e+00
65	EMPTY	0.3760	0.3809	0.3799	1.9730e-03	0.0000e+00
66	EMPTY	0.3955	0.4004	0.3956	6.9053e-04	0.0000e+00
67	EMPTY	0.4150	0.4150	0.4150	0.0000e+00	0.0000e+00
68	EMPTY	0.4297	0.4297	0.4297	0.0000e+00	0.0000e+00
69	EMPTY	0.4443	0.4492	0.4487	1.4797e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4637	9.6655e-04	0.0000e+00
71	EMPTY	0.4834	0.4883	0.4879	1.3381e-03	0.0000e+00
72	EMPTY	0.4932	0.5029	0.5026	1.5314e-03	0.0000e+00
73	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
74	EMPTY	0.5371	0.5469	0.5374	1.5314e-03	0.0000e+00
75	EMPTY	0.5518	0.5615	0.5566	9.8648e-04	0.0000e+00
76	EMPTY	0.5664	0.5762	0.5713	9.8648e-04	0.0000e+00
77	EMPTY	0.5908	0.5957	0.5909	6.9053e-04	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6150	9.6655e-04	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6396	6.9053e-04	0.0000e+00
80	PAN020136	-10.1998	-9.8183	-10.0060	7.7392e-02	8.7036e-01
81	PAN050136	-19.7875	-19.3297	-19.5525	1.4528e-01	1.6807e+00
82	PAN070136	-13.4216	-13.0401	-13.1988	7.6822e-02	8.7063e-01
83	PAN080136	-6.8311	-6.5259	-6.7106	8.7316e-02	8.7016e-01
84	PAN090136	-6.6565	-6.3513	-6.4520	7.7744e-02	8.7015e-01
85	PAN100136	-7.3549	-7.0497	-7.2114	8.1036e-02	8.7019e-01
86	PAN105136	-3.3811	-3.0759	-3.2483	6.6850e-02	8.7004e-01
87	PAN110136	-3.1727	-2.9438	-3.0201	5.9697e-02	8.7003e-01
88	PAN115136	-3.1816	-2.8764	-3.0229	7.0365e-02	8.7003e-01
89	PAN120136	-3.2005	-2.8954	-3.0510	6.7116e-02	8.7003e-01
90	PAN125136	-3.2416	-3.0890	-3.1378	4.5620e-02	8.7004e-01
91	PAN130136	-3.3195	-3.0906	-3.2005	4.9131e-02	8.7004e-01
92	PAN120048	-7.4473	-7.2184	-7.3390	6.3720e-02	8.7019e-01
93	PAN130048	-6.3293	-6.1004	-6.1966	7.0314e-02	8.7014e-01
94	PAN120224	-7.1274	-6.8985	-7.0267	5.8572e-02	8.7018e-01
95	PAN130224	-6.4863	-6.1811	-6.3169	7.5966e-02	8.7014e-01
96	PAN120312	-6.5625	-6.2574	-6.4527	7.5763e-02	8.7015e-01
97	PAN130312	-6.4892	-6.2603	-6.3763	6.2116e-02	8.7015e-01
98	PAB000136	22.2029	22.3402	22.2780	4.3141e-02	5.8267e-01
99	PAB100136	24.5384	24.6757	24.6199	4.1658e-02	5.8326e-01
100	PAB125136	25.0234	25.1608	25.0720	3.8588e-02	5.8338e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	21.9911	22.1131	22.1009	3.6993e-02	7.5203e-01
102	PRV000001	24.4677	24.5897	24.4750	2.9284e-02	7.5249e-01
103	PSR000001	25.2542	25.3763	25.3372	5.7521e-02	7.5267e-01
104	PFH000001	7.1112	7.5689	7.3785	9.2186e-02	5.0034e-01
105	PAN000136	-82.5556	81.6401	-82.1711	3.2514e-01	4.9243e+00
106	PFH000002	7.1424	7.3773	7.2488	5.5767e-02	2.0082e-01
107	EMPTY	-0.0049	0.0049	0.0044	1.7784e-03	0.0000e+00
108	EMPTY	-10.0000	-0.5811	-7.4337	2.9497e+00	0.0000e+00
109	EMPTY	-0.0049	0.0049	0.0019	2.5894e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	-0.0049	0.0000	-0.0002	9.6655e-04	0.0000e+00
112	VPW000001	-0.0601	0.3305	0.0532	1.0507e-01	8.1000e-01
113	VPW000002	-0.2329	0.1577	0.0366	1.0358e-01	8.1000e-01
114	VPW000003	-0.2817	0.3042	0.0386	1.2327e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	0.0412	1.0617e-01	8.1000e-01
116	VPW000005	-0.1577	0.4282	0.0649	1.1844e-01	8.1000e-01
117	VPW000006	-0.2366	0.3493	0.0759	1.2478e-01	8.1000e-01
118	IPW000001	-1.8397	4.0173	0.3469	1.1594e+00	8.1000e+00
119	IPW000002	-0.7129	3.1896	0.3017	1.0607e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.6480	1.2464e+00	8.1000e+00
121	IPW000004	-0.2441	0.7324	0.1758	2.6118e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.0965	2.7916e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0905	3.3366e-01	2.0000e+00
124	EMPTY	-0.0293	-0.0146	-0.0193	3.8155e-03	0.0000e+00
125	EMPTY	-0.0195	-0.0049	-0.0136	2.8403e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0164	2.9197e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0148	3.6858e-03	0.0000e+00
128	IHT000001	-0.1503	0.2404	0.0216	8.4997e-02	4.1000e+00
129	IHT000002	-0.2066	0.1840	-0.0035	8.7880e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0041	8.7880e-02	4.1000e+00
131	IHT000004	-0.0901	0.3005	0.0271	1.1161e-01	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0227	1.1327e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0089	1.0014e-01	4.1000e+00
134	IHT000007	-0.2104	0.1803	0.0162	9.1354e-02	4.1000e+00
135	IHT000008	-0.2366	0.1540	0.0173	9.8648e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	-0.0080	7.2866e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0449	1.0617e-01	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0560	9.8332e-02	4.1000e+00
139	IHT000012	-0.2817	0.3042	0.0347	1.1084e-01	4.1000e+00
140	IHT000013	-0.1578	0.2329	0.0180	7.1136e-02	4.1000e+00
141	IHT000014	-0.0639	0.3268	0.0963	9.4125e-02	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0159	7.5283e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0651	9.3461e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0535	2.4289e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	0.0242	1.1864e-01	4.1000e+00
146	IHT000019	-0.3718	0.0188	-0.2351	1.1334e-01	4.1000e+00
147	IHT000020	-0.3005	0.0902	0.0003	1.0595e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0221	9.7935e-02	4.1000e+00
149	IHT000022	-0.2892	0.1014	-0.0275	1.0885e-01	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0121	1.0168e-01	4.1000e+00
151	IHT000024	0.0376	0.2329	0.1313	9.8569e-02	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0606	8.2864e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0111	8.3612e-02	4.1000e+00
154	IHT000027	-0.2066	0.7700	0.0317	1.3258e-01	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0006	1.1049e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.1540	-0.0023	7.8918e-02	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0036	1.0052e-01	4.1000e+00
158	IHT000031	-0.0488	0.3418	0.0371	1.0559e-01	4.1000e+00
159	IHT000032	-0.2404	0.3455	0.0174	1.1464e-01	4.1000e+00
160	IHT000033	-0.0376	0.3531	0.0367	1.0358e-01	4.1000e+00
161	IHT000034	-0.3718	0.2141	0.0032	9.5357e-02	4.1000e+00
162	IHT000035	-0.2216	0.1690	0.0401	1.0145e-01	4.1000e+00
163	IHT000036	-0.0939	0.1014	0.0194	9.7377e-02	4.1000e+00

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Velocity 1 - 0.1446 (ft/sec) (+/- 21072.6680 %)
 Velocity 2 - 0.6051 (ft/sec) (+/- 211.7167 %)
 Pressure drop - 0.0283 (psi)
 Tsat in - 240.2338 (deg F) Tsat out - 240.0352 (deg F)
 Phi inner - 0.0000 (kbtu/hr-ft2) (+/- 9074.6699 %)
 Phi outer - 0.0000 (kbtu/hr-ft2) (+/- 6553.9272 %)
 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	74.0527	74.6929	74.3856	1.6222e-01	1.9000e+00
1	TRF0000002	73.9855	74.4101	74.1935	1.1740e-01	1.9000e+00
2	TFM0000001	88.1034	88.9430	88.5380	2.1414e-01	1.9002e+00
3	TIND000001	86.6838	87.3154	87.0269	1.3257e-01	1.9002e+00
4	TRV0000001	87.4716	88.3107	87.8970	1.8494e-01	1.9002e+00
5	TSR0000001	88.2054	88.8352	88.4593	1.4063e-01	1.9002e+00
6	TAO020136	81.5347	82.3812	81.8884	2.2374e-01	1.9001e+00
7	TAO050136	87.7527	88.3831	87.0782	1.7230e-01	1.9002e+00
8	TAO070136	87.6678	88.6162	88.1043	2.0201e-01	1.9002e+00
9	TAO080136	87.7588	88.3872	88.0329	1.3545e-01	1.9002e+00
10	TAO090136	88.2258	89.0659	88.5977	2.2945e-01	1.9002e+00
11	TAO100136	87.2660	88.2103	87.9018	1.8549e-01	1.9002e+00
12	TAO105136	88.5070	89.4526	88.9087	2.0114e-01	1.9002e+00
13	TAO110136	88.0555	88.6849	88.3512	1.6601e-01	1.9002e+00
14	TAO115136	88.0138	88.8549	88.4743	2.0684e-01	1.9002e+00
15	TAO120136	87.7357	88.3671	87.9822	1.5262e-01	1.9002e+00
16	TAO125136	88.3722	89.0029	88.6226	1.4211e-01	1.9002e+00
17	TAO130136	87.3837	88.0117	87.7444	1.4795e-01	1.9002e+00
18	TAO120048	75.6189	76.2559	75.9605	1.3788e-01	1.9000e+00
19	TAO130048	87.4604	87.8820	87.6480	1.2253e-01	1.9002e+00
20	TAO120224	87.7797	88.3060	88.0849	1.1682e-01	1.9002e+00
21	TAO130224	87.6300	88.3619	88.0582	1.5265e-01	1.9002e+00
22	TAO120312	87.7626	88.3943	88.1606	1.6640e-01	1.9002e+00
23	TAO130312	87.6340	88.2638	87.8551	1.5333e-01	1.9002e+00
24	TRO200000	88.1424	88.8794	88.5318	2.0203e-01	1.9002e+00
25	TRO700000	88.1293	88.6578	88.3559	1.6232e-01	1.9002e+00
26	TRO100000	88.2894	89.2332	88.6610	2.0661e-01	1.9002e+00
27	TRO200000	88.0958	88.6219	88.3128	1.4144e-01	1.9002e+00
28	TRO125000	87.8718	88.7103	88.3471	1.8331e-01	1.9002e+00
29	TRO130000	87.7937	88.3192	88.0777	1.3457e-01	1.9002e+00
30	EMPTY	39.1464	40.0646	39.6194	2.2913e-01	1.9011e+00
31	TAF050136	88.3433	88.9716	88.6009	1.5435e-01	1.9002e+00
32	TAF070136	88.5434	89.3799	88.8632	1.8454e-01	1.9002e+00
33	TAF080136	88.1986	88.7232	88.4485	1.5082e-01	1.9002e+00
34	TAF090136	75.6375	76.8030	76.1607	2.7428e-01	1.9000e+00
35	TAF100136	88.0553	88.8972	88.3608	1.8804e-01	1.9002e+00
36	TAF105136	87.6412	88.7875	88.2562	2.8761e-01	1.9002e+00
37	TAF110136	87.7771	88.5115	88.0942	1.6471e-01	1.9002e+00
38	TAF115136	88.0623	89.0058	88.6636	1.9498e-01	1.9002e+00
39	TAF120136	88.2066	88.8369	88.4861	1.4620e-01	1.9002e+00
40	TAF125136	87.9745	89.0202	88.5657	2.6617e-01	1.9002e+00
41	TAF130136	87.9696	88.5997	88.2529	1.6727e-01	1.9002e+00
42	TAF120048	88.3462	89.1906	88.7790	2.0018e-01	1.9002e+00
43	TAF130048	87.8353	88.5703	88.1982	1.7630e-01	1.9002e+00
44	TAF120224	88.0348	88.7700	88.4066	1.9091e-01	1.9002e+00
45	TAF130224	87.2476	88.0907	87.7597	1.7814e-01	1.9002e+00

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#	Name	Min	Max	Ave	SD	Uncert
46	EMPTY	37.7675	38.4572	38.1354	1.7990e-01	1.9010e+00
47	EMPTY	39.1464	39.6057	39.2337	1.3031e-01	1.9010e+00
48	TAI130048	88.0387	89.0882	88.6035	2.8356e-01	1.9002e+00
49	TAI130136	87.4423	88.2808	87.8809	2.0711e-01	1.9002e+00
50	TAI130224	88.3887	89.3349	88.9331	2.4561e-01	1.9002e+00
51	TAI130312	87.7551	88.5963	88.1819	1.7567e-01	1.9002e+00
52	TAR130000	86.6117	87.5561	87.1047	2.5613e-01	1.9002e+00
53	TS10000001	81.3417	81.8703	81.5681	1.3817e-01	1.9001e+00
54	TS10000002	77.3767	78.2237	77.7347	2.0786e-01	1.9000e+00
55	TSO0000001	76.9967	77.8466	77.4918	1.8423e-01	1.9000e+00
56	TSO0000002	77.4286	78.1712	77.8169	2.0041e-01	1.9000e+00
57	TAF020136	87.3184	88.0582	87.7223	1.9286e-01	1.9002e+00
58	TAF120312	87.4850	88.5359	87.9497	2.7501e-01	1.9002e+00
59	TAF130312	87.1891	87.9249	87.5068	1.8311e-01	1.9002e+00
60	EMPTY	0.5029	0.5127	0.5079	1.2041e-03	0.0000e+00
61	EMPTY	0.5225	0.5225	0.5225	0.0000e+00	0.0000e+00
62	EMPTY	0.5322	0.5371	0.5345	2.4583e-03	0.0000e+00
63	EMPTY	0.5469	0.5518	0.5501	2.3365e-03	0.0000e+00
64	EMPTY	0.3516	0.3564	0.3529	2.2146e-03	0.0000e+00
65	EMPTY	0.3711	0.3760	0.3759	6.9053e-04	0.0000e+00
66	EMPTY	0.3906	0.3955	0.3910	1.3381e-03	0.0000e+00
67	EMPTY	0.4102	0.4150	0.4109	1.8082e-03	0.0000e+00
68	EMPTY	0.4248	0.4297	0.4253	1.4797e-03	0.0000e+00
69	EMPTY	0.4395	0.4492	0.4444	1.2041e-03	0.0000e+00
70	EMPTY	0.4590	0.4639	0.4609	2.4164e-03	0.0000e+00
71	EMPTY	0.4785	0.4883	0.4836	1.3811e-03	0.0000e+00
72	EMPTY	0.4980	0.5029	0.4983	1.1714e-03	0.0000e+00
73	EMPTY	0.5176	0.5225	0.5193	2.3675e-03	0.0000e+00
74	EMPTY	0.5322	0.5371	0.5367	1.3381e-03	0.0000e+00
75	EMPTY	0.5518	0.5566	0.5537	2.4164e-03	0.0000e+00
76	EMPTY	0.5664	0.5859	0.5706	2.9611e-03	0.0000e+00
77	EMPTY	0.5859	0.5908	0.5900	1.8082e-03	0.0000e+00
78	EMPTY	0.6104	0.6152	0.6113	1.9730e-03	0.0000e+00
79	EMPTY	0.6348	0.6396	0.6350	9.6655e-04	0.0000e+00
80	PAN020136	0.3288	0.5577	0.4570	7.1371e-02	8.7000e-01
81	PAN050136	-0.4088	0.0490	-0.1952	1.4127e-01	1.6800e+00
82	PAN070136	-0.1464	0.1588	0.0397	6.7469e-02	8.7000e-01
83	PAN080136	-0.2690	0.1879	-0.0364	9.9188e-02	8.7000e-01
84	PAN090136	-0.0952	0.2100	0.0620	7.1321e-02	8.7000e-01
85	PAN100136	-0.1070	0.1219	-0.0154	6.3552e-02	8.7000e-01
86	PAN105136	-0.0241	0.3573	0.0949	6.5685e-02	8.7000e-01
87	PAN110136	0.1080	0.3368	0.1888	6.7908e-02	8.7000e-01
88	PAN115136	0.0228	0.3280	0.1571	7.7927e-02	8.7000e-01
89	PAN120136	0.2251	0.0038	-0.0618	6.1674e-02	8.7000e-01
90	PAN125136	0.1898	0.0390	-0.0968	7.1120e-02	8.7000e-01
91	PAN130136	0.0374	0.3426	0.2083	6.2725e-02	8.7000e-01
92	PAN120048	0.7335	-0.5046	-0.6419	5.5575e-02	8.7000e-01
93	PAN130048	0.0031	0.3083	0.1664	7.2313e-02	8.7000e-01
94	PAN120224	0.1205	0.4257	0.2182	7.5574e-02	8.7000e-01
95	PAN130224	-0.1539	0.0750	-0.0303	7.6899e-02	8.7000e-01
96	PAN120312	-0.2301	0.1513	-0.0455	7.7207e-02	8.7000e-01
97	PAN130312	-0.1568	0.1484	0.0019	8.6975e-02	8.7000e-01
98	PAB000136	25.0410	25.1784	25.1051	3.8131e-02	5.8139e-01
99	PAB100136	25.0419	25.1792	25.1014	4.0576e-02	5.8138e-01
100	PAB125136	24.9319	25.1150	25.0170	4.3388e-02	5.8136e-01

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	24.6766	24.9207	24.9159	3.4527e-02	7.5258e-01
102	PRV000001	24.7118	24.8339	24.7338	4.7374e-02	7.5254e-01
103	PSR000001	24.8880	25.0100	24.9319	5.9189e-02	7.5259e-01
104	PPH000001	-0.1215	0.1532	0.0012	6.3024e-02	5.0000e-01
105	PAN000136	0.7574	1.2151	0.7849	1.0982e-01	4.9200e+00
106	PPH000002	0.0277	0.0445	0.0425	5.5081e-03	2.0000e-01
107	EMPTY	-0.0049	0.0049	0.0002	3.9410e-03	0.0000e+00
108	EMPTY	-10.0000	-1.1914	-7.8971	2.4597e+00	0.0000e+00
109	EMPTY	0.0000	0.0049	0.0009	1.8950e-03	0.0000e+00
110	EMPTY	-10.0000	-10.0000	-10.0000	0.0000e+00	0.0000e+00
111	EMPTY	0.0000	0.0000	0.0000	0.0000e+00	0.0000e+00
112	VPW000001	-0.2554	0.1352	0.0337	1.0617e-01	8.1000e-01
113	VPW000002	-0.0376	0.1577	0.0679	9.8332e-02	8.1000e-01
114	VPW000003	-0.0864	0.3042	0.0073	1.1995e-01	8.1000e-01
115	VPW000004	-0.2479	0.1427	-0.0174	1.1632e-01	8.1000e-01
116	VPW000005	-0.1577	0.2329	0.0102	1.0447e-01	8.1000e-01
117	VPW000006	-0.0413	0.3493	0.1032	9.5112e-02	8.1000e-01
118	IPW000001	-1.8397	2.0650	0.2298	1.0737e+00	8.1000e+00
119	IPW000002	-2.6642	3.1896	0.1066	1.5813e+00	8.1000e+00
120	IPW000003	-1.5750	2.3250	0.6090	1.2232e+00	8.1000e+00
121	IPW000004	-0.2441	1.2207	0.2246	2.9528e-01	2.0000e+00
122	IPW000005	-0.4601	0.5164	0.1551	3.0894e-01	2.0000e+00
123	IPW000006	-0.5540	0.9109	0.0319	3.4173e-01	2.0000e+00
124	EMPTY	-0.0244	-0.0098	-0.0192	3.6124e-03	0.0000e+00
125	EMPTY	-0.0146	-0.0098	-0.0125	2.4484e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0159	3.0897e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0147	3.3439e-03	0.0000e+00
128	IHT000001	-0.3456	0.0451	-0.0213	1.0145e-01	4.1000e+00
129	IHT000002	-0.0113	0.1840	0.0161	6.8459e-02	4.1000e+00
130	IHT000003	-0.1991	0.1916	0.0041	5.5243e-02	4.1000e+00
131	IHT000004	-0.0901	0.1052	0.0075	9.8648e-02	4.1000e+00
132	IHT000005	-0.0789	0.3117	0.0188	1.0625e-01	4.1000e+00
133	IHT000006	-0.1239	0.2667	0.0206	1.1027e-01	4.1000e+00
134	IHT000007	-0.0150	0.1803	0.0201	7.5798e-02	4.1000e+00
135	IHT000008	-0.0413	0.1540	0.0290	9.4702e-02	4.1000e+00
136	IHT000009	-0.1916	0.1991	0.0116	8.7880e-02	4.1000e+00
137	IHT000010	-0.0488	0.3418	0.0019	9.5112e-02	4.1000e+00
138	IHT000011	-0.0338	0.1615	0.0092	8.1729e-02	4.1000e+00
139	IHT000012	-0.2817	0.3042	0.0074	1.1327e-01	4.1000e+00
140	IHT000013	-0.3531	0.0376	-0.0288	1.0145e-01	4.1000e+00
141	IHT000014	-0.2592	0.3268	0.0611	1.0992e-01	4.1000e+00
142	IHT000015	-0.2028	0.1878	0.0081	6.6498e-02	4.1000e+00
143	IHT000016	-0.0638	0.1315	0.0221	9.7935e-02	4.1000e+00
144	IHT000017	-0.4582	0.5183	0.0261	2.8246e-01	4.1000e+00
145	IHT000018	-0.3117	0.2742	-0.0110	1.1306e-01	4.1000e+00
146	IHT000019	-0.3718	-0.1765	-0.2703	9.8569e-02	4.1000e+00
147	IHT000020	-0.1052	0.2855	0.0198	1.0992e-01	4.1000e+00
148	IHT000021	-0.0638	0.1315	0.0299	9.8569e-02	4.1000e+00
149	IHT000022	-0.0939	0.1014	-0.0236	9.4702e-02	4.1000e+00
150	IHT000023	-0.2066	0.1840	0.0161	1.0447e-01	4.1000e+00
151	IHT000024	-0.1578	0.2329	0.1157	1.0440e-01	4.1000e+00
152	IHT000025	-0.2442	0.1465	-0.0449	9.2456e-02	4.1000e+00
153	IHT000026	-0.1803	0.2104	0.0033	8.2864e-02	4.1000e+00
154	IHT000027	-0.0113	0.1840	0.0395	8.6541e-02	4.1000e+00
155	IHT000028	-0.1803	0.2103	-0.0045	9.8648e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT000029	-0.0413	0.3493	0.0095	9.5112e-02	4.1000e+00
157	IHT000030	-0.1878	0.3981	0.0192	1.0741e-01	4.1000e+00
158	IHT000031	-0.2442	0.3418	0.0410	1.1975e-01	4.1000e+00
159	IHT000032	-0.0451	0.3455	0.0135	9.8648e-02	4.1000e+00
160	IHT000033	-0.0376	0.1578	0.0171	8.8585e-02	4.1000e+00
161	IHT000034	-0.1765	0.2141	0.0110	1.0410e-01	4.1000e+00
162	IHT000035	-0.0263	0.1690	0.0050	7.2330e-02	4.1000e+00
163	IHT000036	-0.0939	0.2967	0.0115	1.1306e-01	4.1000e+00

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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	TRF000001	85.7628	86.6039	86.1706	2.2429e-01	1.9002e+00
3	TRF000001	85.6903	86.2179	86.0153	1.3936e-01	1.9002e+00
4	TRF000001	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	TAF020136	78.3850	79.4453	78.9874	2.4646e-01	1.9001e+00
7	TAF050136	86.0744	86.8104	86.4115	1.6140e-01	1.9002e+00
8	TAF070136	86.0320	86.7705	86.3865	1.9965e-01	1.9002e+00
9	TAF080136	85.8770	86.6130	86.2517	1.6576e-01	1.9002e+00
10	TAF090136	86.0647	86.8013	86.4102	1.8129e-01	1.9002e+00
11	TAF100136	85.8750	86.6119	86.3087	1.6681e-01	1.9002e+00
12	TAF105136	86.3726	87.3205	86.8529	2.1601e-01	1.9002e+00
13	TAF110136	86.2972	87.0324	86.6550	1.5994e-01	1.9002e+00
14	TAF115136	85.8938	86.9469	86.5635	2.3273e-01	1.9002e+00
15	TAF120136	86.0112	86.7483	86.4198	1.6951e-01	1.9002e+00
16	TAF125136	86.1269	86.9681	86.5979	1.8655e-01	1.9002e+00
17	TAF130136	85.8258	86.5601	86.2332	1.7104e-01	1.9002e+00
18	TAF130048	74.2830	75.4508	74.8689	3.3234e-01	1.9000e+00
19	TAF130048	85.8196	86.4505	86.1107	1.5256e-01	1.9002e+00
20	TAF130224	85.7298	86.4671	86.1011	1.6196e-01	1.9002e+00
21	TAF130224	85.6802	86.6214	86.2023	2.1842e-01	1.9002e+00
22	TAF130312	85.5054	86.4538	86.0575	1.8007e-01	1.9002e+00
23	TAF130312	85.6414	86.3783	86.0457	1.5225e-01	1.9002e+00
24	TAF130000	86.0524	86.8962	86.5123	2.0184e-01	1.9002e+00
25	TAF130000	86.0258	86.7653	86.4188	1.6398e-01	1.9002e+00
26	TAF130000	86.3384	87.0737	86.6702	1.6749e-01	1.9002e+00
27	TAF130000	86.1002	86.7321	86.4709	1.3149e-01	1.9002e+00
28	TAF125000	87.6157	102.2428	94.1363	3.3296e+00	1.9004e+00
29	TAF130000	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	TAF130048	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	TAF130224	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

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#	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	TAF130048	86.0531	87.1054	86.6214	2.8565e-01	1.9002e+00
49	TAF130136	85.4206	86.2618	85.9464	1.7622e-01	1.9002e+00
50	TAF130224	86.5243	87.6836	87.1233	3.0802e-01	1.9002e+00
51	TAF130312	85.8274	86.7756	86.3710	2.0562e-01	1.9002e+00
52	TAF130000	84.6105	85.4497	85.0313	2.2536e-01	1.9002e+00
53	TSR000001	77.8866	78.3372	78.0321	1.4753e-01	1.9000e+00
54	TSR000002	74.1044	75.1641	74.6432	2.7797e-01	1.9000e+00
55	TSR000001	72.3392	73.1929	72.7913	1.8107e-01	1.9000e+00
56	TSR000002	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	PAN130048	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	PAN130224	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	PAN130312	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	PAN000136	43.5240	44.0275	43.7785	9.5288e-02	5.9024e-01
99	PAN100136	27.6422	27.8711	27.7576	5.5674e-02	5.8414e-01
100	PAN125136	22.2353	22.4184	22.3022	4.0534e-02	5.8267e-01

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#	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	PPH000001	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	PPH000002	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	2.8858e-01	2.0001e+00
122	IPW000005	-3.9904	-3.0139	-3.5900	3.0785e-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	INT000001	-0.2066	0.1841	-0.0308	7.1136e-02	4.1000e+00
129	INT000002	-0.2329	0.1577	-0.0337	7.3716e-02	4.1000e+00
130	INT000003	-0.0864	0.1089	-0.0473	7.8918e-02	4.1000e+00
131	INT000004	-0.2028	0.1878	-0.0348	9.6735e-02	4.1000e+00
132	INT000005	-0.2066	0.1841	-0.0659	1.0470e-01	4.1000e+00
133	INT000006	-0.0601	0.3305	0.0297	1.0595e-01	4.1000e+00
134	INT000007	-0.0601	0.1352	-0.0366	6.4113e-02	4.1000e+00
135	INT000008	-0.3531	0.0376	-0.1109	9.3043e-02	4.1000e+00
136	INT000009	-0.2216	0.1690	-0.0380	9.1779e-02	4.1000e+00
137	INT000010	-0.1427	0.0526	-0.0841	9.0412e-02	4.1000e+00
138	INT000011	-0.1089	0.0864	-0.0699	7.8918e-02	4.1000e+00
139	INT000012	-0.3606	0.0301	-0.0949	1.0259e-01	4.1000e+00
140	INT000013	-0.0563	0.3343	0.0804	9.8648e-02	4.1000e+00
141	INT000014	-0.1953	0.1953	-0.0273	8.8321e-02	4.1000e+00
142	INT000015	-0.0488	0.1465	-0.0293	5.9189e-02	4.1000e+00
143	INT000016	-0.1352	0.0601	-0.0532	9.7377e-02	4.1000e+00
144	INT000017	-0.3530	0.4282	0.0532	2.8683e-01	4.1000e+00
145	INT000018	-0.1728	0.2178	-0.0165	9.6655e-02	4.1000e+00
146	INT000019	0.0413	0.6273	0.3108	1.1084e-01	4.1000e+00
147	INT000020	-0.2517	0.1390	-0.0368	9.0412e-02	4.1000e+00
148	INT000021	-0.0714	0.3193	0.0341	1.0595e-01	4.1000e+00
149	INT000022	0.0037	0.3944	0.1483	1.0297e-01	4.1000e+00
150	INT000023	-0.0300	0.3606	0.1653	1.1838e-01	4.1000e+00
151	INT000024	-0.4770	-0.0864	-0.3364	1.1864e-01	4.1000e+00
152	INT000025	0.2028	0.5935	0.3122	1.1942e-01	4.1000e+00
153	INT000026	-0.1690	0.2216	0.0419	9.5357e-02	4.1000e+00
154	INT000027	-0.2291	0.3568	0.0131	1.0106e-01	4.1000e+00
155	INT000028	-0.2479	0.1427	0.0021	1.3111e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.2788	0.1127	-0.0436	9.6655e-02	4.1000e+00
157	INT000030	-0.2183	0.3756	0.0162	1.0705e-01	4.1000e+00
158	INT000031	-0.3418	0.2441	-0.0645	1.1897e-01	4.1000e+00
159	INT000032	-0.2938	0.0977	-0.0469	9.5112e-02	4.1000e+00
160	INT000033	-0.0977	0.0976	-0.0469	8.6541e-02	4.1000e+00
161	INT000034	-0.2329	0.1577	-0.0688	9.9512e-02	4.1000e+00
162	INT000035	-0.1277	0.2629	0.0285	1.0440e-01	4.1000e+00
163	INT000036	-0.1878	0.2028	-0.0823	1.1306e-01	4.1000e+00

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Velocity 1 - 23.9560 (ft/sec) (+/- 1.6954 ft)
 Velocity 2 - 13.4143 (ft/sec) (+/- 1.7033 ft)
 Pressure drop - 18.0638 (psi)
 Test in - 266.9377 (deg F) Test out - 232.7036 (deg F)
 Phi inner - 0.0047 (kbtu/hr-ft2) (+/- 129.8679 ft)
 Phi outer - 0.0075 (kbtu/hr-ft2) (+/- 122.7575 ft)
 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	TNP000001	72.8399	73.4806	73.2073	1.9791e-01	1.9000e+00
1	TNP000002	73.1115	73.5362	73.4173	1.2254e-01	1.9000e+00
2	TNP000001	86.2884	87.0235	86.6702	1.9661e-01	1.9002e+00
3	TNP000001	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	TNO020136	78.5976	79.6571	79.1950	2.3425e-01	1.9001e+00
7	TNO050136	86.3885	87.2282	86.8253	1.7534e-01	1.9002e+00
8	TNO070136	86.2435	87.2983	86.7621	2.1403e-01	1.9002e+00
9	TNO080136	86.0860	86.9250	86.5150	2.0316e-01	1.9002e+00
10	TNO090136	86.3794	87.2204	86.8378	1.8228e-01	1.9002e+00
11	TNO100136	86.2947	87.1355	86.7494	1.5823e-01	1.9002e+00
12	TNO105136	86.7934	87.7411	87.2863	2.3236e-01	1.9002e+00
13	TNO110136	86.7139	87.3434	87.0134	1.6969e-01	1.9002e+00
14	TNO115136	86.2093	87.2624	86.9253	2.3489e-01	1.9002e+00
15	TNO120136	86.4315	87.1678	86.8316	1.8898e-01	1.9002e+00
16	TNO125136	86.4412	87.3873	87.0047	2.0908e-01	1.9002e+00
17	TNO130136	86.3452	86.9742	86.6228	1.3509e-01	1.9002e+00
18	TNO130048	74.1769	75.4508	74.8859	2.8555e-01	1.9000e+00
19	TNO130048	86.0291	86.6605	86.4208	1.5324e-01	1.9002e+00
20	TNO120224	86.1501	86.8872	86.5546	1.6107e-01	1.9002e+00
21	TNO130224	86.0544	87.0377	86.5814	2.2137e-01	1.9002e+00
22	TNO120312	86.1372	86.7697	86.5165	1.7298e-01	1.9002e+00
23	TNO130312	86.0608	86.7974	86.4399	1.5332e-01	1.9002e+00
24	TNT020000	86.4741	87.5282	86.9676	2.2279e-01	1.9002e+00
25	TNT070000	86.4490	87.0823	86.8334	1.5635e-01	1.9002e+00
26	TNT100000	86.6525	87.4926	87.1269	1.8756e-01	1.9002e+00
27	TNT120000	86.6251	87.2567	86.8781	1.6878e-01	1.9002e+00
28	TNT125000	83.0205	284.2243	157.2827	6.3845e+01	1.9051e+00
29	TNT130000	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	TAP050136	86.6269	87.2579	86.9347	1.7343e-01	1.9002e+00
32	TAP070136	80.0081	80.9576	80.5569	2.2916e-01	1.9001e+00
33	TAP080136	86.3652	87.1005	86.7690	1.7304e-01	1.9002e+00
34	TAP090136	73.2083	74.3770	73.8333	3.0910e-01	1.9000e+00
35	TAP100136	86.3138	87.1570	86.7524	1.6816e-01	1.9002e+00
36	TAP105136	86.4369	87.2754	86.8565	2.2823e-01	1.9002e+00
37	TAP110136	86.3211	86.9523	86.6160	1.7354e-01	1.9002e+00
38	TAP115136	86.7645	87.5002	87.2102	2.8946e-01	1.9002e+00
39	TAP120136	86.4979	87.1283	86.8350	1.2771e-01	1.9002e+00
40	TAP125136	86.4468	87.4914	86.9331	2.6748e-01	1.9002e+00
41	TAP130136	86.4990	87.0258	86.7774	1.4376e-01	1.9002e+00
42	TAP120048	86.8387	87.4736	87.1691	1.9864e-01	1.9002e+00
43	TAP130048	86.3120	87.0487	86.6995	1.6936e-01	1.9002e+00
44	TAP120224	86.5200	87.4661	86.9116	2.0802e-01	1.9002e+00
45	TAP130224	85.8726	86.6108	86.3534	1.7853e-01	1.9002e+00

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#	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	8.9110e-02	1.9018e+00
48	TAP130048	86.5785	87.5248	87.0626	2.5382e-01	1.9002e+00
49	TAP130136	85.8397	86.7857	86.4241	1.8145e-01	1.9002e+00
50	TAP130224	87.0514	88.1041	87.5950	2.6164e-01	1.9002e+00
51	TAP130312	86.3537	87.1957	86.8887	1.9883e-01	1.9002e+00
52	TAP130000	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	TNO000001	72.2319	72.8722	72.5521	1.6131e-01	1.9000e+00
56	TNO000002	80.7627	81.6087	81.3251	2.8531e-01	1.9001e+00
57	TAP020136	85.8031	86.5435	86.2805	1.4888e-01	1.9002e+00
58	TAP120312	86.0875	87.1385	86.6464	2.8113e-01	1.9002e+00
59	TAP130312	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	6.9853e-04	0.0000e+00
62	EMPTY	0.5225	0.5371	0.5293	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	2.3088e-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	6.9853e-04	0.0000e+00
73	EMPTY	0.5078	0.5127	0.5079	6.9853e-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	6.9853e-04	0.0000e+00
76	EMPTY	0.5566	0.5664	0.5568	1.8111e-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	0.8575e-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	0.8698e-01
83	PAN080136	32.9650	33.4227	33.1893	1.2561e-01	0.7395e-01
84	PAN090136	30.6174	31.0752	30.8433	1.0335e-01	0.7341e-01
85	PAN100136	37.8581	38.6210	38.2533	1.5312e-01	0.7524e-01
86	PAN105136	20.1453	20.5268	20.3421	9.6370e-02	0.7149e-01
87	PAN110136	25.8894	26.2709	26.1290	8.7207e-02	0.7245e-01
88	PAN115136	28.0696	28.6800	28.3519	9.5329e-02	0.7288e-01
89	PAN120136	31.2461	31.7039	31.5010	1.0410e-01	0.7356e-01
90	PAN125136	18.6869	19.1447	18.9677	9.9224e-02	0.7129e-01
91	PAN130136	8.9551	9.4892	9.2222	1.0369e-01	0.7031e-01
92	PAN120048	22.9896	23.5236	23.2734	1.0459e-01	0.7194e-01
93	PAN130048	48.1651	48.8518	48.4947	1.5215e-01	0.7841e-01
94	PAN120224	51.0349	51.5689	51.2714	1.5431e-01	0.7939e-01
95	PAN130224	36.6961	37.2302	36.9784	1.3979e-01	0.7490e-01
96	PAN120312	25.7186	26.1763	25.9551	1.1964e-01	0.7242e-01
97	PAN130312	44.7905	45.4009	45.1323	1.6402e-01	0.7729e-01
98	PAN000136	39.5414	39.8619	39.7117	7.3429e-02	5.8844e-01
99	PAN100136	26.4063	26.5436	26.4731	4.5505e-02	5.8376e-01
100	PAN125136	21.8691	22.0064	21.9314	4.3141e-02	5.8259e-01

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#	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	PSB000001	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	PAM000136	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	INT000001	-0.2066	0.1841	-0.0269	8.6810e-02	4.1000e+00
129	INT000002	-0.2329	0.1577	-0.0571	9.0412e-02	4.1000e+00
130	INT000003	-0.4770	0.1089	-0.0434	1.0654e-01	4.1000e+00
131	INT000004	-0.2028	0.1878	-0.0387	9.1354e-02	4.1000e+00
132	INT000005	-0.2066	0.1841	-0.0542	9.8963e-02	4.1000e+00
133	INT000006	-0.2554	0.1352	0.0180	1.1161e-01	4.1000e+00
134	INT000007	-0.2554	0.1352	-0.0484	7.2866e-02	4.1000e+00
135	INT000008	-0.3531	0.0376	-0.1109	9.3043e-02	4.1000e+00
136	INT000009	-0.2216	0.1690	-0.0458	9.8648e-02	4.1000e+00
137	INT000010	-0.1427	0.2479	-0.0490	1.0617e-01	4.1000e+00
138	INT000011	-0.1089	0.0864	-0.0660	8.1729e-02	4.1000e+00
139	INT000012	-0.3606	0.0301	-0.0910	1.0358e-01	4.1000e+00
140	INT000013	-0.0563	0.3343	0.0687	1.0259e-01	4.1000e+00
141	INT000014	-0.3906	0.5859	-0.0078	1.4743e-01	4.1000e+00
142	INT000015	-0.4395	0.1465	-0.0488	9.6655e-02	4.1000e+00
143	INT000016	-0.1352	0.0601	-0.0727	9.2034e-02	4.1000e+00
144	INT000017	-0.5484	0.6235	0.0571	2.9594e-01	4.1000e+00
145	INT000018	-0.1728	0.2178	-0.0283	1.1712e-01	4.1000e+00
146	INT000019	0.2366	0.4319	0.2835	8.4262e-02	4.1000e+00
147	INT000020	-0.2517	0.1390	-0.0759	9.0412e-02	4.1000e+00
148	INT000021	-0.0714	0.1240	0.0263	9.8648e-02	4.1000e+00
149	INT000022	0.0037	0.1991	0.1366	9.2034e-02	4.1000e+00
150	INT000023	-0.0300	0.1653	0.1301	7.5798e-02	4.1000e+00
151	INT000024	-0.4770	0.1089	-0.3207	1.0440e-01	4.1000e+00
152	INT000025	0.2028	0.3981	0.3239	9.5764e-02	4.1000e+00
153	INT000026	-0.1690	0.0263	0.0028	6.4113e-02	4.1000e+00
154	INT000027	-0.2291	0.1615	0.0014	9.4125e-02	4.1000e+00
155	INT000028	-0.2479	0.1427	-0.0213	1.0705e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	INT000029	-0.2780	0.1127	-0.0553	8.8321e-02	4.1000e+00
157	INT000030	-0.2103	0.3756	0.0123	1.1844e-01	4.1000e+00
158	INT000031	-0.3418	0.2441	-0.0527	1.3005e-01	4.1000e+00
159	INT000032	-0.2930	0.0977	-0.0078	1.0595e-01	4.1000e+00
160	INT000033	-0.0977	0.0976	-0.0313	9.3461e-02	4.1000e+00
161	INT000034	-0.2329	0.1577	-0.0219	8.6810e-02	4.1000e+00
162	INT000035	-0.1277	0.2629	0.0403	1.1844e-01	4.1000e+00
163	INT000036	-0.1878	0.2828	-0.0745	1.0507e-01	4.1000e+00

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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	TFH000001	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	TRO020136	78.8095	79.8688	79.3583	2.7966e-01	1.9001e+00
7	TRO050136	87.1209	87.8546	87.4417	1.4902e-01	1.9002e+00
8	TRO070136	87.0872	87.8250	87.4563	2.0782e-01	1.9002e+00
9	TRO080136	86.8181	87.4480	87.1436	1.7109e-01	1.9002e+00
10	TRO090136	87.1137	87.8486	87.4560	1.9647e-01	1.9002e+00
11	TRO100136	87.0296	87.6604	87.3220	1.5933e-01	1.9002e+00
12	TRO105136	87.4251	88.2664	87.9235	2.3830e-01	1.9002e+00
13	TRO110136	87.3411	87.8653	87.6070	1.5000e-01	1.9002e+00
14	TRO115136	86.9462	88.1031	87.5667	2.3585e-01	1.9002e+00
15	TRO120136	86.9572	87.7982	87.3547	1.7290e-01	1.9002e+00
16	TRO125136	87.2807	88.1202	87.7278	2.2012e-01	1.9002e+00
17	TRO130136	86.9670	87.5951	87.2296	1.7570e-01	1.9002e+00
18	TRO130048	74.7074	75.8748	75.2360	3.4659e-01	1.9000e+00
19	TRO130048	86.7628	87.3932	87.0342	1.5470e-01	1.9002e+00
20	TRO120224	86.8859	87.5170	87.1448	1.5062e-01	1.9002e+00
21	TRO130224	86.8246	87.6619	87.2663	2.1332e-01	1.9002e+00
22	TRO120312	86.6639	87.5059	87.1333	1.7820e-01	1.9002e+00
23	TRO130312	86.6908	87.4259	87.0122	1.5527e-01	1.9002e+00
24	TRO200000	87.2121	87.9494	87.6357	2.0576e-01	1.9002e+00
25	TRO700000	87.0840	87.7165	87.4319	1.7479e-01	1.9002e+00
26	TRO100000	87.2810	88.1207	87.7197	2.0401e-01	1.9002e+00
27	TRO120000	87.1504	87.8859	87.4888	1.5062e-01	1.9002e+00
28	TRO125000	79.1375	80.0856	79.6204	2.2641e-01	1.9001e+00
29	TRO130000	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	TAP050136	87.1510	87.9902	87.6021	1.9336e-01	1.9002e+00
32	TAP070136	80.4298	81.3773	80.9706	1.9840e-01	1.9001e+00
33	TAP080136	87.0962	87.7255	87.4047	1.6328e-01	1.9002e+00
34	TAP090136	73.6334	74.8009	74.2130	2.5925e-01	1.9000e+00
35	TAP100136	87.0514	87.7885	87.3653	1.7219e-01	1.9002e+00
36	TAP105136	86.9593	88.1083	87.4545	2.3670e-01	1.9002e+00
37	TAP110136	86.8452	87.5796	87.2123	1.6875e-01	1.9002e+00
38	TAP115136	87.2891	88.2334	87.7277	2.2509e-01	1.9002e+00
39	TAP120136	87.2309	87.8609	87.4644	1.3822e-01	1.9002e+00
40	TAP125136	86.9692	88.1183	87.6477	2.3601e-01	1.9002e+00
41	TAP130136	87.0238	87.5494	87.3202	1.5415e-01	1.9002e+00
42	TAP120048	87.3681	88.3183	87.8435	2.4984e-01	1.9002e+00
43	TAP130048	87.0471	87.6779	87.3395	1.7553e-01	1.9002e+00
44	TAP120224	87.1500	87.8851	87.5469	1.5921e-01	1.9002e+00
45	TAP130224	86.6116	87.2438	86.9424	1.6357e-01	1.9002e+00

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#	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	TAP130048	86.9992	88.2600	87.6318	3.0403e-01	1.9002e+00
49	TAP130136	86.5737	87.4136	86.9833	2.0021e-01	1.9002e+00
50	TAP130224	87.6838	88.6310	88.2036	2.8476e-01	1.9002e+00
51	TAP130312	86.9851	87.8270	87.3829	2.0641e-01	1.9002e+00
52	TAP130000	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	TAP020136	86.4388	87.2831	86.8249	1.8423e-01	1.9002e+00
58	TAP120312	86.7173	87.6629	87.2154	2.5434e-01	1.9002e+00
59	TAP130312	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	35.4421	36.1745	35.8205	1.7655e-01	7.5533e-01
102	PRV0000001	18.8641	18.9861	18.8860	4.7374e-02	7.5148e-01
103	PSR0000001	19.6691	19.7911	19.7545	5.6508e-02	7.5162e-01
104	PFM0000001	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	PFM0000002	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	VPW0000001	-1.0479	-0.6573	-0.8331	9.8648e-02	8.1002e-01
113	VPW0000002	-1.0404	-0.6498	-0.7748	1.0259e-01	8.1001e-01
114	VPW0000003	-0.9240	-0.5333	-0.6701	9.8648e-02	8.1001e-01
115	VPW0000004	-0.8752	-0.4845	-0.6486	9.9512e-02	8.1001e-01
116	VPW0000005	-1.6639	-1.0780	-1.3670	1.1995e-01	8.1004e-01
117	VPW0000006	-1.6489	-1.2583	-1.5005	1.1545e-01	8.1005e-01
118	IPW0000001	-11.6766	-7.7719	-9.6852	1.2151e+00	8.1004e+00
119	IPW0000002	-12.2331	-8.3306	-10.2819	1.3075e+00	8.1004e+00
120	IPW0000003	-12.8625	-8.9625	-11.2245	1.2680e+00	8.1005e+00
121	IPW0000004	-2.7419	-1.7654	-2.0193	2.6543e-01	2.0001e+00
122	IPW0000005	-3.9904	-3.0139	-3.5607	3.2175e-01	2.0002e+00
123	IPW0000006	-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	IHT0000001	-0.2066	0.1841	-0.0152	7.3716e-02	4.1000e+00
129	IHT0000002	-0.2329	0.1577	-0.0493	9.1779e-02	4.1000e+00
130	IHT0000003	-0.0864	0.1089	-0.0278	9.0412e-02	4.1000e+00
131	IHT0000004	-0.2028	0.1878	-0.0270	1.0625e-01	4.1000e+00
132	IHT0000005	-0.2066	0.1841	-0.0425	1.0705e-01	4.1000e+00
133	IHT0000006	-0.0601	0.3305	0.0454	1.0595e-01	4.1000e+00
134	IHT0000007	-0.0601	0.1352	-0.0171	8.1729e-02	4.1000e+00
135	IHT0000008	-0.1578	0.0376	-0.0679	9.8332e-02	4.1000e+00
136	IHT0000009	-0.2216	0.1690	-0.0224	9.2456e-02	4.1000e+00
137	IHT0000010	-0.3380	0.0526	-0.0959	1.0106e-01	4.1000e+00
138	IHT0000011	-0.3042	0.0864	-0.0894	7.1136e-02	4.1000e+00
139	IHT0000012	-0.3606	0.0301	-0.1028	1.1464e-01	4.1000e+00
140	IHT0000013	-0.0563	0.1390	0.0765	9.2034e-02	4.1000e+00
141	IHT0000014	-0.1953	0.1953	-0.0234	7.5283e-02	4.1000e+00
142	IHT0000015	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
143	IHT0000016	-0.1352	0.0601	-0.0571	9.6655e-02	4.1000e+00
144	IHT0000017	-0.3530	0.6235	0.0571	2.8523e-01	4.1000e+00
145	IHT0000018	-0.1728	0.4131	0.0069	1.2378e-01	4.1000e+00
146	IHT0000019	0.0413	0.4319	0.2796	1.0654e-01	4.1000e+00
147	IHT0000020	-0.2517	0.1390	-0.0642	6.7888e-02	4.1000e+00
148	IHT0000021	-0.0714	0.1240	0.0068	9.6655e-02	4.1000e+00
149	IHT0000022	0.0037	0.1991	0.1287	9.4702e-02	4.1000e+00
150	IHT0000023	-0.2254	0.3606	0.1496	1.0320e-01	4.1000e+00
151	IHT0000024	-0.4770	-0.2817	-0.3793	9.8648e-02	4.1000e+00
152	IHT0000025	0.2028	0.3981	0.2849	9.7377e-02	4.1000e+00
153	IHT0000026	-0.1690	0.2216	-0.0050	9.1354e-02	4.1000e+00
154	IHT0000027	-0.0338	0.1615	0.0131	8.4262e-02	4.1000e+00
155	IHT0000028	-0.2479	0.1427	0.0021	1.0470e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2780	0.1127	-0.0475	9.4125e-02	4.1000e+00
157	IHT0000030	-0.2103	0.3756	0.0280	1.0654e-01	4.1000e+00
158	IHT0000031	-0.3418	0.2441	-0.0566	1.2608e-01	4.1000e+00
159	IHT0000032	-0.2930	0.2930	-0.0273	1.1679e-01	4.1000e+00
160	IHT0000033	-0.0977	0.2930	-0.0274	1.0259e-01	4.1000e+00
161	IHT0000034	-0.2329	0.1577	-0.0219	1.1049e-01	4.1000e+00
162	IHT0000035	-0.1277	0.2629	0.0481	1.2633e-01	4.1000e+00
163	IHT0000036	-0.3831	0.2028	-0.0316	1.1838e-01	4.1000e+00

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	TRF0000001	72.8399	73.4806	73.2414	1.6508e-01	1.9000e+00
1	TRF0000002	73.1115	73.5362	73.3918	1.3862e-01	1.9000e+00
2	TFM0000001	87.0221	87.6526	87.3415	1.9545e-01	1.9002e+00
3	TIN0000001	86.5335	87.3745	86.9918	1.6566e-01	1.9002e+00
4	TRV0000001	86.5949	87.2245	86.9516	1.5717e-01	1.9002e+00
5	TSR0000001	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	TSI0000001	78.8625	79.4960	79.2259	1.4499e-01	1.9001e+00
54	TSI0000002	74.5283	75.6936	75.2018	2.7961e-01	1.9000e+00
55	TSO0000001	72.5529	73.4057	73.0219	1.7770e-01	1.9000e+00
56	TSO0000002	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

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#	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

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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)
 Tsat in - 229.0394 (deg F) Tsat 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 - 12.9610 (ft) L outer - 12.8070 (ft) A flow - 0.0150 (ft2)

#	Name	Min	Max	Ave	SD	Uncert
0	TRF0000001	72.8399	73.6941	73.2970	1.8309e-01	1.9000e+00
1	TRF0000002	73.1115	73.7485	73.4216	1.3019e-01	1.9000e+00
2	TFH0000001	86.9179	87.7576	87.3124	1.9836e-01	1.9002e+00
3	TIN0000001	86.6377	87.2698	86.9751	1.4892e-01	1.9002e+00
4	TRV0000001	86.8041	87.5387	87.0858	1.6732e-01	1.9002e+00
5	TSR0000001	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

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#	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	TSI0000001	79.1779	79.9192	79.5887	1.7433e-01	1.9001e+00
54	TSI0000002	75.1629	76.1163	75.5700	2.5612e-01	1.9000e+00
55	TSO0000001	72.8725	73.7259	73.3633	2.3401e-01	1.9000e+00
56	TSO0000002	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	17.3350	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	28.8503	29.5827	29.1872	1.5512e-01	7.5354e-01
102	PRV0000001	18.9861	19.2303	19.0960	4.4460e-02	7.5152e-01
103	PSR0000001	19.6691	19.7911	19.7301	6.1655e-02	7.5162e-01
104	PFM0000001	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	PFM0000002	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	VPW0000001	-0.8526	-0.6573	-0.8174	7.5798e-02	8.1001e-01
113	VPW0000002	-0.8451	-0.6498	-0.7709	9.5765e-02	8.1001e-01
114	VPW0000003	-0.9240	-0.3380	-0.6622	1.0885e-01	8.1001e-01
115	VPW0000004	-0.8752	-0.2892	-0.6408	1.3087e-01	8.1001e-01
116	VPW0000005	-1.4686	-1.2733	-1.3397	9.3461e-02	8.1004e-01
117	VPW0000006	-1.6489	-1.2583	-1.4692	1.1049e-01	8.1005e-01
118	IPW0000001	-11.6766	-7.7719	-9.7633	1.2775e+00	8.1004e+00
119	IPW0000002	-12.2331	-8.3306	-10.2428	1.4479e+00	8.1004e+00
120	IPW0000003	-12.8625	-8.9625	-11.0295	1.2085e+00	8.1005e+00
121	IPW0000004	-2.2536	-1.2771	-1.9997	2.6543e-01	2.0001e+00
122	IPW0000005	-3.9904	-3.0139	-3.5119	2.8741e-01	2.0002e+00
123	IPW0000006	-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	IHT0000001	-0.2066	0.1841	-0.0425	8.2393e-02	4.1000e+00
129	IHT0000002	-0.2329	0.1577	-0.0298	6.7888e-02	4.1000e+00
130	IHT0000003	-0.0864	0.1089	-0.0239	9.2034e-02	4.1000e+00
131	IHT0000004	-0.2028	0.1878	-0.0427	1.0942e-01	4.1000e+00
132	IHT0000005	-0.2066	0.1841	-0.0542	9.8963e-02	4.1000e+00
133	IHT0000006	-0.2554	0.3305	0.0415	1.1327e-01	4.1000e+00
134	IHT0000007	-0.0601	0.1352	-0.0445	5.3525e-02	4.1000e+00
135	IHT0000008	-0.1578	0.0376	-0.0914	9.3461e-02	4.1000e+00
136	IHT0000009	-0.2216	0.1690	-0.0263	1.0440e-01	4.1000e+00
137	IHT0000010	-0.3380	0.0526	-0.1037	8.8233e-02	4.1000e+00
138	IHT0000011	-0.3042	0.0864	-0.0738	8.5454e-02	4.1000e+00
139	IHT0000012	-0.3606	0.0301	-0.1028	1.0014e-01	4.1000e+00
140	IHT0000013	-0.0563	0.1390	0.0999	7.8918e-02	4.1000e+00
141	IHT0000014	-0.1953	0.1953	-0.0078	8.7880e-02	4.1000e+00
142	IHT0000015	-0.0488	0.1465	0.0019	8.6541e-02	4.1000e+00
143	IHT0000016	-0.1352	0.2554	-0.0297	1.0595e-01	4.1000e+00
144	IHT0000017	-0.3530	0.6235	0.0766	2.7621e-01	4.1000e+00
145	IHT0000018	-0.1728	0.4131	0.0381	1.2378e-01	4.1000e+00
146	IHT0000019	0.0413	0.4319	0.2640	7.9017e-02	4.1000e+00
147	IHT0000020	-0.2517	0.1390	-0.0642	7.8523e-02	4.1000e+00
148	IHT0000021	-0.0714	0.1240	0.0185	9.8332e-02	4.1000e+00
149	IHT0000022	-0.1916	0.1991	0.1092	1.0595e-01	4.1000e+00
150	IHT0000023	-0.0300	0.3606	0.1457	7.1136e-02	4.1000e+00
151	IHT0000024	-0.4770	-0.0864	-0.3520	1.0992e-01	4.1000e+00
152	IHT0000025	0.2028	0.3981	0.2888	9.7935e-02	4.1000e+00
153	IHT0000026	-0.1690	0.2216	-0.0050	9.9512e-02	4.1000e+00
154	IHT0000027	-0.2291	0.1615	-0.0182	6.6498e-02	4.1000e+00
155	IHT0000028	-0.2479	0.1427	0.0099	1.0014e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2780	0.1127	-0.0319	9.5112e-02	4.1000e+00
157	IHT0000030	-0.0150	0.1803	0.0475	9.2034e-02	4.1000e+00
158	IHT0000031	-0.3418	0.2441	-0.0449	1.1327e-01	4.1000e+00
159	IHT0000032	-0.0976	0.0977	-0.0078	9.8332e-02	4.1000e+00
160	IHT0000033	-0.2930	0.2930	-0.0274	1.0992e-01	4.1000e+00
161	IHT0000034	-0.2329	0.1577	-0.0180	9.8648e-02	4.1000e+00
162	IHT0000035	-0.1277	0.2629	0.0520	8.6810e-02	4.1000e+00
163	IHT0000036	-0.1878	0.5935	-0.0355	1.3833e-01	4.1000e+00

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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

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#	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	25.9206	26.4089	26.2087	1.1766e-01	7.5286e-01
102	PRV000001	19.1082	19.2303	19.1107	1.7263e-02	7.5152e-01
103	PSR000001	19.6691	19.7911	19.7252	6.1457e-02	7.5162e-01
104	PFM000001	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	PFM000002	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	VPW000001	-1.0479	-0.6573	-0.7979	9.6976e-02	8.1001e-01
113	VPW000002	-0.8451	-0.6498	-0.7513	9.8569e-02	8.1001e-01
114	VPW000003	-0.9240	-0.5333	-0.6896	9.6655e-02	8.1001e-01
115	VPW000004	-0.8752	-0.4845	-0.6408	1.1161e-01	8.1001e-01
116	VPW000005	-1.4686	-1.0780	-1.3397	1.0885e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4341	1.2001e-01	8.1005e-01
118	IPW000001	-11.6766	-7.7719	-9.4509	1.3088e+00	8.1003e+00
119	IPW000002	-12.2331	-8.3306	-10.2038	1.3633e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-11.5365	1.3325e+00	8.1005e+00
121	IPW000004	-2.7419	-1.2771	-1.9997	2.8317e-01	2.0001e+00
122	IPW000005	-4.4786	-2.5257	-3.5607	3.7741e-01	2.0002e+00
123	IPW000006	-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	IHT000001	-0.2066	0.1841	-0.0230	7.2866e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0454	6.7888e-02	4.1000e+00
130	IHT000003	-0.2817	0.3042	-0.0200	1.0885e-01	4.1000e+00
131	IHT000004	-0.2028	0.1878	-0.0192	1.1443e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0347	1.0168e-01	4.1000e+00
133	IHT000006	-0.2554	0.3305	0.0532	1.1223e-01	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0171	9.0756e-02	4.1000e+00
135	IHT000008	-0.1578	0.0376	-0.0718	9.7935e-02	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0224	7.3716e-02	4.1000e+00
137	IHT000010	-0.1427	0.4432	-0.0724	1.1679e-01	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0542	8.8585e-02	4.1000e+00
139	IHT000012	-0.3606	0.0301	-0.0871	1.1161e-01	4.1000e+00
140	IHT000013	-0.2517	0.3343	0.0921	1.0106e-01	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0117	8.2864e-02	4.1000e+00
142	IHT000015	-0.0488	0.1465	0.0176	9.3461e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0219	1.0507e-01	4.1000e+00
144	IHT000017	-0.3530	0.8188	0.1157	2.5875e-01	4.1000e+00
145	IHT000018	-0.1728	0.2178	0.0264	9.2456e-02	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2522	7.7324e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0603	8.3612e-02	4.1000e+00
148	IHT000021	-0.0714	0.1240	-0.0049	9.3461e-02	4.1000e+00
149	IHT000022	-0.1916	0.1991	0.0897	1.0559e-01	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1379	7.9017e-02	4.1000e+00
151	IHT000024	-0.4770	-0.2817	-0.3559	9.5765e-02	4.1000e+00
152	IHT000025	0.0075	0.3981	0.2731	1.0259e-01	4.1000e+00
153	IHT000026	-0.1690	0.2216	-0.0011	7.9017e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	-0.0221	4.6855e-02	4.1000e+00
155	IHT000028	-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

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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	TRF0000001	73.0535	73.6941	73.2841	1.6619e-01	1.9000e+00
1	TRF0000002	73.3239	73.7485	73.4598	1.1950e-01	1.9000e+00
2	TFM0000001	87.1277	88.0713	87.6395	1.9839e-01	1.9002e+00
3	TIN0000001	87.0586	87.5848	87.2779	1.4241e-01	1.9002e+00
4	TRV0000001	87.0134	87.8513	87.3410	1.8273e-01	1.9002e+00
5	TSR0000001	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	TRO200000	87.3177	88.2651	87.8609	2.3047e-01	1.9002e+00
25	TRO700000	87.4004	88.0333	87.7168	1.5804e-01	1.9002e+00
26	TRO100000	87.5954	88.3300	87.9691	1.6302e-01	1.9002e+00
27	TRO120000	87.4651	87.9914	87.7384	1.4403e-01	1.9002e+00
28	TRO125000	74.8237	75.8817	75.4535	2.0022e-01	1.9000e+00
29	TRO130000	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

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#	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	TSI0000001	79.2841	79.9192	79.6140	1.3941e-01	1.9001e+00
54	TSI0000002	74.9514	76.1163	75.4981	2.7075e-01	1.9000e+00
55	TSO0000001	72.9793	73.8326	73.4827	1.8413e-01	1.9000e+00
56	TSO0000002	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	-0.0661	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 - 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	TRP000001	73.0535	73.6941	73.3482	1.9240e-01	1.9000e+00
1	TRP000002	73.3239	73.7485	73.5065	1.2876e-01	1.9000e+00
2	TRP000001	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	88.7574	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

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#	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	TR130000	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	1.3811e-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	6.6606e-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

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#	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	2.8717e-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	-0.0122	2.7256e-03	0.0000e+00
126	EMPTY	-0.0195	-0.0098	-0.0166	2.7982e-03	0.0000e+00
127	EMPTY	-0.0244	-0.0098	-0.0159	3.5307e-03	0.0000e+00
128	IHT0000001	-0.2066	0.1841	-0.0309	9.0412e-02	4.1000e+00
129	IHT0000002	-0.2329	0.1577	-0.0571	8.1347e-02	4.1000e+00
130	IHT0000003	-0.0864	0.1089	-0.0434	8.1729e-02	4.1000e+00
131	IHT0000004	-0.2028	0.1878	-0.0153	1.0410e-01	4.1000e+00
132	IHT0000005	-0.2066	-0.0113	-0.0620	8.6541e-02	4.1000e+00
133	IHT0000006	-0.0601	0.1352	0.0219	9.7377e-02	4.1000e+00
134	IHT0000007	-0.2554	0.1352	-0.0573	6.7888e-02	4.1000e+00
135	IHT0000008	-0.1578	0.2329	-0.0796	1.0440e-01	4.1000e+00
136	IHT0000009	-0.2216	0.1690	-0.0224	8.3612e-02	4.1000e+00
137	IHT0000010	-0.1427	0.0526	-0.0724	9.4702e-02	4.1000e+00
138	IHT0000011	-0.1089	0.0864	-0.0542	8.8585e-02	4.1000e+00
139	IHT0000012	-0.3606	0.2254	-0.0871	1.1838e-01	4.1000e+00
140	IHT0000013	-0.0563	0.3343	0.0882	9.5112e-02	4.1000e+00
141	IHT0000014	-0.1953	0.1953	-0.0156	9.5357e-02	4.1000e+00
142	IHT0000015	-0.2442	0.1465	-0.0176	8.2393e-02	4.1000e+00
143	IHT0000016	-0.3305	0.0601	-0.0493	1.0559e-01	4.1000e+00
144	IHT0000017	-0.3530	0.6235	0.0610	2.5767e-01	4.1000e+00
145	IHT0000018	-0.1728	0.2178	-0.0165	1.1161e-01	4.1000e+00
146	IHT0000019	0.0413	0.4319	0.2757	8.8233e-02	4.1000e+00
147	IHT0000020	-0.2517	0.3343	-0.0525	8.3612e-02	4.1000e+00
148	IHT0000021	-0.0714	0.3193	0.0263	1.0625e-01	4.1000e+00
149	IHT0000022	0.0037	0.3944	0.1209	1.0440e-01	4.1000e+00
150	IHT0000023	-0.0300	0.3606	0.1379	9.6735e-02	4.1000e+00
151	IHT0000024	-0.4770	-0.0864	-0.3168	9.4125e-02	4.1000e+00
152	IHT0000025	0.2028	0.5935	0.2692	1.0145e-01	4.1000e+00
153	IHT0000026	-0.1690	0.2216	0.0028	9.3710e-02	4.1000e+00
154	IHT0000027	-0.2291	0.1615	-0.0221	8.2864e-02	4.1000e+00
155	IHT0000028	-0.0526	0.3381	0.0256	1.1161e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0826	0.3080	-0.0162	1.0145e-01	4.1000e+00
157	IHT0000030	-0.0150	0.3756	0.0670	1.1223e-01	4.1000e+00
158	IHT0000031	-0.1465	0.2441	-0.0215	1.1679e-01	4.1000e+00
159	IHT0000032	-0.0976	0.2930	0.0156	1.2534e-01	4.1000e+00
160	IHT0000033	-0.0977	0.4883	0.0234	1.3021e-01	4.1000e+00
161	IHT0000034	-0.2329	0.1577	-0.0180	8.1347e-02	4.1000e+00
162	IHT0000035	-0.1277	0.2629	0.0676	1.2478e-01	4.1000e+00
163	IHT0000036	-0.1878	0.2028	-0.0394	1.0106e-01	4.1000e+00

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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	TRF0000001	73.2671	73.9075	73.5617	1.8244e-01	1.9000e+00
1	TRF0000002	73.5362	73.9608	73.7060	1.3562e-01	1.9000e+00
2	TFH0000001	88.3864	89.2251	88.8078	1.7910e-01	1.9002e+00
3	TIN0000001	88.0052	88.7415	88.3775	1.6213e-01	1.9002e+00
4	TRV0000001	87.9562	88.7955	88.3358	1.8183e-01	1.9002e+00
5	TSR0000001	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	88.5221	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	TAP050136	88.5118	89.2467	88.8875	1.7348e-01	1.9002e+00
32	TAP070136	82.4253	83.4771	82.8355	2.2597e-01	1.9001e+00
33	TAP080136	88.3503	89.0816	88.7240	1.6243e-01	1.9002e+00
34	TAP090136	75.2247	76.2850	75.8159	2.5069e-01	1.9000e+00
35	TAP100136	88.3142	89.0506	88.6614	1.8435e-01	1.9002e+00
36	TAP105136	88.2109	89.2557	88.7317	2.5578e-01	1.9002e+00
37	TAP110136	88.2061	88.9368	88.5020	1.5067e-01	1.9002e+00
38	TAP115136	88.6514	89.7000	89.0939	2.0777e-01	1.9002e+00
39	TAP120136	88.3821	89.1170	88.8078	1.3325e-01	1.9002e+00
40	TAP125136	88.2210	89.3690	88.8375	2.7412e-01	1.9002e+00
41	TAP130136	88.3864	88.9124	88.6200	1.2074e-01	1.9002e+00
42	TAP120048	88.6349	89.5839	89.1473	2.2455e-01	1.9002e+00
43	TAP130048	88.4109	88.9369	88.6654	1.2932e-01	1.9002e+00
44	TAP120224	88.5128	89.3526	88.8551	1.8926e-01	1.9002e+00
45	TAP130224	87.9818	88.5085	88.2240	1.2266e-01	1.9002e+00

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#	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	TAF130048	88.4692	89.5189	89.0467	3.1105e-01	1.9002e+00
49	TAF130136	87.9357	88.7746	88.3325	1.7744e-01	1.9002e+00
50	TAF130224	88.7353	89.8920	89.4024	3.0236e-01	1.9003e+00
51	TAF130312	88.2475	88.9828	88.6400	1.9202e-01	1.9002e+00
52	TAF130000	86.9165	87.8597	87.3458	2.2903e-01	1.9002e+00
53	TSI0000001	80.1281	80.8665	80.4812	1.5180e-01	1.9001e+00
54	TSI0000002	75.4815	76.5400	76.0006	2.3148e-01	1.9000e+00
55	TSO0000001	73.5125	74.4713	73.8982	2.0643e-01	1.9000e+00
56	TSO0000002	83.1907	84.0345	83.6271	2.0980e-01	1.9001e+00
57	TAP020136	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	2.4642e-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	0.5958	0.5004	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	8.7007e-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

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#	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	PFH000001	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	PFH000002	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	8.1803e+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	9.3161e-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

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Velocity 1 - 10.0581 (ft/sec) (+/- 2.3285 %)
 Velocity 2 - 9.4686 (ft/sec) (+/- 1.7970 %)
 Pressure drop - -0.5202 (psi)
 Tsat in - 225.6528 (deg F) Tsat 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	TRP000001	73.2671	73.9075	73.6087	1.8299e-01	1.9000e+00
1	TRP000002	73.5362	73.9608	73.7273	1.5010e-01	1.9000e+00
2	TRP000001	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	88.0157	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	1.6910e-01	1.9002e+00
36	TAF105136	87.5864	88.7371	88.1827	2.8622e-01	1.9002e+00
37	TAF110136	87.5796	88.2095	87.9045	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

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#	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	TAF130048	87.6303	88.9953	88.4050	2.9908e-01	1.9002e+00
49	TAF130136	87.3080	88.1474	87.7220	2.0806e-01	1.9002e+00
50	TAF130224	88.3151	89.4722	88.7715	3.0168e-01	1.9002e+00
51	TAF130312	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	TSI0000001	80.2343	80.8682	80.6288	1.6635e-01	1.9001e+00
54	TSI0000002	75.6936	76.7524	76.2121	2.6388e-01	1.9000e+00
55	TSO0000001	73.6191	74.3652	74.0518	1.9307e-01	1.9000e+00
56	TSO0000002	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	PAB0000136	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

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#	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	-0.3390	-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	0.1603	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

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Velocity 1 = 7.9277 (ft/sec) (+/- 3.1096 %)
 Velocity 2 = 7.6570 (ft/sec) (+/- 1.9545 %)
 Pressure drop = -2.1902 (psi)
 Tsat in = 220.4532 (deg F) Tsat 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	1.2196e-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

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#	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

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#	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

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Velocity 1 - 6.0208 (ft/sec) (+/- 4.8755 %)
 Velocity 2 - 5.8685 (ft/sec) (+/- 2.4106 %)
 Pressure drop - -3.4250 (psi)
 Tsat in - 216.5005 (deg F) Tsat 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	TAFO50136	87.1551	87.9932	87.5610	1.9596e-01	1.9002e+00
32	TAFO70136	82.3216	83.0587	82.6124	1.7838e-01	1.9001e+00
33	TAFO80136	87.1027	87.7309	87.3865	1.5710e-01	1.9002e+00
34	TAFO90136	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

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#	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	TSO0000001	73.8320	74.7912	74.3053	1.9981e-01	1.9000e+00
56	TSO0000002	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	16.0737	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

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#	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	PFH000001	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	PFH000002	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	-1.6489	-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

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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	TRT070000	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	86.8997	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

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#	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	TSI0000001	80.4454	81.0787	80.7411	1.6792e-01	1.9001e+00
54	TSI0000002	75.9055	76.8588	76.4051	2.3318e-01	1.9000e+00
55	TSO0000001	73.8320	74.6846	74.2967	1.9471e-01	1.9000e+00
56	TSO0000002	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-01	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

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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	TRF000001	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	TAFO50136	87.2587	88.0985	87.6976	1.8918e-01	1.9002e+00
32	TAFO70136	81.9023	82.9545	82.4349	2.2532e-01	1.9001e+00
33	TAFO80136	86.9971	87.7299	87.4103	1.7516e-01	1.9002e+00
34	TAFO90136	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

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#	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	TSO0000001	73.9381	74.6846	74.3329	2.0685e-01	1.9000e+00
56	TSO0000002	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	0.5153	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	8.7010e-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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN0000001	14.3239	14.4460	14.4435	1.7263e-02	7.5087e-01
102	PRV0000001	19.2303	19.2303	19.2303	1.9267e-06	7.5154e-01
103	PSR0000001	19.6691	19.6691	19.6691	0.0000e+00	7.5161e-01
104	PFM0000001	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	PFM0000002	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	VPW0000001	-1.0479	-0.4620	-0.7276	1.1679e-01	8.1001e-01
113	VPW0000002	-1.0404	-0.6498	-0.7709	1.0358e-01	8.1001e-01
114	VPW0000003	-0.7286	-0.5333	-0.6505	9.6655e-02	8.1001e-01
115	VPW0000004	-0.8752	-0.4845	-0.6369	1.0654e-01	8.1001e-01
116	VPW0000005	-1.4686	-1.0780	-1.2616	1.2104e-01	8.1004e-01
117	VPW0000006	-1.6489	-1.2583	-1.4341	1.2633e-01	8.1005e-01
118	IPW0000001	-11.6766	-7.7719	-9.3337	1.1833e+00	8.1003e+00
119	IPW0000002	-12.2331	-6.3793	-9.3843	1.5374e+00	8.1003e+00
120	IPW0000003	-12.8625	-8.9625	-10.9125	1.1819e+00	8.1005e+00
121	IPW0000004	-2.2536	-1.2771	-1.8826	2.5266e-01	2.0001e+00
122	IPW0000005	-3.9904	-3.0139	-3.4142	3.2250e-01	2.0002e+00
123	IPW0000006	-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	IHT0000001	-0.2066	0.1841	-0.0113	6.8345e-02	4.1000e+00
129	IHT0000002	-0.2329	0.1577	-0.0376	6.8345e-02	4.1000e+00
130	IHT0000003	-0.0864	0.1089	-0.0044	9.7377e-02	4.1000e+00
131	IHT0000004	-0.2028	0.1878	0.0120	9.0412e-02	4.1000e+00
132	IHT0000005	-0.2066	0.3794	-0.0191	1.3063e-01	4.1000e+00
133	IHT0000006	-0.2554	0.1352	0.0610	1.0358e-01	4.1000e+00
134	IHT0000007	-0.2554	0.3305	0.0024	1.0763e-01	4.1000e+00
135	IHT0000008	-0.1578	0.2329	-0.0718	1.0559e-01	4.1000e+00
136	IHT0000009	-0.2216	0.1690	-0.0068	9.8648e-02	4.1000e+00
137	IHT0000010	-0.1427	0.2479	-0.0646	1.0440e-01	4.1000e+00
138	IHT0000011	-0.3042	0.0864	-0.0542	9.6976e-02	4.1000e+00
139	IHT0000012	-0.1653	0.0301	-0.0676	9.8648e-02	4.1000e+00
140	IHT0000013	-0.0563	0.3343	0.0882	9.5112e-02	4.1000e+00
141	IHT0000014	-0.1953	0.1953	0.0039	9.2456e-02	4.1000e+00
142	IHT0000015	-0.0488	0.1465	-0.0059	8.1729e-02	4.1000e+00
143	IHT0000016	-0.3305	0.2554	-0.0063	1.0885e-01	4.1000e+00
144	IHT0000017	-0.3530	0.6235	0.1430	2.7960e-01	4.1000e+00
145	IHT0000018	-0.1728	0.2178	0.0421	1.0625e-01	4.1000e+00
146	IHT0000019	0.0413	0.4319	0.2132	1.0168e-01	4.1000e+00
147	IHT0000020	-0.2517	0.1390	-0.0564	8.8233e-02	4.1000e+00
148	IHT0000021	-0.0714	0.3193	0.0380	1.0559e-01	4.1000e+00
149	IHT0000022	0.0037	0.3944	0.1287	1.0259e-01	4.1000e+00
150	IHT0000023	-0.0300	0.3606	0.1614	1.0052e-01	4.1000e+00
151	IHT0000024	-0.4770	-0.0864	-0.2622	1.0625e-01	4.1000e+00
152	IHT0000025	0.0075	0.3981	0.2419	8.8233e-02	4.1000e+00
153	IHT0000026	-0.1690	0.2216	0.0185	9.6332e-02	4.1000e+00
154	IHT0000027	-0.0338	0.1615	0.0092	8.1729e-02	4.1000e+00
155	IHT0000028	-0.2479	0.1427	0.0138	1.1578e-01	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.0826	0.1127	-0.0162	9.3461e-02	4.1000e+00
157	IHT0000030	-0.2103	0.3756	0.0397	1.0470e-01	4.1000e+00
158	IHT0000031	-0.1465	0.2441	-0.0059	1.1189e-01	4.1000e+00
159	IHT0000032	-0.0976	0.2930	0.0195	1.0440e-01	4.1000e+00
160	IHT0000033	-0.0977	0.2930	0.0000	1.0625e-01	4.1000e+00
161	IHT0000034	-0.2329	0.1577	-0.0102	9.6735e-02	4.1000e+00
162	IHT0000035	-0.1277	0.2629	0.0676	6.8345e-02	4.1000e+00
163	IHT0000036	-0.1878	0.0075	-0.0394	8.4262e-02	4.1000e+00

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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	TFH000001	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	TNO020136	80.9266	81.9846	81.5447	2.0083e-01	1.9001e+00
7	TNO050136	87.2293	88.0684	87.5902	1.8606e-01	1.9002e+00
8	TNO070136	87.1920	87.9292	87.6050	1.8413e-01	1.9002e+00
9	TNO080136	86.9268	87.6622	87.2424	1.7850e-01	1.9002e+00
10	TNO090136	87.2214	88.0612	87.6913	2.0245e-01	1.9002e+00
11	TNO100136	87.0317	87.7677	87.4480	1.6842e-01	1.9002e+00
12	TNO105136	87.5305	88.4772	88.0313	2.2237e-01	1.9002e+00
13	TNO110136	87.4512	88.0803	87.7943	1.4981e-01	1.9002e+00
14	TNO115136	87.2621	88.2089	87.7756	2.1521e-01	1.9002e+00
15	TNO120136	87.1684	87.9043	87.5388	2.1142e-01	1.9002e+00
16	TNO125136	87.4922	88.2271	87.8414	1.7789e-01	1.9002e+00
17	TNO130136	86.9778	87.6058	87.2825	1.3954e-01	1.9002e+00
18	TNO120048	77.0399	78.4172	77.7182	2.9018e-01	1.9000e+00
19	TNO130048	86.7668	87.3972	87.0649	1.4293e-01	1.9002e+00
20	TNO120224	86.9922	87.7287	87.2871	1.5323e-01	1.9002e+00
21	TNO130224	86.8321	87.7724	87.2542	1.8978e-01	1.9002e+00
22	TNO120312	86.9797	87.7167	87.3126	1.7058e-01	1.9002e+00
23	TNO130312	86.7979	87.4292	87.0716	1.5888e-01	1.9002e+00
24	TNO200000	87.3167	88.2646	87.8227	2.2919e-01	1.9002e+00
25	TNO700000	87.1873	87.9261	87.6304	1.6370e-01	1.9002e+00
26	TNT100000	87.4931	88.3333	87.9425	2.0434e-01	1.9002e+00
27	TNT120000	87.3617	87.9924	87.6313	1.4735e-01	1.9002e+00
28	TNT125000	76.1983	77.0441	76.6501	1.8959e-01	1.9000e+00
29	TNT130000	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	1.3255e-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

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#	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	PIN0000001	14.2019	14.4460	14.3239	2.4662e-02	7.5085e-01
102	PRV0000001	19.2303	19.3524	19.2327	1.7263e-02	7.5154e-01
103	PSR0000001	19.6691	19.7911	19.7277	6.1605e-02	7.5162e-01
104	PFH0000001	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	PFH0000002	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	VPW0000001	-0.8526	-0.6573	-0.8018	8.6541e-02	8.1001e-01
113	VPW0000002	-1.0404	-0.6498	-0.7670	1.0440e-01	8.1001e-01
114	VPW0000003	-0.9240	-0.3380	-0.6544	1.3022e-01	8.1001e-01
115	VPW0000004	-0.8752	-0.4845	-0.6369	9.8963e-02	8.1001e-01
116	VPW0000005	-1.6639	-1.0780	-1.3084	1.2901e-01	8.1004e-01
117	VPW0000006	-1.6489	-1.0630	-1.3950	1.0625e-01	8.1004e-01
118	IPW0000001	-11.6766	-7.7719	-9.4899	1.0902e+00	8.1003e+00
119	IPW0000002	-12.2331	-6.3793	-9.8526	1.1350e+00	8.1004e+00
120	IPW0000003	-12.8625	-7.0125	-10.9905	1.1792e+00	8.1005e+00
121	IPW0000004	-2.2536	-1.2771	-1.8337	2.4184e-01	2.0001e+00
122	IPW0000005	-4.4786	-3.0139	-3.4631	3.0941e-01	2.0002e+00
123	IPW0000006	-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	IHT0000001	-0.2066	0.1841	-0.0191	9.6332e-02	4.1000e+00
129	IHT0000002	-0.4282	0.1577	-0.0376	9.6655e-02	4.1000e+00
130	IHT0000003	-0.0864	0.1089	-0.0395	8.4262e-02	4.1000e+00
131	IHT0000004	-0.2028	0.1878	-0.0270	9.8648e-02	4.1000e+00
132	IHT0000005	-0.2066	0.1841	-0.0581	1.0106e-01	4.1000e+00
133	IHT0000006	-0.0601	0.3305	0.0571	1.0440e-01	4.1000e+00
134	IHT0000007	-0.0601	0.3305	-0.0327	7.9017e-02	4.1000e+00
135	IHT0000008	-0.1578	0.0376	-0.0718	9.7935e-02	4.1000e+00
136	IHT0000009	-0.2216	0.1690	-0.0107	7.7324e-02	4.1000e+00
137	IHT0000010	-0.3380	0.2479	-0.0724	1.0992e-01	4.1000e+00
138	IHT0000011	-0.1089	0.0864	-0.0464	9.2034e-02	4.1000e+00
139	IHT0000012	-0.1653	0.0301	-0.0832	9.7377e-02	4.1000e+00
140	IHT0000013	-0.0563	0.3343	0.0804	9.8648e-02	4.1000e+00
141	IHT0000014	-0.1953	0.1953	0.0117	9.1779e-02	4.1000e+00
142	IHT0000015	-0.0488	0.1465	-0.0137	7.5798e-02	4.1000e+00
143	IHT0000016	-0.3305	0.0601	-0.0219	1.0507e-01	4.1000e+00
144	IHT0000017	-0.3530	0.6235	0.1274	2.7680e-01	4.1000e+00
145	IHT0000018	-0.1728	0.2178	0.0303	1.0410e-01	4.1000e+00
146	IHT0000019	0.0413	0.4319	0.2093	1.0447e-01	4.1000e+00
147	IHT0000020	-0.4470	0.3343	-0.0485	1.0410e-01	4.1000e+00
148	IHT0000021	-0.0714	0.5146	0.0185	1.2608e-01	4.1000e+00
149	IHT0000022	0.0037	0.1991	0.1092	9.8332e-02	4.1000e+00
150	IHT0000023	-0.0300	0.3606	0.1496	9.5357e-02	4.1000e+00
151	IHT0000024	-0.4770	0.1089	-0.2504	1.0705e-01	4.1000e+00
152	IHT0000025	0.2028	0.3981	0.2614	9.0412e-02	4.1000e+00
153	IHT0000026	-0.1690	0.2216	0.0067	9.8648e-02	4.1000e+00
154	IHT0000027	-0.0338	0.1615	0.0092	8.1729e-02	4.1000e+00
155	IHT0000028	-0.0526	0.1427	0.0216	9.5765e-02	4.1000e+00

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#	Name	Min	Max	Ave	SD	Uncert
156	IHT0000029	-0.2780	0.3080	-0.0240	1.0625e-01	4.1000e+00
157	IHT0000030	-0.0150	0.1803	0.0631	9.6655e-02	4.1000e+00
158	IHT0000031	-0.1465	0.2441	-0.0059	1.2503e-01	4.1000e+00
159	IHT0000032	-0.0976	0.4883	-0.0039	1.2627e-01	4.1000e+00
160	IHT0000033	-0.0977	0.2930	0.0000	1.1334e-01	4.1000e+00
161	IHT0000034	-0.2329	0.3531	0.0054	1.2027e-01	4.1000e+00
162	IHT0000035	-0.1277	0.4582	0.0637	1.1497e-01	4.1000e+00
163	IHT0000036	-0.1878	0.2028	-0.0550	1.0014e-01	4.1000e+00

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Velocity 1 = 25.0271 (ft/sec) (+/- 1.6916 %)
 Velocity 2 = 13.4153 (ft/sec) (+/- 1.7033 %)
 Pressure drop = 20.0215 (psi)
 Tsat in = 269.9811 (deg F) Tsat 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	TRF000001	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	TNO020136	81.1387	82.0906	81.5679	2.2039e-01	1.9001e+00
7	TNO050136	87.3332	87.9635	87.6636	1.4985e-01	1.9002e+00
8	TNO070136	87.0864	88.0347	87.5437	2.3866e-01	1.9002e+00
9	TNO080136	87.0324	87.7653	87.4243	1.6775e-01	1.9002e+00
10	TNO090136	87.2208	87.9563	87.6474	1.9238e-01	1.9002e+00
11	TNO100136	87.3461	87.8726	87.5676	1.4432e-01	1.9002e+00
12	TNO105136	87.6360	88.6873	88.1343	2.0900e-01	1.9002e+00
13	TNO110136	87.3457	88.2884	87.8841	1.6932e-01	1.9002e+00
14	TNO115136	87.3677	88.2089	87.8281	2.1747e-01	1.9002e+00
15	TNO120136	87.0634	88.0098	87.6585	1.8705e-01	1.9002e+00
16	TNO125136	87.3883	88.4375	87.9065	1.9014e-01	1.9002e+00
17	TNO130136	87.0792	87.8127	87.5005	1.7977e-01	1.9002e+00
18	TNO120048	77.1464	78.3115	77.8950	2.7982e-01	1.9000e+00
19	TNO130048	86.8705	87.6064	87.2262	1.5143e-01	1.9002e+00
20	TNO120224	86.9922	87.7287	87.3312	1.5802e-01	1.9002e+00
21	TNO130224	86.9346	88.0853	87.4314	2.0547e-01	1.9002e+00
22	TNO120312	86.9799	87.8215	87.3904	1.8807e-01	1.9002e+00
23	TNO130312	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	1.8552e-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

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#	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	TAF130048	87.1054	88.3665	87.9482	3.0194e-01	1.9002e+00
49	TAF130136	86.6813	87.5217	87.1417	2.1275e-01	1.9002e+00
50	TAF130224	87.6836	88.8412	88.3127	3.3510e-01	1.9002e+00
51	TAF130312	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

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#	Name	Min	Max	Ave	SD	Uncert
101	PIN000001	41.4235	42.0339	41.7019	1.5990e-01	7.5721e-01
102	PRV000001	19.1082	19.2303	19.2278	1.7263e-02	7.5154e-01
103	PSR000001	19.6691	19.7911	19.7667	4.9324e-02	7.5163e-01
104	PFH000001	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	PFH000002	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	1.0753e+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	VPW000001	-1.0479	-0.6573	-0.7901	1.3014e-01	8.1001e-01
113	VPW000002	-0.2451	-0.4545	-0.7396	1.0595e-01	8.1001e-01
114	VPW000003	-0.7286	-0.3380	-0.6427	1.0559e-01	8.1001e-01
115	VPW000004	-0.8752	-0.2892	-0.6134	1.1578e-01	8.1001e-01
116	VPW000005	-1.4625	-1.0780	-1.3006	1.0447e-01	8.1004e-01
117	VPW000006	-1.6489	-1.2583	-1.4419	1.0741e-01	8.1005e-01
118	IPW000001	-11.6766	-5.8195	-9.3337	1.3082e+00	8.1003e+00
119	IPW000002	-12.2331	-6.3793	-9.5794	1.2316e+00	8.1004e+00
120	IPW000003	-12.8625	-8.9625	-10.9905	1.0393e+00	8.1005e+00
121	IPW000004	-2.2536	-1.2771	-1.8923	2.5743e-01	2.0001e+00
122	IPW000005	-3.9904	-2.5257	-3.4240	3.9897e-01	2.0002e+00
123	IPW000006	-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	IHT000001	-0.2066	0.1841	-0.0191	8.7880e-02	4.1000e+00
129	IHT000002	-0.2329	0.1577	-0.0376	6.8345e-02	4.1000e+00
130	IHT000003	-0.0864	0.1089	-0.0395	8.4262e-02	4.1000e+00
131	IHT000004	-0.2028	0.3831	-0.0192	1.2104e-01	4.1000e+00
132	IHT000005	-0.2066	0.1841	-0.0425	9.1354e-02	4.1000e+00
133	IHT000006	-0.0601	0.3305	0.0454	1.0595e-01	4.1000e+00
134	IHT000007	-0.2554	0.1352	-0.0210	8.8233e-02	4.1000e+00
135	IHT000008	-0.3531	0.0376	-0.0796	1.0440e-01	4.1000e+00
136	IHT000009	-0.2216	0.1690	-0.0185	7.8523e-02	4.1000e+00
137	IHT000010	-0.1427	0.0526	-0.0646	9.6655e-02	4.1000e+00
138	IHT000011	-0.1089	0.0864	-0.0581	8.6541e-02	4.1000e+00
139	IHT000012	-0.1653	0.0301	-0.1028	9.2034e-02	4.1000e+00
140	IHT000013	-0.0563	0.1190	0.0530	9.7935e-02	4.1000e+00
141	IHT000014	-0.1953	0.1953	-0.0117	6.1257e-02	4.1000e+00
142	IHT000015	-0.2442	0.1465	-0.0293	7.1136e-02	4.1000e+00
143	IHT000016	-0.1352	0.2554	-0.0454	1.0595e-01	4.1000e+00
144	IHT000017	-0.3530	0.6235	0.0923	2.7063e-01	4.1000e+00
145	IHT000018	-0.3681	0.2178	-0.0048	1.1168e-01	4.1000e+00
146	IHT000019	0.0413	0.4319	0.2054	9.1354e-02	4.1000e+00
147	IHT000020	-0.2517	0.1390	-0.0525	8.3612e-02	4.1000e+00
148	IHT000021	-0.0714	0.3193	0.0576	1.0145e-01	4.1000e+00
149	IHT000022	0.0037	0.1991	0.1287	9.4702e-02	4.1000e+00
150	IHT000023	-0.0300	0.3606	0.1535	9.1779e-02	4.1000e+00
151	IHT000024	-0.4770	-0.0864	-0.2817	7.8918e-02	4.1000e+00
152	IHT000025	0.0075	0.3981	0.2458	9.0756e-02	4.1000e+00
153	IHT000026	-0.1690	0.2216	0.0263	3.9459e-02	4.1000e+00
154	IHT000027	-0.0338	0.1615	0.0248	9.0412e-02	4.1000e+00
155	IHT000028	-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	9.8563e-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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