

H₂O

Working with Ice – Water – Steam
&
The Things You May Need to Know

SECTION 1 Vapor Pressure of H₂O

4 Pages

A table of the Vapor Pressure of H₂O (Ice & Water), tabulated from -98 °C thru +100 °C.

This section also provides some useful constants regarding H₂O for use in general calculations.

Metric & IP units are provided.

Acknowledgement: “Handbook of Physics & Chemistry” published by The Chemical Rubber Publishing Co. – Cleveland, Ohio

SECTION 2 Saturation Properties for H₂O

9 Pages

This is an extensive table of the Saturated Steam Properties which covers a range from 32.018 °F thru 705.1 °F. The table provides all of the thermodynamic properties necessary for accurate calculations in and around the Saturated H₂O region of the PH diagram.

This section also provides other important information regarding H₂O.

IP units are provided.

Acknowledgement: Lemmon, E.W., Huber, M.L., McLinden, M.O. NIST Standard Reference Database 23: Reference Fluid Thermodynamic and Transport Properties - REFPROP, Version 9.0, National Institute of Standards and Technology, Standard Reference Data Program, Gaithersburg, 2010.

SECTION 3 Superheated H₂O (Steam) and its Properties

11 Pages

This is an extensive table of the Superheated Steam Properties which covers a range from 1 psia thru 3,200 psia. The table provides all of the thermodynamic properties necessary for accurate calculations in the Superheated Steam region of the PH diagram.

IP units are provided.

Acknowledgement: “Steam Tables. Properties of Saturated and Superheated Steam” published by Combustion Engineering Inc. – Windsor, CT

Vapor Pressure of H₂O (Ice & Water) from -98 °C thru +100 °C

1 Standard Atmosphere = 760,000 Microns Hg abs or 760 mm Hg abs or 14.6959 psia

Temperature		H ₂ O Solid (Ice) Vapor Pressure Absolute			H ₂ O Liquid (Water) Vapor Pressure Absolute		
°C	°F	Microns Hg	mm Hg	Psia	Microns Hg	mm Hg	Psia
30	86.0	—	—	—	31,824	31.824	0.6154
31	87.8	—	—	—	33,695	33.695	0.6516
32	89.6	—	—	—	35,663	35.663	0.6896
33	91.4	—	—	—	37,729	37.729	0.7296
34	93.2	—	—	—	39,898	39.898	0.7715
35	95.0	—	—	—	42,175	42.175	0.8155
36	96.8	—	—	—	44,563	44.563	0.8617
37	98.6	—	—	—	47,067	47.067	0.9101
38	100.4	—	—	—	49,692	49.692	0.9609
39	102.2	—	—	—	52,442	52.442	1.0141
40	104.0	—	—	—	55,324	55.324	1.0698
41	105.8	—	—	—	58,340	58.34	1.1281
42	107.6	—	—	—	61,500	61.50	1.1892
43	109.4	—	—	—	64,800	64.80	1.2530
44	111.2	—	—	—	68,260	68.26	1.3199
45	113.0	—	—	—	71,880	71.88	1.3899
46	114.8	—	—	—	75,650	75.65	1.4628
47	116.6	—	—	—	79,600	79.60	1.5392
48	118.4	—	—	—	83,710	83.71	1.6187
49	120.2	—	—	—	88,020	88.02	1.7020
50	122.0	—	—	—	92,510	92.51	1.7888
51	123.8	—	—	—	97,200	97.20	1.8795
52	125.6	—	—	—	102,090	102.09	1.9741
53	127.4	—	—	—	107,200	107.20	2.0729
54	129.2	—	—	—	112,510	112.51	2.1756
55	131.0	—	—	—	118,040	118.04	2.2825
56	132.8	—	—	—	123,800	123.80	2.3939
57	134.6	—	—	—	129,820	129.82	2.5103
58	136.4	—	—	—	136,080	136.08	2.6313
59	138.2	—	—	—	142,600	142.60	2.7574
60	140.0	—	—	—	149,380	149.38	2.8885
61	141.8	—	—	—	156,430	156.43	3.0248
62	143.6	—	—	—	163,770	163.77	3.1668
63	145.4	—	—	—	171,380	171.38	3.3139
64	147.2	—	—	—	179,310	179.31	3.4673
65	149.0	—	—	—	187,540	187.54	3.6264
66	150.8	—	—	—	196,090	196.09	3.7917
67	152.6	—	—	—	204,960	204.96	3.9633
68	154.4	—	—	—	214,170	214.17	4.1413
69	156.2	—	—	—	223,730	223.73	4.3262
70	158.0	—	—	—	233,700	233.70	4.5190
71	159.8	—	—	—	243,900	243.90	4.7162
72	161.6	—	—	—	254,600	254.60	4.9231
73	163.4	—	—	—	265,700	265.70	5.1378
74	165.2	—	—	—	277,200	277.20	5.3601
75	167.0	—	—	—	289,100	289.10	5.5902
76	168.8	—	—	—	301,400	301.40	5.8281

Vapor Pressure of H₂O (Ice & Water) from -98 °C thru +100 °C

1 Standard Atmosphere = 760,000 Microns Hg abs or 760 mm Hg abs or 14.6959 psia

Temperature		H ₂ O Solid (Ice) Vapor Pressure Absolute			H ₂ O Liquid (Water) Vapor Pressure Absolute		
°C	°F	Microns Hg	mm Hg	Psia	Microns Hg	mm Hg	Psia
77	170.6	—	—	—	314,100	314.10	6.0737
78	172.4	—	—	—	327,300	327.30	6.3289
79	174.2	—	—	—	341,000	341.00	6.5938
80	176.0	—	—	—	355,100	355.10	6.8665
81	177.8	—	—	—	369,700	369.70	7.1488
82	179.6	—	—	—	384,900	384.90	7.4427
83	181.4	—	—	—	400,600	400.60	7.7463
84	183.2	—	—	—	416,800	416.80	8.0595
85	185.0	—	—	—	433,600	433.60	8.3844
86	186.8	—	—	—	450,900	450.90	8.7189
87	188.6	—	—	—	468,700	468.70	9.0631
88	190.4	—	—	—	487,100	487.10	9.4189
89	192.2	—	—	—	506,100	506.10	9.7863
90	194.0	—	—	—	525,760	525.76	10.1665
91	195.8	—	—	—	546,050	546.05	10.5588
92	197.6	—	—	—	566,990	566.99	10.9637
93	199.4	—	—	—	588,600	588.60	11.3816
94	201.2	—	—	—	610,900	610.90	11.8128
95	203.0	—	—	—	633,900	633.90	12.2575
96	204.8	—	—	—	657,620	657.62	12.7162
97	206.6	—	—	—	682,070	682.07	13.1890
98	208.4	—	—	—	707,270	707.27	13.6763
99	210.2	—	—	—	633,240	633.24	12.2448
100	212.0	—	—	—	760,000	760.00	14.6959

Other Useful H₂O Constants for General Calculations:

ρ for Water \approx 1,000 kg/m³ or 62.43 lb/ft³ | Cp for Water \approx 4.18 J/g °K or 1.00 BTU/lb °R
 Cp for Ice \approx 2.05 J/g °K or 0.49 BTU/lb °R | Cp for Steam \approx 2.08 J/g °K or 0.50 BTU/lb °R
 H_F (Liq to Solid) \approx 334 kJ/kg or 144 BTU/lb at 0°C/32 °F | H_V (Liq to Vap) \approx 2,256 kJ/kg or 970 BTU/lb at 100 °C/212 °F
 HV (Liq to Vap) \approx 2,500 kJ/kg or 1,075 BTU/lb at 0°C/32°F | HV (Liq to Vap) \approx 2,382 kJ/kg or 1,024 BTU/lb at 50°C/122°F

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
32.018	0.088713	0.016022	3,299.70	0.00026	1,075.9	1,075.9	0.000000	2.1882	1.0086	0.45037
33	0.092292	0.016021	3,178.00	0.99048	1,075.4	1,076.4	0.002012	2.1847	1.0081	0.45050
34	0.096068	0.016021	3,059.20	1.9984	1,074.8	1,076.8	0.004056	2.1812	1.0077	0.45063
35	0.09998	0.016020	2,945.40	3.0059	1,074.2	1,077.2	0.006094	2.1777	1.0073	0.45077
36	0.10403	0.016020	2,836.40	4.0130	1,073.7	1,077.7	0.008128	2.1742	1.0069	0.45090
37	0.10823	0.016020	2,731.80	5.0197	1,073.1	1,078.1	0.010157	2.1707	1.0065	0.45103
38	0.11258	0.016020	2,631.60	6.0261	1,072.5	1,078.5	0.012181	2.1673	1.0061	0.45117
39	0.11708	0.016020	2,535.50	7.0321	1,072.0	1,079.0	0.014201	2.1638	1.0058	0.45131
40	0.12173	0.016020	2,443.30	8.0377	1,071.4	1,079.4	0.016215	2.1604	1.0055	0.45144
41	0.12656	0.016020	2,354.90	9.0430	1,070.9	1,079.9	0.018225	2.1570	1.0051	0.45158
42	0.13155	0.016020	2,270.10	10.048	1,070.3	1,080.3	0.020230	2.1536	1.0048	0.45172
43	0.13671	0.016020	2,188.60	11.053	1,069.6	1,080.7	0.022231	2.1502	1.0045	0.45186
44	0.14205	0.016021	2,110.50	12.057	1,069.1	1,081.2	0.024227	2.1469	1.0042	0.45200
45	0.14757	0.016021	2,035.50	13.061	1,068.5	1,081.6	0.026219	2.1435	1.0040	0.45214
46	0.15329	0.016021	1,963.50	14.065	1,067.9	1,082.0	0.028206	2.1402	1.0037	0.45228
47	0.15919	0.016022	1,894.30	15.069	1,067.4	1,082.5	0.030189	2.1369	1.0035	0.45242
48	0.16530	0.016023	1,827.90	16.072	1,066.8	1,082.9	0.032167	2.1336	1.0032	0.45256
49	0.17161	0.016023	1,764.10	17.075	1,066.3	1,083.4	0.034141	2.1303	1.0030	0.45270
50	0.17814	0.016024	1,702.80	18.078	1,065.7	1,083.8	0.036110	2.1271	1.0028	0.45284
51	0.18488	0.016025	1,643.90	19.081	1,065.1	1,084.2	0.038076	2.1239	1.0025	0.45299
52	0.19184	0.016026	1,587.30	20.083	1,064.6	1,084.7	0.040037	2.1206	1.0023	0.45313
53	0.19904	0.016027	1,532.90	21.085	1,064.0	1,085.1	0.041994	2.1174	1.0021	0.45328
54	0.20647	0.016028	1,480.50	22.087	1,063.4	1,085.5	0.043946	2.1142	1.0020	0.45342
55	0.21414	0.016029	1,430.20	23.089	1,062.9	1,086.0	0.045895	2.1111	1.0018	0.45357
56	0.22207	0.016030	1,381.90	24.091	1,062.3	1,086.4	0.047839	2.1079	1.0016	0.45371
57	0.23025	0.016031	1,335.30	25.093	1,061.7	1,086.8	0.049780	2.1048	1.0015	0.45386
58	0.23869	0.016032	1,290.50	26.094	1,061.2	1,087.3	0.051716	2.1016	1.0013	0.45401
59	0.24740	0.016034	1,247.40	27.095	1,060.6	1,087.7	0.053648	2.0985	1.0011	0.45416
60	0.25640	0.016035	1,206.00	28.096	1,060.1	1,088.2	0.055576	2.0954	1.0010	0.45431
61	0.26568	0.016036	1,166.10	29.097	1,059.5	1,088.6	0.057501	2.0924	1.0009	0.45446
62	0.27525	0.016038	1,127.70	30.098	1,058.9	1,089.0	0.059421	2.0893	1.0007	0.45461
63	0.28512	0.016039	1,090.70	31.099	1,058.4	1,089.5	0.061337	2.0862	1.0006	0.45476
64	0.29530	0.016041	1,055.00	32.099	1,057.8	1,089.9	0.063250	2.0832	1.0005	0.45491
65	0.30580	0.016043	1,020.70	33.100	1,057.2	1,090.3	0.065158	2.0802	1.0004	0.45506
66	0.31663	0.016044	987.69	34.100	1,056.7	1,090.8	0.067063	2.0772	1.0003	0.45521
67	0.32779	0.016046	955.85	35.101	1,056.1	1,091.2	0.068964	2.0742	1.0002	0.45537
68	0.33929	0.016048	925.17	36.101	1,055.5	1,091.6	0.070861	2.0712	1.0001	0.45552
69	0.35114	0.016050	895.61	37.101	1,055.0	1,092.1	0.072755	2.0683	1.0000	0.45568
70	0.36336	0.016052	867.11	38.101	1,054.4	1,092.5	0.074644	2.0653	0.9999	0.45583
71	0.37594	0.016054	839.64	39.101	1,053.8	1,092.9	0.076530	2.0624	0.9998	0.45599
72	0.38891	0.016056	813.16	40.101	1,053.3	1,093.4	0.078412	2.0595	0.9998	0.45614
73	0.40226	0.016058	787.62	41.100	1,052.7	1,093.8	0.080291	2.0566	0.9997	0.45630
74	0.41601	0.016060	762.99	42.100	1,052.1	1,094.2	0.082166	2.0537	0.9996	0.45646

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
75	0.43017	0.016062	739.23	43.100	1,051.6	1,094.7	0.084037	2.0508	0.9995	0.45662
76	0.44475	0.016064	716.31	44.099	1,051.0	1,095.1	0.085905	2.0479	0.9995	0.45678
77	0.45976	0.016067	694.20	45.099	1,050.4	1,095.5	0.087769	2.0451	0.9994	0.45694
78	0.47521	0.016069	672.86	46.098	1,049.9	1,096.0	0.089629	2.0423	0.9994	0.45710
79	0.49111	0.016071	652.26	47.097	1,049.3	1,096.4	0.091486	2.0394	0.9993	0.45726
80	0.50747	0.016074	632.38	48.097	1,048.7	1,096.8	0.093340	2.0366	0.9993	0.45742
81	0.52430	0.016076	613.19	49.096	1,048.2	1,097.3	0.095190	2.0338	0.9992	0.45759
82	0.54162	0.016079	594.66	50.095	1,047.6	1,097.7	0.097036	2.0311	0.9992	0.45775
83	0.55943	0.016081	576.76	51.095	1,047.0	1,098.1	0.098879	2.0283	0.9992	0.45791
84	0.57776	0.016084	559.48	52.094	1,046.5	1,098.6	0.10072	2.0255	0.9991	0.45808
85	0.59660	0.016086	542.79	53.093	1,045.9	1,099.0	0.10255	2.0228	0.9991	0.45825
86	0.61597	0.016089	526.66	54.092	1,045.3	1,099.4	0.10439	2.0201	0.9991	0.45842
87	0.63589	0.016092	511.08	55.091	1,044.8	1,099.9	0.10622	2.0174	0.9990	0.45858
88	0.65637	0.016095	496.02	56.090	1,044.2	1,100.3	0.10804	2.0147	0.9990	0.45875
89	0.67741	0.016097	481.47	57.089	1,043.6	1,100.7	0.10986	2.0120	0.9990	0.45892
90	0.69904	0.016100	467.40	58.088	1,043.0	1,101.1	0.11168	2.0093	0.9990	0.45910
91	0.72127	0.016103	453.80	59.087	1,042.5	1,101.6	0.11350	2.0066	0.9990	0.45927
92	0.74410	0.016106	440.65	60.086	1,041.9	1,102.0	0.11531	2.0040	0.9990	0.45944
93	0.76757	0.016109	427.94	61.085	1,041.3	1,102.4	0.11712	2.0013	0.9989	0.45962
94	0.79167	0.016112	415.64	62.084	1,040.8	1,102.9	0.11893	1.9987	0.9989	0.45979
95	0.81642	0.016115	403.75	63.083	1,040.2	1,103.3	0.12073	1.9961	0.9989	0.45997
96	0.84184	0.016118	392.25	64.082	1,039.6	1,103.7	0.12253	1.9935	0.9989	0.46015
97	0.86795	0.016122	381.11	65.081	1,039.1	1,104.2	0.12432	1.9909	0.9989	0.46033
98	0.89475	0.016125	370.34	66.080	1,038.5	1,104.6	0.12612	1.9883	0.9989	0.46051
99	0.92226	0.016128	359.92	67.079	1,037.9	1,105.0	0.12791	1.9858	0.9989	0.46069
100	0.95051	0.016131	349.83	68.078	1,037.3	1,105.4	0.12969	1.9832	0.9989	0.46087
101	0.9795	0.016135	340.07	69.077	1,036.8	1,105.9	0.13148	1.9807	0.9989	0.46106
102	1.0092	0.016138	330.62	70.076	1,036.2	1,106.3	0.13326	1.9781	0.9989	0.46124
103	1.0398	0.016141	321.47	71.075	1,035.6	1,106.7	0.13503	1.9756	0.9990	0.46143
104	1.0711	0.016145	312.60	72.074	1,035.1	1,107.2	0.13681	1.9731	0.9990	0.46162
105	1.1032	0.016148	304.02	73.073	1,034.5	1,107.6	0.13858	1.9706	0.9990	0.46181
106	1.1362	0.016152	295.71	74.073	1,033.9	1,108.0	0.14035	1.9681	0.9990	0.46200
107	1.1700	0.016155	287.65	75.072	1,033.3	1,108.4	0.14211	1.9657	0.9990	0.46219
108	1.2047	0.016159	279.85	76.071	1,032.8	1,108.9	0.14387	1.9632	0.9990	0.46239
109	1.2402	0.016163	272.29	77.070	1,032.2	1,109.3	0.14563	1.9608	0.9990	0.46259
110	1.2767	0.016166	264.97	78.069	1,031.6	1,109.7	0.14738	1.9583	0.9991	0.46278
111	1.3141	0.016170	257.87	79.068	1,031.0	1,110.1	0.14914	1.9559	0.9991	0.46298
112	1.3524	0.016174	250.99	80.067	1,030.5	1,110.6	0.15089	1.9535	0.9991	0.46318
113	1.3916	0.016177	244.31	81.067	1,029.9	1,111.0	0.15263	1.9511	0.9991	0.46338
114	1.4319	0.016181	237.85	82.066	1,029.3	1,111.4	0.15438	1.9487	0.9992	0.46359
115	1.4731	0.016185	231.58	83.065	1,028.7	1,111.8	0.15612	1.9463	0.9992	0.46379
116	1.5154	0.016189	225.50	84.064	1,028.2	1,112.3	0.15785	1.9439	0.9992	0.46400
117	1.5587	0.016193	219.60	85.064	1,027.6	1,112.7	0.15959	1.9416	0.9992	0.46421

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
118	1.6030	0.016197	213.88	86.063	1,027.0	1,113.1	0.16132	1.9392	0.9993	0.46442
119	1.6485	0.016201	208.33	87.063	1,026.4	1,113.5	0.16305	1.9369	0.9993	0.46464
120	1.6950	0.016205	202.95	88.062	1,025.9	1,114.0	0.16477	1.9346	0.9993	0.46485
121	1.7427	0.016209	197.72	89.061	1,025.3	1,114.4	0.16649	1.9322	0.9994	0.46507
122	1.7915	0.016213	192.65	90.061	1,024.7	1,114.8	0.16821	1.9299	0.9994	0.46529
123	1.8415	0.016217	187.73	91.061	1,024.1	1,115.2	0.16993	1.9276	0.9995	0.46551
124	1.8926	0.016221	182.96	92.060	1,023.5	1,115.6	0.17164	1.9253	0.9995	0.46573
125	1.9450	0.016226	178.32	93.060	1,023.0	1,116.1	0.17336	1.9231	0.9995	0.46595
126	1.9986	0.016230	173.82	94.059	1,022.4	1,116.5	0.17506	1.9208	0.9996	0.46618
127	2.0535	0.016234	169.46	95.059	1,021.8	1,116.9	0.17677	1.9185	0.9996	0.46641
128	2.1097	0.016238	165.21	96.059	1,021.2	1,117.3	0.17847	1.9163	0.9997	0.46664
129	2.1671	0.016243	161.09	97.059	1,020.6	1,117.7	0.18017	1.9141	0.9997	0.46687
130	2.2259	0.016247	157.09	98.059	1,020.1	1,118.2	0.18187	1.9118	0.9998	0.46711
131	2.2861	0.016252	153.21	99.059	1,019.5	1,118.6	0.18356	1.9096	0.9998	0.46734
132	2.3476	0.016256	149.43	100.06	1,018.9	1,119.0	0.18525	1.9074	0.9999	0.46758
133	2.4106	0.016261	145.76	101.06	1,018.3	1,119.4	0.18694	1.9052	0.9999	0.46783
134	2.4750	0.016265	142.20	102.06	1,017.7	1,119.8	0.18863	1.9030	0.9999	0.46807
135	2.5408	0.016270	138.73	103.06	1,017.2	1,120.3	0.19031	1.9008	1.0000	0.46832
136	2.6082	0.016274	135.37	104.06	1,016.6	1,120.7	0.19199	1.8987	1.0000	0.46857
137	2.6770	0.016279	132.10	105.06	1,016.0	1,121.1	0.19367	1.8965	1.0001	0.46882
138	2.7474	0.016283	128.91	106.06	1,015.4	1,121.5	0.19534	1.8944	1.0002	0.46907
139	2.8194	0.016288	125.82	107.06	1,014.8	1,121.9	0.19701	1.8922	1.0002	0.46933
140	2.8930	0.016293	122.82	108.06	1,014.2	1,122.3	0.19868	1.8901	1.0003	0.46959
141	2.9682	0.016298	119.89	109.06	1,013.7	1,122.8	0.20035	1.8880	1.0003	0.46985
142	3.0450	0.016302	117.05	110.06	1,013.1	1,123.2	0.20201	1.8859	1.0004	0.47011
143	3.1236	0.016307	114.29	111.06	1,012.5	1,123.6	0.20368	1.8838	1.0004	0.47038
144	3.2039	0.016312	111.60	112.06	1,011.9	1,124.0	0.20533	1.8817	1.0005	0.47065
145	3.2859	0.016317	108.98	113.06	1,011.3	1,124.4	0.20699	1.8796	1.0006	0.47092
146	3.3696	0.016322	106.44	114.06	1,010.7	1,124.8	0.20864	1.8775	1.0006	0.47120
147	3.4552	0.016327	103.96	115.07	1,010.2	1,125.3	0.21029	1.8754	1.0007	0.47147
148	3.5427	0.016332	101.56	116.07	1,009.6	1,125.7	0.21194	1.8734	1.0008	0.47175
149	3.6320	0.016337	99.21	117.07	1,009.0	1,126.1	0.21359	1.8713	1.0008	0.47204
150	3.7232	0.016342	96.93	118.07	1,008.4	1,126.5	0.21523	1.8693	1.0009	0.47232
151	3.8163	0.016347	94.71	119.07	1,007.8	1,126.9	0.21687	1.8672	1.0010	0.47261
152	3.9114	0.016352	92.548	120.07	1,007.2	1,127.3	0.21851	1.8652	1.0010	0.47290
153	4.0085	0.016357	90.444	121.07	1,006.6	1,127.7	0.22014	1.8632	1.0011	0.47320
154	4.1077	0.016362	88.396	122.07	1,006.0	1,128.1	0.22178	1.8612	1.0012	0.47350
155	4.2089	0.016367	86.401	123.07	1,005.4	1,128.5	0.22341	1.8592	1.0013	0.47380
156	4.3122	0.016373	84.459	124.08	1,004.9	1,129.0	0.22503	1.8572	1.0013	0.47410
157	4.4177	0.016378	82.568	125.08	1,004.3	1,129.4	0.22666	1.8552	1.0014	0.47441
158	4.5253	0.016383	80.726	126.08	1,003.7	1,129.8	0.22828	1.8533	1.0015	0.47472
159	4.6352	0.016389	78.931	127.08	1,003.1	1,130.2	0.22990	1.8513	1.0016	0.47503
160	4.7472	0.016394	77.184	128.08	1,002.5	1,130.6	0.23152	1.8493	1.0016	0.47535

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
161	4.8616	0.016399	75.481	129.09	1,001.9	1,131.0	0.23313	1.8474	1.0017	0.47567
162	4.9783	0.016405	73.822	130.09	1,001.3	1,131.4	0.23475	1.8454	1.0018	0.47599
163	5.0973	0.016410	72.205	131.09	1,000.7	1,131.8	0.23636	1.8435	1.0019	0.47632
164	5.2188	0.016416	70.630	132.09	1,000.1	1,132.2	0.23797	1.8416	1.0020	0.47665
165	5.3426	0.016421	69.094	133.09	999.5	1,132.6	0.23957	1.8397	1.0021	0.47698
166	5.4689	0.016427	67.598	134.10	998.9	1,133.0	0.24117	1.8378	1.0021	0.47731
167	5.5978	0.016432	66.139	135.10	998.3	1,133.4	0.24277	1.8359	1.0022	0.47765
168	5.7292	0.016438	64.717	136.10	997.7	1,133.8	0.24437	1.8340	1.0023	0.47800
169	5.8632	0.016444	63.331	137.10	997.1	1,134.2	0.24597	1.8321	1.0024	0.47834
170	5.9998	0.016449	61.980	138.11	996.5	1,134.6	0.24756	1.8302	1.0025	0.47870
171	6.1390	0.016455	60.662	139.11	995.9	1,135.0	0.24915	1.8283	1.0026	0.47905
172	6.2810	0.016461	59.377	140.11	995.3	1,135.4	0.25074	1.8265	1.0027	0.47941
173	6.4258	0.016466	58.123	141.12	994.8	1,135.9	0.25233	1.8246	1.0028	0.47977
174	6.5733	0.016472	56.901	142.12	994.2	1,136.3	0.25391	1.8228	1.0029	0.48013
175	6.7236	0.016478	55.709	143.12	993.6	1,136.7	0.25549	1.8209	1.0030	0.48050
176	6.8769	0.016484	54.545	144.13	993.0	1,137.1	0.25707	1.8191	1.0031	0.48087
177	7.0331	0.016490	53.411	145.13	992.4	1,137.5	0.25865	1.8173	1.0032	0.48125
178	7.1922	0.016496	52.303	146.13	991.8	1,137.9	0.26022	1.8154	1.0033	0.48163
179	7.3543	0.016502	51.223	147.14	991.1	1,138.2	0.26179	1.8136	1.0034	0.48202
180	7.5195	0.016508	50.169	148.14	990.5	1,138.6	0.26336	1.8118	1.0035	0.48240
181	7.6878	0.016514	49.140	149.14	989.9	1,139.0	0.26493	1.8100	1.0036	0.48280
182	7.8592	0.016520	48.136	150.15	989.3	1,139.4	0.26649	1.8082	1.0037	0.48319
183	8.0339	0.016526	47.156	151.15	988.7	1,139.8	0.26806	1.8065	1.0038	0.48359
184	8.2117	0.016532	46.200	152.16	988.0	1,140.2	0.26962	1.8047	1.0039	0.48400
185	8.3929	0.016538	45.266	153.16	987.4	1,140.6	0.27118	1.8029	1.0040	0.48440
186	8.5774	0.016544	44.354	154.17	986.8	1,141.0	0.27273	1.8012	1.0041	0.48482
187	8.7652	0.016550	43.464	155.17	986.2	1,141.4	0.27429	1.7994	1.0043	0.48523
188	8.9565	0.016556	42.594	156.18	985.6	1,141.8	0.27584	1.7977	1.0044	0.48565
189	9.1513	0.016563	41.745	157.18	985.0	1,142.2	0.27739	1.7959	1.0045	0.48608
190	9.3496	0.016569	40.916	158.18	984.4	1,142.6	0.27893	1.7942	1.0046	0.48651
191	9.5515	0.016575	40.107	159.19	983.8	1,143.0	0.28048	1.7925	1.0047	0.48694
192	9.7569	0.016582	39.316	160.20	983.2	1,143.4	0.28202	1.7907	1.0048	0.48738
193	9.9661	0.016588	38.543	161.20	982.6	1,143.8	0.28356	1.7890	1.0050	0.48782
194	10.179	0.016594	37.788	162.21	982.0	1,144.2	0.28510	1.7873	1.0051	0.48827
195	10.396	0.016601	37.051	163.21	981.3	1,144.5	0.28664	1.7856	1.0052	0.48872
196	10.616	0.016607	36.331	164.22	980.7	1,144.9	0.28817	1.7839	1.0053	0.48918
197	10.841	0.016614	35.627	165.22	980.1	1,145.3	0.28970	1.7822	1.0055	0.48964
198	11.069	0.016620	34.939	166.23	979.5	1,145.7	0.29123	1.7806	1.0056	0.49011
199	11.301	0.016627	34.266	167.24	978.9	1,146.1	0.29276	1.7789	1.0057	0.49058
200	11.538	0.016633	33.609	168.24	978.3	1,146.5	0.29429	1.7772	1.0059	0.49105
201	11.778	0.016640	32.967	169.25	977.7	1,146.9	0.29581	1.7755	1.0060	0.49153
202	12.023	0.016647	32.339	170.26	977.0	1,147.3	0.29733	1.7739	1.0061	0.49202
203	12.271	0.016653	31.725	171.26	976.3	1,147.6	0.29885	1.7722	1.0063	0.49251

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
204	12.524	0.016660	31.125	172.27	975.7	1,148.0	0.30037	1.7706	1.0064	0.49300
205	12.782	0.016667	30.539	173.28	975.1	1,148.4	0.30188	1.7690	1.0065	0.49350
206	13.044	0.016673	29.965	174.28	974.5	1,148.8	0.30340	1.7673	1.0067	0.49401
207	13.310	0.016680	29.404	175.29	973.9	1,149.2	0.30491	1.7657	1.0068	0.49452
208	13.581	0.016687	28.856	176.30	973.2	1,149.5	0.30642	1.7641	1.0070	0.49503
209	13.856	0.016694	28.319	177.31	972.6	1,149.9	0.30792	1.7625	1.0071	0.49555
210	14.136	0.016701	27.794	178.31	972.0	1,150.3	0.30943	1.7609	1.0073	0.49608
211	14.420	0.016708	27.281	179.32	971.4	1,150.7	0.31093	1.7593	1.0074	0.49661
211.95	14.694	0.016714	26.805	180.28	970.7	1,151.0	0.31235	1.7578	1.0076	0.49711
212	14.709	0.016715	26.779	180.33	970.8	1,151.1	0.31243	1.7577	1.0076	0.49714
213	15.003	0.016722	26.288	181.34	970.1	1,151.4	0.31393	1.7561	1.0077	0.49768
214	15.302	0.016729	25.807	182.35	969.5	1,151.8	0.31543	1.7545	1.0079	0.49823
215	15.606	0.016736	25.337	183.36	968.8	1,152.2	0.31692	1.7529	1.0080	0.49878
216	15.915	0.016743	24.877	184.36	968.2	1,152.6	0.31841	1.7514	1.0082	0.49934
217	16.229	0.016750	24.427	185.37	967.5	1,152.9	0.31990	1.7498	1.0084	0.49990
218	16.548	0.016757	23.986	186.38	966.9	1,153.3	0.32139	1.7482	1.0085	0.50047
219	16.872	0.016764	23.555	187.39	966.3	1,153.7	0.32288	1.7467	1.0087	0.50104
220	17.201	0.016771	23.133	188.40	965.7	1,154.1	0.32436	1.7451	1.0088	0.50162
221	17.536	0.016778	22.720	189.41	965.0	1,154.4	0.32585	1.7436	1.0090	0.50221
222	17.875	0.016786	22.316	190.42	964.4	1,154.8	0.32733	1.7420	1.0092	0.50280
223	18.221	0.016793	21.920	191.43	963.8	1,155.2	0.32881	1.7405	1.0094	0.50339
224	18.572	0.016800	21.533	192.44	963.1	1,155.5	0.33028	1.7390	1.0095	0.50400
225	18.928	0.016808	21.153	193.45	962.5	1,155.9	0.33176	1.7375	1.0097	0.50460
226	19.290	0.016815	20.782	194.46	961.8	1,156.3	0.33323	1.7360	1.0099	0.50522
227	19.658	0.016822	20.418	195.47	961.1	1,156.6	0.33470	1.7344	1.0101	0.50584
228	20.031	0.016830	20.062	196.48	960.5	1,157.0	0.33617	1.7329	1.0102	0.50646
229	20.410	0.016837	19.713	197.49	959.9	1,157.4	0.33764	1.7314	1.0104	0.50710
230	20.795	0.016845	19.371	198.51	959.2	1,157.7	0.33911	1.7299	1.0106	0.50773
231	21.186	0.016852	19.036	199.52	958.6	1,158.1	0.34057	1.7285	1.0108	0.50838
232	21.583	0.016860	18.709	200.53	957.9	1,158.4	0.34203	1.7270	1.0110	0.50903
233	21.987	0.016867	18.387	201.54	957.3	1,158.8	0.34349	1.7255	1.0112	0.50969
234	22.396	0.016875	18.073	202.55	956.7	1,159.2	0.34495	1.7240	1.0113	0.51035
235	22.812	0.016883	17.765	203.57	955.9	1,159.5	0.34641	1.7225	1.0115	0.51102
236	23.234	0.016890	17.463	204.58	955.3	1,159.9	0.34786	1.7211	1.0117	0.51169
237	23.662	0.016898	17.167	205.59	954.6	1,160.2	0.34932	1.7196	1.0119	0.51237
238	24.097	0.016906	16.877	206.60	954.0	1,160.6	0.35077	1.7182	1.0121	0.51306
239	24.538	0.016913	16.593	207.62	953.4	1,161.0	0.35222	1.7167	1.0123	0.51376
240	24.986	0.016921	16.314	208.63	952.7	1,161.3	0.35366	1.7153	1.0125	0.51446
241	25.440	0.016929	16.041	209.64	952.1	1,161.7	0.35511	1.7138	1.0127	0.51517
242	25.902	0.016937	15.774	210.66	951.3	1,162.0	0.35655	1.7124	1.0129	0.51588
243	26.370	0.016945	15.512	211.67	950.7	1,162.4	0.35799	1.7110	1.0132	0.51660
244	26.845	0.016953	15.254	212.69	950.0	1,162.7	0.35944	1.7096	1.0134	0.51733
245	27.327	0.016961	15.003	213.70	949.4	1,163.1	0.36087	1.7081	1.0136	0.51806

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
246	27.816	0.016969	14.755	214.71	948.7	1,163.4	0.36231	1.7067	1.0138	0.51880
247	28.312	0.016977	14.513	215.73	948.1	1,163.8	0.36375	1.7053	1.0140	0.51955
248	28.815	0.016985	14.276	216.74	947.4	1,164.1	0.36518	1.7039	1.0142	0.52031
249	29.326	0.016993	14.043	217.76	946.7	1,164.5	0.36661	1.7025	1.0144	0.52107
250	29.844	0.017001	13.815	218.78	946.0	1,164.8	0.36804	1.7011	1.0147	0.52184
252	30.903	0.017017	13.371	220.81	944.7	1,165.5	0.37089	1.6983	1.0151	0.52339
254	31.991	0.017034	12.945	222.84	943.4	1,166.2	0.37374	1.6956	1.0156	0.52498
256	33.111	0.017050	12.534	224.87	942.0	1,166.9	0.37658	1.6928	1.0160	0.52659
258	34.263	0.017067	12.139	226.91	940.6	1,167.5	0.37942	1.6901	1.0165	0.52824
260	35.447	0.017084	11.759	228.95	939.3	1,168.2	0.38225	1.6874	1.0170	0.52991
262	36.664	0.017101	11.393	230.98	937.9	1,168.9	0.38507	1.6847	1.0175	0.53161
264	37.915	0.017118	11.040	233.02	936.5	1,169.5	0.38788	1.6820	1.0180	0.53334
266	39.201	0.017135	10.700	235.06	935.1	1,170.2	0.39069	1.6794	1.0185	0.53510
268	40.521	0.017152	10.373	237.10	933.8	1,170.9	0.39349	1.6767	1.0190	0.53689
270	41.878	0.017170	10.058	239.14	932.4	1,171.5	0.39629	1.6741	1.0196	0.53871
272	43.271	0.017188	9.754	241.18	931.0	1,172.2	0.39908	1.6715	1.0201	0.54056
274	44.701	0.017205	9.461	243.23	929.6	1,172.8	0.40186	1.6689	1.0207	0.54245
276	46.169	0.017223	9.1784	245.27	928.1	1,173.4	0.40464	1.6663	1.0212	0.54436
278	47.676	0.017241	8.9059	247.32	926.8	1,174.1	0.40741	1.6637	1.0218	0.54630
280	49.222	0.017259	8.6431	249.37	925.3	1,174.7	0.41017	1.6612	1.0224	0.54828
282	50.809	0.017278	8.3894	251.41	923.9	1,175.3	0.41293	1.6587	1.0230	0.55029
284	52.437	0.017296	8.1447	253.46	922.5	1,176.0	0.41568	1.6561	1.0236	0.55233
286	54.106	0.017315	7.9084	255.51	921.1	1,176.6	0.41843	1.6536	1.0242	0.55440
288	55.818	0.017333	7.6803	257.57	919.6	1,177.2	0.42117	1.6511	1.0248	0.55650
290	57.574	0.017352	7.4600	259.62	918.2	1,177.8	0.42391	1.6487	1.0254	0.55864
292	59.373	0.017371	7.2473	261.67	916.7	1,178.4	0.42664	1.6462	1.0261	0.56081
294	61.218	0.017390	7.0418	263.73	915.3	1,179.0	0.42936	1.6438	1.0267	0.56301
296	63.108	0.017410	6.8432	265.79	913.8	1,179.6	0.43208	1.6413	1.0274	0.56525
298	65.045	0.017429	6.6513	267.85	912.4	1,180.2	0.43479	1.6389	1.0280	0.56752
300	67.029	0.017448	6.4658	269.91	910.8	1,180.7	0.43750	1.6365	1.0287	0.56982
302	69.062	0.017468	6.2865	271.97	909.3	1,181.3	0.44020	1.6341	1.0294	0.57216
304	71.143	0.017488	6.1131	274.03	907.9	1,181.9	0.44290	1.6317	1.0301	0.57452
306	73.275	0.017508	5.9454	276.10	906.4	1,182.5	0.44559	1.6293	1.0308	0.57693
308	75.457	0.017528	5.7832	278.16	904.8	1,183.0	0.44828	1.6270	1.0316	0.57936
310	77.691	0.017548	5.6263	280.23	903.4	1,183.6	0.45096	1.6246	1.0323	0.58184
312	79.978	0.017569	5.4745	282.30	901.8	1,184.1	0.45363	1.6223	1.0331	0.58434
314	82.318	0.017589	5.3275	284.37	900.3	1,184.7	0.45630	1.6200	1.0338	0.58688
316	84.712	0.017610	5.1853	286.45	898.8	1,185.2	0.45897	1.6177	1.0346	0.58946
318	87.162	0.017631	5.0475	288.52	897.3	1,185.8	0.46163	1.6154	1.0354	0.59206
320	89.667	0.017652	4.9142	290.60	895.7	1,186.3	0.46428	1.6131	1.0362	0.59471
322	92.230	0.017673	4.7850	292.67	894.1	1,186.8	0.46693	1.6108	1.0370	0.59739
324	94.851	0.017695	4.6599	294.75	892.6	1,187.3	0.46958	1.6085	1.0378	0.60010
326	97.530	0.017716	4.5387	296.83	891.0	1,187.8	0.47222	1.6063	1.0386	0.60285

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
328	100.27	0.017738	4.4213	298.92	889.4	1,188.3	0.47486	1.6040	1.0395	0.60563
330	103.07	0.017760	4.3075	301.00	887.8	1,188.8	0.47749	1.6018	1.0404	0.60845
332	105.93	0.017782	4.1971	303.09	886.2	1,189.3	0.48011	1.5996	1.0412	0.61131
334	108.86	0.017804	4.0902	305.18	884.6	1,189.8	0.48274	1.5974	1.0421	0.61420
336	111.84	0.017826	3.9865	307.27	883.0	1,190.3	0.48535	1.5952	1.0430	0.61712
338	114.90	0.017849	3.8859	309.36	881.4	1,190.8	0.48797	1.5930	1.0439	0.62009
340	118.02	0.017872	3.7884	311.45	879.9	1,191.3	0.49058	1.5908	1.0449	0.62308
342	121.20	0.017894	3.6937	313.55	878.2	1,191.7	0.49318	1.5886	1.0458	0.62612
344	124.45	0.017917	3.6019	315.64	876.6	1,192.2	0.49578	1.5864	1.0468	0.62919
346	127.77	0.017941	3.5129	317.74	874.9	1,192.6	0.49838	1.5843	1.0477	0.63230
348	131.17	0.017964	3.4264	319.85	873.3	1,193.1	0.50097	1.5821	1.0487	0.63544
350	134.63	0.017987	3.3425	321.95	871.6	1,193.5	0.50355	1.5800	1.0497	0.63863
352	138.16	0.018011	3.2610	324.06	869.8	1,193.9	0.50614	1.5779	1.0507	0.64185
354	141.77	0.018035	3.1819	326.16	868.2	1,194.4	0.50872	1.5757	1.0518	0.64510
356	145.45	0.018059	3.1051	328.27	866.5	1,194.8	0.51129	1.5736	1.0528	0.64840
358	149.20	0.018083	3.0304	330.39	864.8	1,195.2	0.51386	1.5715	1.0539	0.65173
360	153.03	0.018108	2.9580	332.50	863.1	1,195.6	0.51643	1.5694	1.0550	0.65510
362	156.94	0.018133	2.8875	334.62	861.4	1,196.0	0.51899	1.5673	1.0560	0.65851
364	160.92	0.018157	2.8191	336.74	859.7	1,196.4	0.52155	1.5653	1.0572	0.66196
366	164.99	0.018182	2.7526	338.86	857.9	1,196.8	0.52411	1.5632	1.0583	0.66545
368	169.13	0.018208	2.6880	340.98	856.2	1,197.2	0.52666	1.5611	1.0594	0.66897
370	173.36	0.018233	2.6252	343.11	854.4	1,197.5	0.52921	1.5591	1.0606	0.67254
372	177.67	0.018259	2.5641	345.23	852.7	1,197.9	0.53175	1.5570	1.0618	0.67615
374	182.06	0.018284	2.5047	347.37	850.9	1,198.3	0.53429	1.5550	1.0630	0.67980
376	186.53	0.018310	2.4469	349.50	849.1	1,198.6	0.53683	1.5529	1.0642	0.68348
378	191.09	0.018337	2.3907	351.63	847.4	1,199.0	0.53937	1.5509	1.0654	0.68721
380	195.74	0.018363	2.3361	353.77	845.5	1,199.3	0.54190	1.5489	1.0666	0.69098
382	200.48	0.018390	2.2829	355.91	843.7	1,199.6	0.54442	1.5468	1.0679	0.69480
384	205.31	0.018416	2.2312	358.06	841.8	1,199.9	0.54695	1.5448	1.0692	0.69866
386	210.22	0.018443	2.1808	360.20	840.1	1,200.3	0.54947	1.5428	1.0705	0.70255
388	215.23	0.018471	2.1318	362.35	838.3	1,200.6	0.55199	1.5408	1.0718	0.70650
390	220.33	0.018498	2.0841	364.50	836.4	1,200.9	0.55450	1.5388	1.0732	0.71049
392	225.52	0.018526	2.0377	366.66	834.5	1,201.2	0.55701	1.5368	1.0745	0.71452
394	230.81	0.018554	1.9925	368.81	832.6	1,201.4	0.55952	1.5349	1.0759	0.71860
396	236.20	0.018582	1.9485	370.97	830.7	1,201.7	0.56202	1.5329	1.0773	0.72272
398	241.68	0.018610	1.9056	373.13	828.9	1,202.0	0.56453	1.5309	1.0787	0.72689
400	247.26	0.018639	1.8638	375.30	826.9	1,202.2	0.56703	1.5289	1.0802	0.73111
405	261.65	0.018711	1.7641	380.73	822.2	1,202.9	0.57326	1.5241	1.0839	0.74187
410	276.68	0.018785	1.6706	386.17	817.2	1,203.4	0.57948	1.5192	1.0878	0.75294
415	292.38	0.018861	1.5829	391.63	812.3	1,203.9	0.58568	1.5144	1.0918	0.76434
420	308.76	0.018938	1.5006	397.12	807.3	1,204.4	0.59187	1.5096	1.0959	0.77608
425	325.84	0.019017	1.4232	402.62	802.2	1,204.8	0.59804	1.5048	1.1002	0.78818
430	343.64	0.019097	1.3505	408.15	797.0	1,205.1	0.60420	1.5000	1.1047	0.80065

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
435	362.18	0.019179	1.2821	413.70	791.7	1,205.4	0.61035	1.4953	1.1094	0.81352
440	381.48	0.019263	1.2177	419.27	786.3	1,205.6	0.61648	1.4905	1.1143	0.82680
445	401.57	0.019349	1.1571	424.87	780.9	1,205.8	0.62260	1.4858	1.1193	0.84053
450	422.46	0.019437	1.0999	430.49	775.4	1,205.9	0.62872	1.4811	1.1246	0.85471
455	444.18	0.019527	1.0460	436.13	769.9	1,206.0	0.63482	1.4765	1.1301	0.86939
460	466.75	0.019619	0.99506	441.81	764.1	1,205.9	0.64092	1.4718	1.1358	0.88459
465	490.19	0.019713	0.94698	447.51	758.3	1,205.8	0.64701	1.4671	1.1417	0.90034
470	514.52	0.019810	0.90154	453.24	752.5	1,205.7	0.65309	1.4624	1.1479	0.91668
475	539.77	0.019908	0.85857	458.99	746.4	1,205.4	0.65917	1.4578	1.1544	0.93365
480	565.95	0.020010	0.81791	464.78	740.3	1,205.1	0.66524	1.4531	1.1612	0.95129
485	593.10	0.020113	0.77940	470.60	734.2	1,204.8	0.67131	1.4485	1.1683	0.96964
490	621.23	0.020220	0.74293	476.46	727.8	1,204.3	0.67738	1.4438	1.1757	0.98876
495	650.38	0.020329	0.70835	482.35	721.5	1,203.8	0.68345	1.4391	1.1835	1.0087
500	680.55	0.020441	0.67555	488.27	714.8	1,203.1	0.68952	1.4344	1.1916	1.0295
505	711.79	0.020557	0.64442	494.23	708.2	1,202.4	0.69559	1.4297	1.2001	1.0513
510	744.11	0.020675	0.61486	500.23	701.4	1,201.6	0.70167	1.4250	1.2091	1.0741
515	777.54	0.020797	0.58678	506.27	694.4	1,200.7	0.70775	1.4203	1.2185	1.0980
520	812.10	0.020923	0.56007	512.35	687.5	1,199.8	0.71384	1.4155	1.2285	1.1231
525	847.83	0.021052	0.53467	518.48	680.2	1,198.7	0.71993	1.4107	1.2389	1.1494
530	884.74	0.021185	0.51049	524.65	672.9	1,197.5	0.72604	1.4059	1.2500	1.1772
535	922.87	0.021322	0.48747	530.87	665.3	1,196.2	0.73215	1.4010	1.2617	1.2065
540	962.24	0.021464	0.46553	537.14	657.7	1,194.8	0.73829	1.3962	1.2740	1.2374
545	1,002.9	0.021610	0.44461	543.46	649.8	1,193.3	0.74443	1.3912	1.2872	1.2701
550	1,044.8	0.021761	0.42466	549.84	641.9	1,191.7	0.75060	1.3863	1.3011	1.3048
555	1,088.1	0.021918	0.40561	556.28	633.6	1,189.9	0.75678	1.3812	1.3159	1.3417
560	1,132.7	0.022080	0.38742	562.77	625.2	1,188.0	0.76299	1.3762	1.3317	1.3810
565	1,178.7	0.022248	0.37003	569.34	616.7	1,186.0	0.76923	1.3710	1.3487	1.4229
570	1,226.2	0.022422	0.35341	575.96	607.8	1,183.8	0.77549	1.3658	1.3668	1.4677
575	1,275.1	0.022603	0.33750	582.67	598.8	1,181.5	0.78178	1.3606	1.3862	1.5158
580	1,325.5	0.022791	0.32227	589.44	589.6	1,179.0	0.78812	1.3552	1.4072	1.5675
585	1,377.4	0.022988	0.30768	596.30	580.1	1,176.4	0.79449	1.3498	1.4298	1.6234
590	1,430.8	0.023193	0.29369	603.25	570.4	1,173.6	0.80090	1.3443	1.4543	1.6838
595	1,485.8	0.023407	0.28027	610.29	560.3	1,170.6	0.80736	1.3386	1.4809	1.7494
600	1,542.5	0.023631	0.26739	617.42	550.0	1,167.4	0.81388	1.3329	1.5100	1.8210
605	1,600.8	0.023866	0.25501	624.66	539.3	1,164.0	0.82046	1.3270	1.5418	1.8993
610	1,660.9	0.024113	0.24311	632.02	528.3	1,160.3	0.82710	1.3210	1.5769	1.9855
615	1,722.6	0.024373	0.23166	639.50	517.0	1,156.5	0.83382	1.3149	1.6157	2.0809
620	1,786.2	0.024647	0.22062	647.11	505.2	1,152.3	0.84062	1.3085	1.6588	2.1869
625	1,851.6	0.024938	0.20998	654.87	493.0	1,147.9	0.84751	1.3020	1.7072	2.3055
630	1,918.9	0.025247	0.19971	662.79	480.3	1,143.1	0.85451	1.2953	1.7618	2.4392
635	1,988.1	0.025577	0.18978	670.89	467.2	1,138.1	0.86162	1.2884	1.8241	2.5911
640	2,059.2	0.025930	0.18017	679.19	453.4	1,132.6	0.86888	1.2812	1.8958	2.7654
645	2,132.5	0.026309	0.17085	687.71	439.0	1,126.7	0.87628	1.2737	1.9796	2.9674

Saturation Properties for H₂O from +32 °F thru +705 °F

Saturation		Specific Volume (V)		Enthalpy (h)			Entropy (s)		Specific Heat (C _p)	
Temp.	Press.	ft ³ /lbm		Btu/lbm			Btu/lbm-°R		Btu/lbm-°R	
°F	psia	Liquid (f)	Vapor (g)	Liquid (f)	h _{fg}	Vapor (g)	Liquid (f)	Vapor (g)	Liquid (f)	Vapor (g)
650	2,207.8	0.026720	0.16180	696.48	423.9	1,120.4	0.88387	1.2659	2.0791	3.2045
655	2,285.2	0.027168	0.15299	705.54	408.0	1,113.5	0.89168	1.2577	2.1993	3.4872
660	2,364.9	0.027661	0.14439	714.96	391.1	1,106.1	0.89974	1.2491	2.3480	3.8305
665	2,446.8	0.028208	0.13597	724.79	373.1	1,097.9	0.90812	1.2399	2.5366	4.2569
670	2,531.2	0.028826	0.12768	735.12	353.8	1,088.9	0.91690	1.2301	2.7832	4.8020
675	2,618.0	0.029533	0.11949	746.10	332.8	1,078.9	0.92618	1.2195	3.1169	5.5259
680	2,707.3	0.030361	0.11132	757.89	309.7	1,067.6	0.93611	1.2078	3.5861	6.5383
685	2,799.3	0.031354	0.10307	770.74	283.8	1,054.5	0.94690	1.1948	4.2786	8.0629
690	2,894.0	0.032581	0.094561	785.02	254.0	1,039.0	0.95886	1.1798	5.3920	10.639
695	2,991.8	0.034182	0.085451	801.52	218.0	1,019.5	0.97265	1.1614	7.6260	15.956
700	3,093.0	0.036652	0.074795	823.00	168.66	991.66	0.99065	1.1361	15.579	32.942
705	3,197.9	0.045551	0.054819	876.69	42.92	919.61	1.03620	1.0730	1,809.6	2,312.9
705.1	3,200.1	0.048782	0.050763	892.16	9.20	901.36	1.04940	1.0573	112,010	117,580

Important Thermodynamic Conditions:

Triple Point (Solid - Liquid - Gas): Temperature = 32.018 °F, Pressure = 0.088713 psia

Normal Boiling Point: Temperature = 211.95 °F, Pressure = 14.6959 psia

Critical Point: Temperature = 705.1 °F, Pressure = 3,200.1 psia, Density = 20.102 lbm/ft³

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)		Sat. Water	Sat. Steam	TEMPERATURE--DEGREES FAHRENHEIT													
				200°	250°	300°	350°	400°	450°	500°	600°	700°	800°	900°	1000°	1100°	1200°
1 (101.76)	Sh			98.24	148.24	198.24	248.24	298.24	348.24	398.24	498.24	598.24	698.24	798.24	898.24	998.24	1098.24
	v	0.0161	333.79	392.5	422.5	452.1	482.1	511.7	541.8	571.3	630.9	690.6	750.2	809.8	869.4	929.1	988.7
	h	69.72	1105.2	1149.2	1171.9	1194.4	1217.3	1240.2	1263.5	1286.7	1333.9	1382.1	1431.0	1480.8	1531.4	1583.0	1635.4
	s	0.1326	1.9769	2.0491	2.0822	2.1128	2.1420	2.1694	2.1957	2.2206	2.2673	2.3107	2.3512	2.3892	2.4251	2.4592	2.4918
5 (162.25)	Sh			37.75	87.75	137.75	187.75	237.75	287.75	337.75	437.75	537.75	637.75	737.75	837.75	937.75	1037.75
	v	0.0164	73.600	78.17	84.24	90.21	96.26	102.19	108.23	114.16	126.11	138.05	149.99	161.91	173.83	185.80	197.72
	h	130.13	1130.8	1148.3	1171.1	1193.6	1216.6	1239.8	1263.0	1286.1	1333.5	1381.8	1430.8	1480.6	1531.2	1582.9	1635.3
	s	0.2347	1.8437	1.8710	1.9043	1.9349	1.9642	1.9920	2.0182	2.0429	2.0898	2.1333	2.1738	2.2118	2.2478	2.2820	2.3146
10 (193.21)	Sh			6.79	56.79	106.79	156.79	206.79	256.79	306.79	406.79	506.79	606.79	706.79	806.79	906.79	1006.79
	v	0.0166	38.462	38.88	41.96	44.98	48.02	51.01	54.04	57.02	63.01	68.99	74.96	80.92	86.89	92.88	98.85
	h	161.17	1143.3	1146.7	1170.2	1192.8	1216.0	1239.3	1262.5	1285.8	1333.3	1381.6	1430.6	1480.5	1531.2	1582.8	1635.2
	s	0.2834	1.7876	1.7928	1.8271	1.8579	1.8875	1.9154	1.9416	1.9665	2.0135	2.0570	2.0975	2.1356	2.1716	2.2058	2.2384
14.696 (212.00)	Sh			38.00	88.00	138.00	188.00	238.00	288.00	338.00	438.00	538.00	638.00	738.00	838.00	938.00	1038.00
	v	0.0167	26.828	28.44	30.52	32.61	34.65	36.73	38.75	42.83	46.91	50.97	55.03	59.09	63.19	67.25	71.30
	h	180.07	1150.4	1169.2	1192.0	1215.4	1238.9	1262.1	1285.4	1333.0	1381.4	1430.3	1480.4	1531.1	1582.7	1635.1	1687.5
	s	0.3120	1.7566	1.7838	1.8148	1.8446	1.8727	1.8989	1.9238	1.9709	2.0145	2.0551	2.0932	2.1292	2.1634	2.1960	2.2284
15 (213.03)	Sh			36.97	86.97	136.97	186.97	236.97	286.97	336.97	436.97	536.97	636.97	736.97	836.97	936.97	1036.97
	v	0.0167	26.320	27.86	29.90	31.94	33.95	35.98	37.97	41.98	45.97	49.95	53.93	57.91	61.91	65.89	69.85
	h	181.11	1150.7	1169.2	1192.0	1215.4	1238.9	1262.1	1285.4	1333.0	1381.4	1430.3	1480.4	1531.1	1582.7	1635.1	1687.5
	s	0.3135	1.7548	1.7816	1.8126	1.8424	1.8705	1.8967	1.9216	1.9687	2.0123	2.0529	2.0910	2.1270	2.1612	2.1938	2.2262
20 (227.96)	Sh			22.04	72.04	122.04	172.04	222.04	272.04	322.04	422.04	522.04	622.04	722.04	822.04	922.04	1022.04
	v	0.0168	20.110	20.81	22.36	23.91	25.43	26.95	28.45	31.46	34.46	37.44	40.43	43.42	46.43	49.41	52.38
	h	196.16	1156.1	1168.0	1191.1	1214.8	1238.4	1261.6	1285.0	1332.7	1381.2	1430.3	1480.2	1531.0	1582.6	1635.1	1687.5
	s	0.3356	1.7315	1.7485	1.7799	1.8101	1.8384	1.8646	1.8896	1.9368	1.9805	2.0211	2.0592	2.0952	2.1294	2.1620	2.1938
25 (240.07)	Sh			9.93	59.93	109.93	159.93	209.93	259.93	309.93	409.93	509.93	609.93	709.93	809.93	909.93	1009.93
	v	0.0169	16.321	16.58	17.84	19.08	20.30	21.53	22.73	25.15	27.55	29.94	32.33	34.73	37.14	39.52	41.89
	h	208.41	1160.4	1166.3	1190.2	1214.1	1237.9	1261.1	1284.6	1332.4	1381.0	1430.1	1480.0	1530.9	1582.5	1635.0	1687.5
	s	0.3532	1.7137	1.7221	1.7570	1.7875	1.8160	1.8422	1.8673	1.9146	1.9584	1.9990	2.0371	2.0732	2.1074	2.1400	2.1718
30 (250.34)	Sh			49.66	99.66	149.66	199.66	249.66	299.66	349.66	449.66	549.66	649.66	749.66	849.66	949.66	1049.66
	v	0.0170	13.763	14.82	15.87	16.89	17.91	18.92	20.94	22.94	24.94	26.93	28.93	30.94	32.93	34.93	36.92
	h	218.83	1164.0	1189.2	1213.4	1237.4	1260.6	1284.2	1332.1	1380.8	1429.9	1479.9	1530.8	1582.4	1634.9	1687.5	1740.0
	s	0.3680	1.6992	1.7335	1.7643	1.7930	1.8192	1.8444	1.8918	1.9357	1.9763	2.0145	2.0506	2.0848	2.1174	2.1490	2.1798
35 (259.28)	Sh			40.72	90.72	140.72	190.72	240.72	290.72	340.72	440.72	540.72	640.72	740.72	840.72	940.72	1040.72
	v	0.0171	11.907	12.66	13.57	14.45	15.33	16.20	17.94	19.66	21.36	23.08	24.79	26.52	28.22	29.95	31.67
	h	227.92	1167.0	1188.2	1212.7	1236.9	1260.1	1283.8	1331.9	1380.6	1429.8	1479.8	1530.7	1582.3	1634.8	1687.5	1740.0
	s	0.3807	1.6869	1.7156	1.7468	1.7758	1.8020	1.8274	1.8750	1.9189	1.9596	1.9978	2.0339	2.0681	2.1007	2.1323	2.1631
40 (267.24)	Sh			32.76	82.76	132.76	182.76	232.76	282.76	332.76	432.76	532.76	632.76	732.76	832.76	932.76	1032.76
	v	0.0172	10.506	11.04	11.84	12.62	13.40	14.16	15.68	17.19	18.69	20.18	21.68	23.20	24.69	26.19	27.69
	h	236.02	1169.7	1187.1	1211.9	1236.4	1260.6	1283.4	1331.6	1380.4	1429.6	1479.6	1530.6	1582.2	1634.8	1687.5	1740.0
	s	0.3919	1.6763	1.6997	1.7313	1.7606	1.7868	1.8123	1.8600	1.9040	1.9447	1.9829	2.0191	2.0533	2.0860	2.1183	2.1500
45 (274.45)	Sh			25.55	75.55	125.55	175.55	225.55	275.55	325.55	425.55	525.55	625.55	725.55	825.55	925.55	1025.55
	v	0.0172	9.408	9.785	10.50	11.20	11.89	12.57	13.93	15.27	16.60	17.94	19.27	20.62	21.95	23.28	24.61
	h	243.38	1172.0	1185.9	1211.1	1235.8	1259.1	1283.0	1331.3	1380.1	1429.4	1479.4	1530.5	1582.1	1634.7	1687.5	1740.0
	s	0.4019	1.6668	1.6854	1.7175	1.7471	1.7734	1.7990	1.8468	1.8908	1.9315	1.9697	2.0059	2.0401	2.0728	2.1050	2.1368
50 (281.01)	Sh			18.99	68.99	118.99	168.99	218.99	268.99	318.99	418.99	518.99	618.99	718.99	818.99	918.99	1018.99
	v	0.0173	8.522	8.777	9.430	10.06	10.69	11.30	12.53	13.74	14.93	16.14	17.34	18.55	19.75	20.95	22.15
	h	250.09	1174.0	1184.6	1210.3	1235.2	1258.6	1282.6	1331.0	1379.9	1429.3	1479.3	1530.4	1582.0	1634.6	1687.5	1740.0
	s	0.4110	1.6583	1.6724	1.7051	1.7349	1.7613	1.7870	1.8349	1.8790	1.9198	1.9580	1.9942	2.0284	2.0611	2.0933	2.1250
55 (287.07)	Sh			12.93	62.93	112.93	162.93	212.93	262.93	312.93	412.93	512.93	612.93	712.93	812.93	912.93	1012.93
	v	0.0173	7.792	7.950	8.553	9.130	9.703	10.26	11.38	12.48	13.57	14.67	15.76	16.86	17.95	19.04	20.13
	h	256.30	1175.8	1183.2	1209.4	1234.6	1258.2	1282.2	1330.7	1379.7	1429.1	1479.2	1530.3	1581.9	1634.5	1687.5	1740.0
	s	0.4193	1.6506	1.6604	1.6938	1.7240	1.7507	1.7764	1.8244	1.8685	1.9093	1.9475	1.9837	2.0179	2.0512	2.0835	2.1158
60 (292.71)	Sh			7.29	57.29	107.29	157.29	207.29	257.29	307.29	407.29	507.29	607.29	707.29	807.29	907.29	1007.29
	v	0.0174	7.179	7.260	7.821	8.353	8.882	9.398	10.42	11.44	12.44	13.44	14.44	15.45	16.45	17.46	18.46
	h	262.10	1177.5	1181.8	1208.5	1234.0	1257.7	1281.8	1330.4	1379.5	1428.9	1478.9	1530.0	1581.8	1634.4	1687.5	1740.0
	s	0.4271	1.6437	1.6494	1.6834	1.7139	1.7407	1.7665	1.8146	1.8588	1.8996	1.9378	1.9741	2.0083	2.0410	2.0733	2.1056
65 (297.97)	Sh			2.03	52.03	102.03	152.03	202.03	252.03	302.03	402.03	502.03	602.03	702.03	802.03	902.03	1002.03
	v	0.0174	6.654	6.674	7.202	7.696	8.187	8.665	9.614	10.55	11.48	12.40	13.33	14.26	15.19	16.12	17.05
	h	267.51	1179.1	1180.4	1207.6												

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)	Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT														
			340°	360°	380°	400°	420°	450°	500°	600°	700°	800°	900°	1000°	1100°	1200°	
80 (312.03)	Sh		27.97	47.97	67.97	87.97	107.97	137.97	187.97	287.97	387.97	487.97	587.97	687.97	787.97	887.97	
	v	0.0176	5.476	5.720	5.889	6.055	6.217	6.384	6.623	7.015	7.793	8.558	9.313	10.07	10.82	11.58	12.33
	h	282.02	1183.1	1200.0	1211.0	1221.2	1231.5	1240.3	1255.7	1280.2	1329.3	1378.5	1428.2	1478.4	1529.7	1581.4	1634.1
	s	0.4532	1.6209	1.6424	1.6560	1.6683	1.6804	1.6905	1.7077	1.7339	1.7825	1.8268	1.8679	1.9062	1.9426	1.9768	2.0095
85 (316.25)	Sh		23.75	43.75	63.75	83.75	103.75	133.75	183.75	283.75	383.75	483.75	583.75	683.75	783.75	883.75	
	v	0.0176	5.169	5.368	5.528	5.685	5.839	5.995	6.226	6.594	7.329	8.050	8.762	9.472	10.18	10.90	11.61
	h	286.40	1184.3	1198.5	1210.0	1220.5	1230.7	1239.7	1255.1	1279.7	1329.0	1378.3	1428.0	1478.2	1529.6	1581.3	1634.0
	s	0.4587	1.6159	1.6339	1.6481	1.6608	1.6728	1.6831	1.7003	1.7266	1.7754	1.8198	1.8609	1.8992	1.9357	1.9699	2.0026
90 (320.27)	Sh		19.73	39.73	59.73	79.73	99.73	129.73	179.73	279.73	379.73	479.73	579.73	679.73	779.73	879.73	
	v	0.0177	4.898	5.055	5.208	5.357	5.504	5.653	5.869	6.220	6.916	7.599	8.272	8.943	9.626	10.29	10.96
	h	290.57	1185.4	1197.3	1209.0	1219.8	1230.0	1239.1	1254.5	1279.3	1328.4	1377.8	1427.9	1478.1	1529.5	1581.2	1634.0
	s	0.4641	1.6113	1.6264	1.6408	1.6538	1.6658	1.6763	1.6935	1.7200	1.7689	1.8134	1.8546	1.8929	1.9294	1.9636	1.9964
95 (324.13)	Sh		15.87	35.87	55.87	75.87	95.87	125.87	175.87	275.87	375.87	475.87	575.87	675.87	775.87	875.87	
	v	0.0177	4.653	4.773	4.921	5.063	5.205	5.346	5.552	5.886	6.547	7.195	7.834	8.481	9.117	9.751	10.38
	h	294.58	1186.4	1196.0	1208.0	1219.0	1229.3	1238.6	1254.0	1278.9	1328.4	1377.8	1427.7	1478.0	1529.2	1581.1	1633.9
	s	0.4692	1.6070	1.6191	1.6339	1.6472	1.6593	1.6700	1.6872	1.7138	1.7628	1.8073	1.8485	1.8869	1.9234	1.9576	1.9904
100 (327.83)	Sh		12.17	32.17	52.17	72.17	92.17	122.17	172.17	272.17	372.17	472.17	572.17	672.17	772.17	872.17	
	v	0.0177	4.433	4.520	4.663	4.801	4.936	5.070	5.266	5.589	6.217	6.836	7.448	8.055	8.659	9.262	9.862
	h	298.43	1187.3	1194.9	1207.0	1218.3	1228.4	1238.6	1253.7	1278.6	1327.9	1377.5	1427.5	1478.0	1529.2	1581.0	1633.7
	s	0.4741	1.6028	1.6124	1.6273	1.6409	1.6528	1.6645	1.6814	1.7080	1.7568	1.8015	1.8428	1.8814	1.9177	1.9520	1.9847
105 (331.38)	Sh		8.62	28.62	48.62	68.62	88.62	118.62	168.62	268.62	368.62	468.62	568.62	668.62	768.62	868.62	
	v	0.0178	4.232	4.292	4.429	4.562	4.691	4.820	5.007	5.316	5.916	6.507	7.090	7.670	8.245	8.819	9.391
	h	302.13	1188.2	1193.5	1205.9	1217.2	1227.6	1237.5	1252.9	1278.0	1327.6	1377.4	1427.3	1477.7	1529.2	1580.9	1633.7
	s	0.4787	1.5988	1.6055	1.6208	1.6344	1.6466	1.6580	1.6752	1.7020	1.7511	1.7960	1.8372	1.8757	1.9122	1.9464	1.9791
110 (334.79)	Sh		5.21	25.21	45.21	65.21	85.21	115.21	165.21	265.21	365.21	465.21	565.21	665.21	765.21	865.21	
	v	0.0178	4.050	4.084	4.217	4.345	4.469	4.592	4.773	5.069	5.621	6.208	6.765	7.319	7.869	8.417	8.963
	h	305.69	1189.0	1192.2	1204.9	1216.4	1226.9	1236.9	1252.4	1277.5	1327.4	1377.1	1427.1	1477.5	1529.1	1580.8	1633.6
	s	0.4832	1.5950	1.5990	1.6147	1.6286	1.6410	1.6525	1.6698	1.6966	1.7460	1.7908	1.8321	1.8706	1.9072	1.9414	1.9742
115 (338.08)	Sh		21.92	41.92	61.92	81.92	111.92	161.92	261.92	361.92	461.92	561.92	661.92	761.92	861.92		
	v	0.0179	3.882	4.022	4.146	4.266	4.384	4.558	4.843	5.393	5.935	6.469	6.999	7.525	8.049	8.572	
	h	309.13	1189.8	1203.8	1215.6	1226.2	1236.3	1251.9	1277.1	1327.1	1376.9	1427.0	1477.4	1528.9	1580.7	1633.6	
	s	0.4875	1.5915	1.6088	1.6230	1.6355	1.6471	1.6645	1.6915	1.7410	1.7859	1.8273	1.8658	1.9023	1.9366	1.9695	
120 (341.26)	Sh		18.74	38.74	58.74	78.74	108.74	158.74	258.74	358.74	458.74	558.74	658.74	758.74	858.74		
	v	0.0179	3.728	3.845	3.963	4.079	4.194	4.361	4.635	5.165	5.685	6.197	6.705	7.210	7.713	8.215	
	h	312.46	1190.6	1202.7	1214.7	1225.4	1235.7	1251.4	1276.7	1326.8	1376.7	1426.8	1477.2	1528.8	1580.6	1633.5	
	s	0.4916	1.5879	1.6028	1.6173	1.6299	1.6417	1.6592	1.6863	1.7359	1.7809	1.8223	1.8608	1.8974	1.9317	1.9646	
125 (344.34)	Sh		15.66	35.66	55.66	75.66	105.66	155.66	255.66	355.66	455.66	555.66	655.66	755.66	855.66		
	v	0.0179	3.586	3.680	3.796	3.908	4.019	4.181	4.445	4.954	5.454	5.947	6.435	6.920	7.403	7.885	
	h	315.69	1191.3	1201.6	1213.7	1224.5	1235.0	1250.8	1276.3	1326.5	1376.4	1426.6	1477.1	1528.7	1580.5	1633.4	
	s	0.4956	1.5846	1.5973	1.6119	1.6246	1.6367	1.6544	1.6817	1.7314	1.7764	1.8179	1.8565	1.8931	1.9274	1.9603	
130 (347.31)	Sh		12.69	32.69	52.69	72.69	102.69	152.69	252.69	352.69	452.69	552.69	652.69	752.69	852.69		
	v	0.0180	3.455	3.528	3.641	3.750	3.857	4.013	4.268	4.760	5.242	5.716	6.186	6.653	7.117	7.581	
	h	318.81	1192.0	1200.4	1212.7	1223.6	1234.3	1250.3	1275.8	1326.1	1376.1	1426.4	1476.9	1528.6	1580.4	1633.3	
	s	0.4995	1.5815	1.5918	1.6066	1.6194	1.6317	1.6496	1.6769	1.7267	1.7718	1.8134	1.8520	1.8887	1.9230	1.9559	
135 (350.21)	Sh		9.79	29.79	49.79	69.79	99.79	149.79	249.79	349.79	449.79	549.79	649.79	749.79	849.79		
	v	0.0180	3.333	3.388	3.497	3.603	3.707	3.859	4.105	4.580	5.045	5.502	5.955	6.405	6.853	7.303	
	h	321.86	1192.7	1199.2	1211.7	1222.7	1233.6	1249.7	1275.4	1325.8	1375.9	1426.2	1476.8	1528.5	1580.3	1633.2	
	s	0.5032	1.5784	1.5864	1.6015	1.6144	1.6269	1.6449	1.6724	1.7223	1.7674	1.8090	1.8476	1.8843	1.9186	1.9515	
140 (353.03)	Sh		6.97	26.97	46.97	66.97	96.97	146.97	246.97	346.97	446.97	546.97	646.97	746.97	846.97		
	v	0.0180	3.220	3.258	3.364	3.467	3.567	3.715	3.954	4.413	4.862	5.303	5.741	6.175	6.607	7.037	
	h	324.83	1193.3	1198.0	1210.6	1221.8	1232.9	1249.1	1275.0	1325.5	1375.7	1426.0	1476.6	1528.4	1580.2	1633.2	
	s	0.5069	1.5755	1.5813	1.5965	1.6097	1.6225	1.6406	1.6683	1.7183	1.7635	1.8051	1.8437	1.8804	1.9147	1.9476	
145 (355.76)	Sh		4.24	24.24	44.24	64.24	94.24	144.24	244.24	344.24	444.24	544.24	644.24	744.24	844.24		
	v	0.0181	3.114	3.136	3.240	3.340	3.438	3.581	3.812	4.257	4.692	5.119	5.541	5.961	6.378	6.794	
	h	327.71	1193.9	1196.7	1209.5	1220.9	1232.2	1248.5	1274.5	1325.1	1375.4	1425.8	1476.5	1528.3	1580.1	1633.1	
	s	0.5104	1.5726	1.5760	1.5914	1.6048	1.6178	1.6360	1.6638	1.7139	1.7592	1.8009	1.8396	1.8763	1.9106	1.9435	
150 (358.43)	Sh		21.57	41.57	61.57	81.57	111.57	161.57	261.57	361.57	461.57	561.57	661.57	761.57	861.57		
	v	0.0181	3.016	3.124	3.221	3.317	3.456	3.681	4.112	4.533	4.946	5.355	5.761	6.164	6.567		
	h	330.53	1194.4	1208.4	1220.0	1231.4	1248.0	1274.1	1324.9	1375.1	1425.6	1476.3	1528.1	1580.0	1633.0		
	s	0.5138	1.5698	1.5865	1.6002	1.6133	1.6319	1.6598	1.7101	1.7553	1.7970	1.8357	1.8724	1.9068	1.9397		
155 (361.02)	Sh		18.98	38.98	58.98	78.98	108.98	158.98	258.98	358.98	458.98	558.98	658.98	758.98	858.98		
	v	0.01															

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)		Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT													
				400°	420°	440°	460°	480°	500°	550°	600°	700°	800°	900°	1000°	1100°	1200°
165 (366.01)	Sh			33.99	53.99	73.99	93.99	113.99	133.99	183.99	233.99	333.99	433.99	533.99	633.99	733.99	833.99
	v	0.0182	2.752	2.909	2.997	3.084	3.170	3.251	3.334	3.533	3.729	4.114	4.491	4.864	5.234	5.601	5.967
	h	338.55	1195.9	1217.4	1229.3	1241.1	1251.8	1262.4	1272.8	1298.5	1323.8	1374.5	1425.0	1475.9	1527.8	1579.6	1632.7
	s	0.5236	1.5619	1.5874	1.6011	1.6144	1.6262	1.6376	1.6486	1.6747	1.6991	1.7448	1.7865	1.8254	1.8622	1.8966	1.9295
170 (368.42)	Sh			31.58	51.58	71.58	91.58	111.58	131.58	181.58	231.58	331.58	431.58	531.58	631.58	731.58	831.58
	v	0.0182	2.674	2.816	2.903	2.988	3.071	3.151	3.232	3.426	3.617	3.991	4.357	4.720	5.079	5.436	5.791
	h	341.11	1196.3	1216.5	1228.4	1240.5	1251.3	1261.8	1272.3	1298.2	1323.5	1374.2	1424.9	1475.7	1527.6	1579.6	1632.7
	s	0.5266	1.5593	1.5832	1.5969	1.6105	1.6224	1.6337	1.6448	1.6711	1.6955	1.7412	1.7831	1.8219	1.8587	1.8931	1.9261
175 (370.77)	Sh			29.23	49.23	69.23	89.23	109.23	129.23	179.23	229.23	329.23	429.23	529.23	629.23	729.23	829.23
	v	0.0182	2.601	2.730	2.814	2.897	2.979	3.057	3.136	3.325	3.510	3.875	4.231	4.584	4.932	5.279	5.625
	h	343.61	1196.7	1215.6	1227.6	1239.9	1250.8	1261.3	1271.9	1297.8	1323.2	1374.0	1424.7	1475.6	1527.5	1579.5	1632.6
	s	0.5296	1.5569	1.5793	1.5931	1.6069	1.6189	1.6302	1.6414	1.6677	1.6922	1.7380	1.7799	1.8185	1.8553	1.8897	1.9227
180 (373.08)	Sh			26.92	46.92	66.92	86.92	106.92	126.92	176.92	226.92	326.92	426.92	526.92	626.92	726.92	826.92
	v	0.0183	2.532	2.648	2.731	2.812	2.892	2.968	3.045	3.229	3.410	3.765	4.112	4.455	4.794	5.132	5.468
	h	346.07	1197.2	1214.6	1226.8	1239.2	1250.2	1260.8	1271.5	1297.4	1322.8	1373.7	1424.5	1475.5	1527.4	1579.4	1632.5
	s	0.5325	1.5545	1.5751	1.5891	1.6030	1.6151	1.6265	1.6378	1.6641	1.6886	1.7345	1.7765	1.8154	1.8522	1.8866	1.9196
185 (375.34)	Sh			24.66	44.66	64.66	84.66	104.66	124.66	174.66	224.66	324.66	424.66	524.66	624.66	724.66	824.66
	v	0.0183	2.466	2.570	2.651	2.731	2.809	2.884	2.958	3.139	3.315	3.661	3.999	4.333	4.664	4.992	5.319
	h	348.47	1197.6	1213.7	1226.0	1238.4	1249.6	1260.3	1271.0	1297.4	1322.4	1373.4	1424.3	1475.3	1527.3	1579.3	1632.4
	s	0.5354	1.5522	1.5712	1.5853	1.5992	1.6115	1.6230	1.6343	1.6611	1.6853	1.7312	1.7733	1.8122	1.8491	1.8835	1.9165
190 (377.55)	Sh			22.45	42.45	62.45	82.45	102.45	122.45	172.45	222.45	322.45	422.45	522.45	622.45	722.45	822.45
	v	0.0183	2.404	2.496	2.576	2.654	2.731	2.804	2.877	3.053	3.225	3.563	3.893	4.218	4.540	4.860	5.179
	h	350.83	1198.0	1212.7	1225.1	1237.7	1249.0	1259.8	1270.5	1296.6	1322.1	1373.1	1424.1	1475.2	1527.1	1579.2	1632.3
	s	0.5382	1.5501	1.5674	1.5817	1.5959	1.6083	1.6199	1.6312	1.6577	1.6823	1.7282	1.7703	1.8093	1.8461	1.8806	1.9136
195 (379.70)	Sh			20.30	40.30	60.30	80.30	100.30	120.30	170.30	220.30	320.30	420.30	520.30	620.30	720.30	820.30
	v	0.0184	2.344	2.426	2.505	2.581	2.656	2.728	2.799	2.972	3.140	3.470	3.791	4.109	4.423	4.735	5.046
	h	353.13	1198.4	1211.7	1224.2	1237.0	1248.3	1259.3	1270.0	1296.2	1321.8	1372.9	1423.9	1475.0	1527.0	1579.1	1632.2
	s	0.5409	1.5479	1.5636	1.5780	1.5924	1.6048	1.6166	1.6279	1.6545	1.6792	1.7252	1.7673	1.8063	1.8432	1.8777	1.9107
200 (381.82)	Sh			18.18	38.18	58.18	78.18	98.18	118.18	168.18	218.18	318.18	418.18	518.18	618.18	718.18	818.18
	v	0.0184	2.288	2.360	2.437	2.512	2.585	2.656	2.726	2.895	3.059	3.381	3.697	4.005	4.311	4.616	4.919
	h	355.40	1198.7	1210.8	1223.7	1236.3	1247.9	1258.7	1269.4	1295.6	1321.4	1372.5	1423.9	1474.9	1526.6	1579.0	1632.1
	s	0.5436	1.5457	1.5599	1.5748	1.5889	1.6017	1.6133	1.6245	1.6511	1.6761	1.7221	1.7646	1.8035	1.8402	1.8749	1.9079
205 (383.89)	Sh			16.11	36.11	56.11	76.11	96.11	116.11	166.11	216.11	316.11	416.11	516.11	616.11	716.11	816.11
	v	0.0184	2.235	2.297	2.372	2.446	2.518	2.587	2.656	2.821	2.982	3.297	3.604	3.906	4.205	4.502	4.798
	h	357.61	1199.0	1209.7	1222.5	1235.4	1247.1	1258.2	1269.0	1295.4	1321.0	1372.4	1423.5	1474.7	1526.8	1578.9	1632.1
	s	0.5462	1.5436	1.5562	1.5709	1.5854	1.5983	1.6102	1.6216	1.6484	1.6731	1.7194	1.7616	1.8007	1.8377	1.8722	1.9052
210 (385.93)	Sh			14.07	34.07	54.07	74.07	94.07	114.07	164.07	214.07	314.07	414.07	514.07	614.07	714.07	814.07
	v	0.0184	2.183	2.237	2.311	2.384	2.454	2.522	2.589	2.751	2.909	3.216	3.516	3.812	4.104	4.395	4.683
	h	359.80	1199.4	1208.8	1221.8	1234.7	1246.5	1257.7	1268.5	1295.0	1320.7	1372.1	1423.3	1474.6	1526.6	1578.8	1632.0
	s	0.5488	1.5417	1.5527	1.5676	1.5821	1.5951	1.6071	1.6185	1.6454	1.6702	1.7165	1.7588	1.7980	1.8349	1.8695	1.9025
215 (387.93)	Sh			12.07	32.07	52.07	72.07	92.07	112.07	162.07	212.07	312.07	412.07	512.07	612.07	712.07	812.07
	v	0.0185	2.134	2.179	2.252	2.324	2.393	2.460	2.526	2.685	2.839	3.140	3.433	3.722	4.008	4.292	4.574
	h	361.95	1199.6	1207.8	1221.0	1234.0	1245.9	1257.2	1268.0	1294.6	1320.4	1371.9	1423.1	1474.4	1526.5	1578.7	1631.9
	s	0.5513	1.5395	1.5491	1.5643	1.5789	1.5920	1.6042	1.6156	1.6426	1.6675	1.7139	1.7562	1.7954	1.8324	1.8670	1.9000
220 (389.89)	Sh			10.11	30.11	50.11	70.11	90.11	110.11	160.11	210.11	310.11	410.11	510.11	610.11	710.11	810.11
	v	0.0185	2.086	2.124	2.196	2.267	2.335	2.400	2.465	2.621	2.772	3.067	3.354	3.637	3.916	4.193	4.469
	h	364.05	1199.9	1206.8	1220.1	1233.2	1245.2	1256.7	1267.5	1294.1	1320.0	1371.6	1422.9	1474.2	1526.4	1578.6	1631.8
	s	0.5538	1.5376	1.5457	1.5610	1.5757	1.5889	1.6013	1.6127	1.6397	1.6647	1.7112	1.7536	1.7928	1.8298	1.8644	1.8974
225 (391.81)	Sh			8.19	28.19	48.19	68.19	88.19	108.19	158.19	208.19	308.19	408.19	508.19	608.19	708.19	808.19
	v	0.0185	2.042	2.072	2.142	2.212	2.279	2.344	2.407	2.560	2.708	2.997	3.278	3.555	3.828	4.100	4.369
	h	366.11	1200.2	1205.8	1219.2	1232.3	1244.5	1256.2	1267.1	1293.7	1319.6	1371.4	1422.7	1474.1	1526.3	1578.5	1631.7
	s	0.5562	1.5358	1.5423	1.5577	1.5724	1.5858	1.5984	1.6099	1.6369	1.6619	1.7086	1.7510	1.7902	1.8272	1.8618	1.8948
230 (393.70)	Sh			6.30	26.30	46.30	66.30	86.30	106.30	156.30	206.30	306.30	406.30	506.30	606.30	706.30	806.30
	v	0.0186	1.9989	2.021	2.091	2.160	2.226	2.289	2.352	2.502	2.647	2.930	3.205	3.477	3.744	4.010	4.274
	h	368.16	1200.4	1204.9	1218.3	1231.6	1243.8	1255.6	1266.7	1293.3	1319.3	1371.1	1422.5	1474.0	1526.2	1578.4	1631.6
	s	0.5585	1.5337	1.5390	1.5544	1.5693	1.5827	1.5954	1.6071	1.6341	1.6592	1.7059	1.7484	1.7877	1.8247	1.8593	1.8923
235 (395.56)	Sh			4.44	24.44	44.44	64.44	84.44	104.44	154.44	204.44	304.44	404.44	504.44	604.44	704.44	804.44
	v	0.0186	1.9573	1.973	2.042	2.110	2.175	2.237	2.298	2.446	2.589	2.866	3.136	3.402	3.664	3.924	4.182
	h	370.17	1200.7	1203.9	1217.5	1230.8	1243.2	1255.0	1266.2	1292.9	1						

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)		Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT													
				420°	440°	460°	480°	500°	520°	550°	600°	700°	800°	900°	1000°	1100°	1200°
250 (400.97)	Sh			19.03	39.03	59.03	79.03	99.03	119.03	149.03	199.03	299.03	399.03	499.03	599.03	699.03	799.03
	v	0.0187	1.8431	1.9065	1.9711	2.0334	2.0932	2.1515	2.2085	2.2920	2.4272	2.6897	2.9444	3.1949	3.4416	3.6867	3.9299
	h	376.04	1201.4	1214.6	1228.3	1241.0	1253.2	1264.7	1274.5	1291.6	1317.9	1370.0	1421.7	1473.3	1525.6	1578.0	1631.3
	s	0.5677	1.5267	1.5419	1.5573	1.5713	1.5844	1.5965	1.6066	1.6238	1.6492	1.6961	1.7388	1.7782	1.8153	1.8500	1.8831
255 (402.71)	Sh			17.29	37.29	57.29	77.29	97.29	117.29	147.29	197.29	297.29	397.29	497.29	597.29	697.29	797.29
	v	0.0187	1.8079	1.8686	1.9286	1.9899	2.0489	2.1065	2.1626	2.2447	2.3776	2.6354	2.8855	3.1313	3.3733	3.6138	3.8524
	h	377.91	1201.6	1213.7	1227.5	1240.3	1252.6	1264.2	1274.2	1291.2	1317.5	1369.8	1421.5	1473.2	1525.5	1577.9	1631.2
	s	0.5698	1.5249	1.5388	1.5543	1.5684	1.5816	1.5938	1.6041	1.6212	1.6466	1.6937	1.7364	1.7759	1.8130	1.8477	1.8808
260 (404.43)	Sh			15.57	35.57	55.57	75.57	95.57	115.57	145.57	195.57	295.57	395.57	495.57	595.57	695.57	795.57
	v	0.0187	1.7742	1.8246	1.8876	1.9482	2.0063	2.0631	2.1185	2.1991	2.3299	2.5833	2.8289	3.0701	3.3077	3.5437	3.7778
	h	379.78	1201.8	1212.8	1226.6	1239.5	1252.0	1263.6	1273.8	1290.8	1317.1	1369.5	1421.3	1473.0	1525.4	1577.8	1631.1
	s	0.5720	1.5233	1.5359	1.5514	1.5656	1.5790	1.5912	1.6017	1.6188	1.6442	1.6914	1.7342	1.7737	1.8109	1.8456	1.8787
265 (406.12)	Sh			13.88	33.88	53.88	73.88	93.88	113.88	143.88	193.88	293.88	393.88	493.88	593.88	693.88	793.88
	v	0.0187	1.7416	1.7858	1.8481	1.9080	1.9654	2.0213	2.0759	2.1554	2.2840	2.5331	2.7744	3.0114	3.2446	3.4738	3.7061
	h	381.62	1202.0	1211.9	1225.7	1238.7	1251.2	1263.0	1273.4	1290.4	1316.8	1369.3	1421.1	1472.9	1525.3	1577.7	1631.1
	s	0.5741	1.5217	1.5330	1.5485	1.5628	1.5762	1.5886	1.5993	1.6164	1.6419	1.6892	1.7320	1.7715	1.8087	1.8434	1.8765
270 (407.79)	Sh			12.21	32.21	52.21	72.21	92.21	112.21	142.21	192.21	292.21	392.21	492.21	592.21	692.21	792.21
	v	0.0188	1.7101	1.7486	1.8101	1.8692	1.9259	1.9810	2.0350	2.1131	2.2399	2.4847	2.7219	2.9548	3.1838	3.4112	3.6370
	h	383.43	1202.2	1211.0	1224.9	1238.0	1250.6	1262.5	1273.0	1290.0	1316.4	1369.0	1420.9	1472.7	1525.1	1577.6	1631.0
	s	0.5761	1.5200	1.5301	1.5457	1.5601	1.5736	1.5861	1.5969	1.6140	1.6395	1.6869	1.7298	1.7693	1.8065	1.8413	1.8744
275 (409.44)	Sh			10.56	30.56	50.56	70.56	90.56	110.56	140.56	190.56	290.56	390.56	490.56	590.56	690.56	790.56
	v	0.0188	1.6798	1.7127	1.7735	1.8318	1.8879	1.9422	1.9956	2.0725	2.1973	2.4382	2.6714	2.9002	3.1253	3.3486	3.5704
	h	385.22	1202.3	1210.0	1224.1	1237.3	1250.0	1262.0	1272.6	1289.5	1316.1	1368.7	1420.7	1472.6	1525.0	1577.5	1630.9
	s	0.5782	1.5183	1.5271	1.5429	1.5574	1.5711	1.5837	1.5946	1.6116	1.6373	1.6847	1.7277	1.7673	1.8045	1.8393	1.8724
280 (411.06)	Sh			8.94	28.94	48.94	68.94	88.94	108.94	138.94	188.94	288.94	388.94	488.94	588.94	688.94	788.94
	v	0.0188	1.6504	1.6780	1.7381	1.7957	1.8512	1.9048	1.9575	2.0334	2.1562	2.3932	2.6226	2.8475	3.0688	3.2883	3.5062
	h	386.99	1202.5	1209.0	1223.2	1236.5	1249.4	1261.5	1272.2	1289.1	1315.7	1368.5	1420.5	1472.4	1524.9	1577.4	1630.8
	s	0.5802	1.5167	1.5241	1.5401	1.5547	1.5686	1.5813	1.5923	1.6093	1.6350	1.6826	1.7256	1.7652	1.8024	1.8372	1.8703
285 (412.66)	Sh			7.34	27.34	47.34	67.34	87.34	107.34	137.34	187.34	287.34	387.34	487.34	587.34	687.34	787.34
	v	0.0188	1.6232	1.6446	1.7040	1.7610	1.8157	1.8687	1.9207	1.9955	2.1165	2.3499	2.5756	2.7968	3.0143	3.2300	3.4443
	h	388.74	1202.7	1208.0	1222.3	1235.6	1248.7	1260.9	1271.8	1288.6	1315.4	1368.2	1420.3	1472.2	1524.7	1577.3	1630.7
	s	0.5822	1.5153	1.5214	1.5375	1.5521	1.5662	1.5790	1.5902	1.6071	1.6330	1.6806	1.7237	1.7633	1.8005	1.8353	1.8684
290 (414.24)	Sh			5.76	25.76	45.76	65.76	85.76	105.76	135.76	185.76	285.76	385.76	485.76	585.76	685.76	785.76
	v	0.0189	1.5947	1.6122	1.6710	1.7273	1.7815	1.8338	1.8863	1.9590	2.0783	2.3080	2.5302	2.7478	2.9616	3.1738	3.3844
	h	390.47	1202.9	1207.0	1221.4	1234.8	1248.0	1260.4	1271.4	1288.2	1315.0	1367.9	1420.1	1472.1	1524.6	1577.2	1630.6
	s	0.5841	1.5137	1.5184	1.5346	1.5493	1.5635	1.5766	1.5879	1.6048	1.6307	1.6784	1.7215	1.7612	1.7984	1.8332	1.8663
295 (415.80)	Sh			4.20	24.20	44.20	64.20	84.20	104.20	134.20	184.20	284.20	384.20	484.20	584.20	684.20	784.20
	v	0.0189	1.5684	1.5809	1.6391	1.6948	1.7484	1.8001	1.8510	1.9236	2.0413	2.2677	2.4863	2.7004	2.9108	3.1195	3.3267
	h	392.17	1203.0	1206.1	1220.5	1234.0	1247.4	1259.8	1271.0	1287.8	1314.7	1367.6	1419.9	1472.0	1524.5	1577.1	1630.5
	s	0.5861	1.5122	1.5157	1.5319	1.5467	1.5611	1.5742	1.5857	1.6026	1.6286	1.6763	1.7195	1.7593	1.7965	1.8313	1.8644
300 (417.33)	Sh			2.67	22.67	42.67	62.67	82.67	102.67	132.67	182.67	282.67	382.67	482.67	582.67	682.67	782.67
	v	0.0189	1.5426	1.5506	1.6082	1.6634	1.7164	1.7677	1.8172	1.8896	2.0056	2.2286	2.4447	2.6547	2.8634	3.0670	3.2707
	h	393.85	1203.2	1205.2	1219.5	1233.4	1246.6	1259.2	1270.5	1287.4	1314.4	1367.4	1419.7	1471.8	1524.4	1577.0	1630.4
	s	0.5879	1.5107	1.5130	1.5291	1.5443	1.5585	1.5718	1.5834	1.6004	1.6265	1.6742	1.7175	1.7572	1.7945	1.8294	1.8625
310 (420.35)	Sh			19.65	39.65	59.65	79.65	99.65	119.65	149.65	199.65	299.65	399.65	499.65	599.65	699.65	799.65
	v	0.0189	1.4938	1.5495	1.6036	1.6555	1.7054	1.7546	1.8246	1.9375	2.1541	2.3631	2.5675	2.7682	2.9671	3.1645	
	h	397.16	1203.5	1217.8	1231.5	1245.3	1258.0	1269.6	1286.4	1313.5	1366.9	1419.3	1471.5	1524.1	1576.8	1630.3	
	s	0.5917	1.5079	1.5240	1.5391	1.5539	1.5673	1.5793	1.5962	1.6224	1.6705	1.7138	1.7536	1.7909	1.8258	1.8590	
320 (423.29)	Sh			16.71	36.71	56.71	76.71	96.71	116.71	146.71	196.71	296.71	396.71	496.71	596.71	696.71	796.71
	v	0.0190	1.4479	1.4943	1.5473	1.5982	1.6472	1.6954	1.7637	1.8737	2.0844	2.2874	2.4857	2.6804	2.8735	3.0648	
	h	400.40	1203.8	1216.0	1229.9	1244.0	1256.8	1268.6	1285.6	1312.8	1366.3	1418.9	1471.2	1523.8	1576.6	1630.1	
	s	0.5953	1.5052	1.5189	1.5342	1.5494	1.5629	1.5751	1.5922	1.6185	1.6667	1.7102	1.7501	1.7874	1.8224	1.8556	
330 (426.16)	Sh			13.84	33.84	53.84	73.84	93.84	123.84	173.84	273.84	373.84	473.84	573.84	673.84	773.84	
	v	0.0190	1.4048	1.4424	1.4944	1.5445	1.5925	1.6397	1.7064	1.8138	2.0189	2.2163	2.4090	2.5981	2.7855	2.9712	
	h	403.56	1204.0	1214.1	1228.2	1242.5	1255.5	1267.6	1284.7	1312.1	1365.8	1418.4	1470.8	1523.6	1576.4	1630.0	
	s	0.5988	1.5023	1.5136	1.5291	1.5445	1.5582	1.5707	1.5879	1.6144	1.6628	1.7063	1.7463	1.7837	1.8187	1.8520	
340 (428.96)	Sh			11.04	31.04	51.04	71.04	91.04	121.04	171.04	271.04	371.04	471.04	571.04	671.04	771.04	
	v	0.0191	1.3640	1.3935	1.4446	1.4936	1.5409	1.5872	1.6525	1.7573	1.9572	2.1493	2.3368	2.5206	2.7027	2.8831	
	h	406.65	1204.2	1212.2													

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)	Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT														
			460°	480°	500°	520°	540°	560°	580°	600°	700°	800°	900°	1000°	1100°	1200°	
370 (437.01)	Sh		22.99	42.99	62.99	82.99	102.99	122.99	142.99	162.99	262.99	362.99	462.99	562.99	662.99	762.99	
	v	0.0192	1.2545	1.3111	1.3579	1.4028	1.4466	1.4881	1.5286	1.5675	1.6063	1.7921	1.9703	2.1435	2.3131	2.4809	2.6471
	s	0.6122	1.4921	1.5106	1.5268	1.5412	1.5548	1.5667	1.5781	1.5894	1.5997	1.6488	1.6928	1.7331	1.7706	1.8058	1.8391
380 (439.59)	Sh		20.41	40.41	60.41	80.41	100.41	120.41	140.41	160.41	260.41	360.41	460.41	560.41	660.41	760.41	
	v	0.0193	1.2217	1.2711	1.3173	1.3614	1.4045	1.4452	1.4850	1.5232	1.5612	1.7428	1.9168	2.0859	2.2512	2.4148	2.5768
	s	0.6154	1.4897	1.5063	1.5226	1.5371	1.5510	1.5630	1.5747	1.5859	1.5963	1.6455	1.6896	1.7299	1.7675	1.8027	1.8361
390 (442.11)	Sh		17.89	37.89	57.89	77.89	97.89	117.89	137.89	157.89	257.89	357.89	457.89	557.89	657.89	757.89	
	v	0.0193	1.1904	1.2332	1.2788	1.3222	1.3647	1.4046	1.4436	1.4812	1.5184	1.6961	1.8661	2.0311	2.1925	2.3521	2.5101
	s	0.6184	1.4872	1.5017	1.5183	1.5330	1.5472	1.5593	1.5711	1.5824	1.5929	1.6423	1.6865	1.7269	1.7646	1.7998	1.8332
400 (444.58)	Sh		15.42	35.42	55.42	75.42	95.42	115.42	135.42	155.42	255.42	355.42	455.42	555.42	655.42	755.42	
	v	0.0193	1.1609	1.1972	1.2422	1.2849	1.3269	1.3660	1.4042	1.4413	1.4777	1.6522	1.8179	1.9796	2.1367	2.2926	2.4475
	s	0.6215	1.4850	1.4977	1.5140	1.5290	1.5434	1.5561	1.5678	1.5790	1.5897	1.6393	1.6835	1.7240	1.7615	1.7968	1.8304
410 (447.00)	Sh		13.00	33.00	53.00	73.00	93.00	113.00	133.00	153.00	253.00	353.00	453.00	553.00	653.00	753.00	
	v	0.0194	1.1327	1.1628	1.2071	1.2494	1.2906	1.3291	1.3669	1.4033	1.4390	1.6095	1.7722	1.9297	2.0837	2.2359	2.3864
	s	0.6244	1.4828	1.4933	1.5101	1.5252	1.5399	1.5524	1.5646	1.5759	1.5865	1.6362	1.6806	1.7212	1.7589	1.7943	1.8277
420 (449.38)	Sh		10.62	30.62	50.62	70.62	90.62	110.62	130.62	150.62	250.62	350.62	450.62	550.62	650.62	750.62	
	v	0.0194	1.1058	1.1300	1.1738	1.2156	1.2561	1.2942	1.3312	1.3671	1.4021	1.5693	1.7285	1.8826	2.0332	2.1819	2.3290
	s	0.6273	1.4805	1.4892	1.5060	1.5213	1.5361	1.5489	1.5612	1.5726	1.5832	1.6331	1.6776	1.7184	1.7561	1.7915	1.8249
430 (451.72)	Sh		8.28	28.28	48.28	68.28	88.28	108.28	128.28	148.28	248.28	348.28	448.28	548.28	648.28	748.28	
	v	0.0195	1.0800	1.0986	1.1419	1.1834	1.2233	1.2607	1.2972	1.3326	1.3670	1.5309	1.6869	1.8377	1.9850	2.1305	2.2742
	s	0.6302	1.4782	1.4850	1.5020	1.5175	1.5326	1.5455	1.5581	1.5695	1.5801	1.6303	1.6748	1.7156	1.7534	1.7888	1.8222
440 (454.01)	Sh		5.99	25.99	45.99	65.99	85.99	105.99	125.99	145.99	245.99	345.99	445.99	545.99	645.99	745.99	
	v	0.0195	1.0554	1.0688	1.1116	1.1524	1.1918	1.2288	1.2648	1.2996	1.3334	1.4943	1.6472	1.7949	1.9390	2.0814	2.2220
	s	0.6330	1.4762	1.4812	1.4981	1.5138	1.5291	1.5422	1.5550	1.5664	1.5772	1.6275	1.6722	1.7130	1.7508	1.7862	1.8197
450 (456.27)	Sh		3.73	23.73	43.73	63.73	83.73	103.73	123.73	143.73	243.73	343.73	443.73	543.73	643.73	743.73	
	v	0.0195	1.0318	1.0401	1.0824	1.1230	1.1617	1.1982	1.2337	1.2681	1.3013	1.4593	1.6092	1.7539	1.8951	2.0345	2.1720
	s	0.6357	1.4739	1.4771	1.4941	1.5099	1.5255	1.5387	1.5517	1.5632	1.5740	1.6245	1.6694	1.7103	1.7481	1.7836	1.8171
460 (458.48)	Sh		21.52	41.52	61.52	81.52	101.52	121.52	141.52	161.52	261.52	361.52	461.52	561.52	661.52	761.52	
	v	0.0196	1.0092	1.0545	1.0946	1.1329	1.1690	1.2039	1.2379	1.2706	1.4258	1.5729	1.7147	1.8530	1.9896	2.1243	
	s	0.6384	1.4719	1.4902	1.5062	1.5220	1.5354	1.5485	1.5602	1.5710	1.6217	1.6667	1.7076	1.7455	1.7811	1.8146	
470 (460.66)	Sh		19.34	39.34	59.34	79.34	99.34	119.34	139.34	159.34	259.34	359.34	459.34	559.34	659.34	759.34	
	v	0.0196	0.9875	1.0278	1.0676	1.1053	1.1410	1.1755	1.2091	1.2412	1.3937	1.5381	1.6772	1.8127	1.9466	2.0785	
	s	0.6411	1.4699	1.4862	1.5025	1.5185	1.5321	1.5453	1.5570	1.5680	1.6189	1.6639	1.7050	1.7429	1.7785	1.8120	
480 (462.80)	Sh		17.20	37.20	57.20	77.20	97.20	117.20	137.20	157.20	257.20	357.20	457.20	557.20	657.20	757.20	
	v	0.0197	0.9668	1.0021	1.0416	1.0789	1.1141	1.1482	1.1813	1.2131	1.3630	1.5049	1.6413	1.7742	1.9054	2.0347	
	s	0.6436	1.4679	1.4825	1.4989	1.5151	1.5288	1.5422	1.5539	1.5650	1.6161	1.6612	1.7023	1.7402	1.7758	1.8093	
490 (464.91)	Sh		15.09	35.09	55.09	75.09	95.09	115.09	135.09	155.09	255.09	355.09	455.09	555.09	655.09	755.09	
	v	0.0197	0.9466	0.9774	1.0166	1.0535	1.0884	1.1220	1.1548	1.1860	1.3335	1.4729	1.5067	1.7371	1.8659	1.9927	
	s	0.6462	1.4659	1.4789	1.4954	1.5116	1.5256	1.5392	1.5511	1.5622	1.6135	1.6588	1.6999	1.7379	1.7736	1.8071	
500 (467.00)	Sh		13.00	33.00	53.00	73.00	93.00	113.00	133.00	153.00	253.00	353.00	453.00	553.00	653.00	753.00	
	v	0.0197	0.9274	0.9538	0.9926	1.0290	1.0636	1.0969	1.1292	1.1600	1.3051	1.4417	1.5735	1.7016	1.8280	1.9532	
	s	0.6488	1.4641	1.4752	1.4922	1.5079	1.5225	1.5363	1.5482	1.5596	1.6110	1.6564	1.6975	1.7356	1.7714	1.8052	
510 (469.05)	Sh		10.95	30.95	50.95	70.95	90.95	110.95	130.95	150.95	250.95	350.95	450.95	550.95	650.95	750.95	
	v	0.0198	0.9090	0.9310	0.9695	1.0056	1.0397	1.0727	1.1046	1.1350	1.2780	1.4127	1.5418	1.6675	1.7915	1.9135	
	s	0.6513	1.4621	1.4714	1.4883	1.5048	1.5192	1.5332	1.5454	1.5566	1.6082	1.6538	1.6951	1.7332	1.7689	1.8026	
520 (471.07)	Sh		8.93	28.93	48.93	68.93	88.93	108.93	128.93	148.93	248.93	348.93	448.93	548.93	648.93	748.93	
	v	0.0198	0.8912	0.9091	0.9472	0.9829	1.0169	1.0494	1.0810	1.1110	1.2519	1.3844	1.5113	1.6347	1.7565	1.8763	
	s	0.6537	1.4601	1.4677	1.4849	1.5015	1.5160	1.5302	1.5425	1.5539	1.6057	1.6514	1.6928	1.7310	1.7668	1.8005	
530 (473.05)	Sh		6.95	26.95	46.95	66.95	86.95	106.95	126.95	146.95	246.95	346.95	446.95	546.95	646.95	746.95	
	v	0.0199	0.8741	0.8879	0.9258	0.9612	0.9948	1.0269	1.0582	1.0878	1.2267	1.3571	1.4818	1.6031	1.7228	1.8402	
	s	0.6562	1.4584	1.4642	1.4816	1.4984	1.5130	1.5274	1.5400	1.5514	1.6035	1.6493	1.6908	1.7290	1.7648	1.7985	

Sh = superheat, deg. F.
v = specific volume, cu. ft. per lb.

h = enthalpy, B.t.u. per lb.
s = entropy, B.t.u. per deg. F. per lb.

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)		Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT													
				500°	520°	540°	560°	580°	600°	650°	700°	750°	800°	900°	1000°	1100°	1200°
540 (475.02)	Sh			24.98	44.98	64.98	84.98	104.98	124.98	174.98	224.98	274.98	324.98	424.98	524.98	624.98	724.98
	v	0.0199	0.8576	0.9051	0.9401	0.9736	1.0054	1.0363	1.0655	1.1356	1.2025	1.2671	1.3309	1.4535	1.5727	1.6903	1.8056
	h	458.62	1204.5	1225.0	1241.4	1256.1	1270.7	1283.8	1296.0	1325.6	1354.0	1382.1	1409.6	1463.9	1517.8	1572.0	1626.2
	s	0.6585	1.4565	1.4781	1.4950	1.5098	1.5243	1.5370	1.5486	1.5759	1.6009	1.6246	1.6469	1.6884	1.7266	1.7625	1.7962
550 (476.94)	Sh			23.06	43.06	63.06	83.06	103.06	123.06	173.06	223.06	273.06	323.06	423.06	523.06	623.06	723.06
	v	0.0199	0.8416	0.8851	0.9198	0.9530	0.9846	1.0151	1.0441	1.1132	1.1791	1.2428	1.3055	1.4262	1.5434	1.6590	1.7724
	h	460.83	1204.4	1223.4	1240.0	1254.8	1269.6	1282.9	1295.2	1324.9	1353.5	1381.6	1409.2	1463.6	1517.5	1571.7	1626.0
	s	0.6609	1.4548	1.4748	1.4919	1.5068	1.5215	1.5344	1.5461	1.5735	1.5987	1.6224	1.6447	1.6862	1.7244	1.7603	1.7940
560 (478.85)	Sh			21.15	41.15	61.15	81.15	101.15	121.15	171.15	221.15	271.15	321.15	421.15	521.15	621.15	721.15
	v	0.0200	0.8263	0.8658	0.9003	0.9332	0.9644	0.9947	1.0233	1.0917	1.1566	1.2193	1.2810	1.3998	1.5151	1.6289	1.7403
	h	463.04	1204.3	1221.8	1238.5	1253.5	1268.5	1282.0	1294.4	1324.2	1352.9	1381.1	1408.7	1462.9	1517.2	1571.5	1625.8
	s	0.6632	1.4530	1.4714	1.4886	1.5038	1.5187	1.5318	1.5436	1.5711	1.5964	1.6202	1.6425	1.6841	1.7224	1.7584	1.7921
570 (480.73)	Sh			19.27	39.27	59.27	79.27	99.27	119.27	169.27	219.27	269.27	319.27	419.27	519.27	619.27	719.27
	v	0.0200	0.8114	0.8472	0.8814	0.9141	0.9450	0.9749	1.0033	1.0708	1.1348	1.1966	1.2575	1.3744	1.4879	1.5998	1.7093
	h	465.22	1204.1	1220.2	1236.9	1252.2	1267.3	1281.0	1293.5	1323.5	1352.3	1380.6	1408.3	1462.9	1517.0	1571.3	1625.6
	s	0.6655	1.4512	1.4681	1.4853	1.5008	1.5156	1.5291	1.5410	1.5686	1.5940	1.6179	1.6403	1.6820	1.7204	1.7564	1.7901
580 (482.58)	Sh			17.42	37.42	57.42	77.42	97.42	117.42	167.42	217.42	267.42	317.42	417.42	517.42	617.42	717.42
	v	0.0201	0.7968	0.8291	0.8631	0.8956	0.9263	0.9558	0.9839	1.0506	1.1137	1.1747	1.2347	1.3498	1.4616	1.5714	1.6794
	h	467.37	1204.0	1218.6	1235.5	1250.9	1266.1	1280.0	1292.6	1322.8	1351.6	1380.0	1407.8	1462.5	1516.7	1571.0	1625.4
	s	0.6677	1.4494	1.4648	1.4822	1.4978	1.5128	1.5264	1.5384	1.5662	1.5916	1.6156	1.6381	1.6799	1.7183	1.7543	1.7881
590 (484.41)	Sh			15.59	35.59	55.59	75.59	95.59	115.59	165.59	215.59	265.59	315.59	415.59	515.59	615.59	715.59
	v	0.0201	0.7831	0.8116	0.8455	0.8778	0.9082	0.9373	0.9653	1.0310	1.0934	1.1535	1.2128	1.3262	1.4360	1.5442	1.6505
	h	469.50	1203.8	1217.0	1234.0	1249.6	1265.0	1278.9	1291.8	1322.1	1351.1	1379.5	1407.4	1462.2	1516.4	1570.8	1625.3
	s	0.6699	1.4477	1.4616	1.4791	1.4949	1.5101	1.5236	1.5359	1.5638	1.5894	1.6134	1.6360	1.6778	1.7162	1.7522	1.7861
600 (486.21)	Sh			13.79	33.79	53.79	73.79	93.79	113.79	163.79	213.79	263.79	313.79	413.79	513.79	613.79	713.79
	v	0.0201	0.7695	0.7945	0.8284	0.8605	0.8907	0.9194	0.9471	1.0123	1.0738	1.1332	1.1915	1.3032	1.4115	1.5179	1.6224
	h	471.59	1203.6	1215.6	1232.5	1248.3	1263.7	1278.1	1290.9	1321.4	1350.5	1379.0	1407.0	1461.8	1516.0	1570.5	1625.0
	s	0.6721	1.4460	1.4586	1.4760	1.4920	1.5072	1.5212	1.5334	1.5615	1.5871	1.6112	1.6339	1.6757	1.7141	1.7502	1.7841
610 (487.99)	Sh			12.01	32.01	52.01	72.01	92.01	112.01	162.01	212.01	262.01	312.01	412.01	512.01	612.01	712.01
	v	0.0202	0.7565	0.7781	0.8120	0.8436	0.8736	0.9022	0.9296	0.9942	1.0548	1.1135	1.1708	1.2809	1.3878	1.4928	1.5964
	h	473.67	1203.5	1213.8	1230.9	1246.9	1262.5	1276.8	1290.0	1320.6	1350.0	1378.5	1406.5	1461.5	1515.8	1570.3	1624.9
	s	0.6743	1.4444	1.4552	1.4728	1.4890	1.5044	1.5183	1.5309	1.5591	1.5850	1.6091	1.6318	1.6738	1.7123	1.7484	1.7823
620 (489.75)	Sh			10.25	30.25	50.25	70.25	90.25	110.25	160.25	210.25	260.25	310.25	410.25	510.25	610.25	710.25
	v	0.0202	0.7438	0.7622	0.7960	0.8275	0.8572	0.8856	0.9127	0.9765	1.0364	1.0943	1.1505	1.2596	1.3648	1.4677	1.5707
	h	475.72	1203.3	1212.2	1229.5	1245.5	1261.3	1275.8	1289.1	1319.9	1349.3	1377.9	1406.1	1461.2	1515.5	1570.1	1624.7
	s	0.6764	1.4427	1.4520	1.4698	1.4860	1.5016	1.5157	1.5284	1.5568	1.5827	1.6068	1.6296	1.6717	1.7102	1.7464	1.7803
630 (491.49)	Sh			8.51	28.51	48.51	68.51	88.51	108.51	158.51	208.51	258.51	308.51	408.51	508.51	608.51	708.51
	v	0.0202	0.7316	0.7466	0.7802	0.8117	0.8413	0.8694	0.8963	0.9595	1.0187	1.0757	1.1312	1.2387	1.3423	1.4445	1.5449
	h	477.75	1203.1	1210.6	1227.8	1244.1	1260.1	1274.7	1288.3	1319.2	1348.7	1377.4	1405.7	1460.8	1515.2	1569.9	1624.5
	s	0.6785	1.4410	1.4488	1.4665	1.4830	1.4988	1.5130	1.5260	1.5545	1.5805	1.6047	1.6276	1.6697	1.7083	1.7445	1.7784
640 (493.21)	Sh			6.79	26.79	46.79	66.79	86.79	106.79	156.79	206.79	256.79	306.79	406.79	506.79	606.79	706.79
	v	0.0203	0.7197	0.7317	0.7651	0.7963	0.8258	0.8537	0.8804	0.9429	1.0015	1.0578	1.1124	1.2187	1.3210	1.4213	1.5193
	h	479.79	1202.9	1209.0	1226.3	1242.7	1258.9	1273.6	1287.4	1318.5	1348.2	1376.8	1405.2	1460.5	1515.0	1569.7	1624.3
	s	0.6806	1.4394	1.4458	1.4636	1.4802	1.4962	1.5105	1.5236	1.5523	1.5785	1.6026	1.6256	1.6678	1.7065	1.7427	1.7766
650 (494.90)	Sh			5.10	25.10	45.10	65.10	85.10	105.10	155.10	205.10	255.10	305.10	405.10	505.10	605.10	705.10
	v	0.0203	0.7082	0.7171	0.7504	0.7816	0.8107	0.8384	0.8648	0.9269	0.9846	1.0404	1.0944	1.1988	1.2999	1.3987	1.4958
	h	481.73	1202.7	1207.3	1224.8	1241.3	1257.6	1272.5	1286.5	1317.8	1347.6	1376.3	1404.7	1460.1	1514.7	1569.4	1624.1
	s	0.6826	1.4379	1.4427	1.4607	1.4774	1.4935	1.5080	1.5213	1.5501	1.5764	1.6006	1.6236	1.6659	1.7046	1.7408	1.7748
660 (496.58)	Sh			3.42	23.42	43.42	63.42	83.42	103.42	153.42	203.42	253.42	303.42	403.42	503.42	603.42	703.42
	v	0.0204	0.6969	0.7031	0.7361	0.7672	0.7962	0.8237	0.8499	0.9113	0.9686	1.0234	1.0769	1.1803	1.2797	1.3774	1.4727
	h	483.77	1202.5	1205.7	1223.2	1240.0	1256.4	1271.4	1285.5	1317.1	1347.0	1375.8	1404.3	1459.7	1514.4	1569.2	1624.0
	s	0.6847	1.4363	1.4396	1.4576	1.4746	1.4908	1.5054	1.5188	1.5479	1.5742	1.5985	1.6216	1.6639	1.7027	1.7390	1.7730
670 (498.23)	Sh			1.77	21.77	41.77	61.77	81.77	101.77	151.77	201.77	251.77	301.77	401.77	501.77	601.77	701.77
	v	0.0204	0.6861	0.6892	0.7224	0.7531	0.7820	0.8093	0.8354	0.8963	0.9527	1.0072	1.0599	1.1617	1.2600	1.3560	1.4503
	h	485.61	1202.3	1204.0	1221.7	1238.7	1255.1	1270.2	1284.5	1316.3	1346.3	1375.3	1403.9	1459.4	1514.1	1569.0	1623.8
	s	0.6867	1.4349	1.4367	1.4549	1.4721	1.4883	1.5030	1.5166	1.5459	1.5723	1.5968	1.6200	1.6624	1.7012	1.7376	1.7716
680 (499.87)	Sh			20.13	40.13	60.13	80.13	100.13	150.13	200.13	250.13	300.13					

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)			Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT													
					520°	540°	560°	580°	600°	620°	650°	700°	750°	800°	900°	1000°	1100°	1200°
725 (507.01)	Sh				12.99	32.99	52.99	72.99	92.99	112.99	142.99	192.99	242.99	292.99	392.99	492.99	592.99	692.99
	v	0.0206	0.6314	0.6524	0.6827	0.7109	0.7373	0.7624	0.7864	0.8203	0.8740	0.9250	0.9745	1.0697	1.1612	1.2511	1.3383	
	h	496.2	1200.9	1212.8	1230.9	1248.0	1264.0	1279.1	1293.8	1312.3	1343.0	1372.3	1401.3	1457.4	1512.5	1567.7	1622.7	
	s	0.6973	1.4263	1.4385	1.4568	1.4737	1.4892	1.5036	1.5173	1.5342	1.5612	1.5859	1.6094	1.6522	1.6913	1.7279	1.7621	
750 (510.83)	Sh				9.17	29.17	49.17	69.17	89.17	109.17	139.17	189.17	239.17	289.17	389.17	489.17	589.17	689.17
	v	0.0207	0.6091	0.6237	0.6538	0.6818	0.7080	0.7326	0.7561	0.7896	0.8419	0.8918	0.9399	1.0326	1.1212	1.2078	1.2928	
	h	500.8	1200.2	1208.8	1227.4	1244.9	1261.0	1276.6	1291.4	1310.5	1341.5	1371.0	1400.2	1456.5	1511.8	1567.1	1622.3	
	s	0.7019	1.4225	1.4313	1.4501	1.4674	1.4830	1.4979	1.5117	1.5291	1.5564	1.5813	1.6049	1.6479	1.6871	1.7237	1.7580	
775 (514.57)	Sh				5.43	25.43	45.43	65.43	85.43	105.43	135.43	185.43	235.43	285.43	385.43	485.43	585.43	685.43
	v	0.0208	0.5882	0.5969	0.6268	0.6545	0.6803	0.7047	0.7278	0.7607	0.8119	0.8606	0.9073	0.9977	1.0838	1.1676	1.2505	
	h	505.3	1198.5	1204.7	1223.7	1241.5	1258.2	1271.9	1289.0	1306.8	1340.0	1369.7	1399.0	1455.6	1511.1	1566.6	1621.8	
	s	0.7064	1.4189	1.4242	1.4434	1.4610	1.4772	1.4902	1.5062	1.5241	1.5518	1.5769	1.6006	1.6438	1.6832	1.7200	1.7543	
800 (518.20)	Sh				1.80	21.80	41.80	61.80	81.80	101.80	131.80	181.80	231.80	281.80	381.80	481.80	581.80	681.80
	v	0.0209	0.5685	0.5714	0.6013	0.6288	0.6545	0.6785	0.7013	0.7336	0.7838	0.8313	0.8770	0.9648	1.0486	1.1302	1.2105	
	h	509.7	1198.8	1200.3	1220.0	1238.2	1255.3	1271.4	1286.5	1306.8	1336.8	1368.5	1397.8	1454.9	1510.5	1566.0	1621.4	
	s	0.7108	1.4155	1.4170	1.4369	1.4549	1.4715	1.4868	1.5009	1.5195	1.5473	1.5727	1.5964	1.6400	1.6794	1.7162	1.7506	
825 (521.75)	Sh				18.25	38.25	58.25	78.25	98.25	128.25	178.25	228.25	278.25	378.25	478.25	578.25	678.25	
	v	0.0210	0.5500	0.5774	0.6046	0.6300	0.6539	0.6763	0.7081	0.7573	0.8038	0.8483	0.9338	1.0155	1.0950	1.1727		
	h	514.0	1198.0	1216.1	1234.9	1252.1	1268.5	1284.0	1304.8	1336.8	1367.0	1396.6	1453.8	1509.7	1565.4	1620.8		
	s	0.7152	1.4121	1.4304	1.4490	1.4657	1.4813	1.4958	1.5148	1.5430	1.5685	1.5925	1.6362	1.6758	1.7127	1.7471		
850 (525.23)	Sh				14.77	34.77	54.77	74.77	94.77	124.77	174.77	224.77	274.77	374.77	474.77	574.77	674.77	
	v	0.0210	0.5326	0.5545	0.5817	0.6070	0.6306	0.6528	0.6841	0.7323	0.7779	0.8213	0.9048	0.9845	1.0619	1.1375		
	h	518.3	1197.2	1212.4	1231.5	1249.1	1265.7	1281.4	1302.9	1335.2	1365.7	1395.4	1452.8	1509.0	1564.8	1620.4		
	s	0.7194	1.4087	1.4240	1.4429	1.4600	1.4758	1.4905	1.5101	1.5386	1.5643	1.5883	1.6321	1.6720	1.7090	1.7435		
875 (528.62)	Sh				11.38	31.38	51.38	71.38	91.38	121.38	171.38	221.38	271.38	371.38	471.38	571.38	671.38	
	v	0.0211	0.5162	0.5327	0.5601	0.5851	0.6085	0.6305	0.6615	0.7087	0.7535	0.7960	0.8773	0.9554	1.0306	1.1045		
	h	522.4	1196.4	1208.4	1228.0	1246.0	1263.0	1279.0	1300.9	1333.5	1364.4	1394.2	1451.9	1508.3	1564.3	1619.9		
	s	0.7236	1.4056	1.4177	1.4371	1.4546	1.4708	1.4858	1.5058	1.5345	1.5606	1.5847	1.6287	1.6687	1.7058	1.7403		
900 (531.94)	Sh				8.06	28.06	48.06	68.06	88.06	118.06	168.06	218.06	268.06	368.06	468.06	568.06	668.06	
	v	0.0212	0.5006	0.5123	0.5394	0.5644	0.5876	0.6094	0.6399	0.6866	0.7304	0.7720	0.8516	0.9277	1.0010	1.0727		
	h	526.6	1195.6	1204.0	1224.2	1242.6	1260.0	1276.5	1298.6	1331.8	1363.0	1392.9	1451.1	1507.8	1563.7	1619.3		
	s	0.7276	1.4022	1.4106	1.4306	1.4484	1.4649	1.4803	1.5004	1.5296	1.5559	1.5801	1.6245	1.6647	1.7017	1.7362		
925 (535.20)	Sh				4.80	24.80	44.80	64.80	84.80	114.80	164.80	214.80	264.80	364.80	464.80	564.80	664.80	
	v	0.0213	0.4858	0.4927	0.5199	0.5448	0.5678	0.5894	0.6196	0.6655	0.7085	0.7494	0.8272	0.9014	0.9731	1.0432		
	h	530.6	1194.7	1200.0	1220.8	1239.6	1257.0	1273.9	1296.7	1330.2	1361.7	1391.7	1450.0	1506.9	1563.1	1618.9		
	s	0.7316	1.3991	1.4044	1.4250	1.4433	1.4599	1.4757	1.4965	1.5260	1.5526	1.5769	1.6214	1.6618	1.6990	1.7337		
950 (538.38)	Sh				1.62	21.62	41.62	61.62	81.62	111.62	161.62	211.62	261.62	361.62	461.62	561.62	661.62	
	v	0.0214	0.4717	0.4741	0.5014	0.5262	0.5491	0.5705	0.6003	0.6456	0.6877	0.7277	0.8039	0.8766	0.9465	1.0148		
	h	534.6	1193.8	1195.8	1217.0	1236.4	1254.1	1271.3	1294.5	1328.5	1360.3	1390.5	1449.1	1506.1	1562.6	1618.5		
	s	0.7355	1.3960	1.3980	1.4190	1.4378	1.4547	1.4708	1.4920	1.5220	1.5488	1.5733	1.6180	1.6584	1.6958	1.7305		
975 (541.50)	Sh				18.50	38.50	58.50	78.50	98.50	128.50	178.50	228.50	278.50	378.50	478.50	578.50	678.50	
	v	0.0215	0.4583	0.4835	0.5083	0.5311	0.5524	0.5820	0.6266	0.6680	0.7073	0.7820	0.8533	0.9214	0.9880			
	h	538.5	1192.9	1213.0	1233.0	1251.2	1268.7	1292.1	1326.7	1358.8	1389.2	1448.2	1505.4	1562.0	1618.0			
	s	0.7393	1.3929	1.4128	1.4322	1.4495	1.4659	1.4873	1.5178	1.5449	1.5695	1.6145	1.6551	1.6926	1.7274			
1000 (544.56)	Sh				15.44	35.44	55.44	75.44	95.44	125.44	175.44	225.44	275.44	375.44	475.44	575.44	675.44	
	v	0.0216	0.4456	0.4665	0.4914	0.5141	0.5351	0.5639	0.6085	0.6492	0.6879	0.7611	0.8306	0.8974	0.9626			
	h	542.4	1191.9	1208.8	1229.4	1248.2	1265.8	1289.6	1324.9	1357.2	1388.0	1447.3	1504.7	1561.3	1617.5			
	s	0.7431	1.3899	1.4066	1.4266	1.4445	1.4610	1.4827	1.5138	1.5411	1.5660	1.6113	1.6520	1.6895	1.7244			
1025 (547.57)	Sh				12.43	32.43	52.43	72.43	92.43	122.43	172.43	222.43	272.43	372.43	472.43	572.43	672.43	
	v	0.0217	0.4334	0.4498	0.4751	0.4978	0.5188	0.5479	0.5913	0.6314	0.6695	0.7413	0.8095	0.8746	0.9384			
	h	546.1	1191.0	1204.5	1225.9	1245.2	1263.0	1287.6	1323.1	1355.7	1386.8	1446.4	1504.1	1560.6	1617.0			
	s	0.7468	1.3871	1.4004	1.4212	1.4396	1.4562	1.4787	1.5100	1.5375	1.5627	1.6082	1.6491	1.6866	1.7216			
1050 (550.52)	Sh				9.48	29.48	49.48	69.48	89.48	119.48	169.48	219.48	269.48	369.48	469.48	569.48	669.48	
	v	0.0218	0.4219	0.4345	0.4596	0.4822	0.5031	0.5320	0.5749	0.6143	0.6519	0.7223	0.7892	0.8531	0.9154			
	h	550.0	1190.0	1200.5	1222.4	1241.9	1260.2	1285.1	1321.3	1354.2	1385.6	1445.4	1503.4	1560.0	1616.5			
	s	0.7504	1.3839	1.3942	1.4155	1.4341	1.4512	1.4739	1.5058	1.5336	1.5590	1.6047	1.6458	1.6833	1.7184			
1075 (553.42)	Sh				6.58	26.58	46.58	66.58	86.58	116.58	166.58	216.58	266.58	366.58	466.58	566.58	666.58	
	v	0.0219	0.4108	0.4195	0.4446	0.4672	0.4879	0.5169	0.5592	0.5980	0.6349	0.7042	0.7696	0.8322	0.8933			
	h	553.7	1188.9	1196.3	1218.7	1238.8	1257.2	1282.8	1319.4	1352.6	1384.1	1444.3	1502.5	15				

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)		Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT													
				580°	600°	520°	640°	660°	680°	700°	720°	750°	800°	900°	1000°	1100°	1200°
1150 (561.81)	Sh			18.19	38.19	58.19	78.19	98.19	118.19	138.19	158.19	188.19	238.19	338.19	438.19	538.19	638.19
	v	0.0221	0.3804	0.4035	0.4259	0.4468	0.4659	0.4839	0.5005	0.5165	0.5317	0.5537	0.5889	0.6549	0.7166	0.7760	0.8333
	h	564.6	1185.6	1207.4	1228.7	1248.6	1266.9	1284.4	1299.5	1314.1	1327.9	1348.1	1380.4	1441.7	1500.2	1557.8	1614.5
	s	0.7644	1.3723	1.3934	1.4137	1.4323	1.4491	1.4649	1.4783	1.4910	1.5028	1.5197	1.5458	1.5926	1.6341	1.6723	1.7075
1175 (564.54)	Sh			15.46	35.46	55.46	75.46	95.46	115.46	135.46	155.46	185.46	235.46	335.46	435.46	535.46	635.46
	v	0.0222	0.3710	0.3911	0.4133	0.4339	0.4530	0.4708	0.4874	0.5032	0.5183	0.5400	0.5747	0.6396	0.7005	0.7586	0.8149
	h	568.2	1184.4	1203.6	1225.4	1245.4	1264.6	1281.5	1297.3	1312.1	1326.1	1346.4	1379.0	1440.6	1499.4	1557.0	1614.0
	s	0.7678	1.3694	1.3880	1.4088	1.4275	1.4451	1.4603	1.4743	1.4872	1.4991	1.5161	1.5425	1.5896	1.6313	1.6694	1.7048
1200 (567.19)	Sh			12.81	32.81	52.81	72.81	92.81	112.81	132.81	152.81	182.81	232.81	332.81	432.81	532.81	632.81
	v	0.0223	0.3620	0.3793	0.4013	0.4219	0.4408	0.4585	0.4750	0.4907	0.5056	0.5271	0.5613	0.6251	0.6853	0.7423	0.7975
	h	571.7	1183.2	1200.2	1222.1	1242.6	1261.5	1279.2	1295.3	1310.3	1324.4	1345.0	1377.7	1439.5	1499.0	1556.6	1613.6
	s	0.7712	1.3667	1.3831	1.4040	1.4232	1.4405	1.4565	1.4707	1.4838	1.4958	1.5131	1.5395	1.5867	1.6289	1.6671	1.7025
1225 (569.82)	Sh			10.18	30.18	50.18	70.18	90.18	110.18	130.18	150.18	180.18	230.18	330.18	430.18	530.18	630.18
	v	0.0224	0.3534	0.3669	0.3895	0.4102	0.4290	0.4466	0.4631	0.4786	0.4934	0.5146	0.5483	0.6113	0.6702	0.7264	0.7806
	h	575.1	1182.0	1195.6	1218.6	1239.7	1258.8	1276.7	1293.3	1308.3	1322.7	1343.3	1376.4	1438.6	1498.0	1556.0	1613.0
	s	0.7745	1.3640	1.3771	1.3990	1.4188	1.4363	1.4524	1.4671	1.4802	1.4925	1.5097	1.5365	1.5840	1.6262	1.6646	1.7000
1250 (572.39)	Sh			7.61	27.61	47.61	67.61	87.61	107.61	127.61	147.61	177.61	227.61	327.61	427.61	527.61	627.61
	v	0.0225	0.3453	0.3549	0.3782	0.3991	0.4177	0.4354	0.4517	0.4672	0.4817	0.5027	0.5360	0.5980	0.6558	0.7113	0.7644
	h	578.6	1180.8	1190.9	1215.0	1236.7	1256.0	1274.5	1291.2	1306.6	1321.0	1341.9	1375.2	1437.7	1497.1	1554.2	1611.6
	s	0.7777	1.3612	1.3710	1.3939	1.4142	1.4319	1.4486	1.4634	1.4768	1.4891	1.5066	1.5335	1.5813	1.6235	1.6620	1.6975
1275 (574.93)	Sh			5.07	25.07	45.07	65.07	85.07	105.07	125.07	145.07	175.07	225.07	325.07	425.07	525.07	625.07
	v	0.0226	0.3371	0.3437	0.3672	0.3881	0.4068	0.4244	0.4406	0.4560	0.4705	0.4912	0.5241	0.5852	0.6420	0.6966	0.7488
	h	582.0	1179.5	1186.5	1211.2	1233.5	1253.3	1272.0	1289.0	1304.6	1319.4	1340.3	1373.9	1436.7	1496.3	1554.7	1612.0
	s	0.7809	1.3584	1.3651	1.3887	1.4095	1.4277	1.4445	1.4596	1.4732	1.4858	1.5033	1.5305	1.5785	1.6207	1.6594	1.6950
1300 (577.43)	Sh			2.57	22.57	42.57	62.57	82.57	102.57	122.57	142.57	172.57	222.57	322.57	422.57	522.57	622.57
	v	0.0227	0.3294	0.3329	0.3567	0.3776	0.3965	0.4140	0.4301	0.4453	0.4698	0.4803	0.5127	0.5730	0.6290	0.6826	0.7340
	h	585.4	1178.3	1182.0	1207.7	1230.3	1250.6	1269.6	1287.0	1302.8	1317.8	1338.9	1372.6	1435.8	1495.7	1554.2	1611.6
	s	0.7840	1.3557	1.3593	1.3837	1.4049	1.4235	1.4406	1.4560	1.4698	1.4826	1.5002	1.5275	1.5758	1.6183	1.6570	1.6926
1325 (579.89)	Sh			20.11	40.11	60.11	80.11	100.11	120.11	140.11	170.11	220.11	320.11	420.11	520.11	620.11	
	v	0.0228	0.3220	0.3463	0.3673	0.3863	0.4037	0.4200	0.4350	0.4493	0.4696	0.5016	0.5611	0.6162	0.6689	0.7195	
	h	588.7	1177.0	1203.8	1227.0	1247.8	1267.0	1285.0	1300.8	1315.9	1337.3	1371.2	1434.8	1494.9	1553.4	1611.0	
	s	0.7871	1.3530	1.3785	1.4002	1.4193	1.4366	1.4525	1.4663	1.4792	1.4971	1.5246	1.5731	1.6158	1.6545	1.6903	
1350 (582.32)	Sh			17.68	37.68	57.68	77.68	97.68	117.68	137.68	167.68	217.68	317.68	417.68	517.68	617.68	
	v	0.0229	0.3147	0.3363	0.3576	0.3766	0.3940	0.4105	0.4252	0.4393	0.4594	0.4911	0.5497	0.6042	0.6559	0.7057	
	h	592.1	1175.8	1200.0	1223.8	1245.0	1264.6	1283.2	1299.1	1314.2	1335.8	1370.0	1433.8	1494.3	1552.8	1610.6	
	s	0.7902	1.3504	1.3734	1.3957	1.4151	1.4328	1.4492	1.4631	1.4760	1.4941	1.5218	1.5705	1.6134	1.6521	1.6881	
1375 (584.71)	Sh			15.29	35.29	55.29	75.29	95.29	115.29	135.29	165.29	215.29	315.29	415.29	515.29	615.29	
	v	0.0230	0.3078	0.3266	0.3480	0.3670	0.3847	0.4007	0.4154	0.4295	0.4494	0.4808	0.5387	0.5922	0.6432	0.6922	
	h	595.3	1174.5	1195.8	1220.2	1242.0	1262.1	1280.7	1296.8	1312.3	1334.1	1368.6	1432.8	1493.2	1552.0	1609.9	
	s	0.7932	1.3477	1.3680	1.3908	1.4108	1.4289	1.4453	1.4593	1.4726	1.4908	1.5188	1.5678	1.6107	1.6496	1.6856	
1400 (587.07)	Sh			12.93	32.93	52.93	72.93	92.93	112.93	132.93	162.93	212.93	312.93	412.93	512.93	612.93	
	v	0.0231	0.3011	0.3172	0.3388	0.3581	0.3760	0.3914	0.4063	0.4203	0.4401	0.4711	0.5283	0.5811	0.6313	0.6795	
	h	598.6	1173.2	1191.8	1216.9	1239.2	1260.1	1278.2	1294.9	1310.6	1332.8	1367.4	1431.9	1492.7	1551.7	1609.6	
	s	0.7963	1.3452	1.3629	1.3863	1.4068	1.4256	1.4416	1.4562	1.4696	1.4882	1.5162	1.5654	1.6086	1.6476	1.6836	
1425 (589.40)	Sh			10.60	30.60	50.60	70.60	90.60	110.60	130.60	160.60	210.60	310.60	410.60	510.60	610.60	
	v	0.0232	0.2947	0.3081	0.3297	0.3491	0.3668	0.3825	0.3972	0.4112	0.4308	0.4616	0.5180	0.5701	0.6195	0.6671	
	h	601.8	1171.8	1187.7	1213.2	1236.2	1257.2	1275.8	1292.9	1308.9	1331.1	1366.1	1431.0	1491.8	1551.0	1609.1	
	s	0.7992	1.3425	1.3576	1.3814	1.4025	1.4215	1.4379	1.4528	1.4665	1.4850	1.5134	1.5629	1.6061	1.6453	1.6814	
1450 (591.70)	Sh			8.30	28.30	48.30	68.30	88.30	108.30	128.30	158.30	208.30	308.30	408.30	508.30	608.30	
	v	0.0233	0.2885	0.2991	0.3211	0.3405	0.3580	0.3739	0.3885	0.4025	0.4220	0.4524	0.5082	0.5597	0.6083	0.6552	
	h	605.0	1170.5	1183.2	1209.7	1233.1	1254.3	1273.5	1290.6	1307.0	1329.7	1364.8	1430.1	1491.3	1550.4	1608.5	
	s	0.8022	1.3401	1.3521	1.3769	1.3984	1.4175	1.4345	1.4493	1.4634	1.4824	1.5108	1.5606	1.6041	1.6432	1.6794	
1475 (593.97)	Sh			6.03	26.03	46.03	66.03	86.03	106.03	126.03	156.03	206.03	306.03	406.03	506.03	606.03	
	v	0.0234	0.2824	0.2903	0.3126	0.3318	0.3495	0.3654	0.3801	0.3939	0.4129	0.4435	0.4986	0.5493	0.5973	0.6439	
	h	608.2	1169.1	1178.7	1206.2	1229.7	1251.5	1271.0	1288.8	1305.0	1327.4	1363.5	1429.1	1490.3	1549.8	1608.4	
	s	0.8052	1.3375	1.3466	1.3723	1.3939	1.4135	1.4308	1.4463	1.4601	1.4789	1.5081	1.5582	1.6016	1.6410	1.6774	
1500 (596.20)	Sh			3.80	23.80	43.80	63.80	83.80	103.80	123.80	153.80	203.80	303.80	403.80	503.80	603.80	
	v	0.0235	0.2765	0.2817	0.3044	0.3236	0.3413	0.3573	0.3721	0.3856	0.4042	0.4349	0.4894	0.5396	0.5869	0.6332	
	h	611.4	1167.7	1174.2	1202.5	1226.4	1248.5	1268.6	1286.8	1303.0	1325.4	1362.1	1428.1	1488.9	1548.3	1608.4	

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)		Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT													
				620°	640°	660°	680°	700°	720°	740°	760°	780°	800°	900°	1000°	1100°	1200°
1575 (602.74)	Sh			17.26	37.26	57.26	77.26	97.26	117.26	137.26	157.26	177.26	197.26	297.26	397.26	497.26	597.26
	v	0.0238	0.2599	0.2804	0.3008	0.3186	0.3345	0.3492	0.3627	0.3755	0.3877	0.3993	0.4105	0.4633	0.5117	0.5573	0.6010
	h	620.8	1163.4	1190.3	1216.9	1240.3	1261.3	1280.5	1297.6	1313.5	1328.8	1343.5	1357.8	1424.9	1487.3	1547.4	1606.2
	s	0.8166	1.3273	1.3524	1.3768	1.3979	1.4165	1.4332	1.4478	1.4612	1.4738	1.4858	1.4972	1.5485	1.5927	1.6325	1.6691
1600 (604.87)	Sh			15.13	35.13	55.13	75.13	95.13	115.13	135.13	155.13	175.13	195.13	295.13	395.13	495.13	595.13
	v	0.0239	0.2548	0.2730	0.2935	0.3114	0.3274	0.3421	0.3555	0.3682	0.3802	0.3919	0.4031	0.4554	0.5032	0.5482	0.5914
	h	623.9	1161.9	1186.3	1213.7	1237.6	1258.9	1278.4	1295.7	1311.8	1327.3	1342.2	1356.7	1424.1	1486.8	1547.0	1605.8
	s	0.8195	1.3249	1.3477	1.3728	1.3943	1.4132	1.4302	1.4449	1.4585	1.4713	1.4834	1.4950	1.5465	1.5909	1.6308	1.6674
1625 (606.97)	Sh			13.03	33.03	53.03	73.03	93.03	113.03	133.03	153.03	173.03	193.03	293.03	393.03	493.03	593.03
	v	0.0240	0.2497	0.2656	0.2864	0.3044	0.3203	0.3348	0.3484	0.3610	0.3729	0.3845	0.3957	0.4474	0.4948	0.5391	0.5816
	h	627.0	1160.4	1182.1	1210.2	1234.5	1256.2	1275.9	1293.5	1310.0	1325.5	1340.6	1355.2	1423.0	1486.0	1546.3	1605.2
	s	0.8222	1.3223	1.3425	1.3683	1.3902	1.4094	1.4266	1.4416	1.4555	1.4683	1.4806	1.4923	1.5440	1.5887	1.6287	1.6652
1650 (609.05)	Sh			10.95	30.95	50.95	70.95	90.95	110.95	130.95	150.95	170.95	190.95	290.95	390.95	490.95	590.95
	v	0.0241	0.2448	0.2583	0.2794	0.2976	0.3136	0.3280	0.3417	0.3542	0.3661	0.3776	0.3887	0.4399	0.4867	0.5305	0.5724
	h	630.0	1158.8	1177.6	1206.8	1231.7	1253.7	1273.6	1291.8	1308.4	1324.1	1339.3	1354.0	1422.1	1485.3	1545.7	1604.7
	s	0.8250	1.3198	1.3373	1.3641	1.3865	1.4060	1.4233	1.4389	1.4528	1.4658	1.4782	1.4899	1.5420	1.5867	1.6268	1.6634
1675 (611.10)	Sh			8.90	28.90	48.90	68.90	88.90	108.90	128.90	148.90	168.90	188.90	288.90	388.90	488.90	588.90
	v	0.0242	0.2401	0.2511	0.2726	0.2909	0.3069	0.3214	0.3350	0.3474	0.3592	0.3706	0.3817	0.4324	0.4787	0.5220	0.5634
	h	633.1	1157.2	1173.1	1203.2	1228.7	1251.0	1271.5	1289.7	1306.4	1322.2	1337.5	1352.5	1420.9	1484.4	1545.0	1604.1
	s	0.8278	1.3173	1.3321	1.3597	1.3827	1.4024	1.4203	1.4358	1.4499	1.4629	1.4754	1.4874	1.5396	1.5846	1.6248	1.6615
1700 (613.12)	Sh			6.88	26.88	46.88	66.88	86.88	106.88	126.88	146.88	166.88	186.88	286.88	386.88	486.88	586.88
	v	0.0243	0.2354	0.2441	0.2659	0.2844	0.3006	0.3152	0.3286	0.3411	0.3528	0.3641	0.3750	0.4254	0.4711	0.5139	0.5549
	h	636.1	1155.7	1168.1	1199.4	1225.7	1248.4	1269.4	1287.8	1304.7	1320.7	1336.2	1351.2	1420.1	1483.7	1544.4	1603.9
	s	0.8304	1.3147	1.3262	1.3549	1.3786	1.3987	1.4170	1.4327	1.4469	1.4602	1.4728	1.4848	1.5374	1.5825	1.6227	1.6597
1725 (615.13)	Sh			4.87	24.87	44.87	64.87	84.87	104.87	124.87	144.87	164.87	184.87	284.87	384.87	484.87	584.87
	v	0.0244	0.2309	0.2384	0.2593	0.2780	0.2943	0.3088	0.3222	0.3346	0.3463	0.3575	0.3684	0.4183	0.4636	0.5058	0.5464
	h	639.1	1154.1	1165.2	1195.6	1222.4	1245.8	1266.8	1285.5	1302.7	1318.9	1334.5	1349.5	1419.0	1482.9	1543.7	1603.4
	s	0.8332	1.3123	1.3226	1.3505	1.3747	1.3954	1.4136	1.4296	1.4441	1.4575	1.4702	1.4822	1.5352	1.5806	1.6208	1.6579
1750 (617.11)	Sh			2.89	22.89	42.89	62.89	82.89	102.89	122.89	142.89	162.89	182.89	282.89	382.89	482.89	582.89
	v	0.0245	0.2265	0.2329	0.2529	0.2718	0.2882	0.3028	0.3162	0.3285	0.3402	0.3514	0.3622	0.4116	0.4564	0.4982	0.5383
	h	642.1	1152.5	1162.0	1191.7	1219.2	1243.1	1264.5	1283.6	1300.9	1317.4	1333.1	1348.3	1418.1	1481.2	1543.3	1603.0
	s	0.8359	1.3099	1.3187	1.3460	1.3708	1.3919	1.4105	1.4269	1.4414	1.4550	1.4678	1.4800	1.5333	1.5780	1.6192	1.6562
1775 (619.07)	Sh			20.93	40.93	60.93	80.93	100.93	120.93	140.93	160.93	180.93	280.93	380.93	480.93	580.93	
	v	0.0246	0.2222		0.2466	0.2657	0.2822	0.2968	0.3102	0.3225	0.3340	0.3452	0.3559	0.4049	0.4493	0.4906	0.5302
	h	645.0	1150.9		1187.6	1216.0	1240.4	1262.1	1281.5	1299.0	1315.5	1331.5	1346.8	1416.9	1481.3	1542.5	1602.3
	s	0.8386	1.3076		1.3413	1.3669	1.3885	1.4074	1.4239	1.4387	1.4523	1.4653	1.4775	1.5311	1.5767	1.6173	1.6544
1800 (621.00)	Sh			19.00	39.00	59.00	79.00	99.00	119.00	139.00	159.00	179.00	279.00	379.00	479.00	579.00	
	v	0.0247	0.2180		0.2405	0.2598	0.2764	0.2912	0.3045	0.3168	0.3283	0.3393	0.3499	0.3986	0.4425	0.4834	0.5224
	h	648.0	1149.3		1183.7	1212.7	1237.6	1259.8	1279.6	1297.4	1313.9	1329.9	1345.3	1416.0	1480.6	1542.0	1601.8
	s	0.8412	1.3051		1.3367	1.3628	1.3848	1.4041	1.4211	1.4360	1.4497	1.4627	1.4750	1.5290	1.5748	1.6155	1.6526
1825 (622.92)	Sh			17.08	37.08	57.08	77.08	97.08	117.08	137.08	157.08	177.08	277.08	377.08	477.08	577.08	
	v	0.0248	0.2139		0.2345	0.2540	0.2708	0.2855	0.2991	0.3112	0.3225	0.3335	0.3441	0.3924	0.4357	0.4763	0.5147
	h	650.9	1147.7		1179.5	1209.4	1234.9	1257.3	1277.8	1295.6	1312.2	1328.3	1343.9	1415.0	1479.6	1541.3	1601.1
	s	0.8439	1.3028		1.3319	1.3589	1.3815	1.4009	1.4185	1.4334	1.4471	1.4602	1.4727	1.5270	1.5728	1.6137	1.6508
1850 (624.82)	Sh			15.18	35.18	55.18	75.18	95.18	115.18	135.18	155.18	175.18	275.18	375.18	475.18	575.18	
	v	0.0249	0.2099		0.2285	0.2482	0.2651	0.2799	0.2936	0.3056	0.3170	0.3279	0.3384	0.3863	0.4293	0.4695	0.5075
	h	653.9	1145.9		1175.1	1205.8	1231.8	1254.8	1275.6	1293.5	1310.5	1326.7	1342.4	1413.9	1479.0	1540.8	1600.8
	s	0.8465	1.3002		1.3269	1.3546	1.3776	1.3976	1.4154	1.4305	1.4445	1.4577	1.4703	1.5248	1.5710	1.6120	1.6492
1875 (626.69)	Sh			13.31	33.31	53.31	73.31	93.31	113.31	133.31	153.31	173.31	273.31	373.31	473.31	573.31	
	v	0.0251	0.2060		0.2225	0.2427	0.2597	0.2746	0.2882	0.3003	0.3115	0.3224	0.3328	0.3804	0.4229	0.4626	0.5003
	h	656.9	1144.2		1170.5	1202.3	1229.0	1252.3	1273.5	1291.8	1308.7	1325.2	1340.8	1412.9	1478.0	1540.2	1600.3
	s	0.8491	1.2977		1.3218	1.3504	1.3741	1.3943	1.4124	1.4278	1.4418	1.4552	1.4677	1.5227	1.5689	1.6101	1.6475
1900 (628.55)	Sh			11.45	31.45	51.45	71.45	91.45	111.45	131.45	151.45	171.45	271.45	371.45	471.45	571.45	
	v	0.0252	0.2022		0.2165	0.2371	0.2543	0.2694	0.2828	0.2950	0.3063	0.3171	0.3274	0.3747	0.4170	0.4562	0.4934
	h	659.9	1142.4		1165.6	1198.8	1225.9	1249.8	1271.0	1289.7	1307.0	1323.5	1339.4	1411.9	1477.5	1539.7	1599.8
	s	0.8517	1.2951		1.3163	1.3462	1.3702	1.3910	1.4091	1.4249	1.4392	1.4526	1.4653	1.5207	1.5672	1.6084	1.6457
1925 (630.38)	Sh			9.62	29.62	49.62	69.62	89.62	109.62	129.62	149.62	169.62	269.62	369.62	469.62	569.62	
	v	0.0253	0.1985		0.2107	0.2317	0.2491	0.2642	0.2776	0.2898	0.3010	0.3118	0.3221	0.3690	0.4109	0.4497	0.4864
	h	662.8	1140.6		1160.9	1195.0	1223.1	1247.3	1268.7	1287.7	1305.1						

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)		Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FARENHEIT													
				660°	680°	700°	720°	740°	760°	780°	800°	820°	850°	900°	1000°	1100°	1200°
2000 (635.78)	Sh			24.22	44.22	64.22	84.22	104.22	124.22	144.22	164.22	184.22	214.22	264.22	364.22	464.22	564.22
	v	0.0257	0.1879	0.2162	0.2344	0.2498	0.2633	0.2752	0.2862	0.2966	0.3067	0.3165	0.3305	0.3528	0.3940	0.4319	0.4678
	h	671.7	1135.2	1183.7	1214.3	1240.0	1262.4	1281.8	1299.6	1316.4	1332.7	1348.6	1371.1	1407.2	1473.5	1537.4	1598.6
	s	0.8620	1.2851	1.3289	1.3560	1.3783	1.3975	1.4138	1.4285	1.4422	1.4552	1.4677	1.4851	1.5122	1.5592	1.6015	1.6395
2025 (637.54)	Sh			22.46	42.46	62.46	82.46	102.46	122.46	142.46	162.46	182.46	212.46	262.46	362.46	462.46	562.46
	v	0.0258	0.1845	0.2112	0.2296	0.2452	0.2587	0.2707	0.2816	0.2919	0.3020	0.3116	0.3257	0.3478	0.3887	0.4262	0.4617
	h	674.7	1133.3	1179.9	1211.1	1237.5	1260.3	1280.1	1297.9	1314.8	1331.3	1347.1	1370.1	1406.2	1473.8	1537.0	1598.1
	s	0.8646	1.2826	1.3246	1.3523	1.3752	1.3947	1.4114	1.4261	1.4398	1.4530	1.4654	1.4832	1.5103	1.5582	1.6001	1.6380
2050 (639.29)	Sh			20.71	40.71	60.71	80.71	100.71	120.71	140.71	160.71	180.71	210.71	260.71	360.71	460.71	560.71
	v	0.0259	0.1812	0.2062	0.2248	0.2405	0.2541	0.2661	0.2769	0.2872	0.2972	0.3067	0.3208	0.3428	0.3833	0.4205	0.4556
	h	677.6	1131.4	1175.7	1207.7	1234.6	1257.9	1278.0	1295.9	1313.0	1329.5	1345.3	1368.6	1405.1	1472.8	1536.2	1597.4
	s	0.8671	1.2800	1.3199	1.3483	1.3717	1.3916	1.4085	1.4233	1.4372	1.4504	1.4628	1.4808	1.5082	1.5562	1.5982	1.6362
2075 (641.02)	Sh			18.98	38.98	58.98	78.98	98.98	118.98	138.98	158.98	178.98	208.98	258.98	358.98	458.98	558.98
	v	0.0261	0.1780	0.2013	0.2200	0.2358	0.2494	0.2615	0.2724	0.2828	0.2927	0.3022	0.3161	0.3374	0.3782	0.4151	0.4499
	h	680.5	1129.5	1171.5	1204.3	1231.6	1255.2	1275.7	1294.0	1311.5	1328.1	1344.0	1367.3	1403.1	1472.1	1535.7	1597.0
	s	0.8697	1.2776	1.3154	1.3445	1.3682	1.3884	1.4056	1.4208	1.4350	1.4483	1.4608	1.4788	1.5056	1.5546	1.5967	1.6348
2100 (642.73)	Sh			17.27	37.27	57.27	77.27	97.27	117.27	137.27	157.27	177.27	207.27	257.27	357.27	457.27	557.27
	v	0.0262	0.1748	0.1964	0.2152	0.2310	0.2447	0.2568	0.2679	0.2783	0.2882	0.2977	0.3114	0.3319	0.3730	0.4096	0.4441
	h	683.4	1127.6	1167.3	1200.4	1228.2	1252.2	1273.0	1292.0	1309.6	1326.4	1342.6	1365.8	1400.8	1471.0	1534.8	1596.4
	s	0.8722	1.2751	1.3108	1.3401	1.3643	1.3848	1.4023	1.4180	1.4323	1.4458	1.4585	1.4764	1.5027	1.5525	1.5947	1.6330
2125 (644.43)	Sh			15.57	35.57	55.57	75.57	95.57	115.57	135.57	155.57	175.57	205.57	255.57	355.57	455.57	555.57
	v	0.0263	0.1716	0.1918	0.2108	0.2268	0.2406	0.2527	0.2637	0.2739	0.2838	0.2933	0.3070	0.3280	0.3682	0.4045	0.4386
	h	686.3	1125.6	1163.0	1197.3	1225.7	1250.2	1271.3	1290.2	1307.8	1324.8	1341.2	1364.7	1400.8	1470.5	1534.5	1596.0
	s	0.8747	1.2726	1.3060	1.3364	1.3611	1.3820	1.3994	1.4151	1.4294	1.4430	1.4559	1.4740	1.5011	1.5505	1.5929	1.6311
2150 (646.11)	Sh			13.89	33.89	53.89	73.89	93.89	113.89	133.89	153.89	173.89	203.89	253.89	353.89	453.89	553.89
	v	0.0265	0.1685	0.1872	0.2064	0.2225	0.2364	0.2485	0.2594	0.2695	0.2793	0.2889	0.3026	0.3240	0.3633	0.3993	0.4331
	h	689.2	1123.5	1158.6	1193.7	1222.7	1247.7	1269.1	1288.1	1305.7	1322.7	1339.4	1363.2	1400.5	1469.4	1533.8	1595.3
	s	0.8773	1.2700	1.3015	1.3326	1.3578	1.3792	1.3972	1.4129	1.4272	1.4408	1.4540	1.4723	1.5003	1.5492	1.5918	1.6300
2175 (647.77)	Sh			12.23	32.23	52.23	72.23	92.23	112.23	132.23	152.23	172.23	202.23	252.23	352.23	452.23	552.23
	v	0.0266	0.1655	0.1828	0.2018	0.2182	0.2321	0.2442	0.2552	0.2654	0.2752	0.2847	0.2983	0.3196	0.3587	0.3943	0.4279
	h	692.0	1121.5	1154.3	1189.7	1219.8	1244.9	1266.5	1286.1	1304.0	1321.3	1338.0	1361.9	1399.4	1468.9	1533.1	1595.0
	s	0.8798	1.2676	1.2971	1.3284	1.3546	1.3760	1.3942	1.4104	1.4250	1.4388	1.4519	1.4704	1.4985	1.5478	1.5903	1.6288
2200 (649.42)	Sh			10.58	30.58	50.58	70.58	90.58	110.58	130.58	150.58	170.58	200.58	250.58	350.58	450.58	550.58
	v	0.0267	0.1626	0.1773	0.1972	0.2138	0.2277	0.2399	0.2509	0.2612	0.2710	0.2804	0.2939	0.3151	0.3540	0.3893	0.4226
	h	695.0	1119.4	1148.0	1185.8	1216.2	1241.8	1263.8	1283.6	1302.9	1319.5	1336.2	1360.3	1398.0	1467.9	1532.3	1594.3
	s	0.8823	1.2649	1.2906	1.3239	1.3504	1.3723	1.3907	1.4072	1.4229	1.4362	1.4494	1.4679	1.4962	1.5458	1.5884	1.6269
2225 (651.06)	Sh			8.94	28.94	48.94	68.94	88.94	108.94	128.94	148.94	168.94	198.94	248.94	348.94	448.94	548.94
	v	0.0269	0.1597	0.1727	0.1931	0.2097	0.2237	0.2360	0.2471	0.2574	0.2671	0.2765	0.2900	0.3109	0.3495	0.3847	0.4175
	h	697.9	1117.4	1142.7	1182.1	1213.3	1239.1	1261.7	1282.0	1300.5	1318.0	1335.2	1359.2	1397.0	1467.0	1531.9	1593.7
	s	0.8848	1.2625	1.2852	1.3201	1.3472	1.3693	1.3883	1.4051	1.4201	1.4341	1.4476	1.4661	1.4944	1.5441	1.5871	1.6255
2250 (652.67)	Sh			7.33	27.33	47.33	67.33	87.33	107.33	127.33	147.33	167.33	197.33	247.33	347.33	447.33	547.33
	v	0.0270	0.1569	0.1680	0.1889	0.2055	0.2197	0.2320	0.2432	0.2535	0.2632	0.2726	0.2860	0.3066	0.3449	0.3800	0.4125
	h	700.8	1115.3	1137.2	1178.0	1209.7	1236.5	1259.2	1279.8	1298.6	1316.3	1333.5	1357.8	1395.5	1465.8	1531.2	1593.1
	s	0.8873	1.2599	1.2795	1.3156	1.3432	1.3661	1.3852	1.4022	1.4175	1.4317	1.4452	1.4640	1.4922	1.5421	1.5854	1.6239
2275 (654.27)	Sh			5.73	25.73	45.73	65.73	85.73	105.73	125.73	145.73	165.73	195.73	245.73	345.73	445.73	545.73
	v	0.0272	0.1542	0.1630	0.1848	0.2018	0.2159	0.2281	0.2393	0.2496	0.2594	0.2688	0.2821	0.3026	0.3407	0.3755	0.4077
	h	703.8	1113.2	1130.8	1174.3	1207.1	1233.9	1256.7	1277.6	1296.8	1314.8	1332.1	1356.5	1394.4	1465.1	1530.7	1592.8
	s	0.8898	1.2573	1.2731	1.3116	1.3401	1.3630	1.3822	1.3995	1.4151	1.4295	1.4431	1.4619	1.4903	1.5405	1.5839	1.6225
2300 (655.87)	Sh			4.13	24.13	44.13	64.13	84.13	104.13	124.13	144.13	164.13	194.13	244.13	344.13	444.13	544.13
	v	0.0274	0.1514	0.1580	0.1807	0.1980	0.2120	0.2241	0.2353	0.2457	0.2556	0.2649	0.2781	0.2986	0.3365	0.3709	0.4029
	h	706.7	1111.0	1124.2	1169.9	1204.0	1230.9	1253.9	1275.0	1294.5	1312.9	1330.3	1354.9	1393.2	1464.3	1529.9	1592.2
	s	0.8923	1.2547	1.2665	1.3070	1.3366	1.3596	1.3790	1.3964	1.4123	1.4270	1.4407	1.4597	1.4884	1.5388	1.5823	1.6210
2325 (657.74)	Sh			2.26	22.26	42.26	62.26	82.26	102.26	122.26	142.26	162.26	192.26	242.26	342.26	442.26	542.26
	v	0.0275	0.1488	0.1530	0.1766	0.1941	0.2083	0.2207	0.2319	0.2423	0.2520	0.2613	0.2744	0.2948	0.3324	0.3665	0.3983
	h	709.7	1108.8	1117.1	1165.7	1200.4	1228.2	1252.0	1273.3	1293.0	1311.5	1329.0	1353.6	1392.1	1463.5	1529.2	1591.7
	s	0.8948	1.2521	1.2595	1.3025	1.3327	1.3565	1.3765	1.3941	1.4101	1.4249	1.4387	1.4577	1.4866	1.5372	1.5807	1.6196
2350 (659.00)	Sh			1.00	21.00	41.00	61.00	81.00	101.00	121.00	141.00	161.00	191.00	241.00	341.00	441.00	541.00
	v	0.0277	0.1462	0.1479	0.1725	0.1901	0.2046	0.2172	0.228								

Superheat Engineering Data

Abs. Press. Lb./Sq. In. (Sat. Temp.)			Sat. Water	Sat. Steam	TEMPERATURE—DEGREES FAHRENHEIT												
			680°	700°	720°	740°	760°	780°	800°	820°	850°	900°	950°	1000°	1100°	1200°	
2450 (665.12)	Sh		14.88	34.88	54.88	74.88	94.88	114.88	134.88	154.88	184.88	234.88	284.88	334.88	434.88	534.88	
	v	0.0283	0.1360	0.1567	0.1750	0.1902	0.2032	0.2147	0.2250	0.2347	0.2440	0.2569	0.2766	0.2954	0.3130	0.3458	0.3764
	h	724.6	1096.3	1142.3	1181.3	1212.9	1239.5	1262.8	1283.5	1302.9	1321.4	1347.1	1386.3	1423.8	1459.0	1525.6	1588.9
	s	0.9076	1.2381	1.2787	1.3127	1.3397	1.3620	1.3813	1.3981	1.4136	1.4282	1.4481	1.4774	1.5045	1.5290	1.5732	1.6125
2500 (668.10)	Sh		11.90	31.90	51.90	71.90	91.90	111.90	131.90	151.90	181.90	231.90	281.90	331.90	431.90	531.90	
	v	0.0287	0.1313	0.1488	0.1680	0.1834	0.1967	0.2083	0.2188	0.2285	0.2375	0.2503	0.2700	0.2884	0.3058	0.3381	0.3683
	h	730.7	1091.0	1131.9	1173.9	1206.8	1234.5	1258.6	1280.1	1299.9	1318.3	1344.2	1384.3	1421.8	1457.3	1524.2	1587.9
	s	0.9127	1.2322	1.2683	1.3048	1.3329	1.3562	1.3761	1.3936	1.4095	1.4240	1.4440	1.4740	1.5011	1.5258	1.5701	1.6097
2550 (671.03)	Sh		8.97	28.97	48.97	68.97	88.97	108.97	128.97	148.97	178.97	228.97	278.97	328.97	428.97	528.97	
	v	0.0291	0.1264	0.1408	0.1606	0.1766	0.1902	0.2025	0.2125	0.2223	0.2315	0.2440	0.2634	0.2817	0.2989	0.3308	0.3604
	h	736.7	1085.6	1120.0	1164.7	1199.8	1228.9	1254.0	1276.0	1296.5	1315.6	1341.5	1381.8	1419.8	1455.6	1522.9	1586.7
	s	0.9179	1.2265	1.2568	1.2957	1.3257	1.3502	1.3709	1.3888	1.4052	1.4202	1.4402	1.4704	1.4979	1.5228	1.5674	1.6070
2600 (673.91)	Sh		6.09	26.09	46.09	66.09	86.09	106.09	126.09	146.09	176.09	226.09	276.09	326.09	426.09	526.09	
	v	0.0295	0.1219	0.1323	0.1541	0.1706	0.1842	0.1961	0.2066	0.2164	0.2256	0.2380	0.2573	0.2754	0.2924	0.3237	0.3530
	h	743.1	1080.1	1106.0	1157.0	1194.0	1223.9	1249.7	1272.2	1293.1	1312.6	1338.9	1379.7	1418.1	1454.2	1521.6	1585.8
	s	0.9232	1.2205	1.2433	1.2877	1.3193	1.3444	1.3657	1.3840	1.4008	1.4161	1.4364	1.4670	1.4947	1.5199	1.5645	1.6044
2650 (676.75)	Sh		3.25	23.25	43.25	63.25	83.25	103.25	123.25	143.25	173.25	223.25	273.25	323.25	423.25	523.25	
	v	0.0300	0.1173	0.1235	0.1469	0.1640	0.1782	0.1903	0.2009	0.2108	0.2200	0.2322	0.2514	0.2691	0.2859	0.3169	0.3458
	h	749.5	1074.5	1090.1	1146.8	1186.4	1218.3	1245.1	1268.3	1289.9	1309.9	1336.2	1377.5	1415.9	1452.2	1520.2	1584.7
	s	0.9287	1.2147	1.2284	1.2777	1.3116	1.3384	1.3606	1.3794	1.3967	1.4125	1.4328	1.4637	1.4914	1.5167	1.5618	1.6018
2700 (679.54)	Sh		20.46	40.46	60.46	80.46	100.46	120.46	140.46	160.46	170.46	220.46	270.46	320.46	420.46	520.46	
	v	0.0305	0.1123	0.1402	0.1581	0.1725	0.1846	0.1954	0.2053	0.2147	0.2229	0.2358	0.2548	0.2632	0.2798	0.3105	0.3389
	h	756.1	1068.3	1137.5	1179.7	1213.0	1240.3	1264.5	1286.5	1307.2	1334.0	1375.7	1414.0	1450.6	1519.2	1583.8	
	s	0.9342	1.2082	1.2684	1.3045	1.3325	1.3550	1.3747	1.3923	1.4086	1.4293	1.4606	1.4882	1.5137	1.5592	1.5993	
2750 (682.28)	Sh		17.72	37.72	57.72	77.72	97.72	117.72	137.72	157.72	167.72	217.72	267.72	317.72	417.72	517.72	
	v	0.0310	0.1077	0.1335	0.1520	0.1670	0.1794	0.1902	0.2000	0.2094	0.2215	0.2402	0.2576	0.2740	0.3043	0.3322	
	h	763.0	1061.8	1127.1	1172.2	1207.4	1236.0	1260.8	1283.0	1304.2	1331.4	1373.3	1412.2	1449.2	1518.0	1582.8	
	s	0.9399	1.2016	1.2583	1.2969	1.3265	1.3501	1.3703	1.3881	1.4048	1.4258	1.4572	1.4853	1.5110	1.5566	1.5969	
2800 (684.98)	Sh		15.02	35.02	55.02	75.02	95.02	115.02	135.02	155.02	165.02	215.02	265.02	315.02	415.02	515.02	
	v	0.0316	0.1032	0.1267	0.1461	0.1615	0.1741	0.1851	0.1950	0.2045	0.2166	0.2351	0.2521	0.2685	0.2983	0.3258	
	h	770.0	1054.6	1115.9	1164.5	1201.5	1231.3	1257.0	1279.8	1301.7	1329.3	1371.5	1410.4	1447.9	1517.0	1581.9	
	s	0.9458	1.1944	1.2476	1.2892	1.3203	1.3449	1.3658	1.3840	1.4013	1.4226	1.4542	1.4823	1.5084	1.5542	1.5945	
2850 (687.65)	Sh		12.35	32.35	52.35	72.35	92.35	112.35	132.35	152.35	162.35	212.35	262.35	312.35	412.35	512.35	
	v	0.0322	0.0986	0.1198	0.1404	0.1563	0.1690	0.1801	0.1903	0.1995	0.2117	0.2298	0.2469	0.2629	0.2925	0.3197	
	h	777.5	1046.6	1103.5	1156.6	1195.8	1226.5	1252.9	1276.9	1298.4	1326.8	1368.9	1408.7	1446.0	1515.8	1581.1	
	s	0.9521	1.1866	1.2359	1.2813	1.3143	1.3397	1.3611	1.3803	1.3973	1.4192	1.4507	1.4795	1.5055	1.5517	1.5923	
2900 (690.26)	Sh		9.74	29.74	49.74	69.74	89.74	109.74	129.74	149.74	159.74	209.74	259.74	309.74	409.74	509.74	
	v	0.0329	0.0941	0.1126	0.1348	0.1511	0.1641	0.1754	0.1855	0.1949	0.2069	0.2250	0.2418	0.2578	0.2870	0.3138	
	h	785.2	1038.1	1089.2	1148.3	1189.5	1221.6	1249.1	1273.3	1295.7	1324.2	1367.1	1406.9	1444.8	1514.8	1580.2	
	s	0.9586	1.1785	1.2228	1.2733	1.3080	1.3345	1.3569	1.3762	1.3939	1.4159	1.4480	1.4767	1.5032	1.5495	1.5902	
2950 (692.83)	Sh		7.17	27.17	47.17	67.17	87.17	107.17	127.17	147.17	157.17	207.17	257.17	307.17	407.17	507.17	
	v	0.0337	0.0895	0.1052	0.1292	0.1460	0.1593	0.1708	0.1809	0.1902	0.2023	0.2202	0.2369	0.2527	0.2815	0.3081	
	h	793.6	1028.9	1073.2	1139.5	1183.1	1216.6	1245.1	1269.8	1292.5	1321.7	1364.9	1405.1	1443.2	1513.5	1579.4	
	s	0.9655	1.1697	1.2080	1.2647	1.3014	1.3290	1.3522	1.3720	1.3898	1.4124	1.4448	1.4738	1.5004	1.5469	1.5879	
3000 (695.37)	Sh		4.63	24.63	44.63	64.63	84.63	104.63	124.63	144.63	154.63	204.63	254.63	304.63	404.63	504.63	
	v	0.0346	0.0849	0.0972	0.1236	0.1410	0.1546	0.1661	0.1763	0.1856	0.1978	0.2155	0.2322	0.2478	0.2763	0.3027	
	h	802.6	1019.3	1054.0	1130.3	1176.4	1211.4	1240.6	1266.0	1289.0	1319.0	1362.5	1403.4	1441.7	1512.4	1578.9	
	s	0.9731	1.1607	1.1907	1.2559	1.2947	1.3236	1.3474	1.3677	1.3858	1.4090	1.4416	1.4711	1.4978	1.5447	1.5860	
3050 (697.84)	Sh		2.16	22.16	42.16	62.16	82.16	102.16	122.16	142.16	152.16	202.16	252.16	302.16	402.16	502.16	
	v	0.0357	0.0804	0.0868	0.1183	0.1361	0.1499	0.1617	0.1719	0.1812	0.1935	0.2111	0.2275	0.2431	0.2712	0.2973	
	h	812.9	1007.7	1025.0	1121.2	1169.6	1205.9	1236.3	1262.4	1285.7	1316.4	1360.4	1401.3	1440.2	1511.1	1577.9	
	s	0.9818	1.1501	1.1650	1.2472	1.2879	1.3179	1.3437	1.3635	1.3819	1.4056	1.4386	1.4681	1.4952	1.5422	1.5837	
3100 (700.29)	Sh		19.71	39.71	59.71	79.71	99.71	119.71	139.71	159.71	169.71	219.71	269.71	319.71	419.71	519.71	
	v	0.0372	0.0752	0.1128	0.1312	0.1456	0.1576	0.1680	0.1771	0.1891	0.2068	0.2231	0.2385	0.2663	0.2921		
	h	824.6	994.0	1110.8	1162.4	1200.9	1232.5	1259.4	1282.7	1313.4	1358.2	1399.5	1438.7	1493.7	1509.9	1577.0	
	s	0.9916	1.1376	1.2374	1.2808	1.3126	1.3383	1.3599	1.3782	1.4019	1.4355	1.4653	1.4926	1.5398	1.5815		
3150 (702.69)	Sh		17.31	37.31	57.31	77.31	97.31	117.31	137.31	157.31	167.31	217.31	267.31	317.31	417.31	517.31	
	v	0.0392	0.0691	0.1075	0.1266	0.1410	0.1532	0.1636	0.1729	0.1850	0.2024	0.2187	0.2341	0.2615	0.2871		
	h	841.3	976.3	1100.3	1155.3	1194.7	1227.6	1254.9	1279.2	1310.5	1355.5	1397.5	1437.2	1508.6	1576.1		
	s	1.0056	1.1217	1.2276	1.2738	1.3064	1.3331	1.3550									