

STANDARD AND REFERENCE ATMOSPHERES

Table 14-2a. Reference Atmosphere Temp (K)—January

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N
0.000	299.15	296.65	287.15	272.15	257.15	248.15	237.15
2.000	288.78	287.27	281.16	265.15	255.94	251.37	245.88
4.000	278.41	277.90	268.20	255.66	247.73	240.36	236.61
6.000	268.06	266.28	255.24	243.68	234.13	229.35	226.60
8.000	256.40	252.35	242.28	231.71	220.54	218.35	216.59
10.000	240.49	238.42	229.34	219.74	217.15	214.14	212.64
12.000	224.58	224.50	216.40	218.65	217.15	212.14	210.64
14.000	208.69	210.59	211.08	217.66	217.15	210.14	208.63
16.000	197.34	199.46	205.91	216.67	216.66	208.15	204.64
18.000	195.03	195.15	203.15	215.67	215.66	206.16	200.65
20.000	201.37	203.65	207.73	215.15	214.66	204.16	196.67
22.000	207.71	212.57	212.49	215.15	213.67	202.93	196.65
24.000	214.05	217.22	217.25	215.15	212.68	204.12	196.65
26.000	220.38	221.58	221.79	215.15	212.98	205.32	196.65
28.000	226.71	225.93	225.36	217.08	214.77	206.51	196.65
30.000	232.70	230.28	228.92	221.44	216.55	209.00	203.04
32.000	236.65	234.63	233.13	225.79	218.34	212.97	209.59
34.000	240.60	238.97	237.67	230.15	220.12	216.94	216.14
36.000	244.55	244.29	242.24	235.54	222.07	220.90	222.69
38.000	249.66	250.20	246.98	241.47	224.25	224.86	229.23
40.000	254.98	256.12	251.71	247.40	226.43	228.82	232.98
42.000	260.30	262.02	256.45	253.32	232.87	232.78	236.55
44.000	265.61	265.70	261.17	259.24	239.78	236.74	240.11
46.000	270.92	268.84	265.65	262.82	245.16	240.69	243.67
48.000	272.15	271.15	265.65	264.65	247.93	244.64	247.22
50.000	272.15	271.15	265.65	264.65	250.69	248.59	250.78
52.000	269.12	268.95	261.73	261.41	251.15	252.53	252.15
54.000	265.01	264.43	256.62	255.51	251.15	255.15	252.15
56.000	260.71	259.92	251.65	250.83	250.93	254.06	
58.000	255.61	254.49	247.13	247.29	250.54	250.72	
60.000	250.52	249.01	242.62	243.76	250.11	247.37	
62.000	245.44	243.53	238.12	240.22	245.59	244.03	
64.000	240.35	238.05	233.61	236.69	241.08	240.69	
66.000	235.27	232.58	229.11	233.17	238.65	238.52	
68.000	230.19	226.62	224.62	229.64	238.65	240.09	
70.000	225.12	228.57	220.12	226.12	238.65	241.66	
72.000	217.25	214.88	218.15	225.65	238.07	239.43	
74.000	206.72	210.20	218.15	225.65	234.16	235.52	
76.000	196.20	205.53	216.35	223.44	230.25	231.60	
78.000	195.65	200.85	212.84	219.54	226.34	227.69	
80.000	195.65	198.15	209.33	215.63	222.43	223.77	
82.000	195.65	198.15	205.83	212.50	218.53	219.87	
84.000	195.65	198.15	202.32	210.16	214.65	215.96	
86.000	194.59	196.97	198.82	207.82	214.65	214.15	
88.000	191.29	193.48	195.33	205.49	214.65	214.15	
90.000	187.99	189.99	191.83	203.15	214.65	214.15	

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Table 14-2b. Reference Atmosphere Temp (K)—April

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N
0.000	300.15	297.15	292.15	279.15	269.15	255.15	248.65
2.000	288.98	286.97	282.16	273.15	263.14	254.88	252.12
4.000	277.82	276.81	272.19	263.66	257.13	244.86	242.11
6.000	266.67	264.78	260.24	250.68	243.13	233.85	232.10
8.000	254.63	250.85	246.29	237.71	229.14	222.85	222.09
10.000	239.71	236.92	232.35	224.75	222.15	222.56	221.91
12.000	224.81	223.00	218.42	218.15	222.15	224.15	224.15
14.000	209.91	209.09	213.47	218.15	222.15	224.15	224.15
16.000	198.56	200.02	208.69	218.15	222.15	224.15	224.15
18.000	196.12	196.15	206.15	218.15	222.15	224.15	224.15
20.000	202.66	204.84	210.92	218.15	222.15	224.15	224.15
22.000	209.20	213.96	215.88	218.15	222.15	224.15	224.15
24.000	215.74	221.02	220.46	220.26	222.15	224.15	224.66
26.000	222.27	225.38	225.02	223.24	223.17	224.15	226.85
28.000	228.39	229.73	229.57	226.21	225.35	224.15	229.04
30.000	233.93	234.08	234.13	229.54	227.53	227.61	231.23
32.000	239.46	238.43	238.68	234.49	231.97	231.97	233.41
34.000	244.98	242.77	243.05	239.44	236.53	234.76	236.16
36.000	250.51	247.24	247.39	244.54	241.59	238.33	241.12
38.000	256.03	252.77	251.73	250.47	247.33	241.89	246.08
40.000	261.54	258.28	256.07	256.40	253.07	248.03	251.03
42.000	267.06	263.80	260.41	261.09	258.80	254.36	255.98
44.000	269.72	268.24	263.77	265.04	264.53	260.69	260.93
46.000	271.69	270.21	266.92	268.08	269.24	267.02	265.87
48.000	272.15	272.15	269.15	271.65	272.20	273.34	270.15
50.000	272.15	272.15	269.15	271.65	274.15	274.15	270.15
52.000	269.27	269.52	267.98	269.06	274.15	274.15	270.15
54.000	265.35	265.99	263.46	264.34	270.80	272.01	270.15
56.000	261.42	261.78	258.95	259.62	264.90	265.71	
58.000	256.93	254.72	253.74	254.31	259.00	259.41	
60.000	249.49	247.67	248.25	249.01	253.10	253.11	
62.000	242.05	240.62	242.76	243.71	247.21	246.82	
64.000	234.62	233.58	237.28	238.42	241.31	240.53	
66.000	227.20	226.54	231.80	233.13	236.24	234.24	
68.000	219.76	219.51	226.20	229.09	232.12	230.47	
70.000	211.95	212.48	220.53	225.53	228.01	226.75	
72.000	204.15	205.86	214.87	221.26	223.90	223.02	
74.000	196.35	199.62	209.21	217.35	219.79	219.30	
76.000	188.55	193.39	203.55	213.44	215.33	215.58	
78.000	190.73	193.15	200.17	209.54	210.25	209.96	
80.000	193.45	193.15	199.20	205.63	205.17	204.09	
82.000	196.40	195.44	198.22	201.11	200.09	198.23	
84.000	199.70	197.97	197.25	196.13	195.02	192.37	
86.000	203.00	200.49	196.28	191.27	189.95	186.51	
88.000	206.30	203.02	195.31	189.65	184.88	180.66	
90.000	209.60	205.54	194.34	189.65	179.81	176.15	

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Table 14-2c. Reference Atmosphere Temp (K)—July

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N
0.000	298.65	299.65	301.15	294.15	287.15	275.65	273.15
2.000	287.68	288.87	288.16	285.15	276.34	273.62	271.12
4.000	276.72	278.11	277.19	273.16	265.53	260.60	260.09
6.000	265.77	267.35	266.22	261.18	253.13	247.59	246.88
8.000	254.82	255.38	252.29	248.21	239.14	234.59	233.67
10.000	238.99	238.46	238.35	235.25	225.17	228.55	228.76
12.000	223.08	223.55	224.42	222.29	225.15	229.35	231.15
14.000	207.19	207.65	210.49	215.65	225.15	230.15	231.15
16.000	198.59	200.30	203.15	215.65	225.15	230.15	231.15
18.000	201.05	202.87	207.38	216.78	225.15	230.15	231.15
20.000	207.99	208.82	211.75	219.17	225.15	230.15	231.15
22.000	214.92	214.76	216.11	221.55	225.15	230.15	231.15
24.000	219.97	220.71	220.47	223.75	227.03	230.15	231.15
26.000	224.13	224.81	224.83	225.93	231.00	232.62	233.48
28.000	228.28	228.77	229.19	229.16	234.97	237.79	236.67
30.000	232.43	232.72	233.55	233.72	239.18	242.95	239.84
32.000	236.58	236.68	237.90	238.28	244.33	248.12	243.02
34.000	240.72	240.63	237.90	238.28	244.33	248.12	249.82
36.000	244.87	244.57	246.59	247.38	254.64	258.64	256.76
38.000	249.01	248.59	251.45	251.93	259.78	263.29	263.70
40.000	253.14	252.78	256.38	256.47	264.83	268.24	270.63
42.000	257.28	256.86	261.31	261.01	270.07	273.19	275.90
44.000	261.84	260.99	264.44	265.55	275.20	278.14	278.86
46.000	266.76	265.13	267.19	270.09	278.13	283.08	281.83
48.000	269.15	268.15	269.15	273.15	279.15	283.65	283.65
50.000	269.15	268.15	269.15	273.15	279.15	283.65	283.65
52.000	266.56	266.71	267.34	272.91	277.60	283.65	283.65
54.000	263.03	263.77	264.98	267.01	272.87	283.23	283.65
56.000	258.78	258.71	261.50	260.61	268.15	278.30	
58.000	251.33	251.07	254.04	253.73	263.43	273.38	
60.000	243.89	243.43	246.59	246.86	258.71	268.46	
62.000	236.45	235.80	239.14	239.99	252.79	263.41	
64.000	229.02	228.17	231.70	233.13	243.17	252.01	
66.000	221.57	220.54	224.27	226.27	233.56	240.62	
68.000	213.76	212.92	216.83	219.41	223.95	229.23	
70.000	205.95	205.31	209.41	212.56	214.34	217.86	
72.000	198.15	201.81	204.50	205.72	204.75	206.49	
74.000	192.59	199.47	201.58	198.88	195.16	195.12	
76.000	194.54	197.65	198.65	192.70	185.57	183.76	
78.000	196.49	197.65	195.72	188.01	175.99	172.41	
80.000	198.44	197.65	192.80	183.33	166.42	161.07	
82.000	199.65	197.65	189.88	178.65	157.09	149.73	
84.000	199.65	197.65	186.96	173.97	155.13	147.01	
86.000	197.85	193.52	184.04	169.30	153.18	146.23	
88.000	192.22	188.66	181.13	164.63	151.23	145.45	
90.000	186.59	183.81	178.22	164.15	149.29	144.67	

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Table 14-2d. Reference Atmosphere Temp (K)—October

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N
0.000	299.15	298.15	293.65	284.15	275.15	262.65	252.65
2.000	288.38	288.57	283.66	274.15	267.14	259.44	254.37
4.000	277.62	277.81	273.69	263.16	259.13	248.85	243.35
6.000	265.69	266.66	261.74	251.18	246.13	235.84	232.34
8.000	252.55	254.56	247.79	239.21	233.14	222.84	221.34
10.000	239.43	239.44	233.85	227.24	220.16	219.65	220.16
12.000	223.58	224.33	219.92	215.28	220.15	219.65	222.14
14.000	207.69	209.23	211.85	215.15	220.15	219.65	220.14
16.000	196.77	197.92	203.89	215.15	220.15	219.65	218.14
18.000	199.19	200.82	203.65	215.15	219.86	217.66	216.15
20.000	206.33	207.76	205.96	215.15	218.67	215.66	214.16
22.000	213.09	214.70	210.92	217.07	217.47	213.67	212.16
24.000	218.24	219.59	215.88	219.06	218.30	211.68	210.17
26.000	223.39	224.35	219.52	221.04	219.89	211.79	210.15
28.000	228.53	229.09	223.09	223.02	221.48	214.17	210.15
30.000	233.67	223.84	226.66	225.00	223.06	216.56	210.15
32.000	238.78	238.58	230.22	227.91	224.65	218.94	210.15
34.000	243.72	243.32	233.78	232.07	227.87	221.32	213.99
36.000	248.65	248.30	237.34	236.22	231.83	225.02	217.96
38.000	253.58	253.43	241.77	240.37	235.79	230.37	221.93
40.000	258.50	258.55	246.70	244.52	339.75	235.71	225.89
42.000	263.32	263.67	251.63	249.68	244.59	241.06	231.71
44.000	266.47	266.72	256.56	256.59	249.53	246.40	237.65
46.000	269.62	269.28	261.49	261.82	254.47	251.73	243.58
48.000	271.15	271.15	266.25	266.75	259.40	257.06	249.51
50.000	271.15	271.15	267.65	267.65	260.15	262.39	253.15
52.000	267.84	267.07	267.65	266.08	260.15	263.15	253.15
54.000	263.33	261.57	263.43	260.77	257.14	263.15	253.15
56.000	258.60	255.93	257.93	255.47	251.82	259.05	
58.000	252.92	249.66	252.52	249.72	246.51	251.96	
60.000	247.24	243.39	247.42	243.83	241.20	244.88	
62.000	240.21	236.37	242.32	237.94	235.90	237.80	
64.000	232.39	228.94	232.13	233.42	232.20	230.72	
66.000	224.57	221.51	227.04	229.50	230.24	227.15	
68.000	216.76	214.08	221.96	225.59	228.28	227.15	
70.000	208.95	206.66	216.88	221.67	226.32	227.15	
72.000	201.15	201.09	211.80	217.76	224.36	227.15	
74.000	195.15	197.19	206.72	213.85	222.40	225.52	
76.000	195.15	195.15	201.65	209.94	218.75	221.60	
78.000	195.15	195.15	200.67	206.04	214.84	217.69	
80.000	195.15	195.15	199.70	202.15	210.93	213.77	
82.000	195.15	195.15	199.65	202.15	207.03	209.87	
84.000	195.15	195.15	199.65	202.15	204.15	205.96	
86.000	195.15	195.15	199.65	202.15	204.15	205.15	
88.000	195.15	195.15	199.65	202.15	204.15	205.15	
90.000	195.15	195.15	199.65	202.15	204.15	205.15	

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Table 14-2e. Reference Atmosphere Density (kg/m³)—January

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N	
0.000	1.1761	1.1891	1.2363	1.3013	1.3742	1.4244	1.4910	+ 0*
2.000	9.6636	9.7230	9.9321	1.0357	1.0590	1.0711	1.0854	
4.000	7.8839	7.8982	8.1234	8.2700	8.3466	8.4810	8.4962	— 1
6.000	6.3834	6.4218	6.5793	6.6018	6.6507	6.6428	6.6028	
8.000	5.1518	5.2127	5.2712	5.2114	5.2286	5.1417	5.0740	
10.000	4.1779	4.1820	4.1727	4.0631	3.8811	3.8185	3.7553	
12.000	3.3404	3.3114	3.2591	2.9928	2.8353	2.7984	2.7457	
14.000	2.6276	2.5835	2.4310	3.2009	2.0717	2.0452	2.0020	
16.000	1.9873	1.9567	1.7992	1.6165	1.5172	1.4905	1.4674	
18.000	1.4185	1.4158	1.3073	1.1859	1.1126	1.0832	1.0692	
20.000	0.9761	9.6547	9.1885	8.6716	8.1486	7.8497	7.7432	— 2
22.000	6.7966	6.6802	6.5057	6.3254	5.9605	5.6510	5.4786	
24.000	4.7853	4.7721	4.6425	4.6148	4.3545	4.0226	3.8768	
26.000	3.4046	3.4372	3.3411	3.3675	3.1592	2.8697	2.7438	
28.000	2.4462	2.4921	2.4296	2.4375	2.2814	2.0517	1.9256	
30.000	1.7766	1.8183	1.7760	1.7546	1.6522	1.4615	1.3392	
32.000	1.3103	1.3348	1.3015	1.2715	1.2000	1.0400	9.3378	
34.000	0.9715	0.9857	0.9582	0.9272	0.8740	0.7448	0.6584	
36.000	7.2401	7.2933	7.0967	6.7763	6.3791	5.3685	4.6932	— 3
38.000	5.3993	5.4221	5.2832	4.9797	4.6657	3.8925	3.3786	
40.000	4.0487	4.0598	3.9559	3.6876	3.4235	2.8388	2.4805	
42.000	3.0546	3.0605	2.9787	2.7508	2.4799	2.0819	1.8316	
44.000	2.3182	2.3396	2.2549	2.0662	1.8100	1.5352	1.3589	
46.000	1.7692	1.7981	1.7174	1.5752	1.3411	1.1379	1.0128	
48.000	1.3760	1.3906	1.3334	1.2119	1.0088	0.8477	0.7582	
50.000	1.0753	1.0856	1.0354	0.9399	0.7615	0.6347	0.5700	
52.000	8.4906	8.5422	8.1503	7.3740	5.8134	4.7744	0.4338	— 4
54.000	6.7090	6.7568	6.4162	5.8169	4.4471	3.6259	3.3209	
56.000	5.2860	5.3239	5.0251	4.5435	3.4051	2.7964		
58.000	4.1600	4.1913	3.9109	3.5198	2.6086	2.1707		
60.000	3.2586	3.2837	3.0303	2.7172	1.9082	1.6796		
62.000	2.5402	2.5592	2.3371	2.0900	1.5522	1.2952		
64.000	1.9702	1.9835	1.7939	1.6016	1.2002	0.9954		
66.000	1.5200	1.5285	1.3701	1.2227	0.9162	0.7587		
68.000	1.1663	1.1730	1.0410	0.9297	0.6920	0.5695		
70.000	8.8979	8.9430	7.8672	7.0413	5.2271	0.4284		
72.000	6.8278	6.7570	5.8499	5.2477	3.9583	0.3275		
74.000	5.2406	5.0487	4.3090	3.9033	3.0319	2.5119		— 5
76.000	3.9678	3.7483	3.1989	2.9301	2.3122	1.9182		
78.000	2.8323	2.7644	2.3840	2.2067	1.7555	1.4583		
80.000	2.0164	2.0059	1.7683	1.6538	1.3267	1.1037		
82.000	1.4358	1.4343	1.3053	1.2290	0.9979	0.8313		
84.000	1.0226	1.0258	0.9587	0.9069	7.4677	0.6231		— 6
86.000	7.3229	7.3799	7.0051	6.6705	5.4751	4.6052		
88.000	5.2827	5.3488	5.0910	4.8902	4.0150	3.3735		
90.000	3.7900	3.8549	3.6793	3.5731	2.9448	2.4717		

*Power of 10 by which preceding numbers should be multiplied.

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Table 14-2f. Reference Atmosphere Density (kg/m³)—April

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N	
0.000	1.1716	1.1857	1.2113	1.2678	1.3116	1.3884	1.4297	+ 0*
2.000	9.6565	9.7223	9.8903	1.0117	1.0375	1.0635	1.0745	
4.000	7.8992	7.9159	8.0172	8.1340	8.1648	8.4225	8.4831	− 1
6.000	6.4096	6.4388	6.4947	6.5615	6.5709	6.6274	6.6313	
8.000	5.1728	5.2202	5.2446	5.2336	5.2213	5.1557	5.1285	
10.000	4.1737	4.1823	4.1832	4.1224	3.9711	3.7924	3.7669	
12.000	3.3219	3.3066	3.2908	3.1158	2.9216	2.7756	2.7470	
14.000	2.6032	2.5754	2.4578	2.2808	2.1499	2.0475	2.0262	
16.000	1.9726	1.9299	1.8223	1.6700	1.5823	1.5106	1.4947	
18.000	1.4115	1.3954	1.3288	1.2229	1.1648	1.1147	1.1029	
20.000	0.9725	9.5265	9.3798	8.9578	8.5768	8.2281	8.1399	− 2
22.000	6.7816	6.6002	6.6703	6.5625	6.3162	6.0742	6.0084	
24.000	4.7828	4.6845	4.7883	4.7676	4.6523	4.4850	4.4260	
26.000	3.4092	3.3930	3.4617	3.4649	3.4129	3.3122	3.2438	
28.000	2.4585	2.4733	2.5195	2.5294	2.4976	2.4465	2.3849	
30.000	1.7923	1.8140	1.8456	1.8516	1.8336	1.7839	1.7589	
32.000	1.3165	1.3383	1.3603	1.3540	1.3391	1.3068	1.3011	
34.000	0.9741	0.9929	1.0092	0.9968	0.9836	0.9621	0.9631	− 3
36.000	7.2575	7.4043	7.5300	7.3817	7.2550	7.1172	7.1019	
38.000	5.4428	5.5315	5.6476	5.4858	5.3740	5.2896	5.2700	
40.000	4.1077	4.1592	4.2575	4.1059	4.0089	3.9134	3.9347	
42.000	3.1189	3.1468	3.2253	3.1075	3.0108	2.9155	2.9550	
44.000	2.4044	2.4043	2.4632	2.3692	2.2758	2.1882	2.2319	
46.000	1.8624	1.8595	1.8890	1.8139	1.7371	1.6540	1.6949	
48.000	1.4527	1.4412	1.4582	1.4007	1.7371	1.6540	1.6949	
50.000	1.1352	1.1262	1.1360	1.0933	1.0396	0.9812	1.0104	
52.000	8.9597	8.8794	8.8895	8.6128	8.1322	7.6739	0.7872	− 4
54.000	7.0759	7.0044	7.0239	6.8140	6.4353	6.0473	6.1347	
56.000	5.5694	5.5228	5.5281	5.3690	5.1181	4.8196		
58.000	4.3781	4.3794	4.3441	4.2210	4.0501	3.8208		
60.000	3.4619	3.4507	3.4001	3.3023	3.1882	3.0122		
62.000	2.7184	2.7007	2.6471	2.5703	2.4960	2.3609		
64.000	2.1189	2.0987	2.0495	1.9898	1.9429	1.8391		
66.000	1.6387	1.6186	1.5776	1.5319	1.4984	1.4234		
68.000	1.2568	1.2384	1.2075	1.1670	1.1456	1.0840		
70.000	9.5682	9.3944	9.1854	8.8452	8.7179	0.8218		− 5
72.000	7.2109	7.0488	6.9386	6.6727	6.6024	0.6203		
74.000	5.3759	5.2331	5.2032	5.0094	4.9755	4.6613		
76.000	3.9611	3.8493	3.8718	3.7419	3.7359	3.4859		
78.000	2.7561	2.7309	2.8279	2.7806	2.7954	2.6145		
80.000	1.9224	1.9355	2.0362	2.0551	2.0773	1.9477		
82.000	1.3465	1.3584	1.4640	1.5152	1.5325	1.4389		− 6
84.000	0.9471	0.9568	1.0512	1.1105	1.1220	1.0535		
86.000	6.7014	6.7706	7.5368	8.0774	8.1494	7.6418		
88.000	4.7692	4.8129	5.3958	5.7400	5.8691	5.4874		
90.000	3.4132	3.4364	3.8574	4.0433	4.1894	3.8701		

*Power of 10 by which preceding numbers should be multiplied.

STANDARD AND REFERENCE ATMOSPHERES

Table 14-2g. Reference Atmosphere Density (kg/m³)—July

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N	
0.000	1.1797	1.1751	1.1717	1.2003	1.2252	1.2778	1.2919	+0*
2.000	9.7077	9.6694	9.7103	0.9780	0.9987	1.0032	1.0120	
4.000	7.9287	7.8986	7.9314	7.9946	8.0757	8.1533	8.1528	—1
6.000	6.4239	6.4017	6.4266	6.4769	6.5120	6.5568	6.5576	
8.000	5.1594	5.1685	5.2140	5.2145	5.2231	5.2120	5.2124	
10.000	4.1775	4.1875	4.1827	4.1502	4.1345	3.9747	3.9519	
12.000	3.3352	3.3444	3.3109	3.2612	3.0546	2.9399	2.9076	
14.000	2.6191	2.6275	2.5823	2.4580	2.2570	2.1773	2.1645	
16.000	1.9556	1.9493	1.9214	1.7932	1.6679	1.6192	1.6116	
18.000	1.3723	1.3730	1.3521	1.3021	1.2329	1.2043	1.2001	
20.000	0.9525	9.5976	9.5807	9.4313	9.1149	8.9601	8.9390	—2
22.000	6.6925	6.7780	6.8380	6.8564	6.7399	6.6671	6.6592	
24.000	4.7926	4.8334	4.9144	5.0062	4.9463	4.9618	4.9518	
26.000	3.4691	3.5029	3.5556	3.6673	3.6143	3.6569	3.6647	
28.000	2.5265	2.5552	2.5891	2.6835	2.6556	2.6803	2.7081	
30.000	1.8509	1.8743	1.8969	1.9638	1.9598	1.9781	2.0097	
32.000	1.3637	1.3823	1.3981	1.4460	1.4495	1.4694	1.4975	
34.000	1.0103	1.0248	1.0363	1.0712	1.0791	1.0985	1.1062	
36.000	7.5248	7.6366	7.7248	7.9815	8.0839	8.2646	8.2372	—3
38.000	5.6332	5.7168	5.7779	5.9797	5.0918	6.2554	6.1828	
40.000	4.2381	4.2984	4.3456	4.5040	4.6169	4.7601	4.6763	
42.000	3.2037	3.2475	3.2867	3.4100	3.5184	3.6410	3.5820	
44.000	2.4293	2.4650	2.5144	2.5946	2.6955	2.7989	2.7782	
46.000	1.8493	1.8795	1.9321	1.9836	2.0908	2.1619	2.1604	
48.000	1.4275	1.4450	1.4931	1.5315	1.6358	1.7007	1.6911	
50.000	1.1125	1.1250	1.1632	1.1971	1.2850	1.3408	1.3332	
52.000	8.7481	8.8047	9.1197	9.3670	1.0150	1.0572	1.0511	—4
54.000	6.8831	6.9145	7.1504	7.4642	8.0867	8.3501	8.2891	
56.000	5.4137	5.4579	5.6185	5.9204	6.4179	6.6864		
58.000	4.2874	4.3247	4.4591	4.6911	5.0734	5.3337		
60.000	3.3722	3.4028	3.5152	3.6881	3.9941	4.2378		
62.000	2.6331	2.6574	2.7514	2.8804	3.1454	3.3550		
64.000	1.0402	2.0588	2.1373	2.2339	2.4948	2.7023		
66.000	1.5679	1.5815	1.6469	1.7196	1.9607	2.1552		
68.000	1.1961	1.2038	1.2581	1.3134	1.5256	1.7003		—5
70.000	9.0350	9.0750	9.5234	9.9476	1.1742	1.3256		
72.000	6.7522	6.6490	7.0578	7.4673	8.9324	1.0199		
74.000	4.9325	4.8263	5.1557	5.5522	6.7071	7.7331		
76.000	3.4623	3.4821	3.7497	4.0732	4.9649	5.7676		
78.000	2.4394	2.4867	2.7148	2.9407	3.6178	4.2228		
80.000	1.7251	1.7763	1.9564	2.1061	2.5905	3.0274		
82.000	1.2285	1.2690	1.4031	1.4957	1.8162	2.1187		
84.000	0.8809	0.9068	1.0013	1.0528	1.1999	1.3730		—6
86.000	6.3733	6.6002	7.1100	7.3426	7.8878	8.7593		
88.000	4.6691	4.7844	5.0219	5.0703	5.1588	5.5760		
90.000	3.3898	3.4399	3.5279	3.3925	3.3563	3.5420		

*Power of 10 by which preceding numbers should be multiplied.

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Table 14-2h. Reference Atmosphere Density (kg/m³)—October

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N	
0.000	1.1769	1.1816	1.2063	1.2474	1.2795	1.3385	1.3981	+0*
2.000	9.6821	9.6775	9.8598	1.0122	1.0240	1.0425	1.0617	
4.000	7.9068	7.9044	8.0015	8.1810	8.1419	8.3111	8.4294	— 1
6.000	6.4329	6.4133	6.4897	6.5738	6.5407	6.6134	6.6221	
8.000	5.2053	5.1764	5.2471	5.2270	5.1931	5.1955	5.1425	
10.000	4.1652	4.1790	4.1912	4.1081	4.0696	3.8648	3.7877	
12.000	3.3261	3.3274	3.3023	3.1874	2.9860	2.8327	2.7569	
14.000	2.6135	2.6080	2.5021	2.3246	2.1912	2.0766	2.0434	
16.000	1.9701	1.9722	1.8579	1.6946	1.6082	1.5226	1.5107	
18.000	1.3779	1.3810	1.3313	1.2356	1.1821	1.1252	1.1140	
20.000	0.9524	9.5802	9.3893	9.0114	8.7162	8.2945	8.1936	— 2
22.000	6.6793	6.7278	6.6771	6.5238	6.4173	6.0980	6.0101	
24.000	4.7657	4.8169	4.8106	4.7364	4.6790	4.4711	4.3964	
26.000	3.4279	3.4765	3.4862	3.4493	3.4076	3.2395	3.1819	
28.000	2.4848	2.5268	2.5398	2.5196	2.4879	2.3289	2.3031	
30.000	1.8144	1.8489	1.8599	1.8460	1.8208	1.6807	1.6673	
32.000	1.3343	1.3617	1.3687	1.3512	1.3358	1.2175	1.1889	
34.000	0.9885	1.0091	1.0122	0.9890	0.9760	0.8852	0.8528	
36.000	7.3687	7.5165	7.4956	7.2803	7.1469	6.4248	6.1550	— 3
38.000	5.5256	5.6298	5.5731	5.3888	5.2620	4.6616	4.4688	
40.000	4.1672	4.2419	4.1689	4.0101	3.8948	3.4080	3.2409	
42.000	3.1613	3.2145	3.1366	2.9879	2.8883	2.5095	2.3687	
44.000	2.4237	2.4664	2.3732	2.2277	2.1543	1.8607	1.7450	
46.000	1.8643	1.9011	1.8063	1.6837	1.6164	1.3888	1.2952	
48.000	1.4467	1.4728	1.3971	1.2809	1.2197	1.0431	0.9767	
50.000	1.1295	1.1498	1.0869	0.9928	0.9386	0.7882	0.7482	
52.000	8.9199	9.1029	8.5800	7.7661	7.2462	6.0836	0.5732	— 4
54.000	7.0493	7.2119	6.7740	6.1400	5.6554	4.7098	4.3930	
56.000	5.5537	5.6898	5.3200	4.8317	4.4337	3.7001		
58.000	4.3709	4.4754	4.1526	3.7897	3.4585	2.9235		
60.000	3.4219	3.4993	3.2253	2.9575	2.6836	2.2949		
62.000	2.6779	2.7270	2.4920	2.2944	2.0710	1.7889		
64.000	2.0863	2.1125	1.9149	1.7597	1.5788	1.3842		
66.000	1.6118	1.6230	1.4632	1.3402	1.1915	1.9476		
68.000	1.2341	1.2360	1.1114	1.0161	8.9728	0.7798		
70.000	9.3589	9.3244	8.3906	7.6683	6.7413	0.5805		— 5
72.000	7.0241	6.9050	6.2932	5.7589	5.0531	0.4323		
74.000	5.1671	5.0394	4.6880	4.3034	3.7788	3.2416		
76.000	3.6738	3.6236	3.4675	3.1991	2.8382	2.4457		
78.000	2.6127	2.5767	2.5022	2.3654	2.1236	1.8363		
80.000	1.8585	1.8326	1.8032	1.7391	1.5808	1.3719		
82.000	1.3222	1.3036	1.2925	1.2508	1.1705	1.0196		
84.000	0.9409	0.9276	0.9264	0.8998	8.5777	0.7537		— 6
86.000	6.6974	6.6017	6.6420	6.4750	6.1893	5.4678		
88.000	4.7680	4.6993	4.7628	4.6600	4.4668	3.9511		
90.000	3.3951	3.3458	3.4160	3.3544	3.2244	2.8557		

*Power of 10 by which preceding numbers should be multiplied.

STANDARD AND REFERENCE ATMOSPHERES

Table 14-2i. Reference Atmosphere Pressure (mb)—January

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N	
0.000	1.0100	1.0126	1.0191	1.0166	1.0144	1.0147	1.0150	+ 3*
2.000	8.0106	8.0179	8.0160	7.8835	7.7806	7.7293	7.6613	+ 2
4.000	6.3009	6.3007	6.2540	6.0693	5.9354	5.8516	5.7706	
6.000	4.9119	4.9087	4.8205	4.6180	4.4699	4.3734	4.2948	
8.000	3.7918	3.7760	3.6661	3.4662	3.3102	3.2228	3.1547	
10.000	2.8842	2.8621	2.7470	2.5629	2.4192	2.3472	2.2922	
12.000	2.1535	2.1340	2.0245	1.8785	1.7673	1.7041	1.6602	
14.000	1.5741	1.5618	1.4729	1.3751	1.2914	1.2337	1.1990	
16.000	1.1258	1.1203	1.0634	1.0054	1.9436	1.8906	0.8620	+ 1
18.000	7.9414	7.9315	7.6236	7.3420	6.8878	6.4106	6.1588	
20.000	5.6424	5.6442	5.4791	5.3555	5.0213	4.6004	4.3714	
22.000	4.0525	4.0763	3.9683	3.9065	3.6559	3.2919	3.0926	
24.000	2.9403	2.9757	2.8952	2.8501	2.6584	2.3570	2.1884	
26.000	2.1538	2.1863	2.1271	2.0797	1.9314	1.6913	1.5488	
28.000	1.5920	1.6163	1.5717	1.5189	1.4065	1.2162	1.0869	
30.000	1.1867	1.2020	1.1670	1.1153	1.0271	1.8768	1.7805	
32.000	8.9018	8.9907	8.7098	8.2413	0.7521	0.6358	0.5618	+ 0
34.000	6.7103	6.7618	6.5377	6.1259	5.5230	4.6386	4.0855	
36.000	5.0825	5.1143	4.9348	4.5816	4.0665	3.4042	3.0000	
38.000	3.8695	3.8943	3.7456	3.4517	3.0035	2.5126	2.2231	
40.000	2.9634	2.9848	2.8584	2.6188	2.2252	1.8647	1.6590	
42.000	2.2824	2.3019	2.1927	2.0003	1.6577	1.3912	1.2437	
44.000	1.7675	1.7844	1.6905	1.5376	1.2458	1.0432	0.9366	
46.000	1.3759	1.3876	1.3096	1.1884	0.9438	0.7862	0.7084	- 1
48.000	1.0749	1.0823	1.0168	0.9207	7.1802	0.5953	0.5380	
50.000	8.4007	8.4501	7.8958	7.1403	5.4799	0.4529	0.4103	
52.000	6.5594	6.5948	6.1234	5.5334	4.1911	3.4610	3.1400	
54.000	5.1036	5.1289	4.7265	4.2665	3.2060	2.6556	2.4037	
56.000	3.9560	3.9723	3.6300	3.2713	2.4528	2.0394		
58.000	3.0525	3.0619	2.7745	2.4986	1.8761	1.5623		
60.000	2.3434	2.3472	2.1105	1.9012	1.4346	1.1926		
62.000	1.7897	1.7890	1.5975	1.4412	1.0942	1.9073		
64.000	1.3593	1.3554	1.2030	1.0882	1.8306	0.6877		
66.000	1.0265	1.0204	0.9011	0.8184	0.6276	0.5195		- 2
68.000	7.7069	7.6307	6.7122	6.1291	4.7405	0.3925		
70.000	5.7500	5.6623	4.9711	4.5704	3.5808	2.9720		
72.000	4.2580	4.1680	3.6632	3.3991	2.7051	2.2512		
74.000	3.1098	3.0464	2.6983	2.5283	2.0379	1.6982		
76.000	2.2347	2.2114	1.9867	1.8794	1.5282	1.2753		
78.000	1.5906	1.5938	1.4565	1.3907	1.1406	0.9531		
80.000	1.1324	1.1409	1.0626	1.0237	0.8471	0.7089		- 3
82.000	8.0642	8.1586	7.7126	7.4973	6.2598	5.2469		
84.000	5.7436	5.8351	5.5682	5.4712	4.6013	3.8628		
86.000	4.0905	4.1728	3.9981	3.9795	3.3735	2.8309		
88.000	2.9008	2.9707	2.8545	2.8846	2.4738	2.0738		
90.000	2.0453	2.1023	2.0260	2.0837	1.8144	1.5194		

*Power of 10 by which preceding numbers should be multiplied.

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Table 14-2j. Reference Atmosphere Pressure (mb)—April

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N	
0.000	1.0095	1.0114	1.0159	1.0159	1.0134	1.0169	1.0205	+ 3*
2.000	8.0104	8.0090	8.0108	7.9327	7.8374	7.7818	7.7772	+ 2
4.000	6.2997	6.2899	6.2640	6.1568	6.0265	5.9201	5.8956	
6.000	4.9065	4.8940	4.8518	4.7216	4.5860	4.4489	4.4181	
8.000	3.7810	3.7589	3.7079	3.5712	3.4344	3.2982	3.2696	
10.000	2.8720	2.8444	2.7901	2.6596	2.5323	2.4228	2.3996	
12.000	2.1437	2.1167	2.0633	1.9511	1.8631	1.7859	1.7675	
14.000	1.5686	1.5457	1.5060	1.4283	1.3709	1.3174	1.3037	
16.000	1.1243	1.1081	1.0917	1.0457	1.0090	0.9720	0.9617	+ 1
18.000	7.9466	7.8573	7.8633	7.6583	7.4282	7.1729	7.0967	
20.000	5.6576	5.6017	5.6791	5.6094	5.4693	5.2942	5.2374	
22.000	4.0725	4.0537	4.1336	4.1095	4.0277	3.9083	3.8660	
24.000	2.9619	2.9721	3.0303	3.0144	2.9667	2.8857	2.8544	
26.000	2.1751	2.1952	2.2361	2.2204	2.1863	2.1311	2.1123	
28.000	1.6118	1.6311	1.6604	1.6425	1.6156	1.5741	1.5680	
30.000	1.2035	1.2189	1.2404	1.2200	1.1976	1.1656	1.1674	
32.000	9.0499	9.1598	9.3203	9.1144	0.8917	0.8672	0.8718	+ 0
34.000	6.8505	6.9201	7.0416	6.8516	6.6787	6.4835	6.5297	
36.000	5.2189	5.2550	5.3475	5.1817	5.0313	4.8691	4.9156	
38.000	4.0001	4.0135	4.0811	3.9442	3.8154	3.6729	3.7226	
40.000	3.0840	3.0837	3.1296	3.0220	2.9122	2.7863	2.8353	
42.000	2.3909	2.3829	2.4110	2.3290	2.2367	2.1288	2.1714	
44.000	1.8616	1.8513	1.8650	1.8025	1.7281	1.6375	1.6717	− 1
46.000	1.4525	1.4423	1.4473	1.4006	1.3426	1.2678	1.2935	
48.000	1.1349	1.1259	1.1266	1.0922	1.0466	0.9876	1.0058	
50.000	8.8690	8.7980	8.7773	8.5260	8.1813	0.7722	0.7835	
52.000	6.9254	6.8698	6.8383	6.6521	6.3997	6.0390	6.1049	
54.000	5.3897	5.3482	5.3121	5.1704	5.0026	4.7219	4.7573	
56.000	4.1795	4.1501	4.1092	4.0012	3.8918	3.6761		
58.000	3.2290	3.2022	3.1641	3.0814	3.0111	2.8452		
60.000	2.4793	2.4533	2.4229	2.3604	2.3164	2.1886		
62.000	1.8888	1.8654	1.8447	1.7981	1.7712	1.6727		
64.000	1.4271	1.4072	1.3959	1.3618	1.3459	1.2698		
66.000	1.0687	1.0526	1.0497	1.0252	1.0161	0.9571		− 2
68.000	7.9288	7.8036	7.8411	7.6744	7.6335	0.7171		
70.000	5.8214	5.7300	5.8149	5.7172	5.7060	5.3494		
72.000	4.2257	4.1655	4.2797	4.2381	4.2435	3.9715		
74.000	3.0300	2.9988	3.1248	3.1254	3.1391	2.9343		
76.000	2.1440	2.1369	2.2623	2.2926	2.3092	2.1572		
78.000	1.5090	1.5141	1.6249	1.6725	1.6871	1.5758		
80.000	1.0675	1.0731	1.1643	1.2131	1.2234	1.1411		
82.000	7.5916	7.6212	7.3308	8.7433	8.8026	8.1878		− 3
84.000	5.4293	5.4373	5.9522	6.2526	6.2813	5.8179		
86.000	3.9051	3.8967	4.2465	4.4348	4.4435	4.0914		
88.000	2.8243	2.8048	3.0251	3.1248	3.1148	2.8457		
90.000	2.0536	2.0275	2.1519	2.2011	2.1624	1.9569		

*Power of 10 by which preceding numbers should be multiplied.

STANDARD AND REFERENCE ATMOSPHERES

Table 14-2k. Reference Atmosphere Pressure (mb)—July

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N	
0.000	1.0114	1.0108	1.0129	1.0135	1.0099	1.0111	1.0130	+ 3*
2.000	8.0167	8.0182	8.0323	8.0057	7.9221	7.8803	7.8763	+ 2
4.000	6.2981	6.3057	6.3110	6.2688	6.1556	6.0994	6.0870	
6.000	4.9007	4.9130	4.9112	4.8560	4.7319	4.6602	4.6473	
8.000	3.7740	3.7889	3.7768	3.7154	3.5855	3.5098	3.4964	
10.000	2.8659	2.8784	2.8618	2.8026	2.6724	2.6077	2.5951	
12.000	2.1358	2.1462	2.1329	2.0810	1.9742	1.9355	1.9293	
14.000	1.5577	1.5662	1.5603	1.5215	1.4587	1.4384	1.4362	
16.000	1.1148	1.1208	1.1204	1.1100	1.0780	1.0697	1.0693	+ 1
18.000	7.9201	7.9959	8.0491	8.1030	7.9683	7.9568	7.9632	
20.000	5.6870	5.7531	5.8235	5.9336	5.8909	5.9195	5.9312	
22.000	4.1290	4.1786	4.2420	4.3606	4.3560	4.4046	4.4185	
24.000	3.0263	3.0622	3.1103	3.2154	3.2235	3.2780	3.2922	
26.000	2.2319	2.2606	2.2948	2.3784	2.3966	2.4419	2.4562	
28.000	1.6556	1.6780	1.7034	1.7653	1.7912	1.8295	1.8398	
30.000	1.2349	1.2521	1.2717	1.2175	1.3455	1.3795	1.3836	
32.000	9.2614	9.3917	9.5480	9.8912	1.0167	1.0466	1.0447	+ 0
34.000	6.9815	7.0790	7.2069	7.4672	7.7286	7.9867	7.9335	
36.000	5.2893	5.3614	5.4680	5.6678	5.9090	6.1289	6.0713	
38.000	4.0266	4.0794	4.1705	4.3244	4.5428	4.7279	4.6802	
40.000	3.0797	3.1183	3.1982	3.3159	3.5111	3.6654	3.6329	
42.000	2.3661	2.3945	2.4654	2.5549	2.7277	2.8553	2.8376	
44.000	1.8260	1.8468	1.9087	1.9778	2.1294	2.2346	2.2240	- 1
46.000	1.4161	1.4304	1.4819	1.5379	1.6693	1.7567	1.7478	
48.000	1.1028	1.1123	1.1536	1.2008	1.3108	1.3847	1.3770	
50.000	8.5953	8.6599	8.9876	9.3866	1.0297	1.0917	1.0855	
52.000	6.6938	6.7410	6.9986	7.3382	8.0887	8.6086	8.5588	
54.000	5.1970	5.2354	5.4389	5.7211	6.3343	6.7889	6.7492	
56.000	4.0215	4.0533	4.2174	4.4357	4.9401	5.3417		
58.000	3.0932	3.1169	3.2518	3.4168	3.8364	4.1856		
60.000	2.3609	2.3778	2.4883	2.6135	2.9661	3.2658		
62.000	1.7873	1.7987	1.8888	1.9844	2.2825	2.5368		
64.000	1.3412	1.3484	1.4216	1.4949	1.7415	1.9549		
66.000	0.9972	1.0012	1.0602	1.1169	1.3145	1.4886		- 2
68.000	7.3396	7.3582	7.8313	8.2726	9.8076	1.1189		
70.000	5.3414	5.3484	5.7247	6.0699	7.2253	8.2902		
72.000	3.8406	3.8519	4.1432	4.4096	5.2499	6.0456		
74.000	2.7270	2.7636	2.9833	3.1697	2.6448	3.0425		
76.000	1.9335	1.9756	2.1382	2.2531	2.6448	3.0425		
78.000	1.3759	1.4108	1.5253	1.5871	1.8277	2.0899		
80.000	0.9826	1.0078	1.0827	1.1083	1.2375	1.3997		- 3
82.000	7.0408	7.2002	7.6480	7.6707	8.1900	9.1071		
84.000	5.0489	5.1453	5.3742	5.2582	5.3435	5.7944		
86.000	3.6196	3.6665	3.7563	3.5684	2.2396	2.3281		
88.000	2.5763	2.5911	2.6111	2.3961	2.2396	2.3281		
90.000	1.8156	1.8150	1.8048	1.5985	1.4383	1.4709		

*Power of 10 by which preceding numbers should be multiplied.

CHAPTER 14

Table 14-21. Reference Atmosphere Pressure (mb)—October

Alt (km)	0°	15°N	30°N	45°N	60°N	75°N	90°N	
0.000	1.0107	1.0113	1.0169	1.0175	1.0106	1.0092	1.0140	+ 3*
2.000	8.0149	8.0165	8.0286	7.9662	7.8528	7.7639	7.7527	
4.000	6.3010	6.6036	6.2863	6.1801	6.0564	5.9371	5.8884	+ 2
6.000	4.9062	4.9091	4.8760	4.7399	4.6213	4.4773	4.4166	
8.000	3.7737	3.7826	3.7323	3.5891	3.4755	3.3235	3.2674	
10.000	2.8627	2.8723	2.8135	2.6797	2.5720	2.4368	2.3937	
12.000	2.1347	2.1427	2.0847	1.9697	1.8870	1.7860	1.7580	
14.000	1.5581	1.5664	1.5216	1.4356	1.3847	1.3093	1.2913	
16.000	1.1128	1.1205	1.0974	1.0466	1.0163	0.9600	0.9460	+ 1
18.000	7.8791	7.9611	7.8713	7.6313	7.4607	7.0305	6.9124	
20.000	5.6412	5.7136	5.6849	5.5654	5.4712	5.1350	5.0370	
22.000	4.0858	4.1464	4.1378	4.0651	4.0062	3.7403	3.6603	
24.000	2.9857	3.0364	3.0315	2.9783	2.9321	2.7169	2.6524	
26.000	2.1982	2.2389	2.2325	2.1886	2.1509	1.9695	1.9194	
28.000	1.6300	1.6617	1.6525	1.6131	1.5817	1.4318	1.3893	
30.000	1.2170	1.2411	1.2291	1.1923	1.1659	1.0448	1.0058	
32.000	9.1464	9.3262	9.1856	8.8406	0.8614	0.7652	0.7303	+ 0
34.000	6.9158	7.0486	6.8961	6.5885	6.3843	5.6244	5.3358	
36.000	5.2595	5.3575	5.2020	4.9367	4.7562	4.1500	3.9211	
38.000	4.0221	4.0956	3.9467	3.7183	3.5616	3.0827	2.8978	
40.000	3.0923	3.1483	3.0113	2.8147	2.6804	2.3059	2.1556	
42.000	2.3896	2.4330	2.3100	2.1415	2.0279	1.7365	1.6158	
44.000	1.8540	1.8884	1.7813	1.6408	1.5431	1.3161	1.2201	- 1
46.000	1.4429	1.4695	1.3805	1.2654	1.1807	1.0035	0.9277	
48.000	1.1260	1.1463	1.0734	0.9808	9.0823	0.7697	0.7097	
50.000	8.7921	8.9499	8.3510	7.6277	7.0097	0.5937	0.5437	
52.000	6.8580	6.9786	6.4881	5.9319	5.4112	4.5954	4.1658	
54.000	5.3285	5.4152	5.0155	4.5962	4.1744	3.5576	3.1923	
56.000	4.1227	4.1800	3.8563	3.5432	2.4473	2.7515		
58.000	3.1734	3.2073	2.9493	2.7166	2.4473	2.1145		
60.000	2.4286	2.4449	2.2435	2.0700	1.8581	1.6132		
62.000	1.8465	1.8503	1.6969	1.5671	1.4024	1.2211		
64.000	1.3917	1.3883	1.2760	1.1791	1.0524	0.9168		- 2
66.000	1.0390	1.0320	0.9536	0.8829	0.7875	0.6831		
68.000	7.6789	7.5958	7.0818	6.5802	5.8798	0.5084		
70.000	5.6135	5.5316	5.2237	4.8795	4.3796	4.7856		
72.000	4.0557	3.9860	3.8261	3.5999	3.2544	2.8189		
74.000	2.8945	2.8526	2.7819	2.6417	2.4125	2.0985		
76.000	2.0580	2.0299	2.0072	1.9279	1.7822	1.5558		
78.000	1.4636	1.4434	1.4414	1.3990	1.3096	1.1475		
80.000	1.0411	1.0266	1.0336	1.0091	0.9571	0.8419		- 3
82.000	7.4071	7.3031	7.4076	7.2585	6.9561	6.1426		
84.000	5.2710	5.1963	5.3096	5.2217	5.0267	4.4562		
86.000	3.7517	3.6981	3.8065	3.7572	3.6270	3.2199		
88.000	2.6709	2.6324	2.7295	2.7040	2.6176	2.3267		
90.000	1.9019	1.8742	1.9577	1.9465	1.8895	1.6817		

*Power of 10 by which preceding numbers should be multiplied.