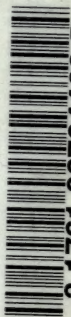


COMPUTING TABLES
AND FORMULAS

—
BARKER.



3 1761 06704468 5



3255c

COMPUTING TABLES AND MATHEMATICAL FORMULAS

ARRANGED FOR THE USE OF
HIGH SCHOOLS AND COLLEGES

BY

E. H. BARKER

HEAD OF THE DEPARTMENT OF MATHEMATICS IN THE
POLYTECHNIC HIGH SCHOOL, LOS ANGELES
CALIFORNIA

144.666
7/12/17

GINN AND COMPANY

BOSTON · NEW YORK · CHICAGO · LONDON



COPYRIGHT, 1913, BY
E. H. BARKER

ALL RIGHTS RESERVED

714.11


The Athenæum Press
GINN AND COMPANY • PRO-
PRIETORS • BOSTON • U.S.A.

PREFACE

The author has long felt the need of a collection of mathematical tables bound in such shape and size as to be suitable and convenient for pocket use, and adapted not so much to the wants of the experienced engineer, for whom there are already in the field many excellent reference books of engineering data, as to the actual needs of the high-school student engaged in studying trigonometry, solid geometry, shop mathematics, and allied subjects. It is hoped that the present compilation will be of material service in the drafting room of technical schools, in the laboratory where problems in structural work are undertaken, and, in fine, wherever mathematical operations are involved. Twenty years of classroom experience leads the author to believe that he has compiled a volume which will appeal to the sense of utility of the great body of American boys, to whose hands the book is confidently intrusted.

E. H. BARKER

LOS ANGELES, CALIFORNIA



Digitized by the Internet Archive
in 2007 with funding from
Microsoft Corporation

CONTENTS

TABLE	PAGE
I. CONVENIENT EQUIVALENTS	1
II. POWERS, ROOTS, CIRCUMFERENCES AND AREAS	2
III. LOGARITHMS OF NUMBERS	22
IV. LOGARITHMIC SINES, COSINES, TANGENTS AND COTANGENTS	40
V. NATURAL SINES AND COSINES	62
VI. NATURAL TANGENTS AND COTANGENTS	71
VII. MINUTES AS DECIMALS OF A DEGREE OR SECONDS AS DECIMALS OF A MINUTE	80
VIII. FORMULAS FOR THE SOLUTION OF TRIANGLES	80
IX. TRIGONOMETRIC FORMULAS	81
X. AREAS AND VOLUMES	82
XI. VOLUMES OF SPHERES	82
XII. STANDARD GAUGES	83
XIII. DECIMAL EQUIVALENTS OF COMMON FRACTIONS	84
XIV. SPECIFIC GRAVITIES	85
XV. WEIGHT OF A CUBIC FOOT OF VARIOUS MATERIALS	86

COMPUTING TABLES AND MATHEMATICAL FORMULAS

TABLE I. — CONVENIENT EQUIVALENTS

Ratio of circumference to diameter	3.14159
Cubic inches in one U. S. gallon	231.
U. S. gallons in one cubic foot	7.48
Cubic inches in a bushel	2150.4
Pounds per cubic foot of water	62.3
Grains in a pound (Avoir.)	7000.
Grains in a pound (Troy)	5760.
Grains in a gram	15.43
Inches in one meter	39.37
Feet in one meter	3.28
Yards in one meter	1.09
Centimeters in one inch	2.54
Meters in one yard . . . . .	.91
Miles in one kilometer . . . . .	.62
Square feet in one square meter	10.76
Cubic feet in one cubic meter	35.32
Cubic meters in one cubic yard . . . . .	.76
Cubic inches in one liter	61.
Pints in one liter	2.1
Liters in one gallon	3.79
Pounds (Avoir.) in one kilogram	2.2
Pounds in a metric ton, about	2200.
Feet in one rod	16.5
Yards in one rod	5.5
Square yards in one square rod	30.25
Feet in one mile	5280.
Feet in one knot, or nautical mile	6080.
Feet in one fathom	6.
Square feet in one acre	43560.
Square rods in one acre	160.
Acres in a square mile	640.
Acceleration of gravity in feet per second	32.16
Atmospheric pressure in pounds per square inch	15.
Foot-pounds per second in one horse power	550.
To convert Centigrade reading to Fahrenheit, multiply by 1.8 and add 32.	
To convert Fahrenheit reading to Centigrade, subtract 32 and multiply by .56.	
A miner's inch of water (in California) is equivalent to a discharge of 1.5 cubic feet per minute.	

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
1	1	1	1.0000	1.0000	3.142	0.7854	1
2	4	8	1.4142	1.2599	6.283	3.1416	2
3	9	27	1.7321	1.4422	9.425	7.0686	3
4	16	64	2.0000	1.5874	12.566	12.5664	4
5	25	125	2.2361	1.7100	15.708	19.6350	5
6	36	216	2.4495	1.8171	18.850	28.2743	6
7	49	343	2.6458	1.9129	21.991	38.4845	7
8	64	512	2.8284	2.0000	25.133	50.2655	8
9	81	729	3.0000	2.0801	28.274	63.6173	9
10	100	1000	3.1623	2.1544	31.416	78.5398	10
11	121	1331	3.3166	2.2240	34.558	95.0332	11
12	144	1728	3.4641	2.2894	37.699	113.097	12
13	169	2197	3.6056	2.3513	40.841	132.732	13
14	196	2744	3.7417	2.4101	43.982	153.938	14
15	225	3375	3.8730	2.4662	47.124	176.715	15
16	256	4096	4.0000	2.5198	50.265	201.062	16
17	289	4913	4.1231	2.5713	53.407	226.980	17
18	324	5832	4.2426	2.6207	56.549	254.469	18
19	361	6859	4.3589	2.6684	59.690	283.529	19
20	400	8000	4.4721	2.7144	62.832	314.159	20
21	441	9261	4.5826	2.7589	65.973	346.361	21
22	484	10648	4.6904	2.8020	69.115	380.133	22
23	529	12167	4.7958	2.8439	72.257	415.476	23
24	576	13824	4.8990	2.8845	75.398	452.389	24
25	625	15625	5.0000	2.9240	78.540	490.874	25
26	676	17576	5.0990	2.9625	81.681	530.929	26
27	729	19683	5.1962	3.0000	84.823	572.555	27
28	784	21952	5.2915	3.0366	87.965	615.752	28
29	841	24389	5.3852	3.0723	91.106	660.520	29
30	900	27000	5.4772	3.1072	94.248	706.858	30
31	961	29791	5.5678	3.1414	97.389	754.768	31
32	1024	32768	5.6569	3.1748	100.531	804.248	32
33	1089	35937	5.7446	3.2075	103.673	855.299	33
34	1156	39304	5.8310	3.2396	106.814	907.920	34
35	1225	42875	5.9161	3.2711	109.956	962.113	35
36	1296	46656	6.0000	3.3019	113.097	1017.88	36
37	1369	50653	6.0828	3.3322	116.239	1075.21	37
38	1444	54872	6.1644	3.3620	119.381	1134.11	38
39	1521	59319	6.2450	3.3912	122.522	1194.59	39
40	1600	64000	6.3246	3.4200	125.66	1256.64	40
41	1681	68921	6.4031	3.4482	128.81	1320.25	41
42	1764	74088	6.4807	3.4760	131.95	1385.44	42
43	1849	79507	6.5574	3.5034	135.09	1452.20	43
44	1936	85184	6.6332	3.5303	138.23	1520.53	44
45	2025	91125	6.7082	3.5569	141.37	1590.43	45
46	2116	97336	6.7823	3.5830	144.51	1661.90	46
47	2209	103823	6.8557	3.6088	147.65	1734.94	47
48	2304	110592	6.9282	3.6342	150.80	1809.56	48
49	2401	117649	7.0000	3.6593	153.94	1885.74	49

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
50	2500	125000	7.0711	3.6840	157.08	1963.50	50
51	2601	132651	7.1414	3.7084	160.22	2042.82	51
52	2704	140608	7.2111	3.7325	163.36	2123.72	52
53	2809	148877	7.2801	3.7563	166.50	2206.18	53
54	2916	157464	7.3485	3.7798	169.65	2290.22	54
55	3025	166375	7.4162	3.8030	172.79	2375.83	55
56	3136	175616	7.4833	3.8259	175.93	2463.01	56
57	3249	185193	7.5498	3.8485	179.07	2551.76	57
58	3364	195112	7.6158	3.8709	182.21	2642.08	58
59	3481	205379	7.6811	3.8930	185.35	2733.97	59
60	3600	216000	7.7460	3.9149	188.50	2827.43	60
61	3721	226981	7.8102	3.9365	191.64	2922.47	61
62	3844	238328	7.8740	3.9579	194.78	3019.07	62
63	3969	250047	7.9373	3.9791	197.92	3117.25	63
64	4096	262144	8.0000	4.0000	201.06	3216.99	64
65	4225	274625	8.0623	4.0207	204.20	3318.31	65
66	4356	287496	8.1240	4.0412	207.35	3421.19	66
67	4489	300763	8.1854	4.0615	210.49	3525.65	67
68	4624	314432	8.2462	4.0817	213.63	3631.68	68
69	4761	328509	8.3066	4.1016	216.77	3739.28	69
70	4900	343000	8.3666	4.1213	219.91	3848.45	70
71	5041	357911	8.4261	4.1408	223.05	3959.19	71
72	5184	373248	8.4853	4.1602	226.19	4071.50	72
73	5329	389017	8.5440	4.1793	229.34	4185.39	73
74	5476	405224	8.6023	4.1983	232.48	4300.84	74
75	5625	421875	8.6603	4.2172	235.62	4417.86	75
76	5776	438976	8.7178	4.2358	238.76	4536.46	76
77	5929	456533	8.7750	4.2543	241.90	4656.63	77
78	6084	474552	8.8318	4.2727	245.04	4778.36	78
79	6241	493039	8.8882	4.2908	248.19	4901.67	79
80	6400	512000	8.9443	4.3089	251.33	5026.55	80
81	6561	531441	9.0000	4.3267	254.47	5153.00	81
82	6724	551368	9.0554	4.3445	257.61	5281.02	82
83	6889	571787	9.1104	4.3621	260.75	5410.61	83
84	7056	592704	9.1652	4.3795	263.89	5541.77	84
85	7225	614125	9.2195	4.3968	267.04	5674.50	85
86	7396	636056	9.2736	4.4140	270.18	5808.80	86
87	7569	658503	9.3274	4.4310	273.32	5944.68	87
88	7744	681472	9.3808	4.4480	276.46	6082.12	88
89	7921	704969	9.4340	4.4647	279.60	6221.14	89
90	8100	729000	9.4868	4.4814	282.74	6361.73	90
91	8281	753571	9.5394	4.4979	285.88	6503.88	91
92	8464	778688	9.5917	4.5144	289.03	6647.61	92
93	8649	804357	9.6437	4.5307	292.17	6792.91	93
94	8836	830584	9.6954	4.5468	295.31	6939.78	94
95	9025	857375	9.7468	4.5629	298.45	7088.22	95
96	9216	884736	9.7980	4.5789	301.59	7238.23	96
97	9409	912673	9.8489	4.5947	304.73	7389.81	97
98	9604	941192	9.8995	4.6104	307.88	7542.96	98
99	9801	970299	9.9499	4.6261	311.02	7697.69	99

TABLE II.—POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
100	10000	1000000	10.0000	4.6416	314.16	7853.98	100
101	10201	1030301	10.0499	4.6570	317.30	8011.85	101
102	10404	1061208	10.0995	4.6723	320.44	8171.28	102
103	10609	1092727	10.1489	4.6875	323.58	8332.29	103
104	10816	1124864	10.1980	4.7027	326.73	8494.87	104
105	11025	1157625	10.2470	4.7177	329.87	8659.01	105
106	11236	1191016	10.2956	4.7326	333.01	8824.73	106
107	11449	1225043	10.3441	4.7475	336.15	8992.02	107
108	11664	1259712	10.3923	4.7622	339.29	9160.88	108
109	11881	1295029	10.4403	4.7769	342.43	9331.32	109
110	12100	1331000	10.4881	4.7914	345.58	9503.32	110
111	12321	1367631	10.5357	4.8059	348.72	9676.89	111
112	12544	1404928	10.5830	4.8203	351.86	9852.03	112
113	12769	1442897	10.6301	4.8346	355.00	10028.7	113
114	12996	1481544	10.6771	4.8488	358.14	10207.0	114
115	13225	1520875	10.7238	4.8629	361.28	10386.9	115
116	13456	1560896	10.7703	4.8770	364.42	10568.3	116
117	13689	1601613	10.8167	4.8910	367.57	10751.3	117
118	13924	1643032	10.8628	4.9049	370.71	10935.9	118
119	14161	1685159	10.9087	4.9187	373.85	11122.0	119
120	14400	1728000	10.9545	4.9324	376.99	11309.7	120
121	14641	1771561	11.0000	4.9461	380.13	11499.0	121
122	14884	1815848	11.0454	4.9597	383.27	11689.9	122
123	15129	1860867	11.0905	4.9732	386.42	11882.3	123
124	15376	1906624	11.1355	4.9866	389.56	12076.3	124
125	15625	1953125	11.1803	5.0000	392.70	12271.8	125
126	15876	2000376	11.2250	5.0133	395.84	12469.0	126
127	16129	2048383	11.2694	5.0265	398.98	12667.7	127
128	16384	2097152	11.3137	5.0397	402.12	12868.0	128
129	16641	2146689	11.3578	5.0528	405.27	13069.8	129
130	16900	2197000	11.4018	5.0658	408.41	13273.2	130
131	17161	2248091	11.4455	5.0788	411.55	13478.2	131
132	17424	2299968	11.4891	5.0916	414.69	13684.8	132
133	17689	2352637	11.5326	5.1045	417.83	13892.9	133
134	17956	2406104	11.5758	5.1172	420.97	14102.6	134
135	18225	2460375	11.6190	5.1299	424.12	14313.9	135
136	18496	2515456	11.6619	5.1426	427.26	14526.7	136
137	18769	2571353	11.7047	5.1551	430.40	14741.1	137
138	19044	2628072	11.7473	5.1676	433.54	14957.1	138
139	19321	2685619	11.7898	5.1801	436.68	15174.7	139
140	19600	2744000	11.8322	5.1925	439.82	15393.8	140
141	19881	2803221	11.8743	5.2048	442.96	15614.5	141
142	20164	2863288	11.9164	5.2171	446.11	15836.8	142
143	20449	2924207	11.9583	5.2293	449.25	16060.6	143
144	20736	2985984	12.0000	5.2415	452.39	16286.0	144
145	21025	3048625	12.0416	5.2536	455.53	16513.0	145
146	21316	3112136	12.0830	5.2656	458.67	16741.5	146
147	21609	3176523	12.1244	5.2776	461.81	16971.7	147
148	21904	3241792	12.1655	5.2896	464.96	17203.4	148
149	22201	3307949	12.2066	5.3015	468.10	17436.6	149

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
150	22500	3375000	12.2474	5.3133	471.24	17671.5	150
151	22801	3442951	12.2882	5.3251	474.38	17907.9	151
152	23104	3511808	12.3288	5.3368	477.52	18145.8	152
153	23409	3581577	12.3693	5.3485	480.66	18385.4	153
154	23716	3652264	12.4097	5.3601	483.81	18626.5	154
155	24025	3723875	12.4499	5.3717	486.95	18869.2	155
156	24336	3796416	12.4900	5.3832	490.09	19113.4	156
157	24649	3869893	12.5300	5.3947	493.23	19359.3	157
158	24964	3944312	12.5698	5.4061	496.37	19606.7	158
159	25281	4019679	12.6095	5.4175	499.51	19855.7	159
160	25600	4096000	12.6491	5.4288	502.65	20106.2	160
161	25921	4173281	12.6886	5.4401	505.80	20358.3	161
162	26244	4251528	12.7279	5.4514	508.94	20612.0	162
163	26569	4330747	12.7671	5.4626	512.08	20867.2	163
164	26896	4410944	12.8062	5.4737	515.22	21124.1	164
165	27225	4492125	12.8452	5.4848	518.36	21382.5	165
166	27556	4574296	12.8841	5.4959	521.50	21642.4	166
167	27889	4657463	12.9228	5.5069	524.65	21904.0	167
168	28224	4741632	12.9615	5.5178	527.79	22167.1	168
169	28561	4826809	13.0000	5.5288	530.93	22431.8	169
170	28900	4913000	13.0384	5.5397	534.07	22698.0	170
171	29241	5000211	13.0767	5.5505	537.21	22965.8	171
172	29584	5088448	13.1149	5.5613	540.35	23235.2	172
173	29929	5177717	13.1529	5.5721	543.50	23506.2	173
174	30276	5268024	13.1909	5.5828	546.64	23778.7	174
175	30625	5359375	13.2288	5.5934	549.78	24052.8	175
176	30976	5451776	13.2665	5.6041	552.92	24328.5	176
177	31329	5545233	13.3041	5.6147	556.06	24605.7	177
178	31684	5639752	13.3417	5.6252	559.20	24884.6	178
179	32041	5735339	13.3791	5.6357	562.35	25164.9	179
180	32400	5832000	13.4164	5.6462	565.49	25446.9	180
181	32761	5929741	13.4536	5.6567	568.63	25730.4	181
182	33124	6028568	13.4907	5.6671	571.77	26015.5	182
183	33489	6128487	13.5277	5.6774	574.91	26302.2	183
184	33856	6229504	13.5647	5.6877	578.05	26590.4	184
185	34225	6331625	13.6015	5.6980	581.19	26880.3	185
186	34596	6434856	13.6382	5.7083	584.34	27171.6	186
187	34969	6539203	13.6748	5.7185	587.48	27464.6	187
188	35344	6644672	13.7113	5.7287	590.62	27759.1	188
189	35721	6751269	13.7477	5.7388	593.76	28055.2	189
190	36100	6859000	13.7840	5.7489	596.90	28352.9	190
191	36481	6967871	13.8203	5.7590	600.04	28652.1	191
192	36864	7077888	13.8564	5.7690	603.19	28952.9	192
193	37249	7189057	13.8924	5.7790	606.33	29255.3	193
194	37636	7301384	13.9284	5.7890	609.47	29559.2	194
195	38025	7414875	13.9642	5.7989	612.61	29864.8	195
196	38416	7529536	14.0000	5.8088	615.75	30171.9	196
197	38809	7645373	14.0357	5.8186	618.89	30480.5	197
198	39204	7762392	14.0712	5.8285	622.04	30790.7	198
199	39601	7880599	14.1067	5.8383	625.18	31102.6	199

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
200	40000	8000000	14.1421	5.8480	628.32	31415.9	200
201	40401	8120601	14.1774	5.8578	631.46	31730.9	201
202	40804	8242408	14.2127	5.8675	634.60	32047.4	202
203	41209	8365427	14.2478	5.8771	637.74	32365.5	203
204	41616	8489664	14.2829	5.8868	640.89	32685.1	204
205	42025	8615125	14.3178	5.8964	644.03	33006.4	205
206	42436	8741816	14.3527	5.9059	647.17	33329.2	206
207	42849	8869743	14.3875	5.9155	650.31	33653.5	207
208	43264	8998912	14.4222	5.9250	653.45	33979.5	208
209	43681	9129329	14.4568	5.9345	656.59	34307.0	209
210	44100	9261000	14.4914	5.9439	659.73	34636.1	210
211	44521	9393931	14.5258	5.9533	662.88	34966.7	211
212	44944	9528128	14.5602	5.9627	666.02	35298.9	212
213	45369	9663597	14.5945	5.9721	669.16	35632.7	213
214	45796	9800344	14.6287	5.9814	672.30	35968.1	214
215	46225	9938375	14.6629	5.9907	675.44	36305.0	215
216	46656	10077696	14.6969	6.0000	678.58	36643.5	216
217	47089	10218313	14.7309	6.0092	681.73	36983.6	217
218	47524	10360232	14.7648	6.0185	684.87	37325.3	218
219	47961	10503459	14.7986	6.0277	688.01	37668.5	219
220	48400	10648000	14.8324	6.0368	691.15	38013.3	220
221	48841	10793861	14.8661	6.0459	694.29	38359.6	221
222	49284	10941048	14.8997	6.0550	697.43	38707.6	222
223	49729	11089567	14.9332	6.0641	700.58	39057.1	223
224	50176	11239424	14.9666	6.0732	703.72	39408.1	224
225	50625	11390625	15.0000	6.0822	706.86	39760.8	225
226	51076	11543176	15.0333	6.0912	710.00	40115.0	226
227	51529	11697083	15.0665	6.1002	713.14	40470.8	227
228	51984	11852352	15.0997	6.1091	716.28	40828.1	228
229	52441	12008989	15.1327	6.1180	719.42	41187.1	229
230	52900	12167000	15.1658	6.1269	722.57	41547.6	230
231	53361	12326391	15.1987	6.1358	725.71	41909.6	231
232	53824	12487168	15.2315	6.1446	728.85	42273.3	232
233	54289	12649337	15.2643	6.1534	731.99	42638.5	233
234	54756	12812904	15.2971	6.1622	735.13	43005.3	234
235	55225	12977875	15.3297	6.1710	738.27	43373.6	235
236	55696	13144256	15.3623	6.1797	741.42	43743.5	236
237	56169	13312053	15.3948	6.1885	744.56	44115.0	237
238	56644	13481272	15.4272	6.1972	747.70	44488.1	238
239	57121	13651919	15.4596	6.2058	750.84	44862.7	239
240	57600	13824000	15.4919	6.2145	753.98	45238.9	240
241	58081	13997521	15.5242	6.2231	757.12	45616.7	241
242	58564	14172488	15.5563	6.2317	760.27	45996.1	242
243	59049	14348907	15.5885	6.2403	763.41	46377.0	243
244	59536	14526784	15.6205	6.2488	766.55	46759.5	244
245	60025	14706125	15.6525	6.2573	769.69	47143.5	245
246	60516	14886936	15.6844	6.2658	772.83	47529.2	246
247	61009	15069223	15.7162	6.2743	775.97	47916.4	247
248	61504	15252992	15.7480	6.2828	779.12	48305.1	248
249	62001	15438249	15.7797	6.2912	782.26	48695.5	249

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
250	62500	15625000	15.8114	6.2996	785.40	49087.4	250
251	63001	15813251	15.8430	6.3080	788.54	49480.9	251
252	63504	16003008	15.8745	6.3164	791.68	49875.9	252
253	64009	16194277	15.9060	6.3247	794.82	50272.6	253
254	64516	16387064	15.9374	6.3330	797.96	50670.7	254
255	65025	16581375	15.9687	6.3413	801.11	51070.5	255
256	65536	16777216	16.0000	6.3496	804.25	51471.9	256
257	66049	16974593	16.0312	6.3579	807.39	51874.8	257
258	66564	17173512	16.0624	6.3661	810.53	52279.2	258
259	67081	17373979	16.0935	6.3743	813.67	52685.3	259
260	67600	17576000	16.1245	6.3825	816.81	53092.9	260
261	68121	17779581	16.1555	6.3907	819.96	53502.1	261
262	68644	17984728	16.1864	6.3988	823.10	53912.9	262
263	69169	18191447	16.2173	6.4070	826.24	54325.2	263
264	69696	18399744	16.2481	6.4151	829.38	54739.1	264
265	70225	18609625	16.2788	6.4232	832.52	55154.6	265
266	70756	18821096	16.3095	6.4312	835.66	55571.6	266
267	71289	19034163	16.3401	6.4393	838.81	55990.3	267
268	71824	19248832	16.3707	6.4473	841.95	56410.4	268
269	72361	19465109	16.4012	6.4553	845.09	56832.2	269
270	72900	19683000	16.4317	6.4633	848.23	57255.5	270
271	73441	19902511	16.4621	6.4713	851.37	57680.4	271
272	73984	20123648	16.4924	6.4792	854.51	58106.9	272
273	74529	20346417	16.5227	6.4872	857.66	58534.9	273
274	75076	20570824	16.5529	6.4951	860.80	58964.6	274
275	75625	20796875	16.5831	6.5030	863.94	59395.7	275
276	76176	21024576	16.6132	6.5108	867.08	59828.5	276
277	76729	21253933	16.6433	6.5187	870.22	60262.8	277
278	77284	21484952	16.6733	6.5265	873.36	60698.7	278
279	77841	21717639	16.7033	6.5343	876.50	61136.2	279
280	78400	21952000	16.7332	6.5421	879.65	61575.2	280
281	78961	22188041	16.7631	6.5499	882.79	62015.8	281
282	79524	22425768	16.7929	6.5577	885.93	62458.0	282
283	80089	22665187	16.8226	6.5654	889.07	62901.8	283
284	80656	22906304	16.8523	6.5731	892.21	63347.1	284
285	81225	23149125	16.8819	6.5808	895.35	63794.0	285
286	81796	23393656	16.9115	6.5885	898.50	64242.4	286
287	82369	23639903	16.9411	6.5962	901.64	64692.5	287
288	82944	23887872	16.9706	6.6039	904.78	65144.1	288
289	83521	24137569	17.0000	6.6115	907.92	65597.2	289
290	84100	24389000	17.0294	6.6191	911.06	66052.0	290
291	84681	24642171	17.0587	6.6267	914.20	66508.3	291
292	85264	24897088	17.0880	6.6343	917.35	66966.2	292
293	85849	25153757	17.1172	6.6419	920.49	67425.6	293
294	86436	25412184	17.1464	6.6494	923.63	67886.7	294
295	87025	25672375	17.1756	6.6569	926.77	68349.3	295
296	87616	25934336	17.2047	6.6644	929.91	68813.5	296
297	88209	26198073	17.2337	6.6719	933.05	69279.2	297
298	88804	26463592	17.2627	6.6794	936.19	69746.5	298
299	89401	26730899	17.2916	6.6869	939.34	70215.4	299

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
300	90000	27000000	17.3205	6.6943	942.48	70685.8	300
301	90601	27270901	17.3494	6.7018	945.62	71157.9	301
302	91204	27543608	17.3781	6.7092	948.76	71631.5	302
303	91809	27818127	17.4069	6.7166	951.90	72106.6	303
304	92416	28094464	17.4356	6.7240	955.04	72583.4	304
305	93025	28372625	17.4642	6.7313	958.19	73061.7	305
306	93636	28652616	17.4929	6.7387	961.33	73541.5	306
307	94249	28934443	17.5214	6.7460	964.47	74023.0	307
308	94864	29218112	17.5499	6.7533	967.61	74506.0	308
309	95481	29503629	17.5784	6.7606	970.75	74990.6	309
310	96100	29791000	17.6068	6.7679	973.89	75476.8	310
311	96721	30080231	17.6352	6.7752	977.04	75964.5	311
312	97344	30371328	17.6635	6.7824	980.18	76453.8	312
313	97969	30664297	17.6918	6.7897	983.32	76944.7	313
314	98596	30959144	17.7200	6.7969	986.46	77437.1	314
315	99225	31255875	17.7482	6.8041	989.60	77931.1	315
316	99856	31554496	17.7764	6.8113	992.74	78426.7	316
317	100489	31855013	17.8045	6.8185	995.88	78923.9	317
318	101124	32157432	17.8326	6.8256	999.03	79422.6	318
319	101761	32461759	17.8606	6.8328	1002.2	79922.9	319
320	102400	32768000	17.8885	6.8399	1005.3	80424.8	320
321	103041	33076161	17.9165	6.8470	1008.5	80928.2	321
322	103684	33386248	17.9444	6.8541	1011.6	81433.2	322
323	104329	33698267	17.9722	6.8612	1014.7	81939.8	323
324	104976	34012224	18.0000	6.8683	1017.9	82448.0	324
325	105625	34328125	18.0278	6.8753	1021.0	82957.7	325
326	106276	34645976	18.0555	6.8824	1024.2	83469.0	326
327	106929	34965783	18.0831	6.8894	1027.3	83981.8	327
328	107584	35287552	18.1108	6.8964	1030.4	84496.3	328
329	108241	35611289	18.1384	6.9034	1033.6	85012.3	329
330	108900	35937000	18.1659	6.9104	1036.7	85529.9	330
331	109561	36264691	18.1934	6.9174	1039.9	86049.0	331
332	110224	36594368	18.2209	6.9244	1043.0	86569.7	332
333	110889	36926037	18.2483	6.9313	1046.2	87092.0	333
334	111556	37259704	18.2757	6.9382	1049.3	87615.9	334
335	112225	37595375	18.3030	6.9451	1052.4	88141.3	335
336	112896	37933056	18.3303	6.9521	1055.6	88668.3	336
337	113569	38272753	18.3576	6.9589	1058.7	89196.9	337
338	114244	38614472	18.3848	6.9658	1061.9	89727.0	338
339	114921	38958219	18.4120	6.9727	1065.0	90258.7	339
340	115600	39304000	18.4391	6.9795	1068.1	90792.0	340
341	116281	39651821	18.4662	6.9864	1071.3	91326.9	341
342	116964	40001688	18.4932	6.9932	1074.4	91863.3	342
343	117649	40353607	18.5203	7.0000	1077.6	92401.3	343
344	118336	40707584	18.5472	7.0068	1080.7	92940.9	344
345	119025	41063625	18.5742	7.0136	1083.8	93482.0	345
346	119716	41421736	18.6011	7.0203	1087.0	94024.7	346
347	120409	41781923	18.6279	7.0271	1090.1	94569.0	347
348	121104	42144192	18.6548	7.0338	1093.3	95114.9	348
349	121801	42508549	18.6815	7.0406	1096.4	95662.3	349

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
350	122500	42875000	18.7083	7.0473	1099.6	96211.3	350
351	123201	43243551	18.7350	7.0540	1102.7	96761.8	351
352	123904	43614208	18.7617	7.0607	1105.8	97314.0	352
353	124609	43986977	18.7883	7.0674	1109.0	97867.7	353
354	125316	44361864	18.8149	7.0740	1112.1	98423.0	354
355	126025	44738875	18.8414	7.0807	1115.3	98979.8	355
356	126736	45118016	18.8680	7.0873	1118.4	99538.2	356
357	127449	45499293	18.8944	7.0940	1121.5	100098	357
358	128164	45882712	18.9209	7.1006	1124.7	100660	358
359	128881	46268279	18.9473	7.1072	1127.8	101223	359
360	129600	46656000	18.9737	7.1138	1131.0	101788	360
361	130321	47045881	19.0000	7.1204	1134.1	102354	361
362	131044	47437928	19.0263	7.1269	1137.3	102922	362
363	131769	47832147	19.0526	7.1335	1140.4	103491	363
364	132496	48228544	19.0788	7.1400	1143.5	104062	364
365	133225	48627125	19.1050	7.1466	1146.7	104635	365
366	133956	49027896	19.1311	7.1531	1149.8	105209	366
367	134689	49430863	19.1572	7.1596	1153.0	105785	367
368	135424	49836032	19.1833	7.1661	1156.1	106362	368
369	136161	50243409	19.2094	7.1726	1159.2	106941	369
370	136900	50653000	19.2354	7.1791	1162.4	107521	370
371	137641	51064811	19.2614	7.1855	1165.5	108103	371
372	138384	51478848	19.2873	7.1920	1168.7	108687	372
373	139129	51895117	19.3132	7.1984	1171.8	109272	373
374	139876	52313624	19.3391	7.2048	1175.0	109858	374
375	140625	52734375	19.3649	7.2112	1178.1	110447	375
376	141376	53157376	19.3907	7.2177	1181.2	111036	376
377	142129	53582633	19.4165	7.2240	1184.4	111628	377
378	142884	54010152	19.4422	7.2304	1187.5	112221	378
379	143641	54439939	19.4679	7.2368	1190.7	112815	379
380	144400	54872000	19.4936	7.2432	1193.8	113411	380
381	145161	55306341	19.5192	7.2495	1196.9	114009	381
382	145924	55742968	19.5448	7.2558	1200.1	114608	382
383	146689	56181887	19.5704	7.2622	1203.2	115209	383
384	147456	56623104	19.5959	7.2685	1206.4	115812	384
385	148225	57066625	19.6214	7.2748	1209.5	116416	385
386	148996	57512456	19.6469	7.2811	1212.7	117021	386
387	149769	57960603	19.6723	7.2874	1215.8	117628	387
388	150544	58411072	19.6977	7.2936	1218.9	118237	388
389	151321	58863869	19.7231	7.2999	1222.1	118847	389
390	152100	59319000	19.7484	7.3061	1225.2	119459	390
391	152881	59776471	19.7737	7.3124	1228.4	120072	391
392	153664	60236288	19.7990	7.3186	1231.5	120687	392
393	154449	60698457	19.8242	7.3248	1234.6	121304	393
394	155236	61162984	19.8494	7.3310	1237.8	121922	394
395	156025	61629875	19.8746	7.3372	1240.9	122542	395
396	156816	62099136	19.8997	7.3434	1244.1	123163	396
397	157609	62570773	19.9249	7.3496	1247.2	123786	397
398	158404	63044792	19.9499	7.3558	1250.4	124410	398
399	159201	63521199	19.9750	7.3619	1253.5	125036	399

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
400	160000	64000000	20.0000	7.3681	1256.6	125664	400
401	160801	64481201	20.0250	7.3742	1259.8	126293	401
402	161604	64964808	20.0499	7.3803	1262.9	126923	402
403	162409	65450827	20.0749	7.3864	1266.1	127556	403
404	163216	65939264	20.0998	7.3925	1269.2	128190	404
405	164025	66430125	20.1246	7.3986	1272.3	128825	405
406	164836	66923416	20.1494	7.4047	1275.5	129462	406
407	165649	67419143	20.1742	7.4108	1278.6	130100	407
408	166464	67917312	20.1990	7.4169	1281.8	130741	408
409	167281	68417929	20.2237	7.4229	1284.9	131382	409
410	168100	68921000	20.2485	7.4290	1288.1	132025	410
411	168921	69426531	20.2731	7.4350	1291.2	132670	411
412	169744	69934528	20.2978	7.4410	1294.3	133317	412
413	170569	70444997	20.3224	7.4470	1297.5	133965	413
414	171396	70957944	20.3470	7.4530	1300.6	134614	414
415	172225	71473375	20.3715	7.4590	1303.8	135265	415
416	173056	71991296	20.3961	7.4650	1306.9	135918	416
417	173889	72511713	20.4206	7.4710	1310.0	136572	417
418	174724	73034632	20.4450	7.4770	1313.2	137228	418
419	175561	73560059	20.4695	7.4829	1316.3	137885	419
420	176400	74088000	20.4939	7.4889	1319.5	138544	420
421	177241	74618461	20.5183	7.4948	1322.6	139205	421
422	178084	75151448	20.5426	7.5007	1325.8	139867	422
423	178929	75686967	20.5670	7.5067	1328.9	140531	423
424	179776	76225024	20.5913	7.5126	1332.0	141196	424
425	180625	76765625	20.6155	7.5185	1335.2	141863	425
426	181476	77308776	20.6398	7.5244	1338.3	142531	426
427	182329	77854483	20.6640	7.5302	1341.5	143201	427
428	183184	78402752	20.6882	7.5361	1344.6	143872	428
429	184041	78953589	20.7123	7.5420	1347.7	144545	429
430	184900	79507000	20.7364	7.5478	1350.9	145220	430
431	185761	80062991	20.7605	7.5537	1354.0	145896	431
432	186624	80621568	20.7846	7.5595	1357.2	146574	432
433	187489	81182737	20.8087	7.5654	1360.3	147254	433
434	188356	81746504	20.8327	7.5712	1363.5	147934	434
435	189225	82312875	20.8567	7.5770	1366.6	148617	435
436	190096	82881856	20.8806	7.5828	1369.7	149301	436
437	190969	83453453	20.9045	7.5886	1372.9	149987	437
438	191844	84027672	20.9284	7.5944	1376.0	150674	438
439	192721	84604519	20.9523	7.6001	1379.2	151363	439
440	193600	85184000	20.9762	7.6059	1382.3	152053	440
441	194481	85766121	21.0000	7.6117	1385.4	152745	441
442	195364	86350888	21.0238	7.6174	1388.6	153439	442
443	196249	86938307	21.0476	7.6232	1391.7	154134	443
444	197136	87528384	21.0713	7.6289	1394.9	154830	444
445	198025	88121125	21.0950	7.6346	1398.0	155528	445
446	198916	88716536	21.1187	7.6403	1401.2	156228	446
447	199809	89314623	21.1424	7.6460	1404.3	156930	447
448	200704	89915392	21.1660	7.6517	1407.4	157633	448
449	201601	90518849	21.1896	7.6574	1410.6	158337	449

TABLE II.—POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
450	202500	91125000	21.2132	7.6631	1413.7	159043	450
451	203401	91733851	21.2368	7.6688	1416.9	159751	451
452	204304	92345408	21.2603	7.6744	1420.0	160460	452
453	205209	92959677	21.2838	7.6801	1423.1	161171	453
454	206116	93576664	21.3073	7.6857	1426.3	161883	454
455	207025	94196375	21.3307	7.6914	1429.4	162597	455
456	207936	94818816	21.3542	7.6970	1432.6	163313	456
457	208849	95443993	21.3776	7.7026	1435.7	164030	457
458	209764	96071912	21.4009	7.7082	1438.9	164748	458
459	210681	96702579	21.4243	7.7138	1442.0	165468	459
460	211600	97336000	21.4476	7.7194	1445.1	166190	460
461	212521	97972181	21.4709	7.7250	1448.3	166914	461
462	213444	98611128	21.4942	7.7306	1451.4	167639	462
463	214369	99252847	21.5174	7.7362	1454.6	168365	463
464	215296	99897344	21.5407	7.7418	1457.7	169093	464
465	216225	100544625	21.5639	7.7473	1460.8	169823	465
466	217156	101194696	21.5870	7.7529	1464.0	170554	466
467	218089	101847563	21.6102	7.7584	1467.1	171287	467
468	219024	102503232	21.6333	7.7639	1470.3	172021	468
469	219961	103161709	21.6564	7.7695	1473.4	172757	469
470	220900	103823000	21.6795	7.7750	1476.5	173494	470
471	221841	104487111	21.7025	7.7805	1479.7	174234	471
472	222784	105154048	21.7256	7.7860	1482.8	174974	472
473	223729	105823817	21.7486	7.7915	1486.0	175716	473
474	224676	106496424	21.7715	7.7970	1489.1	176460	474
475	225625	107171875	21.7945	7.8025	1492.3	177205	475
476	226576	107850176	21.8174	7.8079	1495.4	177952	476
477	227529	108531333	21.8403	7.8134	1498.5	178701	477
478	228484	109215352	21.8632	7.8188	1501.7	179451	478
479	229441	109902239	21.8861	7.8243	1504.8	180203	479
480	230400	110592000	21.9089	7.8297	1508.0	180956	480
481	231361	111284641	21.9317	7.8352	1511.1	181711	481
482	232324	111980168	21.9545	7.8406	1514.3	182467	482
483	233289	112678587	21.9773	7.8460	1517.4	183225	483
484	234256	113379904	22.0000	7.8514	1520.5	183984	484
485	235225	114084125	22.0227	7.8568	1523.7	184745	485
486	236196	114791256	22.0454	7.8622	1526.8	185508	486
487	237169	115501303	22.0681	7.8676	1530.0	186272	487
488	238144	116214272	22.0907	7.8730	1533.1	187038	488
489	239121	116930169	22.1133	7.8784	1536.2	187805	489
490	240100	117649000	22.1359	7.8837	1539.4	188574	490
491	241081	118370771	22.1585	7.8891	1542.5	189345	491
492	242064	119095488	22.1811	7.8944	1545.7	190117	492
493	243049	119823157	22.2036	7.8998	1548.8	190890	493
494	244036	120553784	22.2261	7.9051	1551.9	191665	494
495	245025	121287375	22.2486	7.9105	1555.1	192442	495
496	246016	122023936	22.2711	7.9158	1558.2	193221	496
497	247009	122763473	22.2935	7.9211	1561.4	194000	497
498	248004	123505992	22.3159	7.9264	1564.5	194782	498
499	249001	124251499	22.3383	7.9317	1567.7	195565	499

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
500	250000	125000000	22.3607	7.9370	1570.8	196350	500
501	251001	125751501	22.3830	7.9423	1573.9	197136	501
502	252004	126506008	22.4054	7.9476	1577.1	197923	502
503	253009	127263527	22.4277	7.9528	1580.2	198713	503
504	254016	128024064	22.4499	7.9581	1583.4	199504	504
505	255025	128787625	22.4722	7.9634	1586.5	200296	505
506	256036	129554216	22.4944	7.9686	1589.7	201090	506
507	257049	130323843	22.5167	7.9739	1592.8	201886	507
508	258064	131096512	22.5389	7.9791	1595.9	202683	508
509	259081	131872229	22.5610	7.9843	1599.1	202482	509
510	260100	132651000	22.5832	7.9896	1602.2	204282	510
511	261121	133432831	22.6053	7.9948	1605.4	205084	511
512	262144	134217728	22.6274	8.0000	1608.5	205887	512
513	263169	135005697	22.6495	8.0052	1611.6	206692	513
514	264196	135796744	22.6716	8.0104	1614.8	207499	514
515	265225	136590875	22.6936	8.0156	1617.9	208307	515
516	266256	137388096	22.7156	8.0208	1621.1	209117	516
517	267289	138188413	22.7376	8.0260	1624.2	209928	517
518	268324	138991832	22.7596	8.0311	1627.3	210741	518
519	269361	139798359	22.7816	8.0363	1630.5	211556	519
520	270400	140608000	22.8035	8.0415	1633.6	212372	520
521	271441	141420761	22.8254	8.0466	1636.8	213189	521
522	272484	142236648	22.8473	8.0517	1639.9	214008	522
523	273529	143055667	22.8692	8.0569	1643.1	214829	523
524	274576	143877824	22.8910	8.0620	1646.2	215651	524
525	275625	144703125	22.9129	8.0671	1649.3	216475	525
526	276676	145531576	22.9347	8.0723	1652.5	217301	526
527	277729	146363183	22.9565	8.0774	1655.6	218128	527
528	278784	147197952	22.9783	8.0825	1658.8	218956	528
529	279841	148035889	23.0000	8.0876	1661.9	219787	529
530	280900	148877000	23.0217	8.0927	1665.0	220618	530
531	281961	149721291	23.0434	8.0978	1668.2	221452	531
532	283024	150568768	23.0651	8.1028	1671.3	222287	532
533	284089	151419437	23.0868	8.1079	1674.5	223123	533
534	285156	152273304	23.1084	8.1130	1677.6	223961	534
535	286225	153130375	23.1301	8.1180	1680.8	224801	535
536	287296	153990656	23.1517	8.1231	1683.9	225642	536
537	288369	154854153	23.1733	8.1281	1687.0	226484	537
538	289444	155720872	23.1948	8.1332	1690.2	227329	538
539	290521	156590819	23.2164	8.1382	1693.3	228175	539
540	291600	157464000	23.2379	8.1433	1696.5	229022	540
541	292681	158340421	23.2594	8.1483	1699.6	229871	541
542	293764	159220088	23.2809	8.1533	1702.7	230722	542
543	294849	160103007	23.3024	8.1583	1705.9	231574	543
544	295936	160989184	23.3238	8.1633	1709.0	232428	544
545	297025	161878625	23.3452	8.1683	1712.2	233283	545
546	298116	162771336	23.3666	8.1733	1715.3	234140	546
547	299209	163667323	23.3880	8.1783	1718.5	234998	547
548	300304	164566592	23.4094	8.1833	1721.6	235858	548
549	301401	165469149	23.4307	8.1882	1724.7	236720	549

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
550	302500	166375000	23.4521	8.1932	1727.9	237583	550
551	303601	167284151	23.4734	8.1982	1731.0	238448	551
552	304704	168196608	23.4947	8.2031	1734.2	239314	552
553	305809	169112377	23.5160	8.2081	1737.3	240182	553
554	306916	170031464	23.5372	8.2130	1740.4	241051	554
555	308025	170953875	23.5584	8.2180	1743.6	241922	555
556	309136	171879616	23.5797	8.2229	1746.7	242795	556
557	310249	172808693	23.6008	8.2278	1749.9	243669	557
558	311364	173741112	23.6220	8.2327	1753.0	244545	558
559	312481	174676879	23.6432	8.2377	1756.2	245422	559
560	313600	175616000	23.6643	8.2426	1759.3	246301	560
561	314721	176558481	23.6854	8.2475	1762.4	247181	561
562	315844	177504328	23.7065	8.2524	1765.6	248063	562
563	316969	178453547	23.7276	8.2573	1768.7	248947	563
564	318096	179406144	23.7487	8.2621	1771.9	249832	564
565	319225	180362125	23.7697	8.2670	1775.0	250719	565
566	320356	181321496	23.7908	8.2719	1778.1	251607	566
567	321489	182284263	23.8118	8.2768	1781.3	252497	567
568	322624	183250432	23.8328	8.2816	1784.4	253388	568
569	323761	184220009	23.8537	8.2865	1787.6	254281	569
570	324900	185193000	23.8747	8.2913	1790.7	255176	570
571	326041	186169411	23.8956	8.2962	1793.9	256072	571
572	327184	187149248	23.9165	8.3010	1797.0	256970	572
573	328329	188132517	23.9374	8.3059	1800.1	257869	573
574	329476	189119224	23.9583	8.3107	1803.3	258770	574
575	330625	190109375	23.9792	8.3155	1806.4	259672	575
576	331776	191102976	24.0000	8.3203	1809.6	260576	576
577	332929	192100033	24.0208	8.3251	1812.7	261482	577
578	334084	193100552	24.0416	8.3300	1815.8	262389	578
579	335241	194104539	24.0624	8.3348	1819.0	263298	579
580	336400	195112000	24.0832	8.3396	1822.1	264208	580
581	337561	196122941	24.1039	8.3443	1825.3	265120	581
582	338724	197137368	24.1247	8.3491	1828.4	266033	582
583	339889	198155287	24.1454	8.3539	1831.6	266948	583
584	341056	199176704	24.1661	8.3587	1834.7	267865	584
585	342225	200201625	24.1868	8.3634	1837.8	268783	585
586	343396	201230056	24.2074	8.3682	1841.0	269701	586
587	344569	202262003	24.2281	8.3730	1844.1	270624	587
588	345744	203297472	24.2487	8.3777	1847.3	271547	588
589	346921	204336469	24.2693	8.3825	1850.4	272471	589
590	348100	205379000	24.2899	8.3872	1853.5	273397	590
591	349281	206425071	24.3105	8.3919	1856.7	274325	591
592	350464	207474688	24.3311	8.3967	1859.8	275254	592
593	351649	208527857	24.3516	8.4014	1863.0	276184	593
594	352836	209584584	24.3721	8.4061	1866.1	277117	594
595	354025	210644875	24.3926	8.4108	1869.3	278051	595
596	355216	211708736	24.4131	8.4155	1872.4	278986	596
597	356409	212776173	24.4336	8.4202	1875.5	279923	597
598	357604	213847192	24.4540	8.4249	1878.7	280862	598
599	358801	214921799	24.4745	8.4296	1881.8	281802	599

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
600	360000	216000000	24.4949	8.4343	1885.0	282743	600
601	361201	217081801	24.5153	8.4390	1888.1	283687	601
602	362404	218167208	24.5357	8.4437	1891.2	284631	602
603	363609	219256227	24.5561	8.4484	1894.4	285578	603
604	364816	220348864	24.5764	8.4530	1897.5	286526	604
605	366025	221445125	24.5967	8.4577	1900.7	287475	605
606	367236	222545016	24.6171	8.4623	1903.8	288426	606
607	368449	223648543	24.6374	8.4670	1907.0	289379	607
608	369664	224755712	24.6577	8.4716	1910.1	290333	608
609	370881	225866529	24.6779	8.4763	1913.2	291289	609
610	372100	226981000	24.6982	8.4809	1916.4	292247	610
611	373321	228099131	24.7184	8.4856	1919.5	293206	611
612	374544	229220928	24.7386	8.4902	1922.7	294166	612
613	375769	230346397	24.7588	8.4948	1925.8	295128	613
614	376996	231475544	24.7790	8.4994	1928.9	296092	614
615	378225	232608375	24.7992	8.5040	1932.1	297057	615
616	379456	233744896	24.8193	8.5086	1935.2	298024	616
617	380689	234885113	24.8395	8.5132	1938.4	298992	617
618	381924	236029032	24.8596	8.5178	1941.5	299962	618
619	383161	237176659	24.8797	8.5224	1944.7	300934	619
620	384400	238328000	24.8998	8.5270	1947.8	301907	620
621	385641	239483061	24.9199	8.5316	1950.9	302882	621
622	386884	240641848	24.9399	8.5462	1954.1	303858	622
623	388129	241804367	24.9600	8.5408	1957.2	304836	623
624	389376	242970624	24.9800	8.5453	1960.4	305815	624
625	390625	244140625	25.0000	8.5499	1963.5	306796	625
626	391876	245314376	25.0200	8.5544	1966.6	307779	626
627	393129	246491883	25.0400	8.5590	1969.8	308763	627
628	394384	247673152	25.0599	8.5635	1972.9	309748	628
629	395641	248858189	25.0799	8.5681	1976.1	310736	629
630	396900	250047000	25.0998	8.5726	1979.2	311725	630
631	398161	251239591	25.1197	8.5772	1982.4	312715	631
632	399424	252435968	25.1396	8.5817	1985.5	313707	632
633	400689	253636137	25.1595	8.5862	1988.6	314700	633
634	401956	254840104	25.1794	8.5907	1991.8	315696	634
635	403225	256047875	25.1992	8.5952	1994.9	316692	635
636	404496	257259456	25.2190	8.5997	1998.1	317690	636
637	405769	258474853	25.2389	8.6043	2001.2	318690	637
638	407044	259694072	25.2587	8.6088	2004.3	319692	638
639	408321	260917119	25.2784	8.6132	2007.5	320695	639
640	409600	262144000	25.2982	8.6177	2010.6	321699	640
641	410881	263374721	25.3180	8.6222	2013.8	322705	641
642	412164	264609288	25.3377	8.6267	2016.9	323713	642
643	413449	265847707	25.3574	8.6312	2020.0	324722	643
644	414736	267089984	25.3772	8.6357	2023.2	325733	644
645	416025	268336125	25.3969	8.6401	2026.3	326745	645
646	417316	269586136	25.4165	8.6446	2029.5	327759	646
647	418609	270840023	25.4362	8.6490	2032.6	328775	647
648	419904	272097792	25.4558	8.6535	2035.8	329792	648
649	421201	273359449	25.4755	8.6579	2038.9	330810	649

TABLE II.—POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
650	422500	274625000	25.4951	8.6624	2042.0	331831	650
651	423801	275894451	25.5147	8.6668	2045.2	332853	651
652	425104	277167808	25.5343	8.6713	2048.3	333876	652
653	426409	278445077	25.5539	8.6757	2051.5	334901	653
654	427716	279726264	25.5734	8.6801	2054.6	335927	654
655	429025	281011375	25.5930	8.6845	2057.7	336955	655
656	430336	282300416	25.6125	8.6890	2060.9	337985	656
657	431649	283593393	25.6320	8.6934	2064.0	339016	657
658	432964	284890312	25.6515	8.6978	2067.2	340049	658
659	434281	286191179	25.6710	8.7022	2070.3	341084	659
660	435600	287496000	25.6905	8.7066	2073.5	342119	660
661	436921	288804781	25.7099	8.7110	2076.6	343157	661
662	438244	290117528	25.7294	8.7154	2079.7	344196	662
663	439569	291434247	25.7488	8.7198	2082.9	345237	663
664	440896	292754944	25.7682	8.7241	2086.0	346279	664
665	442225	294079625	25.7876	8.7285	2089.2	347323	665
666	443556	295408296	25.8070	8.7329	2092.3	348368	666
667	444889	296740963	25.8263	8.7373	2095.4	349415	667
668	446224	298077632	25.8457	8.7416	2098.6	350464	668
669	447561	299418309	25.8650	8.7460	2101.7	351514	669
670	448900	300763000	25.8844	8.7503	2104.9	352565	670
671	450241	302111711	25.9037	8.7547	2108.0	353618	671
672	451584	303464448	25.9230	8.7590	2111.2	354673	672
673	452929	304821217	25.9422	8.7634	2114.3	355730	673
674	454276	306182024	25.9615	8.7677	2117.4	356788	674
675	455625	307546875	25.9808	8.7721	2120.6	357847	675
676	456976	308915776	26.0000	8.7764	2123.7	358908	676
677	458329	310288733	26.0192	8.7807	2126.9	359971	677
678	459684	311665752	26.0384	8.7850	2130.0	361035	678
679	461041	313046839	26.0576	8.7893	2133.1	362101	679
680	462400	314432000	26.0768	8.7937	2136.3	363168	680
681	463761	315821241	26.0960	8.7980	2139.4	364237	681
682	465124	317214568	26.1151	8.8023	2142.6	365308	682
683	466489	318611987	26.1343	8.8066	2145.7	366380	683
684	467856	320013504	26.1534	8.8109	2148.9	367453	684
685	469225	321419125	26.1725	8.8152	2152.0	368528	685
686	470596	322828856	26.1916	8.8194	2155.1	369605	686
687	471969	324242703	26.2107	8.8237	2158.3	370684	687
688	473344	325660672	26.2298	8.8280	2161.4	371764	688
689	474721	327082769	26.2488	8.8323	2164.6	372845	689
690	476100	328509000	26.2679	8.8366	2167.7	373928	690
691	477481	329939371	26.2869	8.8408	2170.8	375013	691
692	478864	331373888	26.3059	8.8451	2174.0	376099	692
693	480249	332812557	26.3249	8.8493	2177.1	377187	693
694	481636	334255384	26.3439	8.8536	2180.3	378276	694
695	483025	335702375	26.3629	8.8578	2183.4	379367	695
696	484416	337153536	26.3818	8.8621	2186.6	380459	696
697	485809	338608873	26.4008	8.8663	2189.7	381554	697
698	487204	340068392	26.4197	8.8706	2192.8	382649	698
699	488601	341532099	26.4386	8.8748	2196.0	383746	699

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
700	490000	343000000	26.4575	8.8790	2199.1	384845	700
701	491401	344472101	26.4764	8.8833	2202.3	385945	701
702	492804	345948408	26.4953	8.8875	2205.4	387047	702
703	494209	347428927	26.5141	8.8917	2208.5	388151	703
704	495616	348913664	26.5330	8.8959	2211.7	389256	704
705	497025	350402625	26.5518	8.9001	2214.8	390363	705
706	498436	351895816	26.5707	8.9043	2218.0	391471	706
707	499849	353393243	26.5895	8.9085	2221.1	392580	707
708	501264	354894912	26.6083	8.9127	2224.3	393692	708
709	502681	356400829	26.6271	8.9169	2227.4	394805	709
710	504100	357911000	26.6458	8.9211	2230.5	395919	710
711	505521	359425431	26.6646	8.9253	2233.7	397035	711
712	506944	360944128	26.6833	8.9295	2236.8	398153	712
713	508369	362467097	26.7021	8.9337	2240.0	399272	713
714	509796	363994344	26.7208	8.9378	2243.1	400393	714
715	511225	365525875	26.7395	8.9420	2246.2	401515	715
716	512656	367061696	26.7582	8.9462	2249.4	402639	716
717	514089	368601813	26.7769	8.9503	2252.5	403765	717
718	515524	370146232	26.7955	8.9545	2255.7	404892	718
719	516961	371694959	26.8142	8.9587	2258.8	406020	719
720	518400	373248000	26.8328	8.9628	2261.9	407150	720
721	519841	374805361	26.8514	8.9670	2265.1	408282	721
722	521284	376367048	26.8701	8.9711	2268.2	409416	722
723	522729	377933067	26.8887	8.9752	2271.4	410550	723
724	524176	379503424	26.9072	8.9794	2274.5	411687	724
725	525625	381078125	26.9258	8.9835	2277.7	412825	725
726	527076	382657176	26.9444	8.9876	2280.8	413965	726
727	528529	384240583	26.9629	8.9918	2283.9	415106	727
728	529984	385828352	26.9815	8.9959	2287.1	416248	728
729	531441	387420489	27.0000	9.0000	2290.2	417393	729
730	532900	389017000	27.0185	9.0041	2293.4	418539	730
731	534361	390617891	27.0370	9.0082	2296.5	419686	731
732	535824	392223168	27.0555	9.0123	2299.7	420835	732
733	537289	393832837	27.0740	9.0164	2302.8	421986	733
734	538756	395446904	27.0924	9.0205	2305.9	423138	734
735	540225	397065375	27.1109	9.0246	2309.1	424293	735
736	541696	398688256	27.1293	9.0287	2312.2	425448	736
737	543169	400315553	27.1477	9.0328	2315.4	426604	737
738	544644	401947272	27.1662	9.0369	2318.5	427762	738
739	546121	403583419	27.1846	9.0410	2321.6	428922	739
740	547600	405224000	27.2029	9.0450	2324.8	430084	740
741	549081	406869021	27.2213	9.0491	2327.9	431247	741
742	550564	408518488	27.2397	9.0532	2331.1	432412	742
743	552049	410172407	27.2580	9.0572	2334.2	433578	743
744	553536	411830784	27.2764	9.0613	2337.3	434746	744
745	555025	413493625	27.2947	9.0654	2340.5	435916	745
746	556516	415160936	27.3130	9.0694	2343.6	437087	746
747	558009	416832723	27.3313	9.0735	2346.8	438259	747
748	559504	418508992	27.3496	9.0775	2349.9	439433	748
749	561001	420189749	27.3679	9.0816	2353.1	440609	749

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
750	562500	421875000	27.3861	9.0856	2356.2	441786	750
751	564001	423564751	27.4044	9.0896	2359.3	442965	751
752	565504	425259008	27.4226	9.0937	2362.5	444146	752
753	567009	426957777	27.4408	9.0977	2365.6	445328	753
754	568516	428661064	27.4591	9.1017	2368.8	446511	754
755	570025	430368875	27.4773	9.1057	2371.9	447697	755
756	571536	432081216	27.4955	9.1098	2375.0	448883	756
757	573049	433798093	27.5136	9.1138	2378.2	450072	757
758	574564	435519512	27.5318	9.1178	2381.3	451262	758
759	576081	437245479	27.5500	9.1218	2384.5	452453	759
760	577600	438976000	27.5681	9.1258	2387.6	453646	760
761	579121	440711081	27.5862	9.1298	2390.8	454841	761
762	580644	442450728	27.6043	9.1338	2393.9	456037	762
763	582169	444194947	27.6225	9.1378	2397.0	457234	763
764	583696	445943744	27.6405	9.1418	2400.2	458434	764
765	585225	447697125	27.6586	9.1458	2403.3	459635	765
766	586756	449455096	27.6767	9.1498	2406.5	460837	766
767	588289	451217663	27.6948	9.1537	2409.6	462042	767
768	589824	452984832	27.7128	9.1577	2412.7	463247	768
769	591361	454756609	27.7308	9.1617	2415.9	464454	769
770	592900	456533000	27.7489	9.1657	2419.0	465663	770
771	594441	458314011	27.7669	9.1696	2422.2	466873	771
772	595984	460099648	27.7849	9.1736	2425.3	468085	772
773	597529	461889917	27.8029	9.1775	2428.5	469298	773
774	599076	463684824	27.8209	9.1815	2431.6	470513	774
775	600625	465484375	27.8388	9.1855	2434.7	471730	775
776	602176	467288576	27.8568	9.1894	2437.9	472948	776
777	603729	469097433	27.8747	9.1933	2441.0	474168	777
778	605284	470910952	27.8927	9.1973	2444.2	475389	778
779	606841	472729139	27.9106	9.2012	2447.3	476612	779
780	608400	474552000	27.9285	9.2052	2450.4	477836	780
781	609961	476379541	27.9464	9.2091	2453.6	479062	781
782	611524	478211768	27.9643	9.2130	2456.7	480290	782
783	613089	480048687	27.9821	9.2170	2459.9	481519	783
784	614656	481890304	28.0000	9.2209	2463.0	482750	784
785	616225	483736625	28.0179	9.2248	2466.2	483982	785
786	617796	485587656	28.0357	9.2287	2469.3	485216	786
787	619369	487443403	28.0535	9.2326	2472.4	486451	787
788	620944	489303872	28.0713	9.2365	2475.6	487688	788
789	622521	491169069	28.0891	9.2404	2478.7	488927	789
790	624100	493039000	28.1069	9.2443	2481.9	490167	790
791	625681	494913671	28.1247	9.2482	2485.0	491409	791
792	627264	496793088	28.1425	9.2521	2488.1	492652	792
793	628849	498677257	28.1603	9.2560	2491.3	493897	793
794	630436	500566184	28.1780	9.2599	2494.4	495143	794
795	632025	502459875	28.1957	9.2638	2497.6	496391	795
796	633616	504358336	28.2135	9.2677	2500.7	497641	796
797	635209	506261573	28.2312	9.2716	2503.8	498892	797
798	636804	508169592	28.2489	9.2754	2507.0	500145	798
799	638401	510082399	28.2666	9.2793	2510.1	501399	799

TABLE II.—POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
800	640000	512000000	28.2843	9.2832	2513.3	502655	800
801	641601	513922401	28.3019	9.2870	2516.4	503912	801
802	643204	515849608	28.3196	9.2909	2519.6	505171	802
803	644809	517781627	28.3373	9.2948	2522.7	506432	803
804	646416	519718464	28.3549	9.2986	2525.8	507694	804
805	648025	521660125	28.3725	9.3025	2529.0	508958	805
806	649636	523606616	28.3901	9.3063	2532.1	510223	806
807	651249	525557943	28.4077	9.3102	2535.3	511490	807
808	652864	527514112	28.4253	9.3140	2538.4	512758	808
809	654481	529475129	28.4429	9.3179	2541.5	514028	809
810	656100	531441000	28.4605	9.3217	2544.7	515300	810
811	657721	533411731	28.4781	9.3255	2547.8	516573	811
812	659344	535387328	28.4956	9.3294	2551.0	517848	812
813	660969	537367797	28.5132	9.3332	2554.1	519124	813
814	662596	539353144	28.5307	9.3370	2557.3	520402	814
815	664225	541343375	28.5482	9.3408	2560.4	521681	815
816	665856	543338496	28.5657	9.3447	2563.5	522962	816
817	667489	545338513	28.5832	9.3485	2566.7	524245	817
818	669124	547343432	28.6007	9.3523	2569.8	525529	818
819	670761	549353259	28.6182	9.3561	2573.0	526814	819
820	672400	551368000	28.6356	9.3599	2576.1	528102	820
821	674041	553387661	28.6531	9.3637	2579.2	529391	821
822	675684	555412248	28.6705	9.3675	2582.4	530681	822
823	677329	557441767	28.6880	9.3713	2585.5	531973	823
824	678976	559476224	28.7054	9.3751	2588.7	533267	824
825	680625	561515625	28.7228	9.3789	2591.8	534562	825
826	682276	563559976	28.7402	9.3827	2595.0	535858	826
827	683929	565609283	28.7576	9.3865	2598.1	537157	827
828	685584	567663552	28.7750	9.3902	2601.2	538456	828
829	687241	569722789	28.7924	9.3940	2604.4	539758	829
830	688900	571787000	28.8097	9.3978	2607.5	541061	830
831	690561	573856191	28.8271	9.4016	2610.7	542365	831
832	692224	575930368	28.8444	9.4053	2613.8	543671	832
833	693889	578009537	28.8617	9.4091	2616.9	544979	833
834	695556	580093704	28.8791	9.4129	2620.1	546288	834
835	697225	582182875	28.8964	9.4166	2623.2	547599	835
836	698896	584277056	28.9137	9.4204	2626.4	548912	836
837	700569	586376253	28.9310	9.4241	2629.5	550226	837
838	702244	588480472	28.9482	9.4279	2632.7	551541	838
839	703921	590589719	28.9655	9.4316	2635.8	552858	839
840	705600	592704000	28.9828	9.4354	2638.9	554177	840
841	707281	594823321	29.0000	9.4391	2642.1	555497	841
842	708964	596947688	29.0172	9.4429	2645.2	556819	842
843	710649	599077107	29.0345	9.4466	2648.4	558142	843
844	712336	601211584	29.0517	9.4503	2651.5	559467	844
845	714025	603351125	29.0689	9.4541	2654.6	560794	845
846	715716	605495736	29.0861	9.4578	2657.8	562122	846
847	717409	607645423	29.1033	9.4615	2660.9	563452	847
848	719104	609800192	29.1204	9.4652	2664.1	564783	848
849	720801	611960049	29.1376	9.4690	2667.2	566116	849

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
850	722500	614125000	29.1548	9.4727	2670.4	567450	850
851	724201	616295051	29.1719	9.4764	2673.5	568786	851
852	725904	618470208	29.1890	9.4801	2676.6	570124	852
853	727609	620650477	29.2062	9.4838	2679.8	571463	853
854	729316	622835864	29.2233	9.4875	2682.9	572803	854
855	731025	625026375	29.2404	9.4912	2686.1	574146	855
856	732736	627222016	29.2575	9.4949	2689.2	575490	856
857	734449	629422793	29.2746	9.4986	2692.3	576835	857
858	736164	631628712	29.2916	9.5023	2695.5	578182	858
859	737881	633839779	29.3087	9.5060	2698.6	579530	859
860	739600	636056000	29.3258	9.5097	2701.8	580880	860
861	741321	638277381	29.3428	9.5134	2704.9	582232	861
862	743044	640503928	29.3598	9.5171	2708.1	583585	862
863	744769	642735647	29.3769	9.5207	2711.2	584940	863
864	746496	644972544	29.3939	9.5244	2714.3	586297	864
865	748225	647214625	29.4109	9.5281	2717.5	587655	865
866	749956	649461896	29.4279	9.5317	2720.6	589014	866
867	751689	651714363	29.4449	9.5354	2723.8	590375	867
868	753424	653972032	29.4618	9.5391	2726.9	591738	868
869	755161	656234909	29.4788	9.5427	2730.0	593102	869
870	756900	658503000	29.4958	9.5464	2733.2	594468	870
871	758641	660776311	29.5127	9.5501	2736.3	595835	871
872	760384	663054848	29.5296	9.5537	2739.5	597204	872
873	762129	665338617	29.5466	9.5574	2742.6	598575	873
874	763876	667627624	29.5635	9.5610	2745.8	599947	874
875	765625	669921875	29.5804	9.5647	2748.9	601320	875
876	767376	672221376	29.5973	9.5683	2752.0	602696	876
877	769129	674526133	29.6142	9.5719	2755.2	604073	877
878	770884	676836152	29.6311	9.5756	2758.3	605451	878
879	772641	679151439	29.6479	9.5792	2761.5	606831	879
880	774400	681472000	29.6648	9.5828	2764.6	608212	880
881	776161	683797841	29.6816	9.5865	2767.7	609595	881
882	777924	686128968	29.6985	9.5901	2770.9	610980	882
883	779689	688465387	29.7153	9.5937	2774.0	612366	883
884	781456	690807104	29.7321	9.5973	2777.2	613754	884
885	783225	693154125	29.7489	9.6010	2780.3	615143	885
886	784996	695506456	29.7658	9.6046	2783.5	616534	886
887	786769	697864103	29.7825	9.6082	2786.6	617927	887
888	788544	700227072	29.7993	9.6118	2789.7	619321	888
889	790321	702595369	29.8161	9.6154	2792.9	620717	889
890	792100	704969000	29.8329	9.6190	2796.0	622114	890
891	793881	707347971	29.8496	9.6226	2799.2	623513	891
892	795664	709732288	29.8664	9.6262	2802.3	624913	892
893	797449	712121957	29.8831	9.6298	2805.4	626315	893
894	799236	714516984	29.8998	9.6334	2808.6	627718	894
895	801025	716917375	29.9166	9.6370	2811.7	629124	895
896	802816	719323136	29.9333	9.6406	2814.9	630530	896
897	804609	721734273	29.9500	9.6442	2818.0	631938	897
898	806404	724150792	29.9666	9.6477	2821.2	633348	898
899	808201	726572699	29.9833	9.6513	2824.3	634760	899

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
900	810000	729000000	30.0000	9.6549	2827.4	636173	900
901	811801	731432701	30.0167	9.6585	2830.6	637587	901
902	813604	733870808	30.0333	9.6620	2833.7	639003	902
903	815409	736314327	30.0500	9.6656	2836.9	640421	903
904	817216	738763264	30.0666	9.6692	2840.0	641840	904
905	819025	741217625	30.0832	9.6727	2843.1	643261	905
906	820836	743677416	30.0998	9.6763	2846.3	644683	906
907	822649	746142643	30.1164	9.6799	2849.4	646107	907
908	824464	748613312	30.1330	9.6834	2852.6	647533	908
909	826281	751089429	30.1496	9.6870	2855.7	648960	909
910	828100	753571000	30.1662	9.6905	2858.8	650388	910
911	829921	756058031	30.1828	9.6941	2862.0	651818	911
912	831744	758550528	30.1993	9.6976	2865.1	653250	912
913	833569	761048497	30.2159	9.7012	2868.3	654684	913
914	835396	763551944	30.2324	9.7047	2871.4	656118	914
915	837225	766060875	30.2490	9.7082	2874.6	657555	915
916	839056	768575296	30.2655	9.7118	2877.7	658993	916
917	840889	771095213	30.2820	9.7153	2880.8	660433	917
918	842724	773620632	30.2985	9.7188	2884.0	661874	918
919	844561	776151559	30.3150	9.7224	2887.1	663317	919
920	846400	778688000	30.3315	9.7259	2890.3	664761	920
921	848241	781229961	30.3480	9.7294	2893.4	666207	921
922	850084	783777448	30.3645	9.7329	2896.5	667654	922
923	851929	786330467	30.3809	9.7364	2899.7	669103	923
924	853776	788889024	30.3974	9.7400	2902.8	670554	924
925	855625	791453125	30.4138	9.7435	2906.0	672006	925
926	857476	794022776	30.4302	9.7470	2909.1	673460	926
927	859329	796597983	30.4467	9.7505	2912.3	674915	927
928	861184	799178752	30.4631	9.7540	2915.4	676372	928
929	863041	801765089	30.4795	9.7575	2918.5	677831	929
930	864900	804357000	30.4959	9.7610	2921.7	679291	930
931	866761	806954491	30.5123	9.7645	2924.8	680752	931
932	868624	809557568	30.5287	9.7680	2928.0	682216	932
933	870489	812166237	30.5450	9.7715	2931.1	683680	933
934	872356	814780504	30.5614	9.7750	2934.2	685147	934
935	874225	817400375	30.5778	9.7785	2937.4	686615	935
936	876096	820025856	30.5941	9.7819	2940.5	688084	936
937	877969	822656953	30.6105	9.7854	2943.7	689555	937
938	879844	825293672	30.6268	9.7889	2946.8	691028	938
939	881721	827936019	30.6431	9.7924	2950.0	692502	939
940	883600	830584000	30.6594	9.7959	2953.1	693978	940
941	885481	833237621	30.6757	9.7993	2956.2	695455	941
942	887364	835896888	30.6920	9.8028	2959.4	696934	942
943	889249	838561807	30.7083	9.8063	2962.5	698415	943
944	891136	841232384	30.7246	9.8097	2965.7	699897	944
945	893025	843908625	30.7409	9.8132	2968.8	701380	945
946	894916	846590536	30.7571	9.8167	2971.9	702865	946
947	896809	849278123	30.7734	9.8201	2975.1	704352	947
948	898704	851971392	30.7896	9.8236	2978.2	705840	948
949	900601	854670349	30.8058	9.8270	2981.4	707330	949

TABLE II. — POWERS, ROOTS, CIRCUMFERENCES AND AREAS

No.	Square	Cube	Square Root	Cube Root	No. = Diam.		No.
					Circum.	Area	
950	902500	857375000	30.8221	9.8305	2984.5	708822	950
951	904401	860085351	30.8383	9.8339	2987.7	710315	951
952	906304	862801408	30.8545	9.8374	2990.8	711809	952
953	908209	865523177	30.8707	9.8408	2993.9	713306	953
954	910116	868250664	30.8869	9.8443	2997.1	714803	954
955	912025	870983875	30.9031	9.8477	3000.2	716303	955
956	913936	873722816	30.9192	9.8511	3003.4	717804	956
957	915849	876467493	30.9354	9.8546	3006.5	719306	957
958	917764	879217912	30.9516	9.8580	3009.6	720810	958
959	919681	881974079	30.9677	9.8614	3012.8	722316	959
960	921600	884736000	30.9839	9.8648	3015.9	723823	960
961	923521	887503681	31.0000	9.8683	3019.1	725332	961
962	925444	890277128	31.0161	9.8717	3022.2	726842	962
963	927369	893056347	31.0322	9.8751	3025.4	728354	963
964	929296	895841344	31.0483	9.8785	3028.5	729867	964
965	931225	898632125	31.0644	9.8819	3031.6	731382	965
966	933156	901428696	31.0805	9.8854	3034.8	732899	966
967	935089	904231063	31.0966	9.8888	3037.9	734417	967
968	937024	907039232	31.1127	9.8922	3041.1	735937	968
969	938961	909853209	31.1288	9.8956	3044.2	737458	969
970	940900	912673000	31.1448	9.8990	3047.3	738981	970
971	942841	915498611	31.1609	9.9024	3050.5	740506	971
972	944784	918330048	31.1769	9.9058	3053.6	742032	972
973	946729	921167317	31.1929	9.9092	3056.8	743559	973
974	948676	924010424	31.2090	9.9126	3059.9	745088	974
975	950625	926859375	31.2250	9.9160	3063.1	746619	975
976	952576	929714176	31.2410	9.9194	3066.2	748151	976
977	954529	932574833	31.2570	9.9227	3069.3	749685	977
978	956484	935441352	31.2730	9.9261	3072.5	751221	978
979	958441	938313739	31.2890	9.9295	3075.6	752758	979
980	960400	941192000	31.3050	9.9329	3078.8	754296	980
981	962361	944076141	31.3209	9.9363	3081.9	755837	981
982	964324	946966168	31.3369	9.9396	3085.0	757378	982
983	966289	949862087	31.3528	9.9430	3088.2	758922	983
984	968256	952763904	31.3688	9.9464	3091.3	760466	984
985	970225	955671625	31.3847	9.9497	3094.5	762013	985
986	972196	958585256	31.4006	9.9531	3097.6	763561	986
987	974169	961504803	31.4166	9.9565	3100.8	765111	987
988	976144	964430272	31.4325	9.9598	3103.9	766662	988
989	978121	967361669	31.4484	9.9632	3107.0	768214	989
990	980100	970299000	31.4643	9.9666	3110.2	769769	990
991	982081	973242271	31.4802	9.9699	3113.3	771325	991
992	984064	976191488	31.4960	9.9733	3116.5	772882	992
993	986049	979146657	31.5119	9.9766	3119.6	774441	993
994	988036	982107784	31.5278	9.9800	3122.7	776002	994
995	990025	985074875	31.5436	9.9833	3125.9	777564	995
996	992016	988047936	31.5595	9.9866	3129.0	779128	996
997	994009	991026973	31.5753	9.9900	3132.2	780693	997
998	996004	994011992	31.5911	9.9933	3135.3	782260	998
999	998001	997002999	31.6070	9.9967	3138.5	783828	999

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
100	00 000	00 043	00 087	00 130	00 173	00 217	00 260	00 303	00 346	00 389
101	00 432	00 475	00 518	00 561	00 604	00 647	00 689	00 732	00 775	00 817
102	00 860	00 903	00 945	00 988	01 030	01 072	01 115	01 157	01 199	01 242
103	01 284	01 326	01 368	01 410	01 452	01 494	01 536	01 578	01 620	01 662
104	01 703	01 745	01 787	01 828	01 870	01 912	01 953	01 995	02 036	02 078
105	02 119	02 160	02 202	02 243	02 284	02 325	02 366	02 407	02 449	02 490
106	02 531	02 572	02 612	02 653	02 694	02 735	02 776	02 816	02 857	02 898
107	02 938	02 979	03 019	03 060	03 100	03 141	03 181	03 222	03 262	03 302
108	03 342	03 383	03 423	03 463	03 503	03 543	03 583	03 623	03 663	03 703
109	03 743	03 782	03 822	03 862	03 902	03 941	03 981	04 021	04 060	04 100
110	04 139	04 179	04 218	04 258	04 297	04 336	04 376	04 415	04 454	04 493
111	04 532	04 571	04 610	04 650	04 689	04 727	04 766	04 805	04 844	04 883
112	04 922	04 961	04 999	05 038	05 077	05 115	05 154	05 192	05 231	05 269
113	05 308	05 346	05 385	05 423	05 461	05 500	05 538	05 576	05 614	05 652
114	05 690	05 729	05 767	05 805	05 843	05 881	05 918	05 956	05 994	06 032
115	06 070	06 108	06 145	06 183	06 221	06 258	06 296	06 333	06 371	06 408
116	06 446	06 483	06 521	06 558	06 595	06 633	06 670	06 707	06 744	06 781
117	06 819	06 856	06 893	06 930	06 967	07 004	07 041	07 078	07 115	07 151
118	07 188	07 225	07 262	07 298	07 335	07 372	07 408	07 445	07 482	07 518
119	07 555	07 591	07 628	07 664	07 700	07 737	07 773	07 809	07 846	07 882
120	07 918	07 954	07 990	08 027	08 063	08 099	08 135	08 171	08 207	08 243
121	08 279	08 314	08 350	08 386	08 422	08 458	08 493	08 529	08 565	08 600
122	08 636	08 672	08 707	08 743	08 778	08 814	08 849	08 884	08 920	08 955
123	08 991	09 026	09 061	09 096	09 132	09 167	09 202	09 237	09 272	09 307
124	09 342	09 377	09 412	09 447	09 482	09 517	09 552	09 587	09 621	09 656
125	09 691	09 726	09 760	09 795	09 830	09 864	09 899	09 934	09 968	10 003
126	10 037	10 072	10 106	10 140	10 175	10 209	10 243	10 278	10 312	10 346
127	10 380	10 415	10 449	10 483	10 517	10 551	10 585	10 619	10 653	10 687
128	10 721	10 755	10 789	10 823	10 857	10 890	10 924	10 958	10 992	11 025
129	11 059	11 093	11 126	11 160	11 193	11 227	11 261	11 294	11 327	11 361
130	11 394	11 428	11 461	11 494	11 528	11 561	11 594	11 628	11 661	11 694
131	11 727	11 760	11 793	11 826	11 860	11 893	11 926	11 959	11 992	12 024
132	12 057	12 090	12 123	12 156	12 189	12 222	12 254	12 287	12 320	12 352
133	12 385	12 418	12 450	12 483	12 516	12 548	12 581	12 613	12 646	12 678
134	12 710	12 743	12 775	12 808	12 840	12 872	12 905	12 937	12 969	13 001
135	13 033	13 066	13 098	13 130	13 162	13 194	13 226	13 258	13 290	13 322
136	13 354	13 386	13 418	13 450	13 481	13 513	13 545	13 577	13 609	13 640
137	13 672	13 704	13 735	13 767	13 799	13 830	13 862	13 893	13 925	13 956
138	13 988	14 019	14 051	14 082	14 114	14 145	14 176	14 208	14 239	14 270
139	14 301	14 333	14 364	14 395	14 426	14 457	14 489	14 520	14 551	14 582
140	14 613	14 644	14 675	14 706	14 737	14 768	14 799	14 829	14 860	14 891
141	14 922	14 953	14 983	15 014	15 045	15 076	15 106	15 137	15 168	15 198
142	15 229	15 259	15 290	15 320	15 351	15 381	15 412	15 442	15 473	15 503
143	15 534	15 564	15 594	15 625	15 655	15 685	15 715	15 746	15 776	15 806
144	15 836	15 866	15 897	15 927	15 957	15 987	16 017	16 047	16 077	16 107
145	16 137	16 167	16 197	16 227	16 256	16 286	16 316	16 346	16 376	16 406
146	16 435	16 465	16 495	16 524	16 554	16 584	16 613	16 643	16 673	16 702
147	16 732	16 761	16 791	16 820	16 850	16 879	16 909	16 938	16 967	16 997
148	17 026	17 056	17 085	17 114	17 143	17 173	17 202	17 231	17 260	17 289
149	17 319	17 348	17 377	17 406	17 435	17 464	17 493	17 522	17 551	17 580
150	17 609	17 638	17 667	17 696	17 725	17 754	17 782	17 811	17 840	17 869

TABLE III. — LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
150	17 609	17 638	17 667	17 696	17 725	17 754	17 782	17 811	17 840	17 869
151	17 898	17 926	17 955	17 984	18 013	18 041	18 070	18 099	18 127	18 156
152	18 184	18 213	18 241	18 270	18 298	18 327	18 355	18 384	18 412	18 441
153	18 469	18 498	18 526	18 554	18 583	18 611	18 639	18 667	18 696	18 724
154	18 752	18 780	18 808	18 837	18 865	18 893	18 921	18 949	18 977	19 005
155	19 033	19 061	19 089	19 117	19 145	19 173	19 201	19 229	19 257	19 285
156	19 312	19 340	19 368	19 396	19 424	19 451	19 479	19 507	19 535	19 562
157	19 590	19 618	19 645	19 673	19 700	19 728	19 756	19 783	19 811	19 838
158	19 866	19 893	19 921	19 948	19 976	20 003	20 030	20 058	20 085	20 112
159	20 140	20 167	20 194	20 222	20 249	20 276	20 303	20 330	20 358	20 385
160	20 412	20 439	20 466	20 493	20 520	20 548	20 575	20 602	20 629	20 656
161	20 683	20 710	20 737	20 763	20 790	20 817	20 844	20 871	20 898	20 925
162	20 952	20 978	21 005	21 032	21 059	21 085	21 112	21 139	21 165	21 192
163	21 219	21 245	21 272	21 299	21 325	21 352	21 378	21 405	21 431	21 458
164	21 484	21 511	21 537	21 564	21 590	21 617	21 643	21 669	21 696	21 722
165	21 748	21 775	21 801	21 827	21 854	21 880	21 906	21 932	21 958	21 985
166	22 011	22 037	22 063	22 089	22 115	22 141	22 167	22 194	22 220	22 246
167	22 272	22 298	22 324	22 350	22 376	22 401	22 427	22 453	22 479	22 505
168	22 531	22 557	22 583	22 608	22 634	22 660	22 686	22 712	22 737	22 763
169	22 789	22 814	22 840	22 866	22 891	22 917	22 943	22 968	22 994	23 019
170	23 045	23 070	23 096	23 121	23 147	23 172	23 198	23 223	23 249	23 274
171	23 300	23 325	23 350	23 376	23 401	23 426	23 452	23 477	23 502	23 528
172	23 553	23 578	23 603	23 629	23 654	23 679	23 704	23 729	23 754	23 779
173	23 805	23 830	23 855	23 880	23 905	23 930	23 955	23 980	24 005	24 030
174	24 055	24 080	24 105	24 130	24 155	24 180	24 204	24 229	24 254	24 279
175	24 304	24 329	24 353	24 378	24 403	24 428	24 452	24 477	24 502	24 527
176	24 551	24 576	24 601	24 625	24 650	24 674	24 699	24 724	24 748	24 773
177	24 797	24 822	24 846	24 871	24 895	24 920	24 944	24 969	24 993	25 018
178	25 042	25 066	25 091	25 115	25 139	25 164	25 188	25 212	25 237	25 261
179	25 285	25 310	25 334	25 358	25 382	25 406	25 431	25 455	25 479	25 503
180	25 527	25 551	25 575	25 600	25 624	25 648	25 672	25 696	25 720	25 744
181	25 768	25 792	25 816	25 840	25 864	25 888	25 912	25 935	25 959	25 983
182	26 007	26 031	26 055	26 079	26 102	26 126	26 150	26 174	26 198	26 221
183	26 245	26 269	26 293	26 316	26 340	26 364	26 387	26 411	26 435	26 458
184	26 482	26 505	26 529	26 553	26 576	26 600	26 623	26 647	26 670	26 694
185	26 717	26 741	26 764	26 788	26 811	26 834	26 858	26 881	26 905	26 928
186	26 951	26 975	26 998	27 021	27 045	27 068	27 091	27 114	27 138	27 161
187	27 184	27 207	27 231	27 254	27 277	27 300	27 323	27 346	27 370	27 393
188	27 416	27 439	27 462	27 485	27 508	27 531	27 554	27 577	27 600	27 623
189	27 646	27 669	27 692	27 715	27 738	27 761	27 784	27 807	27 830	27 852
190	27 875	27 898	27 921	27 944	27 967	27 989	28 012	28 035	28 058	28 081
191	28 103	28 126	28 149	28 171	28 194	28 217	28 240	28 262	28 285	28 307
192	28 330	28 353	28 375	28 398	28 421	28 443	28 466	28 488	28 511	28 533
193	28 556	28 578	28 601	28 623	28 646	28 668	28 691	28 713	28 735	28 758
194	28 780	28 803	28 825	28 847	28 870	28 892	28 914	28 937	28 959	28 981
195	29 003	29 026	29 048	29 070	29 092	29 115	29 137	29 159	29 181	29 203
196	29 226	29 248	29 270	29 292	29 314	29 336	29 358	29 380	29 403	29 425
197	29 447	29 469	29 491	29 513	29 535	29 557	29 579	29 601	29 623	29 645
198	29 667	29 688	29 710	29 732	29 754	29 776	29 798	29 820	29 842	29 863
199	29 885	29 907	29 929	29 951	29 973	29 994	30 016	30 038	30 060	30 081
200	30 103	30 125	30 146	30 168	30 190	30 211	30 233	30 255	30 276	30 298

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
200	30 103	30 125	30 146	30 168	30 190	30 211	30 233	30 255	30 276	30 298
201	30 320	30 341	30 363	30 384	30 406	30 428	30 449	30 471	30 492	30 514
202	30 535	30 557	30 578	30 600	30 621	30 643	30 664	30 685	30 707	30 728
203	30 750	30 771	30 792	30 814	30 835	30 856	30 878	30 899	30 920	30 942
204	30 963	30 984	31 006	31 027	31 048	31 069	31 091	31 112	31 133	31 154
205	31 175	31 197	31 218	31 239	31 260	31 281	31 302	31 323	31 345	31 366
206	31 387	31 408	31 429	31 450	31 471	31 492	31 513	31 534	31 555	31 576
207	31 597	31 618	31 639	31 660	31 681	31 702	31 723	31 744	31 765	31 785
208	31 806	31 827	31 848	31 869	31 890	31 911	31 931	31 952	31 973	31 994
209	32 015	32 035	32 056	32 077	32 098	32 118	32 139	32 160	32 181	32 201
210	32 222	32 243	32 263	32 284	32 305	32 325	32 346	32 366	32 387	32 408
211	32 428	32 449	32 469	32 490	32 510	32 531	32 552	32 572	32 593	32 613
212	32 634	32 654	32 675	32 695	32 715	32 736	32 756	32 777	32 797	32 818
213	32 838	32 858	32 879	32 899	32 919	32 940	32 960	32 980	33 001	33 021
214	33 041	33 062	33 082	33 102	33 122	33 143	33 163	33 183	33 203	33 224
215	33 244	33 264	33 284	33 304	33 325	33 345	33 365	33 385	33 405	33 425
216	33 445	33 465	33 486	33 506	33 526	33 546	33 566	33 586	33 606	33 626
217	33 646	33 666	33 686	33 706	33 726	33 746	33 766	33 786	33 806	33 826
218	33 846	33 866	33 885	33 905	33 925	33 945	33 965	33 985	34 005	34 025
219	34 044	34 064	34 084	34 104	34 124	34 143	34 163	34 183	34 203	34 223
220	34 242	34 262	34 282	34 301	34 321	34 341	34 361	34 380	34 400	34 420
221	34 439	34 459	34 479	34 498	34 518	34 537	34 557	34 577	34 596	34 616
222	34 635	34 655	34 674	34 694	34 713	34 733	34 753	34 772	34 792	34 811
223	34 830	34 850	34 869	34 889	34 908	34 928	34 947	34 967	34 986	35 005
224	35 025	35 044	35 064	35 083	35 102	35 122	35 141	35 160	35 180	35 199
225	35 218	35 238	35 257	35 276	35 295	35 315	35 334	35 353	35 372	35 392
226	35 411	35 430	35 449	35 468	35 488	35 507	35 526	35 545	35 564	35 583
227	35 603	35 622	35 641	35 660	35 679	35 698	35 717	35 736	35 755	35 774
228	35 793	35 813	35 832	35 851	35 870	35 889	35 908	35 927	35 946	35 965
229	35 984	36 003	36 021	36 040	36 059	36 078	36 097	36 116	36 135	36 154
230	36 173	36 192	36 211	36 229	36 248	36 267	36 286	36 305	36 324	36 342
231	36 361	36 380	36 399	36 418	36 436	36 455	36 474	36 493	36 511	36 530
232	36 549	36 568	36 586	36 605	36 624	36 642	36 661	36 680	36 698	36 717
233	36 736	36 754	36 773	36 791	36 810	36 829	36 847	36 866	36 884	36 903
234	36 922	36 940	36 959	36 977	36 996	37 014	37 033	37 051	37 070	37 088
235	37 107	37 125	37 144	37 162	37 181	37 199	37 218	37 236	37 254	37 273
236	37 291	37 310	37 328	37 346	37 365	37 383	37 401	37 420	37 438	37 457
237	37 475	37 493	37 511	37 530	37 548	37 566	37 585	37 603	37 621	37 639
238	37 658	37 676	37 694	37 712	37 731	37 749	37 767	37 785	37 803	37 822
239	37 840	37 858	37 876	37 894	37 912	37 931	37 949	37 967	37 985	38 003
240	38 021	38 039	38 057	38 075	38 093	38 112	38 130	38 148	38 166	38 184
241	38 202	38 220	38 238	38 256	38 274	38 292	38 310	38 328	38 346	38 364
242	38 382	38 399	38 417	38 435	38 453	38 471	38 489	38 507	38 525	38 543
243	38 561	38 578	38 596	38 614	38 632	38 650	38 668	38 686	38 703	38 721
244	38 739	38 757	38 775	38 792	38 810	38 828	38 846	38 863	38 881	38 899
245	38 917	38 934	38 952	38 970	38 987	39 005	39 023	39 041	39 058	39 076
246	39 094	39 111	39 129	39 146	39 164	39 182	39 199	39 217	39 235	39 252
247	39 270	39 287	39 305	39 322	39 340	39 358	39 375	39 393	39 410	39 428
248	39 445	39 463	39 480	39 498	39 515	39 533	39 550	39 568	39 585	39 602
249	39 620	39 637	39 655	39 672	39 690	39 707	39 724	39 742	39 759	39 777
250	39 794	39 811	39 829	39 846	39 863	39 881	39 898	39 915	39 933	39 950

TABLE III. — LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
250	39 794	39 811	39 829	39 846	39 863	39 881	39 898	39 915	39 933	39 950
251	39 967	39 985	40 002	40 019	40 037	40 054	40 071	40 088	40 106	40 123
252	40 140	40 157	40 175	40 192	40 209	40 226	40 243	40 261	40 278	40 295
253	40 312	40 329	40 346	40 364	40 381	40 398	40 415	40 432	40 449	40 466
254	40 483	40 500	40 518	40 535	40 552	40 569	40 586	40 603	40 620	40 637
255	40 654	40 671	40 688	40 705	40 722	40 739	40 756	40 773	40 790	40 807
256	40 824	40 841	40 858	40 875	40 892	40 909	40 926	40 943	40 960	40 976
257	40 993	41 010	41 027	41 044	41 061	41 078	41 095	41 111	41 128	41 145
258	41 162	41 179	41 196	41 212	41 229	41 246	41 263	41 280	41 296	41 313
259	41 330	41 347	41 363	41 380	41 397	41 414	41 430	41 447	41 464	41 481
260	41 497	41 514	41 531	41 547	41 564	41 581	41 597	41 614	41 631	41 647
261	41 664	41 681	41 697	41 714	41 731	41 747	41 764	41 780	41 797	41 814
262	41 830	41 847	41 863	41 880	41 896	41 913	41 929	41 946	41 963	41 979
263	41 996	42 012	42 029	42 045	42 062	42 078	42 095	42 111	42 127	42 144
264	42 160	42 177	42 193	42 210	42 226	42 243	42 259	42 275	42 292	42 308
265	42 325	42 341	42 357	42 374	42 390	42 406	42 423	42 439	42 455	42 472
266	42 488	42 504	42 521	42 537	42 553	42 570	42 586	42 602	42 619	42 635
267	42 651	42 667	42 684	42 700	42 716	42 732	42 749	42 765	42 781	42 797
268	42 813	42 830	42 846	42 862	42 878	42 894	42 911	42 927	42 943	42 959
269	42 975	42 991	43 008	43 024	43 040	43 056	43 072	43 088	43 104	43 120
270	43 136	43 152	43 169	43 185	43 201	43 217	43 233	43 249	43 265	43 281
271	43 297	43 313	43 329	43 345	43 361	43 377	43 393	43 409	43 425	43 441
272	43 457	43 473	43 489	43 505	43 521	43 537	43 553	43 569	43 584	43 600
273	43 616	43 632	43 648	43 664	43 680	43 696	43 712	43 727	43 743	43 759
274	43 775	43 791	43 807	43 823	43 838	43 854	43 870	43 886	43 902	43 917
275	43 933	43 949	43 965	43 981	43 996	44 012	44 028	44 044	44 059	44 075
276	44 091	44 107	44 122	44 138	44 154	44 170	44 185	44 201	44 217	44 232
277	44 248	44 264	44 279	44 295	44 311	44 326	44 342	44 358	44 373	44 389
278	44 404	44 420	44 436	44 451	44 467	44 483	44 498	44 514	44 529	44 545
279	44 560	44 576	44 592	44 607	44 623	44 638	44 654	44 669	44 685	44 700
280	44 716	44 731	44 747	44 762	44 778	44 793	44 809	44 824	44 840	44 855
281	44 871	44 886	44 902	44 917	44 932	44 948	44 963	44 979	44 994	45 010
282	45 025	45 040	45 056	45 071	45 086	45 102	45 117	45 133	45 148	45 163
283	45 179	45 194	45 209	45 225	45 240	45 255	45 271	45 286	45 301	45 317
284	45 332	45 347	45 362	45 378	45 393	45 408	45 423	45 439	45 454	45 469
285	45 484	45 500	45 515	45 530	45 545	45 561	45 576	45 591	45 606	45 621
286	45 637	45 652	45 667	45 682	45 697	45 712	45 728	45 743	45 758	45 773
287	45 788	45 803	45 818	45 834	45 849	45 864	45 879	45 894	45 909	45 924
288	45 939	45 954	45 969	45 984	46 000	46 015	46 030	46 045	46 060	46 075
289	46 090	46 105	46 120	46 135	46 150	46 165	46 180	46 195	46 210	46 225
290	46 240	46 255	46 270	46 285	46 300	46 315	46 330	46 345	46 359	46 374
291	46 389	46 404	46 419	46 434	46 449	46 464	46 479	46 494	46 509	46 523
292	46 538	46 553	46 568	46 583	46 598	46 613	46 627	46 642	46 657	46 672
293	46 687	46 702	46 716	46 731	46 746	46 761	46 776	46 790	46 805	46 820
294	46 835	46 850	46 864	46 879	46 894	46 909	46 923	46 938	46 953	46 967
295	46 982	46 997	47 012	47 026	47 041	47 056	47 070	47 085	47 100	47 114
296	47 129	47 144	47 159	47 173	47 188	47 202	47 217	47 232	47 246	47 261
297	47 276	47 290	47 305	47 319	47 334	47 349	47 363	47 378	47 392	47 407
298	47 422	47 436	47 451	47 465	47 480	47 494	47 509	47 524	47 538	47 553
299	47 567	47 582	47 596	47 611	47 625	47 640	47 654	47 669	47 683	47 698
300	47 712	47 727	47 741	47 756	47 770	47 784	47 799	47 813	47 828	47 842

TABLE III. — LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
300	47 712	47 727	47 741	47 756	47 770	47 784	47 799	47 813	47 828	47 842
301	47 857	47 871	47 885	47 900	47 914	47 929	47 943	47 958	47 972	47 986
302	48 001	48 015	48 029	48 044	48 058	48 073	48 087	48 101	48 116	48 130
303	48 144	48 159	48 173	48 187	48 202	48 216	48 230	48 244	48 259	48 273
304	48 287	48 302	48 316	48 330	48 344	48 359	48 373	48 387	48 401	48 416
305	48 430	48 444	48 458	48 473	48 487	48 501	48 515	48 530	48 544	48 558
306	48 572	48 586	48 601	48 615	48 629	48 643	48 657	48 671	48 686	48 700
307	48 714	48 728	48 742	48 756	48 770	48 785	48 799	48 813	48 827	48 841
308	48 855	48 869	48 883	48 897	48 911	48 926	48 940	48 954	48 968	48 982
309	48 996	49 010	49 024	49 038	49 052	49 066	49 080	49 094	49 108	49 122
310	49 136	49 150	49 164	49 178	49 192	49 206	49 220	49 234	49 248	49 262
311	49 276	49 290	49 304	49 318	49 332	49 346	49 360	49 374	49 388	49 402
312	49 415	49 429	49 443	49 457	49 471	49 485	49 499	49 513	49 527	49 541
313	49 554	49 568	49 582	49 596	49 610	49 624	49 638	49 651	49 665	49 679
314	49 693	49 707	49 721	49 734	49 748	49 762	49 776	49 790	49 803	49 817
315	49 831	49 845	49 859	49 872	49 886	49 900	49 914	49 927	49 941	49 955
316	49 969	49 982	49 996	50 010	50 024	50 037	50 051	50 065	50 079	50 092
317	50 106	50 120	50 133	50 147	50 161	50 174	50 188	50 202	50 215	50 229
318	50 243	50 256	50 270	50 284	50 297	50 311	50 325	50 338	50 352	50 365
319	50 379	50 393	50 406	50 420	50 433	50 447	50 461	50 474	50 488	50 501
320	50 515	50 529	50 542	50 556	50 569	50 583	50 596	50 610	50 623	50 637
321	50 651	50 664	50 678	50 691	50 705	50 718	50 732	50 745	50 759	50 772
322	50 786	50 799	50 813	50 826	50 840	50 853	50 866	50 880	50 893	50 907
323	50 920	50 934	50 947	50 961	50 974	50 987	51 001	51 014	51 028	51 041
324	51 055	51 068	51 081	51 095	51 108	51 121	51 135	51 148	51 162	51 175
325	51 188	51 202	51 215	51 228	51 242	51 255	51 268	51 282	51 295	51 308
326	51 322	51 335	51 348	51 362	51 375	51 388	51 402	51 415	51 428	51 441
327	51 455	51 468	51 481	51 495	51 508	51 521	51 534	51 548	51 561	51 574
328	51 587	51 601	51 614	51 627	51 640	51 654	51 667	51 680	51 693	51 706
329	51 720	51 733	51 746	51 759	51 772	51 786	51 799	51 812	51 825	51 838
330	51 851	51 865	51 878	51 891	51 904	51 917	51 930	51 943	51 957	51 970
331	51 983	51 996	52 009	52 022	52 035	52 048	52 061	52 075	52 088	52 101
332	52 114	52 127	52 140	52 153	52 166	52 179	52 192	52 205	52 218	52 231
333	52 244	52 257	52 270	52 284	52 297	52 310	52 323	52 336	52 349	52 362
334	52 375	52 388	52 401	52 414	52 427	52 440	52 453	52 466	52 479	52 492
335	52 504	52 517	52 530	52 543	52 556	52 569	52 582	52 595	52 608	52 621
336	52 634	52 647	52 660	52 673	52 686	52 699	52 711	52 724	52 737	52 750
337	52 763	52 776	52 789	52 802	52 815	52 827	52 840	52 853	52 866	52 879
338	52 892	52 905	52 917	52 930	52 943	52 956	52 969	52 982	52 994	53 007
339	53 020	53 033	53 046	53 058	53 071	53 084	53 097	53 110	53 122	53 135
340	53 148	53 161	53 173	53 186	53 199	53 212	53 224	53 237	53 250	53 263
341	53 275	53 288	53 301	53 314	53 326	53 339	53 352	53 364	53 377	53 390
342	53 403	53 415	53 428	53 441	53 453	53 466	53 479	53 491	53 504	53 517
343	53 529	53 542	53 555	53 567	53 580	53 593	53 605	53 618	53 631	53 643
344	53 656	53 668	53 681	53 694	53 706	53 719	53 732	53 744	53 757	53 769
345	53 782	53 794	53 807	53 820	53 832	53 845	53 857	53 870	53 882	53 895
346	53 908	53 920	53 933	53 945	53 958	53 970	53 983	53 995	54 008	54 020
347	54 033	54 045	54 058	54 070	54 083	54 095	54 108	54 120	54 133	54 145
348	54 158	54 170	54 183	54 195	54 208	54 220	54 233	54 245	54 258	54 270
349	54 283	54 295	54 307	54 320	54 332	54 345	54 357	54 370	54 382	54 394
350	54 407	54 419	54 432	54 444	54 456	54 469	54 481	54 494	54 506	54 518

TABLE III. — LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
350	54 407	54 419	54 432	54 444	54 456	54 469	54 481	54 494	54 506	54 518
351	54 531	54 543	54 555	54 568	54 580	54 593	54 605	54 617	54 630	54 642
352	54 654	54 667	54 679	54 691	54 704	54 716	54 728	54 741	54 753	54 765
353	54 777	54 790	54 802	54 814	54 827	54 839	54 851	54 864	54 876	54 888
354	54 900	54 913	54 925	54 937	54 949	54 962	54 974	54 986	54 998	55 011
355	55 023	55 035	55 047	55 060	55 072	55 084	55 096	55 108	55 121	55 133
356	55 145	55 157	55 169	55 182	55 194	55 206	55 218	55 230	55 242	55 255
357	55 267	55 279	55 291	55 303	55 315	55 328	55 340	55 352	55 364	55 376
358	55 388	55 400	55 413	55 425	55 437	55 449	55 461	55 473	55 485	55 497
359	55 509	55 522	55 534	55 546	55 558	55 570	55 582	55 594	55 606	55 618
360	55 630	55 642	55 654	55 666	55 678	55 691	55 703	55 715	55 727	55 739
361	55 751	55 763	55 775	55 787	55 799	55 811	55 823	55 835	55 847	55 859
362	55 871	55 883	55 895	55 907	55 919	55 931	55 943	55 955	55 967	55 979
363	55 991	56 003	56 015	56 027	56 038	56 050	56 062	56 074	56 086	56 098
364	56 110	56 122	56 134	56 146	56 158	56 170	56 182	56 194	56 205	56 217
365	56 229	56 241	56 253	56 265	56 277	56 289	56 301	56 312	56 324	56 336
366	56 348	56 360	56 372	56 384	56 396	56 407	56 419	56 431	56 443	56 455
367	56 467	56 478	56 490	56 502	56 514	56 526	56 538	56 549	56 561	56 573
368	56 585	56 597	56 608	56 620	56 632	56 644	56 656	56 667	56 679	56 691
369	56 703	56 714	56 726	56 738	56 750	56 761	56 773	56 785	56 797	56 808
370	56 820	56 832	56 844	56 855	56 867	56 879	56 891	56 902	56 914	56 926
371	56 937	56 949	56 961	56 972	56 984	56 996	57 008	57 019	57 031	57 043
372	57 054	57 066	57 078	57 089	57 101	57 113	57 124	57 136	57 148	57 159
373	57 171	57 183	57 194	57 206	57 217	57 229	57 241	57 252	57 264	57 276
374	57 287	57 299	57 310	57 322	57 334	57 345	57 357	57 368	57 380	57 392
375	57 403	57 415	57 426	57 438	57 449	57 461	57 473	57 484	57 496	57 507
376	57 519	57 530	57 542	57 553	57 565	57 576	57 588	57 600	57 611	57 623
377	57 634	57 646	57 657	57 669	57 680	57 692	57 703	57 715	57 726	57 738
378	57 749	57 761	57 772	57 784	57 795	57 807	57 818	57 830	57 841	57 852
379	57 864	57 875	57 887	57 898	57 910	57 921	57 933	57 944	57 955	57 967
380	57 978	57 990	58 001	58 013	58 024	58 035	58 047	58 058	58 070	58 081
381	58 092	58 104	58 115	58 127	58 138	58 149	58 161	58 172	58 184	58 195
382	58 206	58 218	58 229	58 240	58 252	58 263	58 274	58 286	58 297	58 309
383	58 320	58 331	58 343	58 354	58 365	58 377	58 388	58 399	58 410	58 422
384	58 433	58 444	58 456	58 467	58 478	58 490	58 501	58 512	58 524	58 535
385	58 546	58 557	58 569	58 580	58 591	58 602	58 614	58 625	58 636	58 647
386	58 659	58 670	58 681	58 692	58 704	58 715	58 726	58 737	58 749	58 760
387	58 771	58 782	58 794	58 805	58 816	58 827	58 838	58 850	58 861	58 872
388	58 883	58 894	58 906	58 917	58 928	58 939	58 950	58 961	58 973	58 984
389	58 995	59 006	59 017	59 028	59 040	59 051	59 062	59 073	59 084	59 095
390	59 106	59 118	59 129	59 140	59 151	59 162	59 173	59 184	59 195	59 207
391	59 218	59 229	59 240	59 251	59 262	59 273	59 284	59 295	59 306	59 318
392	59 329	59 340	59 351	59 362	59 373	59 384	59 395	59 406	59 417	59 428
393	59 439	59 450	59 461	59 472	59 483	59 494	59 506	59 517	59 528	59 539
394	59 550	59 561	59 572	59 583	59 594	59 605	59 616	59 627	59 638	59 649
395	59 660	59 671	59 682	59 693	59 704	59 715	59 726	59 737	59 748	59 759
396	59 770	59 780	59 791	59 802	59 813	59 824	59 835	59 846	59 857	59 868
397	59 879	59 890	59 901	59 912	59 923	59 934	59 945	59 956	59 966	59 977
398	59 988	59 999	60 010	60 021	60 032	60 043	60 054	60 065	60 076	60 086
399	60 097	60 108	60 119	60 130	60 141	60 152	60 163	60 173	60 184	60 195
400	60 206	60 217	60 228	60 239	60 249	60 260	60 271	60 282	60 293	60 304

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
400	60 206	60 217	60 228	60 239	60 249	60 260	60 271	60 282	60 293	60 304
401	60 314	60 325	60 336	60 347	60 358	60 369	60 379	60 390	60 401	60 412
402	60 423	60 433	60 444	60 455	60 466	60 477	60 487	60 498	60 509	60 520
403	60 531	60 541	60 552	60 563	60 574	60 584	60 595	60 606	60 617	60 627
404	60 638	60 649	60 660	60 670	60 681	60 692	60 703	60 713	60 724	60 735
405	60 746	60 756	60 767	60 778	60 788	60 799	60 810	60 821	60 831	60 842
406	60 853	60 863	60 874	60 885	60 895	60 906	60 917	60 927	60 938	60 949
407	60 959	60 970	60 981	60 991	61 002	61 013	61 023	61 034	61 045	61 055
408	61 066	61 077	61 087	61 098	61 109	61 119	61 130	61 140	61 151	61 162
409	61 172	61 183	61 194	61 204	61 215	61 225	61 236	61 247	61 257	61 268
410	61 278	61 289	61 300	61 310	61 321	61 331	61 342	61 352	61 363	61 374
411	61 384	61 395	61 405	61 416	61 426	61 437	61 448	61 458	61 469	61 479
412	61 490	61 500	61 511	61 521	61 532	61 542	61 553	61 563	61 574	61 584
413	61 595	61 606	61 616	61 627	61 637	61 648	61 658	61 669	61 679	61 690
414	61 700	61 711	61 721	61 731	61 742	61 752	61 763	61 773	61 784	61 794
415	61 805	61 815	61 826	61 836	61 847	61 857	61 868	61 878	61 888	61 899
416	61 909	61 920	61 930	61 941	61 951	61 962	61 972	61 982	61 993	62 003
417	62 014	62 024	62 034	62 045	62 055	62 066	62 076	62 086	62 097	62 107
418	62 118	62 128	62 138	62 149	62 159	62 170	62 180	62 190	62 201	62 211
419	62 221	62 232	62 242	62 252	62 263	62 273	62 284	62 294	62 304	62 315
420	62 325	62 335	62 346	62 356	62 366	62 377	62 387	62 397	62 408	62 418
421	62 428	62 439	62 449	62 459	62 469	62 480	62 490	62 500	62 511	62 521
422	62 531	62 542	62 552	62 562	62 572	62 583	62 593	62 603	62 613	62 624
423	62 634	62 644	62 655	62 665	62 675	62 685	62 696	62 706	62 716	62 726
424	62 737	62 747	62 757	62 767	62 778	62 788	62 798	62 808	62 818	62 829
425	62 839	62 849	62 859	62 870	62 880	62 890	62 900	62 910	62 921	62 931
426	62 941	62 951	62 961	62 972	62 982	62 992	63 002	63 012	63 022	63 033
427	63 043	63 053	63 063	63 073	63 083	63 094	63 104	63 114	63 124	63 134
428	63 144	63 155	63 165	63 175	63 185	63 195	63 205	63 215	63 225	63 236
429	63 246	63 256	63 266	63 276	63 286	63 296	63 306	63 317	63 327	63 337
430	63 347	63 357	63 367	63 377	63 387	63 397	63 407	63 417	63 428	63 438
431	63 448	63 458	63 468	63 478	63 488	63 498	63 508	63 518	63 528	63 538
432	63 548	63 558	63 568	63 579	63 589	63 599	63 609	63 619	63 629	63 639
433	63 649	63 659	63 669	63 679	63 689	63 699	63 709	63 719	63 729	63 739
434	63 749	63 759	63 769	63 779	63 789	63 799	63 809	63 819	63 829	63 839
435	63 849	63 859	63 869	63 879	63 889	63 899	63 909	63 919	63 929	63 939
436	63 949	63 959	63 969	63 979	63 988	63 998	64 008	64 018	64 028	64 038
437	64 048	64 058	64 068	64 078	64 088	64 098	64 108	64 118	64 128	64 137
438	64 147	64 157	64 167	64 177	64 187	64 197	64 207	64 217	64 227	64 237
439	64 246	64 256	64 266	64 276	64 286	64 296	64 306	64 316	64 326	64 335
440	64 345	64 355	64 365	64 375	64 385	64 395	64 404	64 414	64 424	64 434
441	64 444	64 454	64 464	64 473	64 483	64 493	64 503	64 513	64 523	64 532
442	64 542	64 552	64 562	64 572	64 582	64 591	64 601	64 611	64 621	64 631
443	64 640	64 650	64 660	64 670	64 680	64 689	64 699	64 709	64 719	64 729
444	64 738	64 748	64 758	64 768	64 777	64 787	64 797	64 807	64 816	64 826
445	64 836	64 846	64 856	64 865	64 875	64 885	64 895	64 904	64 914	64 924
446	64 933	64 943	64 953	64 963	64 972	64 982	64 992	65 002	65 011	65 021
447	65 031	65 040	65 050	65 060	65 070	65 079	65 089	65 099	65 108	65 118
448	65 128	65 137	65 147	65 157	65 167	65 176	65 186	65 196	65 205	65 215
449	65 225	65 234	65 244	65 254	65 263	65 273	65 283	65 292	65 302	65 312
450	65 321	65 331	65 341	65 350	65 360	65 369	65 379	65 389	65 398	65 408

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
450	65 321	65 331	65 341	65 350	65 360	65 369	65 379	65 389	65 398	65 408
451	65 418	65 427	65 437	65 447	65 456	65 466	65 475	65 485	65 495	65 504
452	65 514	65 523	65 533	65 543	65 552	65 562	65 571	65 581	65 591	65 600
453	65 610	65 619	65 629	65 639	65 648	65 658	65 667	65 677	65 686	65 696
454	65 706	65 715	65 725	65 734	65 744	65 753	65 763	65 772	65 782	65 792
455	65 801	65 811	65 820	65 830	65 839	65 849	65 858	65 868	65 877	65 887
456	65 896	65 906	65 916	65 925	65 935	65 944	65 954	65 963	65 973	65 982
457	65 992	66 001	66 011	66 020	66 030	66 039	66 049	66 058	66 068	66 077
458	66 087	66 096	66 106	66 115	66 124	66 134	66 143	66 153	66 162	66 172
459	66 181	66 191	66 200	66 210	66 219	66 229	66 238	66 247	66 257	66 266
460	66 276	66 285	66 295	66 304	66 314	66 323	66 332	66 342	66 351	66 361
461	66 370	66 380	66 389	66 398	66 408	66 417	66 427	66 436	66 445	66 455
462	66 464	66 474	66 483	66 492	66 502	66 511	66 521	66 530	66 539	66 549
463	66 558	66 567	66 577	66 586	66 596	66 605	66 614	66 624	66 633	66 642
464	66 652	66 661	66 671	66 680	66 689	66 699	66 708	66 717	66 727	66 736
465	66 745	66 755	66 764	66 773	66 783	66 792	66 801	66 811	66 820	66 829
466	66 839	66 848	66 857	66 867	66 876	66 885	66 894	66 904	66 913	66 922
467	66 932	66 941	66 950	66 960	66 969	66 978	66 987	66 997	67 006	67 015
468	67 025	67 034	67 043	67 052	67 062	67 071	67 080	67 089	67 099	67 108
469	67 117	67 127	67 136	67 145	67 154	67 164	67 173	67 182	67 191	67 201
470	67 210	67 219	67 228	67 237	67 247	67 256	67 265	67 274	67 284	67 293
471	67 302	67 311	67 321	67 330	67 339	67 348	67 357	67 367	67 376	67 385
472	67 394	67 403	67 413	67 422	67 431	67 440	67 449	67 459	67 468	67 477
473	67 486	67 495	67 504	67 514	67 523	67 532	67 541	67 550	67 560	67 569
474	67 578	67 587	67 596	67 605	67 614	67 624	67 633	67 642	67 651	67 660
475	67 669	67 679	67 688	67 697	67 706	67 715	67 724	67 733	67 742	67 752
476	67 761	67 770	67 779	67 788	67 797	67 806	67 815	67 825	67 834	67 843
477	67 852	67 861	67 870	67 879	67 888	67 897	67 906	67 916	67 925	67 934
478	67 943	67 952	67 961	67 970	67 979	67 988	67 997	68 006	68 015	68 024
479	68 034	68 043	68 052	68 061	68 070	68 079	68 088	68 097	68 106	68 115
480	68 124	68 133	68 142	68 151	68 160	68 169	68 178	68 187	68 196	68 205
481	68 215	68 224	68 233	68 242	68 251	68 260	68 269	68 278	68 287	68 296
482	68 305	68 314	68 323	68 332	68 341	68 350	68 359	68 368	68 377	68 386
483	68 395	68 404	68 413	68 422	68 431	68 440	68 449	68 458	68 467	68 476
484	68 485	68 494	68 502	68 511	68 520	68 529	68 538	68 547	68 556	68 565
485	68 574	68 583	68 592	68 601	68 610	68 619	68 628	68 637	68 646	68 655
486	68 664	68 673	68 681	68 690	68 699	68 708	68 717	68 726	68 735	68 744
487	68 753	68 762	68 771	68 780	68 789	68 797	68 806	68 815	68 824	68 833
488	68 842	68 851	68 860	68 869	68 878	68 886	68 895	68 904	68 913	68 922
489	68 931	68 940	68 949	68 958	68 966	68 975	68 984	68 993	69 002	69 011
490	69 020	69 028	69 037	69 046	69 055	69 064	69 073	69 082	69 090	69 099
491	69 108	69 117	69 126	69 135	69 144	69 152	69 161	69 170	69 179	69 188
492	69 197	69 205	69 214	69 223	69 232	69 241	69 249	69 258	69 267	69 276
493	69 285	69 294	69 302	69 311	69 320	69 329	69 338	69 346	69 355	69 364
494	69 373	69 381	69 390	69 399	69 408	69 417	69 425	69 434	69 443	69 452
495	69 461	69 469	69 478	69 487	69 496	69 504	69 513	69 522	69 531	69 539
496	69 548	69 557	69 566	69 574	69 583	69 592	69 601	69 609	69 618	69 627
497	69 636	69 644	69 653	69 662	69 671	69 679	69 688	69 697	69 705	69 714
498	69 723	69 732	69 740	69 749	69 758	69 767	69 775	69 784	69 793	69 801
499	69 810	69 819	69 827	69 836	69 845	69 854	69 862	69 871	69 880	69 888
500	69 897	69 906	69 914	69 923	69 932	69 940	69 949	69 958	69 966	69 975

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
500	69 897	69 906	69 914	69 923	69 932	69 940	69 949	69 958	69 966	69 975
501	69 984	69 992	70 001	70 010	70 018	70 027	70 036	70 044	70 053	70 062
502	70 070	70 079	70 088	70 096	70 105	70 114	70 122	70 131	70 140	70 148
503	70 157	70 165	70 174	70 183	70 191	70 200	70 209	70 217	70 226	70 234
504	70 243	70 252	70 260	70 269	70 278	70 286	70 295	70 303	70 312	70 321
505	70 329	70 338	70 346	70 355	70 364	70 372	70 381	70 389	70 398	70 406
506	70 415	70 424	70 432	70 441	70 449	70 458	70 467	70 475	70 484	70 492
507	70 501	70 509	70 518	70 526	70 535	70 544	70 552	70 561	70 569	70 578
508	70 586	70 595	70 603	70 612	70 621	70 629	70 638	70 646	70 655	70 663
509	70 672	70 680	70 689	70 697	70 706	70 714	70 723	70 731	70 740	70 749
510	70 757	70 766	70 774	70 783	70 791	70 800	70 808	70 817	70 825	70 834
511	70 842	70 851	70 859	70 868	70 876	70 885	70 893	70 902	70 910	70 919
512	70 927	70 935	70 944	70 952	70 961	70 969	70 978	70 986	70 995	71 003
513	71 012	71 020	71 029	71 037	71 046	71 054	71 063	71 071	71 079	71 088
514	71 096	71 105	71 113	71 122	71 130	71 139	71 147	71 155	71 164	71 172
515	71 181	71 189	71 198	71 206	71 214	71 223	71 231	71 240	71 248	71 257
516	71 265	71 273	71 282	71 290	71 299	71 307	71 315	71 324	71 332	71 341
517	71 349	71 357	71 366	71 374	71 383	71 391	71 399	71 408	71 416	71 425
518	71 433	71 441	71 450	71 458	71 466	71 475	71 483	71 492	71 500	71 508
519	71 517	71 525	71 533	71 542	71 550	71 559	71 567	71 575	71 584	71 592
520	71 600	71 609	71 617	71 625	71 634	71 642	71 650	71 659	71 667	71 675
521	71 684	71 692	71 700	71 709	71 717	71 725	71 734	71 742	71 750	71 759
522	71 767	71 775	71 784	71 792	71 800	71 809	71 817	71 825	71 834	71 842
523	71 850	71 858	71 867	71 875	71 883	71 892	71 900	71 908	71 917	71 925
524	71 933	71 941	71 950	71 958	71 966	71 975	71 983	71 991	71 999	72 008
525	72 016	72 024	72 032	72 041	72 049	72 057	72 066	72 074	72 082	72 090
526	72 099	72 107	72 115	72 123	72 132	72 140	72 148	72 156	72 165	72 173
527	72 181	72 189	72 198	72 206	72 214	72 222	72 230	72 239	72 247	72 255
528	72 263	72 272	72 280	72 288	72 296	72 304	72 313	72 321	72 329	72 337
529	72 346	72 354	72 362	72 370	72 378	72 387	72 395	72 403	72 411	72 419
530	72 428	72 436	72 444	72 452	72 460	72 469	72 477	72 485	72 493	72 501
531	72 509	72 518	72 526	72 534	72 542	72 550	72 558	72 567	72 575	72 583
532	72 591	72 599	72 607	72 616	72 624	72 632	72 640	72 648	72 656	72 665
533	72 673	72 681	72 689	72 697	72 705	72 713	72 722	72 730	72 738	72 746
534	72 754	72 762	72 770	72 779	72 787	72 795	72 803	72 811	72 819	72 827
535	72 835	72 843	72 852	72 860	72 868	72 876	72 884	72 892	72 900	72 908
536	72 916	72 925	72 933	72 941	72 949	72 957	72 965	72 973	72 981	72 989
537	72 997	73 006	73 014	73 022	73 030	73 038	73 046	73 054	73 062	73 070
538	73 078	73 086	73 094	73 102	73 111	73 119	73 127	73 135	73 143	73 151
539	73 159	73 167	73 175	73 183	73 191	73 199	73 207	73 215	73 223	73 231
540	73 239	73 247	73 255	73 263	73 272	73 280	73 288	73 296	73 304	73 312
541	73 320	73 328	73 336	73 344	73 352	73 360	73 368	73 376	73 384	73 392
542	73 400	73 408	73 416	73 424	73 432	73 440	73 448	73 456	73 464	73 472
543	73 480	73 488	73 496	73 504	73 512	73 520	73 528	73 536	73 544	73 552
544	73 560	73 568	73 576	73 584	73 592	73 600	73 608	73 616	73 624	73 632
545	73 640	73 648	73 656	73 664	73 672	73 679	73 687	73 695	73 703	73 711
546	73 719	73 727	73 735	73 743	73 751	73 759	73 767	73 775	73 783	73 791
547	73 799	73 807	73 815	73 823	73 830	73 838	73 846	73 854	73 862	73 870
548	73 878	73 886	73 894	73 902	73 910	73 918	73 926	73 933	73 941	73 949
549	73 957	73 965	73 973	73 981	73 989	73 997	74 005	74 013	74 020	74 028
550	74 036	74 044	74 052	74 060	74 068	74 076	74 084	74 092	74 099	74 107

TABLE III. — LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
550	74 036	74 044	74 052	74 060	74 068	74 076	74 084	74 092	74 099	74 107
551	74 115	74 123	74 131	74 139	74 147	74 155	74 162	74 170	74 178	74 186
552	74 194	74 202	74 210	74 218	74 225	74 233	74 241	74 249	74 257	74 265
553	74 273	74 280	74 288	74 296	74 304	74 312	74 320	74 327	74 335	74 343
554	74 351	74 359	74 367	74 374	74 382	74 390	74 398	74 406	74 414	74 421
555	74 429	74 437	74 445	74 453	74 461	74 468	74 476	74 484	74 492	74 500
556	74 507	74 515	74 523	74 531	74 539	74 547	74 554	74 562	74 570	74 578
557	74 586	74 593	74 601	74 609	74 617	74 624	74 632	74 640	74 648	74 656
558	74 663	74 671	74 679	74 687	74 695	74 702	74 710	74 718	74 726	74 733
559	74 741	74 749	74 757	74 764	74 772	74 780	74 788	74 796	74 803	74 811
560	74 819	74 827	74 834	74 842	74 850	74 858	74 865	74 873	74 881	74 889
561	74 896	74 904	74 912	74 920	74 927	74 935	74 943	74 950	74 958	74 966
562	74 974	74 981	74 989	74 997	75 005	75 012	75 020	75 028	75 035	75 043
563	75 051	75 059	75 066	75 074	75 082	75 089	75 097	75 105	75 113	75 120
564	75 128	75 136	75 143	75 151	75 159	75 166	75 174	75 182	75 189	75 197
565	75 205	75 213	75 220	75 228	75 236	75 243	75 251	75 259	75 266	75 274
566	75 282	75 289	75 297	75 305	75 312	75 320	75 328	75 335	75 343	75 351
567	75 358	75 366	75 374	75 381	75 389	75 397	75 404	75 412	75 420	75 427
568	75 435	75 442	75 450	75 458	75 465	75 473	75 481	75 488	75 496	75 504
569	75 511	75 519	75 526	75 534	75 542	75 549	75 557	75 565	75 572	75 580
570	75 587	75 595	75 603	75 610	75 618	75 626	75 633	75 641	75 648	75 656
571	75 664	75 671	75 679	75 686	75 694	75 702	75 709	75 717	75 724	75 732
572	75 740	75 747	75 755	75 762	75 770	75 778	75 785	75 793	75 800	75 808
573	75 815	75 823	75 831	75 838	75 846	75 853	75 861	75 868	75 876	75 884
574	75 891	75 899	75 906	75 914	75 921	75 929	75 937	75 944	75 952	75 959
575	75 967	75 974	75 982	75 989	75 997	76 005	76 012	76 020	76 027	76 035
576	76 042	76 050	76 057	76 065	76 072	76 080	76 087	76 095	76 103	76 110
577	76 118	76 125	76 133	76 140	76 148	76 155	76 163	76 170	76 178	76 185
578	76 193	76 200	76 208	76 215	76 223	76 230	76 238	76 245	76 253	76 260
579	76 268	76 275	76 283	76 290	76 298	76 305	76 313	76 320	76 328	76 335
580	76 343	76 350	76 358	76 365	76 373	76 380	76 388	76 395	76 403	76 410
581	76 418	76 425	76 433	76 440	76 448	76 455	76 462	76 470	76 477	76 485
582	76 492	76 500	76 507	76 515	76 522	76 530	76 537	76 545	76 552	76 559
583	76 567	76 574	76 582	76 589	76 597	76 604	76 612	76 619	76 626	76 634
584	76 641	76 649	76 656	76 664	76 671	76 678	76 686	76 693	76 701	76 708
585	76 716	76 723	76 730	76 738	76 745	76 753	76 760	76 768	76 775	76 782
586	76 790	76 797	76 805	76 812	76 819	76 827	76 834	76 842	76 849	76 856
587	76 864	76 871	76 879	76 886	76 893	76 901	76 908	76 916	76 923	76 930
588	76 938	76 945	76 953	76 960	76 967	76 975	76 982	76 989	76 997	77 004
589	77 012	77 019	77 026	77 034	77 041	77 048	77 056	77 063	77 070	77 078
590	77 085	77 093	77 100	77 107	77 115	77 122	77 129	77 137	77 144	77 151
591	77 159	77 166	77 173	77 181	77 188	77 195	77 203	77 210	77 217	77 225
592	77 232	77 240	77 247	77 254	77 262	77 269	77 276	77 283	77 291	77 298
593	77 305	77 313	77 320	77 327	77 335	77 342	77 349	77 357	77 364	77 371
594	77 379	77 386	77 393	77 401	77 408	77 415	77 422	77 430	77 437	77 444
595	77 452	77 459	77 466	77 474	77 481	77 488	77 495	77 503	77 510	77 517
596	77 525	77 532	77 539	77 546	77 554	77 561	77 568	77 576	77 583	77 590
597	77 597	77 605	77 612	77 619	77 627	77 634	77 641	77 648	77 656	77 663
598	77 670	77 677	77 685	77 692	77 699	77 706	77 714	77 721	77 728	77 735
599	77 743	77 750	77 757	77 764	77 772	77 779	77 786	77 793	77 801	77 808
600	77 815	77 822	77 830	77 837	77 844	77 851	77 859	77 866	77 873	77 880

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
600	77 815	77 822	77 830	77 837	77 844	77 851	77 859	77 866	77 873	77 880
601	77 887	77 895	77 902	77 909	77 916	77 924	77 931	77 938	77 945	77 952
602	77 960	77 967	77 974	77 981	77 988	77 996	78 003	78 010	78 017	78 025
603	78 032	78 039	78 046	78 053	78 061	78 068	78 075	78 082	78 089	78 097
604	78 104	78 111	78 118	78 125	78 132	78 140	78 147	78 154	78 161	78 168
605	78 176	78 183	78 190	78 197	78 204	78 211	78 219	78 226	78 233	78 240
606	78 247	78 254	78 262	78 269	78 276	78 283	78 290	78 297	78 305	78 312
607	78 319	78 326	78 333	78 340	78 347	78 355	78 362	78 369	78 376	78 383
608	78 390	78 398	78 405	78 412	78 419	78 426	78 433	78 440	78 447	78 455
609	78 462	78 469	78 476	78 483	78 490	78 497	78 504	78 512	78 519	78 526
610	78 533	78 540	78 547	78 554	78 561	78 569	78 576	78 583	78 590	78 597
611	78 604	78 611	78 618	78 625	78 633	78 640	78 647	78 654	78 661	78 668
612	78 675	78 682	78 689	78 696	78 704	78 711	78 718	78 725	78 732	78 739
613	78 746	78 753	78 760	78 767	78 774	78 781	78 789	78 796	78 803	78 810
614	78 817	78 824	78 831	78 838	78 845	78 852	78 859	78 866	78 873	78 880
615	78 888	78 895	78 902	78 909	78 916	78 923	78 930	78 937	78 944	78 951
616	78 958	78 965	78 972	78 979	78 986	78 993	79 000	79 007	79 014	79 021
617	79 029	79 036	79 043	79 050	79 057	79 064	79 071	79 078	79 085	79 092
618	79 099	79 106	79 113	79 120	79 127	79 134	79 141	79 148	79 155	79 162
619	79 169	79 176	79 183	79 190	79 197	79 204	79 211	79 218	79 225	79 232
620	79 239	79 246	79 253	79 260	79 267	79 274	79 281	79 288	79 295	79 302
621	79 309	79 316	79 323	79 330	79 337	79 344	79 351	79 358	79 365	79 372
622	79 379	79 386	79 393	79 400	79 407	79 414	79 421	79 428	79 435	79 442
623	79 449	79 456	79 463	79 470	79 477	79 484	79 491	79 498	79 505	79 511
624	79 518	79 525	79 532	79 539	79 546	79 553	79 560	79 567	79 574	79 581
625	79 588	79 595	79 602	79 609	79 616	79 623	79 630	79 637	79 644	79 650
626	79 657	79 664	79 671	79 678	79 685	79 692	79 699	79 706	79 713	79 720
627	79 727	79 734	79 741	79 748	79 754	79 761	79 768	79 775	79 782	79 789
628	79 796	79 803	79 810	79 817	79 824	79 831	79 837	79 844	79 851	79 858
629	79 865	79 872	79 879	79 886	79 893	79 900	79 906	79 913	79 920	79 927
630	79 934	79 941	79 948	79 955	79 962	79 969	79 975	79 982	79 989	79 996
631	80 003	80 010	80 017	80 024	80 030	80 037	80 044	80 051	80 058	80 065
632	80 072	80 079	80 085	80 092	80 099	80 106	80 113	80 120	80 127	80 134
633	80 140	80 147	80 154	80 161	80 168	80 175	80 182	80 188	80 195	80 202
634	80 209	80 216	80 223	80 229	80 236	80 243	80 250	80 257	80 264	80 271
635	80 277	80 284	80 291	80 298	80 305	80 312	80 318	80 325	80 332	80 339
636	80 346	80 353	80 359	80 366	80 373	80 380	80 387	80 393	80 400	80 407
637	80 414	80 421	80 428	80 434	80 441	80 448	80 455	80 462	80 468	80 475
638	80 482	80 489	80 496	80 502	80 509	80 516	80 523	80 530	80 536	80 543
639	80 550	80 557	80 564	80 570	80 577	80 584	80 591	80 598	80 604	80 611
640	80 618	80 625	80 632	80 638	80 645	80 652	80 659	80 665	80 672	80 679
641	80 686	80 693	80 699	80 706	80 713	80 720	80 726	80 733	80 740	80 747
642	80 754	80 760	80 767	80 774	80 781	80 787	80 794	80 801	80 808	80 814
643	80 821	80 828	80 835	80 841	80 848	80 855	80 862	80 868	80 875	80 882
644	80 889	80 895	80 902	80 909	80 916	80 922	80 929	80 936	80 943	80 949
645	80 956	80 963	80 969	80 976	80 983	80 990	80 996	81 003	81 010	81 017
646	81 023	81 030	81 037	81 043	81 050	81 057	81 064	81 070	81 077	81 084
647	81 090	81 097	81 104	81 111	81 117	81 124	81 131	81 137	81 144	81 151
648	81 158	81 164	81 171	81 178	81 184	81 191	81 198	81 204	81 211	81 218
649	81 224	81 231	81 238	81 245	81 251	81 258	81 265	81 271	81 278	81 285
650	81 291	81 298	81 305	81 311	81 318	81 325	81 331	81 338	81 345	81 351

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
650	81 291	81 298	81 305	81 311	81 318	81 325	81 331	81 338	81 345	81 351
651	81 358	81 365	81 371	81 378	81 385	81 391	81 398	81 405	81 411	81 418
652	81 425	81 431	81 438	81 445	81 451	81 458	81 465	81 471	81 478	81 485
653	81 491	81 498	81 505	81 511	81 518	81 525	81 531	81 538	81 544	81 551
654	81 558	81 564	81 571	81 578	81 584	81 591	81 598	81 604	81 611	81 617
655	81 624	81 631	81 637	81 644	81 651	81 657	81 664	81 671	81 677	81 684
656	81 690	81 697	81 704	81 710	81 717	81 723	81 730	81 737	81 743	81 750
657	81 757	81 763	81 770	81 776	81 783	81 790	81 796	81 803	81 809	81 816
658	81 823	81 829	81 836	81 842	81 849	81 856	81 862	81 869	81 875	81 882
659	81 889	81 895	81 902	81 908	81 915	81 921	81 928	81 935	81 941	81 948
660	81 954	81 961	81 968	81 974	81 981	81 987	81 994	82 000	82 007	82 014
661	82 020	82 027	82 033	82 040	82 046	82 053	82 060	82 066	82 073	82 079
662	82 086	82 092	82 099	82 105	82 112	82 119	82 125	82 132	82 138	82 145
663	82 151	82 158	82 164	82 171	82 178	82 184	82 191	82 197	82 204	82 210
664	82 217	82 223	82 230	82 236	82 243	82 249	82 256	82 263	82 269	82 276
665	82 282	82 289	82 295	82 302	82 308	82 315	82 321	82 328	82 334	82 341
666	82 347	82 354	82 360	82 367	82 373	82 380	82 387	82 393	82 400	82 406
667	82 413	82 419	82 426	82 432	82 439	82 445	82 452	82 458	82 465	82 471
668	82 478	82 484	82 491	82 497	82 504	82 510	82 517	82 523	82 530	82 536
669	82 543	82 549	82 556	82 562	82 569	82 575	82 582	82 588	82 595	82 601
670	82 607	82 614	82 620	82 627	82 633	82 640	82 646	82 653	82 659	82 666
671	82 672	82 679	82 685	82 692	82 698	82 705	82 711	82 718	82 724	82 730
672	82 737	82 743	82 750	82 756	82 763	82 769	82 776	82 782	82 789	82 795
673	82 802	82 808	82 814	82 821	82 827	82 834	82 840	82 847	82 853	82 860
674	82 866	82 872	82 879	82 885	82 892	82 898	82 905	82 911	82 918	82 924
675	82 930	82 937	82 943	82 950	82 956	82 963	82 969	82 975	82 982	82 988
676	82 995	83 001	83 008	83 014	83 020	83 027	83 033	83 040	83 046	83 052
677	83 059	83 065	83 072	83 078	83 085	83 091	83 097	83 104	83 110	83 117
678	83 123	83 129	83 136	83 142	83 149	83 155	83 161	83 168	83 174	83 181
679	83 187	83 193	83 200	83 206	83 213	83 219	83 225	83 232	83 238	83 245
680	83 251	83 257	83 264	83 270	83 276	83 283	83 289	83 296	83 302	83 308
681	83 315	83 321	83 327	83 334	83 340	83 347	83 353	83 359	83 366	83 372
682	83 378	83 385	83 391	83 398	83 404	83 410	83 417	83 423	83 429	83 436
683	83 442	83 448	83 455	83 461	83 467	83 474	83 480	83 487	83 493	83 499
684	83 506	83 512	83 518	83 525	83 531	83 537	83 544	83 550	83 556	83 563
685	83 569	83 575	83 582	83 588	83 594	83 601	83 607	83 613	83 620	83 626
686	83 632	83 639	83 645	83 651	83 658	83 664	83 670	83 677	83 683	83 689
687	83 696	83 702	83 708	83 715	83 721	83 727	83 734	83 740	83 746	83 753
688	83 759	83 765	83 771	83 778	83 784	83 790	83 797	83 803	83 809	83 816
689	83 822	83 828	83 835	83 841	83 847	83 853	83 860	83 866	83 872	83 879
690	83 885	83 891	83 897	83 904	83 910	83 916	83 923	83 929	83 935	83 942
691	83 948	83 954	83 960	83 967	83 973	83 979	83 985	83 992	83 998	84 004
692	84 011	84 017	84 023	84 029	84 036	84 042	84 048	84 055	84 061	84 067
693	84 073	84 080	84 086	84 092	84 098	84 105	84 111	84 117	84 123	84 130
694	84 136	84 142	84 148	84 155	84 161	84 167	84 173	84 180	84 186	84 192
695	84 198	84 205	84 211	84 217	84 223	84 230	84 236	84 242	84 248	84 255
696	84 261	84 267	84 273	84 280	84 286	84 292	84 298	84 305	84 311	84 317
697	84 323	84 330	84 336	84 342	84 348	84 354	84 361	84 367	84 373	84 379
698	84 386	84 392	84 398	84 404	84 410	84 417	84 423	84 429	84 435	84 442
699	84 448	84 454	84 460	84 466	84 473	84 479	84 485	84 491	84 497	84 504
700	84 510	84 516	84 522	84 528	84 535	84 541	84 547	84 553	84 559	84 566

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
700	84 510	84 516	84 522	84 528	84 535	84 541	84 547	84 553	84 559	84 566
701	84 572	84 578	84 584	84 590	84 597	84 603	84 609	84 615	84 621	84 628
702	84 634	84 640	84 646	84 652	84 658	84 665	84 671	84 677	84 683	84 689
703	84 696	84 702	84 708	84 714	84 720	84 726	84 733	84 739	84 745	84 751
704	84 757	84 763	84 770	84 776	84 782	84 788	84 794	84 800	84 807	84 813
705	84 819	84 825	84 831	84 837	84 844	84 850	84 856	84 862	84 868	84 874
706	84 880	84 887	84 893	84 899	84 905	84 911	84 917	84 924	84 930	84 936
707	84 942	84 948	84 954	84 960	84 967	84 973	84 979	84 985	84 991	84 997
708	85 003	85 009	85 016	85 022	85 028	85 034	85 040	85 046	85 052	85 058
709	85 065	85 071	85 077	85 083	85 089	85 095	85 101	85 107	85 114	85 120
710	85 126	85 132	85 138	85 144	85 150	85 156	85 163	85 169	85 175	85 181
711	85 187	85 193	85 199	85 205	85 211	85 217	85 224	85 230	85 236	85 242
712	85 248	85 254	85 260	85 266	85 272	85 278	85 285	85 291	85 297	85 303
713	85 309	85 315	85 321	85 327	85 333	85 339	85 345	85 352	85 358	85 364
714	85 370	85 376	85 382	85 388	85 394	85 400	85 406	85 412	85 418	85 425
715	85 431	85 437	85 443	85 449	85 455	85 461	85 467	85 473	85 479	85 485
716	85 491	85 497	85 503	85 509	85 516	85 522	85 528	85 534	85 540	85 546
717	85 552	85 558	85 564	85 570	85 576	85 582	85 588	85 594	85 600	85 606
718	85 612	85 618	85 625	85 631	85 637	85 643	85 649	85 655	85 661	85 667
719	85 673	85 679	85 685	85 691	85 697	85 703	85 709	85 715	85 721	85 727
720	85 733	85 739	85 745	85 751	85 757	85 763	85 769	85 775	85 781	85 788
721	85 794	85 800	85 806	85 812	85 818	85 824	85 830	85 836	85 842	85 848
722	85 854	85 860	85 866	85 872	85 878	85 884	85 890	85 896	85 902	85 908
723	85 914	85 920	85 926	85 932	85 938	85 944	85 950	85 956	85 962	85 968
724	85 974	85 980	85 986	85 992	85 998	86 004	86 010	86 016	86 022	86 028
725	86 034	86 040	86 046	86 052	86 058	86 064	86 070	86 076	86 082	86 088
726	86 094	86 100	86 106	86 112	86 118	86 124	86 130	86 136	86 141	86 147
727	86 153	86 159	86 165	86 171	86 177	86 183	86 189	86 195	86 201	86 207
728	86 213	86 219	86 225	86 231	86 237	86 243	86 249	86 255	86 261	86 267
729	86 273	86 279	86 285	86 291	86 297	86 303	86 308	86 314	86 320	86 326
730	86 332	86 338	86 344	86 350	86 356	86 362	86 368	86 374	86 380	86 386
731	86 392	86 398	86 404	86 410	86 415	86 421	86 427	86 433	86 439	86 445
732	86 451	86 457	86 463	86 469	86 475	86 481	86 487	86 493	86 499	86 504
733	86 510	86 516	86 522	86 528	86 534	86 540	86 546	86 552	86 558	86 564
734	86 570	86 576	86 581	86 587	86 593	86 599	86 605	86 611	86 617	86 623
735	86 629	86 635	86 641	86 646	86 652	86 658	86 664	86 670	86 676	86 682
736	86 688	86 694	86 700	86 705	86 711	86 717	86 723	86 729	86 735	86 741
737	86 747	86 753	86 759	86 764	86 770	86 776	86 782	86 788	86 794	86 800
738	86 806	86 812	86 817	86 823	86 829	86 835	86 841	86 847	86 853	86 859
739	86 864	86 870	86 876	86 882	86 888	86 894	86 900	86 906	86 911	86 917
740	86 923	86 929	86 935	86 941	86 947	86 953	86 958	86 964	86 970	86 976
741	86 982	86 988	86 994	86 999	87 005	87 011	87 017	87 023	87 029	87 035
742	87 040	87 046	87 052	87 058	87 064	87 070	87 075	87 081	87 087	87 093
743	87 099	87 105	87 111	87 116	87 122	87 128	87 134	87 140	87 146	87 151
744	87 157	87 163	87 169	87 175	87 181	87 186	87 192	87 198	87 204	87 210
745	87 216	87 221	87 227	87 233	87 239	87 245	87 251	87 256	87 262	87 268
746	87 274	87 280	87 286	87 291	87 297	87 303	87 309	87 315	87 320	87 326
747	87 332	87 338	87 344	87 349	87 355	87 361	87 367	87 373	87 379	87 384
748	87 390	87 396	87 402	87 408	87 413	87 419	87 425	87 431	87 437	87 442
749	87 448	87 454	87 460	87 466	87 471	87 477	87 483	87 489	87 495	87 500
750	87 506	87 512	87 518	87 523	87 529	87 535	87 541	87 547	87 552	87 558

TABLE III. — LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
750	87 506	87 512	87 518	87 523	87 529	87 535	87 541	87 547	87 552	87 558
751	87 564	87 570	87 576	87 581	87 587	87 593	87 599	87 604	87 610	87 616
752	87 622	87 628	87 633	87 639	87 645	87 651	87 656	87 662	87 668	87 674
753	87 679	87 685	87 691	87 697	87 703	87 708	87 714	87 720	87 726	87 731
754	87 737	87 743	87 749	87 754	87 760	87 766	87 772	87 777	87 783	87 789
755	87 795	87 800	87 806	87 812	87 818	87 823	87 829	87 835	87 841	87 846
756	87 852	87 858	87 864	87 869	87 875	87 881	87 887	87 892	87 898	87 904
757	87 910	87 915	87 921	87 927	87 933	87 938	87 944	87 950	87 955	87 961
758	87 967	87 973	87 978	87 984	87 990	87 996	88 001	88 007	88 013	88 018
759	88 024	88 030	88 036	88 041	88 047	88 053	88 058	88 064	88 070	88 076
760	88 081	88 087	88 093	88 098	88 104	88 110	88 116	88 121	88 127	88 133
761	88 138	88 144	88 150	88 156	88 161	88 167	88 173	88 178	88 184	88 190
762	88 195	88 201	88 207	88 213	88 218	88 224	88 230	88 235	88 241	88 247
763	88 252	88 258	88 264	88 270	88 275	88 281	88 287	88 292	88 298	88 304
764	88 309	88 315	88 321	88 326	88 332	88 338	88 343	88 349	88 355	88 360
765	88 366	88 372	88 377	88 383	88 389	88 395	88 400	88 406	88 412	88 417
766	88 423	88 429	88 434	88 440	88 446	88 451	88 457	88 463	88 468	88 474
767	88 480	88 485	88 491	88 497	88 502	88 508	88 513	88 519	88 525	88 530
768	88 536	88 542	88 547	88 553	88 559	88 564	88 570	88 576	88 581	88 587
769	88 593	88 598	88 604	88 610	88 615	88 621	88 627	88 632	88 638	88 643
770	88 649	88 655	88 660	88 666	88 672	88 677	88 683	88 689	88 694	88 700
771	88 705	88 711	88 717	88 722	88 728	88 734	88 739	88 745	88 750	88 756
772	88 762	88 767	88 773	88 779	88 784	88 790	88 795	88 801	88 807	88 812
773	88 818	88 824	88 829	88 835	88 840	88 846	88 852	88 857	88 863	88 868
774	88 874	88 880	88 885	88 891	88 897	88 902	88 908	88 913	88 919	88 925
775	88 930	88 936	88 941	88 947	88 953	88 958	88 964	88 969	88 975	88 981
776	88 986	88 992	88 997	89 003	89 009	89 014	89 020	89 025	89 031	89 037
777	89 042	89 048	89 053	89 059	89 064	89 070	89 076	89 081	89 087	89 092
778	89 098	89 104	89 109	89 115	89 120	89 126	89 131	89 137	89 143	89 148
779	89 154	89 159	89 165	89 170	89 176	89 182	89 187	89 193	89 198	89 204
780	89 209	89 215	89 221	89 226	89 232	89 237	89 243	89 248	89 254	89 260
781	89 265	89 271	89 276	89 282	89 287	89 293	89 298	89 304	89 310	89 315
782	89 321	89 326	89 332	89 337	89 343	89 348	89 354	89 360	89 365	89 371
783	89 376	89 382	89 387	89 393	89 398	89 404	89 409	89 415	89 421	89 426
784	89 432	89 437	89 443	89 448	89 454	89 459	89 465	89 470	89 476	89 481
785	89 487	89 492	89 498	89 504	89 509	89 515	89 520	89 526	89 531	89 537
786	89 542	89 548	89 553	89 559	89 564	89 570	89 575	89 581	89 586	89 592
787	89 597	89 603	89 609	89 614	89 620	89 625	89 631	89 636	89 642	89 647
788	89 653	89 658	89 664	89 669	89 675	89 680	89 686	89 691	89 697	89 702
789	89 708	89 713	89 719	89 724	89 730	89 735	89 741	89 746	89 752	89 757
790	89 763	89 768	89 774	89 779	89 785	89 790	89 796	89 801	89 807	89 812
791	89 818	89 823	89 829	89 834	89 840	89 845	89 851	89 856	89 862	89 867
792	89 873	89 878	89 883	89 889	89 894	89 900	89 905	89 911	89 916	89 922
793	89 927	89 933	89 938	89 944	89 949	89 955	89 960	89 966	89 971	89 977
794	89 982	89 988	89 993	89 998	90 004	90 009	90 015	90 020	90 026	90 031
795	90 037	90 042	90 048	90 053	90 059	90 064	90 069	90 075	90 080	90 086
796	90 091	90 097	90 102	90 108	90 113	90 119	90 124	90 129	90 135	90 140
797	90 146	90 151	90 157	90 162	90 168	90 173	90 179	90 184	90 189	90 195
798	90 200	90 206	90 211	90 217	90 222	90 227	90 233	90 238	90 244	90 249
799	90 255	90 260	90 266	90 271	90 276	90 282	90 287	90 293	90 298	90 304
800	90 309	90 314	90 320	90 325	90 331	90 336	90 342	90 347	90 352	90 358

TABLE III. — LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
800	90 309	90 314	90 320	90 325	90 331	90 336	90 342	90 347	90 352	90 358
801	90 363	90 369	90 374	90 380	90 385	90 390	90 396	90 401	90 407	90 412
802	90 417	90 423	90 428	90 434	90 439	90 445	90 450	90 455	90 461	90 466
803	90 472	90 477	90 482	90 488	90 493	90 499	90 504	90 509	90 515	90 520
804	90 526	90 531	90 536	90 542	90 547	90 553	90 558	90 563	90 569	90 574
805	90 580	90 585	90 590	90 596	90 601	90 607	90 612	90 617	90 623	90 628
806	90 634	90 639	90 644	90 650	90 655	90 660	90 666	90 671	90 677	90 682
807	90 687	90 693	90 698	90 703	90 709	90 714	90 720	90 725	90 730	90 736
808	90 741	90 747	90 752	90 757	90 763	90 768	90 773	90 779	90 784	90 789
809	90 795	90 800	90 806	90 811	90 816	90 822	90 827	90 832	90 838	90 843
810	90 849	90 854	90 859	90 865	90 870	90 875	90 881	90 886	90 891	90 897
811	90 902	90 907	90 913	90 918	90 924	90 929	90 934	90 940	90 945	90 950
812	90 956	90 961	90 966	90 972	90 977	90 982	90 988	90 993	90 998	91 004
813	91 009	91 014	91 020	91 025	91 030	91 036	91 041	91 046	91 052	91 057
814	91 062	91 068	91 073	91 078	91 084	91 089	91 094	91 100	91 105	91 110
815	91 116	91 121	91 126	91 132	91 137	91 142	91 148	91 153	91 158	91 164
816	91 169	91 174	91 180	91 185	91 190	91 196	91 201	91 206	91 212	91 217
817	91 222	91 228	91 233	91 238	91 243	91 249	91 254	91 259	91 265	91 270
818	91 275	91 281	91 286	91 291	91 297	91 302	91 307	91 312	91 318	91 323
819	91 328	91 334	91 339	91 344	91 350	91 355	91 360	91 365	91 371	91 376
820	91 381	91 387	91 392	91 397	91 403	91 408	91 413	91 418	91 424	91 429
821	91 434	91 440	91 445	91 450	91 455	91 461	91 466	91 471	91 477	91 482
822	91 487	91 492	91 498	91 503	91 508	91 514	91 519	91 524	91 529	91 535
823	91 540	91 545	91 551	91 556	91 561	91 566	91 572	91 577	91 582	91 587
824	91 593	91 598	91 603	91 609	91 614	91 619	91 624	91 630	91 635	91 640
825	91 645	91 651	91 656	91 661	91 666	91 672	91 677	91 682	91 687	91 693
826	91 698	91 703	91 709	91 714	91 719	91 724	91 730	91 735	91 740	91 745
827	91 751	91 756	91 761	91 766	91 772	91 777	91 782	91 787	91 793	91 798
828	91 803	91 808	91 814	91 819	91 824	91 829	91 834	91 840	91 845	91 850
829	91 855	91 861	91 866	91 871	91 876	91 882	91 887	91 892	91 897	91 903
830	91 908	91 913	91 918	91 924	91 929	91 934	91 939	91 944	91 950	91 955
831	91 960	91 965	91 971	91 976	91 981	91 986	91 991	91 997	92 002	92 007
832	92 012	92 018	92 023	92 028	92 033	92 038	92 044	92 049	92 054	92 059
833	92 065	92 070	92 075	92 080	92 085	92 091	92 096	92 101	92 106	92 111
834	92 117	92 122	92 127	92 132	92 137	92 143	92 148	92 153	92 158	92 163
835	92 169	92 174	92 179	92 184	92 189	92 195	92 200	92 205	92 210	92 215
836	92 221	92 226	92 231	92 236	92 241	92 247	92 252	92 257	92 262	92 267
837	92 273	92 278	92 283	92 288	92 293	92 298	92 304	92 309	92 314	92 319
838	92 324	92 330	92 335	92 340	92 345	92 350	92 355	92 361	92 366	92 371
839	92 376	92 381	92 387	92 392	92 397	92 402	92 407	92 412	92 418	92 423
840	92 428	92 433	92 438	92 443	92 449	92 454	92 459	92 464	92 469	92 474
841	92 480	92 485	92 490	92 495	92 500	92 505	92 511	92 516	92 521	92 526
842	92 531	92 536	92 542	92 547	92 552	92 557	92 562	92 567	92 572	92 578
843	92 583	92 588	92 593	92 598	92 603	92 609	92 614	92 619	92 624	92 629
844	92 634	92 639	92 645	92 650	92 655	92 660	92 665	92 670	92 675	92 681
845	92 686	92 691	92 696	92 701	92 706	92 711	92 716	92 722	92 727	92 732
846	92 737	92 742	92 747	92 752	92 758	92 763	92 768	92 773	92 778	92 783
847	92 788	92 793	92 799	92 804	92 809	92 814	92 819	92 824	92 829	92 834
848	92 840	92 845	92 850	92 855	92 860	92 865	92 870	92 875	92 881	92 886
849	92 891	92 896	92 901	92 906	92 911	92 916	92 921	92 927	92 932	92 937
850	92 942	92 947	92 952	92 957	92 962	92 967	92 973	92 978	92 983	92 988

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
850	92 942	92 947	92 952	92 957	92 962	92 967	92 973	92 978	92 983	92 988
851	92 993	92 998	93 003	93 008	93 013	93 018	93 024	93 029	93 034	93 039
852	93 044	93 049	93 054	93 059	93 064	93 069	93 075	93 080	93 085	93 090
853	93 095	93 100	93 105	93 110	93 115	93 120	93 125	93 131	93 136	93 141
854	93 146	93 151	93 156	93 161	93 166	93 171	93 176	93 181	93 186	93 192
855	93 197	93 202	93 207	93 212	93 217	93 222	93 227	93 232	93 237	93 242
856	93 247	93 252	93 258	93 263	93 268	93 273	93 278	93 283	93 288	93 293
857	93 298	93 303	93 308	93 313	93 318	93 323	93 328	93 334	93 339	93 344
858	93 349	93 354	93 359	93 364	93 369	93 374	93 379	93 384	93 389	93 394
859	93 399	93 404	93 409	93 414	93 420	93 425	93 430	93 435	93 440	93 445
860	93 450	93 455	93 460	93 465	93 470	93 475	93 480	93 485	93 490	93 495
861	93 500	93 505	93 510	93 515	93 520	93 526	93 531	93 536	93 541	93 546
862	93 551	93 556	93 561	93 566	93 571	93 576	93 581	93 586	93 591	93 596
863	93 601	93 606	93 611	93 616	93 621	93 626	93 631	93 636	93 641	93 646
864	93 651	93 656	93 661	93 666	93 671	93 676	93 682	93 687	93 692	93 697
865	93 702	93 707	93 712	93 717	93 722	93 727	93 732	93 737	93 742	93 747
866	93 752	93 757	93 762	93 767	93 772	93 777	93 782	93 787	93 792	93 797
867	93 802	93 807	93 812	93 817	93 822	93 827	93 832	93 837	93 842	93 847
868	93 852	93 857	93 862	93 867	93 872	93 877	93 882	93 887	93 892	93 897
869	93 902	93 907	93 912	93 917	93 922	93 927	93 932	93 937	93 942	93 947
870	93 952	93 957	93 962	93 967	93 972	93 977	93 982	93 987	93 992	93 997
871	94 002	94 007	94 012	94 017	94 022	94 027	94 032	94 037	94 042	94 047
872	94 052	94 057	94 062	94 067	94 072	94 077	94 082	94 086	94 091	94 096
873	94 101	94 106	94 111	94 116	94 121	94 126	94 131	94 136	94 141	94 146
874	94 151	94 156	94 161	94 166	94 171	94 176	94 181	94 186	94 191	94 196
875	94 201	94 206	94 211	94 216	94 221	94 226	94 231	94 236	94 240	94 245
876	94 250	94 255	94 260	94 265	94 270	94 275	94 280	94 285	94 290	94 295
877	94 300	94 305	94 310	94 315	94 320	94 325	94 330	94 335	94 340	94 345
878	94 349	94 354	94 359	94 364	94 369	94 374	94 379	94 384	94 389	94 394
879	94 399	94 404	94 409	94 414	94 419	94 424	94 429	94 433	94 438	94 443
880	94 448	94 453	94 458	94 463	94 468	94 473	94 478	94 483	94 488	94 493
881	94 498	94 503	94 507	94 512	94 517	94 522	94 527	94 532	94 537	94 542
882	94 547	94 552	94 557	94 562	94 567	94 571	94 576	94 581	94 586	94 591
883	94 596	94 601	94 606	94 611	94 616	94 621	94 626	94 630	94 635	94 640
884	94 645	94 650	94 655	94 660	94 665	94 670	94 675	94 680	94 685	94 689
885	94 694	94 699	94 704	94 709	94 714	94 719	94 724	94 729	94 734	94 738
886	94 743	94 748	94 753	94 758	94 763	94 768	94 773	94 778	94 783	94 787
887	94 792	94 797	94 802	94 807	94 812	94 817	94 822	94 827	94 832	94 836
888	94 841	94 846	94 851	94 856	94 861	94 866	94 871	94 876	94 880	94 885
889	94 890	94 895	94 900	94 905	94 910	94 915	94 919	94 924	94 929	94 934
890	94 939	94 944	94 949	94 954	94 959	94 963	94 968	94 973	94 978	94 983
891	94 988	94 993	94 998	95 002	95 007	95 012	95 017	95 022	95 027	95 032
892	95 036	95 041	95 046	95 051	95 056	95 061	95 066	95 071	95 075	95 080
893	95 085	95 090	95 095	95 100	95 105	95 109	95 114	95 119	95 124	95 129
894	95 134	95 139	95 143	95 148	95 153	95 158	95 163	95 168	95 173	95 177
895	95 182	95 187	95 192	95 197	95 202	95 207	95 211	95 216	95 221	95 226
896	95 231	95 236	95 240	95 245	95 250	95 255	95 260	95 265	95 270	95 274
897	95 279	95 284	95 289	95 294	95 299	95 303	95 308	95 313	95 318	95 323
898	95 328	95 332	95 337	95 342	95 347	95 352	95 357	95 361	95 366	95 371
899	95 376	95 381	95 386	95 390	95 395	95 400	95 405	95 410	95 415	95 419
900	95 424	95 429	95 434	95 439	95 444	95 448	95 453	95 458	95 463	95 468

TABLE III. — LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
900	95 424	95 429	95 434	95 439	95 444	95 448	95 453	95 458	95 463	95 468
901	95 472	95 477	95 482	95 487	95 492	95 497	95 501	95 506	95 511	95 516
902	95 521	95 525	95 530	95 535	95 540	95 545	95 550	95 554	95 559	95 564
903	95 569	95 574	95 578	95 583	95 588	95 593	95 598	95 602	95 607	95 612
904	95 617	95 622	95 626	95 631	95 636	95 641	95 646	95 650	95 655	95 660
905	95 665	95 670	95 674	95 679	95 684	95 689	95 694	95 698	95 703	95 708
906	95 713	95 718	95 722	95 727	95 732	95 737	95 742	95 746	95 751	95 756
907	95 761	95 766	95 770	95 775	95 780	95 785	95 789	95 794	95 799	95 804
908	95 809	95 813	95 818	95 823	95 828	95 832	95 837	95 842	95 847	95 852
909	95 856	95 861	95 866	95 871	95 875	95 880	95 885	95 890	95 895	95 899
910	95 904	95 909	95 914	95 918	95 923	95 928	95 933	95 938	95 942	95 947
911	95 952	95 957	95 961	95 966	95 971	95 976	95 980	95 985	95 990	95 995
912	95 999	96 004	96 009	96 014	96 019	96 023	96 028	96 033	96 038	96 042
913	96 047	96 052	96 057	96 061	96 066	96 071	96 076	96 080	96 085	96 090
914	96 095	96 099	96 104	96 109	96 114	96 118	96 123	96 128	96 133	96 137
915	96 142	96 147	96 152	96 156	96 161	96 166	96 171	96 175	96 180	96 185
916	96 190	96 194	96 199	96 204	96 209	96 213	96 218	96 223	96 227	96 232
917	96 237	96 242	96 246	96 251	96 256	96 261	96 265	96 270	96 275	96 280
918	96 284	96 289	96 294	96 298	96 303	96 308	96 313	96 317	96 322	96 327
919	96 332	96 336	96 341	96 346	96 350	96 355	96 360	96 365	96 369	96 374
920	96 379	96 384	96 388	96 393	96 398	96 402	96 407	96 412	96 417	96 421
921	96 426	96 431	96 435	96 440	96 445	96 450	96 454	96 459	96 464	96 468
922	96 473	96 478	96 483	96 487	96 492	96 497	96 501	96 506	96 511	96 515
923	96 520	96 525	96 530	96 534	96 539	96 544	96 548	96 553	96 558	96 562
924	96 567	96 572	96 577	96 581	96 586	96 591	96 595	96 600	96 605	96 609
925	96 614	96 619	96 624	96 628	96 633	96 638	96 642	96 647	96 652	96 656
926	96 661	96 666	96 670	96 675	96 680	96 685	96 689	96 694	96 699	96 703
927	96 708	96 713	96 717	96 722	96 727	96 731	96 736	96 741	96 745	96 750
928	96 755	96 759	96 764	96 769	96 774	96 778	96 783	96 788	96 792	96 797
929	96 802	96 806	96 811	96 816	96 820	96 825	96 830	96 834	96 839	96 844
930	96 848	96 853	96 858	96 862	96 867	96 872	96 876	96 881	96 886	96 890
931	96 895	96 900	96 904	96 909	96 914	96 918	96 923	96 928	96 932	96 937
932	96 942	96 946	96 951	96 956	96 960	96 965	96 970	96 974	96 979	96 984
933	96 988	96 993	96 997	97 002	97 007	97 011	97 016	97 021	97 025	97 030
934	97 035	97 039	97 044	97 049	97 053	97 058	97 063	97 067	97 072	97 077
935	97 081	97 086	97 090	97 095	97 100	97 104	97 109	97 114	97 118	97 123
936	97 128	97 132	97 137	97 142	97 146	97 151	97 155	97 160	97 165	97 169
937	97 174	97 179	97 183	97 188	97 192	97 197	97 202	97 206	97 211	97 216
938	97 220	97 225	97 230	97 234	97 239	97 243	97 248	97 253	97 257	97 262
939	97 267	97 271	97 276	97 280	97 285	97 290	97 294	97 299	97 304	97 308
940	97 313	97 317	97 322	97 327	97 331	97 336	97 340	97 345	97 350	97 354
941	97 359	97 364	97 368	97 373	97 377	97 382	97 387	97 391	97 396	97 400
942	97 405	97 410	97 414	97 419	97 424	97 428	97 433	97 437	97 442	97 447
943	97 451	97 456	97 460	97 465	97 470	97 474	97 479	97 483	97 488	97 493
944	97 497	97 502	97 506	97 511	97 516	97 520	97 525	97 529	97 534	97 539
945	97 543	97 548	97 552	97 557	97 562	97 566	97 571	97 575	97 580	97 585
946	97 589	97 594	97 598	97 603	97 607	97 612	97 617	97 621	97 626	97 630
947	97 635	97 640	97 644	97 649	97 653	97 658	97 663	97 667	97 672	97 676
948	97 681	97 685	97 690	97 695	97 699	97 704	97 708	97 713	97 717	97 722
949	97 727	97 731	97 736	97 740	97 745	97 749	97 754	97 759	97 763	97 768
950	97 772	97 777	97 782	97 786	97 791	97 795	97 800	97 804	97 809	97 813

TABLE III.—LOGARITHMS OF NUMBERS

No.	0	1	2	3	4	5	6	7	8	9
950	97 772	97 777	97 782	97 786	97 791	97 795	97 800	97 804	97 809	97 813
951	97 818	97 823	97 827	97 832	97 836	97 841	97 845	97 850	97 855	97 859
952	97 864	97 868	97 873	97 877	97 882	97 886	97 891	97 896	97 900	97 905
953	97 909	97 914	97 918	97 923	97 928	97 932	97 937	97 941	97 946	97 950
954	97 955	97 959	97 964	97 968	97 973	97 978	97 982	97 987	97 991	97 996
955	98 000	98 005	98 009	98 014	98 019	98 023	98 028	98 032	98 037	98 041
956	98 046	98 050	98 055	98 059	98 064	98 068	98 073	98 078	98 082	98 087
957	98 091	98 096	98 100	98 105	98 109	98 114	98 118	98 123	98 127	98 132
958	98 137	98 141	98 146	98 150	98 155	98 159	98 164	98 168	98 173	98 177
959	98 182	98 186	98 191	98 195	98 200	98 204	98 209	98 214	98 218	98 223
960	98 227	98 232	98 236	98 241	98 245	98 250	98 254	98 259	98 263	98 268
961	98 272	98 277	98 281	98 286	98 290	98 295	98 299	98 304	98 308	98 313
962	98 318	98 322	98 327	98 331	98 336	98 340	98 345	98 349	98 354	98 358
963	98 363	98 367	98 372	98 376	98 381	98 385	98 390	98 394	98 399	98 403
964	98 408	98 412	98 417	98 421	98 426	98 430	98 435	98 439	98 444	98 448
965	98 453	98 457	98 462	98 466	98 471	98 475	98 480	98 484	98 489	98 493
966	98 498	98 502	98 507	98 511	98 516	98 520	98 525	98 529	98 534	98 538
967	98 543	98 547	98 552	98 556	98 561	98 565	98 570	98 574	98 579	98 583
968	98 588	98 592	98 597	98 601	98 605	98 610	98 614	98 619	98 623	98 628
969	98 632	98 637	98 641	98 646	98 650	98 655	98 659	98 664	98 668	98 673
970	98 677	98 682	98 686	98 691	98 695	98 700	98 704	98 709	98 713	98 717
971	98 722	98 726	98 731	98 735	98 740	98 744	98 749	98 753	98 758	98 762
972	98 767	98 771	98 776	98 780	98 784	98 789	98 793	98 798	98 802	98 807
973	98 811	98 816	98 820	98 825	98 829	98 834	98 838	98 843	98 847	98 851
974	98 856	98 860	98 865	98 869	98 874	98 878	98 883	98 887	98 892	98 896
975	98 900	98 905	98 909	98 914	98 918	98 923	98 927	98 932	98 936	98 941
976	98 945	98 949	98 954	98 958	98 963	98 967	98 972	98 976	98 981	98 985
977	98 989	98 994	98 998	99 003	99 007	99 012	99 016	99 021	99 025	99 029
978	99 034	99 038	99 043	99 047	99 052	99 056	99 061	99 065	99 069	99 074
979	99 078	99 083	99 087	99 092	99 096	99 100	99 105	99 109	99 114	99 118
980	99 123	99 127	99 131	99 136	99 140	99 145	99 149	99 154	99 158	99 162
981	99 167	99 171	99 176	99 180	99 185	99 189	99 193	99 198	99 202	99 207
982	99 211	99 216	99 220	99 224	99 229	99 233	99 238	99 242	99 247	99 251
983	99 255	99 260	99 264	99 269	99 273	99 277	99 282	99 286	99 291	99 295
984	99 300	99 304	99 308	99 313	99 317	99 322	99 326	99 330	99 335	99 339
985	99 344	99 348	99 352	99 357	99 361	99 366	99 370	99 374	99 379	99 383
986	99 388	99 392	99 396	99 401	99 405	99 410	99 414	99 419	99 423	99 427
987	99 432	99 436	99 441	99 445	99 449	99 454	99 458	99 463	99 467	99 471
988	99 476	99 480	99 484	99 489	99 493	99 498	99 502	99 506	99 511	99 515
989	99 520	99 524	99 528	99 533	99 537	99 542	99 546	99 550	99 555	99 559
990	99 564	99 568	99 572	99 577	99 581	99 585	99 590	99 594	99 599	99 603
991	99 607	99 612	99 616	99 621	99 625	99 629	99 634	99 638	99 642	99 647
992	99 651	99 656	99 660	99 664	99 669	99 673	99 677	99 682	99 686	99 691
993	99 695	99 699	99 704	99 708	99 712	99 717	99 721	99 726	99 730	99 734
994	99 739	99 743	99 747	99 752	99 756	99 760	99 765	99 769	99 774	99 778
995	99 782	99 787	99 791	99 795	99 800	99 804	99 808	99 813	99 817	99 822
996	99 826	99 830	99 835	99 839	99 843	99 848	99 852	99 856	99 861	99 865
997	99 870	99 874	99 878	99 883	99 887	99 891	99 896	99 900	99 904	99 909
998	99 913	99 917	99 922	99 926	99 930	99 935	99 939	99 944	99 948	99 952
999	99 957	99 961	99 965	99 970	99 974	99 978	99 983	99 987	99 991	99 996
1000	00 000	00 004	00 009	00 013	00 017	00 022	00 026	00 030	00 035	00 039

TABLE IV.—LOGARITHMIC SINES, COSINES,

	1°				2°				
'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	8.24 186	8.24 192	1.75 808	9.99 993	8.54 282	8.54 308	1.45 692	9.99 974	60
1	8.24 903	8.24 910	1.75 090	9.99 993	8.54 642	8.54 669	1.45 331	9.99 973	59
2	8.25 609	8.25 616	1.74 384	9.99 993	8.54 999	8.55 027	1.44 973	9.99 973	58
3	8.26 304	8.26 312	1.73 688	9.99 993	8.55 354	8.55 382	1.44 618	9.99 972	57
4	8.26 988	8.26 996	1.73 004	9.99 992	8.55 705	8.55 734	1.44 266	9.99 972	56
5	8.27 661	8.27 669	1.72 331	9.99 992	8.56 054	8.56 083	1.43 917	9.99 971	55
6	8.28 324	8.28 332	1.71 668	9.99 992	8.56 400	8.56 429	1.43 571	9.99 971	54
7	8.28 977	8.28 986	1.71 014	9.99 992	8.56 743	8.56 773	1.43 227	9.99 970	53
8	8.29 621	8.29 629	1.70 371	9.99 992	8.57 084	8.57 114	1.42 886	9.99 970	52
9	8.30 255	8.30 263	1.69 737	9.99 991	8.57 421	8.57 452	1.42 548	9.99 969	51
10	8.30 879	8.30 888	1.69 112	9.99 991	8.57 757	8.57 788	1.42 212	9.99 969	50
11	8.31 495	8.31 505	1.68 495	9.99 991	8.58 089	8.58 121	1.41 879	9.99 968	49
12	8.32 103	8.32 112	1.67 888	9.99 990	8.58 419	8.58 451	1.41 549	9.99 968	48
13	8.32 702	8.32 711	1.67 289	9.99 990	8.58 747	8.58 779	1.41 221	9.99 967	47
14	8.33 292	8.33 302	1.66 698	9.99 990	8.59 072	8.59 105	1.40 895	9.99 967	46
15	8.33 875	8.33 886	1.66 114	9.99 990	8.59 395	8.59 428	1.40 572	9.99 967	45
16	8.34 450	8.34 461	1.65 539	9.99 989	8.59 715	8.59 749	1.40 251	9.99 966	44
17	8.35 018	8.35 029	1.64 971	9.99 989	8.60 033	8.60 068	1.39 932	9.99 966	43
18	8.35 578	8.35 590	1.64 410	9.99 989	8.60 349	8.60 384	1.39 616	9.99 965	42
19	8.36 131	8.36 143	1.63 857	9.99 989	8.60 662	8.60 698	1.39 302	9.99 964	41
20	8.36 678	8.36 689	1.63 311	9.99 988	8.60 973	8.61 009	1.38 991	9.99 964	40
21	8.37 217	8.37 229	1.62 771	9.99 988	8.61 282	8.61 319	1.38 681	9.99 963	39
22	8.37 750	8.37 762	1.62 238	9.99 988	8.61 589	8.61 626	1.38 374	9.99 963	38
23	8.38 276	8.38 289	1.61 711	9.99 987	8.61 894	8.61 931	1.38 069	9.99 962	37
24	8.38 796	8.38 809	1.61 191	9.99 987	8.62 196	8.62 234	1.37 766	9.99 962	36
25	8.39 310	8.39 323	1.60 677	9.99 987	8.62 497	8.62 535	1.37 465	9.99 961	35
26	8.39 818	8.39 832	1.60 168	9.99 986	8.62 795	8.62 834	1.37 166	9.99 961	34
27	8.40 320	8.40 334	1.59 666	9.99 986	8.63 091	8.63 131	1.36 869	9.99 960	33
28	8.40 816	8.40 830	1.59 170	9.99 986	8.63 385	8.63 426	1.36 574	9.99 960	32
29	8.41 307	8.41 321	1.58 679	9.99 985	8.63 678	8.63 718	1.36 282	9.99 959	31
30	8.41 792	8.41 807	1.58 193	9.99 985	8.63 968	8.64 009	1.35 991	9.99 959	30
31	8.42 272	8.42 287	1.57 713	9.99 985	8.64 256	8.64 298	1.35 702	9.99 958	29
32	8.42 746	8.42 762	1.57 238	9.99 984	8.64 543	8.64 585	1.35 415	9.99 958	28
33	8.43 216	8.43 232	1.56 768	9.99 984	8.64 827	8.64 870	1.35 130	9.99 957	27
34	8.43 680	8.43 696	1.56 304	9.99 984	8.65 110	8.65 154	1.34 846	9.99 956	26
35	8.44 139	8.44 156	1.55 844	9.99 983	8.65 391	8.65 435	1.34 565	9.99 956	25
36	8.44 594	8.44 611	1.55 389	9.99 983	8.65 670	8.65 715	1.34 285	9.99 955	24
37	8.45 044	8.45 061	1.54 939	9.99 983	8.65 947	8.65 993	1.34 007	9.99 955	23
38	8.45 489	8.45 507	1.54 493	9.99 982	8.66 223	8.66 269	1.33 731	9.99 954	22
39	8.45 930	8.45 948	1.54 052	9.99 982	8.66 497	8.66 543	1.33 457	9.99 954	21
40	8.46 366	8.46 385	1.53 615	9.99 982	8.66 769	8.66 816	1.33 184	9.99 953	20
41	8.46 799	8.46 817	1.53 183	9.99 981	8.67 039	8.67 087	1.32 913	9.99 952	19
42	8.47 226	8.47 245	1.52 755	9.99 981	8.67 308	8.67 356	1.32 644	9.99 952	18
43	8.47 650	8.47 669	1.52 331	9.99 981	8.67 575	8.67 624	1.32 376	9.99 951	17
44	8.48 069	8.48 089	1.51 911	9.99 980	8.67 841	8.67 890	1.32 110	9.99 951	16
45	8.48 485	8.48 505	1.51 495	9.99 980	8.68 104	8.68 154	1.31 846	9.99 950	15
46	8.48 896	8.48 917	1.51 083	9.99 979	8.68 367	8.68 417	1.31 583	9.99 949	14
47	8.49 304	8.49 325	1.50 675	9.99 979	8.68 627	8.68 678	1.31 322	9.99 949	13
48	8.49 708	8.49 729	1.50 271	9.99 979	8.68 886	8.68 938	1.31 062	9.99 948	12
49	8.50 108	8.50 130	1.49 870	9.99 978	8.69 144	8.69 196	1.30 804	9.99 948	11
50	8.50 504	8.50 527	1.49 473	9.99 978	8.69 400	8.69 453	1.30 547	9.99 947	10
51	8.50 897	8.50 920	1.49 080	9.99 977	8.69 654	8.69 708	1.30 292	9.99 946	9
52	8.51 287	8.51 310	1.48 690	9.99 977	8.69 907	8.69 962	1.30 038	9.99 946	8
53	8.51 673	8.51 696	1.48 304	9.99 977	8.70 159	8.70 214	1.29 786	9.99 945	7
54	8.52 055	8.52 079	1.47 921	9.99 976	8.70 409	8.70 465	1.29 535	9.99 944	6
55	8.52 434	8.52 459	1.47 541	9.99 976	8.70 658	8.70 714	1.29 286	9.99 944	5
56	8.52 810	8.52 835	1.47 165	9.99 975	8.70 905	8.70 962	1.29 038	9.99 943	4
57	8.53 183	8.53 208	1.46 792	9.99 975	8.71 151	8.71 208	1.28 792	9.99 942	3
58	8.53 552	8.53 578	1.46 422	9.99 974	8.71 395	8.71 453	1.28 547	9.99 942	2
59	8.53 919	8.53 945	1.46 055	9.99 974	8.71 638	8.71 697	1.28 303	9.99 941	1
60	8.54 282	8.54 308	1.45 692	9.99 974	8.71 880	8.71 940	1.28 060	9.99 940	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

88°

87°

TANGENTS AND COTANGENTS

3°

4°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	8.71 880	8.71 940	1.28 060	9.99 940	8.84 358	8.84 464	1.15 536	9.99 894	60
1	8.72 120	8.72 181	1.27 819	9.99 940	8.84 539	8.84 646	1.15 354	9.99 893	59
2	8.72 359	8.72 420	1.27 580	9.99 939	8.84 718	8.84 826	1.15 174	9.99 892	58
3	8.72 597	8.72 659	1.27 341	9.99 938	8.84 897	8.85 006	1.14 994	9.99 891	57
4	8.72 834	8.72 896	1.27 104	9.99 938	8.85 075	8.85 185	1.14 815	9.99 891	56
5	8.73 069	8.73 132	1.26 868	9.99 937	8.85 252	8.85 363	1.14 637	9.99 890	55
6	8.73 303	8.73 366	1.26 634	9.99 936	8.85 429	8.85 540	1.14 460	9.99 889	54
7	8.73 535	8.73 600	1.26 400	9.99 936	8.85 605	8.85 717	1.14 283	9.99 888	53
8	8.73 767	8.73 832	1.26 168	9.99 935	8.85 780	8.85 893	1.14 107	9.99 887	52
9	8.73 997	8.74 063	1.25 937	9.99 934	8.85 955	8.86 069	1.13 931	9.99 886	51
10	8.74 226	8.74 292	1.25 708	9.99 934	8.86 128	8.86 243	1.13 757	9.99 885	50
11	8.74 454	8.74 521	1.25 479	9.99 933	8.86 301	8.86 417	1.13 583	9.99 884	49
12	8.74 680	8.74 748	1.25 252	9.99 932	8.86 474	8.86 591	1.13 409	9.99 883	48
13	8.74 906	8.74 974	1.25 026	9.99 932	8.86 645	8.86 763	1.13 237	9.99 882	47
14	8.75 130	8.75 199	1.24 801	9.99 931	8.86 816	8.86 935	1.13 065	9.99 881	46
15	8.75 353	8.75 423	1.24 577	9.99 930	8.86 987	8.87 106	1.12 894	9.99 880	45
16	8.75 575	8.75 645	1.24 355	9.99 929	8.87 156	8.87 277	1.12 723	9.99 879	44
17	8.75 795	8.75 867	1.24 133	9.99 929	8.87 325	8.87 447	1.12 553	9.99 879	43
18	8.76 015	8.76 087	1.23 913	9.99 928	8.87 494	8.87 616	1.12 384	9.99 878	42
19	8.76 234	8.76 306	1.23 694	9.99 927	8.87 661	8.87 785	1.12 215	9.99 877	41
20	8.76 451	8.76 525	1.23 475	9.99 926	8.87 829	8.87 953	1.12 047	9.99 876	40
21	8.76 667	8.76 742	1.23 258	9.99 926	8.87 995	8.88 120	1.11 880	9.99 875	39
22	8.76 883	8.76 958	1.23 042	9.99 925	8.88 161	8.88 287	1.11 713	9.99 874	38
23	8.77 097	8.77 173	1.22 827	9.99 924	8.88 326	8.88 453	1.11 547	9.99 873	37
24	8.77 310	8.77 387	1.22 613	9.99 923	8.88 490	8.88 618	1.11 382	9.99 872	36
25	8.77 522	8.77 600	1.22 400	9.99 923	8.88 654	8.88 783	1.11 217	9.99 871	35
26	8.77 733	8.77 811	1.22 189	9.99 922	8.88 817	8.88 948	1.11 052	9.99 870	34
27	8.77 943	8.78 022	1.21 978	9.99 921	8.88 980	8.89 111	1.10 889	9.99 869	33
28	8.78 152	8.78 232	1.21 768	9.99 920	8.89 142	8.89 274	1.10 726	9.99 868	32
29	8.78 360	8.78 441	1.21 559	9.99 920	8.89 304	8.89 437	1.10 563	9.99 867	31
30	8.78 568	8.78 649	1.21 351	9.99 919	8.89 464	8.89 598	1.10 402	9.99 866	30
31	8.78 774	8.78 855	1.21 145	9.99 918	8.89 625	8.89 760	1.10 240	9.99 865	29
32	8.78 979	8.79 061	1.20 939	9.99 917	8.89 784	8.89 920	1.10 080	9.99 864	28
33	8.79 183	8.79 266	1.20 734	9.99 917	8.89 943	8.90 080	1.09 920	9.99 863	27
34	8.79 386	8.79 470	1.20 530	9.99 916	8.90 102	8.90 240	1.09 760	9.99 862	26
35	8.79 588	8.79 673	1.20 327	9.99 915	8.90 260	8.90 399	1.09 601	9.99 861	25
36	8.79 789	8.79 875	1.20 125	9.99 914	8.90 417	8.90 557	1.09 443	9.99 860	24
37	8.79 990	8.80 076	1.19 924	9.99 913	8.90 574	8.90 715	1.09 285	9.99 859	23
38	8.80 189	8.80 277	1.19 723	9.99 913	8.90 730	8.90 872	1.09 128	9.99 858	22
39	8.80 388	8.80 476	1.19 524	9.99 912	8.90 885	8.91 029	1.08 971	9.99 857	21
40	8.80 585	8.80 674	1.19 326	9.99 911	8.91 040	8.91 185	1.08 815	9.99 856	20
41	8.80 782	8.80 872	1.19 128	9.99 910	8.91 195	8.91 340	1.08 660	9.99 855	19
42	8.80 978	8.81 068	1.18 932	9.99 909	8.91 349	8.91 495	1.08 505	9.99 854	18
43	8.81 173	8.81 264	1.18 736	9.99 909	8.91 502	8.91 650	1.08 350	9.99 853	17
44	8.81 367	8.81 459	1.18 541	9.99 908	8.91 655	8.91 803	1.08 197	9.99 852	16
45	8.81 560	8.81 653	1.18 347	9.99 907	8.91 807	8.91 957	1.08 043	9.99 851	15
46	8.81 752	8.81 846	1.18 154	9.99 906	8.91 959	8.92 110	1.07 890	9.99 850	14
47	8.81 944	8.82 038	1.17 962	9.99 905	8.92 110	8.92 262	1.07 738	6.99 848	13
48	8.82 134	8.82 230	1.17 770	9.99 904	8.92 261	8.92 414	1.07 586	9.99 847	12
49	8.82 324	8.82 420	1.17 580	9.99 904	8.92 411	8.92 565	1.07 435	9.99 846	11
50	8.82 513	8.82 610	1.17 390	9.99 903	8.92 561	8.92 716	1.07 284	9.99 845	10
51	8.82 701	8.82 799	1.17 201	9.99 902	8.92 710	8.92 866	1.07 134	9.99 844	9
52	8.82 888	8.82 987	1.17 013	9.99 901	8.92 859	8.93 016	1.06 984	9.99 843	8
53	8.83 075	8.83 175	1.16 825	9.99 900	8.93 007	8.93 165	1.06 835	9.99 842	7
54	8.83 261	8.83 361	1.16 639	9.99 899	8.93 154	8.93 313	1.06 687	9.99 841	6
55	8.83 446	8.83 547	1.16 453	9.99 898	8.93 301	8.93 462	1.06 538	9.99 840	5
56	8.83 630	8.83 732	1.16 268	9.99 898	8.93 448	8.93 609	1.06 391	9.99 839	4
57	8.83 813	8.83 916	1.16 084	9.99 897	8.93 594	8.93 756	1.06 244	9.99 838	3
58	8.83 996	8.84 100	1.15 900	9.99 896	8.93 740	8.93 903	1.06 097	9.99 837	2
59	8.84 177	8.84 282	1.15 718	9.99 895	8.93 885	8.94 049	1.05 951	9.99 836	1
60	8.84 358	8.84 464	1.15 536	9.99 894	8.94 030	8.94 195	1.05 805	9.99 834	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

86°

85°

TABLE IV.—LOGARITHMIC SINES, COSINES,

	5°				6°				
'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	8.94 030	8.94 195	1.05 805	9.99 834	9.01 923	9.02 162	0.97 838	9.99 761	60
1	8.94 174	8.94 340	1.05 660	9.99 833	9.02 043	9.02 283	0.97 717	9.99 760	59
2	8.94 317	8.94 485	1.05 515	9.99 832	9.02 163	9.02 404	0.97 596	9.99 759	58
3	8.94 461	8.94 630	1.05 370	9.99 831	9.02 283	9.02 525	0.97 475	9.99 757	57
4	8.94 603	8.94 773	1.05 227	9.99 830	9.02 402	9.02 645	0.97 355	9.99 756	56
5	8.94 746	8.94 917	1.05 083	9.99 829	9.02 520	9.02 766	0.97 234	9.99 755	55
6	8.94 887	8.95 060	1.04 940	9.99 828	9.02 639	9.02 885	0.97 115	9.99 753	54
7	8.95 029	8.95 202	1.04 798	9.99 827	9.02 757	9.03 005	0.96 995	9.99 752	53
8	8.95 170	8.95 344	1.04 656	9.99 825	9.02 874	9.03 124	0.96 876	9.99 751	52
9	8.95 310	8.95 486	1.04 514	9.99 824	9.02 992	9.03 242	0.96 758	9.99 749	51
10	8.95 450	8.95 627	1.04 373	9.99 823	9.03 109	9.03 361	0.96 639	9.99 748	50
11	8.95 589	8.95 767	1.04 233	9.99 822	9.03 226	9.03 479	0.96 521	9.99 747	49
12	8.95 728	8.95 908	1.04 092	9.99 821	9.03 342	9.03 597	0.96 403	9.99 745	48
13	8.95 867	8.96 047	1.03 953	9.99 820	9.03 458	9.03 714	0.96 286	9.99 744	47
14	8.96 005	8.96 187	1.03 813	9.99 819	9.03 574	9.03 832	0.96 168	9.99 742	46
15	8.96 143	8.96 325	1.03 675	9.99 817	9.03 690	9.03 948	0.96 052	9.99 741	45
16	8.96 280	8.96 464	1.03 536	9.99 816	9.03 805	9.04 065	0.95 935	9.99 740	44
17	8.96 417	8.96 602	1.03 398	9.99 815	9.03 920	9.04 181	0.95 819	9.99 738	43
18	8.96 553	8.96 739	1.03 261	9.99 814	9.04 034	9.04 297	0.95 703	9.99 737	42
19	8.96 689	8.96 877	1.03 123	9.99 813	9.04 149	9.04 413	0.95 587	9.99 736	41
20	8.96 825	8.97 013	1.02 987	9.99 812	9.04 262	9.04 528	0.95 472	9.99 734	40
21	8.96 960	8.97 150	1.02 850	9.99 810	9.04 376	9.04 643	0.95 357	9.99 733	39
22	8.97 095	8.97 285	1.02 715	9.99 809	9.04 490	9.04 758	0.95 242	9.99 731	38
23	8.97 229	8.97 421	1.02 579	9.99 808	9.04 603	9.04 873	0.95 127	9.99 730	37
24	8.97 363	8.97 556	1.02 444	9.99 807	9.04 715	9.04 987	0.95 013	9.99 728	36
25	8.97 496	8.97 691	1.02 309	9.99 806	9.04 828	9.05 101	0.94 899	9.99 727	35
26	8.97 629	8.97 825	1.02 175	9.99 804	9.04 940	9.05 214	0.94 786	9.99 726	34
27	8.97 762	8.97 959	1.02 041	9.99 803	9.05 052	9.05 328	0.94 672	9.99 724	33
28	8.97 894	8.98 092	1.01 908	9.99 802	9.05 164	9.05 441	0.94 559	9.99 723	32
29	8.98 026	8.98 225	1.01 775	9.99 801	9.05 275	9.05 553	0.94 447	9.99 721	31
30	8.98 157	8.98 358	1.01 642	9.99 800	9.05 386	9.05 666	0.94 334	9.99 720	30
31	8.98 288	8.98 490	1.01 510	9.99 798	9.05 497	9.05 778	0.94 222	9.99 718	29
32	8.98 419	8.98 622	1.01 378	9.99 797	9.05 607	9.05 890	0.94 110	9.99 717	28
33	8.98 549	8.98 753	1.01 247	9.99 796	9.05 717	9.06 002	0.93 998	9.99 716	27
34	8.98 679	8.98 884	1.01 116	9.99 795	9.05 827	9.06 113	0.93 887	9.99 714	26
35	8.98 808	8.99 015	1.00 985	9.99 793	9.05 937	9.06 224	0.93 776	9.99 713	25
36	8.98 937	8.99 145	1.00 855	9.99 792	9.06 046	9.06 335	0.93 665	9.99 711	24
37	8.99 066	8.99 275	1.00 725	9.99 791	9.06 155	9.06 445	0.93 555	9.99 710	23
38	8.99 194	8.99 405	1.00 595	9.99 790	9.06 264	9.06 556	0.93 444	9.99 708	22
39	8.99 322	8.99 534	1.00 466	9.99 788	9.06 372	9.06 666	0.93 334	9.99 707	21
40	8.99 450	8.99 662	1.00 338	9.99 787	9.06 481	9.06 775	0.93 225	9.99 705	20
41	8.99 577	8.99 791	1.00 209	9.99 786	9.06 589	9.06 885	0.93 115	9.99 704	19
42	8.99 704	8.99 919	1.00 081	9.99 785	9.06 696	9.06 994	0.93 006	9.99 702	18
43	8.99 830	9.00 046	0.99 954	9.99 783	9.06 804	9.07 103	0.92 897	9.99 701	17
44	8.99 956	9.00 174	0.99 826	9.99 782	9.06 911	9.07 211	0.92 789	9.99 699	16
45	9.00 082	9.00 301	0.99 699	9.99 781	9.07 018	9.07 320	0.92 680	9.99 698	15
46	9.00 207	9.00 427	0.99 573	9.99 780	9.07 124	9.07 428	0.92 572	9.99 696	14
47	9.00 332	9.00 553	0.99 447	9.99 778	9.07 231	9.07 536	0.92 464	9.99 695	13
48	9.00 456	9.00 679	0.99 321	9.99 777	9.07 337	9.07 643	0.92 357	9.99 693	12
49	9.00 581	9.00 805	0.99 195	9.99 776	9.07 442	9.07 751	0.92 249	9.99 692	11
50	9.00 704	9.00 930	0.99 070	9.99 775	9.07 548	9.07 858	0.92 142	9.99 690	10
51	9.00 828	9.01 055	0.98 945	9.99 773	9.07 653	9.07 964	0.92 036	9.99 689	9
52	9.00 951	9.01 179	0.98 821	9.99 772	9.07 758	9.08 071	0.91 929	9.99 687	8
53	9.01 074	9.01 303	0.98 697	9.99 771	9.07 863	9.08 177	0.91 823	9.99 686	7
54	9.01 196	9.01 427	0.98 573	9.99 769	9.07 968	9.08 283	0.91 717	9.99 684	6
55	9.01 318	9.01 550	0.98 450	9.99 768	9.08 072	9.08 389	0.91 611	9.99 683	5
56	9.01 440	9.01 673	0.98 327	9.99 767	9.08 176	9.08 495	0.91 505	9.99 681	4
57	9.01 561	9.01 796	0.98 204	9.99 765	9.08 280	9.08 600	0.91 400	9.99 680	3
58	9.01 682	9.01 918	0.98 082	9.99 764	9.08 383	9.08 705	0.91 295	9.99 678	2
59	9.01 803	9.02 040	0.97 960	9.99 763	9.08 486	9.08 810	0.91 190	9.99 677	1
60	9.01 923	9.02 162	0.97 838	9.99 761	9.08 589	9.08 914	0.91 086	9.99 675	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

84°

83°

TANGENTS AND COTANGENTS

7°

8°

<i>r</i>	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	<i>r</i>
0	9.08 589	9.08 914	0.91 086	9.99 675	9.14 356	9.14 780	0.85 220	9.99 575	60
1	9.08 692	9.09 019	0.90 981	9.99 674	9.14 445	9.14 872	0.85 128	9.99 574	59
2	9.08 795	9.09 123	0.90 877	9.99 672	9.14 535	9.14 963	0.85 037	9.99 572	58
3	9.08 897	9.09 227	0.90 773	9.99 670	9.14 624	9.15 054	0.84 946	9.99 570	57
4	9.08 999	9.09 330	0.90 670	9.99 669	9.14 714	9.15 145	0.84 855	9.99 568	56
5	9.09 101	9.09 434	0.90 566	9.99 667	9.14 803	9.15 236	0.84 764	9.99 566	55
6	9.09 202	9.09 537	0.90 463	9.99 666	9.14 891	9.15 327	0.84 673	9.99 565	54
7	9.09 304	9.09 640	0.90 360	9.99 664	9.14 980	9.15 417	0.84 583	9.99 563	53
8	9.09 405	9.09 742	0.90 258	9.99 663	9.15 069	9.15 508	0.84 492	9.99 561	52
9	9.09 506	9.09 845	0.90 155	9.99 661	9.15 157	9.15 598	0.84 402	9.99 559	51
10	9.09 606	9.09 947	0.90 053	9.99 659	9.15 245	9.15 688	0.84 312	9.99 557	50
11	9.09 707	9.10 049	0.89 951	9.99 658	9.15 333	9.15 777	0.84 223	9.99 556	49
12	9.09 807	9.10 150	0.89 850	9.99 656	9.15 421	9.15 867	0.84 133	9.99 554	48
13	9.09 907	9.10 252	0.89 748	9.99 655	9.15 508	9.15 956	0.84 044	9.99 552	47
14	9.10 006	9.10 353	0.89 647	9.99 653	9.15 596	9.16 046	0.83 954	9.99 550	46
15	9.10 106	9.10 454	0.89 546	9.99 651	9.15 683	9.16 135	0.83 865	9.99 548	45
16	9.10 205	9.10 555	0.89 445	9.99 650	9.15 770	9.16 224	0.83 776	9.99 546	44
17	9.10 304	9.10 656	0.89 344	9.99 648	9.15 857	9.16 312	0.83 688	9.99 545	43
18	9.10 402	9.10 756	0.89 244	9.99 647	9.15 944	9.16 401	0.83 599	9.99 543	42
19	9.10 501	9.10 856	0.89 144	9.99 645	9.16 030	9.16 489	0.83 511	9.99 541	41
20	9.10 599	9.10 956	0.89 044	9.99 643	9.16 116	9.16 577	0.83 423	9.99 539	40
21	9.10 697	9.11 056	0.88 944	9.99 642	9.16 203	9.16 665	0.83 335	9.99 537	39
22	9.10 795	9.11 155	0.88 845	9.99 640	9.16 289	9.16 753	0.83 247	9.99 535	38
23	9.10 893	9.11 254	0.88 746	9.99 638	9.16 374	9.16 841	0.83 159	9.99 533	37
24	9.10 990	9.11 353	0.88 647	9.99 637	9.16 460	9.16 928	0.83 072	9.99 532	36
25	9.11 087	9.11 452	0.88 548	9.99 635	9.16 545	9.17 016	0.82 984	9.99 530	35
26	9.11 184	9.11 551	0.88 449	9.99 633	9.16 631	9.17 103	0.82 897	9.99 528	34
27	9.11 281	9.11 649	0.88 351	9.99 632	9.16 716	9.17 190	0.82 810	9.99 526	33
28	9.11 377	9.11 747	0.88 253	9.99 630	9.16 801	9.17 277	0.82 723	9.99 524	32
29	9.11 474	9.11 845	0.88 155	9.99 629	9.16 886	9.17 363	0.82 637	9.99 522	31
30	9.11 570	9.11 943	0.88 057	9.99 627	9.16 970	9.17 450	0.82 550	9.99 520	30
31	9.11 666	9.12 040	0.87 960	9.99 625	9.17 055	9.17 536	0.82 464	9.99 518	29
32	9.11 761	9.12 138	0.87 862	9.99 624	9.17 139	9.17 622	0.82 378	9.99 517	28
33	9.11 857	9.12 235	0.87 765	9.99 622	9.17 223	9.17 708	0.82 292	9.99 515	27
34	9.11 952	9.12 332	0.87 668	9.99 620	9.17 307	9.17 794	0.82 206	9.99 513	26
35	9.12 047	9.12 428	0.87 572	9.99 618	9.17 391	9.17 880	0.82 120	9.99 511	25
36	9.12 142	9.12 525	0.87 475	9.99 617	9.17 474	9.17 965	0.82 035	9.99 509	24
37	9.12 236	9.12 621	0.87 379	9.99 615	9.17 558	9.18 051	0.81 949	9.99 507	23
38	9.12 331	9.12 717	0.87 283	9.99 613	9.17 641	9.18 136	0.81 864	9.99 505	22
39	9.12 425	9.12 813	0.87 187	9.99 612	9.17 724	9.18 221	0.81 779	9.99 503	21
40	9.12 519	9.12 909	0.87 091	9.99 610	9.17 807	9.18 306	0.81 694	9.99 501	20
41	9.12 612	9.13 004	0.86 996	9.99 608	9.17 890	9.18 391	0.81 609	9.99 499	19
42	9.12 706	9.13 099	0.86 901	9.99 607	9.17 973	9.18 475	0.81 525	9.99 497	18
43	9.12 799	9.13 194	0.86 806	9.99 605	9.18 055	9.18 560	0.81 440	9.99 495	17
44	9.12 892	9.13 289	0.86 711	9.99 603	9.18 137	9.18 644	0.81 356	9.99 494	16
45	9.12 985	9.13 384	0.86 616	9.99 601	9.18 220	9.18 728	0.81 272	9.99 492	15
46	9.13 078	9.13 478	0.86 522	9.99 600	9.18 302	9.18 812	0.81 188	9.99 490	14
47	9.13 171	9.13 573	0.86 427	9.99 598	9.18 383	9.18 896	0.81 104	9.99 488	13
48	9.13 263	9.13 667	0.86 333	9.99 596	9.18 465	9.18 979	0.81 021	9.99 486	12
49	9.13 355	9.13 761	0.86 239	9.99 595	9.18 547	9.19 063	0.80 937	9.99 484	11
50	9.13 447	9.13 854	0.86 146	9.99 593	9.18 628	9.19 146	0.80 854	9.99 482	10
51	9.13 539	9.13 948	0.86 052	9.99 591	9.18 709	9.19 229	0.80 771	9.99 480	9
52	9.13 630	9.14 041	0.85 959	9.99 589	9.18 790	9.19 312	0.80 688	9.99 478	8
53	9.13 722	9.14 134	0.85 866	9.99 588	9.18 871	9.19 395	0.80 605	9.99 476	7
54	9.13 813	9.14 227	0.85 773	9.99 586	9.18 952	9.19 478	0.80 522	9.99 474	6
55	9.13 904	9.14 320	0.85 680	9.99 584	9.19 033	9.19 561	0.80 439	9.99 472	5
56	9.13 994	9.14 412	0.85 588	9.99 582	9.19 113	9.19 643	0.80 357	9.99 470	4
57	9.14 085	9.14 504	0.85 496	9.99 581	9.19 193	9.19 725	0.80 275	9.99 468	3
58	9.14 175	9.14 597	0.85 403	9.99 579	9.19 273	9.19 807	0.80 193	9.99 466	2
59	9.14 266	9.14 688	0.85 312	9.99 577	9.19 353	9.19 889	0.80 111	9.99 464	1
60	9.14 356	9.14 780	0.85 220	9.99 575	9.19 433	9.19 971	0.80 029	9.99 462	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	<i>r</i>

82°

81°

TABLE IV.—LOGARITHMIC SINES, COSINES,

	9°				10°				
'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	
0	9.19 433	9.19 971	0.80 029	9.99 462	9.23 967	9.24 632	0.75 368	9.99 335	60
1	9.19 513	9.20 053	0.79 947	9.99 460	9.24 039	9.24 706	0.75 294	9.99 333	59
2	9.19 592	9.20 134	0.79 866	9.99 458	9.24 110	9.24 779	0.75 221	9.99 331	58
3	9.19 672	9.20 216	0.79 784	9.99 456	9.24 181	9.24 853	0.75 147	9.99 328	57
4	9.19 751	9.20 297	0.79 703	9.99 454	9.24 253	9.24 926	0.75 074	9.99 326	56
5	9.19 830	9.20 378	0.79 622	9.99 452	9.24 323	9.25 000	0.75 000	9.99 324	55
6	9.19 909	9.20 459	0.79 541	9.99 450	9.24 395	9.25 073	0.74 927	9.99 322	54
7	9.19 988	9.20 540	0.79 460	9.99 448	9.24 466	9.25 146	0.74 854	9.99 319	53
8	9.20 067	9.20 621	0.79 379	9.99 446	9.24 536	9.25 219	0.74 781	9.99 317	52
9	9.20 145	9.20 701	0.79 299	9.99 444	9.24 607	9.25 292	0.74 708	9.99 315	51
10	9.20 223	9.20 782	0.79 218	9.99 442	9.24 677	9.25 365	0.74 635	9.99 313	50
11	9.20 302	9.20 862	0.79 138	9.99 440	9.24 748	9.25 437	0.74 563	9.99 310	49
12	9.20 380	9.20 942	0.79 058	9.99 438	9.24 818	9.25 510	0.74 490	9.99 308	48
13	9.20 458	9.21 022	0.78 978	9.99 436	9.24 888	9.25 582	0.74 418	9.99 306	47
14	9.20 535	9.21 102	0.78 898	9.99 434	9.24 958	9.25 655	0.74 345	9.99 304	46
15	9.20 613	9.21 182	0.78 818	9.99 432	9.25 028	9.25 727	0.74 273	9.99 301	45
16	9.20 691	9.21 261	0.78 739	9.99 429	9.25 098	9.25 799	0.74 201	9.99 299	44
17	9.20 768	9.21 341	0.78 659	9.99 427	9.25 168	9.25 871	0.74 129	9.99 297	43
18	9.20 845	9.21 420	0.78 580	9.99 425	9.25 237	9.25 943	0.74 057	9.99 294	42
19	9.20 922	9.21 499	0.78 501	9.99 423	9.25 307	9.26 015	0.73 985	9.99 292	41
20	9.20 999	9.21 578	0.78 422	9.99 421	9.25 376	9.26 086	0.73 914	9.99 290	40
21	9.21 076	9.21 657	0.78 343	9.99 419	9.25 445	9.26 158	0.73 842	9.99 288	39
22	9.21 153	9.21 736	0.78 264	9.99 417	9.25 514	9.26 229	0.73 771	9.99 285	38
23	9.21 229	9.21 814	0.78 186	9.99 415	9.25 583	9.26 301	0.73 699	9.99 283	37
24	9.21 306	9.21 893	0.78 107	9.99 413	9.25 652	9.26 372	0.73 628	9.99 281	36
25	9.21 382	9.21 971	0.78 029	9.99 411	9.25 721	9.26 443	0.73 557	9.99 278	35
26	9.21 458	9.22 049	0.77 951	9.99 409	9.25 790	9.26 514	0.73 486	9.99 276	34
27	9.21 534	9.22 127	0.77 873	9.99 407	9.25 858	9.26 585	0.73 415	9.99 274	33
28	9.21 610	9.22 205	0.77 795	9.99 404	9.25 927	9.26 655	0.73 345	9.99 271	32
29	9.21 685	9.22 283	0.77 717	9.99 402	9.25 995	9.26 726	0.73 274	9.99 269	31
30	9.21 761	9.22 361	0.77 639	9.99 400	9.26 063	9.26 797	0.73 203	9.99 267	30
31	9.21 836	9.22 438	0.77 562	9.99 398	9.26 131	9.26 867	0.73 133	9.99 264	29
32	9.21 912	9.22 516	0.77 484	9.99 396	9.26 199	9.26 937	0.73 063	9.99 262	28
33	9.21 987	9.22 593	0.77 407	9.99 394	9.26 267	9.27 008	0.72 992	9.99 260	27
34	9.22 062	9.22 670	0.77 330	9.99 392	9.26 335	9.27 078	0.72 922	9.99 257	26
35	9.22 137	9.22 747	0.77 253	9.99 390	9.26 403	9.27 148	0.72 852	9.99 255	25
36	9.22 211	9.22 824	0.77 176	9.99 388	9.26 470	9.27 218	0.72 782	9.99 252	24
37	9.22 286	9.22 901	0.77 099	9.99 385	9.26 538	9.27 288	0.72 712	9.99 250	23
38	9.22 361	9.22 977	0.77 023	9.99 383	9.26 605	9.27 357	0.72 643	9.99 248	22
39	9.22 435	9.23 054	0.76 946	9.99 381	9.26 672	9.27 427	0.72 573	9.99 245	21
40	9.22 509	9.23 130	0.76 870	9.99 379	9.26 739	9.27 496	0.72 504	9.99 243	20
41	9.22 583	9.23 206	0.76 794	9.99 377	9.26 806	9.27 566	0.72 434	9.99 241	19
42	9.22 657	9.23 283	0.76 717	9.99 375	9.26 873	9.27 635	0.72 365	9.99 238	18
43	9.22 731	9.23 359	0.76 641	9.99 372	9.26 940	9.27 704	0.72 296	9.99 236	17
44	9.22 805	9.23 435	0.76 565	9.99 370	9.27 007	9.27 773	0.72 227	9.99 233	16
45	9.22 878	9.23 510	0.76 490	9.99 368	9.27 073	9.27 842	0.72 158	9.99 231	15
46	9.22 952	9.23 586	0.76 414	9.99 366	9.27 140	9.27 911	0.72 089	9.99 229	14
47	9.23 025	9.23 661	0.76 339	9.99 364	9.27 206	9.27 980	0.72 020	9.99 226	13
48	9.23 098	9.23 737	0.76 263	9.99 362	9.27 273	9.28 049	0.71 951	9.99 224	12
49	9.23 171	9.23 812	0.76 188	9.99 359	9.27 339	9.28 117	0.71 883	9.99 221	11
50	9.23 244	9.23 887	0.76 113	9.99 357	9.27 405	9.28 186	0.71 814	9.99 219	10
51	9.23 317	9.23 962	0.76 038	9.99 355	9.27 471	9.28 254	0.71 746	9.99 217	9
52	9.23 390	9.24 037	0.75 963	9.99 353	9.27 537	9.28 323	0.71 677	9.99 214	8
53	9.23 462	9.24 112	0.75 888	9.99 351	9.27 602	9.28 391	0.71 609	9.99 212	7
54	9.23 535	9.24 186	0.75 814	9.99 348	9.27 668	9.28 459	0.71 541	9.99 209	6
55	9.23 607	9.24 261	0.75 739	9.99 346	9.27 734	9.28 527	0.71 473	9.99 207	5
56	9.23 679	9.24 335	0.75 665	9.99 344	9.27 799	9.28 595	0.71 405	9.99 204	4
57	9.23 752	9.24 410	0.75 590	9.99 342	9.27 864	9.28 662	0.71 338	9.99 202	3
58	9.23 823	9.24 484	0.75 516	9.99 340	9.27 930	9.28 730	0.71 270	9.99 200	2
59	9.23 895	9.24 558	0.75 442	9.99 337	9.27 995	9.28 798	0.71 202	9.99 197	1
60	9.23 967	9.24 632	0.75 368	9.99 335	9.28 060	9.28 865	0.71 135	9.99 195	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

80°

79°

TANGENTS AND COTANGENTS

11°

12°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.28 060	9.28 865	0.71 135	9.99 195	9.31 788	9.32 747	0.67 253	9.99 040	60
1	9.28 125	9.28 933	0.71 067	9.99 192	9.31 847	9.32 810	0.67 190	9.99 038	59
2	9.28 190	9.29 000	0.71 000	9.99 190	9.31 907	9.32 872	0.67 128	9.99 035	58
3	9.28 254	9.29 067	0.70 933	9.99 187	9.31 966	9.32 933	0.67 067	9.99 032	57
4	9.28 319	9.29 134	0.70 866	9.99 185	9.32 025	9.32 995	0.67 005	9.99 030	56
5	9.28 384	9.29 201	0.70 799	9.99 182	9.32 084	9.33 057	0.66 943	9.99 027	55
6	9.28 448	9.29 268	0.70 732	9.99 180	9.32 143	9.33 119	0.66 881	9.99 024	54
7	9.28 512	9.29 335	0.70 665	9.99 177	9.32 202	9.33 180	0.66 820	9.99 022	53
8	9.28 577	9.29 402	0.70 598	9.99 175	9.32 261	9.33 242	0.66 758	9.99 019	52
9	9.28 641	9.29 468	0.70 532	9.99 172	9.32 319	9.33 303	0.66 697	9.99 016	51
10	9.28 705	9.29 535	0.70 465	9.99 170	9.32 378	9.33 365	0.66 635	9.99 013	50
11	9.28 769	9.29 601	0.70 399	9.99 167	9.32 437	9.33 426	0.66 574	9.99 011	49
12	9.28 833	9.29 668	0.70 332	9.99 165	9.32 495	9.33 487	0.66 513	9.99 008	48
13	9.28 896	9.29 734	0.70 266	9.99 162	9.32 553	9.33 548	0.66 452	9.99 005	47
14	9.28 960	9.29 800	0.70 200	9.99 160	9.32 612	9.33 609	0.66 391	9.99 002	46
15	9.29 024	9.29 866	0.70 134	9.99 157	9.32 670	9.33 670	0.66 330	9.99 000	45
16	9.29 087	9.29 932	0.70 068	9.99 155	9.32 728	9.33 731	0.66 269	9.98 997	44
17	9.29 150	9.29 998	0.70 002	9.99 152	9.32 786	9.33 792	0.66 208	9.98 994	43
18	9.29 214	9.30 064	0.69 936	9.99 150	9.32 844	9.33 853	0.66 147	9.98 991	42
19	9.29 277	9.30 130	0.69 870	9.99 147	9.32 902	9.33 913	0.66 087	9.98 989	41
20	9.29 340	9.30 195	0.69 805	9.99 145	9.32 960	9.33 974	0.66 026	9.98 986	40
21	9.29 403	9.30 261	0.69 739	9.99 142	9.33 018	9.34 034	0.65 966	9.98 983	39
22	9.29 466	9.30 326	0.69 674	9.99 140	9.33 075	9.34 095	0.65 905	9.98 980	38
23	9.29 529	9.30 391	0.69 609	9.99 137	9.33 133	9.34 155	0.65 845	9.98 978	37
24	9.29 591	9.30 457	0.69 543	9.99 135	9.33 190	9.34 215	0.65 785	9.98 975	36
25	9.29 654	9.30 522	0.69 478	9.99 132	9.33 248	9.34 276	0.65 724	9.98 972	35
26	9.29 716	9.30 587	0.69 413	9.99 130	9.33 305	9.34 336	0.65 664	9.98 969	34
27	9.29 779	9.30 652	0.69 348	9.99 127	9.33 362	9.34 396	0.65 604	9.98 967	33
28	9.29 841	9.30 717	0.69 283	9.99 124	9.33 420	9.34 456	0.65 544	9.98 964	32
29	9.29 903	9.30 782	0.69 218	9.99 122	9.33 477	9.34 516	0.65 484	9.98 961	31
30	9.29 966	9.30 846	0.69 154	9.99 119	9.33 534	9.34 576	0.65 424	9.98 958	30
31	9.30 028	9.30 911	0.69 089	9.99 117	9.33 591	9.34 635	0.65 365	9.98 955	29
32	9.30 090	9.30 975	0.69 025	9.99 114	9.33 647	9.34 695	0.65 305	9.98 953	28
33	9.30 151	9.31 040	0.68 960	9.99 112	9.33 704	9.34 755	0.65 245	9.98 950	27
34	9.30 213	9.31 104	0.68 896	9.99 109	9.33 761	9.34 814	0.65 186	9.98 947	26
35	9.30 275	9.31 168	0.68 832	9.99 106	9.33 818	9.34 874	0.65 126	9.98 944	25
36	9.30 336	9.31 233	0.68 767	9.99 104	9.33 874	9.34 933	0.65 067	9.98 941	24
37	9.30 398	9.31 297	0.68 703	9.99 101	9.33 931	9.34 992	0.65 008	9.98 938	23
38	9.30 459	9.31 361	0.68 639	9.99 099	9.33 987	9.35 051	0.64 949	9.98 936	22
39	9.30 521	9.31 425	0.68 575	9.99 096	9.34 043	9.35 111	0.64 889	9.98 933	21
40	9.30 582	9.31 489	0.68 511	9.99 093	9.34 100	9.35 170	0.64 830	9.98 930	20
41	9.30 643	9.31 552	0.68 448	9.99 091	9.34 156	9.35 229	0.64 771	9.98 927	19
42	9.30 704	9.31 616	0.68 384	9.99 088	9.34 212	9.35 288	0.64 712	9.98 924	18
43	9.30 765	9.31 679	0.68 321	9.99 086	9.34 268	9.35 347	0.64 653	9.98 921	17
44	9.30 826	9.31 743	0.68 257	9.99 083	9.34 324	9.35 405	0.64 595	9.98 919	16
45	9.30 887	9.31 806	0.68 194	9.99 080	9.34 380	9.35 464	0.64 536	9.98 916	15
46	9.30 947	9.31 870	0.68 130	9.99 078	9.34 436	9.35 523	0.64 477	9.98 913	14
47	9.31 008	9.31 933	0.68 067	9.99 075	9.34 491	9.35 581	0.64 419	9.98 910	13
48	9.31 068	9.31 996	0.68 004	9.99 072	9.34 547	9.35 640	0.64 360	9.98 907	12
49	9.31 129	9.32 059	0.67 941	9.99 070	9.34 602	9.35 698	0.64 302	9.98 904	11
50	9.31 189	9.32 122	0.67 878	9.99 067	9.34 658	9.35 757	0.64 243	9.98 901	10
51	9.31 250	9.32 185	0.67 815	9.99 064	9.34 713	9.35 815	0.64 185	9.98 898	9
52	9.31 310	9.32 248	0.67 752	9.99 062	9.34 769	9.35 873	0.64 127	9.98 896	8
53	9.31 370	9.32 311	0.67 689	9.99 059	9.34 824	9.35 931	0.64 069	9.98 893	7
54	9.31 430	9.32 373	0.67 627	9.99 056	9.34 879	9.35 989	0.64 011	9.98 890	6
55	9.31 490	9.32 436	0.67 564	9.99 054	9.34 934	9.36 047	0.63 953	9.98 887	5
56	9.31 549	9.32 498	0.67 502	9.99 051	9.34 989	9.36 105	0.63 895	9.98 884	4
57	9.31 609	9.32 561	0.67 439	9.99 048	9.35 044	9.36 163	0.63 837	9.98 881	3
58	9.31 669	9.32 623	0.67 377	9.99 046	9.35 099	9.36 221	0.63 779	9.98 878	2
59	9.31 728	9.32 685	0.67 315	9.99 043	9.35 154	9.36 279	0.63 721	9.98 875	1
60	9.31 788	9.32 747	0.67 253	9.99 040	9.35 209	9.36 336	0.63 664	9.98 872	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

78°

77°

TABLE IV. — LOGARITHMIC SINES, COSINES,

13°					14°				
'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.35 209	9.36 336	0.63 664	9.98 872	9.38 368	9.39 677	0.60 323	9.98 690	60
1	9.35 263	9.36 394	0.63 606	9.98 869	9.38 418	9.39 731	0.60 269	9.98 687	59
2	9.35 318	9.36 452	0.63 548	9.98 867	9.38 469	9.39 785	0.60 215	9.98 684	58
3	9.35 373	9.36 509	0.63 491	9.98 864	9.38 519	9.39 838	0.60 162	9.98 681	57
4	9.35 427	9.36 566	0.63 434	9.98 861	9.38 570	9.39 892	0.60 108	9.98 678	56
5	9.35 481	9.36 624	0.63 376	9.98 858	9.38 620	9.39 945	0.60 055	9.98 675	55
6	9.35 536	9.36 681	0.63 319	9.98 855	9.38 670	9.39 999	0.60 001	9.98 671	54
7	9.35 590	9.36 738	0.63 262	9.98 852	9.38 721	9.40 052	0.59 948	9.98 668	53
8	9.35 644	9.36 795	0.63 205	9.98 849	9.38 771	9.40 106	0.59 894	9.98 665	52
9	9.35 698	9.36 852	0.63 148	9.98 846	9.38 821	9.40 159	0.59 841	9.98 662	51
10	9.35 752	9.36 909	0.63 091	9.98 843	9.38 871	9.40 212	0.59 788	9.98 659	50
11	9.35 806	9.36 966	0.63 034	9.98 840	9.38 921	9.40 266	0.59 734	9.98 656	49
12	9.35 860	9.37 023	0.62 977	9.98 837	9.38 971	9.40 319	0.59 681	9.98 652	48
13	9.35 914	9.37 080	0.62 920	9.98 834	9.39 021	9.40 372	0.59 628	9.98 649	47
14	9.35 968	9.37 137	0.62 863	9.98 831	9.39 071	9.40 425	0.59 575	9.98 646	46
15	9.36 022	9.37 193	0.62 807	9.98 828	9.39 121	9.40 478	0.59 522	9.98 643	45
16	9.36 075	9.37 250	0.62 750	9.98 825	9.39 170	9.40 531	0.59 469	9.98 640	44
17	9.36 129	9.37 306	0.62 694	9.98 822	9.39 220	9.40 584	0.59 416	9.98 636	43
18	9.36 182	9.37 363	0.62 637	9.98 819	9.39 270	9.40 636	0.59 364	9.98 633	42
19	9.36 236	9.37 419	0.62 581	9.98 816	9.39 319	9.40 689	0.59 311	9.98 630	41
20	9.36 289	9.37 476	0.62 524	9.98 813	9.39 369	9.40 742	0.59 258	9.98 627	40
21	9.36 342	9.37 532	0.62 468	9.98 810	9.39 418	9.40 795	0.59 205	9.98 623	39
22	9.36 395	9.37 588	0.62 412	9.98 807	9.39 467	9.40 847	0.59 153	9.98 620	38
23	9.36 449	9.37 644	0.62 356	9.98 804	9.39 517	9.40 900	0.59 100	9.98 617	37
24	9.36 502	9.37 700	0.62 300	9.98 801	9.39 566	9.40 952	0.59 048	9.98 614	36
25	9.36 555	9.37 756	0.62 244	9.98 798	9.39 615	9.41 005	0.58 995	9.98 610	35
26	9.36 608	9.37 812	0.62 188	9.98 795	9.39 664	9.41 057	0.58 943	9.98 607	34
27	9.36 660	9.37 868	0.62 132	9.98 792	9.39 713	9.41 109	0.58 891	9.98 604	33
28	9.36 713	9.37 924	0.62 076	9.98 789	9.39 762	9.41 161	0.58 839	9.98 601	32
29	9.36 766	9.37 980	0.62 020	9.98 786	9.39 811	9.41 214	0.58 786	9.98 597	31
30	9.36 819	9.38 035	0.61 965	9.98 783	9.39 860	9.41 266	0.58 734	9.98 594	30
31	9.36 871	9.38 091	0.61 909	9.98 780	9.39 909	9.41 318	0.58 682	9.98 591	29
32	9.36 924	9.38 147	0.61 853	9.98 777	9.39 958	9.41 370	0.58 630	9.98 588	28
33	9.36 976	9.38 202	0.61 798	9.98 774	9.40 006	9.41 422	0.58 578	9.98 584	27
34	9.37 028	9.38 257	0.61 743	9.98 771	9.40 055	9.41 474	0.58 526	9.98 581	26
35	9.37 081	9.38 313	0.61 687	9.98 768	9.40 103	9.41 526	0.58 474	9.98 578	25
36	9.37 133	9.38 368	0.61 632	9.98 765	9.40 152	9.41 578	0.58 422	9.98 574	24
37	9.37 185	9.38 423	0.61 577	9.98 762	9.40 200	9.41 629	0.58 371	9.98 571	23
38	9.37 237	9.38 479	0.61 521	9.98 759	9.40 249	9.41 681	0.58 319	9.98 568	22
39	9.37 289	9.38 534	0.61 466	9.98 756	9.40 297	9.41 733	0.58 267	9.98 565	21
40	9.37 341	9.38 589	0.61 411	9.98 753	9.40 346	9.41 784	0.58 216	9.98 561	20
41	9.37 393	9.38 644	0.61 356	9.98 750	9.40 394	9.41 836	0.58 164	9.98 558	19
42	9.37 445	9.38 699	0.61 301	9.98 746	9.40 442	9.41 887	0.58 113	9.98 555	18
43	9.37 497	9.38 754	0.61 246	9.98 743	9.40 490	9.41 939	0.58 061	9.98 551	17
44	9.37 549	9.38 808	0.61 192	9.98 740	9.40 538	9.41 990	0.58 010	9.98 548	16
45	9.37 600	9.38 863	0.61 137	9.98 737	9.40 586	9.42 041	0.57 959	9.98 545	15
46	9.37 652	9.38 918	0.61 082	9.98 734	9.40 634	9.42 093	0.57 907	9.98 541	14
47	9.37 703	9.38 972	0.61 028	9.98 731	9.40 682	9.42 144	0.57 856	9.98 538	13
48	9.37 755	9.39 027	0.60 973	9.98 728	9.40 730	9.42 195	0.57 805	9.98 535	12
49	9.37 806	9.39 082	0.60 918	9.98 725	9.40 778	9.42 246	0.57 754	9.98 531	11
50	9.37 858	9.39 136	0.60 864	9.98 722	9.40 825	9.42 297	0.57 703	9.98 528	10
51	9.37 909	9.39 190	0.60 810	9.98 719	9.40 873	9.42 348	0.57 652	9.98 525	9
52	9.37 960	9.39 245	0.60 755	9.98 715	9.40 921	9.42 399	0.57 601	9.98 521	8
53	9.38 011	9.39 299	0.60 701	9.98 712	9.40 968	9.42 450	0.57 550	9.98 518	7
54	9.38 062	9.39 353	0.60 647	9.98 709	9.41 016	9.42 501	0.57 499	9.98 515	6
55	9.38 113	9.39 407	0.60 593	9.98 706	9.41 063	9.42 552	0.57 448	9.98 511	5
56	9.38 164	9.39 461	0.60 539	9.98 703	9.41 111	9.42 603	0.57 397	9.98 508	4
57	9.38 215	9.39 515	0.60 485	9.98 700	9.41 158	9.42 653	0.57 347	9.98 505	3
58	9.38 266	9.39 569	0.60 431	9.98 697	9.41 205	9.42 704	0.57 296	9.98 501	2
59	9.38 317	9.39 623	0.60 377	9.98 694	9.41 252	9.42 755	0.57 245	9.98 498	1
60	9.38 368	9.39 677	0.60 323	9.98 690	9.41 300	9.42 805	0.57 195	9.98 494	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

76°

75°

TANGENTS AND COTANGENTS

15°

16°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.41 300	9.42 805	0.57 195	9.98 494	9.44 034	9.45 750	0.54 250	9.98 284	60
1	9.41 347	9.42 856	0.57 144	9.98 491	9.44 078	9.45 797	0.54 203	9.98 281	59
2	9.41 394	9.42 906	0.57 094	9.98 488	9.44 122	9.45 845	0.54 155	9.98 277	58
3	9.41 441	9.42 957	0.57 043	9.98 484	9.44 166	9.45 892	0.54 108	9.98 273	57
4	9.41 488	9.43 007	0.56 993	9.98 481	9.44 210	9.45 940	0.54 060	9.98 270	56
5	9.41 535	9.43 057	0.56 943	9.98 477	9.44 253	9.45 987	0.54 013	9.98 266	55
6	9.41 582	9.43 108	0.56 892	9.98 474	9.44 297	9.46 035	0.53 965	9.98 262	54
7	9.41 628	9.43 158	0.56 842	9.98 471	9.44 341	9.46 082	0.53 918	9.98 259	53
8	9.41 675	9.43 208	0.56 792	9.98 467	9.44 385	9.46 130	0.53 870	9.98 255	52
9	9.41 722	9.43 258	0.56 742	9.98 464	9.44 428	9.46 177	0.53 823	9.98 251	51
10	9.41 768	9.43 308	0.56 692	9.98 460	9.44 472	9.46 224	0.53 776	9.98 248	50
11	9.41 815	9.43 358	0.56 642	9.98 457	9.44 516	9.46 271	0.53 729	9.98 244	49
12	9.41 861	9.43 408	0.56 592	9.98 453	9.44 559	9.46 319	0.53 681	9.98 240	48
13	9.41 908	9.43 458	0.56 542	9.98 450	9.44 602	9.46 366	0.53 634	9.98 237	47
14	9.41 954	9.43 508	0.56 492	9.98 447	9.44 646	9.46 413	0.53 587	9.98 233	46
15	9.42 001	9.43 558	0.56 442	9.98 443	9.44 689	9.46 460	0.53 540	9.98 229	45
16	9.42 047	9.43 607	0.56 393	9.98 440	9.44 733	9.46 507	0.53 493	9.98 226	44
17	9.42 093	9.43 657	0.56 343	9.98 436	9.44 776	9.46 554	0.53 446	9.98 222	43
18	9.42 140	9.43 707	0.56 293	9.98 433	9.44 819	9.46 601	0.53 399	9.98 218	42
19	9.42 186	9.43 756	0.56 244	9.98 429	9.44 862	9.46 648	0.53 352	9.98 215	41
20	9.42 232	9.43 806	0.56 194	9.98 426	9.44 905	9.46 694	0.53 306	9.98 211	40
21	9.42 278	9.43 855	0.56 145	9.98 422	9.44 948	9.46 741	0.53 259	9.98 207	39
22	9.42 324	9.43 905	0.56 095	9.98 419	9.44 992	9.46 788	0.53 212	9.98 204	38
23	9.42 370	9.43 954	0.56 046	9.98 415	9.45 035	9.46 835	0.53 165	9.98 200	37
24	9.42 416	9.44 004	0.55 996	9.98 412	9.45 077	9.46 881	0.53 119	9.98 196	36
25	9.42 461	9.44 053	0.55 947	9.98 409	9.45 120	9.46 928	0.53 072	9.98 192	35
26	9.42 507	9.44 102	0.55 898	9.98 405	9.45 163	9.46 975	0.53 025	9.98 189	34
27	9.42 553	9.44 151	0.55 849	9.98 402	9.45 206	9.47 021	0.52 979	9.98 185	33
28	9.42 599	9.44 201	0.55 799	9.98 398	9.45 249	9.47 068	0.52 932	9.98 181	32
29	9.42 644	9.44 250	0.55 750	9.98 395	9.45 292	9.47 114	0.52 886	9.98 177	31
30	9.42 690	9.44 299	0.55 701	9.98 391	9.45 334	9.47 160	0.52 840	9.98 174	30
31	9.42 735	9.44 348	0.55 652	9.98 388	9.45 377	9.47 207	0.52 793	9.98 170	29
32	9.42 781	9.44 397	0.55 603	9.98 384	9.45 419	9.47 253	0.52 747	9.98 166	28
33	9.42 826	9.44 446	0.55 554	9.98 381	9.45 462	9.47 299	0.52 701	9.98 162	27
34	9.42 872	9.44 495	0.55 505	9.98 377	9.45 504	9.47 346	0.52 654	9.98 159	26
35	9.42 917	9.44 544	0.55 456	9.98 373	9.45 547	9.47 392	0.52 608	9.98 155	25
36	9.42 962	9.44 592	0.55 408	9.98 370	9.45 589	9.47 438	0.52 562	9.98 151	24
37	9.43 008	9.44 641	0.55 359	9.98 366	9.45 632	9.47 484	0.52 516	9.98 147	23
38	9.43 053	9.44 690	0.55 310	9.98 363	9.45 674	9.47 530	0.52 470	9.98 144	22
39	9.43 098	9.44 738	0.55 262	9.98 359	9.45 716	9.47 576	0.52 424	9.98 140	21
40	9.43 143	9.44 787	0.55 213	9.98 356	9.45 758	9.47 622	0.52 378	9.98 136	20
41	9.43 188	9.44 836	0.55 164	9.98 352	9.45 801	9.47 668	0.52 332	9.98 132	19
42	9.43 233	9.44 884	0.55 116	9.98 349	9.45 843	9.47 714	0.52 286	9.98 129	18
43	9.43 278	9.44 933	0.55 067	9.98 345	9.45 885	9.47 760	0.52 240	9.98 125	17
44	9.43 323	9.44 981	0.55 019	9.98 342	9.45 927	9.47 806	0.52 194	9.98 121	16
45	9.43 367	9.45 029	0.54 971	9.98 338	9.45 969	9.47 852	0.52 148	9.98 117	15
46	9.43 412	9.45 078	0.54 922	9.98 334	9.46 011	9.47 897	0.52 103	9.98 113	14
47	9.43 457	9.45 126	0.54 874	9.98 331	9.46 053	9.47 943	0.52 057	9.98 110	13
48	9.43 502	9.45 174	0.54 826	9.98 327	9.46 095	9.47 989	0.52 011	9.98 106	12
49	9.43 546	9.45 222	0.54 778	9.98 324	9.46 136	9.48 035	0.51 965	9.98 102	11
50	9.43 591	9.45 271	0.54 729	9.98 320	9.46 178	9.48 080	0.51 920	9.98 098	10
51	9.43 635	9.45 319	0.54 681	9.98 317	9.46 220	9.48 126	0.51 874	9.98 094	9
52	9.43 680	9.45 367	0.54 633	9.98 313	9.46 262	9.48 171	0.51 829	9.98 090	8
53	9.43 724	9.45 415	0.54 585	9.98 309	9.46 303	9.48 217	0.51 783	9.98 087	7
54	9.43 769	9.45 463	0.54 537	9.98 306	9.46 345	9.48 262	0.51 738	9.98 083	6
55	9.43 813	9.45 511	0.54 489	9.98 302	9.46 386	9.48 307	0.51 693	9.98 079	5
56	9.43 857	9.45 559	0.54 441	9.98 299	9.46 428	9.48 353	0.51 647	9.98 075	4
57	9.43 901	9.45 606	0.54 394	9.98 295	9.46 469	9.48 398	0.51 602	9.98 071	3
58	9.43 946	9.45 654	0.54 346	9.98 291	9.46 511	9.48 443	0.51 557	9.98 067	2
59	9.43 990	9.45 702	0.54 298	9.98 288	9.46 552	9.48 489	0.51 511	9.98 063	1
60	9.44 034	9.45 750	0.54 250	9.98 284	9.46 594	9.48 534	0.51 466	9.98 060	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

74°

73°

TABLE IV. — LOGARITHMIC SINES, COSINES,

17°					18°				
'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.46 594	9.48 534	0.51 466	9.98 060	9.48 998	9.51 178	0.48 822	9.97 821	60
1	9.46 635	9.48 579	0.51 421	9.98 056	9.49 037	9.51 221	0.48 779	9.97 817	59
2	9.46 676	9.48 624	0.51 376	9.98 052	9.49 076	9.51 264	0.48 736	9.97 812	58
3	9.46 717	9.48 669	0.51 331	9.98 048	9.49 115	9.51 306	0.48 694	9.97 808	57
4	9.46 758	9.48 714	0.51 286	9.98 044	9.49 153	9.51 349	0.48 651	9.97 804	56
5	9.46 800	9.48 759	0.51 241	9.98 040	9.49 192	9.51 392	0.48 608	9.97 800	55
6	9.46 841	9.48 804	0.51 196	9.98 036	9.49 231	9.51 435	0.48 565	9.97 796	54
7	9.46 882	9.48 849	0.51 151	9.98 032	9.49 269	9.51 478	0.48 522	9.97 792	53
8	9.46 923	9.48 894	0.51 106	9.98 029	9.49 308	9.51 520	0.48 480	9.97 788	52
9	9.46 964	9.48 939	0.51 061	9.98 025	9.49 347	9.51 563	0.48 437	9.97 784	51
10	9.47 005	9.48 984	0.51 016	9.98 021	9.49 385	9.51 606	0.48 394	9.97 779	50
11	9.47 045	9.49 029	0.50 971	9.98 017	9.49 424	9.51 648	0.48 352	9.97 775	49
12	9.47 086	9.49 073	0.50 927	9.98 013	9.49 462	9.51 691	0.48 309	9.97 771	48
13	9.47 127	9.49 118	0.50 882	9.98 009	9.49 500	9.51 734	0.48 266	9.97 767	47
14	9.47 168	9.49 163	0.50 837	9.98 005	9.49 539	9.51 776	0.48 224	9.97 763	46
15	9.47 209	9.49 207	0.50 793	9.98 001	9.49 577	9.51 819	0.48 181	9.97 759	45
16	9.47 249	9.49 252	0.50 748	9.97 997	9.49 615	9.51 861	0.48 139	9.97 754	44
17	9.47 290	9.49 296	0.50 704	9.97 993	9.49 654	9.51 903	0.48 097	9.97 750	43
18	9.47 330	9.49 341	0.50 659	9.97 989	9.49 692	9.51 946	0.48 054	9.97 746	42
19	9.47 371	9.49 385	0.50 615	9.97 986	9.49 730	9.51 988	0.48 012	9.97 742	41
20	9.47 411	9.49 430	0.50 570	9.97 982	9.49 768	9.52 031	0.47 969	9.97 738	40
21	9.47 452	9.49 474	0.50 526	9.97 978	9.49 806	9.52 073	0.47 927	9.97 734	39
22	9.47 492	9.49 519	0.50 481	9.97 974	9.49 844	9.52 115	0.47 885	9.97 729	38
23	9.47 533	9.49 563	0.50 437	9.97 970	9.49 882	9.52 157	0.47 843	9.97 725	37
24	9.47 573	9.49 607	0.50 393	9.97 966	9.49 920	9.52 200	0.47 800	9.97 721	36
25	9.47 613	9.49 652	0.50 348	9.97 962	9.49 958	9.52 242	0.47 758	9.97 717	35
26	9.47 654	9.49 696	0.50 304	9.97 958	9.49 996	9.52 284	0.47 716	9.97 713	34
27	9.47 694	9.49 740	0.50 260	9.97 954	9.50 034	9.52 326	0.47 674	9.97 708	33
28	9.47 734	9.49 784	0.50 216	9.97 950	9.50 072	9.52 368	0.47 632	9.97 704	32
29	9.47 774	9.49 828	0.50 172	9.97 946	9.50 110	9.52 410	0.47 590	9.97 700	31
30	9.47 814	9.49 872	0.50 128	9.97 942	9.50 148	9.52 452	0.47 548	9.97 696	30
31	9.47 854	9.49 916	0.50 084	9.97 938	9.50 185	9.52 494	0.47 506	9.97 691	29
32	9.47 894	9.49 960	0.50 040	9.97 934	9.50 223	9.52 536	0.47 464	9.97 687	28
33	9.47 934	9.50 004	0.49 996	9.97 930	9.50 261	9.52 578	0.47 422	9.97 683	27
34	9.47 974	9.50 048	0.49 952	9.97 926	9.50 298	9.52 620	0.47 380	9.97 679	26
35	9.48 014	9.50 092	0.49 908	9.97 922	9.50 336	9.52 661	0.47 339	9.97 674	25
36	9.48 054	9.50 136	0.49 864	9.97 918	9.50 374	9.52 703	0.47 297	9.97 670	24
37	9.48 094	9.50 180	0.49 820	9.97 914	9.50 411	9.52 745	0.47 255	9.97 666	23
38	9.48 133	9.50 223	0.49 777	9.97 910	9.50 449	9.52 787	0.47 213	9.97 662	22
39	9.48 173	9.50 267	0.49 733	9.97 906	9.50 486	9.52 829	0.47 171	9.97 657	21
40	9.48 213	9.50 311	0.49 689	9.97 902	9.50 523	9.52 870	0.47 130	9.97 653	20
41	9.48 252	9.50 355	0.49 645	9.97 898	9.50 561	9.52 912	0.47 088	9.97 649	19
42	9.48 292	9.50 398	0.49 602	9.97 894	9.50 598	9.52 953	0.47 047	9.97 645	18
43	9.48 332	9.50 442	0.49 558	9.97 890	9.50 635	9.52 995	0.47 005	9.97 640	17
44	9.48 371	9.50 485	0.49 515	9.97 886	9.50 673	9.53 037	0.46 963	9.97 636	16
45	9.48 411	9.50 529	0.49 471	9.97 882	9.50 710	9.53 078	0.46 922	9.97 632	15
46	9.48 450	9.50 572	0.49 428	9.97 878	9.50 747	9.53 120	0.46 880	9.97 628	14
47	9.48 490	9.50 616	0.49 384	9.97 874	9.50 784	9.53 161	0.46 839	9.97 623	13
48	9.48 529	9.50 659	0.49 341	9.97 870	9.50 821	9.53 202	0.46 798	9.97 619	12
49	9.48 568	9.50 703	0.49 297	9.97 866	9.50 858	9.53 244	0.46 756	9.97 615	11
50	9.48 607	9.50 746	0.49 254	9.97 861	9.50 896	9.53 285	0.46 715	9.97 610	10
51	9.48 647	9.50 789	0.49 211	9.97 857	9.50 933	9.53 327	0.46 673	9.97 606	9
52	9.48 686	9.50 833	0.49 167	9.97 853	9.50 970	9.53 368	0.46 632	9.97 602	8
53	9.48 725	9.50 876	0.49 124	9.97 849	9.51 007	9.53 409	0.46 591	9.97 597	7
54	9.48 764	9.50 919	0.49 081	9.97 845	9.51 043	9.53 450	0.46 550	9.97 593	6
55	9.48 803	9.50 962	0.49 038	9.97 841	9.51 080	9.53 492	0.46 508	9.97 589	5
56	9.48 842	9.51 005	0.48 995	9.97 837	9.51 117	9.53 533	0.46 467	9.97 584	4
57	9.48 881	9.51 048	0.48 952	9.97 833	9.51 154	9.53 574	0.46 426	9.97 580	3
58	9.48 920	9.51 092	0.48 908	9.97 829	9.51 191	9.53 615	0.46 385	9.97 576	2
59	9.48 959	9.51 135	0.48 865	9.97 825	9.51 227	9.53 656	0.46 344	9.97 571	1
60	9.48 998	9.51 178	0.48 822	9.97 821	9.51 264	9.53 697	0.46 303	9.97 567	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

TANGENTS AND COTANGENTS

19°

20°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.51 264	9.53 697	0.46 303	9.97 567	9.53 405	9.56 107	0.43 893	9.97 299	60
1	9.51 301	9.53 738	0.46 262	9.97 563	9.53 440	9.56 146	0.43 854	9.97 294	59
2	9.51 338	9.53 779	0.46 221	9.97 558	9.53 475	9.56 185	0.43 815	9.97 289	58
3	9.51 374	9.53 820	0.46 180	9.97 554	9.53 509	9.56 224	0.43 776	9.97 285	57
4	9.51 411	9.53 861	0.46 139	9.97 550	9.53 544	9.56 264	0.43 736	9.97 280	56
5	9.51 447	9.53 902	0.46 098	9.97 545	9.53 578	9.56 303	0.43 697	9.97 276	55
6	9.51 484	9.53 943	0.46 057	9.97 541	9.53 613	9.56 342	0.43 658	9.97 271	54
7	9.51 520	9.53 984	0.46 016	9.97 536	9.53 647	9.56 381	0.43 619	9.97 266	53
8	9.51 557	9.54 025	0.45 975	9.97 532	9.53 682	9.56 420	0.43 580	9.97 262	52
9	9.51 593	9.54 065	0.45 935	9.97 528	9.53 716	9.56 459	0.43 541	9.97 257	51
10	9.51 629	9.54 106	0.45 894	9.97 523	9.53 751	9.56 498	0.43 502	9.97 252	50
11	9.51 666	9.54 147	0.45 853	9.97 519	9.53 785	9.56 537	0.43 463	9.97 248	49
12	9.51 702	9.54 187	0.45 813	9.97 515	9.53 819	9.56 576	0.43 424	9.97 243	48
13	9.51 738	9.54 228	0.45 772	9.97 510	9.53 854	9.56 615	0.43 385	9.97 238	47
14	9.51 774	9.54 269	0.45 731	9.97 506	9.53 888	9.56 654	0.43 346	9.97 234	46
15	9.51 811	9.54 309	0.45 691	9.97 501	9.53 922	9.56 693	0.43 307	9.97 229	45
16	9.51 847	9.54 350	0.45 650	9.97 497	9.53 957	9.56 732	0.43 268	9.97 224	44
17	9.51 883	9.54 390	0.45 610	9.97 492	9.53 991	9.56 771	0.43 229	9.97 220	43
18	9.51 919	9.54 431	0.45 569	9.97 488	9.54 025	9.56 810	0.43 190	9.97 215	42
19	9.51 955	9.54 471	0.45 529	9.97 484	9.54 059	9.56 849	0.43 151	9.97 210	41
20	9.51 991	9.54 512	0.45 488	9.97 479	9.54 093	9.56 887	0.43 113	9.97 206	40
21	9.52 027	9.54 552	0.45 448	9.97 475	9.54 127	9.56 926	0.43 074	9.97 201	39
22	9.52 063	9.54 593	0.45 407	9.97 470	9.54 161	9.56 965	0.43 035	9.97 196	38
23	9.52 099	9.54 633	0.45 367	9.97 466	9.54 195	9.57 004	0.42 996	9.97 192	37
24	9.52 135	9.54 673	0.45 327	9.97 461	9.54 229	9.57 042	0.42 958	9.97 187	36
25	9.52 171	9.54 714	0.45 286	9.97 457	9.54 263	9.57 081	0.42 919	9.97 182	35
26	9.52 207	9.54 754	0.45 246	9.97 453	9.54 297	9.57 120	0.42 880	9.97 178	34
27	9.52 242	9.54 794	0.45 206	9.97 448	9.54 331	9.57 158	0.42 842	9.97 173	33
28	9.52 278	9.54 835	0.45 165	9.97 444	9.54 365	9.57 197	0.42 803	9.97 168	32
29	9.52 314	9.54 875	0.45 125	9.97 439	9.54 399	9.57 235	0.42 765	9.97 163	31
30	9.52 350	9.54 915	0.45 085	9.97 435	9.54 433	9.57 274	0.42 726	9.97 159	30
31	9.52 385	9.54 955	0.45 045	9.97 430	9.54 466	9.57 312	0.42 688	9.97 154	29
32	9.52 421	9.54 995	0.45 005	9.97 426	9.54 500	9.57 351	0.42 649	9.97 149	28
33	9.52 456	9.55 035	0.44 965	9.97 421	9.54 534	9.57 389	0.42 611	9.97 145	27
34	9.52 492	9.55 075	0.44 925	9.97 417	9.54 567	9.57 428	0.42 572	9.97 140	26
35	9.52 527	9.55 115	0.44 885	9.97 412	9.54 601	9.57 466	0.42 534	9.97 135	25
36	9.52 563	9.55 155	0.44 845	9.97 408	9.54 635	9.57 504	0.42 496	9.97 130	24
37	9.52 598	9.55 195	0.44 805	9.97 403	9.54 668	9.57 543	0.42 457	9.97 126	23
38	9.52 634	9.55 235	0.44 765	9.97 399	9.54 702	9.57 581	0.42 419	9.97 121	22
39	9.52 669	9.55 275	0.44 725	9.97 394	9.54 735	9.57 619	0.42 381	9.97 116	21
40	9.52 705	9.55 315	0.44 685	9.97 390	9.54 769	9.57 658	0.42 342	9.97 111	20
41	9.52 740	9.55 355	0.44 645	9.97 385	9.54 802	9.57 696	0.42 304	9.97 107	19
42	9.52 775	9.55 395	0.44 605	9.97 381	9.54 836	9.57 734	0.42 266	9.97 102	18
43	9.52 811	9.55 434	0.44 566	9.97 376	9.54 869	9.57 772	0.42 228	9.97 097	17
44	9.52 846	9.55 474	0.44 526	9.97 372	9.54 903	9.57 810	0.42 190	9.97 092	16
45	9.52 881	9.55 514	0.44 486	9.97 367	9.54 936	9.57 849	0.42 151	9.97 087	15
46	9.52 916	9.55 554	0.44 446	9.97 363	9.54 969	9.57 887	0.42 113	9.97 083	14
47	9.52 951	9.55 593	0.44 407	9.97 358	9.55 003	9.57 925	0.42 075	9.97 078	13
48	9.52 986	9.55 633	0.44 367	9.97 353	9.55 036	9.57 963	0.42 037	9.97 073	12
49	9.53 021	9.55 673	0.44 327	9.97 349	9.55 069	9.58 001	0.41 999	9.97 068	11
50	9.53 056	9.55 712	0.44 288	9.97 344	9.55 102	9.58 039	0.41 961	9.97 063	10
51	9.53 092	9.55 752	0.44 248	9.97 340	9.55 136	9.58 077	0.41 923	9.97 059	9
52	9.53 126	9.55 791	0.44 209	9.97 335	9.55 169	9.58 115	0.41 885	9.97 054	8
53	9.53 161	9.55 831	0.44 169	9.97 331	9.55 202	9.58 153	0.41 847	9.97 049	7
54	9.53 196	9.55 870	0.44 130	9.97 326	9.55 235	9.58 191	0.41 809	9.97 044	6
55	9.53 231	9.55 910	0.44 090	9.97 322	9.55 268	9.58 229	0.41 771	9.97 039	5
56	9.53 266	9.55 949	0.44 051	9.97 317	9.55 301	9.58 267	0.41 733	9.97 035	4
57	9.53 301	9.55 989	0.44 011	9.97 312	9.55 334	9.58 304	0.41 696	9.97 030	3
58	9.53 336	9.56 028	0.43 972	9.97 308	9.55 367	9.58 342	0.41 658	9.97 025	2
59	9.53 370	9.56 067	0.43 933	9.97 303	9.55 400	9.58 380	0.41 620	9.97 020	1
60	9.53 405	9.56 107	0.43 893	9.97 299	9.55 433	9.58 418	0.41 582	9.97 015	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

70°

69°

21°

22°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.55 433	9.58 418	0.41 582	9.97 015	9.57 358	9.60 641	0.39 359	9.96 717	60
1	9.55 466	9.58 455	0.41 545	9.97 010	9.57 389	9.60 677	0.39 323	9.96 711	59
2	9.55 499	9.58 493	0.41 507	9.97 005	9.57 420	9.60 714	0.39 286	9.96 706	58
3	9.55 532	9.58 531	0.41 469	9.97 001	9.57 451	9.60 750	0.39 250	9.96 701	57
4	9.55 564	9.58 569	0.41 431	9.96 996	9.57 482	9.60 786	0.39 214	9.96 696	56
5	9.55 597	9.58 606	0.41 394	9.96 991	9.57 514	9.60 823	0.39 177	9.96 691	55
6	9.55 630	9.58 644	0.41 356	9.96 986	9.57 545	9.60 859	0.39 141	9.96 686	54
7	9.55 663	9.58 681	0.41 319	9.96 981	9.57 576	9.60 895	0.39 105	9.96 681	53
8	9.55 695	9.58 719	0.41 281	9.96 976	9.57 607	9.60 931	0.39 069	9.96 676	52
9	9.55 728	9.58 757	0.41 243	9.96 971	9.57 638	9.60 967	0.39 033	9.96 670	51
10	9.55 761	9.58 794	0.41 206	9.96 966	9.57 669	9.61 004	0.38 996	9.96 665	50
11	9.55 793	9.58 832	0.41 168	9.96 962	9.57 700	9.61 040	0.38 960	9.96 660	49
12	9.55 826	9.58 869	0.41 131	9.96 957	9.57 731	9.61 076	0.38 924	9.96 655	48
13	9.55 858	9.58 907	0.41 093	9.96 952	9.57 762	9.61 112	0.38 888	9.96 650	47
14	9.55 891	9.58 944	0.41 056	9.96 947	9.57 793	9.61 148	0.38 852	9.96 645	46
15	9.55 923	9.58 981	0.41 019	9.96 942	9.57 824	9.61 184	0.38 816	9.96 640	45
16	9.55 956	9.59 019	0.40 981	9.96 937	9.57 855	9.61 220	0.38 780	9.96 634	44
17	9.55 988	9.59 056	0.40 944	9.96 932	9.57 885	9.61 256	0.38 744	9.96 629	43
18	9.56 021	9.59 094	0.40 906	9.96 927	9.57 916	9.61 292	0.38 708	9.96 624	42
19	9.56 053	9.59 131	0.40 869	9.96 922	9.57 947	9.61 328	0.38 672	9.96 619	41
20	9.56 085	9.59 168	0.40 832	9.96 917	9.57 978	9.61 364	0.38 636	9.96 614	40
21	9.56 118	9.59 205	0.40 795	9.96 912	9.58 008	9.61 400	0.38 600	9.96 608	39
22	9.56 150	9.59 243	0.40 757	9.96 907	9.58 039	9.61 436	0.38 564	9.96 603	38
23	9.56 182	9.59 280	0.40 720	9.96 903	9.58 070	9.61 472	0.38 528	9.96 598	37
24	9.56 215	9.59 317	0.40 683	9.96 898	9.58 101	9.61 508	0.38 492	9.96 593	36
25	9.56 247	9.59 354	0.40 646	9.96 893	9.58 131	9.61 544	0.38 456	9.96 588	35
26	9.56 279	9.59 391	0.40 609	9.96 888	9.58 162	9.61 579	0.38 421	9.96 582	34
27	9.56 311	9.59 429	0.40 571	9.96 883	9.58 192	9.61 615	0.38 385	9.96 577	33
28	9.56 343	9.59 466	0.40 534	9.96 878	9.58 223	9.61 651	0.38 349	9.96 572	32
29	9.56 375	9.59 503	0.40 497	9.96 873	9.58 253	9.61 687	0.38 313	9.96 567	31
30	9.56 408	9.59 540	0.40 460	9.96 868	9.58 284	9.61 722	0.38 278	9.96 562	30
31	9.56 440	9.59 577	0.40 423	9.96 863	9.58 314	9.61 758	0.38 242	9.96 556	29
32	9.56 472	9.59 614	0.40 386	9.96 858	9.58 345	9.61 794	0.38 206	9.96 551	28
33	9.56 504	9.59 651	0.40 349	9.96 853	9.58 375	9.61 830	0.38 170	9.96 546	27
34	9.56 536	9.59 688	0.40 312	9.96 848	9.58 406	9.61 865	0.38 135	9.96 541	26
35	9.56 568	9.59 725	0.40 275	9.96 843	9.58 436	9.61 901	0.38 099	9.96 535	25
36	9.56 599	9.59 762	0.40 238	9.96 838	9.58 467	9.61 936	0.38 064	9.96 530	24
37	9.56 631	9.59 799	0.40 201	9.96 833	9.58 497	9.61 972	0.38 028	9.96 525	23
38	9.56 663	9.59 835	0.40 165	9.96 828	9.58 527	9.62 008	0.37 992	9.96 520	22
39	9.56 695	9.59 872	0.40 128	9.96 823	9.58 557	9.62 043	0.37 957	9.96 514	21
40	9.56 727	9.59 909	0.40 091	9.96 818	9.58 588	9.62 079	0.37 921	9.96 509	20
41	9.56 759	9.59 946	0.40 054	9.96 813	9.58 618	9.62 114	0.37 886	9.96 504	19
42	9.56 790	9.59 983	0.40 017	9.96 808	9.58 648	9.62 150	0.37 850	9.96 498	18
43	9.56 822	9.60 019	0.39 981	9.96 803	9.58 678	9.62 185	0.37 815	9.96 493	17
44	9.56 854	9.60 056	0.39 944	9.96 798	9.58 709	9.62 221	0.37 779	9.96 488	16
45	9.56 886	9.60 093	0.39 907	9.96 793	9.58 739	9.62 256	0.37 744	9.96 483	15
46	9.56 917	9.60 130	0.39 870	9.96 788	9.58 769	9.62 292	0.37 708	9.96 477	14
47	9.56 949	9.60 166	0.39 834	9.96 783	9.58 799	9.62 327	0.37 673	9.96 472	13
48	9.56 980	9.60 203	0.39 797	9.96 778	9.58 829	9.62 362	0.37 638	9.96 467	12
49	9.57 012	9.60 240	0.39 760	9.96 772	9.58 859	9.62 398	0.37 602	9.96 461	11
50	9.57 044	9.60 276	0.39 724	9.96 767	9.58 889	9.62 433	0.37 567	9.96 456	10
51	9.57 075	9.60 313	0.39 687	9.96 762	9.58 919	9.62 468	0.37 532	9.96 451	9
52	9.57 107	9.60 349	0.39 651	9.96 757	9.58 949	9.62 504	0.37 496	9.96 445	8
53	9.57 138	9.60 386	0.39 614	9.96 752	9.58 979	9.62 539	0.37 461	9.96 440	7
54	9.57 169	9.60 422	0.39 578	9.96 747	9.59 009	9.62 574	0.37 426	9.96 435	6
55	9.57 201	9.60 459	0.39 541	9.96 742	9.59 039	9.62 609	0.37 391	9.96 429	5
56	9.57 232	9.60 495	0.39 505	9.96 737	9.59 069	9.62 645	0.37 355	9.96 424	4
57	9.57 264	9.60 532	0.39 468	9.96 732	9.59 098	9.62 680	0.37 320	9.96 419	3
58	9.57 295	9.60 568	0.39 432	9.96 727	9.59 128	9.62 715	0.37 285	9.96 413	2
59	9.57 326	9.60 605	0.39 395	9.96 722	9.59 158	9.62 750	0.37 250	9.96 408	1
60	9.57 358	9.60 641	0.39 359	9.96 717	9.59 188	9.62 785	0.37 215	9.96 403	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

68°

67°

TANGENTS AND COTANGENTS

23°

24°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.59 188	9.62 785	0.37 215	9.96 403	9.60 931	9.64 858	0.35 142	9.96 073	60
1	9.59 218	9.62 820	0.37 180	9.96 397	9.60 960	9.64 892	0.35 108	9.96 067	59
2	9.59 247	9.62 855	0.37 145	9.96 392	9.60 988	9.64 926	0.35 074	9.96 062	58
3	9.59 277	9.62 890	0.37 110	9.96 387	9.61 016	9.64 960	0.35 040	9.96 056	57
4	9.59 307	9.62 926	0.37 074	9.96 381	9.61 045	9.64 994	0.35 006	9.96 050	56
5	9.59 336	9.62 961	0.37 039	9.96 376	9.61 073	9.65 028	0.34 972	9.96 045	55
6	9.59 366	9.62 996	0.37 004	9.96 370	9.61 101	9.65 062	0.34 938	9.96 039	54
7	9.59 396	9.63 031	0.36 969	9.96 365	9.61 129	9.65 096	0.34 904	9.96 034	53
8	9.59 425	9.63 066	0.36 934	9.96 360	9.61 158	9.65 130	0.34 870	9.96 028	52
9	9.59 455	9.63 101	0.36 899	9.96 354	9.61 186	9.65 164	0.34 836	9.96 022	51
10	9.59 484	9.63 135	0.36 865	9.96 349	9.61 214	9.65 197	0.34 803	9.96 017	50
11	9.59 514	9.63 170	0.36 830	9.96 343	9.61 242	9.65 231	0.34 769	9.96 011	49
12	9.59 543	9.63 205	0.36 795	9.96 338	9.61 270	9.65 265	0.34 735	9.96 005	48
13	9.59 573	9.63 240	0.36 760	9.96 333	9.61 298	9.65 299	0.34 701	9.96 000	47
14	9.59 602	9.63 275	0.36 725	9.96 327	9.61 326	9.65 333	0.34 667	9.95 994	46
15	9.59 632	9.63 310	0.36 690	9.96 322	9.61 354	9.65 366	0.34 634	9.95 988	45
16	9.59 661	9.63 345	0.36 655	9.96 316	9.61 382	9.65 400	0.34 600	9.95 982	44
17	9.59 690	9.63 379	0.36 621	9.96 311	9.61 411	9.65 434	0.34 566	9.95 977	43
18	9.59 720	9.63 414	0.36 586	9.96 305	9.61 438	9.65 467	0.34 533	9.95 971	42
19	9.59 749	9.63 449	0.36 551	9.96 300	9.61 466	9.65 501	0.34 499	9.95 965	41
20	9.59 778	9.63 484	0.36 516	9.96 294	9.61 494	9.65 535	0.34 465	9.95 960	40
21	9.59 808	9.63 519	0.36 481	9.96 289	9.61 522	9.65 568	0.34 432	9.95 954	39
22	9.59 837	9.63 553	0.36 447	9.96 284	9.61 550	9.65 602	0.34 398	9.95 948	38
23	9.59 866	9.63 588	0.36 412	9.96 278	9.61 578	9.65 636	0.34 364	9.95 942	37
24	9.59 895	9.63 623	0.36 377	9.96 273	9.61 606	9.65 669	0.34 331	9.95 937	36
25	9.59 924	9.63 657	0.36 343	9.96 267	9.61 634	9.65 703	0.34 297	9.95 931	35
26	9.59 954	9.63 692	0.36 308	9.96 262	9.61 662	9.65 736	0.34 264	9.95 925	34
27	9.59 983	9.63 726	0.36 274	9.96 256	9.61 689	9.65 770	0.34 230	9.95 920	33
28	9.60 012	9.63 761	0.36 239	9.96 251	9.61 717	9.65 803	0.34 197	9.95 914	32
29	9.60 041	9.63 796	0.36 204	9.96 245	9.61 745	9.65 837	0.34 163	9.95 908	31
30	9.60 070	9.63 830	0.36 170	9.96 240	9.61 773	9.65 870	0.34 130	9.95 902	30
31	9.60 099	9.63 865	0.36 135	9.96 234	9.61 800	9.65 904	0.34 096	9.95 897	29
32	9.60 128	9.63 899	0.36 101	9.96 229	9.61 828	9.65 937	0.34 063	9.95 891	28
33	9.60 157	9.63 934	0.36 066	9.96 223	9.61 856	9.65 971	0.34 029	9.95 885	27
34	9.60 186	9.63 968	0.36 032	9.96 218	9.61 883	9.66 004	0.33 996	9.95 879	26
35	9.60 215	9.64 003	0.35 997	9.96 212	9.61 911	9.66 038	0.33 962	9.95 873	25
36	9.60 244	9.64 037	0.35 963	9.96 207	9.61 939	9.66 071	0.33 929	9.95 868	24
37	9.60 273	9.64 072	0.35 928	9.96 201	9.61 966	9.66 104	0.33 896	9.95 862	23
38	9.60 302	9.64 106	0.35 894	9.96 196	9.61 994	9.66 138	0.33 862	9.95 856	22
39	9.60 331	9.64 140	0.35 860	9.96 190	9.62 021	9.66 171	0.33 829	9.95 850	21
40	9.60 359	9.64 175	0.35 825	9.96 185	9.62 049	9.66 204	0.33 796	9.95 844	20
41	9.60 388	9.64 209	0.35 791	9.96 179	9.62 076	9.66 238	0.33 762	9.95 839	19
42	9.60 417	9.64 243	0.35 757	9.96 174	9.62 104	9.66 271	0.33 729	9.95 833	18
43	9.60 446	9.64 278	0.35 722	9.96 168	9.62 131	9.66 304	0.33 696	9.95 827	17
44	9.60 474	9.64 312	0.35 688	9.96 162	9.62 159	9.66 337	0.33 663	9.95 821	16
45	9.60 503	9.64 346	0.35 654	9.96 157	9.62 186	9.66 371	0.33 629	9.95 815	15
46	9.60 532	9.64 381	0.35 619	9.96 151	9.62 214	9.66 404	0.33 596	9.95 810	14
47	9.60 561	9.64 415	0.35 585	9.96 146	9.62 241	9.66 437	0.33 563	9.95 804	13
48	9.60 589	9.64 449	0.35 551	9.96 140	9.62 268	9.66 470	0.33 530	9.95 798	12
49	9.60 618	9.64 483	0.35 517	9.96 135	9.62 296	9.66 503	0.33 497	9.95 792	11
50	9.60 646	9.64 517	0.35 483	9.96 129	9.62 323	9.66 537	0.33 463	9.95 786	10
51	9.60 675	9.64 552	0.35 448	9.96 123	9.62 350	9.66 570	0.33 430	9.95 780	9
52	9.60 704	9.64 586	0.35 414	9.96 118	9.62 377	9.66 603	0.33 397	9.95 775	8
53	9.60 732	9.64 620	0.35 380	9.96 112	9.62 405	9.66 636	0.33 364	9.95 769	7
54	9.60 761	9.64 654	0.35 346	9.96 107	9.62 432	9.66 669	0.33 331	9.95 763	6
55	9.60 789	9.64 688	0.35 312	9.96 101	9.62 459	9.66 702	0.33 298	9.95 757	5
56	9.60 818	9.64 722	0.35 278	9.96 095	9.62 486	9.66 735	0.33 265	9.95 751	4
57	9.60 846	9.64 756	0.35 244	9.96 090	9.62 513	9.66 768	0.33 232	9.95 745	3
58	9.60 875	9.64 790	0.35 210	9.96 084	9.62 541	9.66 801	0.33 199	9.95 739	2
59	9.60 903	9.64 824	0.35 176	9.96 079	9.62 568	9.66 834	0.33 166	9.95 733	1
60	9.60 931	9.64 858	0.35 142	9.96 073	9.62 595	9.66 867	0.33 133	9.95 728	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

66°

65°

TABLE IV. — LOGARITHMIC SINES, COSINES,

25°

26°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.62 595	9.66 867	0.33 133	9.95 728	9.64 184	9.68 818	0.31 182	9.95 366	60
1	9.62 622	9.66 900	0.33 100	9.95 722	9.64 210	9.68 850	0.31 150	9.95 360	59
2	9.62 649	9.66 933	0.33 067	9.95 716	9.64 236	9.68 882	0.31 118	9.95 354	58
3	9.62 676	9.66 966	0.33 034	9.95 710	9.64 262	9.68 914	0.31 086	9.95 348	57
4	9.62 703	9.66 999	0.33 001	9.95 704	9.64 288	9.68 946	0.31 054	9.95 341	56
5	9.62 730	9.67 032	0.32 968	9.95 698	9.64 313	9.68 978	0.31 022	9.95 335	55
6	9.62 757	9.67 065	0.32 935	9.95 692	9.64 339	9.69 010	0.30 990	9.95 329	54
7	9.62 784	9.67 098	0.32 902	9.95 686	9.64 365	9.69 042	0.30 958	9.95 323	53
8	9.62 811	9.67 131	0.32 869	9.95 680	9.64 391	9.69 074	0.30 926	9.95 317	52
9	9.62 838	9.67 163	0.32 837	9.95 674	9.64 417	9.69 106	0.30 894	9.95 310	51
10	9.62 865	9.67 196	0.32 804	9.95 668	9.64 442	9.69 138	0.30 862	9.95 304	50
11	9.62 892	9.67 229	0.32 771	9.95 663	9.64 468	9.69 170	0.30 830	9.95 298	49
12	9.62 918	9.67 262	0.32 738	9.95 657	9.64 494	9.69 202	0.30 798	9.95 292	48
13	9.62 945	9.67 295	0.32 705	9.95 651	9.64 519	9.69 234	0.30 766	9.95 286	47
14	9.62 972	9.67 327	0.32 673	9.95 645	9.64 545	9.69 266	0.30 734	9.95 279	46
15	9.62 999	9.67 360	0.32 640	9.95 639	9.64 571	9.69 298	0.30 702	9.95 273	45
16	9.63 026	9.67 393	0.32 607	9.95 633	9.64 596	9.69 329	0.30 671	9.95 267	44
17	9.63 052	9.67 426	0.32 574	9.95 627	9.64 622	9.69 361	0.30 639	9.95 261	43
18	9.63 079	9.67 458	0.32 542	9.95 621	9.64 647	9.69 393	0.30 607	9.95 254	42
19	9.63 106	9.67 491	0.32 509	9.95 615	9.64 673	9.69 425	0.30 575	9.95 248	41
20	9.63 133	9.67 524	0.32 476	9.95 609	9.64 698	9.69 457	0.30 543	9.95 242	40
21	9.63 159	9.67 556	0.32 444	9.95 603	9.64 724	9.69 488	0.30 512	9.95 236	39
22	9.63 186	9.67 589	0.32 411	9.95 597	9.64 749	9.69 520	0.30 480	9.95 229	38
23	9.63 213	9.67 622	0.32 378	9.95 591	9.64 775	9.69 552	0.30 448	9.95 223	37
24	9.63 239	9.67 654	0.32 346	9.95 585	9.64 800	9.69 584	0.30 416	9.95 217	36
25	9.63 266	9.67 687	0.32 313	9.95 579	9.64 826	9.69 615	0.30 385	9.95 211	35
26	9.63 292	9.67 719	0.32 281	9.95 573	9.64 851	9.69 647	0.30 353	9.95 204	34
27	9.63 319	9.67 752	0.32 248	9.95 567	9.64 877	9.69 679	0.30 321	9.95 198	33
28	9.63 345	9.67 785	0.32 215	9.95 561	9.64 902	9.69 710	0.30 290	9.95 192	32
29	9.63 372	9.67 817	0.32 183	9.95 555	9.64 927	9.69 742	0.30 258	9.95 185	31
30	9.63 398	9.67 850	0.32 150	9.95 549	9.64 953	9.69 774	0.30 226	9.95 179	30
31	9.63 425	9.67 882	0.32 118	9.95 543	9.64 978	9.69 805	0.30 195	9.95 173	29
32	9.63 451	9.67 915	0.32 085	9.95 537	9.65 003	9.69 837	0.30 163	9.95 167	28
33	9.63 478	9.67 947	0.32 053	9.95 531	9.65 029	9.69 868	0.30 132	9.95 160	27
34	9.63 504	9.67 980	0.32 020	9.95 525	9.65 054	9.69 900	0.30 100	9.95 154	26
35	9.63 531	9.68 012	0.31 988	9.95 519	9.65 079	9.69 932	0.30 068	9.95 148	25
36	9.63 557	9.68 044	0.31 956	9.95 513	9.65 104	9.69 963	0.30 037	9.95 141	24
37	9.63 583	9.68 077	0.31 923	9.95 507	9.65 130	9.69 995	0.30 005	9.95 135	23
38	9.63 610	9.68 109	0.31 891	9.95 500	9.65 155	9.70 026	0.29 974	9.95 129	22
39	9.63 636	9.68 142	0.31 858	9.95 494	9.65 180	9.70 058	0.29 942	9.95 122	21
40	9.63 662	9.68 174	0.31 826	9.95 488	9.65 205	9.70 089	0.29 911	9.95 116	20
41	9.63 689	9.68 206	0.31 794	9.95 482	9.65 230	9.70 121	0.29 879	9.95 110	19
42	9.63 715	9.68 239	0.31 761	9.95 476	9.65 255	9.70 152	0.29 848	9.95 103	18
43	9.63 741	9.68 271	0.31 729	9.95 470	9.65 281	9.70 184	0.29 816	9.95 097	17
44	9.63 767	9.68 303	0.31 697	9.95 464	9.65 306	9.70 215	0.29 785	9.95 090	16
45	9.63 794	9.68 336	0.31 664	9.95 458	9.65 331	9.70 247	0.29 753	9.95 084	15
46	9.63 820	9.68 368	0.31 632	9.95 452	9.65 356	9.70 278	0.29 722	9.95 078	14
47	9.63 846	9.68 400	0.31 600	9.95 446	9.65 381	9.70 309	0.29 691	9.95 071	13
48	9.63 872	9.68 432	0.31 568	9.95 440	9.65 406	9.70 341	0.29 659	9.95 065	12
49	9.63 898	9.68 465	0.31 535	9.95 434	9.65 431	9.70 372	0.29 628	9.95 059	11
50	9.63 924	9.68 497	0.31 503	9.95 427	9.65 456	9.70 404	0.29 596	9.95 052	10
51	9.63 950	9.68 529	0.31 471	9.95 421	9.65 481	9.70 435	0.29 565	9.95 046	9
52	9.63 976	9.68 561	0.31 439	9.95 415	9.65 506	9.70 466	0.29 534	9.95 039	8
53	9.64 002	9.68 593	0.31 407	9.95 409	9.65 531	9.70 498	0.29 502	9.95 033	7
54	9.64 028	9.68 626	0.31 374	9.95 403	9.65 556	9.70 529	0.29 471	9.95 027	6
55	9.64 054	9.68 658	0.31 342	9.95 397	9.65 580	9.70 560	0.29 440	9.95 020	5
56	9.64 080	9.68 690	0.31 310	9.95 391	9.65 605	9.70 592	0.29 408	9.95 014	4
57	9.64 106	9.68 722	0.31 278	9.95 384	9.65 630	9.70 623	0.29 377	9.95 007	3
58	9.64 132	9.68 754	0.31 246	9.95 378	9.65 655	9.70 654	0.29 346	9.95 001	2
59	9.64 158	9.68 786	0.31 214	9.95 372	9.65 680	9.70 685	0.29 315	9.94 995	1
60	9.64 184	9.68 818	0.31 182	9.95 366	9.65 705	9.70 717	0.29 283	9.94 988	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

64°

63°

TANGENTS AND COTANGENTS

27°

28°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.65 705	9.70 717	0.29 283	9.94 988	9.67 161	9.72 567	0.27 433	9.94 593	60
1	9.65 729	9.70 748	0.29 252	9.94 982	9.67 185	9.72 598	0.27 402	9.94 587	59
2	9.65 754	9.70 779	0.29 221	9.94 975	9.67 208	9.72 628	0.27 372	9.94 580	58
3	9.65 779	9.70 810	0.29 190	9.94 969	9.67 232	9.72 659	0.27 341	9.94 573	57
4	9.65 804	9.70 841	0.29 159	9.94 962	9.67 256	9.72 689	0.27 311	9.94 567	56
5	9.65 828	9.70 873	0.29 127	9.94 956	9.67 280	9.72 720	0.27 280	9.94 560	55
6	9.65 853	9.70 904	0.29 096	9.94 949	9.67 303	9.72 750	0.27 250	9.94 553	54
7	9.65 878	9.70 935	0.29 065	9.94 943	9.67 327	9.72 780	0.27 220	9.94 546	53
8	9.65 902	9.70 966	0.29 034	9.94 936	9.67 350	9.72 811	0.27 189	9.94 540	52
9	9.65 927	9.70 997	0.29 003	9.94 930	9.67 374	9.72 841	0.27 159	9.94 533	51
10	9.65 952	9.71 028	0.28 972	9.94 923	9.67 398	9.72 872	0.27 128	9.94 526	50
11	9.65 976	9.71 059	0.28 941	9.94 917	9.67 421	9.72 902	0.27 098	9.94 519	49
12	9.66 001	9.71 090	0.28 910	9.94 911	9.67 445	9.72 932	0.27 068	9.94 513	48
13	9.66 025	9.71 121	0.28 879	9.94 904	9.67 468	9.72 963	0.27 037	9.94 506	47
14	9.66 050	9.71 153	0.28 847	9.94 898	9.67 492	9.72 993	0.27 007	9.94 499	46
15	9.66 075	9.71 184	0.28 816	9.94 891	9.67 515	9.73 023	0.26 977	9.94 492	45
16	9.66 099	9.71 215	0.28 785	9.94 885	9.67 539	9.73 054	0.26 946	9.94 485	44
17	9.66 124	9.71 246	0.28 754	9.94 878	9.67 562	9.73 084	0.26 916	9.94 479	43
18	9.66 148	9.71 277	0.28 723	9.94 871	9.67 586	9.73 114	0.26 886	9.94 472	42
19	9.66 173	9.71 308	0.28 692	9.94 865	9.67 609	9.73 144	0.26 856	9.94 465	41
20	9.66 197	9.71 339	0.28 661	9.94 858	9.67 633	9.73 175	0.26 825	9.94 458	40
21	9.66 221	9.71 370	0.28 630	9.94 852	9.67 656	9.73 205	0.26 795	9.94 451	39
22	9.66 246	9.71 401	0.28 599	9.94 845	9.67 680	9.73 235	0.26 765	9.94 445	38
23	9.66 270	9.71 431	0.28 569	9.94 839	9.67 703	9.73 265	0.26 735	9.94 438	37
24	9.66 295	9.71 462	0.28 538	9.94 832	9.67 726	9.73 295	0.26 705	9.94 431	36
25	9.66 319	9.71 493	0.28 507	9.94 826	9.67 750	9.73 326	0.26 674	9.94 424	35
26	9.66 343	9.71 524	0.28 476	9.94 819	9.67 773	9.73 356	0.26 644	9.94 417	34
27	9.66 368	9.71 555	0.28 445	9.94 813	9.67 796	9.73 386	0.26 614	9.94 410	33
28	9.66 392	9.71 586	0.28 414	9.94 806	9.67 820	9.73 416	0.26 584	9.94 404	32
29	9.66 416	9.71 617	0.28 383	9.94 799	9.67 843	9.73 446	0.26 554	9.94 397	31
30	9.66 441	9.71 648	0.28 352	9.94 793	9.67 866	9.73 476	0.26 524	9.94 390	30
31	9.66 465	9.71 679	0.28 321	9.94 786	9.67 890	9.73 507	0.26 493	9.94 383	29
32	9.66 489	9.71 709	0.28 291	9.94 780	9.67 913	9.73 537	0.26 463	9.94 376	28
33	9.66 513	9.71 740	0.28 260	9.94 773	9.67 936	9.73 567	0.26 433	9.94 369	27
34	9.66 537	9.71 771	0.28 229	9.94 767	9.67 959	9.73 597	0.26 403	9.94 362	26
35	9.66 562	9.71 802	0.28 198	9.94 760	9.67 982	9.73 627	0.26 373	9.94 355	25
36	9.66 586	9.71 833	0.28 167	9.94 753	9.68 006	9.73 657	0.26 343	9.94 349	24
37	9.66 610	9.71 863	0.28 137	9.94 747	9.68 029	9.73 687	0.26 313	9.94 342	23
38	9.66 634	9.71 894	0.28 106	9.94 740	9.68 052	9.73 717	0.26 283	9.94 335	22
39	9.66 658	9.71 925	0.28 075	9.94 734	9.68 075	9.73 747	0.26 253	9.94 328	21
40	9.66 682	9.71 955	0.28 045	9.94 727	9.68 098	9.73 777	0.26 223	9.94 321	20
41	9.66 706	9.71 986	0.28 014	9.94 720	9.68 121	9.73 807	0.26 193	9.94 314	19
42	9.66 731	9.72 017	0.27 983	9.94 714	9.68 144	9.73 837	0.26 163	9.94 307	18
43	9.66 755	9.72 048	0.27 952	9.94 707	9.68 167	9.73 867	0.26 133	9.94 300	17
44	9.66 779	9.72 078	0.27 922	9.94 700	9.68 190	9.73 897	0.26 103	9.94 293	16
45	9.66 803	9.72 109	0.27 891	9.94 694	9.68 213	9.73 927	0.26 073	9.94 286	15
46	9.66 827	9.72 140	0.27 860	9.94 687	9.68 237	9.73 957	0.26 043	9.94 279	14
47	9.66 851	9.72 170	0.27 830	9.94 680	9.68 260	9.73 987	0.26 013	9.94 273	13
48	9.66 875	9.72 201	0.27 799	9.94 674	9.68 283	9.74 017	0.25 983	9.94 266	12
49	9.66 899	9.72 231	0.27 769	9.94 667	9.68 305	9.74 047	0.25 953	9.94 259	11
50	9.66 922	9.72 262	0.27 738	9.94 660	9.68 328	9.74 077	0.25 923	9.94 252	10
51	9.66 946	9.72 293	0.27 707	9.94 654	9.68 351	9.74 107	0.25 893	9.94 245	9
52	9.66 970	9.72 323	0.27 677	9.94 647	9.68 374	9.74 137	0.25 863	9.94 238	8
53	9.66 994	9.72 354	0.27 646	9.94 640	9.68 397	9.74 166	0.25 834	9.94 231	7
54	9.67 018	9.72 384	0.27 616	9.94 634	9.68 420	9.74 196	0.25 804	9.94 224	6
55	9.67 042	9.72 415	0.27 585	9.94 627	9.68 443	9.74 226	0.25 774	9.94 217	5
56	9.67 066	9.72 445	0.27 555	9.94 620	9.68 466	9.74 256	0.25 744	9.94 210	4
57	9.67 090	9.72 476	0.27 524	9.94 614	9.68 489	9.74 286	0.25 714	9.94 203	3
58	9.67 113	9.72 506	0.27 494	9.94 607	9.68 512	9.74 316	0.25 684	9.94 196	2
59	9.67 137	9.72 537	0.27 463	9.94 600	9.68 534	9.74 345	0.25 655	9.94 189	1
60	9.67 161	9.72 567	0.27 433	9.94 593	9.68 557	9.74 375	0.25 625	9.94 182	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

62°

61°

TABLE IV. — LOGARITHMIC SINES, COSINES,

29°

30°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.68 557	9.74 375	0.25 625	9.94 182	9.69 897	9.76 144	0.23 856	9.93 753	60
1	9.68 580	9.74 405	0.25 595	9.94 175	9.69 919	9.76 173	0.23 827	9.93 746	59
2	9.68 603	9.74 435	0.25 565	9.94 168	9.69 941	9.76 202	0.23 798	9.93 738	58
3	9.68 625	9.74 465	0.25 535	9.94 161	9.69 963	9.76 231	0.23 769	9.93 731	57
4	9.68 648	9.74 494	0.25 506	9.94 154	9.69 984	9.76 261	0.23 739	9.93 724	56
5	9.68 671	9.74 524	0.25 476	9.94 147	9.70 006	9.76 290	0.23 710	9.93 717	55
6	9.68 694	9.74 554	0.25 446	9.94 140	9.70 028	9.76 319	0.23 681	9.93 709	54
7	9.68 716	9.74 583	0.25 417	9.94 133	9.70 050	9.76 348	0.23 652	9.93 702	53
8	9.68 739	9.74 613	0.25 387	9.94 126	9.70 072	9.76 377	0.23 623	9.93 695	52
9	9.68 762	9.74 643	0.25 357	9.94 119	9.70 093	9.76 406	0.23 594	9.93 687	51
10	9.68 784	9.74 673	0.25 327	9.94 112	9.70 115	9.76 435	0.23 565	9.93 680	50
11	9.68 807	9.74 702	0.25 298	9.94 105	9.70 137	9.76 464	0.23 536	9.93 673	49
12	9.68 829	9.74 732	0.25 268	9.94 098	9.70 159	9.76 493	0.23 507	9.93 665	48
13	9.68 852	9.74 762	0.25 238	9.94 090	9.70 180	9.76 522	0.23 478	9.93 658	47
14	9.68 875	9.74 791	0.25 209	9.94 083	9.70 202	9.76 551	0.23 449	9.93 650	46
15	9.68 897	9.74 821	0.25 179	9.94 076	9.70 224	9.76 580	0.23 420	9.93 643	45
16	9.68 920	9.74 851	0.25 149	9.94 069	9.70 245	9.76 609	0.23 391	9.93 636	44
17	9.68 942	9.74 880	0.25 120	9.94 062	9.70 267	9.76 639	0.23 361	9.93 628	43
18	9.68 965	9.74 910	0.25 090	9.94 055	9.70 288	9.76 668	0.23 332	9.93 621	42
19	9.68 987	9.74 939	0.25 061	9.94 048	9.70 310	9.76 697	0.23 303	9.93 614	41
20	9.69 010	9.74 969	0.25 031	9.94 041	9.70 332	9.76 725	0.23 275	9.93 606	40
21	9.69 032	9.74 998	0.25 002	9.94 034	9.70 353	9.76 754	0.23 246	9.93 599	39
22	9.69 055	9.75 028	0.24 972	9.94 027	9.70 375	9.76 783	0.23 217	9.93 591	38
23	9.69 077	9.75 058	0.24 942	9.94 020	9.70 396	9.76 812	0.23 188	9.93 584	37
24	9.69 100	9.75 087	0.24 913	9.94 012	9.70 418	9.76 841	0.23 159	9.93 577	36
25	9.69 122	9.75 117	0.24 883	9.94 005	9.70 439	9.76 870	0.23 130	9.93 569	35
26	9.69 144	9.75 146	0.24 854	9.93 998	9.70 461	9.76 899	0.23 101	9.93 562	34
27	9.69 167	9.75 176	0.24 824	9.93 991	9.70 482	9.76 928	0.23 072	9.93 554	33
28	9.69 189	9.75 205	0.24 795	9.93 984	9.70 504	9.76 957	0.23 043	9.93 547	32
29	9.69 212	9.75 235	0.24 765	9.93 977	9.70 525	9.76 986	0.23 014	9.93 539	31
30	9.69 234	9.75 264	0.24 736	9.93 970	9.70 547	9.77 015	0.22 985	9.93 532	30
31	9.69 256	9.75 294	0.24 706	9.93 963	9.70 568	9.77 044	0.22 956	9.93 525	29
32	9.69 279	9.75 323	0.24 677	9.93 955	9.70 590	9.77 073	0.22 927	9.93 517	28
33	9.69 301	9.75 353	0.24 647	9.93 948	9.70 611	9.77 101	0.22 899	9.93 510	27
34	9.69 323	9.75 382	0.24 618	9.93 941	9.70 633	9.77 130	0.22 870	9.93 502	26
35	9.69 345	9.75 411	0.24 589	9.93 934	9.70 654	9.77 159	0.22 841	9.93 495	25
36	9.69 368	9.75 441	0.24 559	9.93 927	9.70 675	9.77 188	0.22 812	9.93 487	24
37	9.69 390	9.75 470	0.24 530	9.93 920	9.70 697	9.77 217	0.22 783	9.93 480	23
38	9.69 412	9.75 500	0.24 500	9.93 912	9.70 718	9.77 246	0.22 754	9.93 472	22
39	9.69 434	9.75 529	0.24 471	9.93 905	9.70 739	9.77 274	0.22 726	9.93 465	21
40	9.69 456	9.75 558	0.24 442	9.93 898	9.70 761	9.77 303	0.22 697	9.93 457	20
41	9.69 479	9.75 588	0.24 412	9.93 891	9.70 782	9.77 332	0.22 668	9.93 450	19
42	9.69 501	9.75 617	0.24 383	9.93 884	9.70 803	9.77 361	0.22 639	9.93 442	18
43	9.69 523	9.75 647	0.24 353	9.93 876	9.70 824	9.77 390	0.22 610	9.93 435	17
44	9.69 545	9.75 676	0.24 324	9.93 869	9.70 846	9.77 418	0.22 582	9.93 427	16
45	9.69 567	9.75 705	0.24 295	9.93 862	9.70 867	9.77 447	0.22 553	9.93 420	15
46	9.69 589	9.75 735	0.24 265	9.93 855	9.70 888	9.77 476	0.22 524	9.93 412	14
47	9.69 611	9.75 764	0.24 236	9.93 847	9.70 909	9.77 505	0.22 495	9.93 405	13
48	9.69 633	9.75 793	0.24 207	9.93 840	9.70 931	9.77 533	0.22 467	9.93 397	12
49	9.69 655	9.75 822	0.24 178	9.93 833	9.70 952	9.77 562	0.22 438	9.93 390	11
50	9.69 677	9.75 852	0.24 148	9.93 826	9.70 973	9.77 591	0.22 409	9.93 382	10
51	9.69 699	9.75 881	0.24 119	9.93 819	9.70 994	9.77 619	0.22 381	9.93 375	9
52	9.69 721	9.75 910	0.24 090	9.93 811	9.71 015	9.77 648	0.22 352	9.93 367	8
53	9.69 743	9.75 939	0.24 061	9.93 804	9.71 036	9.77 677	0.22 323	9.93 360	7
54	9.69 765	9.75 969	0.24 031	9.93 797	9.71 058	9.77 706	0.22 294	9.93 352	6
55	9.69 787	9.75 998	0.24 002	9.93 789	9.71 079	9.77 734	0.22 266	9.93 344	5
56	9.69 809	9.76 027	0.23 973	9.93 782	9.71 100	9.77 763	0.22 237	9.93 337	4
57	9.69 831	9.76 056	0.23 944	9.93 775	9.71 121	9.77 791	0.22 209	9.93 329	3
58	9.69 853	9.76 086	0.23 914	9.93 768	9.71 142	9.77 820	0.22 180	9.93 322	2
59	9.69 875	9.76 115	0.23 885	9.93 760	9.71 163	9.77 849	0.22 151	9.93 314	1
60	9.69 897	9.76 144	0.23 856	9.93 753	9.71 184	9.77 877	0.22 123	9.93 307	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

60°

59°

TANGENTS AND COTANGENTS

31°

32°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.71 184	9.77 877	0.22 123	9.93 307	9.72 421	9.79 579	0.20 421	9.92 842	60
1	9.71 205	9.77 906	0.22 094	9.93 299	9.72 441	9.79 607	0.20 393	9.92 834	59
2	9.71 226	9.77 935	0.22 065	9.93 291	9.72 461	9.79 635	0.20 365	9.92 826	58
3	9.71 247	9.77 963	0.22 037	9.93 284	9.72 482	9.79 663	0.20 337	9.92 818	57
4	9.71 268	9.77 992	0.22 008	9.93 276	9.72 502	9.79 691	0.20 309	9.92 810	56
5	9.71 289	9.78 020	0.21 980	9.93 269	9.72 522	9.79 719	0.20 281	9.92 803	55
6	9.71 310	9.78 049	0.21 951	9.93 261	9.72 542	9.79 747	0.20 253	9.92 795	54
7	9.71 331	9.78 077	0.21 923	9.93 253	9.72 562	9.79 776	0.20 224	9.92 787	53
8	9.71 352	9.78 106	0.21 894	9.93 246	9.72 582	9.79 804	0.20 196	9.92 779	52
9	9.71 373	9.78 135	0.21 865	9.93 238	9.72 602	9.79 832	0.20 168	9.92 771	51
10	9.71 393	9.78 163	0.21 837	9.93 230	9.72 622	9.79 860	0.20 140	9.92 763	50
11	9.71 414	9.78 192	0.21 808	9.93 223	9.72 643	9.79 888	0.20 112	9.92 755	49
12	9.71 435	9.78 220	0.21 780	9.93 215	9.72 663	9.79 916	0.20 084	9.92 747	48
13	9.71 456	9.78 249	0.21 751	9.93 207	9.72 683	9.79 944	0.20 056	9.92 739	47
14	9.71 477	9.78 277	0.21 723	9.93 200	9.72 703	9.79 972	0.20 028	9.92 731	46
15	9.71 498	9.78 306	0.21 694	9.93 192	9.72 723	9.80 000	0.20 000	9.92 723	45
16	9.71 519	9.78 334	0.21 666	9.93 184	9.72 743	9.80 028	0.19 972	9.92 715	44
17	9.71 539	9.78 363	0.21 637	9.93 177	9.72 763	9.80 056	0.19 944	9.92 707	43
18	9.71 560	9.78 391	0.21 609	9.93 169	9.72 783	9.80 084	0.19 916	9.92 699	42
19	9.71 581	9.78 419	0.21 581	9.93 161	9.72 803	9.80 112	0.19 888	9.92 691	41
20	9.71 602	9.78 448	0.21 552	9.93 154	9.72 823	9.80 140	0.19 860	9.92 683	40
21	9.71 622	9.78 476	0.21 524	9.93 146	9.72 843	9.80 168	0.19 832	9.92 675	39
22	9.71 643	9.78 505	0.21 495	9.93 138	9.72 863	9.80 195	0.19 805	9.92 667	38
23	9.71 664	9.78 533	0.21 467	9.93 131	9.72 883	9.80 223	0.19 777	9.92 659	37
24	9.71 685	9.78 562	0.21 438	9.93 123	9.72 902	9.80 251	0.19 749	9.92 651	36
25	9.71 705	9.78 590	0.21 410	9.93 115	9.72 922	9.80 279	0.19 721	9.92 643	35
26	9.71 726	9.78 618	0.21 382	9.93 108	9.72 942	9.80 307	0.19 693	9.92 635	34
27	9.71 747	9.78 647	0.21 353	9.93 100	9.72 962	9.80 335	0.19 665	9.92 627	33
28	9.71 767	9.78 675	0.21 325	9.93 092	9.72 982	9.80 363	0.19 637	9.92 619	32
29	9.71 788	9.78 704	0.21 296	9.93 084	9.73 002	9.80 391	0.19 609	9.92 611	31
30	9.71 809	9.78 732	0.21 268	9.93 077	9.73 022	9.80 419	0.19 581	9.92 603	30
31	9.71 829	9.78 760	0.21 240	9.93 069	9.73 041	9.80 447	0.19 553	9.92 595	29
32	9.71 850	9.78 789	0.21 211	9.93 061	9.73 061	9.80 474	0.19 526	9.92 587	28
33	9.71 870	9.78 817	0.21 183	9.93 053	9.73 081	9.80 502	0.19 498	9.92 579	27
34	9.71 891	9.78 845	0.21 155	9.93 046	9.73 101	9.80 530	0.19 470	9.92 571	26
35	9.71 911	9.78 874	0.21 126	9.93 038	9.73 121	9.80 558	0.19 442	9.92 563	25
36	9.71 932	9.78 902	0.21 098	9.93 030	9.73 140	9.80 586	0.19 414	9.92 555	24
37	9.71 952	9.78 930	0.21 070	9.93 022	9.73 160	9.80 614	0.19 386	9.92 546	23
38	9.71 973	9.78 959	0.21 041	9.93 014	9.73 180	9.80 642	0.19 358	9.92 538	22
39	9.71 994	9.78 987	0.21 013	9.93 007	9.73 200	9.80 669	0.19 331	9.92 530	21
40	9.72 014	9.79 015	0.20 985	9.92 999	9.73 219	9.80 697	0.19 303	9.92 522	20
41	9.72 034	9.79 043	0.20 957	9.92 991	9.73 239	9.80 725	0.19 275	9.92 514	19
42	9.72 055	9.79 072	0.20 928	9.92 983	9.73 259	9.80 753	0.19 247	9.92 506	18
43	9.72 075	9.79 100	0.20 900	9.92 976	9.73 278	9.80 781	0.19 219	9.92 498	17
44	9.72 096	9.79 128	0.20 872	9.92 968	9.73 298	9.80 808	0.19 192	9.92 490	16
45	9.72 116	9.79 156	0.20 844	9.92 960	9.73 318	9.80 836	0.19 164	9.92 482	15
46	9.72 137	9.79 185	0.20 815	9.92 952	9.73 337	9.80 864	0.19 136	9.92 473	14
47	9.72 157	9.79 213	0.20 787	9.92 944	9.73 357	9.80 892	0.19 108	9.92 465	13
48	9.72 177	9.79 241	0.20 759	9.92 936	9.73 377	9.80 919	0.19 081	9.92 457	12
49	9.72 198	9.79 269	0.20 731	9.92 929	9.73 396	9.80 947	0.19 053	9.92 449	11
50	9.72 218	9.79 297	0.20 703	9.92 921	9.73 416	9.80 975	0.19 025	9.92 441	10
51	9.72 238	9.79 326	0.20 674	9.92 913	9.73 435	9.81 003	0.18 997	9.92 433	9
52	9.72 259	9.79 354	0.20 646	9.92 905	9.73 455	9.81 030	0.18 970	9.92 425	8
53	9.72 279	9.79 382	0.20 618	9.92 897	9.73 474	9.81 058	0.18 942	9.92 416	7
54	9.72 299	9.79 410	0.20 590	9.92 889	9.73 494	9.81 086	0.18 914	9.92 408	6
55	9.72 320	9.79 438	0.20 562	9.92 881	9.73 513	9.81 113	0.18 887	9.92 400	5
56	9.72 340	9.79 466	0.20 534	9.92 874	9.73 533	9.81 141	0.18 859	9.92 392	4
57	9.72 360	9.79 495	0.20 505	9.92 866	9.73 552	9.81 169	0.18 831	9.92 384	3
58	9.72 381	9.79 523	0.20 477	9.92 858	9.73 572	9.81 196	0.18 804	9.92 376	2
59	9.72 401	9.79 551	0.20 449	9.92 850	9.73 591	9.81 224	0.18 776	9.92 367	1
60	9.72 421	9.79 579	0.20 421	9.92 842	9.73 611	9.81 252	0.18 748	9.92 359	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

58°

57°

33°

34°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.73 611	9.81 252	0.18 748	9.92 259	9.74 756	9.82 899	0.17 101	9.91 857	60
1	9.73 630	9.81 279	0.18 721	9.92 351	9.74 775	9.82 926	0.17 074	9.91 849	59
2	9.73 650	9.81 307	0.18 693	9.92 343	9.74 794	9.82 953	0.17 047	9.91 840	58
3	9.73 669	9.81 335	0.18 665	9.92 335	9.74 812	9.82 980	0.17 020	9.91 832	57
4	9.73 689	9.81 362	0.18 638	9.92 326	9.74 831	9.83 008	0.16 992	9.91 823	56
5	9.73 708	9.81 390	0.18 610	9.92 318	9.74 850	9.83 035	0.16 965	9.91 815	55
6	9.73 727	9.81 418	0.18 582	9.92 310	9.74 868	9.83 062	0.16 938	9.91 806	54
7	9.73 747	9.81 445	0.18 555	9.92 302	9.74 887	9.83 089	0.16 911	9.91 798	53
8	9.73 766	9.81 473	0.18 527	9.92 293	9.74 906	9.83 117	0.16 883	9.91 789	52
9	9.73 785	9.81 500	0.18 500	9.92 285	9.74 924	9.83 144	0.16 856	9.91 781	51
10	9.73 805	9.81 528	0.18 472	9.92 277	9.74 943	9.83 171	0.16 829	9.91 772	50
11	9.73 824	9.81 556	0.18 444	9.92 269	9.74 961	9.83 198	0.16 802	9.91 763	49
12	9.73 843	9.81 583	0.18 417	9.92 260	9.74 980	9.83 225	0.16 775	9.91 755	48
13	9.73 863	9.81 611	0.18 389	9.92 252	9.74 999	9.83 252	0.16 748	9.91 746	47
14	9.73 882	9.81 638	0.18 362	9.92 244	9.75 017	9.83 280	0.16 720	9.91 738	46
15	9.73 901	9.81 666	0.18 334	9.92 235	9.75 036	9.83 307	0.16 693	9.91 729	45
16	9.73 921	9.81 693	0.18 307	9.92 227	9.75 054	9.83 334	0.16 666	9.91 720	44
17	9.73 940	9.81 721	0.18 279	9.92 219	9.75 073	9.83 361	0.16 639	9.91 712	43
18	9.73 959	9.81 748	0.18 252	9.92 211	9.75 091	9.83 388	0.16 612	9.91 703	42
19	9.73 978	9.81 776	0.18 224	9.92 202	9.75 110	9.83 415	0.16 585	9.91 695	41
20	9.73 997	9.81 803	0.18 197	9.92 194	9.75 128	9.83 442	0.16 558	9.91 686	40
21	9.74 017	9.81 831	0.18 169	9.92 186	9.75 147	9.83 470	0.16 530	9.91 677	39
22	9.74 036	9.81 858	0.18 142	9.92 177	9.75 165	9.83 497	0.16 503	9.91 669	38
23	9.74 055	9.81 886	0.18 114	9.92 169	9.75 184	9.83 524	0.16 476	9.91 660	37
24	9.74 074	9.81 913	0.18 087	9.92 161	9.75 202	9.83 551	0.16 449	9.91 651	36
25	9.74 093	9.81 941	0.18 059	9.92 152	9.75 221	9.83 578	0.16 422	9.91 643	35
26	9.74 113	9.81 968	0.18 032	9.92 144	9.75 239	9.83 605	0.16 395	9.91 634	34
27	9.74 132	9.81 996	0.18 004	9.92 136	9.75 258	9.83 632	0.16 368	9.91 625	33
28	9.74 151	9.82 023	0.17 977	9.92 127	9.75 276	9.83 659	0.16 341	9.91 617	32
29	9.74 170	9.82 051	0.17 949	9.92 119	9.75 294	9.83 686	0.16 314	9.91 608	31
30	9.74 189	9.82 078	0.17 922	9.92 111	9.75 313	9.83 713	0.16 287	9.91 599	30
31	9.74 208	9.82 106	0.17 894	9.92 102	9.75 331	9.83 740	0.16 260	9.91 591	29
32	9.74 227	9.82 133	0.17 867	9.92 094	9.75 350	9.83 768	0.16 232	9.91 582	28
33	9.74 246	9.82 161	0.17 839	9.92 086	9.75 368	9.83 795	0.16 205	9.91 573	27
34	9.74 265	9.82 188	0.17 812	9.92 077	9.75 386	9.83 822	0.16 178	9.91 565	26
35	9.74 284	9.82 215	0.17 785	9.92 069	9.75 405	9.83 849	0.16 151	9.91 556	25
36	9.74 303	9.82 243	0.17 757	9.92 060	9.75 423	9.83 876	0.16 124	9.91 547	24
37	9.74 322	9.82 270	0.17 730	9.92 052	9.75 441	9.83 903	0.16 097	9.91 538	23
38	9.74 341	9.82 298	0.17 702	9.92 044	9.75 459	9.83 930	0.16 070	9.91 530	22
39	9.74 360	9.82 325	0.17 675	9.92 035	9.75 478	9.83 957	0.16 043	9.91 521	21
40	9.74 379	9.82 352	0.17 648	9.92 027	9.75 496	9.83 984	0.16 016	9.91 512	20
41	9.74 398	9.82 380	0.17 620	9.92 018	9.75 514	9.84 011	0.15 989	9.91 504	19
42	9.74 417	9.82 407	0.17 593	9.92 010	9.75 533	9.84 038	0.15 962	9.91 495	18
43	9.74 436	9.82 435	0.17 565	9.92 002	9.75 551	9.84 065	0.15 935	9.91 486	17
44	9.74 455	9.82 462	0.17 538	9.91 993	9.75 569	9.84 092	0.15 908	9.91 477	16
45	9.74 474	9.82 489	0.17 511	9.91 985	9.75 587	9.84 119	0.15 881	9.91 469	15
46	9.74 493	9.82 517	0.17 483	9.91 976	9.75 605	9.84 146	0.15 854	9.91 460	14
47	9.74 512	9.82 544	0.17 456	9.91 968	9.75 624	9.84 173	0.15 827	9.91 451	13
48	9.74 531	9.82 571	0.17 429	9.91 959	9.75 642	9.84 200	0.15 800	9.91 442	12
49	9.74 549	9.82 599	0.17 401	9.91 951	9.75 660	9.84 227	0.15 773	9.91 433	11
50	9.74 568	9.82 626	0.17 374	9.91 942	9.75 678	9.84 254	0.15 746	9.91 425	10
51	9.74 587	9.82 653	0.17 347	9.91 934	9.75 696	9.84 280	0.15 720	9.91 416	9
52	9.74 606	9.82 681	0.17 319	9.91 925	9.75 714	9.84 307	0.15 693	9.91 407	8
53	9.74 625	9.82 708	0.17 292	9.91 917	9.75 733	9.84 334	0.15 666	9.91 398	7
54	9.74 644	9.82 735	0.17 265	9.91 908	9.75 751	9.84 361	0.15 639	9.91 389	6
55	9.74 662	9.82 762	0.17 238	9.91 900	9.75 769	9.84 388	0.15 612	9.91 381	5
56	9.74 681	9.82 790	0.17 210	9.91 891	9.75 787	9.84 415	0.15 585	9.91 372	4
57	9.74 700	9.82 817	0.17 183	9.91 883	9.75 805	9.84 442	0.15 558	9.91 363	3
58	9.74 719	9.82 844	0.17 156	9.91 874	9.75 823	9.84 469	0.15 531	9.91 354	2
59	9.74 737	9.82 871	0.17 129	9.91 866	9.75 841	9.84 496	0.15 504	9.91 345	1
60	9.74 756	9.82 899	0.17 101	9.91 857	9.75 859	9.84 523	0.15 477	9.91 336	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

56°

55°

TANGENTS AND COTANGENTS

35°

36°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.75 859	9.84 523	0.15 477	9.91 336	9.76 922	9.86 126	0.13 874	9.90 796	60
1	9.75 877	9.84 550	0.15 450	9.91 328	9.76 939	9.86 153	0.13 847	9.90 787	59
2	9.75 895	9.84 576	0.15 424	9.91 319	9.76 957	9.86 179	0.13 821	9.90 777	58
3	9.75 913	9.84 603	0.15 397	9.91 310	9.76 974	9.86 206	0.13 794	9.90 768	57
4	9.75 931	9.84 630	0.15 370	9.91 301	9.76 991	9.86 232	0.13 768	9.90 759	56
5	9.75 949	9.84 657	0.15 343	9.91 292	9.77 009	9.86 259	0.13 741	9.90 750	55
6	9.75 967	9.84 684	0.15 316	9.91 283	9.77 026	9.86 285	0.13 715	9.90 741	54
7	9.75 985	9.84 711	0.15 289	9.91 274	9.77 043	9.86 312	0.13 688	9.90 731	53
8	9.76 003	9.84 738	0.15 262	9.91 266	9.77 061	9.86 338	0.13 662	9.90 722	52
9	9.76 021	9.84 764	0.15 236	9.91 257	9.77 078	9.86 365	0.13 635	9.90 713	51
10	9.76 039	9.84 791	0.15 209	9.91 248	9.77 095	9.86 392	0.13 608	9.90 704	50
11	9.76 057	9.84 818	0.15 182	9.91 239	9.77 112	9.86 418	0.13 582	9.90 694	49
12	9.76 075	9.84 845	0.15 155	9.91 230	9.77 130	9.86 445	0.13 555	9.90 685	48
13	9.76 093	9.84 872	0.15 128	9.91 221	9.77 147	9.86 471	0.13 529	9.90 676	47
14	9.76 111	9.84 899	0.15 101	9.91 212	9.77 164	9.86 498	0.13 502	9.90 667	46
15	9.76 129	9.84 925	0.15 075	9.91 203	9.77 181	9.86 524	0.13 476	9.90 657	45
16	9.76 146	9.84 952	0.15 048	9.91 194	9.77 199	9.86 551	0.13 449	9.90 648	44
17	9.76 164	9.84 979	0.15 021	9.91 185	9.77 216	9.86 577	0.13 423	9.90 639	43
18	9.76 182	9.85 006	0.14 994	9.91 176	9.77 233	9.86 603	0.13 397	9.90 630	42
19	9.76 200	9.85 033	0.14 967	9.91 167	9.77 250	9.86 630	0.13 370	9.90 620	41
20	9.76 218	9.85 059	0.14 941	9.91 158	9.77 268	9.86 656	0.13 344	9.90 611	40
21	9.76 236	9.85 086	0.14 914	9.91 149	9.77 285	9.86 683	0.13 317	9.90 602	39
22	9.76 253	9.85 113	0.14 887	9.91 141	9.77 302	9.86 709	0.13 291	9.90 592	38
23	9.76 271	9.85 140	0.14 860	9.91 132	9.77 319	9.86 736	0.13 264	9.90 583	37
24	9.76 289	9.85 166	0.14 834	9.91 123	9.77 336	9.86 762	0.13 238	9.90 574	36
25	9.76 307	9.85 193	0.14 807	9.91 114	9.77 353	9.86 789	0.13 211	9.90 565	35
26	9.76 324	9.85 220	0.14 780	9.91 105	9.77 370	9.86 815	0.13 185	9.90 555	34
27	9.76 342	9.85 247	0.14 753	9.91 096	9.77 387	9.86 842	0.13 158	9.90 546	33
28	9.76 360	9.85 273	0.14 727	9.91 087	9.77 405	9.86 868	0.13 132	9.90 537	32
29	9.76 378	9.85 300	0.14 700	9.91 078	9.77 422	9.86 894	0.13 106	9.90 527	31
30	9.76 395	9.85 327	0.14 673	9.91 069	9.77 439	9.86 921	0.13 079	9.90 518	30
31	9.76 413	9.85 354	0.14 646	9.91 060	9.77 456	9.86 947	0.13 053	9.90 509	29
32	9.76 431	9.85 380	0.14 620	9.91 051	9.77 473	9.86 974	0.13 026	9.90 499	28
33	9.76 448	9.85 407	0.14 593	9.91 042	9.77 490	9.87 000	0.13 000	9.90 490	27
34	9.76 466	9.85 434	0.14 566	9.91 033	9.77 507	9.87 027	0.12 973	9.90 480	26
35	9.76 484	9.85 460	0.14 540	9.91 023	9.77 524	9.87 053	0.12 947	9.90 471	25
36	9.76 501	9.85 487	0.14 513	9.91 014	9.77 541	9.87 079	0.12 921	9.90 462	24
37	9.76 519	9.85 514	0.14 486	9.91 005	9.77 558	9.87 106	0.12 894	9.90 452	23
38	9.76 537	9.85 540	0.14 460	9.90 996	9.77 575	9.87 132	0.12 868	9.90 443	22
39	9.76 554	9.85 567	0.14 433	9.90 987	9.77 592	9.87 158	0.12 842	9.90 434	21
40	9.76 572	9.85 594	0.14 406	9.90 978	9.77 609	9.87 185	0.12 815	9.90 424	20
41	9.76 590	9.85 620	0.14 380	9.90 969	9.77 626	9.87 211	0.12 789	9.90 415	19
42	9.76 607	9.85 647	0.14 353	9.90 960	9.77 643	9.87 238	0.12 762	9.90 405	18
43	9.76 625	9.85 674	0.14 326	9.90 951	9.77 660	9.87 264	0.12 736	9.90 396	17
44	9.76 642	9.85 700	0.14 300	9.90 942	9.77 677	9.87 290	0.12 710	9.90 386	16
45	9.76 660	9.85 727	0.14 273	9.90 933	9.77 694	9.87 317	0.12 683	9.90 377	15
46	9.76 677	9.85 754	0.14 246	9.90 924	9.77 711	9.87 343	0.12 657	9.90 368	14
47	9.76 695	9.85 780	0.14 220	9.90 915	9.77 728	9.87 369	0.12 631	9.90 358	13
48	9.76 712	9.85 807	0.14 193	9.90 906	9.77 744	9.87 396	0.12 604	9.90 349	12
49	9.76 730	9.85 834	0.14 166	9.90 896	9.77 761	9.87 422	0.12 578	9.90 339	11
50	9.76 747	9.85 860	0.14 140	9.90 887	9.77 778	9.87 448	0.12 552	9.90 330	10
51	9.76 765	9.85 887	0.14 113	9.90 878	9.77 795	9.87 475	0.12 525	9.90 320	9
52	9.76 782	9.85 913	0.14 087	9.90 869	9.77 812	9.87 501	0.12 499	9.90 311	8
53	9.76 800	9.85 940	0.14 060	9.90 860	9.77 829	9.87 527	0.12 473	9.90 301	7
54	9.76 817	9.85 967	0.14 033	9.90 851	9.77 846	9.87 554	0.12 446	9.90 292	6
55	9.76 835	9.85 993	0.14 007	9.90 842	9.77 862	9.87 580	0.12 420	9.90 282	5
56	9.76 852	9.86 020	0.13 980	9.90 832	9.77 879	9.87 606	0.12 394	9.90 273	4
57	9.76 870	9.86 046	0.13 954	9.90 823	9.77 896	9.87 633	0.12 367	9.90 263	3
58	9.76 887	9.86 073	0.13 927	9.90 814	9.77 913	9.87 659	0.12 341	9.90 254	2
59	9.76 904	9.86 100	0.13 900	9.90 805	9.77 930	9.87 685	0.12 315	9.90 244	1
60	9.76 922	9.86 126	0.13 874	9.90 796	9.77 946	9.87 711	0.12 289	9.90 235	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

54°

53°

37°

38°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.77 946	9.87 711	0.12 289	9.90 235	9.78 934	9.89 281	0.10 719	9.89 653	60
1	9.77 963	9.87 738	0.12 262	9.90 225	9.78 950	9.89 307	0.10 693	9.89 643	59
2	9.77 980	9.87 764	0.12 236	9.90 216	9.78 967	9.89 333	0.10 667	9.89 633	58
3	9.77 997	9.87 790	0.12 210	9.90 206	9.78 983	9.89 359	0.10 641	9.89 624	57
4	9.78 013	9.87 817	0.12 183	9.90 197	9.78 999	9.89 385	0.10 615	9.89 614	56
5	9.78 030	9.87 843	0.12 157	9.90 187	9.79 015	9.89 411	0.10 589	9.89 604	55
6	9.78 047	9.87 869	0.12 131	9.90 178	9.79 031	9.89 437	0.10 563	9.89 594	54
7	9.78 063	9.87 895	0.12 105	9.90 168	9.79 047	9.89 463	0.10 537	9.89 584	53
8	9.78 080	9.87 922	0.12 078	9.90 159	9.79 063	9.89 489	0.10 511	9.89 574	52
9	9.78 097	9.87 948	0.12 052	9.90 149	9.79 079	9.89 515	0.10 485	9.89 564	51
10	9.78 113	9.87 974	0.12 026	9.90 139	9.79 095	9.89 541	0.10 459	9.89 554	50
11	9.78 130	9.88 000	0.12 000	9.90 130	9.79 111	9.89 567	0.10 433	9.89 544	49
12	9.78 147	9.88 027	0.11 973	9.90 120	9.79 128	9.89 593	0.10 407	9.89 534	48
13	9.78 163	9.88 053	0.11 947	9.90 111	9.79 144	9.89 619	0.10 381	9.89 524	47
14	9.78 180	9.88 079	0.11 921	9.90 101	9.79 160	9.89 645	0.10 355	9.89 514	46
15	9.78 197	9.88 105	0.11 895	9.90 091	9.79 176	9.89 671	0.10 329	9.89 504	45
16	9.78 213	9.88 131	0.11 869	9.90 082	9.79 192	9.89 697	0.10 303	9.89 495	44
17	9.78 230	9.88 158	0.11 842	9.90 072	9.79 208	9.89 723	0.10 277	9.89 485	43
18	9.78 246	9.88 184	0.11 816	9.90 063	9.79 224	9.89 749	0.10 251	9.89 475	42
19	9.78 263	9.88 210	0.11 790	9.90 053	9.79 240	9.89 775	0.10 225	9.89 465	41
20	9.78 280	9.88 236	0.11 764	9.90 043	9.79 256	9.89 801	0.10 199	9.89 455	40
21	9.78 296	9.88 262	0.11 738	9.90 034	9.79 272	9.89 827	0.10 173	9.89 445	39
22	9.78 313	9.88 289	0.11 711	9.90 024	9.79 288	9.89 853	0.10 147	9.89 435	38
23	9.78 329	9.88 315	0.11 685	9.90 014	9.79 304	9.89 879	0.10 121	9.89 425	37
24	9.78 346	9.88 341	0.11 659	9.90 005	9.79 319	9.89 905	0.10 095	9.89 415	36
25	9.78 362	9.88 367	0.11 633	9.89 995	9.79 335	9.89 931	0.10 069	9.89 405	35
26	9.78 379	9.88 393	0.11 607	9.89 985	9.79 351	9.89 957	0.10 043	9.89 395	34
27	9.78 395	9.88 420	0.11 580	9.89 976	9.79 367	9.89 983	0.10 017	9.89 385	33
28	9.78 412	9.88 446	0.11 554	9.89 966	9.79 383	9.90 009	0.09 991	9.89 375	32
29	9.78 428	9.88 472	0.11 528	9.89 956	9.79 399	9.90 035	0.09 965	9.89 364	31
30	9.78 445	9.88 498	0.11 502	9.89 947	9.79 415	9.90 061	0.09 939	9.89 354	30
31	9.78 461	9.88 524	0.11 476	9.89 937	9.79 431	9.90 086	0.09 914	9.89 344	29
32	9.78 478	9.88 550	0.11 450	9.89 927	9.79 447	9.90 112	0.09 888	9.89 334	28
33	9.78 494	9.88 577	0.11 423	9.89 918	9.79 463	9.90 138	0.09 862	9.89 324	27
34	9.78 510	9.88 603	0.11 397	9.89 908	9.79 478	9.90 164	0.09 836	9.89 314	26
35	9.78 527	9.88 629	0.11 371	9.89 898	9.79 494	9.90 190	0.09 810	9.89 304	25
36	9.78 543	9.88 655	0.11 345	9.89 888	9.79 510	9.90 216	0.09 784	9.89 294	24
37	9.78 560	9.88 681	0.11 319	9.89 879	9.79 526	9.90 242	0.09 758	9.89 284	23
38	9.78 576	9.88 707	0.11 293	9.89 869	9.79 542	9.90 268	0.09 732	9.89 274	22
39	9.78 592	9.88 733	0.11 267	9.89 859	9.79 558	9.90 294	0.09 706	9.89 264	21
40	9.78 609	9.88 759	0.11 241	9.89 849	9.79 573	9.90 320	0.09 680	9.89 254	20
41	9.78 625	9.88 786	0.11 214	9.89 840	9.79 589	9.90 346	0.09 654	9.89 244	19
42	9.78 642	9.88 812	0.11 188	9.89 830	9.79 605	9.90 371	0.09 629	9.89 233	18
43	9.78 658	9.88 838	0.11 162	9.89 820	9.79 621	9.90 397	0.09 603	9.89 223	17
44	9.78 674	9.88 864	0.11 136	9.89 810	9.79 636	9.90 423	0.09 577	9.89 213	16
45	9.78 691	9.88 890	0.11 110	9.89 801	9.79 652	9.90 449	0.09 551	9.89 203	15
46	9.78 707	9.88 916	0.11 084	9.89 791	9.79 668	9.90 475	0.09 525	9.89 193	14
47	9.78 723	9.88 942	0.11 058	9.89 781	9.79 684	9.90 501	0.09 499	9.89 183	13
48	9.78 739	9.88 968	0.11 032	9.89 771	9.79 699	9.90 527	0.09 473	9.89 173	12
49	9.78 756	9.88 994	0.11 006	9.89 761	9.79 715	9.90 553	0.09 447	9.89 162	11
50	9.78 772	9.89 020	0.10 980	9.89 752	9.79 731	9.90 578	0.09 422	9.89 152	10
51	9.78 788	9.89 046	0.10 954	9.89 742	9.79 746	9.90 604	0.09 396	9.89 142	9
52	9.78 805	9.89 073	0.10 927	9.89 732	9.79 762	9.90 630	0.09 370	9.89 132	8
53	9.78 821	9.89 099	0.10 901	9.89 722	9.79 778	9.90 656	0.09 344	9.89 122	7
54	9.78 837	9.89 125	0.10 875	9.89 712	9.79 793	9.90 682	0.09 318	9.89 112	6
55	9.78 853	9.89 151	0.10 849	9.89 702	9.79 809	9.90 708	0.09 292	9.89 101	5
56	9.78 869	9.89 177	0.10 823	9.89 693	9.79 825	9.90 734	0.09 266	9.89 091	4
57	9.78 886	9.89 203	0.10 797	9.89 683	9.79 840	9.90 759	0.09 241	9.89 081	3
58	9.78 902	9.89 229	0.10 771	9.89 673	9.79 856	9.90 785	0.09 215	9.89 071	2
59	9.78 918	9.89 255	0.10 745	9.89 663	9.79 872	9.90 811	0.09 189	9.89 060	1
60	9.78 934	9.89 281	0.10 719	9.89 653	9.79 887	9.90 837	0.09 163	9.89 050	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

52°

51°

TANGENTS AND COTANGENTS

39°					40°				
'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.79 887	9.90 837	0.09 163	9.89 050	9.80 807	9.92 381	0.07 619	9.88 425	60
1	9.79 903	9.90 863	0.09 137	9.89 040	9.80 822	9.92 407	0.07 593	9.88 415	59
2	9.79 918	9.90 889	0.09 111	9.89 030	9.80 837	9.92 433	0.07 567	9.88 404	58
3	9.79 934	9.90 914	0.09 086	9.89 020	9.80 852	9.92 458	0.07 542	9.88 394	57
4	9.79 950	9.90 940	0.09 060	9.89 009	9.80 867	9.92 484	0.07 516	9.88 383	56
5	9.79 965	9.90 966	0.09 034	9.88 999	9.80 882	9.92 510	0.07 490	9.88 372	55
6	9.79 981	9.90 992	0.09 008	9.88 989	9.80 897	9.92 535	0.07 465	9.88 362	54
7	9.79 996	9.91 018	0.08 982	9.88 978	9.80 912	9.92 561	0.07 439	9.88 351	53
8	9.80 012	9.91 043	0.08 957	9.88 968	9.80 927	9.92 587	0.07 413	9.88 340	52
9	9.80 027	9.91 069	0.08 931	9.88 958	9.80 942	9.92 612	0.07 388	9.88 330	51
10	9.80 043	9.91 095	0.08 905	9.88 948	9.80 957	9.92 638	0.07 362	9.88 319	50
11	9.80 058	9.91 121	0.08 879	9.88 937	9.80 972	9.92 663	0.07 337	9.88 308	49
12	9.80 074	9.91 147	0.08 853	9.88 927	9.80 987	9.92 689	0.07 311	9.88 298	48
13	9.80 089	9.91 172	0.08 828	9.88 917	9.81 002	9.92 715	0.07 285	9.88 287	47
14	9.80 105	9.91 198	0.08 802	9.88 906	9.81 017	9.92 740	0.07 260	9.88 276	46
15	9.80 120	9.91 224	0.08 776	9.88 896	9.81 032	9.92 766	0.07 234	9.88 266	45
16	9.80 136	9.91 250	0.08 750	9.88 886	9.81 047	9.92 792	0.07 208	9.88 255	44
17	9.80 151	9.91 276	0.08 724	9.88 875	9.81 061	9.92 817	0.07 183	9.88 244	43
18	9.80 166	9.91 301	0.08 699	9.88 865	9.81 076	9.92 843	0.07 157	9.88 234	42
19	9.80 182	9.91 327	0.08 673	9.88 855	9.81 091	9.92 868	0.07 132	9.88 223	41
20	9.80 197	9.91 353	0.08 647	9.88 844	9.81 106	9.92 894	0.07 106	9.88 212	40
21	9.80 213	9.91 379	0.08 621	9.88 834	9.81 121	9.92 920	0.07 080	9.88 201	39
22	9.80 228	9.91 404	0.08 596	9.88 824	9.81 136	9.92 945	0.07 055	9.88 191	38
23	9.80 244	9.91 430	0.08 570	9.88 813	9.81 151	9.92 971	0.07 029	9.88 180	37
24	9.80 259	9.91 456	0.08 544	9.88 803	9.81 166	9.92 996	0.07 004	9.88 169	36
25	9.80 274	9.91 482	0.08 518	9.88 793	9.81 180	9.93 022	0.06 978	9.88 158	35
26	9.80 290	9.91 507	0.08 493	9.88 782	9.81 195	9.93 048	0.06 952	9.88 148	34
27	9.80 305	9.91 533	0.08 467	9.88 772	9.81 210	9.93 073	0.06 927	9.88 137	33
28	9.80 320	9.91 559	0.08 441	9.88 761	9.81 225	9.93 099	0.06 901	9.88 126	32
29	9.80 336	9.91 585	0.08 415	9.88 751	9.81 240	9.93 124	0.06 876	9.88 115	31
30	9.80 351	9.91 610	0.08 390	9.88 741	9.81 254	9.93 150	0.06 850	9.88 105	30
31	9.80 366	9.91 636	0.08 364	9.88 730	9.81 269	9.93 175	0.06 825	9.88 094	29
32	9.80 382	9.91 662	0.08 338	9.88 720	9.81 284	9.93 201	0.06 799	9.88 083	28
33	9.80 397	9.91 688	0.08 312	9.88 709	9.81 299	9.93 227	0.06 773	9.88 072	27
34	9.80 412	9.91 713	0.08 287	9.88 699	9.81 314	9.93 252	0.06 748	9.88 061	26
35	9.80 428	9.91 739	0.08 261	9.88 688	9.81 328	9.93 278	0.06 722	9.88 051	25
36	9.80 443	9.91 765	0.08 235	9.88 678	9.81 343	9.93 303	0.06 697	9.88 040	24
37	9.80 458	9.91 791	0.08 209	9.88 668	9.81 358	9.93 329	0.06 671	9.88 029	23
38	9.80 473	9.91 816	0.08 184	9.88 657	9.81 372	9.93 354	0.06 646	9.88 018	22
39	9.80 489	9.91 842	0.08 158	9.88 647	9.81 387	9.93 380	0.06 620	9.88 007	21
40	9.80 504	9.91 868	0.08 132	9.88 636	9.81 402	9.93 406	0.06 594	9.87 996	20
41	9.80 519	9.91 893	0.08 107	9.88 626	9.81 417	9.93 431	0.06 569	9.87 985	19
42	9.80 534	9.91 919	0.08 081	9.88 615	9.81 431	9.93 457	0.06 543	9.87 975	18
43	9.80 550	9.91 945	0.08 055	9.88 605	9.81 446	9.93 482	0.06 518	9.87 964	17
44	9.80 565	9.91 971	0.08 029	9.88 594	9.81 461	9.93 508	0.06 492	9.87 953	16
45	9.80 580	9.91 996	0.08 004	9.88 584	9.81 475	9.93 533	0.06 467	9.87 942	15
46	9.80 595	9.92 022	0.07 978	9.88 573	9.81 490	9.93 559	0.06 441	9.87 931	14
47	9.80 610	9.92 048	0.07 952	9.88 563	9.81 505	9.93 584	0.06 416	9.87 920	13
48	9.80 625	9.92 073	0.07 927	9.88 552	9.81 519	9.93 610	0.06 390	9.87 909	12
49	9.80 641	9.92 099	0.07 901	9.88 542	9.81 534	9.93 636	0.06 364	9.87 898	11
50	9.80 656	9.92 125	0.07 875	9.88 531	9.81 549	9.93 661	0.06 339	9.87 887	10
51	9.80 671	9.92 150	0.07 850	9.88 521	9.81 563	9.93 687	0.06 313	9.87 877	9
52	9.80 686	9.92 176	0.07 824	9.88 510	9.81 578	9.93 712	0.06 288	9.87 866	8
53	9.80 701	9.92 202	0.07 798	9.88 499	9.81 592	9.93 738	0.06 262	9.87 855	7
54	9.80 716	9.92 227	0.07 773	9.88 489	9.81 607	9.93 763	0.06 237	9.87 844	6
55	9.80 731	9.92 253	0.07 747	9.88 478	9.81 622	9.93 789	0.06 211	9.87 833	5
56	9.80 746	9.92 279	0.07 721	9.88 468	9.81 636	9.93 814	0.06 186	9.87 822	4
57	9.80 762	9.92 304	0.07 696	9.88 457	9.81 651	9.93 840	0.06 160	9.87 811	3
58	9.80 777	9.92 330	0.07 670	9.88 447	9.81 665	9.93 865	0.06 135	9.87 800	2
59	9.80 792	9.92 356	0.07 644	9.88 436	9.81 680	9.93 891	0.06 109	9.87 789	1
60	9.80 807	9.92 381	0.07 619	9.88 425	9.81 694	9.93 916	0.06 084	9.87 778	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

TABLE IV. — LOGARITHMIC SINES, COSINES,

41°					42°				
'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.81 694	9.93 916	0.06 084	9.87 778	9.82 551	9.95 444	0.04 556	9.87 107	60
1	9.81 709	9.93 942	0.06 058	9.87 767	9.82 565	9.95 469	0.04 531	9.87 096	59
2	9.81 723	9.93 967	0.06 033	9.87 756	9.82 579	9.95 495	0.04 505	9.87 085	58
3	9.81 738	9.93 993	0.06 007	9.87 745	9.82 593	9.95 520	0.04 480	9.87 073	57
4	9.81 752	9.94 018	0.05 982	9.87 734	9.82 607	9.95 545	0.04 455	9.87 062	56
5	9.81 767	9.94 044	0.05 956	9.87 723	9.82 621	9.95 571	0.04 429	9.87 050	55
6	9.81 781	9.94 069	0.05 931	9.87 712	9.82 635	9.95 596	0.04 404	9.87 039	54
7	9.81 796	9.94 095	0.05 905	9.87 701	9.82 649	9.95 622	0.04 378	9.87 028	53
8	9.81 810	9.94 120	0.05 880	9.87 690	9.82 663	9.95 647	0.04 353	9.87 016	52
9	9.81 825	9.94 146	0.05 854	9.87 679	9.82 677	9.95 672	0.04 328	9.87 005	51
10	9.81 839	9.94 171	0.05 829	9.87 668	9.82 691	9.95 698	0.04 302	9.86 993	50
11	9.81 854	9.94 197	0.05 803	9.87 657	9.82 705	9.95 723	0.04 277	9.86 982	49
12	9.81 868	9.94 222	0.05 778	9.87 646	9.82 719	9.95 748	0.04 252	9.86 970	48
13	9.81 882	9.94 248	0.05 752	9.87 635	9.82 733	9.95 774	0.04 226	9.86 959	47
14	9.81 897	9.94 273	0.05 727	9.87 624	9.82 747	9.95 799	0.04 201	9.86 947	46
15	9.81 911	9.94 299	0.05 701	9.87 613	9.82 761	9.95 825	0.04 175	9.86 936	45
16	9.81 926	9.94 324	0.05 676	9.87 601	9.82 775	9.95 850	0.04 150	9.86 924	44
17	9.81 940	9.94 350	0.05 650	9.87 590	9.82 788	9.95 875	0.04 125	9.86 913	43
18	9.81 955	9.94 375	0.05 625	9.87 579	9.82 802	9.95 901	0.04 099	9.86 902	42
19	9.81 969	9.94 401	0.05 599	9.87 568	9.82 816	9.95 926	0.04 074	9.86 890	41
20	9.81 983	9.94 426	0.05 574	9.87 557	9.82 830	9.95 952	0.04 048	9.86 879	40
21	9.81 998	9.94 452	0.05 548	9.87 546	9.82 844	9.95 977	0.04 023	9.86 867	39
22	9.82 012	9.94 477	0.05 523	9.87 535	9.82 858	9.96 002	0.03 998	9.86 855	38
23	9.82 026	9.94 503	0.05 497	9.87 524	9.82 872	9.96 028	0.03 972	9.86 844	37
24	9.82 041	9.94 528	0.05 472	9.87 513	9.82 885	9.96 053	0.03 947	9.86 832	36
25	9.82 055	9.94 554	0.05 446	9.87 501	9.82 899	9.96 078	0.03 922	9.86 821	35
26	9.82 069	9.94 579	0.05 421	9.87 490	9.82 913	9.96 104	0.03 896	9.86 809	34
27	9.82 084	9.94 604	0.05 396	9.87 479	9.82 927	9.96 129	0.03 871	9.86 798	33
28	9.82 098	9.94 630	0.05 370	9.87 468	9.82 941	9.96 155	0.03 845	9.86 786	32
29	9.82 112	9.94 655	0.05 345	9.87 457	9.82 955	9.96 180	0.03 820	9.86 775	31
30	9.82 126	9.94 681	0.05 319	9.87 446	9.82 968	9.96 205	0.03 795	9.86 763	30
31	9.82 141	9.94 706	0.05 294	9.87 434	9.82 982	9.96 231	0.03 769	9.86 752	29
32	9.82 155	9.94 732	0.05 268	9.87 423	9.82 996	9.96 256	0.03 744	9.86 740	28
33	9.82 169	9.94 757	0.05 243	9.87 412	9.83 010	9.96 281	0.03 719	9.86 728	27
34	9.82 184	9.94 783	0.05 217	9.87 401	9.83 023	9.96 307	0.03 693	9.86 717	26
35	9.82 198	9.94 808	0.05 192	9.87 390	9.83 037	9.96 332	0.03 668	9.86 705	25
36	9.82 212	9.94 834	0.05 166	9.87 378	9.83 051	9.96 357	0.03 643	9.86 694	24
37	9.82 226	9.94 859	0.05 141	9.87 367	9.83 065	9.96 383	0.03 617	9.86 682	23
38	9.82 240	9.94 884	0.05 116	9.87 356	9.83 078	9.96 408	0.03 592	9.86 670	22
39	9.82 255	9.94 910	0.05 090	9.87 345	9.83 092	9.96 433	0.03 567	9.86 659	21
40	9.82 269	9.94 935	0.05 065	9.87 334	9.83 106	9.96 459	0.03 541	9.86 647	20
41	9.82 283	9.94 961	0.05 039	9.87 322	9.83 120	9.96 484	0.03 516	9.86 635	19
42	9.82 297	9.94 986	0.05 014	9.87 311	9.83 133	9.96 510	0.03 490	9.86 624	18
43	9.82 311	9.95 012	0.04 988	9.87 300	9.83 147	9.96 535	0.03 465	9.86 612	17
44	9.82 326	9.95 037	0.04 963	9.87 288	9.83 161	9.96 560	0.03 440	9.86 600	16
45	9.82 340	9.95 062	0.04 938	9.87 277	9.83 174	9.96 586	0.03 414	9.86 589	15
46	9.82 354	9.95 088	0.04 912	9.87 266	9.83 188	9.96 611	0.03 389	9.86 577	14
47	9.82 368	9.95 113	0.04 887	9.87 255	9.83 202	9.96 636	0.03 364	9.86 565	13
48	9.82 382	9.95 139	0.04 861	9.87 243	9.83 215	9.96 662	0.03 338	9.86 554	12
49	9.82 396	9.95 164	0.04 836	9.87 232	9.83 229	9.96 687	0.03 313	9.86 542	11
50	9.82 410	9.95 190	0.04 810	9.87 221	9.83 242	9.96 712	0.03 288	9.86 530	10
51	9.82 424	9.95 215	0.04 785	9.87 209	9.83 256	9.96 738	0.03 262	9.86 518	9
52	9.82 439	9.95 240	0.04 760	9.87 198	9.83 270	9.96 763	0.03 237	9.86 507	8
53	9.82 453	9.95 266	0.04 734	9.87 187	9.83 283	9.96 788	0.03 212	9.86 495	7
54	9.82 467	9.95 291	0.04 709	9.87 175	9.83 297	9.96 814	0.03 186	9.86 483	6
55	9.82 481	9.95 317	0.04 683	9.87 164	9.83 310	9.96 839	0.03 161	9.86 472	5
56	9.82 495	9.95 342	0.04 658	9.87 153	9.83 324	9.96 864	0.03 136	9.86 460	4
57	9.82 509	9.95 368	0.04 632	9.87 141	9.83 338	9.96 890	0.03 110	9.86 448	3
58	9.82 523	9.95 393	0.04 607	9.87 130	9.83 351	9.96 915	0.03 085	9.86 436	2
59	9.82 537	9.95 418	0.04 582	9.87 119	9.83 365	9.96 940	0.03 060	9.86 425	1
60	9.82 551	9.95 444	0.04 556	9.87 107	9.83 378	9.96 966	0.03 034	9.86 413	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

48°

47°

TANGENTS AND COTANGENTS

43°

44°

'	log sin	log tan	log cot	log cos	log sin	log tan	log cot	log cos	'
0	9.83 378	9.96 966	0.03 034	9.86 413	9.84 177	9.98 484	0.01 516	9.85 693	60
1	9.83 392	9.96 991	0.03 009	9.86 401	9.84 190	9.98 509	0.01 491	9.85 681	59
2	9.83 405	9.97 016	0.02 984	9.86 389	9.84 203	9.98 534	0.01 466	9.85 669	58
3	9.83 419	9.97 042	0.02 958	9.86 377	9.84 216	9.98 560	0.01 440	9.85 657	57
4	9.83 432	9.97 067	0.02 933	9.86 366	9.84 229	9.98 585	0.01 415	9.85 645	56
5	9.83 446	9.97 092	0.02 908	9.86 354	9.84 242	9.98 610	0.01 390	9.85 632	55
6	9.83 459	9.97 118	0.02 882	9.86 342	9.84 255	9.98 635	0.01 365	9.85 620	54
7	9.83 473	9.97 143	0.02 857	9.86 330	9.84 269	9.98 661	0.01 339	9.85 608	53
8	9.83 486	9.97 168	0.02 832	9.86 318	9.84 282	9.98 686	0.01 314	9.85 596	52
9	9.83 500	9.97 193	0.02 807	9.86 306	9.84 295	9.98 711	0.01 289	9.85 583	51
10	9.83 513	9.97 219	0.02 781	9.86 295	9.84 308	9.98 737	0.01 263	9.85 571	50
11	9.83 527	9.97 244	0.02 756	9.86 283	9.84 321	9.98 762	0.01 238	9.85 559	49
12	9.83 540	9.97 269	0.02 731	9.86 271	9.84 334	9.98 787	0.01 213	9.85 547	48
13	9.83 554	9.97 295	0.02 705	9.86 259	9.84 347	9.98 812	0.01 188	9.85 534	47
14	9.83 567	9.97 320	0.02 680	9.86 247	9.84 360	9.98 838	0.01 162	9.85 522	46
15	9.83 581	9.97 345	0.02 655	9.86 235	9.84 373	9.98 863	0.01 137	9.85 510	45
16	9.83 594	9.97 371	0.02 629	9.86 223	9.84 385	9.98 888	0.01 112	9.85 497	44
17	9.83 608	9.97 396	0.02 604	9.86 211	9.84 398	9.98 913	0.01 087	9.85 485	43
18	9.83 621	9.97 421	0.02 579	9.86 200	9.84 411	9.98 939	0.01 061	9.85 473	42
19	9.83 634	9.97 447	0.02 553	9.86 188	9.84 424	9.98 964	0.01 036	9.85 460	41
20	9.83 648	9.97 472	0.02 528	9.86 176	9.84 437	9.98 989	0.01 011	9.85 448	40
21	9.83 661	9.97 497	0.02 503	9.86 164	9.84 450	9.99 015	0.00 985	9.85 436	39
22	9.83 674	9.97 523	0.02 477	9.86 152	9.84 463	9.99 040	0.00 960	9.85 423	38
23	9.83 688	9.97 548	0.02 452	9.86 140	9.84 476	9.99 065	0.00 935	9.85 411	37
24	9.83 701	9.97 573	0.02 427	9.86 128	9.84 489	9.99 090	0.00 910	9.85 399	36
25	9.83 715	9.97 598	0.02 402	9.86 116	9.84 502	9.99 116	0.00 884	9.85 386	35
26	9.83 728	9.97 624	0.02 376	9.86 104	9.84 515	9.99 141	0.00 859	9.85 374	34
27	9.83 741	9.97 649	0.02 351	9.86 092	9.84 528	9.99 166	0.00 834	9.85 361	33
28	9.83 755	9.97 674	0.02 326	9.86 080	9.84 540	9.99 191	0.00 809	9.85 349	32
29	9.83 768	9.97 700	0.02 300	9.86 068	9.84 553	9.99 217	0.00 783	9.85 337	31
30	9.83 781	9.97 725	0.02 275	9.86 056	9.84 566	9.99 242	0.00 758	9.85 324	30
31	9.83 795	9.97 750	0.02 250	9.86 044	9.84 579	9.99 267	0.00 733	9.85 312	29
32	9.83 808	9.97 776	0.02 224	9.86 032	9.84 592	9.99 293	0.00 707	9.85 299	28
33	9.83 821	9.97 801	0.02 199	9.86 020	9.84 605	9.99 318	0.00 682	9.85 287	27
34	9.83 834	9.97 826	0.02 174	9.86 008	9.84 618	9.99 343	0.00 657	9.85 274	26
35	9.83 848	9.97 851	0.02 149	9.85 996	9.84 630	9.99 368	0.00 632	9.85 262	25
36	9.83 861	9.97 877	0.02 123	9.85 984	9.84 643	9.99 394	0.00 606	9.85 250	24
37	9.83 874	9.97 902	0.02 098	9.85 972	9.84 656	9.99 419	0.00 581	9.85 237	23
38	9.83 887	9.97 927	0.02 073	9.85 960	9.84 669	9.99 444	0.00 556	9.85 225	22
39	9.83 901	9.97 953	0.02 047	9.85 948	9.84 682	9.99 469	0.00 531	9.85 212	21
40	9.83 914	9.97 978	0.02 022	9.85 936	9.84 694	9.99 495	0.00 505	9.85 200	20
41	9.83 927	9.98 003	0.01 997	9.85 924	9.84 707	9.99 520	0.00 480	9.85 187	19
42	9.83 940	9.98 029	0.01 971	9.85 912	9.84 720	9.99 545	0.00 455	9.85 175	18
43	9.83 954	9.98 054	0.01 946	9.85 900	9.84 733	9.99 570	0.00 430	9.85 162	17
44	9.83 967	9.98 079	0.01 921	9.85 888	9.84 745	9.99 596	0.00 404	9.85 150	16
45	9.83 980	9.98 104	0.01 896	9.85 876	9.84 758	9.99 621	0.00 379	9.85 137	15
46	9.83 993	9.98 130	0.01 870	9.85 864	9.84 771	9.99 646	0.00 354	9.85 125	14
47	9.84 006	9.98 155	0.01 845	9.85 851	9.84 784	9.99 672	0.00 328	9.85 112	13
48	9.84 020	9.98 180	0.01 820	9.85 839	9.84 796	9.99 697	0.00 303	9.85 100	12
49	9.84 033	9.98 206	0.01 794	9.85 827	9.84 809	9.99 722	0.00 278	9.85 087	11
50	9.84 046	9.98 231	0.01 769	9.85 815	9.84 822	9.99 747	0.00 253	9.85 074	10
51	9.84 059	9.98 256	0.01 744	9.85 803	9.84 835	9.99 773	0.00 227	9.85 062	9
52	9.84 072	9.98 281	0.01 719	9.85 791	9.84 847	9.99 798	0.00 202	9.85 049	8
53	9.84 085	9.98 307	0.01 693	9.85 779	9.84 860	9.99 823	0.00 177	9.85 037	7
54	9.84 098	9.98 332	0.01 668	9.85 766	9.84 873	9.99 848	0.00 152	9.85 024	6
55	9.84 112	9.98 357	0.01 643	9.85 754	9.84 885	9.99 874	0.00 126	9.85 012	5
56	9.84 125	9.98 383	0.01 617	9.85 742	9.84 898	9.99 899	0.00 101	9.84 999	4
57	9.84 138	9.98 408	0.01 592	9.85 730	9.84 911	9.99 924	0.00 076	9.84 986	3
58	9.84 151	9.98 433	0.01 567	9.85 718	9.84 923	9.99 949	0.00 051	9.84 974	2
59	9.84 164	9.98 458	0.01 542	9.85 706	9.84 936	9.99 975	0.00 025	9.84 961	1
60	9.84 177	9.98 484	0.01 516	9.85 693	9.84 949	0.00 000	0.00 000	9.84 949	0
	log cos	log cot	log tan	log sin	log cos	log cot	log tan	log sin	'

46°

45°

TABLE V.—NATURAL SINES AND COSINES

°	0°		1°		2°		3°		4°		°
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	0000	1.000	0175	9998	0349	9994	0523	9986	0698	9976	60
1	0003	1.000	0177	9998	0352	9994	0526	9986	0700	9975	59
2	0006	1.000	0180	9998	0355	9994	0529	9986	0703	9975	58
3	0009	1.000	0183	9998	0358	9994	0532	9986	0706	9975	57
4	0012	1.000	0186	9998	0361	9993	0535	9986	0709	9975	56
5	0015	1.000	0189	9998	0364	9993	0538	9986	0712	9975	55
6	0017	1.000	0192	9998	0366	9993	0541	9985	0715	9974	54
7	0020	1.000	0195	9998	0369	9993	0544	9985	0718	9974	53
8	0023	1.000	0198	9998	0372	9993	0547	9985	0721	9974	52
9	0026	1.000	0201	9998	0375	9993	0550	9985	0724	9974	51
10	0029	1.000	0204	9998	0378	9993	0552	9985	0727	9974	50
11	0032	1.000	0207	9998	0381	9993	0555	9985	0729	9973	49
12	0035	1.000	0209	9998	0384	9993	0558	9984	0732	9973	48
13	0038	1.000	0212	9998	0387	9993	0561	9984	0735	9973	47
14	0041	1.000	0215	9998	0390	9992	0564	9984	0738	9973	46
15	0044	1.000	0218	9998	0393	9992	0567	9984	0741	9973	45
16	0047	1.000	0221	9998	0396	9992	0570	9984	0744	9972	44
17	0049	1.000	0224	9997	0398	9992	0573	9984	0747	9972	43
18	0052	1.000	0227	9997	0401	9992	0576	9983	0750	9972	42
19	0055	1.000	0230	9997	0404	9992	0579	9983	0753	9972	41
20	0058	1.000	0233	9997	0407	9992	0581	9983	0756	9971	40
21	0061	1.000	0236	9997	0410	9992	0584	9983	0758	9971	39
22	0064	1.000	0239	9997	0413	9991	0587	9983	0761	9971	38
23	0067	1.000	0241	9997	0416	9991	0590	9983	0764	9971	37
24	0070	1.000	0244	9997	0419	9991	0593	9982	0767	9971	36
25	0073	1.000	0247	9997	0422	9991	0596	9982	0770	9970	35
26	0076	1.000	0250	9997	0425	9991	0599	9982	0773	9970	34
27	0079	1.000	0253	9997	0427	9991	0602	9982	0776	9970	33
28	0081	1.000	0256	9997	0430	9991	0605	9982	0779	9970	32
29	0084	1.000	0259	9997	0433	9991	0608	9982	0782	9969	31
30	0087	1.000	0262	9997	0436	9990	0610	9981	0785	9969	30
31	0090	1.000	0265	9996	0439	9990	0613	9981	0787	9969	29
32	0093	1.000	0268	9996	0442	9990	0616	9981	0790	9969	28
33	0096	1.000	0270	9996	0445	9990	0619	9981	0793	9968	27
34	0099	1.000	0273	9996	0448	9990	0622	9981	0796	9968	26
35	0102	9999	0276	9996	0451	9990	0625	9980	0799	9968	25
36	0105	9999	0279	9996	0454	9990	0628	9980	0802	9968	24
37	0108	9999	0282	9996	0457	9990	0631	9980	0805	9968	23
38	0111	9999	0285	9996	0459	9989	0634	9980	0808	9967	22
39	0113	9999	0288	9996	0462	9989	0637	9980	0811	9967	21
40	0116	9999	0291	9996	0465	9989	0640	9980	0814	9967	20
41	0119	9999	0294	9996	0468	9989	0642	9979	0816	9967	19
42	0122	9999	0297	9996	0471	9989	0645	9979	0819	9966	18
43	0125	9999	0300	9996	0474	9989	0648	9979	0822	9966	17
44	0128	9999	0302	9995	0477	9989	0651	9979	0825	9966	16
45	0131	9999	0305	9995	0480	9988	0654	9979	0828	9966	15
46	0134	9999	0308	9995	0483	9988	0657	9978	0831	9965	14
47	0137	9999	0311	9995	0486	9988	0660	9978	0834	9965	13
48	0140	9999	0314	9995	0488	9988	0663	9978	0837	9965	12
49	0143	9999	0317	9995	0491	9988	0666	9978	0840	9965	11
50	0145	9999	0320	9995	0494	9988	0669	9978	0843	9964	10
51	0148	9999	0323	9995	0497	9988	0671	9977	0845	9964	9
52	0151	9999	0326	9995	0500	9987	0674	9977	0848	9964	8
53	0154	9999	0329	9995	0503	9987	0677	9977	0851	9964	7
54	0157	9999	0332	9995	0506	9987	0680	9977	0854	9963	6
55	0160	9999	0334	9994	0509	9987	0683	9977	0857	9963	5
56	0163	9999	0337	9994	0512	9987	0686	9976	0860	9963	4
57	0166	9999	0340	9994	0515	9987	0689	9976	0863	9963	3
58	0169	9999	0343	9994	0518	9987	0692	9976	0866	9962	2
59	0172	9999	0346	9994	0520	9986	0695	9976	0869	9962	1
60	0175	9999	0349	9994	0523	9986	0698	9976	0872	9962	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
	89°		88°		87°		86°		85°		

TABLE V. — NATURAL SINES AND COSINES

/	5°		6°		7°		8°		9°		/
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	0872	9962	1045	9945	1219	9925	1392	9903	1564	9877	60
1	0874	9962	1048	9945	1222	9925	1395	9902	1567	9876	59
2	0877	9961	1051	9945	1224	9925	1397	9902	1570	9876	58
3	0880	9961	1054	9944	1227	9924	1400	9901	1573	9876	57
4	0883	9961	1057	9944	1230	9924	1403	9901	1576	9875	56
5	0886	9961	1060	9944	1233	9924	1406	9901	1579	9875	55
6	0889	9960	1063	9943	1236	9923	1409	9900	1582	9874	54
7	0892	9960	1066	9943	1239	9923	1412	9900	1584	9874	53
8	0895	9960	1068	9943	1241	9923	1415	9899	1587	9873	52
9	0898	9960	1071	9942	1245	9922	1418	9899	1590	9873	51
10	0901	9959	1074	9942	1248	9922	1421	9899	1593	9872	50
11	0903	9959	1077	9942	1250	9922	1423	9898	1596	9872	49
12	0906	9959	1080	9942	1253	9921	1426	9898	1599	9871	48
13	0909	9959	1083	9941	1256	9921	1429	9897	1602	9871	47
14	0912	9958	1086	9941	1259	9920	1432	9897	1605	9870	46
15	0915	9958	1089	9941	1262	9920	1435	9897	1607	9870	45
16	0918	9958	1092	9940	1265	9920	1438	9896	1610	9869	44
17	0921	9958	1094	9940	1268	9919	1441	9896	1613	9869	43
18	0924	9957	1097	9940	1271	9919	1444	9895	1616	9869	42
19	0927	9957	1100	9939	1274	9919	1446	9895	1619	9868	41
20	0929	9957	1103	9939	1276	9918	1449	9894	1622	9868	40
21	0932	9956	1106	9939	1279	9918	1452	9894	1625	9867	39
22	0935	9956	1109	9938	1282	9917	1455	9894	1628	9867	38
23	0938	9956	1112	9938	1285	9917	1458	9893	1630	9866	37
24	0941	9956	1115	9938	1288	9917	1461	9893	1633	9866	36
25	0944	9955	1118	9937	1291	9916	1464	9892	1636	9865	35
26	0947	9955	1120	9937	1294	9916	1467	9892	1639	9865	34
27	0950	9955	1123	9937	1297	9916	1469	9891	1642	9864	33
28	0953	9955	1126	9936	1299	9915	1472	9891	1645	9864	32
29	0956	9954	1129	9936	1302	9915	1475	9891	1648	9863	31
30	0958	9954	1132	9936	1305	9914	1478	9890	1650	9863	30
31	0961	9954	1135	9935	1308	9914	1481	9890	1653	9862	29
32	0964	9953	1138	9935	1311	9914	1484	9889	1656	9862	28
33	0967	9953	1141	9935	1314	9913	1487	9889	1659	9861	27
34	0970	9953	1144	9934	1317	9913	1490	9888	1662	9861	26
35	0973	9953	1146	9934	1320	9913	1492	9888	1665	9860	25
36	0976	9952	1149	9934	1323	9912	1495	9888	1668	9860	24
37	0979	9952	1152	9933	1325	9912	1498	9887	1671	9859	23
38	0982	9952	1155	9933	1328	9911	1501	9887	1673	9859	22
39	0985	9951	1158	9933	1331	9911	1504	9886	1676	9859	21
40	0987	9951	1161	9932	1334	9911	1507	9886	1679	9858	20
41	0990	9951	1164	9932	1337	9910	1510	9885	1682	9858	19
42	0993	9951	1167	9932	1340	9910	1513	9885	1685	9857	18
43	0996	9950	1170	9931	1343	9909	1515	9884	1688	9857	17
44	0999	9950	1172	9931	1346	9909	1518	9884	1691	9856	16
45	1002	9950	1175	9931	1349	9909	1521	9884	1693	9856	15
46	1005	9949	1178	9930	1351	9908	1524	9883	1696	9855	14
47	1008	9949	1181	9930	1354	9908	1527	9883	1699	9855	13
48	1011	9949	1184	9930	1357	9907	1530	9882	1702	9854	12
49	1013	9949	1187	9929	1360	9907	1533	9882	1705	9854	11
50	1016	9948	1190	9929	1363	9907	1536	9881	1708	9853	10
51	1019	9948	1193	9929	1366	9906	1538	9881	1711	9853	9
52	1022	9948	1196	9928	1369	9906	1541	9880	1714	9852	8
53	1025	9947	1198	9928	1372	9905	1544	9880	1716	9852	7
54	1028	9947	1201	9928	1374	9905	1547	9880	1719	9851	6
55	1031	9947	1204	9927	1377	9905	1550	9879	1722	9851	5
56	1034	9946	1207	9927	1380	9904	1553	9879	1725	9850	4
57	1037	9946	1210	9927	1383	9904	1556	9878	1728	9850	3
58	1039	9946	1213	9926	1386	9903	1559	9878	1731	9849	2
59	1042	9946	1216	9926	1389	9903	1561	9877	1734	9849	1
60	1045	9945	1219	9925	1392	9903	1564	9877	1736	9848	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
/	84°		83°		82°		81°		80°		/

TABLE V.—NATURAL SINES AND COSINES.

/	10°		11°		12°		13°		14°		/
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	1736	9848	1908	9816	2079	9781	2250	9744	2419	9703	60
1	1739	9848	1911	9816	2082	9781	2252	9743	2422	9702	59
2	1742	9847	1914	9815	2085	9780	2255	9742	2425	9702	58
3	1745	9847	1917	9815	2088	9780	2258	9742	2428	9701	57
4	1748	9846	1920	9814	2090	9779	2261	9741	2431	9700	56
5	1751	9846	1922	9813	2093	9778	2264	9740	2433	9699	55
6	1754	9845	1925	9813	2096	9778	2267	9740	2436	9699	54
7	1757	9845	1928	9812	2099	9777	2269	9739	2439	9698	53
8	1759	9844	1931	9812	2102	9777	2272	9738	2442	9697	52
9	1762	9843	1934	9811	2105	9776	2275	9738	2445	9697	51
10	1765	9843	1937	9811	2108	9775	2278	9737	2447	9696	50
11	1768	9842	1939	9810	2110	9775	2281	9736	2450	9695	49
12	1771	9842	1942	9810	2113	9774	2284	9736	2453	9694	48
13	1774	9841	1945	9809	2116	9774	2286	9735	2456	9694	47
14	1777	9841	1948	9808	2119	9773	2289	9734	2459	9693	46
15	1779	9840	1951	9808	2122	9772	2292	9734	2462	9692	45
16	1782	9840	1954	9807	2125	9772	2295	9733	2464	9692	44
17	1785	9839	1957	9807	2127	9771	2298	9732	2467	9691	43
18	1788	9839	1959	9806	2130	9770	2300	9732	2470	9690	42
19	1791	9838	1962	9806	2133	9770	2303	9731	2473	9689	41
20	1794	9838	1965	9805	2136	9769	2306	9730	2476	9689	40
21	1797	9837	1968	9804	2139	9769	2309	9730	2478	9688	39
22	1799	9837	1971	9804	2142	9768	2312	9729	2481	9687	38
23	1802	9836	1974	9803	2145	9767	2315	9728	2484	9687	37
24	1805	9836	1977	9803	2147	9767	2317	9728	2487	9686	36
25	1808	9835	1979	9802	2150	9766	2320	9727	2490	9685	35
26	1811	9835	1982	9802	2153	9765	2323	9726	2493	9684	34
27	1814	9834	1985	9801	2156	9765	2326	9726	2495	9684	33
28	1817	9834	1988	9800	2159	9764	2329	9725	2498	9683	32
29	1819	9833	1991	9800	2162	9764	2332	9724	2501	9682	31
30	1822	9833	1994	9799	2164	9763	2334	9724	2504	9681	30
31	1825	9832	1997	9799	2167	9762	2337	9723	2507	9681	29
32	1828	9831	1999	9798	2170	9762	2340	9722	2509	9680	28
33	1831	9831	2002	9798	2173	9761	2343	9722	2512	9679	27
34	1834	9830	2005	9797	2176	9760	2346	9721	2515	9679	26
35	1837	9830	2008	9796	2179	9760	2349	9720	2518	9678	25
36	1840	9829	2011	9796	2181	9759	2351	9720	2521	9677	24
37	1842	9829	2014	9795	2184	9759	2354	9719	2524	9676	23
38	1845	9828	2016	9795	2187	9758	2357	9718	2526	9676	22
39	1848	9828	2019	9794	2190	9757	2360	9718	2529	9675	21
40	1851	9827	2022	9793	2193	9757	2363	9717	2532	9674	20
41	1854	9827	2025	9793	2196	9756	2366	9716	2535	9673	19
42	1857	9826	2028	9792	2198	9755	2368	9715	2538	9673	18
43	1860	9826	2031	9792	2201	9755	2371	9715	2540	9672	17
44	1862	9825	2034	9791	2204	9754	2374	9714	2543	9671	16
45	1865	9825	2036	9790	2207	9753	2377	9713	2546	9670	15
46	1868	9824	2039	9790	2210	9753	2380	9713	2549	9670	14
47	1871	9823	2042	9789	2213	9752	2383	9712	2552	9669	13
48	1874	9823	2045	9789	2215	9751	2385	9711	2554	9668	12
49	1877	9822	2048	9788	2218	9751	2388	9711	2557	9667	11
50	1880	9822	2051	9787	2221	9750	2391	9710	2560	9667	10
51	1882	9821	2054	9787	2224	9750	2394	9709	2563	9666	9
52	1885	9821	2056	9786	2227	9749	2397	9709	2566	9665	8
53	1888	9820	2059	9786	2230	9748	2399	9708	2569	9665	7
54	1891	9820	2062	9785	2233	9748	2402	9707	2571	9664	6
55	1894	9819	2065	9784	2235	9747	2405	9706	2574	9663	5
56	1897	9818	2068	9784	2238	9746	2408	9706	2577	9662	4
57	1900	9818	2071	9783	2241	9746	2411	9705	2580	9662	3
58	1902	9817	2073	9783	2244	9745	2414	9704	2583	9661	2
59	1905	9817	2076	9782	2247	9744	2416	9704	2585	9660	1
60	1908	9816	2079	9781	2250	9744	2419	9703	2588	9659	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
/	79°		78°		77°		76°		75°		/

TABLE V.—NATURAL SINES AND COSINES

/	15°		16°		17°		18°		19°		/
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	2588	9659	2756	9613	2924	9563	3090	9511	3256	9455	60
1	2591	9659	2759	9612	2926	9562	3093	9510	3258	9454	59
2	2594	9658	2762	9611	2929	9561	3096	9509	3261	9453	58
3	2597	9657	2765	9610	2932	9560	3098	9508	3264	9452	57
4	2599	9656	2768	9609	2935	9560	3101	9507	3267	9451	56
5	2602	9655	2770	9609	2938	9559	3104	9506	3269	9450	55
6	2605	9655	2773	9608	2940	9558	3107	9505	3272	9449	54
7	2608	9654	2776	9607	2943	9557	3110	9504	3275	9449	53
8	2611	9653	2779	9606	2946	9556	3112	9503	3278	9448	52
9	2613	9652	2782	9605	2949	9555	3115	9502	3280	9447	51
10	2616	9652	2784	9605	2952	9555	3118	9502	3283	9446	50
11	2619	9651	2787	9604	2954	9554	3121	9501	3286	9445	49
12	2622	9650	2790	9603	2957	9553	3123	9500	3289	9444	48
13	2625	9649	2793	9602	2960	9552	3126	9499	3291	9443	47
14	2628	9649	2795	9601	2963	9551	3129	9498	3294	9442	46
15	2630	9648	2798	9600	2965	9550	3132	9497	3297	9441	45
16	2633	9647	2801	9600	2968	9549	3134	9496	3300	9440	44
17	2636	9646	2804	9599	2971	9548	3137	9495	3302	9439	43
18	2639	9646	2807	9598	2974	9548	3140	9494	3305	9438	42
19	2642	9645	2809	9597	2977	9547	3143	9493	3308	9437	41
20	2644	9644	2812	9596	2979	9546	3145	9492	3311	9436	40
21	2647	9643	2815	9596	2982	9545	3148	9492	3313	9435	39
22	2650	9642	2818	9595	2985	9544	3151	9491	3316	9434	38
23	2653	9642	2821	9594	2988	9543	3154	9490	3319	9433	37
24	2656	9641	2823	9593	2990	9542	3156	9489	3322	9432	36
25	2658	9640	2826	9592	2993	9542	3159	9488	3324	9431	35
26	2661	9639	2829	9591	2996	9541	3162	9487	3327	9430	34
27	2664	9639	2832	9591	2999	9540	3165	9486	3330	9429	33
28	2667	9638	2835	9590	3002	9539	3168	9485	3333	9428	32
29	2670	9637	2837	9589	3004	9538	3170	9484	3335	9427	31
30	2672	9636	2840	9588	3007	9537	3173	9483	3338	9426	30
31	2675	9636	2843	9587	3010	9536	3176	9482	3341	9425	29
32	2678	9635	2846	9587	3013	9535	3179	9481	3344	9424	28
33	2681	9634	2849	9586	3015	9535	3181	9480	3346	9423	27
34	2684	9633	2851	9585	3018	9534	3184	9480	3349	9423	26
35	2686	9632	2854	9584	3021	9533	3187	9479	3352	9422	25
36	2689	9632	2857	9583	3024	9532	3190	9478	3355	9421	24
37	2692	9631	2860	9582	3026	9531	3192	9477	3357	9420	23
38	2695	9630	2862	9582	3029	9530	3195	9476	3360	9419	22
39	2698	9629	2865	9581	3032	9529	3198	9475	3363	9418	21
40	2700	9628	2868	9580	3035	9528	3201	9474	3365	9417	20
41	2703	9628	2871	9579	3038	9527	3203	9473	3368	9416	19
42	2706	9627	2874	9578	3040	9527	3206	9472	3371	9415	18
43	2709	9626	2876	9577	3043	9526	3209	9471	3374	9414	17
44	2712	9625	2879	9577	3046	9525	3212	9470	3376	9413	16
45	2714	9625	2882	9576	3049	9524	3214	9469	3379	9412	15
46	2717	9624	2885	9575	3051	9523	3217	9468	3382	9411	14
47	2720	9623	2888	9574	3054	9522	3220	9467	3385	9410	13
48	2723	9622	2890	9573	3057	9521	3223	9466	3387	9409	12
49	2726	9621	2893	9572	3060	9520	3225	9466	3390	9408	11
50	2728	9621	2896	9572	3062	9520	3228	9465	3393	9407	10
51	2731	9620	2899	9571	3065	9519	3231	9464	3396	9406	9
52	2734	9619	2901	9570	3068	9518	3234	9463	3398	9405	8
53	2737	9618	2904	9569	3071	9517	3236	9462	3401	9404	7
54	2740	9617	2907	9568	3074	9516	3239	9461	3404	9403	6
55	2742	9617	2910	9567	3076	9515	3242	9460	3407	9402	5
56	2745	9616	2913	9566	3079	9514	3245	9459	3409	9401	4
57	2748	9615	2915	9566	3082	9513	3247	9458	3412	9400	3
58	2751	9614	2918	9565	3085	9512	3250	9457	3415	9399	2
59	2754	9613	2921	9564	3087	9511	3253	9456	3417	9398	1
60	2756	9613	2924	9563	3090	9511	3256	9455	3420	9397	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
/	74°		73°		72°		71°		70°		/

TABLE V.—NATURAL SINES AND COSINES

/	20°		21°		22°		23°		24°		/
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	3420	9397	3584	9336	3746	9272	3907	9205	4067	9135	60
1	3423	9396	3586	9335	3749	9271	3910	9204	4070	9134	59
2	3426	9395	3589	9334	3751	9270	3913	9203	4073	9133	58
3	3428	9394	3592	9333	3754	9269	3915	9202	4075	9132	57
4	3431	9393	3595	9332	3757	9267	3918	9200	4078	9131	56
5	3434	9392	3597	9331	3760	9266	3921	9199	4081	9130	55
6	3437	9391	3600	9330	3762	9265	3923	9198	4083	9128	54
7	3439	9390	3603	9328	3765	9264	3926	9197	4086	9127	53
8	3442	9389	3605	9327	3768	9263	3929	9196	4089	9126	52
9	3445	9388	3608	9326	3770	9262	3931	9195	4091	9125	51
10	3448	9387	3611	9325	3773	9261	3934	9194	4094	9124	50
11	3450	9386	3614	9324	3776	9260	3937	9192	4097	9122	49
12	3453	9385	3616	9323	3778	9259	3939	9191	4099	9121	48
13	3456	9384	3619	9322	3781	9258	3942	9190	4102	9120	47
14	3458	9383	3622	9321	3784	9257	3945	9189	4105	9119	46
15	3461	9382	3624	9320	3786	9255	3947	9188	4107	9118	45
16	3464	9381	3627	9319	3789	9254	3950	9187	4110	9116	44
17	3467	9380	3630	9318	3792	9253	3953	9186	4112	9115	43
18	3469	9379	3633	9317	3795	9252	3955	9184	4115	9114	42
19	3472	9378	3635	9316	3797	9251	3958	9183	4118	9113	41
20	3475	9377	3638	9315	3800	9250	3961	9182	4120	9112	40
21	3478	9376	3641	9314	3803	9249	3963	9181	4123	9110	39
22	3480	9375	3643	9313	3805	9248	3966	9180	4126	9109	38
23	3483	9374	3646	9312	3808	9247	3969	9179	4128	9108	37
24	3486	9373	3649	9311	3811	9245	3971	9178	4131	9107	36
25	3488	9372	3651	9309	3813	9244	3974	9176	4134	9106	35
26	3491	9371	3654	9308	3816	9243	3977	9175	4136	9104	34
27	3494	9370	3657	9307	3819	9242	3979	9174	4139	9103	33
28	3497	9369	3660	9306	3821	9241	3982	9173	4142	9102	32
29	3499	9368	3662	9305	3824	9240	3985	9172	4144	9101	31
30	3502	9367	3665	9304	3827	9239	3987	9171	4147	9100	30
31	3505	9366	3668	9303	3830	9238	3990	9169	4150	9098	29
32	3508	9365	3670	9302	3832	9237	3993	9168	4152	9097	28
33	3510	9364	3673	9301	3835	9235	3995	9167	4155	9096	27
34	3513	9363	3676	9300	3838	9234	3998	9166	4158	9095	26
35	3516	9362	3679	9299	3840	9233	4001	9165	4160	9094	25
36	3518	9361	3681	9298	3843	9232	4003	9164	4163	9092	24
37	3521	9360	3684	9297	3846	9231	4006	9162	4165	9091	23
38	3524	9359	3687	9296	3848	9230	4009	9161	4168	9090	22
39	3527	9358	3689	9295	3851	9229	4011	9160	4171	9088	21
40	3529	9356	3692	9293	3854	9228	4014	9159	4173	9088	20
41	3532	9355	3695	9292	3856	9227	4017	9158	4176	9086	19
42	3535	9354	3697	9291	3859	9225	4019	9157	4179	9085	18
43	3537	9353	3700	9290	3862	9224	4022	9155	4181	9084	17
44	3540	9352	3703	9289	3864	9223	4025	9154	4184	9083	16
45	3543	9351	3706	9288	3867	9222	4027	9153	4187	9081	15
46	3546	9350	3708	9287	3870	9221	4030	9152	4189	9080	14
47	3548	9349	3711	9286	3872	9220	4033	9151	4192	9079	13
48	3551	9348	3714	9285	3875	9219	4035	9150	4195	9078	12
49	3554	9347	3716	9284	3878	9218	4038	9148	4197	9077	11
50	3557	9346	3719	9283	3881	9216	4041	9147	4200	9075	10
51	3559	9345	3722	9282	3883	9215	4043	9146	4202	9074	9
52	3562	9344	3724	9281	3886	9214	4046	9145	4205	9073	8
53	3565	9343	3727	9279	3889	9213	4049	9144	4208	9072	7
54	3567	9342	3730	9278	3891	9212	4051	9143	4210	9070	6
55	3570	9341	3733	9277	3894	9211	4054	9141	4213	9069	5
56	3573	9340	3735	9276	3897	9210	4057	9140	4216	9068	4
57	3576	9339	3738	9275	3899	9208	4059	9139	4218	9067	3
58	3578	9338	3741	9274	3902	9207	4062	9138	4221	9066	2
59	3581	9337	3743	9273	3905	9206	4065	9137	4224	9064	1
60	3584	9336	3746	9272	3907	9205	4067	9135	4226	9063	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
/	69°		68°		67°		66°		65°		/

TABLE V. — NATURAL SINES AND COSINES

/	25°		26°		27°		28°		29°		/
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	4226	9063	4384	8988	4540	8910	4695	8829	4848	8746	60
1	4229	9062	4386	8987	4542	8909	4697	8828	4851	8745	59
2	4231	9061	4389	8985	4545	8907	4700	8827	4853	8743	58
3	4234	9059	4392	8984	4548	8906	4702	8825	4856	8742	57
4	4237	9058	4394	8983	4550	8905	4705	8824	4858	8741	56
5	4239	9057	4397	8982	4553	8903	4708	8823	4861	8739	55
6	4242	9056	4399	8980	4555	8902	4710	8821	4863	8738	54
7	4245	9054	4402	8979	4558	8901	4713	8820	4866	8736	53
8	4247	9053	4405	8978	4561	8899	4715	8819	4868	8735	52
9	4250	9052	4407	8976	4563	8898	4718	8817	4871	8733	51
10	4253	9051	4410	8975	4566	8897	4720	8816	4874	8732	50
11	4255	9050	4412	8974	4568	8895	4723	8814	4876	8731	49
12	4258	9048	4415	8973	4571	8894	4726	8813	4879	8729	48
13	4260	9047	4418	8971	4574	8893	4728	8812	4881	8728	47
14	4263	9046	4420	8970	4576	8892	4731	8810	4884	8726	46
15	4266	9045	4423	8969	4579	8890	4733	8809	4886	8725	45
16	4268	9043	4425	8967	4581	8889	4736	8808	4889	8724	44
17	4271	9042	4428	8966	4584	8888	4738	8806	4891	8722	43
18	4274	9041	4431	8965	4586	8886	4741	8805	4894	8721	42
19	4276	9040	4433	8964	4589	8885	4743	8803	4896	8719	41
20	4279	9038	4436	8962	4592	8884	4746	8802	4899	8718	40
21	4281	9037	4439	8961	4594	8882	4749	8801	4901	8716	39
22	4284	9036	4441	8960	4597	8881	4751	8799	4904	8715	38
23	4287	9035	4444	8958	4599	8879	4754	8798	4907	8714	37
24	4289	9033	4446	8957	4602	8878	4756	8796	4909	8712	36
25	4292	9032	4449	8956	4605	8877	4759	8795	4912	8711	35
26	4295	9031	4452	8955	4607	8875	4761	8794	4914	8709	34
27	4297	9030	4454	8953	4610	8874	4764	8792	4917	8708	33
28	4300	9028	4457	8952	4612	8873	4766	8791	4919	8706	32
29	4302	9027	4459	8951	4615	8871	4769	8790	4922	8705	31
30	4305	9026	4462	8949	4617	8870	4772	8788	4924	8704	30
31	4308	9025	4465	8948	4620	8869	4774	8787	4927	8702	29
32	4310	9023	4467	8947	4623	8867	4777	8785	4929	8701	28
33	4313	9022	4470	8945	4625	8866	4779	8784	4932	8699	27
34	4316	9021	4472	8944	4628	8865	4782	8783	4934	8698	26
35	4318	9020	4475	8943	4630	8863	4784	8781	4937	8696	25
36	4321	9018	4478	8942	4633	8862	4787	8780	4939	8695	24
37	4323	9017	4480	8940	4636	8861	4789	8778	4942	8694	23
38	4326	9016	4483	8939	4638	8859	4792	8777	4944	8692	22
39	4329	9015	4485	8938	4641	8858	4795	8776	4947	8691	21
40	4331	9013	4488	8936	4643	8857	4797	8774	4950	8689	20
41	4334	9012	4491	8935	4646	8855	4800	8773	4952	8688	19
42	4337	9011	4493	8934	4648	8854	4802	8771	4955	8686	18
43	4339	9010	4496	8932	4651	8853	4805	8770	4957	8685	17
44	4342	9008	4498	8931	4654	8851	4807	8769	4960	8683	16
45	4344	9007	4501	8930	4656	8850	4810	8767	4962	8682	15
46	4347	9006	4504	8928	4659	8849	4812	8766	4965	8681	14
47	4350	9004	4506	8927	4661	8847	4815	8764	4967	8679	13
48	4352	9003	4509	8926	4664	8846	4818	8763	4970	8678	12
49	4355	9002	4511	8925	4666	8844	4820	8762	4972	8676	11
50	4358	9001	4514	8923	4669	8843	4823	8760	4975	8675	10
51	4360	8999	4517	8922	4672	8842	4825	8759	4977	8673	9
52	4363	8998	4519	8921	4674	8840	4828	8757	4980	8672	8
53	4365	8997	4522	8919	4677	8839	4830	8756	4982	8670	7
54	4368	8996	4524	8918	4679	8838	4833	8755	4985	8669	6
55	4371	8994	4527	8917	4682	8836	4835	8753	4987	8668	5
56	4373	8993	4530	8915	4684	8835	4838	8752	4990	8666	4
57	4376	8992	4532	8914	4687	8834	4840	8750	4992	8665	3
58	4378	8990	4535	8913	4690	8832	4843	8749	4995	8663	2
59	4381	8989	4537	8911	4692	8831	4846	8748	4997	8662	1
60	4384	8988	4540	8910	4695	8829	4848	8746	5000	8660	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
/	64°		63°		62°		61°		60°		/

TABLE V.—NATURAL SINES AND COSINES

	30°		31°		32°		33°		34°		
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	5000	8660	5150	8572	5299	8480	5446	8387	5592	8290	60
1	5003	8659	5153	8570	5302	8479	5449	8385	5594	8289	59
2	5005	8657	5155	8569	5304	8477	5451	8384	5597	8287	58
3	5008	8656	5158	8567	5307	8476	5454	8382	5599	8285	57
4	5010	8654	5160	8566	5309	8474	5456	8380	5602	8284	56
5	5013	8653	5163	8564	5312	8473	5459	8379	5604	8282	55
6	5015	8652	5165	8563	5314	8471	5461	8377	5606	8281	54
7	5018	8650	5168	8561	5316	8470	5463	8376	5609	8279	53
8	5020	8649	5170	8560	5319	8468	5466	8374	5611	8277	52
9	5023	8647	5173	8558	5321	8467	5468	8372	5614	8276	51
10	5025	8646	5175	8557	5324	8465	5471	8371	5616	8274	50
11	5028	8644	5178	8555	5326	8463	5473	8369	5618	8272	49
12	5030	8643	5180	8554	5329	8462	5476	8368	5621	8271	48
13	5033	8641	5183	8552	5331	8460	5478	8366	5623	8269	47
14	5035	8640	5185	8551	5334	8459	5480	8364	5626	8268	46
15	5038	8638	5188	8549	5336	8457	5483	8363	5628	8266	45
16	5040	8637	5190	8548	5339	8456	5485	8361	5630	8264	44
17	5043	8635	5193	8546	5341	8454	5488	8360	5633	8263	43
18	5045	8634	5195	8545	5344	8453	5490	8358	5635	8261	42
19	5048	8632	5198	8543	5346	8451	5493	8356	5638	8259	41
20	5050	8631	5200	8542	5348	8450	5495	8355	5640	8258	40
21	5053	8630	5203	8540	5351	8448	5498	8353	5642	8256	39
22	5055	8628	5205	8539	5353	8446	5500	8352	5645	8254	38
23	5058	8627	5208	8537	5356	8445	5502	8350	5647	8253	37
24	5060	8625	5210	8536	5358	8443	5505	8348	5650	8251	36
25	5063	8624	5213	8534	5361	8442	5507	8347	5652	8249	35
26	5065	8622	5215	8532	5363	8440	5510	8345	5654	8248	34
27	5068	8621	5218	8531	5366	8439	5512	8344	5657	8246	33
28	5070	8619	5220	8529	5368	8437	5515	8342	5659	8245	32
29	5073	8618	5223	8528	5371	8435	5517	8340	5662	8243	31
30	5075	8616	5225	8526	5373	8434	5519	8339	5664	8241	30
31	5078	8615	5227	8525	5375	8432	5522	8337	5666	8240	29
32	5080	8613	5230	8523	5378	8431	5524	8336	5669	8238	28
33	5083	8612	5232	8522	5380	8429	5527	8334	5671	8236	27
34	5085	8610	5235	8520	5383	8428	5529	8332	5674	8235	26
35	5088	8609	5237	8519	5385	8426	5531	8331	5676	8233	25
36	5090	8607	5240	8517	5388	8425	5534	8329	5678	8231	24
37	5093	8606	5242	8516	5390	8423	5536	8328	5681	8230	23
38	5095	8604	5245	8514	5393	8421	5539	8326	5683	8228	22
39	5098	8603	5247	8513	5395	8420	5541	8324	5686	8226	21
40	5100	8601	5250	8511	5398	8418	5544	8323	5688	8225	20
41	5103	8600	5252	8510	5400	8417	5546	8321	5690	8223	19
42	5105	8599	5255	8508	5402	8415	5548	8320	5693	8221	18
43	5108	8597	5257	8507	5405	8414	5551	8318	5695	8220	17
44	5110	8596	5260	8505	5407	8412	5553	8316	5698	8218	16
45	5113	8594	5262	8504	5410	8410	5556	8315	5700	8216	15
46	5115	8593	5265	8502	5412	8409	5558	8313	5702	8215	14
47	5118	8591	5267	8500	5415	8407	5561	8311	5705	8213	13
48	5120	8590	5270	8499	5417	8406	5563	8310	5707	8211	12
49	5123	8588	5272	8497	5420	8404	5565	8308	5710	8210	11
50	5125	8587	5275	8496	5422	8403	5568	8307	5712	8208	10
51	5128	8585	5277	8494	5424	8401	5570	8305	5714	8207	9
52	5130	8584	5279	8493	5427	8399	5573	8303	5717	8205	8
53	5133	8582	5282	8491	5429	8398	5575	8302	5719	8203	7
54	5135	8581	5284	8490	5432	8396	5577	8300	5721	8202	6
55	5138	8579	5287	8488	5434	8395	5580	8299	5724	8200	5
56	5140	8578	5289	8487	5437	8393	5582	8297	5726	8198	4
57	5143	8576	5292	8485	5439	8391	5585	8295	5729	8197	3
58	5145	8575	5294	8484	5442	8390	5587	8294	5731	8195	2
59	5148	8573	5297	8482	5444	8388	5590	8292	5733	8193	1
60	5150	8572	5299	8480	5446	8387	5592	8290	5736	8192	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
	59°		58°		57°		56°		55°		

TABLE V. — NATURAL SINES AND COSINES

	35°		36°		37°		38°		39°		
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	5736	8192	5878	8090	6018	7986	6157	7880	6293	7771	60
1	5738	8190	5880	8088	6020	7985	6159	7878	6295	7770	59
2	5741	8188	5883	8087	6023	7983	6161	7877	6298	7768	58
3	5743	8187	5885	8085	6025	7981	6163	7875	6300	7766	57
4	5745	8185	5887	8083	6027	7979	6166	7873	6302	7764	56
5	5748	8183	5890	8082	6030	7978	6168	7871	6305	7762	55
6	5750	8181	5892	8080	6032	7976	6170	7869	6307	7760	54
7	5752	8180	5894	8078	6034	7974	6173	7868	6309	7759	53
8	5755	8178	5897	8076	6037	7972	6175	7866	6311	7757	52
9	5757	8176	5899	8075	6039	7971	6177	7864	6314	7755	51
10	5760	8175	5901	8073	6041	7969	6180	7862	6316	7753	50
11	5762	8173	5904	8071	6044	7967	6182	7860	6318	7751	49
12	5764	8171	5906	8070	6046	7965	6184	7859	6320	7749	48
13	5767	8170	5908	8068	6048	7964	6186	7857	6323	7748	47
14	5769	8168	5911	8066	6051	7962	6189	7855	6325	7746	46
15	5771	8166	5913	8064	6053	7960	6191	7853	6327	7744	45
16	5774	8165	5915	8063	6055	7958	6193	7851	6329	7742	44
17	5776	8163	5918	8061	6058	7956	6196	7850	6332	7740	43
18	5779	8161	5920	8059	6060	7955	6198	7848	6334	7738	42
19	5781	8160	5922	8058	6062	7953	6200	7846	6336	7737	41
20	5783	8158	5925	8056	6065	7951	6202	7844	6338	7735	40
21	5786	8156	5927	8054	6067	7950	6205	7842	6341	7733	39
22	5788	8155	5930	8052	6069	7948	6207	7841	6343	7731	38
23	5790	8153	5932	8051	6071	7946	6209	7839	6345	7729	37
24	5793	8151	5934	8049	6074	7944	6211	7837	6347	7727	36
25	5795	8150	5937	8047	6076	7942	6214	7835	6350	7725	35
26	5798	8148	5939	8045	6078	7941	6216	7833	6352	7724	34
27	5800	8146	5941	8044	6081	7939	6218	7832	6354	7722	33
28	5802	8145	5944	8042	6083	7937	6221	7830	6356	7720	32
29	5805	8143	5946	8040	6085	7935	6223	7828	6359	7718	31
30	5807	8141	5948	8039	6088	7934	6225	7826	6361	7716	30
31	5809	8139	5951	8037	6090	7932	6227	7824	6363	7714	29
32	5812	8138	5953	8035	6092	7930	6230	7822	6365	7713	28
33	5814	8136	5955	8033	6095	7928	6232	7821	6368	7711	27
34	5816	8134	5958	8032	6097	7926	6234	7819	6370	7709	26
35	5819	8133	5960	8030	6099	7925	6237	7817	6372	7707	25
36	5821	8131	5962	8028	6101	7923	6239	7815	6374	7705	24
37	5824	8129	5965	8026	6104	7921	6241	7813	6376	7703	23
38	5826	8128	5967	8025	6106	7919	6243	7812	6379	7701	22
39	5828	8126	5969	8023	6108	7918	6246	7810	6381	7700	21
40	5831	8124	5972	8021	6111	7916	6248	7808	6383	7698	20
41	5833	8123	5974	8020	6113	7914	6250	7806	6385	7696	19
42	5835	8121	5976	8018	6115	7912	6252	7804	6388	7694	18
43	5838	8119	5979	8016	6118	7910	6255	7802	6390	7692	17
44	5840	8117	5981	8014	6120	7909	6257	7801	6392	7690	16
45	5842	8116	5983	8013	6122	7907	6259	7799	6394	7688	15
46	5845	8114	5986	8011	6124	7905	6262	7797	6397	7687	14
47	5847	8112	5988	8009	6127	7903	6264	7795	6399	7685	13
48	5850	8111	5990	8007	6129	7902	6266	7793	6401	7683	12
49	5852	8109	5993	8006	6131	7900	6268	7792	6403	7681	11
50	5854	8107	5995	8004	6134	7898	6271	7790	6406	7679	10
51	5857	8106	5997	8002	6136	7896	6273	7788	6408	7677	9
52	5859	8104	6000	8000	6138	7894	6275	7786	6410	7675	8
53	5861	8102	6002	7999	6141	7893	6277	7784	6412	7674	7
54	5864	8100	6004	7997	6143	7891	6280	7782	6414	7672	6
55	5866	8099	6007	7995	6145	7889	6282	7781	6417	7670	5
56	5868	8097	6009	7993	6147	7887	6284	7779	6419	7668	4
57	5871	8095	6011	7992	6150	7885	6286	7777	6421	7666	3
58	5873	8094	6014	7990	6152	7884	6289	7775	6423	7664	2
59	5875	8092	6016	7988	6154	7882	6291	7773	6426	7662	1
60	5878	8090	6018	7986	6157	7880	6293	7771	6428	7660	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
	54°		53°		52°		51°		50°		

TABLE V. — NATURAL SINES AND COSINES

	40°		41°		42°		43°		44°		
	sin	cos	sin	cos	sin	cos	sin	cos	sin	cos	
0	6428	7660	6561	7547	6691	7431	6820	7314	6947	7193	60
1	6430	7659	6563	7545	6693	7430	6822	7312	6949	7191	59
2	6432	7657	6565	7543	6696	7428	6824	7310	6951	7189	58
3	6435	7655	6567	7541	6698	7426	6826	7308	6953	7187	57
4	6437	7653	6569	7539	6700	7424	6828	7306	6955	7185	56
5	6439	7651	6572	7538	6702	7422	6831	7304	6957	7183	55
6	6441	7649	6574	7536	6704	7420	6833	7302	6959	7181	54
7	6443	7647	6576	7534	6706	7418	6835	7300	6961	7179	53
8	6446	7645	6578	7532	6709	7416	6837	7298	6963	7177	52
9	6448	7644	6580	7530	6711	7414	6839	7296	6965	7175	51
10	6450	7642	6583	7528	6713	7412	6841	7294	6967	7173	50
11	6452	7640	6585	7526	6715	7410	6843	7292	6970	7171	49
12	6455	7638	6587	7524	6717	7408	6845	7290	6972	7169	48
13	6457	7636	6589	7522	6719	7406	6848	7288	6974	7167	47
14	6459	7634	6591	7520	6722	7404	6850	7286	6976	7165	46
15	6461	7632	6593	7518	6724	7402	6852	7284	6978	7163	45
16	6463	7630	6596	7516	6726	7400	6854	7282	6980	7161	44
17	6466	7629	6598	7515	6728	7398	6856	7280	6982	7159	43
18	6468	7627	6600	7513	6730	7396	6858	7278	6984	7157	42
19	6470	7625	6602	7511	6732	7394	6860	7276	6986	7155	41
20	6472	7623	6604	7509	6734	7392	6862	7274	6988	7153	40
21	6475	7621	6607	7507	6737	7390	6865	7272	6990	7151	39
22	6477	7619	6609	7505	6739	7388	6867	7270	6992	7149	38
23	6479	7617	6611	7503	6741	7387	6869	7268	6995	7147	37
24	6481	7615	6613	7501	6743	7385	6871	7266	6997	7145	36
25	6483	7613	6615	7499	6745	7383	6873	7264	6999	7143	35
26	6486	7612	6617	7497	6747	7381	6875	7262	7001	7141	34
27	6488	7610	6620	7495	6749	7379	6877	7260	7003	7139	33
28	6490	7608	6622	7493	6752	7377	6879	7258	7005	7137	32
29	6492	7606	6624	7491	6754	7375	6881	7256	7007	7135	31
30	6494	7604	6626	7490	6756	7373	6884	7254	7009	7133	30
31	6497	7602	6628	7488	6758	7371	6886	7252	7011	7130	29
32	6499	7600	6631	7486	6760	7369	6888	7250	7013	7128	28
33	6501	7598	6633	7484	6762	7367	6890	7248	7015	7126	27
34	6503	7596	6635	7482	6764	7365	6892	7246	7017	7124	26
35	6506	7595	6637	7480	6767	7363	6894	7244	7019	7122	25
36	6508	7593	6639	7478	6769	7361	6896	7242	7022	7120	24
37	6510	7591	6641	7476	6771	7359	6898	7240	7024	7118	23
38	6512	7589	6644	7474	6773	7357	6900	7238	7026	7116	22
39	6514	7587	6646	7472	6775	7355	6903	7236	7028	7114	21
40	6517	7585	6648	7470	6777	7253	6905	7234	7030	7112	20
41	6519	7583	6650	7468	6779	7351	6907	7232	7032	7110	19
42	6521	7581	6652	7466	6782	7349	6909	7230	7034	7108	18
43	6523	7579	6654	7464	6784	7347	6911	7228	7036	7106	17
44	6525	7578	6657	7463	6786	7345	6913	7226	7038	7104	16
45	6528	7576	6659	7461	6788	7343	6915	7224	7040	7102	15
46	6530	7574	6661	7459	6790	7341	6917	7222	7042	7100	14
47	6532	7572	6663	7457	6792	7339	6919	7220	7044	7098	13
48	6534	7570	6665	7455	6794	7337	6921	7218	7046	7096	12
49	6536	7568	6667	7453	6797	7335	6924	7216	7048	7094	11
50	6539	7566	6670	7451	6799	7333	6926	7214	7050	7092	10
51	6541	7564	6672	7449	6801	7331	6928	7212	7053	7090	9
52	6543	7562	6674	7447	6803	7329	6930	7210	7055	7088	8
53	6545	7560	6676	7445	6805	7327	6932	7208	7057	7085	7
54	6547	7559	6678	7443	6807	7325	6934	7206	7059	7083	6
55	6550	7557	6680	7441	6809	7223	6936	7203	7061	7081	5
56	6552	7555	6683	7439	6811	7321	6938	7201	7063	7079	4
57	6554	7553	6685	7437	6814	7319	6940	7199	7065	7077	3
58	6556	7551	6687	7435	6816	7318	6942	7197	7067	7075	2
59	6558	7549	6689	7433	6818	7316	6944	7195	7069	7073	1
60	6561	7547	6691	7431	6820	7314	6947	7193	7071	7071	0
	cos	sin	cos	sin	cos	sin	cos	sin	cos	sin	
	49°		48°		47°		46°		45°		

TABLE VI.—NATURAL TANGENTS AND COTANGENTS

/	0°		1°		2°		3°		4°		/
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	0000	Infinite	0175	57.2900	0349	28.6363	0524	19.0811	0699	14.3007	60
1	0003	3437.75	0177	56.3506	0352	28.3994	0527	18.9755	0702	14.2411	59
2	0006	1718.87	0180	55.4415	0355	28.1664	0530	18.8711	0705	14.1821	58
3	0009	1145.92	0183	54.5613	0358	27.9372	0533	18.7678	0708	14.1235	57
4	0012	859.436	0186	53.7086	0361	27.7117	0536	18.6656	0711	14.0655	56
5	0015	687.549	0189	52.8821	0364	27.4899	0539	18.5645	0714	14.0079	55
6	0017	572.957	0192	52.0807	0367	27.2715	0542	18.4645	0717	13.9507	54
7	0020	491.106	0195	51.3032	0370	27.0566	0544	18.3655	0720	13.8940	53
8	0023	429.718	0198	50.5485	0373	26.8450	0547	18.2677	0723	13.8378	52
9	0026	381.971	0201	49.8157	0375	26.6367	0550	18.1708	0726	13.7821	51
10	0029	343.774	0204	49.1039	0378	26.4316	0553	18.0750	0729	13.7267	50
11	0032	312.521	0207	48.4121	0381	26.2296	0556	17.9802	0731	13.6719	49
12	0035	286.478	0209	47.7395	0384	26.0307	0559	17.8863	0734	13.6174	48
13	0038	264.441	0212	47.0853	0387	25.8348	0562	17.7934	0737	13.5634	47
14	0041	245.552	0215	46.4489	0390	25.6418	0565	17.7015	0740	13.5098	46
15	0044	229.182	0218	45.8294	0393	25.4517	0568	17.6106	0743	13.4566	45
16	0047	214.858	0221	45.2261	0396	25.2644	0571	17.5205	0746	13.4039	44
17	0049	202.219	0224	44.6386	0399	25.0798	0574	17.4314	0749	13.3515	43
18	0052	190.984	0227	44.0661	0402	24.8978	0577	17.3432	0752	13.2996	42
19	0055	180.932	0230	43.5081	0405	24.7185	0580	17.2558	0755	13.2480	41
20	0058	171.885	0233	42.9641	0407	24.5418	0582	17.1693	0758	13.1969	40
21	0061	163.700	0236	42.4335	0410	24.3675	0585	17.0837	0761	13.1461	39
22	0064	156.259	0239	41.9158	0413	24.1957	0588	16.9990	0764	13.0958	38
23	0067	149.465	0241	41.4106	0416	24.0263	0591	16.9150	0767	13.0458	37
24	0070	143.237	0244	40.9174	0419	23.8593	0594	16.8319	0769	12.9962	36
25	0073	137.507	0247	40.4358	0422	23.6945	0597	16.7496	0772	12.9469	35
26	0076	132.219	0250	39.9655	0425	23.5321	0600	16.6681	0775	12.8981	34
27	0079	127.321	0253	39.5059	0428	23.3718	0603	16.5874	0778	12.8496	33
28	0081	122.774	0256	39.0568	0431	23.2137	0606	16.5075	0781	12.8014	32
29	0084	118.540	0259	38.6177	0434	23.0577	0609	16.4283	0784	12.7536	31
30	0087	114.589	0262	38.1885	0437	22.9038	0612	16.3499	0787	12.7062	30
31	0090	110.892	0265	37.7686	0440	22.7519	0615	16.2722	0790	12.6591	29
32	0093	107.426	0268	37.3579	0442	22.6020	0617	16.1952	0793	12.6124	28
33	0096	104.171	0271	36.9560	0445	22.4541	0620	16.1190	0796	12.5660	27
34	0099	101.107	0274	36.5627	0448	22.3081	0623	16.0435	0799	12.5199	26
35	0102	98.2179	0276	36.1776	0451	22.1640	0626	15.9687	0802	12.4742	25
36	0105	95.4895	0279	35.8006	0454	22.0217	0629	15.8945	0805	12.4288	24
37	0108	92.9085	0282	35.4313	0457	21.8813	0632	15.8211	0808	12.3838	23
38	0111	90.4633	0285	35.0695	0460	21.7426	0635	15.7483	0810	12.3390	22
39	0113	88.1436	0288	34.7151	0463	21.6056	0638	15.6762	0813	12.2946	21
40	0116	85.9398	0291	34.3678	0466	21.4704	0641	15.6048	0816	12.2505	20
41	0119	83.8435	0294	34.0273	0469	21.3369	0644	15.5340	0819	12.2067	19
42	0122	81.8470	0297	33.6935	0472	21.2049	0647	15.4638	0822	12.1632	18
43	0125	79.9434	0300	33.3662	0475	21.0747	0650	15.3943	0825	12.1201	17
44	0128	78.1263	0303	33.0452	0477	20.9460	0653	15.3254	0828	12.0772	16
45	0131	76.3900	0306	32.7303	0480	20.8188	0655	15.2571	0831	12.0346	15
46	0134	74.7292	0308	32.4213	0483	20.6932	0658	15.1893	0834	11.9923	14
47	0137	73.1390	0311	32.1181	0486	20.5691	0661	15.1222	0837	11.9504	13
48	0140	71.6151	0314	31.8205	0489	20.4465	0664	15.0557	0840	11.9087	12
49	0143	70.1533	0317	31.5284	0492	20.3253	0667	14.9898	0843	11.8673	11
50	0146	68.7501	0320	31.2416	0495	20.2056	0670	14.9244	0846	11.8262	10
51	0148	67.4019	0323	30.9599	0498	20.0872	0673	14.8596	0849	11.7853	9
52	0151	66.1055	0326	30.6833	0501	19.9702	0676	14.7954	0851	11.7448	8
53	0154	64.8580	0329	30.4116	0504	19.8546	0679	14.7317	0854	11.7045	7
54	0157	63.6567	0332	30.1446	0507	19.7403	0682	14.6685	0857	11.6645	6
55	0160	62.4992	0335	29.8823	0509	19.6273	0685	14.6059	0860	11.6248	5
56	0163	61.3829	0338	29.6245	0512	19.5156	0688	14.5438	0863	11.5853	4
57	0166	60.3058	0340	29.3711	0515	19.4051	0690	14.4823	0866	11.5461	3
58	0169	59.2659	0343	29.1220	0518	19.2959	0693	14.4212	0869	11.5072	2
59	0172	58.2612	0346	28.8771	0521	19.1879	0696	14.3607	0872	11.4685	1
60	0175	57.2900	0349	28.6363	0524	19.0811	0699	14.3007	0875	11.4301	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
/	89°		88°		87°		86°		85°		/

TABLE VI.—NATURAL TANGENTS AND COTANGENTS

°	5°		6°		7°		8°		9°		°
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	0875	11.4301	1051	9.5144	1228	8.1443	1405	7.1154	1584	6.3138	60
1	0878	11.3919	1054	9.4878	1231	8.1248	1408	7.1004	1587	6.3019	59
2	0881	11.3540	1057	9.4614	1234	8.1054	1411	7.0855	1590	6.2901	58
3	0884	11.3163	1060	9.4352	1237	8.0860	1414	7.0706	1593	6.2783	57
4	0887	11.2789	1063	9.4090	1240	8.0667	1417	7.0558	1596	6.2666	56
5	0890	11.2417	1066	9.3831	1243	8.0476	1420	7.0410	1599	6.2549	55
6	0892	11.2048	1069	9.3572	1246	8.0285	1423	7.0264	1602	6.2432	54
7	0895	11.1681	1072	9.3315	1249	8.0095	1426	7.0117	1605	6.2316	53
8	0898	11.1316	1075	9.3060	1251	7.9906	1429	6.9972	1608	6.2200	52
9	0901	11.0954	1078	9.2806	1254	7.9718	1432	6.9827	1611	6.2085	51
10	0904	11.0594	1080	9.2553	1257	7.9530	1435	6.9682	1614	6.1970	50
11	0907	11.0237	1083	9.2302	1260	7.9344	1438	6.9538	1617	6.1856	49
12	0910	10.9882	1086	9.2052	1263	7.9158	1441	6.9395	1620	6.1742	48
13	0913	10.9529	1089	9.1803	1266	7.8973	1444	6.9252	1623	6.1628	47
14	0916	10.9178	1092	9.1555	1269	7.8789	1447	6.9110	1626	6.1515	46
15	0919	10.8829	1095	9.1309	1272	7.8606	1450	6.8969	1629	6.1402	45
16	0922	10.8483	1098	9.1065	1275	7.8424	1453	6.8828	1632	6.1290	44
17	0925	10.8139	1101	9.0821	1278	7.8243	1456	6.8687	1635	6.1178	43
18	0928	10.7797	1104	9.0579	1281	7.8062	1459	6.8548	1638	6.1066	42
19	0931	10.7457	1107	9.0338	1284	7.7883	1462	6.8408	1641	6.0955	41
20	0934	10.7119	1110	9.0098	1287	7.7704	1465	6.8269	1644	6.0844	40
21	0936	10.6783	1113	8.9860	1290	7.7525	1468	6.8131	1647	6.0734	39
22	0939	10.6450	1116	8.9623	1293	7.7348	1471	6.7994	1650	6.0624	38
23	0942	10.6118	1119	8.9387	1296	7.7171	1474	6.7856	1653	6.0514	37
24	0945	10.5789	1122	8.9152	1299	7.6996	1477	6.7720	1655	6.0405	36
25	0948	10.5462	1125	8.8919	1302	7.6821	1480	6.7584	1658	6.0296	35
26	0951	10.5136	1128	8.8686	1305	7.6647	1483	6.7448	1661	6.0188	34
27	0954	10.4813	1131	8.8455	1308	7.6473	1486	6.7313	1664	6.0080	33
28	0957	10.4491	1134	8.8225	1311	7.6301	1489	6.7179	1667	5.9972	32
29	0960	10.4172	1136	8.7996	1314	7.6129	1492	6.7045	1670	5.9865	31
30	0963	10.3854	1139	8.7769	1317	7.5958	1495	6.6912	1673	5.9758	30
31	0966	10.3538	1142	8.7542	1319	7.5787	1497	6.6779	1676	5.9651	29
32	0969	10.3224	1145	8.7317	1322	7.5618	1500	6.6646	1679	5.9545	28
33	0972	10.2913	1148	8.7093	1325	7.5449	1503	6.6514	1682	5.9439	27
34	0975	10.2602	1151	8.6870	1328	7.5281	1506	6.6383	1685	5.9333	26
35	0978	10.2294	1154	8.6648	1331	7.5113	1509	6.6252	1688	5.9228	25
36	0981	10.1988	1157	8.6427	1334	7.4947	1512	6.6122	1691	5.9124	24
37	0983	10.1683	1160	8.6208	1337	7.4781	1515	6.5992	1694	5.9019	23
38	0986	10.1381	1163	8.5989	1340	7.4615	1518	6.5863	1697	5.8915	22
39	0989	10.1080	1166	8.5772	1343	7.4451	1521	6.5734	1700	5.8811	21
40	0992	10.0780	1169	8.5555	1346	7.4287	1524	6.5606	1703	5.8708	20
41	0995	10.0483	1172	8.5340	1349	7.4124	1527	6.5478	1706	5.8605	19
42	0998	10.0187	1175	8.5126	1352	7.3962	1530	6.5350	1709	5.8502	18
43	1001	9.9893	1178	8.4913	1355	7.3800	1533	6.5223	1712	5.8400	17
44	1004	9.9601	1181	8.4701	1358	7.3639	1536	6.5097	1715	5.8298	16
45	1007	9.9310	1184	8.4490	1361	7.3479	1539	6.4971	1718	5.8197	15
46	1010	9.9021	1187	8.4280	1364	7.3319	1542	6.4846	1721	5.8095	14
47	1013	9.8734	1189	8.4071	1367	7.3160	1545	6.4721	1724	5.7994	13
48	1016	9.8448	1192	8.3863	1370	7.3002	1548	6.4596	1727	5.7894	12
49	1019	9.8164	1195	8.3656	1373	7.2844	1551	6.4472	1730	5.7794	12
50	1022	9.7882	1198	8.3450	1376	7.2687	1554	6.4348	1733	5.7694	10
51	1025	9.7601	1201	8.3245	1379	7.2531	1557	6.4225	1736	5.7594	9
52	1028	9.7322	1204	8.3041	1382	7.2375	1560	6.4103	1739	5.7495	8
53	1030	9.7044	1207	8.2838	1385	7.2220	1563	6.3980	1742	5.7396	7
54	1033	9.6768	1210	8.2636	1388	7.2066	1566	6.3859	1745	5.7297	6
55	1036	9.6499	1213	8.2434	1391	7.1912	1569	6.3737	1748	5.7199	5
56	1039	9.6220	1216	8.2234	1394	7.1759	1572	6.3617	1751	5.7101	4
57	1042	9.5949	1219	8.2035	1397	7.1607	1575	6.3496	1754	5.7004	3
58	1045	9.5679	1222	8.1837	1399	7.1455	1578	6.3376	1757	5.6906	2
59	1048	9.5411	1225	8.1640	1402	7.1304	1581	6.3257	1760	5.6809	1
60	1051	9.5144	1228	8.1443	1405	7.1154	1584	6.3138	1763	5.6713	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
	84°		83°		82°		81°		80°		

TABLE VI.—NATURAL TANGENTS AND COTANGENTS

°	10°		11°		12°		13°		14°		°
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	1763	5.6713	1944	5.1446	2126	4.7046	2309	4.3315	2493	4.0108	60
1	1766	5.6617	1947	5.1366	2129	4.6979	2312	4.3257	2496	4.0058	59
2	1769	5.6521	1950	5.1286	2132	4.6912	2315	4.3200	2499	4.0009	58
3	1772	5.6425	1953	5.1207	2135	4.6845	2318	4.3143	2503	3.9959	57
4	1775	5.6330	1956	5.1128	2138	4.6779	2321	4.3086	2506	3.9910	56
5	1778	5.6234	1959	5.1049	2141	4.6712	2324	4.3029	2509	3.9861	55
6	1781	5.6140	1962	5.0970	2144	4.6646	2327	4.2972	2512	3.9812	54
7	1784	5.6045	1965	5.0892	2147	4.6580	2330	4.2916	2515	3.9763	53
8	1787	5.5951	1968	5.0814	2150	4.6514	2333	4.2859	2518	3.9714	52
9	1790	5.5857	1971	5.0736	2153	4.6448	2336	4.2803	2521	3.9665	51
10	1793	5.5764	1974	5.0658	2156	4.6382	2339	4.2747	2524	3.9617	50
11	1796	5.5671	1977	5.0581	2159	4.6317	2342	4.2691	2527	3.9568	49
12	1799	5.5578	1980	5.0504	2162	4.6252	2345	4.2635	2530	3.9520	48
13	1802	5.5485	1983	5.0427	2165	4.6187	2349	4.2580	2533	3.9471	47
14	1805	5.5393	1986	5.0350	2168	4.6122	2352	4.2524	2537	3.9423	46
15	1808	5.5301	1989	5.0273	2171	4.6057	2355	4.2468	2540	3.9375	45
16	1811	5.5209	1992	5.0197	2174	4.5993	2358	4.2413	2543	3.9327	44
17	1814	5.5118	1995	5.0121	2177	4.5928	2361	4.2358	2546	3.9279	43
18	1817	5.5026	1998	5.0045	2180	4.5864	2364	4.2303	2549	3.9232	42
19	1820	5.4936	2001	4.9969	2183	4.5800	2367	4.2248	2552	3.9184	41
20	1823	5.4845	2004	4.9894	2186	4.5736	2370	4.2193	2555	3.9136	40
21	1826	5.4755	2007	4.9819	2189	4.5673	2373	4.2139	2558	3.9089	39
22	1829	5.4665	2010	4.9744	2193	4.5609	2376	4.2084	2561	3.9042	38
23	1832	5.4575	2013	4.9669	2196	4.5546	2379	4.2030	2564	3.8995	37
24	1835	5.4486	2016	4.9594	2199	4.5483	2382	4.1976	2568	3.8947	36
25	1838	5.4397	2019	4.9520	2202	4.5420	2385	4.1922	2571	3.8900	35
26	1841	5.4308	2022	4.9446	2205	4.5357	2388	4.1868	2574	3.8854	34
27	1844	5.4219	2025	4.9372	2208	4.5294	2392	4.1814	2577	3.8807	33
28	1847	5.4131	2028	4.9298	2211	4.5232	2395	4.1760	2580	3.8760	32
29	1850	5.4043	2031	4.9225	2214	4.5169	2398	4.1706	2583	3.8714	31
30	1853	5.3955	2035	4.9152	2217	4.5107	2401	4.1653	2586	3.8667	30
31	1856	5.3868	2038	4.9078	2220	4.5045	2404	4.1600	2589	3.8621	29
32	1859	5.3781	2041	4.9006	2223	4.4983	2407	4.1547	2592	3.8575	28
33	1862	5.3694	2044	4.8933	2226	4.4922	2410	4.1493	2595	3.8528	27
34	1865	5.3607	2047	4.8860	2229	4.4860	2413	4.1441	2599	3.8482	26
35	1868	5.3521	2050	4.8788	2232	4.4799	2416	4.1388	2602	3.8436	25
36	1871	5.3435	2053	4.8716	2235	4.4737	2419	4.1335	2605	3.8391	24
37	1874	5.3349	2056	4.8644	2238	4.4676	2422	4.1282	2608	3.8345	23
38	1877	5.3263	2059	4.8573	2241	4.4615	2425	4.1230	2611	3.8299	22
39	1880	5.3178	2062	4.8501	2244	4.4555	2428	4.1178	2614	3.8254	21
40	1883	5.3093	2065	4.8430	2247	4.4494	2432	4.1126	2617	3.8208	20
41	1887	5.3008	2068	4.8359	2251	4.4434	2435	4.1074	2620	3.8163	19
42	1890	5.2924	2071	4.8288	2254	4.4374	2438	4.1022	2623	3.8118	18
43	1893	5.2839	2074	4.8218	2257	4.4313	2441	4.0970	2627	3.8073	17
44	1896	5.2755	2077	4.8147	2260	4.4253	2444	4.0918	2630	3.8028	16
45	1899	5.2672	2080	4.8077	2263	4.4194	2447	4.0867	2633	3.7983	15
46	1902	5.2588	2083	4.8007	2266	4.4134	2450	4.0815	2636	3.7938	14
47	1905	5.2505	2086	4.7937	2269	4.4075	2453	4.0764	2639	3.7893	13
48	1908	5.2422	2089	4.7867	2272	4.4015	2456	4.0713	2642	3.7848	12
49	1911	5.2339	2092	4.7798	2275	4.3956	2459	4.0662	2645	3.7804	11
50	1914	5.2257	2095	4.7729	2278	4.3897	2462	4.0611	2648	3.7760	10
51	1917	5.2174	2098	4.7659	2281	4.3838	2465	4.0560	2651	3.7715	9
52	1920	5.2092	2101	4.7591	2284	4.3779	2469	4.0509	2655	3.7671	8
53	1923	5.2011	2104	4.7522	2287	4.3721	2472	4.0459	2658	3.7627	7
54	1926	5.1929	2107	4.7453	2290	4.3662	2475	4.0408	2661	3.7583	6
55	1929	5.1848	2110	4.7385	2293	4.3604	2478	4.0358	2664	3.7539	5
56	1932	5.1767	2113	4.7317	2296	4.3546	2481	4.0308	2667	3.7495	4
57	1935	5.1686	2116	4.7249	2299	4.3488	2484	4.0257	2670	3.7451	3
58	1938	5.1606	2119	4.7181	2303	4.3430	2487	4.0207	2673	3.7408	2
59	1941	5.1526	2123	4.7114	2306	4.3372	2490	4.0158	2676	3.7364	1
60	1944	5.1446	2126	4.7046	2309	4.3315	2493	4.0108	2679	3.7321	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
	79°		78°		77°		76°		75°		

TABLE VI. — NATURAL TANGENTS AND COTANGENTS

/	15°		16°		17°		18°		19°		/
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	2679	3.7321	2867	3.4874	3057	3.2709	3249	3.0777	3443	2.9042	60
1	2683	3.7277	2871	3.4836	3060	3.2675	3252	3.0746	3447	2.9015	59
2	2686	3.7234	2874	3.4798	3064	3.2641	3256	3.0716	3450	2.8987	58
3	2689	3.7191	2877	3.4760	3067	3.2607	3259	3.0686	3453	2.8960	57
4	2692	3.7148	2880	3.4722	3070	3.2573	3262	3.0655	3456	2.8933	56
5	2695	3.7105	2883	3.4684	3073	3.2539	3265	3.0625	3460	2.8905	55
6	2698	3.7062	2886	3.4646	3076	3.2506	3269	3.0595	3463	2.8878	54
7	2701	3.7019	2890	3.4608	3080	3.2472	3272	3.0565	3466	2.8851	53
8	2704	3.6976	2893	3.4570	3083	3.2438	3275	3.0535	3469	2.8824	52
9	2708	3.6933	2896	3.4533	3086	3.2405	3278	3.0505	3473	2.8797	51
10	2711	3.6891	2899	3.4495	3089	3.2371	3281	3.0475	3476	2.8770	50
11	2714	3.6848	2902	3.4458	3092	3.2338	3285	3.0445	3479	2.8743	49
12	2717	3.6806	2905	3.4420	3096	3.2305	3288	3.0415	3482	2.8716	48
13	2720	3.6764	2908	3.4383	3099	3.2272	3291	3.0385	3486	2.8689	47
14	2723	3.6722	2912	3.4346	3102	3.2238	3294	3.0356	3489	2.8662	46
15	2726	3.6680	2915	3.4308	3105	3.2205	3298	3.0326	3492	2.8636	45
16	2729	3.6638	2918	3.4271	3108	3.2172	3301	3.0296	3495	2.8609	44
17	2733	3.6596	2921	3.4234	3111	3.2139	3304	3.0267	3499	2.8582	43
18	2736	3.6554	2924	3.4197	3115	3.2106	3307	3.0237	3502	2.8556	42
19	2739	3.6512	2927	3.4160	3118	3.2073	3310	3.0208	3505	2.8529	41
20	2742	3.6470	2931	3.4124	3121	3.2041	3314	3.0178	3508	2.8502	40
21	2745	3.6429	2934	3.4087	3124	3.2008	3317	3.0149	3512	2.8476	39
22	2748	3.6387	2937	3.4050	3127	3.1975	3320	3.0120	3515	2.8449	38
23	2751	3.6346	2940	3.4014	3131	3.1943	3323	3.0090	3518	2.8423	37
24	2754	3.6305	2943	3.3977	3134	3.1910	3327	3.0061	3522	2.8397	36
25	2758	3.6264	2946	3.3941	3137	3.1878	3330	3.0032	3525	2.8370	35
26	2761	3.6222	2949	3.3904	3140	3.1845	3333	3.0003	3528	2.8344	34
27	2764	3.6181	2953	3.3868	3143	3.1813	3336	2.9974	3531	2.8318	33
28	2767	3.6140	2956	3.3832	3147	3.1780	3339	2.9945	3535	2.8291	32
29	2770	3.6100	2959	3.3796	3150	3.1748	3343	2.9916	3538	2.8265	31
30	2773	3.6059	2962	3.3759	3153	3.1716	3346	2.9887	3541	2.8239	30
31	2776	3.6018	2965	3.3723	3156	3.1684	3349	2.9858	3544	2.8213	29
32	2780	3.5978	2968	3.3687	3159	3.1652	3352	2.9829	3548	2.8187	28
33	2783	3.5937	2972	3.3652	3163	3.1620	3356	2.9800	3551	2.8161	27
34	2786	3.5897	2975	3.3616	3166	3.1588	3359	2.9772	3554	2.8135	26
35	2789	3.5856	2978	3.3580	3169	3.1556	3362	2.9743	3558	2.8109	25
36	2792	3.5816	2981	3.3544	3172	3.1524	3365	2.9714	3561	2.8083	24
37	2795	3.5776	2984	3.3509	3175	3.1492	3369	2.9686	3564	2.8057	23
38	2798	3.5736	2987	3.3473	3179	3.1460	3372	2.9657	3567	2.8032	22
39	2801	3.5696	2991	3.3438	3182	3.1429	3375	2.9629	3571	2.8006	21
40	2805	3.5656	2994	3.3402	3185	3.1397	3378	2.9600	3574	2.7980	20
41	2808	3.5616	2997	3.3367	3188	3.1366	3382	2.9572	3577	2.7955	19
42	2811	3.5576	3000	3.3332	3191	3.1334	3385	2.9544	3581	2.7929	18
43	2814	3.5536	3003	3.3297	3195	3.1303	3388	2.9515	3584	2.7903	17
44	2817	3.5497	3006	3.3261	3198	3.1271	3391	2.9487	3587	2.7878	16
45	2820	3.5457	3010	3.3226	3201	3.1240	3395	2.9459	3590	2.7852	15
46	2823	3.5418	3013	3.3191	3204	3.1209	3398	2.9431	3594	2.7827	14
47	2827	3.5379	3016	3.3156	3207	3.1178	3401	2.9403	3597	2.7801	13
48	2830	3.5339	3019	3.3122	3211	3.1146	3404	2.9375	3600	2.7776	12
49	2833	3.5300	3022	3.3087	3214	3.1115	3408	2.9347	3604	2.7751	11
50	2836	3.5261	3026	3.3052	3217	3.1084	3411	2.9319	3607	2.7725	10
51	2839	3.5222	3029	3.3017	3220	3.1053	3414	2.9291	3610	2.7700	9
52	2842	3.5183	3032	3.2983	3223	3.1022	3417	2.9263	3613	2.7675	8
53	2845	3.5144	3035	3.2948	3227	3.0991	3421	2.9235	3617	2.7650	7
54	2849	3.5105	3038	3.2914	3230	3.0961	3424	2.9208	3620	2.7625	6
55	2852	3.5067	3041	3.2880	3233	3.0930	3427	2.9180	3623	2.7600	5
56	2855	3.5028	3045	3.2845	3236	3.0899	3430	2.9152	3627	2.7575	4
57	2858	3.4989	3048	3.2811	3240	3.0868	3434	2.9125	3630	2.7550	3
58	2861	3.4951	3051	3.2777	3243	3.0838	3437	2.9097	3633	2.7525	2
59	2864	3.4912	3054	3.2743	3246	3.0807	3440	2.9070	3636	2.7500	1
60	2867	3.4874	3057	3.2709	3249	3.0777	3443	2.9042	3640	2.7475	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
/	74°		73°		72°		71°		70°		/

TABLE VI. — NATURAL TANGENTS AND COTANGENTS

/	20°		21°		22°		23°		24°		/
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	3640	2.7475	3839	2.6051	4040	2.4751	4245	2.3559	4452	2.2460	60
1	3643	2.7450	3842	2.6028	4044	2.4730	4248	2.3539	4456	2.2443	59
2	3646	2.7425	3845	2.6006	4047	2.4709	4252	2.3520	4459	2.2425	58
3	3650	2.7400	3849	2.5983	4050	2.4689	4255	2.3501	4463	2.2408	57
4	3653	2.7376	3852	2.5961	4054	2.4668	4258	2.3483	4466	2.2390	56
5	3656	2.7351	3855	2.5938	4057	2.4648	4262	2.3464	4470	2.2373	55
6	3659	2.7326	3859	2.5916	4061	2.4627	4265	2.3445	4473	2.2355	54
7	3663	2.7302	3862	2.5893	4064	2.4606	4269	2.3426	4477	2.2338	53
8	3666	2.7277	3865	2.5871	4067	2.4586	4272	2.3407	4480	2.2320	52
9	3669	2.7253	3869	2.5848	4071	2.4566	4276	2.3388	4484	2.2303	51
10	3673	2.7228	3872	2.5826	4074	2.4545	4279	2.3369	4487	2.2286	50
11	3676	2.7204	3875	2.5804	4078	2.4525	4283	2.3351	4491	2.2268	49
12	3679	2.7179	3879	2.5782	4081	2.4504	4286	2.3332	4494	2.2251	48
13	3683	2.7155	3882	2.5759	4084	2.4484	4289	2.3313	4498	2.2234	47
14	3686	2.7130	3885	2.5737	4088	2.4464	4293	2.3294	4501	2.2216	46
15	3689	2.7106	3889	2.5715	4091	2.4443	4296	2.3276	4505	2.2199	45
16	3693	2.7082	3892	2.5693	4095	2.4423	4300	2.3257	4508	2.2182	44
17	3696	2.7058	3895	2.5671	4098	2.4403	4303	2.3238	4512	2.2165	43
18	3699	2.7034	3899	2.5649	4101	2.4383	4307	2.3220	4515	2.2148	42
19	3702	2.7009	3902	2.5627	4105	2.4362	4310	2.3201	4519	2.2130	41
20	3706	2.6985	3906	2.5605	4108	2.4342	4314	2.3183	4522	2.2113	40
21	3709	2.6961	3909	2.5583	4111	2.4322	4317	2.3164	4526	2.2096	39
22	3712	2.6937	3912	2.5561	4115	2.4302	4320	2.3146	4529	2.2079	38
23	3716	2.6913	3916	2.5539	4118	2.4282	4324	2.3127	4533	2.2062	37
24	3719	2.6889	3919	2.5517	4122	2.4262	4327	2.3109	4536	2.2045	36
25	3722	2.6865	3922	2.5495	4125	2.4242	4331	2.3090	4540	2.2028	35
26	3726	2.6841	3926	2.5473	4129	2.4222	4334	2.3072	4543	2.2011	34
27	3729	2.6818	3929	2.5452	4132	2.4202	4338	2.3053	4547	2.1994	33
28	3732	2.6794	3932	2.5430	4135	2.4182	4341	2.3035	4550	2.1977	32
29	3736	2.6770	3936	2.5408	4139	2.4162	4345	2.3017	4554	2.1960	31
30	3739	2.6746	3939	2.5386	4142	2.4142	4348	2.2998	4557	2.1943	30
31	3742	2.6723	3942	2.5365	4146	2.4122	4352	2.2980	4561	2.1926	29
32	3745	2.6699	3946	2.5343	4149	2.4102	4355	2.2962	4564	2.1909	28
33	3749	2.6675	3949	2.5322	4152	2.4083	4359	2.2944	4568	2.1892	27
34	3752	2.6652	3953	2.5300	4156	2.4063	4362	2.2925	4571	2.1876	26
35	3755	2.6628	3956	2.5279	4159	2.4043	4365	2.2907	4575	2.1859	25
36	3759	2.6605	3959	2.5257	4163	2.4023	4369	2.2889	4578	2.1842	24
37	3762	2.6581	3963	2.5236	4166	2.4004	4372	2.2871	4582	2.1825	23
38	3765	2.6558	3966	2.5214	4169	2.3984	4376	2.2853	4585	2.1808	22
39	3769	2.6534	3969	2.5193	4173	2.3964	4379	2.2835	4589	2.1792	21
40	3772	2.6511	3973	2.5172	4176	2.3945	4383	2.2817	4592	2.1775	20
41	3775	2.6488	3976	2.5150	4180	2.3925	4386	2.2799	4596	2.1758	19
42	3779	2.6464	3979	2.5129	4183	2.3906	4390	2.2781	4599	2.1742	18
43	3782	2.6441	3983	2.5108	4187	2.3886	4393	2.2763	4603	2.1725	17
44	3785	2.6418	3986	2.5086	4190	2.3867	4397	2.2745	4607	2.1708	16
45	3789	2.6395	3990	2.5065	4193	2.3847	4400	2.2727	4610	2.1692	15
46	3792	2.6371	3993	2.5044	4197	2.3828	4404	2.2709	4614	2.1675	14
47	3795	2.6348	3996	2.5023	4200	2.3808	4407	2.2691	4617	2.1659	13
48	3799	2.6325	4000	2.5002	4204	2.3789	4411	2.2673	4621	2.1642	12
49	3802	2.6302	4003	2.4981	4207	2.3770	4414	2.2655	4624	2.1625	11
50	3805	2.6279	4006	2.4960	4210	2.3750	4417	2.2637	4628	2.1609	10
51	3809	2.6256	4010	2.4939	4214	2.3731	4421	2.2620	4631	2.1592	9
52	3812	2.6233	4013	2.4918	4217	2.3712	4424	2.2602	4635	2.1576	8
53	3815	2.6210	4017	2.4897	4221	2.3693	4428	2.2584	4638	2.1560	7
54	3819	2.6187	4020	2.4876	4224	2.3673	4431	2.2566	4642	2.1543	6
55	3822	2.6165	4023	2.4855	4228	2.3654	4435	2.2549	4645	2.1527	5
56	3825	2.6142	4027	2.4834	4231	2.3635	4438	2.2531	4649	2.1510	4
57	3829	2.6119	4030	2.4813	4234	2.3616	4442	2.2513	4652	2.1494	3
58	3832	2.6096	4033	2.4792	4238	2.3597	4445	2.2496	4656	2.1478	2
59	3835	2.6074	4037	2.4772	4241	2.3578	4449	2.2478	4660	2.1461	1
60	3839	2.6051	4040	2.4751	4245	2.3559	4452	2.2460	4663	2.1445	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
/	69°		68°		67°		66°		65°	/	

TABLE VI. — NATURAL TANGENTS AND COTANGENTS

/	25°		26°		27°		28°		29°		/
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	4663	2.1445	4877	2.0503	5095	1.9626	5317	1.8807	5543	1.8040	60
1	4667	2.1429	4881	2.0488	5099	1.9612	5321	1.8794	5547	1.8028	59
2	4670	2.1413	4885	2.0473	5103	1.9598	5325	1.8781	5551	1.8016	58
3	4674	2.1396	4888	2.0458	5106	1.9584	5328	1.8768	5555	1.8003	57
4	4677	2.1380	4892	2.0443	5110	1.9570	5332	1.8755	5558	1.7991	56
5	4681	2.1364	4895	2.0428	5114	1.9556	5336	1.8741	5562	1.7979	55
6	4684	2.1348	4899	2.0413	5117	1.9542	5340	1.8728	5566	1.7966	54
7	4688	2.1332	4903	2.0398	5121	1.9528	5343	1.8715	5570	1.7954	53
8	4691	2.1315	4906	2.0383	5125	1.9514	5347	1.8702	5574	1.7942	52
9	4695	2.1299	4910	2.0368	5128	1.9500	5351	1.8689	5577	1.7930	51
10	4699	2.1283	4913	2.0353	5132	1.9486	5354	1.8676	5581	1.7917	50
11	4702	2.1267	4917	2.0338	5136	1.9472	5358	1.8663	5585	1.7905	49
12	4706	2.1251	4921	2.0323	5139	1.9458	5362	1.8650	5589	1.7893	48
13	4709	2.1235	4924	2.0308	5143	1.9444	5366	1.8637	5593	1.7881	47
14	4713	2.1219	4928	2.0293	5147	1.9430	5369	1.8624	5596	1.7868	46
15	4716	2.1203	4931	2.0278	5150	1.9416	5373	1.8611	5600	1.7856	45
16	4720	2.1187	4935	2.0263	5154	1.9402	5377	1.8598	5604	1.7844	44
17	4723	2.1171	4939	2.0248	5158	1.9388	5381	1.8585	5608	1.7832	43
18	4727	2.1155	4942	2.0233	5161	1.9375	5384	1.8572	5612	1.7820	42
19	4731	2.1139	4946	2.0219	5165	1.9361	5388	1.8559	5616	1.7808	41
20	4734	2.1123	4950	2.0204	5169	1.9347	5392	1.8546	5619	1.7796	40
21	4738	2.1107	4953	2.0189	5172	1.9333	5396	1.8533	5623	1.7783	39
22	4741	2.1092	4957	2.0174	5176	1.9319	5399	1.8520	5627	1.7771	38
23	4745	2.1076	4960	2.0160	5180	1.9306	5403	1.8507	5631	1.7759	37
24	4748	2.1060	4964	2.0145	5184	1.9292	5407	1.8495	5635	1.7747	36
25	4752	2.1044	4968	2.0130	5187	1.9278	5411	1.8482	5639	1.7735	35
26	4755	2.1028	4971	2.0115	5191	1.9265	5415	1.8469	5642	1.7723	34
27	4759	2.1013	4975	2.0101	5195	1.9251	5418	1.8456	5646	1.7711	33
28	4763	2.0997	4979	2.0086	5198	1.9237	5422	1.8443	5650	1.7699	32
29	4766	2.0981	4982	2.0072	5202	1.9223	5426	1.8430	5654	1.7687	31
30	4770	2.0965	4986	2.0057	5206	1.9210	5430	1.8418	5658	1.7675	30
31	4773	2.0950	4989	2.0042	5209	1.9196	5433	1.8405	5662	1.7663	29
32	4777	2.0934	4993	2.0028	5213	1.9183	5437	1.8392	5665	1.7651	28
33	4780	2.0918	4997	2.0013	5217	1.9169	5441	1.8379	5669	1.7639	27
34	4784	2.0903	5000	1.9999	5220	1.9155	5445	1.8367	5673	1.7627	26
35	4788	2.0887	5004	1.9984	5224	1.9142	5448	1.8354	5677	1.7615	25
36	4791	2.0872	5008	1.9970	5228	1.9128	5452	1.8341	5681	1.7603	24
37	4795	2.0856	5011	1.9955	5232	1.9115	5456	1.8329	5685	1.7591	23
38	4798	2.0840	5015	1.9941	5235	1.9101	5460	1.8316	5688	1.7579	22
39	4802	2.0825	5019	1.9926	5239	1.9088	5464	1.8303	5692	1.7567	21
40	4806	2.0809	5022	1.9912	5243	1.9074	5467	1.8291	5696	1.7556	20
41	4809	2.0794	5026	1.9897	5246	1.9061	5471	1.8278	5700	1.7544	19
42	4813	2.0778	5029	1.9883	5250	1.9047	5475	1.8265	5704	1.7532	18
43	4816	2.0763	5033	1.9868	5254	1.9034	5479	1.8253	5708	1.7520	17
44	4820	2.0748	5037	1.9854	5258	1.9020	5482	1.8240	5712	1.7508	16
45	4823	2.0732	5040	1.9840	5261	1.9007	5486	1.8228	5715	1.7496	15
46	4827	2.0717	5044	1.9825	5265	1.8993	5490	1.8215	5719	1.7485	14
47	4831	2.0701	5048	1.9811	5269	1.8980	5494	1.8202	5723	1.7473	13
48	4834	2.0686	5051	1.9797	5272	1.8967	5498	1.8190	5727	1.7461	12
49	4838	2.0671	5055	1.9782	5276	1.8953	5501	1.8177	5731	1.7449	11
50	4841	2.0655	5059	1.9768	5280	1.8940	5505	1.8165	5735	1.7437	10
51	4845	2.0640	5062	1.9754	5284	1.8927	5509	1.8152	5739	1.7426	9
52	4849	2.0625	5066	1.9740	5287	1.8913	5513	1.8140	5743	1.7414	8
53	4852	2.0609	5070	1.9725	5291	1.8900	5517	1.8127	5746	1.7402	7
54	4856	2.0594	5073	1.9711	5295	1.8887	5520	1.8115	5750	1.7391	6
55	4859	2.0579	5077	1.9697	5298	1.8873	5524	1.8103	5754	1.7379	5
56	4863	2.0564	5081	1.9683	5302	1.8860	5528	1.8090	5758	1.7367	4
57	4867	2.0549	5084	1.9669	5306	1.8847	5532	1.8078	5762	1.7355	3
58	4870	2.0533	5088	1.9654	5310	1.8834	5535	1.8065	5766	1.7344	2
59	4874	2.0518	5092	1.9640	5313	1.8820	5539	1.8053	5770	1.7332	1
60	4877	2.0503	5095	1.9626	5317	1.8807	5543	1.8040	5774	1.7321	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
/	64°		63°		62°		61°		60°		/

TABLE VI. — NATURAL TANGENTS AND COTANGENTS

°	30°		31°		32°		33°		34°		°
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	5774	1.7321	6009	1.6643	6249	1.6003	6494	1.5399	6745	1.4826	60
1	5777	1.7309	6013	1.6632	6253	1.5993	6498	1.5389	6749	1.4816	59
2	5781	1.7297	6017	1.6621	6257	1.5983	6502	1.5379	6754	1.4807	58
3	5785	1.7286	6020	1.6610	6261	1.5972	6506	1.5369	6758	1.4798	57
4	5789	1.7274	6024	1.6599	6265	1.5962	6511	1.5359	6762	1.4788	56
5	5793	1.7262	6028	1.6588	6269	1.5952	6515	1.5350	6766	1.4779	55
6	5797	1.7251	6032	1.6577	6273	1.5941	6519	1.5340	6771	1.4770	54
7	5801	1.7239	6036	1.6566	6277	1.5931	6523	1.5330	6775	1.4761	53
8	5805	1.7228	6040	1.6555	6281	1.5921	6527	1.5320	6779	1.4751	52
9	5808	1.7216	6044	1.6545	6285	1.5911	6531	1.5311	6783	1.4742	51
10	5812	1.7205	6048	1.6534	6289	1.5900	6536	1.5301	6787	1.4733	50
11	5816	1.7193	6052	1.6523	6293	1.5890	6540	1.5291	6792	1.4724	49
12	5820	1.7182	6056	1.6512	6297	1.5880	6544	1.5282	6796	1.4715	48
13	5824	1.7170	6060	1.6501	6301	1.5869	6548	1.5272	6800	1.4705	47
14	5828	1.7159	6064	1.6490	6305	1.5859	6552	1.5262	6805	1.4696	46
15	5832	1.7147	6068	1.6479	6310	1.5849	6556	1.5253	6809	1.4687	45
16	5836	1.7136	6072	1.6469	6314	1.5839	6560	1.5243	6813	1.4678	44
17	5840	1.7124	6076	1.6458	6318	1.5829	6565	1.5233	6817	1.4669	43
18	5844	1.7113	6080	1.6447	6322	1.5818	6569	1.5224	6822	1.4660	42
19	5847	1.7102	6084	1.6436	6326	1.5808	6573	1.5214	6826	1.4650	41
20	5851	1.7090	6088	1.6426	6330	1.5798	6577	1.5204	6830	1.4641	40
21	5855	1.7079	6092	1.6415	6334	1.5788	6581	1.5195	6834	1.4632	39
22	5859	1.7067	6096	1.6404	6338	1.5778	6585	1.5185	6839	1.4623	38
23	5863	1.7056	6100	1.6393	6342	1.5768	6590	1.5175	6843	1.4614	37
24	5867	1.7045	6104	1.6383	6346	1.5757	6594	1.5166	6847	1.4605	36
25	5871	1.7033	6108	1.6372	6350	1.5747	6598	1.5156	6851	1.4596	35
26	5875	1.7022	6112	1.6361	6354	1.5737	6602	1.5147	6856	1.4586	34
27	5879	1.7011	6116	1.6351	6358	1.5727	6606	1.5137	6860	1.4577	33
28	5883	1.6999	6120	1.6340	6363	1.5717	6610	1.5127	6864	1.4568	32
29	5887	1.6988	6124	1.6329	6367	1.5707	6615	1.5118	6869	1.4559	31
30	5890	1.6977	6128	1.6319	6371	1.5697	6619	1.5108	6873	1.4550	30
31	5894	1.6965	6132	1.6308	6375	1.5687	6623	1.5099	6877	1.4541	29
32	5898	1.6954	6136	1.6297	6379	1.5677	6627	1.5089	6881	1.4532	28
33	5902	1.6943	6140	1.6287	6383	1.5667	6631	1.5080	6886	1.4523	27
34	5906	1.6932	6144	1.6276	6387	1.5657	6636	1.5070	6890	1.4514	26
35	5910	1.6920	6148	1.6265	6391	1.5647	6640	1.5061	6894	1.4505	25
36	5914	1.6909	6152	1.6255	6395	1.5637	6644	1.5051	6899	1.4496	24
37	5918	1.6898	6156	1.6244	6399	1.5627	6648	1.5042	6903	1.4487	23
38	5922	1.6887	6160	1.6234	6403	1.5617	6652	1.5032	6907	1.4478	22
39	5926	1.6875	6164	1.6223	6408	1.5607	6657	1.5023	6911	1.4469	21
40	5930	1.6864	6168	1.6212	6412	1.5597	6661	1.5013	6916	1.4460	20
41	5934	1.6853	6172	1.6202	6416	1.5587	6665	1.5004	6920	1.4451	19
42	5938	1.6842	6176	1.6191	6420	1.5577	6669	1.4994	6924	1.4442	18
43	5942	1.6831	6180	1.6181	6424	1.5567	6673	1.4985	6929	1.4433	17
44	5945	1.6820	6184	1.6170	6428	1.5557	6678	1.4975	6933	1.4424	16
45	5949	1.6808	6188	1.6160	6432	1.5547	6682	1.4966	6937	1.4415	15
46	5953	1.6797	6192	1.6149	6436	1.5537	6686	1.4957	6942	1.4406	14
47	5957	1.6786	6196	1.6139	6440	1.5527	6690	1.4947	6946	1.4397	13
48	5961	1.6775	6200	1.6128	6445	1.5517	6694	1.4938	6950	1.4388	12
49	5965	1.6764	6204	1.6118	6449	1.5507	6699	1.4928	6954	1.4379	11
50	5969	1.6753	6208	1.6107	6453	1.5497	6703	1.4919	6959	1.4370	10
51	5973	1.6742	6212	1.6097	6457	1.5487	6707	1.4910	6963	1.4361	9
52	5977	1.6731	6216	1.6087	6461	1.5477	6711	1.4900	6967	1.4352	8
53	5981	1.6720	6220	1.6076	6465	1.5468	6716	1.4891	6972	1.4344	7
54	5985	1.6709	6224	1.6066	6469	1.5458	6720	1.4882	6976	1.4335	6
55	5989	1.6698	6228	1.6055	6473	1.5448	6724	1.4872	6980	1.4326	5
56	5993	1.6687	6233	1.6045	6478	1.5438	6728	1.4863	6985	1.4317	4
57	5997	1.6676	6237	1.6034	6482	1.5428	6732	1.4854	6989	1.4308	3
58	6001	1.6665	6241	1.6024	6486	1.5418	6737	1.4844	6993	1.4299	2
59	6005	1.6654	6245	1.6014	6490	1.5408	6741	1.4835	6998	1.4290	1
60	6009	1.6643	6249	1.6003	6494	1.5399	6745	1.4826	7002	1.4281	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
	59°		58°		57°		56°		55°		

TABLE VI.—NATURAL TANGENTS AND COTANGENTS

°	35°		36°		37°		38°		39°		°
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	7002	1.4281	7265	1.3764	7536	1.3270	7813	1.2799	8098	1.2349	60
1	7006	1.4273	7270	1.3755	7540	1.3262	7818	1.2792	8103	1.2342	59
2	7011	1.4264	7274	1.3747	7545	1.3254	7822	1.2784	8107	1.2334	58
3	7015	1.4255	7279	1.3739	7549	1.3246	7827	1.2776	8112	1.2327	57
4	7019	1.4246	7283	1.3730	7554	1.3238	7832	1.2769	8117	1.2320	56
5	7024	1.4237	7288	1.3722	7558	1.3230	7836	1.2761	8122	1.2312	55
6	7028	1.4229	7292	1.3713	7563	1.3222	7841	1.2753	8127	1.2305	54
7	7032	1.4220	7297	1.3705	7568	1.3214	7846	1.2746	8132	1.2298	53
8	7037	1.4211	7301	1.3697	7572	1.3206	7850	1.2738	8136	1.2290	52
9	7041	1.4202	7306	1.3688	7577	1.3198	7855	1.2731	8141	1.2283	51
10	7046	1.4193	7310	1.3680	7581	1.3190	7860	1.2723	8146	1.2276	50
11	7050	1.4185	7314	1.3672	7586	1.3182	7865	1.2715	8151	1.2268	49
12	7054	1.4176	7319	1.3663	7590	1.3175	7869	1.2708	8156	1.2261	48
13	7059	1.4167	7323	1.3655	7595	1.3167	7874	1.2700	8161	1.2254	47
14	7063	1.4158	7328	1.3647	7600	1.3159	7879	1.2693	8165	1.2247	46
15	7067	1.4150	7332	1.3638	7604	1.3151	7883	1.2685	8170	1.2239	45
16	7072	1.4141	7337	1.3630	7609	1.3143	7888	1.2677	8175	1.2232	44
17	7076	1.4132	7341	1.3622	7613	1.3135	7893	1.2670	8180	1.2225	43
18	7080	1.4124	7346	1.3613	7618	1.3127	7898	1.2662	8185	1.2218	42
19	7085	1.4115	7350	1.3605	7623	1.3119	7902	1.2655	8190	1.2210	41
20	7089	1.4106	7355	1.3597	7627	1.3111	7907	1.2647	8195	1.2203	40
21	7094	1.4097	7359	1.3588	7632	1.3103	7912	1.2640	8199	1.2196	39
22	7098	1.4089	7364	1.3580	7636	1.3095	7916	1.2632	8204	1.2189	38
23	7102	1.4080	7368	1.3572	7641	1.3087	7921	1.2624	8209	1.2181	37
24	7107	1.4071	7373	1.3564	7646	1.3079	7926	1.2617	8214	1.2174	36
25	7111	1.4063	7377	1.3555	7650	1.3072	7931	1.2609	8219	1.2167	35
26	7115	1.4054	7382	1.3547	7655	1.3064	7935	1.2602	8224	1.2160	34
27	7120	1.4045	7386	1.3539	7659	1.3056	7940	1.2594	8229	1.2153	33
28	7124	1.4037	7391	1.3531	7664	1.3048	7945	1.2587	8234	1.2145	32
29	7129	1.4028	7395	1.3522	7669	1.3040	7950	1.2579	8238	1.2138	31
30	7133	1.4019	7400	1.3514	7673	1.3032	7954	1.2572	8243	1.2131	30
31	7137	1.4011	7404	1.3506	7678	1.3024	7959	1.2564	8248	1.2124	29
32	7142	1.4002	7409	1.3498	7683	1.3017	7964	1.2557	8253	1.2117	28
33	7146	1.3994	7413	1.3490	7687	1.3009	7969	1.2549	8258	1.2109	27
34	7151	1.3985	7418	1.3481	7692	1.3001	7973	1.2542	8263	1.2102	26
35	7155	1.3976	7422	1.3473	7696	1.2993	7978	1.2534	8268	1.2095	25
36	7159	1.3968	7427	1.3465	7701	1.2985	7983	1.2527	8273	1.2088	24
37	7164	1.3959	7431	1.3457	7706	1.2977	7988	1.2519	8278	1.2081	23
38	7168	1.3951	7436	1.3449	7710	1.2970	7992	1.2512	8283	1.2074	22
39	7173	1.3942	7440	1.3440	7715	1.2962	7997	1.2504	8287	1.2066	21
40	7177	1.3934	7445	1.3432	7720	1.2954	8002	1.2497	8292	1.2059	20
41	7181	1.3925	7449	1.3424	7724	1.2946	8007	1.2489	8297	1.2052	19
42	7186	1.3916	7454	1.3416	7729	1.2938	8012	1.2482	8302	1.2045	18
43	7190	1.3908	7458	1.3408	7734	1.2931	8016	1.2475	8307	1.2038	17
44	7195	1.3899	7463	1.3400	7738	1.2923	8021	1.2467	8312	1.2031	16
45	7199	1.3891	7467	1.3392	7743	1.2915	8026	1.2460	8317	1.2024	15
46	7203	1.3882	7472	1.3384	7747	1.2907	8031	1.2452	8322	1.2017	14
47	7208	1.3874	7476	1.3375	7752	1.2900	8035	1.2445	8327	1.2010	13
48	7212	1.3865	7481	1.3367	7757	1.2892	8040	1.2437	8332	1.2002	12
49	7217	1.3857	7485	1.3359	7761	1.2884	8045	1.2430	8337	1.1995	11
50	7221	1.3848	7490	1.3351	7766	1.2876	8050	1.2423	8342	1.1988	10
51	7226	1.3840	7495	1.3343	7771	1.2869	8055	1.2415	8346	1.1981	9
52	7230	1.3831	7499	1.3335	7775	1.2861	8059	1.2408	8351	1.1974	8
53	7234	1.3823	7504	1.3327	7780	1.2853	8064	1.2401	8356	1.1967	7
54	7239	1.3814	7508	1.3319	7785	1.2846	8069	1.2393	8361	1.1960	6
55	7243	1.3806	7513	1.3311	7789	1.2838	8074	1.2386	8366	1.1953	5
56	7248	1.3798	7517	1.3303	7794	1.2830	8079	1.2378	8371	1.1946	4
57	7252	1.3789	7522	1.3295	7799	1.2822	8083	1.2371	8376	1.1939	3
58	7257	1.3781	7526	1.3287	7803	1.2815	8088	1.2364	8381	1.1932	2
59	7261	1.3772	7531	1.3278	7808	1.2807	8093	1.2356	8386	1.1925	1
60	7265	1.3764	7536	1.3270	7813	1.2799	8098	1.2349	8391	1.1918	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
°	54°		53°		52°		51°		50°		°

TABLE VI. — NATURAL TANGENTS AND COTANGENTS

/	40°		41°		42°		43°		44°		/
	tan	cot	tan	cot	tan	cot	tan	cot	tan	cot	
0	8391	1.1918	8693	1.1504	9004	1.1106	9325	1.0724	9657	1.0355	60
1	8396	1.1910	8698	1.1497	9009	1.1100	9331	1.0717	9663	1.0349	59
2	8401	1.1903	8703	1.1490	9015	1.1093	9336	1.0711	9668	1.0343	58
3	8406	1.1896	8708	1.1483	9020	1.1087	9341	1.0705	9674	1.0337	57
4	8411	1.1889	8713	1.1477	9025	1.1080	9347	1.0699	9679	1.0331	56
5	8416	1.1882	8718	1.1470	9030	1.1074	9352	1.0692	9685	1.0325	55
6	8421	1.1875	8724	1.1463	9036	1.1067	9358	1.0686	9691	1.0319	54
7	8426	1.1868	8729	1.1456	9041	1.1061	9363	1.0680	9696	1.0313	53
8	8431	1.1861	8734	1.1450	9046	1.1054	9369	1.0674	9702	1.0307	52
9	8436	1.1854	8739	1.1443	9052	1.1048	9374	1.0668	9708	1.0301	51
10	8441	1.1847	8744	1.1436	9057	1.1041	9380	1.0661	9713	1.0295	50
11	8446	1.1840	8749	1.1430	9062	1.1035	9385	1.0655	9719	1.0289	49
12	8451	1.1833	8754	1.1423	9067	1.1028	9391	1.0649	9725	1.0283	48
13	8456	1.1826	8759	1.1416	9073	1.1022	9396	1.0643	9730	1.0277	47
14	8461	1.1819	8765	1.1410	9078	1.1016	9402	1.0637	9736	1.0271	46
15	8466	1.1812	8770	1.1403	9083	1.1009	9407	1.0630	9742	1.0265	45
16	8471	1.1806	8775	1.1396	9089	1.1003	9413	1.0624	9747	1.0259	44
17	8476	1.1799	8780	1.1389	9094	1.0996	9418	1.0618	9753	1.0253	43
18	8481	1.1792	8785	1.1383	9099	1.0990	9424	1.0612	9759	1.0247	42
19	8486	1.1785	8790	1.1376	9105	1.0983	9429	1.0606	9764	1.0241	41
20	8491	1.1778	8796	1.1369	9110	1.0977	9435	1.0599	9770	1.0235	40
21	8496	1.1771	8801	1.1363	9115	1.0971	9440	1.0593	9776	1.0230	39
22	8501	1.1764	8806	1.1356	9121	1.0964	9446	1.0587	9781	1.0224	38
23	8506	1.1757	8811	1.1349	9126	1.0958	9451	1.0581	9787	1.0218	37
24	8511	1.1750	8816	1.1343	9131	1.0951	9457	1.0575	9793	1.0212	36
25	8516	1.1743	8821	1.1336	9137	1.0945	9462	1.0569	9798	1.0206	35
26	8521	1.1736	8827	1.1329	9142	1.0939	9468	1.0562	9804	1.0200	34
27	8526	1.1729	8832	1.1323	9147	1.0932	9473	1.0556	9810	1.0194	33
28	8531	1.1722	8837	1.1316	9153	1.0926	9479	1.0550	9816	1.0188	32
29	8536	1.1715	8842	1.1310	9158	1.0919	9484	1.0544	9821	1.0182	31
30	8541	1.1708	8847	1.1303	9163	1.0913	9490	1.0538	9827	1.0176	30
31	8546	1.1702	8852	1.1296	9169	1.0907	9495	1.0532	9833	1.0170	29
32	8551	1.1695	8858	1.1290	9174	1.0900	9501	1.0526	9838	1.0164	28
33	8556	1.1688	8863	1.1283	9179	1.0894	9506	1.0519	9844	1.0158	27
34	8561	1.1681	8868	1.1276	9185	1.0888	9512	1.0513	9850	1.0152	26
35	8566	1.1674	8873	1.1270	9190	1.0881	9517	1.0507	9856	1.0147	25
36	8571	1.1667	8878	1.1263	9195	1.0875	9523	1.0501	9861	1.0141	24
37	8576	1.1660	8884	1.1257	9201	1.0869	9528	1.0495	9867	1.0135	23
38	8581	1.1653	8889	1.1250	9206	1.0862	9534	1.0489	9873	1.0129	22
39	8586	1.1647	8894	1.1243	9212	1.0856	9540	1.0483	9879	1.0123	21
40	8591	1.1640	8899	1.1237	9217	1.0850	9545	1.0477	9884	1.0117	20
41	8596	1.1633	8904	1.1230	9222	1.0843	9551	1.0470	9890	1.0111	19
42	8601	1.1626	8910	1.1224	9228	1.0837	9556	1.0464	9896	1.0105	18
43	8606	1.1619	8915	1.1217	9233	1.0831	9562	1.0458	9902	1.0099	17
44	8611	1.1612	8920	1.1211	9239	1.0824	9567	1.0452	9907	1.0094	16
45	8617	1.1606	8925	1.1204	9244	1.0818	9573	1.0446	9913	1.0088	15
46	8622	1.1599	8931	1.1197	9249	1.0812	9578	1.0440	9919	1.0082	14
47	8627	1.1592	8936	1.1191	9255	1.0805	9584	1.0434	9925	1.0076	13
48	8632	1.1585	8941	1.1184	9260	1.0799	9590	1.0428	9930	1.0070	12
49	8637	1.1578	8946	1.1178	9266	1.0793	9595	1.0422	9936	1.0064	11
50	8642	1.1571	8952	1.1171	9271	1.0786	9601	1.0416	9942	1.0058	10
51	8647	1.1565	8957	1.1165	9276	1.0780	9606	1.0410	9948	1.0052	9
52	8652	1.1558	8962	1.1158	9282	1.0774	9612	1.0404	9954	1.0047	8
53	8657	1.1551	8967	1.1152	9287	1.0768	9618	1.0398	9959	1.0041	7
54	8662	1.1544	8972	1.1145	9293	1.0761	9623	1.0392	9965	1.0035	6
55	8667	1.1538	8978	1.1139	9298	1.0755	9629	1.0385	9971	1.0029	5
56	8672	1.1531	8983	1.1132	9303	1.0749	9634	1.0379	9977	1.0023	4
57	8678	1.1524	8988	1.1126	9309	1.0742	9640	1.0373	9983	1.0017	3
58	8683	1.1517	8994	1.1119	9314	1.0736	9646	1.0367	9988	1.0012	2
59	8688	1.1510	8999	1.1113	9320	1.0730	9651	1.0361	9994	1.0006	1
60	8693	1.1504	9004	1.1106	9325	1.0724	9657	1.0355	1.000	1.0000	0
	cot	tan	cot	tan	cot	tan	cot	tan	cot	tan	
/	49°		48°		47°		46°		45°		/

TABLE VII.—MINUTES AS DECIMALS OF A DEGREE OR SECONDS AS DECIMALS OF A MINUTE

1	.017	16	.267	31	.517	46	.767
2	.033	17	.283	32	.533	47	.783
3	.050	18	.300	33	.550	48	.800
4	.067	19	.317	34	.567	49	.817
5	.083	20	.333	35	.583	50	.833
6	.100	21	.350	36	.600	51	.850
7	.117	22	.367	37	.617	52	.867
8	.133	23	.383	38	.633	53	.883
9	.150	24	.400	39	.650	54	.900
10	.167	25	.417	40	.667	55	.917
11	.183	26	.433	41	.683	56	.933
12	.200	27	.450	42	.700	57	.950
13	.217	28	.467	43	.717	58	.967
14	.233	29	.483	44	.733	59	.983
15	.250	30	.500	45	.750	60	1.000

TABLE VIII.—FORMULAS FOR THE SOLUTION OF TRIANGLES

GIVEN	SOUGHT	FORMULA
A, B, a	b, c	$b = \frac{a}{\sin A} \cdot \sin B, c = \frac{a}{\sin A} \cdot \sin C$
A, a, b	B, c	$\sin B = \frac{\sin A}{a} \cdot b, c = \frac{a}{\sin A} \cdot \sin C$
C, a, b	$A - B$	$\tan \frac{1}{2} (A - B) = \frac{a - b}{a + b} \cdot \tan \frac{1}{2} (A + B)$
a, b, c	A	If $s = \frac{1}{2} (a + b + c)$, $\sin \frac{1}{2} A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\cos \frac{1}{2} A = \sqrt{\frac{s(s - a)}{bc}}, \tan \frac{1}{2} A = \sqrt{\frac{(s - b)(s - c)}{s(s - a)}}$ $\sin A = \frac{2 \sqrt{s(s - a)(s - b)(s - c)}}{bc}$
	area	area = $\sqrt{s(s - a)(s - b)(s - c)}$
A, B, C, a	area	area = $\frac{a^2 \sin B \cdot \sin C}{2 \sin A}$
C, a, b	area	area = $\frac{1}{2} ab \sin C$

TABLE IX. — TRIGONOMETRIC FORMULAS

1. $\sin^2 A + \cos^2 A = 1.$
2. $\sin (x \pm y) = \sin x \cos y \pm \cos x \sin y.$
3. $\cos (x \pm y) = \cos x \cos y \mp \sin x \sin y.$
4. $\tan (x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}.$
5. $\cot (x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x}.$
6. $\sin 2x = 2 \sin x \cos x.$
7. $\cos 2x = \cos^2 x - \sin^2 x.$
8. $\tan 2x = \frac{2 \tan x}{1 - \tan^2 x}.$
9. $\cot 2x = \frac{\cot^2 x - 1}{2 \cot x}.$
10. $\sin \frac{1}{2} z = \pm \sqrt{\frac{1 - \cos z}{2}}.$
11. $\cos \frac{1}{2} z = \pm \sqrt{\frac{1 + \cos z}{2}}.$
12. $\tan \frac{1}{2} z = \pm \sqrt{\frac{1 - \cos z}{1 + \cos z}}.$
13. $\cot \frac{1}{2} z = \pm \sqrt{\frac{1 + \cos z}{1 - \cos z}}.$
14. $\sin A + \sin B = 2 \sin \frac{1}{2} (A + B) \cos \frac{1}{2} (A - B).$
15. $\sin A - \sin B = 2 \cos \frac{1}{2} (A + B) \sin \frac{1}{2} (A - B).$
16. $\cos A + \cos B = 2 \cos \frac{1}{2} (A + B) \cos \frac{1}{2} (A - B).$
17. $\cos A - \cos B = -2 \sin \frac{1}{2} (A + B) \sin \frac{1}{2} (A - B).$
18. $\frac{\sin A + \sin B}{\sin A - \sin B} = \frac{\tan \frac{1}{2} (A + B)}{\tan \frac{1}{2} (A - B)}.$
19. $\frac{a}{b} = \frac{\sin A}{\sin B}.$
20. $a^2 = b^2 + c^2 - 2bc \cos A.$
21. $\frac{a - b}{a + b} = \frac{\tan \frac{1}{2} (A - B)}{\tan \frac{1}{2} (A + B)}.$

TABLE X. — AREAS AND VOLUMES

To find the area of a circle, multiply the square of the diameter by .7854.

To find the area of a sphere, multiply the square of the diameter by 3.1416.

To find the volume of a sphere, multiply the cube of the diameter by .5236.

To find the volume of a spherical segment, add the square of its altitude to three times the square of the radius of the base; multiply this sum by the altitude, and the product by .5236.

To find the volume of a cylinder, multiply the area of the base by the altitude.

To find the volume of a cone or pyramid, multiply the area of the base by one-third the altitude.

To find the volume of a frustum of a cone or pyramid: To the sum of the areas of the bases add the square root of their product and multiply the sum by one-third the altitude of the frustum.

To find the volume of a prismaticoid, multiply the sum of its bases and four times its mid-section by one-sixth of its altitude.

To find the area of an ellipse, multiply the product of the diameters by .7854.

To find the area of an equilateral triangle, multiply the square of one side by .433.

To find the area of a regular pentagon, multiply the square of one side by 1.7205.

To find the area of a regular hexagon, multiply the square of one side by 2.5981.

To find the area of a regular octagon, multiply the square of one side by 4.8284.

TABLE XI. — VOLUMES OF SPHERES

D = diameter

D	Volume	D	Volume	D	Volume	D	Volume	D	Volume
1	0.5236	21	4849.05	41	36086.95	61	118846.9	81	278261.8
2	4.1888	22	5575.28	42	38792.38	62	124788.2	82	288695.6
3	14.1372	23	6370.63	43	41629.77	63	130924.3	83	299387.0
4	33.5103	24	7238.23	44	44602.24	64	137258.3	84	310339.1
5	65.4498	25	8181.23	45	47712.93	65	143793.3	85	321555.1
6	113.0974	26	9202.77	46	50965.00	66	150532.5	86	333038.2
7	179.5943	27	10306.00	47	54361.60	67	157479.1	87	344791.4
8	268.0826	28	11494.04	48	57905.83	68	164636.2	88	356818.0
9	381.7035	29	12770.05	49	61600.86	69	172006.9	89	369120.9
10	523.5988	30	14137.17	50	65449.84	70	179594.3	90	381703.5
11	696.9100	31	15598.53	51	69455.90	71	187401.7	91	394568.8
12	904.7785	32	17157.25	52	73622.17	72	195432.2	92	407720.0
13	1150.347	33	18816.56	53	77951.80	73	203688.8	93	421160.4
14	1436.755	34	20579.52	54	82447.94	74	212174.8	94	434892.8
15	1767.146	35	22449.29	55	87113.74	75	220893.3	95	448920.4
16	2144.660	36	24429.02	56	91952.32	76	229847.3	96	463246.7
17	2572.441	37	26521.84	57	96966.82	77	239040.1	97	477874.4
18	3053.628	38	28730.91	58	102160.4	78	248474.8	98	492807.0
19	3591.364	39	31059.35	59	107536.2	79	258154.6	99	508047.3
20	4188.790	40	33510.32	60	113097.4	80	268082.6	100	523598.8

TABLE XII.—STANDARD GAUGES

Thickness in Decimals of an Inch

No. of Gauge	Birmingham	Brown & Sharpe	United States Standard Plate Iron and Steel	British Imperial	American Steel and Wire Co.	Trenton Iron Co.	Stubs Steel Wire	No. of Gauge
7°	...	...	.500	.500	...	...	...	7°
6°	...	...	.46875	.464	...	...	...	6°
5°	...	...	.4375	.432	...	.45	...	5°
4°	.454	.46	.40625	.400	.3938	.40	...	4°
3°	.425	.40964	.375	.372	.3625	.36	...	3°
2°	.380	.3648	.34375	.348	.3310	.33	...	2°
0	.340	.32486	.3125	.324	.3065	.305	...	0
1	.300	.2893	.28125	.300	.2830	.285	.227	1
2	.284	.25763	.265625	.276	.2625	.265	.219	2
3	.259	.22942	.25	.252	.2437	.245	.212	3
4	.238	.20431	.234375	.232	.2253	.225	.207	4
5	.220	.18194	.21875	.212	.2070	.205	.204	5
6	.203	.16202	.203125	.192	.1920	.190	.201	6
7	.180	.14428	.1875	.176	.1770	.175	.199	7
8	.165	.12849	.171875	.160	.1620	.160	.197	8
9	.148	.11443	.15625	.144	.1483	.145	.194	9
10	.134	.10189	.140625	.128	.1350	.130	.191	10
11	.120	.090742	.125	.116	.1205	.1175	.188	11
12	.109	.080808	.109375	.104	.1055	.1050	.185	12
13	.095	.071961	.09375	.092	.0915	.0925	.182	13
14	.083	.064084	.078125	.080	.0800	.0800	.180	14
15	.072	.057068	.0703125	.072	.0720	.0700	.178	15
16	.065	.05082	.0625	.064	.0625	.0610	.175	16
17	.058	.045257	.05625	.056	.0540	.0525	.172	17
18	.049	.040303	.05	.048	.0475	.0450	.168	18
19	.042	.03589	.04375	.040	.0410	.0400	.164	19
20	.035	.031961	.0375	.036	.0348	.0350	.161	20
21	.032	.028462	.034375	.032	.03175	.0310	.157	21
22	.028	.025347	.03125	.028	.0286	.0280	.155	22
23	.025	.022571	.028125	.024	.0258	.0250	.153	23
24	.022	.0201	.025	.022	.0230	.0225	.151	24
25	.020	.0179	.021875	.020	.0204	.0200	.148	25
26	.018	.01594	.01875	.018	.0181	.0180	.146	26
27	.016	.014195	.0171875	.0164	.0173	.0170	.143	27
28	.014	.012641	.015625	.0148	.0162	.0160	.139	28
29	.013	.011257	.0140625	.0136	.0150	.0150	.134	29
30	.012	.010025	.0125	.0124	.0140	.0140	.127	30
31	.010	.008928	.0109375	.0116	.0132	.0130	.120	31
32	.009	.00795	.01015625	.0108	.0128	.0120	.115	32
33	.008	.00708	.009375	.0100	.0118	.0110	.112	33
34	.007	.006304	.00859375	.0092	.0104	.0100	.110	34
35	.005	.005614	.0078125	.0084	.0095	.0095	.108	35
36	.004	.005	.00703125	.0076	.0090	.0090	.106	36
37	...	.004453	.006640625	.0068	...	.0085	.103	37
38	...	.003965	.00625	.0060	...	.0080	.101	38
39	...	.003531	...	...	...	.0075	.099	39
40	...	.003144	...	...	...	.0070	.097	40

TABLE XIII.—DECIMAL EQUIVALENTS OF COMMON FRACTIONS

$\frac{1}{32}$ ds.	$\frac{1}{64}$ ths.	Decimal	Fraction	$\frac{1}{32}$ ds.	$\frac{1}{64}$ ths.	Decimal	Fraction
	1	.015625			33	.515625	
1	2	.03125		17	34	.53125	
	3	.046875			35	.546875	
2	4	.0625	1-16	18	36	.5625	9-16
	5	.078125			37	.578125	
3	6	.09375		19	38	.59375	
	7	.109375			39	.609375	
4	8	.125	1-8	20	40	.625	5-8
	9	.140625			41	.640625	
5	10	.15625		21	42	.65625	
	11	.171875			43	.671875	
6	12	.1875	3-16	22	44	.6875	11-16
	13	.203125			45	.703125	
7	14	.21875		23	46	.71875	
	15	.234375			47	.734375	
8	16	.25	1-4	24	48	.75	3-4
	17	.265625			49	.765625	
9	18	.28125		25	50	.78125	
	19	.296875			51	.796875	
10	20	.3125	5-16	26	52	.8125	13-16
	21	.328125			53	.828125	
11	22	.34375		27	54	.84375	
	23	.359375			55	.859375	
12	24	.375	3-8	28	56	.875	7-8
	25	.390625			57	.890625	
13	26	.40625		29	58	.90625	
	27	.421875			59	.921875	
14	28	.4375	7-16	30	60	.9375	15-16
	29	.453125			61	.953125	
15	30	.46875		31	62	.96875	
	31	.484375			63	.984375	
16	32	.5	1-2	32	64	1.	1

TABLE XIV. — SPECIFIC GRAVITIES

Name of Substance	Specific Gravity	Name of Substance	Specific Gravity
Alcohol	0.79	Maple	0.70
Aluminum, cast	2.60	Marble	2.52-2.85
Aluminum, rolled	2.75	Masonry, stone	2.00-2.55
Asphaltum	1.10-1.20	Masonry, brick	1.50-1.60
Basalt	2.70-2.95	Mercury	13.59
Beech	0.85	Nitric acid	1.22
Brass, cast	8.40-8.70	Oak, dry	0.69-1.03
Brass, rolled	8.57	Olive oil	0.92
Brick, hard	1.53-2.30	Petroleum	0.80
Cement, ground	1.85	Pine	0.35-0.60
Chalk	1.77-2.10	Platinum, cast	21.15
Concrete	2.47	Platinum, rolled	21.3-21.5
Copper, cast	8.79	Plumbago	2.27
Copper, rolled	8.78-9.00	Quartz	2.5-2.8
Cork	0.24	Resin	1.01
Diamond	3.52	Sand, fine, dry	1.40-1.65
Earth	1.30-1.80	Sand, wet	1.90-2.05
Ether	0.72	Silver, cast	10.48
Glass, window	2.64	Silver, rolled	10.62
Gold, cast	19.28	Slate	2.60-2.70
Gold, rolled	19.33	Steel	7.26-7.86
Granite	2.50-3.00	Sulphur	1.93-2.07
Human body	0.89	Sulphuric acid	1.84
Ice	0.88-0.92	Water, pure	1.00
Iron, cast	7.10-7.50	Water, sea	1.03
Iron, wrought	7.79	Wax	0.95-0.98
Lead	11.37	Zinc, cast	6.90
Lignum vitæ	1.33	Zinc, rolled	7.20

TABLE XV. — WEIGHT OF A CUBIC FOOT OF VARIOUS MATERIALS

Name of Material	Average Weight, Lbs.
Aluminum	162
Anthracite, solid, of Pennsylvania	93
broken, loose	54
moderately shaken	58
Ash, American white, dry	38
Asphaltum	87
Brass, cast	504
rolled	524
Brick, best pressed	150
common, hard	125
soft, inferior	100
Brickwork, pressed brick	140
ordinary	112
Cement, hydraulic, ground, loose, American, Rosendale	56
Louisville	50
English, Portland	90
Cherry, dry	42
Chestnut, dry	41
Clay, potters', dry	119
in lump, loose	63
Coal, bituminous, solid	84
broken, loose	49
Coke, loose	26
Concrete	154
Copper, cast	542
rolled	548
Cork	15
Earth, common loam, dry, loose	76
moderately rammed	95
as a soft, flowing mud	108
Ebony, dry	76
Elm, dry	35
Flint	162

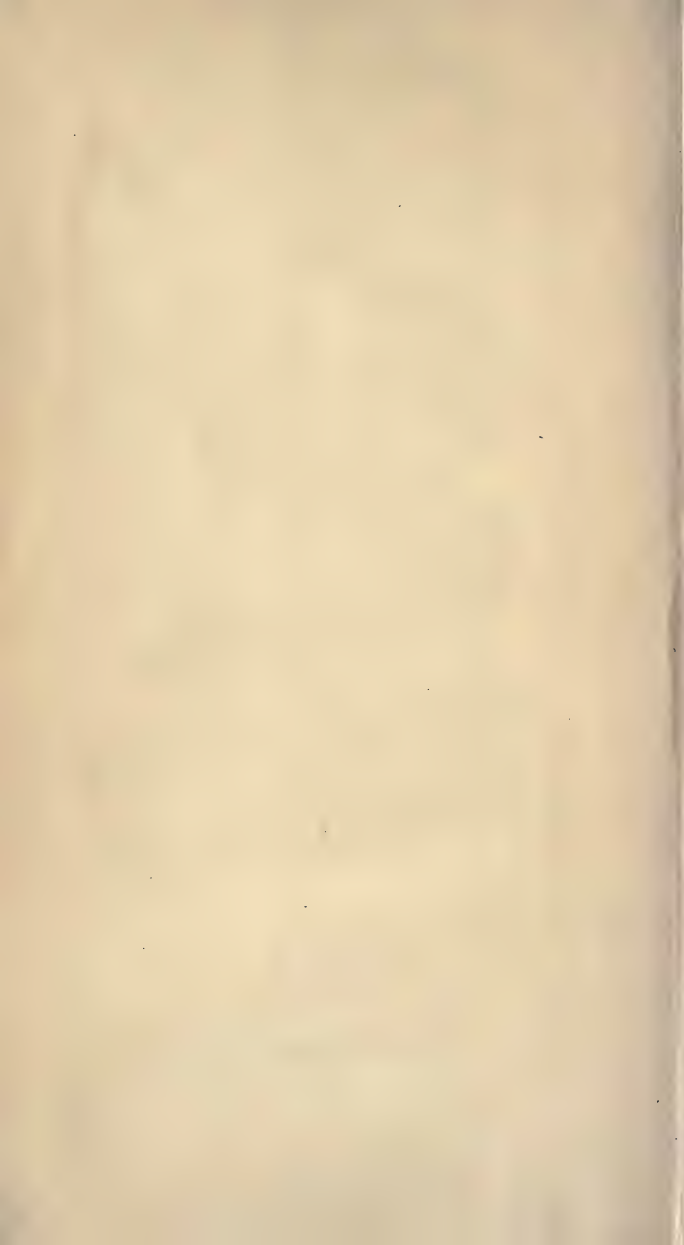
WEIGHT OF A CUBIC FOOT OF VARIOUS MATERIALS
Continued

Name of Material	Average Weight, Lbs.
Glass, common window	157
Gneiss, common	168
Gold, cast, pure, or 24 carat	1204
pure, hammered	1217
Grain at 60 lb. per bushel	48
Granite	170
Gravel, about the same as Sand, which see.	
Gypsum (plaster of Paris)	142
Hemlock, dry	25
Hickory, dry	53
Hornblende, black	203
Ice	58.7
Iron, cast	450
wrought, purest	485
average	480
Ivory	114
Lead	711
Lignum Vitæ, dry	83
Lime, quick, ground, loose, or in small lumps	53
thoroughly shaken	75
Limestones and Marbles	168
loose, in irregular fragments	96
Magnesium	109
Mahogany, Spanish, dry	53
Honduras, dry	35
Maple, dry	49
Marbles, see Limestones.	
Masonry, of granite or limestone, well dressed	165
mortar rubble	154
dry rubble (well scabbled)	138
sandstone, well dressed	144
Mercury, at 32° Fahrenheit	849
Mica	183

WEIGHT OF A CUBIC FOOT OF VARIOUS MATERIALS

Continued

Name of Material	Average Weight, Lbs.
Mortar, hardened	103
Mud, dry, close	80 to 110
Oak, white, dry	50
other kinds	32 to 45
Petroleum	55
Pine, white, dry	25
yellow, Northern	34
Southern	45
Platinum	1342
Quartz, common, pure	165
Rosin	69
Salt, coarse, Syracuse, N.Y.	45
Liverpool, fine, for table use	49
Sand, of pure quartz, dry, loose	90 to 106
well shaken	99 to 117
Sandstones, fit for building	151
Shales, red or black	162
Silver	655
Slate	175
Snow, freshly fallen	5 to 12
moistened and compacted by rain	15 to 50
Spruce, dry	25
Steel	490
Sulphur	125
Sycamore, dry	37
Tar	62
Tin, cast	459
Turf or Peat, dry, unpressed	20 to 30
Walnut, black, dry	38
Water, pure rain or distilled, at 60° Fahrenheit	62.3
sea	64
Wax, bees	60.5
Zinc or Spelter	437.5





144666

Matta
B255c

Author **Barker, Eugene Henry**

Title **Computing tables and mathematical**

University of Toronto
Library

DO NOT
REMOVE
THE
CARD
FROM
THIS
POCKET

*Study of
J. Brothstone, 27*

Acme Library Card Pocket
Under Pat. "Ref. Index File"
Made by LIBRARY BUREAU

