對數表新編

馮度編

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開明書店

新編對數表

二十四年四月初版　三十六年四月再版

每册定價國幣一元四角

編者　馮度

發行者　開明書店　代表人范洗人

印刷者　開明書店

有著作權 ■ 不准翻印

目　　次

對數表

常用對數表

1—10000

小數五位

1—100

N	Log	N	Log	N	Log	N	Log	N	Log
0	————	**20**	1.30 103	**40**	1.60 206	**60**	1.77 815	**80**	1.90 309
1	0.00 000	21	1.32 222	41	1.61 278	61	1.78 533	81	1.90 849
2	0.30 103	22	1.34 242	42	1.62 325	62	1.79 239	82	1.91 381
3	0.47 712	23	1.36 173	43	1.63 347	63	1.79 934	83	1.91 908
4	0.60 206	24	1.38 021	44	1.64 345	64	1.80 618	84	1.92 428
5	0.69 897	25	1.39 794	45	1.65 321	65	1.81 291	85	1.92 942
6	0.77 815	26	1.41 497	46	1.66 276	66	1.81 954	86	1.93 450
7	0.84 510	27	1.43 136	47	1.67 210	67	1.82 607	87	1.93 952
8	0.90 309	28	1.44 716	48	1.68 124	68	1.83 251	88	1.94 448
9	0.95 424	29	1.46 240	49	1.69 020	69	1.83 885	89	1.94 939
10	1.00 000	**30**	1.47 712	**50**	1.69 897	**70**	1.84 510	**90**	1.95 424
11	1.04 139	31	1.49 136	51	1.70 757	71	1.85 126	91	1.95 904
12	1.07 918	32	1.50 515	52	1.71 600	72	1.85 733	92	1.96 379
13	1.11 394	33	1.51 851	53	1.72 428	73	1.86 332	93	1.96 848
14	1.14 613	34	1.53 148	54	1.73 239	74	1.86 923	94	1.97 313
15	1.17 609	35	1.54 407	55	1.74 036	75	1.87 506	95	1.97 772
16	1.20 412	36	1.55 630	56	1.74 819	76	1.88 081	96	1.98 227
17	1.23 045	37	1.56 820	57	1.75 587	77	1.88 649	97	1.98 677
18	1.25 527	38	1.57 978	58	1.76 343	78	1.89 209	98	1.99 123
19	1.27 875	39	1.59 106	59	1.77 085	79	1.89 763	99	1.99 564
N	Log	N	Log	N	Log	N	Log	N	Log

N	0	1	2	3	4	5	6	7	8	9
100	00 000	043	087	130	173	217	260	303	346	389
101	432	475	518	561	604	647	689	732	775	817
102	860	903	945	988	*030	*072	*115	*157	*199	*242
103	01 284	326	368	410	452	494	536	578	620	662
104	703	745	787	828	870	912	953	995	*036	*078
105	02 119	160	202	243	284	325	366	407	449	490
106	531	572	612	653	694	735	776	816	857	898
107	938	979	*019	*060	*100	*141	*181	*222	*262	*302
108	03 342	383	423	463	503	543	583	623	663	703
109	743	782	822	862	902	941	981	*021	*060	*100
110	04 139	179	218	258	297	336	376	415	454	493
111	532	571	610	650	689	727	766	805	844	883
112	922	961	999	*038	*077	*115	*154	*192	*231	*269
113	05 308	346	385	423	461	500	538	576	614	652
114	690	729	767	805	843	881	918	956	994	*032
115	06 070	108	145	183	221	258	296	333	371	408
116	446	483	521	558	595	633	670	707	744	781
117	819	856	893	930	967	*004	*041	*078	*115	*151
118	07 188	225	262	298	335	372	408	445	482	518
119	555	591	628	664	700	737	773	809	846	882
120	918	954	990	*027	*063	*099	*135	*171	*207	*243
121	08 279	314	350	386	422	458	493	529	565	600
122	636	672	707	743	778	814	849	884	920	955
123	991	*026	*061	*096	*132	*167	*202	*237	*272	*307
124	09 342	377	412	447	482	517	552	587	621	656
125	691	726	760	795	830	864	899	934	968	*003
126	10 037	072	106	140	175	209	243	278	312	346
127	380	415	449	483	517	551	585	619	653	687
128	721	755	789	823	857	890	924	958	992	*025
129	11 059	093	126	160	193	227	261	294	327	361
130	394	428	461	494	528	561	594	628	661	694
131	727	760	793	826	860	893	926	959	992	*024
132	12 057	090	123	156	189	222	254	287	320	352
133	385	418	450	483	516	548	581	613	646	678
134	710	743	775	808	840	872	905	937	969	*001
135	13 033	066	098	130	162	194	226	258	290	322
136	354	386	418	450	481	513	545	577	609	640
137	672	704	735	767	799	830	862	893	925	956
138	988	*019	*051	*082	*114	*145	*176	*208	*239	*270
139	14 301	333	364	395	426	457	489	520	551	582
140	613	644	675	706	737	768	799	829	860	891
141	922	953	983	*014	*045	*076	*106	*137	*168	*198
142	15 229	259	290	320	351	381	412	442	473	503
143	534	564	594	625	655	685	715	746	776	806
144	836	866	897	927	957	987	*017	*047	*077	*107
145	16 137	167	197	227	256	286	316	346	376	406
146	435	465	495	524	554	584	613	643	673	702
147	732	761	791	820	850	879	909	938	967	997
148	17 026	056	085	114	143	173	202	231	260	289
149	319	348	377	406	435	464	493	522	551	580
150	609	638	667	696	725	754	782	811	840	869

PP			
	44	43	42
1	4.4	4.3	4.2
2	8.8	8.6	8.4
3	13.2	12.9	12.6
4	17.6	17.2	16.8
5	22.0	21.5	21.0
6	26.4	25.8	25.2
7	30.8	30.1	29.4
8	35.2	34.4	33.6
9	39.6	38.7	37.8
	41	**40**	**39**
1	4.1	4.0	3.9
2	8.2	8.0	7.8
3	12.3	12.0	11.7
4	16.4	16.0	15.6
5	20.5	20.0	19.5
6	24.6	24.0	23.4
7	28.7	28.0	27.3
8	32.8	32.0	31.2
9	36.9	36.0	35.1
	38	**37**	**36**
1	3.8	3.7	3.6
2	7.6	7.4	7.2
3	11.4	11.1	10.8
4	15.2	14.8	14.4
5	19.0	18.5	18.0
6	22.8	22.2	21.6
7	26.6	25.9	25.2
8	30.4	29.6	28.8
9	34.2	33.3	32.4
	35	**34**	**33**
1	3.5	3.4	3.3
2	7.0	6.8	6.6
3	10.5	10.2	9.9
4	14.0	13.6	13.2
5	17.5	17.0	16.5
6	21.0	20.4	19.8
7	24.5	23.8	23.1
8	28.0	27.2	26.4
9	31.5	30.6	29.7
	32	**31**	**30**
1	3.2	3.1	3.0
2	6.4	6.2	6.0
3	9.6	9.3	9.0
4	12.8	12.4	12.0
5	16.0	15.5	15.0
6	19.2	18.6	18.0
7	22.4	21.7	21.0
8	25.6	24.8	24.0
9	28.8	27.9	27.0

N 0 1 2 3 4 5 6 7 8 9 PP

常用對數表

N	0	1	2	3	4	5	6	7	8	9	PP
150	17 609	638	667	696	725	754	782	811	840	869	
151	898	926	955	984	*013	*041	*070	*099	*127	*156	**29 28**
152	18 184	213	241	270	298	327	355	384	412	441	
153	469	498	526	554	583	611	639	667	696	724	1 2.9 2.8
154	752	780	808	837	865	893	921	949	977	*005	2 5.8 5.6
											3 8.7 8.4
155	19 033	061	089	117	145	173	201	229	257	285	4 11.6 11.2
156	312	340	368	396	424	451	479	507	535	562	5 14.5 14.0
157	590	618	645	673	700	728	756	783	811	838	6 17.4 16.8
158	866	893	921	948	976	*003	*030	*058	*085	*112	7 20.3 19.6
159	20 140	167	194	222	249	276	303	330	358	385	8 23.2 22.4
											9 26.1 25.2
160	412	439	466	493	520	548	575	602	629	656	
161	683	710	737	763	790	817	844	871	898	925	**27 26**
162	952	978	*005	*032	*059	*085	*112	*139	*165	*192	
163	21 219	245	272	299	325	352	378	405	431	458	1 2.7 2.6
164	484	511	537	564	590	617	643	669	696	722	2 5.4 5.2
											3 8.1 7.8
165	748	775	801	827	854	880	906	932	958	985	4 10.8 10.4
166	22 011	037	063	089	115	141	167	194	220	246	5 13.5 13.0
167	272	298	324	350	376	401	427	453	479	505	6 16.2 15.6
168	531	557	583	608	634	660	686	712	737	763	7 18.9 18.2
169	789	814	840	866	891	917	943	968	994	*019	8 21.6 20.8
											9 24.3 23.4
170	23 045	070	096	121	147	172	198	223	249	274	
171	300	325	350	376	401	426	452	477	502	528	**25**
172	553	578	603	629	654	679	704	729	754	779	
173	805	830	855	880	905	930	955	980	*005	*030	1 2.5
174	24 055	080	105	130	155	180	204	229	254	279	2 5.0
											3 7.5
175	304	329	353	378	403	428	452	477	502	527	4 10.0
176	551	576	601	625	650	674	699	724	748	773	5 12.5
177	797	822	846	871	895	920	944	969	993	*018	6 15.0
178	25 042	066	091	115	139	164	188	212	237	261	7 17.5
179	285	310	334	358	382	406	431	455	479	503	8 20.0
											9 22.5
180	527	551	575	600	624	648	672	696	720	744	
181	768	792	816	840	864	888	912	935	959	983	**24 23**
182	26 007	031	055	079	102	126	150	174	198	221	
183	245	269	293	316	340	364	387	411	435	458	1 2.4 2.3
184	482	505	529	553	576	600	623	647	670	694	2 4.8 4.6
											3 7.2 6.9
185	717	741	764	788	811	834	858	881	905	928	4 9.6 9.2
185	951	975	998	*021	*045	*068	*091	*114	*138	*161	5 12.0 11.5
187	27 184	207	231	254	277	300	323	346	370	393	6 14.4 13.8
188	416	439	462	485	508	531	554	577	600	623	7 16.8 16.1
189	646	669	692	715	738	761	784	807	830	852	8 19.2 18.4
											9 21.6 20.7
190	875	898	921	944	967	989	*012	*035	*058	*081	
191	28 103	126	149	171	194	217	240	262	285	307	**22 21**
192	330	353	375	398	421	443	466	488	511	533	
193	556	578	601	623	646	668	691	713	735	758	1 2.2 2.1
194	780	803	825	847	870	892	914	937	959	981	2 4.4 4.2
											3 6.6 6.3
195	29 003	026	048	070	092	115	137	159	181	203	4 8.8 8.4
196	226	248	270	292	314	336	358	380	403	425	5 11.0 10.5
197	447	469	491	513	535	557	579	601	623	645	6 13.2 12.6
198	667	688	710	732	754	776	798	820	842	863	7 15.4 14.7
199	885	907	929	951	973	994	*016	*038	*060	*081	8 17.6 16.8
											9 19.8 18.9
200	30 103	125	146	168	190	211	233	255	276	298	
N	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**PP**

N	0	1	2	3	4	5	6	7	8	9	PP
200	30 103	125	146	168	190	211	233	255	276	298	
201	320	341	363	384	406	428	449	471	492	514	22 21
202	535	557	578	600	621	643	664	685	707	728	
203	750	771	792	814	835	856	878	899	920	942	1 2.2 2.1
204	963	984	*006	*027	*048	*069	*091	*112	*133	*154	2 4.4 4.2
											3 6.6 6.3
205	31 175	197	218	239	260	281	302	323	345	366	4 8.8 8.4
206	387	408	429	450	471	492	513	534	555	576	5 11.0 10.5
207	597	618	639	660	681	702	723	744	765	785	6 13.2 12.6
208	806	827	848	869	890	911	931	952	973	994	7 15.4 14.7
209	32 015	035	056	077	098	118	139	160	181	201	8 17.6 16.8
											9 19.8 18.9
210	222	243	263	284	305	325	346	366	387	408	
211	428	449	469	490	510	531	552	572	593	613	20
212	634	654	675	695	715	736	756	777	797	818	
213	838	858	879	899	919	940	960	980	*001	*021	1 2.0
214	33 041	062	082	102	122	143	163	183	203	224	2 4.0
											3 6.0
215	244	264	284	304	325	345	365	385	405	425	4 8.0
216	445	465	486	506	526	546	566	586	606	626	5 10.0
217	646	666	686	706	726	746	766	786	806	826	6 12.0
218	846	866	885	905	925	945	965	985	*005	*025	7 14.0
219	34 044	064	084	104	124	143	163	183	203	223	8 16.0
											9 18.0
220	242	262	282	301	321	341	361	380	400	420	
221	439	459	479	498	518	537	557	577	596	616	19
222	635	655	674	694	713	733	753	772	792	811	
223	830	850	869	889	908	928	947	967	986	*005	1 1.9
224	35 025	044	064	083	102	122	141	160	180	199	2 3.8
											3 5.7
225	218	238	257	276	295	315	334	353	372	392	4 7.6
226	411	430	449	468	488	507	526	545	564	583	5 9.5
227	603	622	641	660	679	698	717	736	755	774	6 11.4
228	793	813	832	851	870	889	908	927	946	965	7 13.3
229	984	*003	*021	*040	*059	*078	*097	*116	*135	*154	8 15.2
											9 17.1
230	36 173	192	211	229	248	267	286	305	324	342	
231	361	380	399	418	436	455	474	493	511	530	18
232	549	568	586	605	624	642	661	680	698	717	
233	736	754	773	791	810	829	847	866	884	903	1 1.8
234	922	940	959	977	996	*014	*033	*051	*070	*088	2 3.6
											3 5.4
235	37 107	125	144	162	181	199	218	236	254	273	4 7.2
236	291	310	328	346	365	383	401	420	438	457	5 9.0
237	475	493	511	530	548	566	585	603	621	639	6 10.8
238	658	676	694	712	731	749	767	785	803	822	7 12.6
239	840	858	876	894	912	931	949	967	985	*003	8 14.4
											9 16.2
240	38 021	039	057	075	093	112	130	148	166	184	
241	202	220	238	256	274	292	310	328	346	364	17
242	382	399	417	435	453	471	489	507	525	543	
243	561	578	596	614	632	650	668	686	703	721	1 1.7
244	739	757	775	792	810	828	846	863	881	899	2 3.4
											3 5.1
245	917	934	952	970	987	*005	*023	*041	*058	*076	4 6.8
246	39 094	111	129	146	164	182	199	217	235	252	5 8.5
247	270	287	305	322	340	358	375	393	410	428	6 10.2
248	445	463	480	498	515	533	550	568	585	602	7 11.9
249	620	637	655	672	690	707	724	742	759	777	8 13.6
											9 15.3
250	794	811	829	846	863	881	898	915	933	950	

N	0	1	2	3	4	5	6	7	8	9	PP

N	0	1	2	3	4	5	6	7	8	9	PP
250	39 794	811	829	846	863	881	898	915	933	950	
251	967	985	*002	*019	*037	*054	*071	*088	*106	*123	**18**
252	40 140	157	175	192	209	226	243	261	278	295	
253	312	329	346	364	381	398	415	432	449	466	1 | 1.8
254	483	500	518	535	552	569	586	603	620	637	2 | 3.6
											3 | 5.4
255	654	671	688	705	722	739	756	773	790	807	4 | 7.2
256	824	841	858	875	892	909	926	943	960	976	5 | 9.0
257	993	*010	*027	*044	*061	*078	*095	*111	*128	*145	6 | 10.8
258	41 162	179	196	212	229	246	263	280	296	313	7 | 12.6
259	330	347	363	380	397	414	430	447	464	481	8 | 14.4
											9 | 16.2
260	497	514	531	547	564	581	597	614	631	647	
261	664	681	697	714	731	747	764	780	797	814	**17**
262	830	847	863	880	896	913	929	946	963	979	
263	996	*012	*029	*045	*062	*078	*095	*111	*127	*144	1 | 1.7
264	42 160	177	193	210	226	243	259	275	292	308	2 | 3.4
											3 | 5.1
265	325	341	357	374	390	406	423	439	455	472	4 | 6.8
266	488	504	521	537	553	570	586	602	619	635	5 | 8.5
267	651	667	684	700	716	732	749	765	781	797	6 | 10.2
268	813	830	846	862	878	894	911	927	943	959	7 | 11.9
269	975	991	*008	*024	*040	*056	*072	*088	*104	*120	8 | 13.6
											9 | 15.3
270	43 136	152	169	185	201	217	233	249	265	281	
271	297	313	329	345	361	377	393	409	425	441	**16**
272	457	473	489	505	521	537	553	569	584	600	
273	616	632	648	664	680	696	712	727	743	759	1 | 1.6
274	775	791	807	823	838	854	870	886	902	917	2 | 3.2
											3 | 4.8
275	933	949	965	981	996	*012	*028	*044	*059	*075	4 | 6.4
276	44 091	107	122	138	154	170	185	201	217	232	5 | 8.0
277	248	264	279	295	311	326	342	358	373	389	6 | 9.6
278	404	420	436	451	467	483	498	514	529	545	7 | 11.2
279	560	576	592	607	623	638	654	669	685	700	8 | 12.8
											9 | 14.4
280	716	731	747	762	778	793	809	824	840	855	
281	871	886	902	917	932	948	963	979	994	*010	**15**
282	45 025	040	056	071	086	102	117	133	148	163	
283	179	194	209	225	240	255	271	286	301	317	1 | 1.5
284	332	347	362	378	393	408	423	439	454	469	2 | 3.0
											3 | 4.5
285	484	500	515	530	545	561	576	591	606	621	4 | 6.0
286	637	652	667	682	697	712	728	743	758	773	5 | 7.5
287	788	803	818	834	849	864	879	894	909	924	6 | 9.0
288	939	954	969	984	*000	*015	*030	*045	*060	*075	7 | 10.5
289	46 090	105	120	135	150	165	180	195	210	225	8 | 12.0
											9 | 13.5
290	240	255	270	285	300	315	330	345	359	374	
291	389	404	419	434	449	464	479	494	509	523	**14**
292	538	553	568	583	598	613	627	642	657	672	
293	687	702	716	731	746	761	776	790	805	820	1 | 1.4
294	835	850	864	879	894	909	923	938	953	967	2 | 2.8
											3 | 4.2
295	982	997	*012	*026	*041	*056	*070	*085	*100	*114	4 | 5.6
296	47 129	144	159	173	188	202	217	232	246	261	5 | 7.0
297	276	290	305	319	334	349	363	378	392	407	6 | 8.4
298	422	436	451	465	480	494	509	524	538	553	7 | 9.8
299	567	582	596	611	625	640	654	669	683	698	8 | 11.2
											9 | 12.6
300	712	727	741	756	770	784	799	813	828	842	

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N	0	1	2	3	4	5	6	7	8	9	PP
300	47 712	727	741	756	770	784	799	813	828	842	
301	857	871	885	900	914	929	943	958	972	986	
302	48 001	015	029	044	058	073	087	101	116	130	
303	144	159	173	187	202	216	230	244	259	273	15
304	287	302	316	330	344	359	373	387	401	416	
305	430	444	458	473	487	501	515	530	544	558	1 1.5
306	572	586	601	615	629	643	657	671	686	700	2 3.0
307	714	728	742	756	770	785	799	813	827	841	3 4.5
308	855	869	883	897	911	926	940	954	968	982	4 6.0
309	996	*010	*024	*038	*052	*066	*080	*094	*108	*122	5 7.5
310	49 136	150	164	178	192	206	220	234	248	262	6 9.0
311	276	290	304	318	332	346	360	374	388	402	7 10.5
312	415	429	443	457	471	485	499	513	527	541	8 12.0
313	554	568	582	596	610	624	638	651	665	679	9 13.5
314	693	707	721	734	748	762	776	790	803	817	
315	831	845	859	872	886	900	914	927	941	955	14
316	969	982	996	*010	*024	*037	*051	*065	*079	*092	1 1.4
317	50 106	120	133	147	161	174	188	202	215	229	2 2.8
318	243	256	270	284	297	311	325	338	352	365	3 4.2
319	379	393	406	420	433	447	461	474	488	501	4 5.6
320	515	529	542	556	569	583	596	610	623	637	5 7.0
321	651	664	678	691	705	718	732	745	759	772	6 8.4
322	786	799	813	826	840	853	866	880	893	907	7 9.8
323	920	934	947	961	974	987	*001	*014	*028	*041	8 11.2
324	51 055	068	081	095	108	121	135	148	162	175	9 12.6
325	188	202	215	228	242	255	268	282	295	308	
326	322	335	348	362	375	388	402	415	428	441	
327	455	468	481	495	508	521	534	548	561	574	13
328	587	601	614	627	640	654	667	680	693	706	
329	720	733	746	759	772	786	799	812	825	838	1 1.3
330	851	865	878	891	904	917	930	943	957	970	2 2.6
331	983	996	*009	*022	*035	*048	*061	*075	*088	*101	3 3.9
332	52 114	127	140	153	166	179	192	205	218	231	4 5.2
333	244	257	270	284	297	310	323	336	349	362	5 6.5
334	375	388	401	414	427	440	453	466	479	492	6 7.8
335	504	517	530	543	556	569	582	595	608	621	7 9.1
336	634	647	660	673	686	699	711	724	737	750	8 10.4
337	763	776	789	802	815	827	840	853	866	879	9 11.7
338	892	905	917	930	943	956	969	982	994	*007	
339	53 020	033	046	058	071	084	097	110	122	135	
340	148	161	173	186	199	212	224	237	250	263	12
341	275	288	301	314	326	339	352	364	377	390	1 1.2
342	403	415	428	441	453	466	479	491	504	517	2 2.4
343	529	542	555	567	580	593	605	618	631	643	3 3.6
344	656	668	681	694	706	719	732	744	757	769	4 4.8
345	782	794	807	820	832	845	857	870	882	895	5 6.0
346	908	920	933	945	958	970	983	995	*008	*020	6 7.2
347	54 033	045	058	070	083	095	108	120	133	145	7 8.4
348	158	170	183	195	208	220	233	245	258	270	8 9.6
349	283	295	307	320	332	345	357	370	382	394	9 10.8
350	407	419	432	444	456	469	481	494	506	518	
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350	54 407	419	432	444	456	469	481	494	506	518	
351	531	543	555	568	580	593	605	617	630	642	
352	654	667	679	691	704	716	728	741	753	765	
353	777	790	802	814	827	839	851	864	876	888	**13**
354	900	913	925	937	949	962	974	986	998	*011	
355	55 023	035	047	060	072	084	096	108	121	133	1 | 1.3
356	145	157	169	182	194	206	218	230	242	255	2 | 2.6
357	267	279	291	303	315	328	340	352	364	376	3 | 3.9
358	388	400	413	425	437	449	461	473	485	497	4 | 5.2
359	509	522	534	546	558	570	582	594	606	618	5 | 6.5
360	630	642	654	666	678	691	703	715	727	739	6 | 7.8
361	751	763	775	787	799	811	823	835	847	859	7 | 9.1
362	871	883	895	907	919	931	943	955	967	979	8 | 10.4
363	991	*003	*015	*027	*038	*050	*062	*074	*086	*098	9 | 11.7
364	56 110	122	134	146	158	170	182	194	205	217	
365	229	241	253	265	277	289	301	312	324	336	
366	348	360	372	384	396	407	419	431	443	455	**12**
367	467	478	490	502	514	526	538	549	561	573	
368	585	597	608	620	632	644	656	667	679	691	1 | 1.2
369	703	714	726	738	750	761	773	785	797	808	2 | 2.4
370	820	832	844	855	867	879	891	902	914	926	3 | 3.6
371	937	949	961	972	984	996	*008	*019	*031	*043	4 | 4.8
372	57 054	066	078	089	101	113	124	136	148	159	5 | 6.0
373	171	183	194	206	217	229	241	252	264	276	6 | 7.2
374	287	299	310	322	334	345	357	368	380	392	7 | 8.4
375	403	415	426	438	449	461	473	484	496	507	8 | 9.6
376	519	530	542	553	565	576	588	600	611	623	9 | 10.8
377	634	646	657	669	680	692	703	715	726	738	
378	749	761	772	784	795	807	818	830	841	852	
379	864	875	887	898	910	921	933	944	955	967	**11**
380	978	990	*001	*013	*024	*035	*047	*058	*070	*081	1 | 1.1
381	58 092	104	115	127	138	149	161	172	184	195	2 | 2.2
382	206	218	229	240	252	263	274	286	297	309	3 | 3.3
383	320	331	343	354	365	377	388	399	410	422	4 | 4.4
384	433	444	456	467	478	490	501	512	524	535	5 | 5.5
385	546	557	569	580	591	602	614	625	636	647	6 | 6.6
386	659	670	681	692	704	715	726	737	749	760	7 | 7.7
387	771	782	794	805	816	827	838	850	861	872	8 | 8.8
388	883	894	906	917	928	939	950	961	973	984	9 | 9.9
389	995	*006	*017	*028	*040	*051	*062	*073	*084	*095	
390	59 106	118	129	140	151	162	173	184	195	207	**10**
391	218	229	240	251	262	273	284	295	306	318	
392	329	340	351	362	373	384	395	406	417	428	1 | 1.0
393	439	450	461	472	483	494	506	517	528	539	2 | 2.0
394	550	561	572	583	594	605	616	627	638	649	3 | 3.0
395	660	671	682	693	704	715	726	737	748	759	4 | 4.0
396	770	780	791	802	813	824	835	846	857	868	5 | 5.0
397	879	890	901	912	923	934	945	956	966	977	6 | 6.0
398	988	999	*010	*021	*032	*043	*054	*065	*076	*086	7 | 7.0
399	60 097	108	119	130	141	152	163	173	184	195	8 | 8.0
400	206	217	228	239	249	260	271	282	293	304	9 | 9.0
N	0	1	2	3	4	5	6	7	8	9	PP

N	0	1	2	3	4	5	6	7	8	9	PP
400	60 206	217	228	239	249	260	271	282	293	304	
401	314	325	336	347	358	369	379	390	401	412	
402	423	433	444	455	466	477	487	498	509	520	
403	531	541	552	563	574	584	595	606	617	627	
404	638	649	660	670	681	692	703	713	724	735	
405	746	756	767	778	788	799	810	821	831	842	
406	853	863	874	885	895	906	917	927	938	949	**11**
407	959	970	981	991	*002	*013	*023	*034	*045	*055	
408	61 066	077	087	098	109	119	130	140	151	162	1 | 1.1
409	172	183	194	204	215	225	236	247	257	268	2 | 2.2
											3 | 3.3
410	278	289	300	310	321	331	342	352	363	374	4 | 4.4
411	384	395	405	416	426	437	448	458	469	*479	5 | 5.5
412	490	500	511	521	532	542	553	563	574	584	6 | 6.6
413	595	606	616	627	637	648	658	669	679	690	7 | 7.7
414	700	711	721	731	742	752	763	773	784	794	8 | 8.8
											9 | 9.9
415	805	815	826	836	847	857	868	878	888	899	
416	909	920	930	941	951	962	972	982	993	*003	
417	62 014	024	034	045	055	066	076	086	097	107	
418	118	128	138	149	159	170	180	190	201	211	
419	221	232	242	252	263	273	284	294	304	315	
420	325	335	346	356	366	377	387	397	408	418	
421	428	439	449	459	469	480	490	500	511	521	**10**
422	531	542	552	562	572	583	593	603	613	624	
423	634	644	655	665	675	685	696	706	716	726	1 | 1.0
424	737	747	757	767	778	788	798	808	818	829	2 | 2.0
											3 | 3.0
425	839	849	859	870	880	890	900	910	921	931	4 | 4.0
426	941	951	961	972	982	992	*002	*012	*022	*033	5 | 5.0
427	63 043	053	063	073	083	094	104	114	124	134	6 | 6.0
428	144	155	165	175	185	195	205	215	225	236	7 | 7.0
429	246	256	266	276	286	296	306	317	327	337	8 | 8.0
											9 | 9.0
430	347	357	367	377	387	397	407	417	428	438	
431	448	458	468	478	488	498	508	518	528	538	
432	548	558	568	579	589	599	609	619	629	639	
433	649	659	669	679	689	699	709	719	729	739	
434	749	759	769	779	789	799	809	819	829	839	
435	849	859	869	879	889	899	909	919	929	939	
436	949	959	969	979	988	998	*008	*018	*028	*038	**9**
437	64 048	058	068	078	088	098	108	118	128	137	
438	147	157	167	177	187	197	207	217	227	237	1 | 0.9
439	246	256	266	276	286	296	306	316	326	335	2 | 1.8
											3 | 2.7
440	345	355	365	375	385	395	404	414	424	434	4 | 3.6
441	444	454	464	473	483	493	503	513	523	532	5 | 4.5
442	542	552	562	572	582	591	601	611	621	631	6 | 5.4
443	640	650	660	670	680	689	699	709	719	729	7 | 6.3
444	738	748	758	768	777	787	797	807	816	826	8 | 7.2
											9 | 8.1
445	836	846	856	865	875	885	895	904	914	924	
446	933	943	953	963	972	982	992	*002	*011	*021	
447	65 031	040	050	060	070	079	089	099	108	118	
448	128	137	147	157	167	176	186	196	205	215	
449	225	234	244	254	263	273	283	292	302	312	
450	321	331	341	350	360	369	379	389	398	408	
N	0	1	2	3	4	5	6	7	8	9	PP

常用對數表

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450	65 321	331	341	350	360	369	379	389	398	408	
451	418	427	437	447	456	466	475	485	495	504	
452	514	523	533	543	552	562	571	581	591	600	
453	610	619	629	639	648	658	667	677	686	696	
454	706	715	725	734	744	753	763	772	782	792	
455	801	811	820	830	839	849	858	868	877	887	
456	896	906	916	925	935	944	954	963	973	982	10
457	992	*001	*011	*020	*030	*039	*049	*058	*068	*077	
458	66 087	096	106	115	124	134	143	153	162	172	1 | 1.0
459	181	191	200	210	219	229	238	247	257	266	2 | 2.0
											3 | 3.0
460	276	285	295	304	314	323	332	342	351	361	4 | 4.0
461	370	380	389	398	408	417	427	436	445	455	5 | 5.0
462	464	474	483	492	502	511	521	530	539	549	6 | 6.0
463	558	567	577	586	596	605	614	624	633	642	7 | 7.0
464	652	661	671	680	689	699	708	717	727	736	8 | 8.0
											9 | 9.0
465	745	755	764	773	783	792	801	811	820	829	
466	839	848	857	867	876	885	894	904	913	922	
467	932	941	950	960	969	978	987	997	*006	*015	
468	67 025	034	043	052	062	071	080	089	099	108	
469	117	127	136	145	154	164	173	182	191	201	
470	210	219	228	237	247	256	265	274	284	293	
471	302	311	321	330	339	348	357	367	376	385	9
472	394	403	413	422	431	440	449	459	468	477	
473	486	495	504	514	523	532	541	550	560	569	1 | 0.9
474	578	587	596	605	614	624	633	642	651	660	2 | 1.8
											3 | 2.7
475	669	679	688	697	706	715	724	733	742	752	4 | 3.6
476	761	770	779	788	797	806	815	825	834	843	5 | 4.5
477	852	861	870	879	888	897	906	916	925	934	6 | 5.4
478	943	952	961	970	979	988	997	*006	*015	*024	7 | 6.3
479	68 034	043	052	061	070	079	088	097	106	115	8 | 7.2
											9 | 8.1
480	124	133	142	151	160	169	178	187	196	205	
481	215	224	233	242	251	260	269	278	287	296	
482	305	314	323	332	341	350	359	368	377	386	
483	395	404	413	422	431	440	449	458	467	476	
484	485	494	502	511	520	529	538	547	556	565	
485	574	583	592	601	610	619	628	637	646	655	
486	664	673	681	690	699	708	717	726	735	744	8
487	753	762	771	780	789	797	806	815	824	833	
488	842	851	860	869	878	886	895	904	913	922	1 | 0.8
489	931	940	949	958	966	975	984	993	*002	*011	2 | 1.6
											3 | 2.4
490	69 020	028	037	046	055	064	073	082	090	099	4 | 3.2
491	108	117	126	135	144	152	161	170	179	188	5 | 4.0
492	197	205	214	223	232	241	249	258	267	276	6 | 4.8
493	285	294	302	311	320	329	338	346	355	364	7 | 5.6
494	373	381	390	399	408	417	425	434	443	452	8 | 6.4
											9 | 7.2
495	461	469	478	487	496	504	513	522	531	539	
496	548	557	566	574	583	592	601	609	618	627	
497	636	644	653	662	671	679	688	697	705	714	
498	723	732	740	749	758	767	775	784	793	801	
499	810	819	827	836	845	854	862	871	880	888	
500	897	906	914	923	932	940	949	958	966	975	
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500	69 897	906	914	923	932	940	949	958	966	975	
501	984	992	*001	*010	*018	*027	*036	*044	*053	*062	
502	70 070	079	088	096	105	114	122	131	140	148	
503	157	165	174	183	191	200	209	217	226	234	
504	243	252	260	269	278	286	295	303	312	321	
505	329	338	346	355	364	372	381	389	398	406	
506	415	424	432	441	449	458	467	475	484	492	9
507	501	509	518	526	535	544	552	561	569	578	
508	586	595	603	612	621	629	638	646	655	663	1 | 0.9
509	672	680	689	697	706	714	723	731	740	749	2 | 1.8
510	757	766	774	783	791	800	808	817	825	834	3 | 2.7
511	842	851	859	868	876	885	893	902	910	919	4 | 3.6
512	927	935	944	952	961	969	978	986	995	*003	5 | 4.5
513	71 012	020	029	037	046	054	063	071	079	088	6 | 5.4
514	096	105	113	122	130	139	147	155	164	172	7 | 6.3
515	181	189	198	206	214	223	231	240	248	257	8 | 7.2
516	265	273	282	290	299	307	315	324	332	341	9 | 8.1
517	349	357	366	374	383	391	399	408	416	425	
518	433	441	450	458	466	475	483	492	500	508	
519	517	525	533	542	550	559	567	575	584	592	
520	600	609	617	625	634	642	650	659	667	675	
521	684	692	700	709	717	725	734	742	750	759	8
522	767	775	784	792	800	809	817	825	834	842	
523	850	858	867	875	883	892	900	908	917	925	1 | 0.8
524	933	941	950	958	966	975	983	991	999	*008	2 | 1.6
525	72 016	024	032	041	049	057	066	074	082	090	3 | 2.4
526	099	107	115	123	132	140	148	156	165	173	4 | 3.2
527	181	189	198	206	214	222	230	239	247	255	5 | 4.0
528	263	272	280	288	296	304	313	321	329	337	6 | 4.8
529	346	354	362	370	378	387	395	403	411	419	7 | 5.6
530	428	436	444	452	460	469	477	485	493	501	8 | 6.4
531	509	518	526	534	542	550	558	567	575	583	9 | 7.2
532	591	599	607	616	624	632	640	648	656	665	
533	673	681	689	697	705	713	722	730	738	746	
534	754	762	770	779	787	795	803	811	819	827	
535	835	843	852	860	868	876	884	892	900	908	
536	916	925	933	941	949	957	965	973	981	989	7
537	997	*006	*014	*022	*030	*038	*046	*054	*062	*070	
538	73 078	086	094	102	111	119	127	135	143	151	1 | 0.7
539	159	167	175	183	191	199	207	215	223	231	2 | 1.4
540	239	247	255	263	272	280	288	296	304	312	3 | 2.1
541	320	328	336	344	352	360	368	376	384	392	4 | 2.8
542	400	408	416	424	432	440	448	456	464	472	5 | 3.5
543	480	488	496	504	512	520	528	536	544	552	6 | 4.2
544	560	568	576	584	592	600	608	616	624	632	7 | 4.9
545	640	648	656	664	672	679	687	695	703	711	8 | 5.6
546	719	727	735	743	751	759	767	775	783	791	9 | 6.3
547	799	807	815	823	830	838	846	854	862	870	
548	878	886	894	902	910	918	926	933	941	949	
549	957	965	973	981	989	997	*005	*013	*020	*028	
550	74 036	044	052	060	068	076	084	092	099	107	
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550	74 036	044	052	060	068	076	084	092	099	107	
551	115	123	131	139	147	155	162	170	178	186	
552	194	202	210	218	225	233	241	249	257	265	
553	273	280	288	296	304	312	320	327	335	343	
554	351	359	367	374	382	390	398	406	414	421	
555	429	437	445	453	461	468	476	484	492	500	
556	507	515	523	531	539	547	554	562	570	578	
557	586	593	601	609	617	624	632	640	648	656	
558	663	671	679	687	695	702	710	718	726	733	
559	741	749	757	764	772	780	788	796	803	811	
560	819	827	834	842	850	858	865	873	881	889	8
561	896	904	912	920	927	935	943	950	958	966	
562	974	981	989	997	*005	*012	*020	*028	*035	*043	1 | 0.8
563	75 051	059	066	074	082	089	097	105	113	120	2 | 1.6
564	128	136	143	151	159	166	174	182	189	197	3 | 2.4
565	205	213	220	228	236	243	251	259	266	274	4 | 3.2
566	282	289	297	305	312	320	328	335	343	351	5 | 4.0
567	358	366	374	381	389	397	404	412	420	427	6 | 4.8
568	435	442	450	458	465	473	481	488	496	504	7 | 5.6
569	511	519	526	534	542	549	557	565	572	580	8 | 6.4
											9 | 7.2
570	587	595	603	610	618	626	633	641	648	656	
571	664	671	679	686	694	702	709	717	724	732	
572	740	747	755	762	770	778	785	793	800	808	
573	815	823	831	838	846	853	861	868	876	884	
574	891	899	906	914	921	929	937	944	952	959	
575	967	974	982	989	997	*005	*012	*020	*027	*035	
576	76 042	050	057	065	072	080	087	095	103	110	
577	118	125	133	140	148	155	163	170	178	185	
578	193	200	208	215	223	230	238	245	253	260	
579	268	275	283	290	298	305	313	320	328	335	
580	343	350	358	365	373	380	388	395	403	410	7
581	418	425	433	440	448	455	462	470	477	485	
582	492	500	507	515	522	530	537	545	552	559	1 | 0.7
583	567	574	582	589	597	604	612	619	626	634	2 | 1.4
584	641	649	656	664	671	678	686	693	701	708	3 | 2.1
585	716	723	730	738	745	753	760	768	775	782	4 | 2.8
586	790	797	805	812	819	827	834	842	849	856	5 | 3.5
587	864	871	879	886	893	901	908	916	923	930	6 | 4.2
588	938	945	953	960	967	975	982	989	997	*004	7 | 4.9
589	77 012	019	026	034	041	048	056	063	070	078	8 | 5.6
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590	085	093	100	107	115	122	129	137	144	151	
591	159	166	173	181	188	195	203	210	217	225	
592	232	240	247	254	262	269	276	283	291	298	
593	305	313	320	327	335	342	349	357	364	371	
594	379	386	393	401	408	415	422	430	437	444	
595	452	459	466	474	481	488	495	503	510	517	
596	525	532	539	546	554	561	568	576	583	590	
597	597	605	612	619	627	634	641	648	656	663	
598	670	677	685	692	699	706	714	721	728	735	
599	743	750	757	764	772	779	786	793	801	808	
600	815	822	830	837	844	851	859	866	873	880	
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600	77 815	822	830	837	844	851	859	866	873	880	
601	887	895	902	909	916	924	931	938	945	952	
602	960	967	974	981	988	996	*003	*010	*017	*025	
603	78 032	039	046	053	061	068	075	082	089	097	
604	104	111	118	125	132	140	147	154	161	168	
605	176	183	190	197	204	211	219	226	233	240	
606	247	254	262	269	276	283	290	297	305	312	8
607	319	326	333	340	347	355	362	369	376	383	
608	390	398	405	412	419	426	433	440	447	455	1 0.8
609	462	469	476	483	490	497	504	512	519	526	2 1.6
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610	533	540	547	554	561	569	576	583	590	597	4 3.2
611	604	611	618	625	633	640	647	654	661	668	5 4.0
612	675	682	689	696	704	711	718	725	732	739	6 4.8
613	746	753	760	767	774	781	789	796	803	810	7 5.6
614	817	824	831	838	845	852	859	866	873	880	8 6.4
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615	888	895	902	909	916	923	930	937	944	951	
616	958	965	972	979	986	993	*000	*007	*014	*021	
617	79 029	036	043	050	057	064	071	078	085	092	
618	099	106	113	120	127	134	141	148	155	162	
619	169	176	183	190	197	204	211	218	225	232	
620	239	246	253	260	267	274	281	288	295	302	
621	309	316	323	330	337	344	351	358	365	372	
622	379	386	393	400	407	414	421	428	435	442	7
623	449	456	463	470	477	484	491	498	505	511	1 0.7
624	518	525	532	539	546	553	560	567	574	581	2 1.4
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625	588	595	602	609	616	623	630	637	644	650	4 2.8
626	657	664	671	678	685	692	699	706	713	720	5 3.5
627	727	734	741	748	754	761	768	775	782	789	6 4.2
628	796	803	810	817	824	831	837	844	851	858	7 4.9
629	865	872	879	886	893	900	906	913	920	927	8 5.6
											9 6.3
630	934	941	948	955	962	969	975	982	989	996	
631	80 003	010	017	024	030	037	044	051	058	065	
632	072	079	085	092	099	106	113	120	127	134	
633	140	147	154	161	168	175	182	188	195	202	
634	209	216	223	229	236	243	250	257	264	271	
635	277	284	291	298	305	312	318	325	332	339	
636	346	353	359	366	373	380	387	393	400	407	
637	414	421	428	434	441	448	455	462	468	475	6
638	482	489	496	502	509	516	523	530	536	543	1 0.6
639	550	557	564	570	577	584	591	598	604	611	2 1.2
											3 1.8
640	618	625	632	638	645	652	659	665	672	679	4 2.4
641	686	693	699	706	713	720	726	733	740	747	5 3.0
642	754	760	767	774	781	787	794	801	808	814	6 3.6
643	821	828	835	841	848	855	862	868	875	882	7 4.2
644	889	895	902	909	916	922	929	936	943	949	8 4.8
											9 5.4
645	956	963	969	976	983	990	996	*003	*010	*017	
646	81 023	030	037	043	050	057	064	070	077	084	
647	090	097	104	111	117	124	131	137	144	151	
648	158	164	171	178	184	191	198	204	211	218	
649	224	231	238	245	251	258	265	271	278	285	
650	291	298	305	311	318	325	331	338	345	351	
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常用對數表

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650	81 291	298	305	311	318	325	331	338	345	351	
651	358	365	371	378	385	391	398	405	411	418	
652	425	431	438	445	451	458	465	471	478	485	
653	491	498	505	511	518	525	531	538	544	551	
654	558	564	571	578	584	591	598	604	611	617	
655	624	631	637	644	651	657	664	671	677	684	
656	690	697	704	710	717	723	730	737	743	750	
657	757	763	770	776	783	790	796	803	809	816	
658	823	829	836	842	849	856	862	869	875	882	
659	889	895	902	908	915	921	928	935	941	948	
660	954	961	968	974	981	987	994	*000	*007	*014	7
661	82 020	027	033	040	046	053	060	066	073	079	1 | 0.7
662	086	092	099	105	112	119	125	132	138	145	2 | 1.4
663	151	158	164	171	178	184	191	197	204	210	3 | 2.1
664	217	223	230	236	243	249	256	263	269	276	4 | 2.8
665	282	289	295	302	308	315	321	328	334	341	5 | 3.5
666	347	354	360	367	373	380	387	393	400	406	6 | 4.2
667	413	419	426	432	439	445	452	458	465	471	7 | 4.9
668	478	484	491	497	504	510	517	523	530	536	8 | 5.6
669	543	549	556	562	569	575	582	588	595	601	9 | 6.3
670	607	614	620	627	633	640	646	653	659	666	
671	672	679	685	692	698	705	711	718	724	730	
672	737	743	750	756	763	769	776	782	789	795	
673	802	808	814	821	827	834	840	847	853	860	
674	866	872	879	885	892	898	905	911	918	824	
675	930	937	943	950	956	963	969	975	982	988	
676	995	*001	*008	*014	*020	*027	*033	*040	*046	*052	
677	83 059	065	072	078	085	091	097	104	110	117	
678	123	129	136	142	149	155	161	168	174	181	
679	187	193	200	206	213	219	225	232	238	245	
680	251	257	264	270	276	283	289	296	302	308	
681	315	321	327	334	340	347	353	359	366	372	6
682	378	385	391	398	404	410	417	423	429	436	
683	442	448	455	461	467	474	480	487	493	499	1 | 0.6
684	506	512	518	525	531	537	544	550	556	563	2 | 1.2
685	569	575	582	588	594	601	607	613	620	626	3 | 1.8
686	632	639	645	651	658	664	670	677	683	689	4 | 2.4
687	696	702	708	715	721	727	734	740	746	753	5 | 3.0
688	759	765	771	778	784	790	797	803	809	816	6 | 3.6
689	822	828	835	841	847	853	860	866	872	879	7 | 4.2
690	885	891	897	904	910	916	923	929	935	942	8 | 4.8
691	948	954	960	967	973	979	985	992	998	*004	9 | 5.4
692	84 011	017	023	029	036	042	048	055	061	067	
693	073	080	086	092	098	105	111	117	123	130	
694	136	142	148	155	161	167	173	180	186	192	
695	198	205	211	217	223	230	236	242	248	255	
696	261	267	273	280	286	292	298	305	311	317	
697	323	330	336	342	348	354	361	367	373	379	
698	386	392	398	404	410	417	423	429	435	442	
699	448	454	460	466	473	479	485	491	497	504	
700	510	516	522	528	535	541	547	553	559	566	
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700	84 510	516	522	528	535	541	547	553	559	566	
701	572	578	584	590	597	603	609	615	621	628	
702	634	640	646	652	658	665	671	677	683	689	
703	696	702	708	714	720	726	733	739	745	751	
704	757	763	770	776	782	788	794	800	807	813	
705	819	825	831	837	844	850	856	862	868	874	
706	880	887	893	899	905	911	917	924	930	936	**7**
707	942	948	954	960	967	973	979	985	991	997	
708	85 003	009	016	022	028	034	040	046	052	058	1 | 0.7
709	065	071	077	083	089	095	101	107	114	120	2 | 1.4
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710	126	132	138	144	150	156	163	169	175	181	4 | 2.8
711	187	193	199	205	211	217	224	230	236	242	5 | 3.5
712	248	254	260	266	272	278	285	291	297	303	6 | 4.2
713	309	315	321	327	333	339	345	352	358	364	7 | 4.9
714	370	376	382	388	394	400	406	412	418	425	8 | 5.6
											9 | 6.3
715	431	437	443	449	455	461	467	473	479	485	
716	491	497	503	509	516	522	528	534	540	546	
717	552	558	564	570	576	582	588	594	600	606	
718	612	618	625	631	637	643	649	655	661	667	
719	673	679	685	691	697	703	709	715	721	727	
720	733	739	745	751	757	763	769	775	781	788	
721	794	800	806	812	818	824	830	836	842	848	**6**
722	854	860	866	872	878	884	890	896	902	908	
723	914	920	926	932	938	944	950	956	962	968	1 | 0.6
724	974	980	986	992	998	*004	*010	*016	*022	*028	2 | 1.2
											3 | 1.8
725	86 034	040	046	052	058	064	070	076	082	088	4 | 2.4
726	094	100	106	112	118	124	130	136	141	147	5 | 3.0
727	153	159	165	171	177	183	189	195	201	207	6 | 3.6
728	213	219	225	231	237	243	249	255	261	267	7 | 4.2
729	273	279	285	291	297	303	308	314	320	326	8 | 4.8
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730	332	338	344	350	356	362	368	374	380	386	
731	392	398	404	410	415	421	427	433	439	445	
732	451	457	463	469	475	481	487	493	499	504	
733	510	516	522	528	534	540	546	552	558	564	
734	570	576	581	587	593	599	605	611	617	623	
735	629	635	641	646	652	658	664	670	676	682	
736	688	694	700	705	711	717	723	729	735	741	**5**
737	747	753	759	764	770	776	782	788	794	800	
738	806	812	817	823	829	835	841	847	853	859	1 | 0.5
739	864	870	876	882	888	894	900	906	911	917	2 | 1.0
											3 | 1.5
740	923	929	935	941	947	953	958	964	970	976	4 | 2.0
741	982	988	994	999	*005	*011	*017	*023	*029	*035	5 | 2.5
742	87 040	046	052	058	064	070	075	081	087	093	6 | 3.0
743	099	105	111	116	122	128	134	140	146	151	7 | 3.5
744	157	163	169	175	181	186	192	198	204	210	8 | 4.0
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745	216	221	227	233	239	245	251	256	262	268	
746	274	280	286	291	297	303	309	315	320	326	
747	332	338	344	349	355	361	367	373	379	384	
748	390	396	402	408	413	419	425	431	437	442	
749	448	454	460	466	471	477	483	489	495	500	
750	506	512	518	523	529	535	541	547	552	558	

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N	0	1	2	3	4	5	6	7	8	9	PP
750	87 506	512	518	523	529	535	541	547	552	558	
751	564	570	576	581	587	593	599	604	610	616	
752	622	628	633	639	645	651	656	662	668	674	
753	679	685	691	697	703	708	714	720	726	731	
754	737	743	749	754	760	766	772	777	783	789	
755	795	800	806	812	818	823	829	835	841	846	
756	852	858	864	869	875	881	887	892	898	904	
757	910	915	921	927	933	938	944	950	955	961	
758	967	973	978	984	990	996	*001	*007	*013	*018	
759	88 024	030	036	041	047	053	058	064	070	076	
760	081	087	093	098	104	110	116	121	127	133	
761	138	144	150	156	161	167	173	178	184	190	6
762	195	201	207	213	218	224	230	235	241	247	
763	252	258	264	270	275	281	287	292	298	304	1 | 0.6
764	309	315	321	326	332	338	343	349	355	360	2 | 1.2
765	366	372	377	383	389	395	400	406	412	417	3 | 1.8
766	423	429	434	440	446	451	457	463	468	474	4 | 2.4
767	480	485	491	497	502	508	513	519	525	530	5 | 3.0
768	536	542	547	553	559	564	570	576	581	587	6 | 3.6
769	593	598	604	610	615	621	627	632	638	643	7 | 4.2
770	649	655	660	666	672	677	683	689	694	700	8 | 4.8
771	705	711	717	722	728	734	739	745	750	756	9 | 5.4
772	762	767	773	779	784	790	795	801	807	812	
773	818	824	829	835	840	846	852	857	863	868	
774	874	880	885	891	897	902	908	913	919	925	
775	930	936	941	947	953	958	964	969	975	981	
776	986	992	997	*003	*009	*014	*020	*025	*031	*037	
777	89 042	048	053	059	064	070	076	081	087	092	
778	098	104	109	115	120	126	131	137	143	148	
779	154	159	165	170	176	182	187	193	198	204	
780	209	215	221	226	232	237	243	248	254	260	
781	265	271	276	282	287	293	298	304	310	315	5
782	321	326	332	337	343	348	354	360	365	371	
783	376	382	387	393	398	404	409	415	421	426	1 | 0.5
784	432	437	443	448	454	459	465	470	476	481	2 | 1.0
785	487	492	498	504	509	515	520	526	531	537	3 | 1.5
786	542	548	553	559	564	570	575	581	586	592	4 | 2.0
787	597	603	609	614	620	625	631	636	642	647	5 | 2.5
788	653	658	664	669	675	680	686	691	697	702	6 | 3.0
789	708	713	719	724	730	735	741	746	752	757	7 | 3.5
790	763	768	774	779	785	790	796	801	807	812	8 | 4.0
791	818	823	829	834	840	845	851	856	862	867	9 | 4.5
792	873	878	883	889	894	900	905	911	916	922	
793	927	933	938	944	949	955	960	966	971	977	
794	982	988	993	998	*004	*009	*015	*020	*026	*031	
795	90 037	042	048	053	059	064	069	075	080	086	
796	091	097	102	108	113	119	124	129	135	140	
797	146	151	157	162	168	173	179	184	189	195	
798	200	206	211	217	222	227	233	238	244	249	
799	255	260	266	271	276	282	287	293	298	304	
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800	90 309	314	320	325	331	336	342	347	352	358	
801	363	369	374	380	385	390	396	401	407	412	
802	417	423	428	434	439	445	450	455	461	466	
803	472	477	482	488	493	499	504	509	515	520	
804	526	531	536	542	547	553	558	563	569	574	
805	580	585	590	596	601	607	612	617	623	628	
806	634	639	644	650	655	660	666	671	677	682	
807	687	693	698	703	709	714	720	725	730	736	
808	741	747	752	757	763	768	773	779	784	789	
809	795	800	806	811	816	822	827	832	838	843	
810	849	854	859	865	870	875	881	886	891	897	
811	902	907	913	918	924	929	934	940	945	950	6
812	956	961	966	972	977	982	988	993	998	*004	
813	91 009	014	020	025	030	036	041	046	052	057	1 | 0.6
814	062	068	073	078	084	089	094	100	105	110	2 | 1.2
											3 | 1.8
815	116	121	126	132	137	142	148	153	158	164	4 | 2.4
816	169	174	180	185	190	196	201	206	212	217	5 | 3.0
817	222	228	233	238	243	249	254	259	265	270	6 | 3.6
818	275	281	286	291	297	302	307	312	318	323	7 | 4.2
819	328	334	339	344	350	355	360	365	371	376	8 | 4.8
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820	381	387	392	397	403	408	413	418	424	429	
821	434	440	445	450	455	461	466	471	477	482	
822	487	492	498	503	508	514	519	524	529	535	
823	540	545	551	556	561	566	572	577	582	587	
824	593	598	603	609	614	619	624	630	635	640	
825	645	651	656	661	666	672	677	682	687	693	
826	698	703	709	714	719	724	730	735	740	745	
827	751	756	761	766	772	777	782	787	793	798	
828	803	808	814	819	824	829	834	840	845	850	
829	855	861	866	871	876	882	887	892	897	903	
830	908	913	918	924	929	934	939	944	950	955	
831	960	965	971	976	981	986	991	997	*002	*007	5
832	92 012	018	023	028	033	038	044	049	054	059	
833	065	070	075	080	085	091	096	101	106	111	1 | 0.5
834	117	122	127	132	137	143	148	153	158	163	2 | 1.0
											3 | 1.5
835	169	174	179	184	189	195	200	205	210	215	4 | 2.0
836	221	226	231	236	241	247	252	257	262	267	5 | 2.5
837	273	278	283	288	293	298	304	309	314	319	6 | 3.0
838	324	330	335	340	345	350	355	361	366	371	7 | 3.5
839	376	381	387	392	397	402	407	412	418	423	8 | 4.0
											9 | 4.5
840	428	433	438	443	449	454	459	464	469	474	
841	480	485	490	495	500	505	511	516	521	526	
842	531	536	542	547	552	557	562	567	572	578	
843	583	588	593	598	603	609	614	619	624	629	
844	634	639	645	650	655	660	665	670	675	681	
845	686	691	696	701	706	711	716	722	727	732	
846	737	742	747	752	758	763	768	773	778	783	
847	788	793	799	804	809	814	819	824	829	834	
848	840	845	850	855	860	865	870	875	881	886	
849	891	896	901	906	911	916	921	927	932	937	
850	942	947	952	957	962	967	973	978	983	988	
N	0	1	2	3	4	5	6	7	8	9	PP

N	0	1	2	3	4	5	6	7	8	9	PP
850	92 942	947	952	957	962	967	973	978	983	988	
851	993	998	*003	*008	*013	*018	*024	*029	*034	*039	
852	93 044	049	054	059	064	069	075	080	085	090	
853	095	100	105	110	115	120	125	131	136	141	
854	146	151	156	161	166	171	176	181	186	192	
855	197	202	207	212	217	222	227	232	237	242	
856	247	252	258	263	268	273	278	283	288	293	**6**
857	298	303	308	313	318	323	328	334	339	344	
858	349	354	359	364	369	374	379	384	389	394	1 | 0.6
859	399	404	409	414	420	425	430	435	440	445	2 | 1.2
											3 | 1.8
860	450	455	460	465	470	475	480	485	490	495	4 | 2.4
861	500	505	510	515	520	526	531	536	541	546	5 | 3.0
862	551	556	561	566	571	576	581	586	591	596	6 | 3.6
863	601	606	611	616	621	626	631	636	641	646	7 | 4.2
864	651	656	661	666	671	676	682	687	692	697	8 | 4.8
											9 | 5.4
865	702	707	712	717	722	727	732	737	742	747	
866	752	757	762	767	772	777	782	787	792	797	
867	802	807	812	817	822	827	832	837	842	847	
868	852	857	862	867	872	877	882	887	892	897	
869	902	907	912	917	922	927	932	937	942	947	
870	952	957	962	967	972	977	982	987	992	997	
871	94 002	007	012	017	022	027	032	037	042	047	**5**
872	052	057	062	067	072	077	082	086	091	096	
873	101	106	111	116	121	126	131	136	141	146	1 | 0.5
874	151	156	161	166	171	176	181	186	191	196	2 | 1.0
											3 | 1.5
875	201	206	211	216	221	226	231	236	240	245	4 | 2.0
876	250	255	260	265	270	275	280	285	290	295	5 | 2.5
877	300	305	310	315	320	325	330	335	340	345	6 | 3.0
878	349	354	359	364	369	374	379	384	389	394	7 | 3.5
879	399	404	409	414	419	424	429	433	438	443	8 | 4.0
											9 | 4.5
880	448	453	458	463	468	473	478	483	488	493	
881	498	503	507	512	517	522	527	532	537	542	
882	547	552	557	562	567	571	576	581	586	591	
883	596	601	606	611	616	621	626	630	635	640	
884	645	650	655	660	665	670	675	680	685	689	
885	694	699	704	709	714	719	724	729	734	738	
886	743	748	753	758	763	768	773	778	783	787	**4**
887	792	797	802	807	812	817	822	827	832	836	
888	841	846	851	856	861	866	871	876	880	885	1 | 0.4
889	890	895	900	905	910	915	919	924	929	934	2 | 0.8
											3 | 1.2
890	939	944	949	954	959	963	968	973	978	983	4 | 1.6
891	988	993	998	*002	*007	*012	*017	*022	*027	*032	5 | 2.0
892	95 036	041	046	051	056	061	066	071	075	080	6 | 2.4
893	085	090	095	100	105	109	114	119	124	129	7 | 2.8
894	134	139	143	148	153	158	163	168	173	177	8 | 3.2
											9 | 3.6
895	182	187	192	197	202	207	211	216	221	226	
896	231	236	240	245	250	255	260	265	270	274	
897	279	284	289	294	299	303	308	313	318	323	
898	328	332	337	342	347	352	357	361	366	371	
899	376	381	386	390	395	400	405	410	415	419	
900	424	429	434	439	444	448	453	458	463	468	
N	0	1	2	3	4	5	6	7	8	9	PP

N	0	1	2	3	4	5	6	7	8	9	PP
900	95 424	429	434	439	444	448	453	458	463	468	
901	472	477	482	487	492	497	501	506	511	516	
902	521	525	530	535	540	545	550	554	559	564	
903	569	574	578	583	588	593	598	602	607	612	
904	617	622	626	631	636	641	646	650	655	660	
905	665	670	674	679	684	689	694	698	703	708	
906	713	718	722	727	732	737	742	746	751	756	
907	761	766	770	775	780	785	789	794	799	804	
908	809	813	818	823	828	832	837	842	847	852	
909	856	861	866	871	875	880	885	890	895	899	
910	904	909	914	918	923	928	933	938	942	947	
911	952	957	961	966	971	976	980	985	990	995	5
912	999	*004	*009	*014	*019	*023	*028	*033	*038	*042	
913	96 047	052	057	061	066	071	076	080	085	090	1 | 0.5
914	095	099	104	019	114	118	123	128	133	137	2 | 1.0
915	142	147	152	156	161	166	171	175	180	185	3 | 1.5
916	190	194	199	204	209	213	218	223	227	232	4 | 2.0
917	237	242	246	251	256	261	265	270	275	280	5 | 2.5
918	284	289	294	298	303	308	313	317	322	327	6 | 3.0
919	332	336	341	346	350	355	360	365	369	374	7 | 3.5
920	379	384	388	393	398	402	407	412	417	421	8 | 4.0
921	426	431	435	440	445	450	454	459	464	468	9 | 4.5
922	473	478	483	487	492	497	501	506	511	515	
923	520	525	530	534	539	544	548	553	558	562	
924	567	572	577	581	586	591	595	600	605	609	
925	614	619	624	628	633	638	642	647	652	656	
926	661	666	670	675	680	685	689	694	699	703	
927	708	713	717	722	727	731	736	741	745	750	
928	755	759	764	769	774	778	783	788	792	797	
929	802	806	811	816	820	825	830	834	839	844	
930	848	853	858	862	867	872	876	881	886	890	
931	895	900	904	909	914	918	923	928	932	937	4
932	942	946	951	956	960	965	970	974	979	984	
933	988	993	997	*002	*007	*011	*016	*021	*025	*030	1 | 0.4
934	97 035	039	044	049	053	058	063	067	072	077	2 | 0.8
935	081	086	090	095	100	104	109	114	118	123	3 | 1.2
936	128	132	137	142	146	151	155	160	165	169	4 | 1.6
937	174	179	183	188	192	197	202	206	211	216	5 | 2.0
938	220	225	230	234	239	243	248	253	257	262	6 | 2.4
939	267	271	276	280	285	290	294	299	304	308	7 | 2.8
940	313	317	322	327	331	336	340	345	350	354	8 | 3.2
941	359	364	368	373	377	382	387	391	396	400	9 | 3.6
942	405	410	414	419	424	428	433	437	442	447	
943	451	456	460	465	470	474	479	483	488	493	
944	497	502	506	511	516	520	525	529	534	539	
945	543	548	552	557	562	566	571	575	580	585	
946	589	594	598	603	607	612	617	621	626	630	
947	635	640	644	649	653	658	663	667	672	676	
948	681	685	690	695	699	704	708	713	717	722	
949	727	731	736	740	745	749	754	759	763	768	
950	772	777	782	786	791	795	800	804	809	813	
N	0	1	2	3	4	5	6	7	8	9	PP

N	0	1	2	3	4	5	6	7	8	9	PP
950	97 772	777	782	786	791	795	800	804	809	813	
951	818	823	827	832	836	841	845	850	855	859	
952	864	868	873	877	882	886	891	896	900	905	
953	909	914	918	923	928	932	937	941	946	950	
954	955	959	964	968	973	978	982	987	991	996	
955	98 000	005	009	014	019	023	028	032	037	041	
956	046	050	055	059	064	068	073	078	082	087	
957	091	096	100	105	109	114	118	123	127	132	
958	137	141	146	150	155	159	164	168	173	177	
959	182	186	191	195	200	204	209	214	218	223	
960	227	232	236	241	245	250	254	259	263	268	
961	272	277	281	286	290	295	299	304	308	313	5
962	318	322	327	331	336	340	345	349	354	358	
963	363	367	372	376	381	385	390	394	399	403	1 | 0.5
964	408	412	417	421	426	430	435	439	444	448	2 | 1.0
965	453	457	462	466	471	475	480	484	489	493	3 | 1.5
966	498	502	507	511	516	520	525	529	534	538	4 | 2.0
967	543	547	552	556	561	565	570	574	579	583	5 | 2.5
968	588	592	597	601	605	610	614	619	623	628	6 | 3.0
969	632	637	641	646	650	655	659	664	668	673	7 | 3.5
970	677	682	686	691	695	700	704	709	713	717	8 | 4.0
971	722	726	731	735	740	744	749	753	758	762	9 | 4.5
972	767	771	776	780	784	789	793	798	802	807	
973	811	816	820	825	829	834	838	843	847	851	
974	856	860	865	869	874	878	883	887	892	896	
975	900	905	909	914	918	923	927	932	936	941	
976	945	949	954	958	963	967	972	976	981	985	
977	989	994	998	*003	*007	*012	*016	*021	*025	*029	
978	99 034	038	043	047	052	056	061	065	069	074	
979	078	083	087	092	096	100	105	109	114	118	
980	123	127	131	136	140	145	149	154	158	162	
981	167	171	176	180	185	189	193	198	202	207	4
982	211	216	220	224	229	233	238	242	247	251	
983	255	260	264	269	273	277	282	286	291	295	1 | 0.4
984	300	304	308	313	317	322	326	330	335	339	2 | 0.8
985	344	348	352	357	361	366	370	374	379	383	3 | 1.2
986	388	392	396	401	405	410	414	419	423	427	4 | 1.6
987	432	436	441	445	449	454	458	463	467	471	5 | 2.0
988	476	480	484	489	493	498	502	506	511	515	6 | 2.4
989	520	524	528	533	537	542	546	550	555	559	7 | 2.8
990	564	568	572	577	581	585	590	594	599	603	8 | 3.2
991	607	612	616	621	625	629	634	638	642	647	9 | 3.6
992	651	656	660	664	669	673	677	682	686	691	
993	695	699	704	708	712	717	721	726	730	734	
994	739	743	747	752	756	760	765	769	774	778	
995	782	787	791	795	800	804	808	813	817	822	
996	826	830	835	839	843	848	852	856	861	865	
997	870	874	878	883	887	891	896	900	904	909	
998	913	917	922	926	930	935	939	944	948	952	
999	957	961	965	970	974	978	983	987	991	996	
1000	00 000	004	009	013	017	022	026	030	035	039	
N	0	1	2	3	4	5	6	7	8	9	PP

三角函數對數表

0′—3′,89°57′—90°以每秒計
3′—20,88°—89°57′以每10秒計
2°—88°以每分計
小數五位

0′—3′

L Sin and L Tan					L Sin and L Tan				
″	0′	1′	2′	″	″	0′	1′	2′	″
0	———	6 46 373	6.76 476	**60**	**30**	6.16 270	6.63 982	6.86 167	**30**
1	4.68 557	6 47 090	6.76 836	59	31	6.17 694	6.64 462	6.86 455	29
2	4.98 660	6.47 797	6.77 193	58	32	6.19 072	6.64 936	6.86 742	28
3	5.16 270	6.48 492	6.77 548	57	33	6.20 409	6.65 406	6.87 027	27
4	5.28 763	6.49 175	6.77. 900	56	34	6.21 705	6.65 870	6.87 310	26
5	5.38 454	6.49 849	6.78 248	**55**	**35**	6.22 964	6.66 330	6.87 591	**25**
6	5.46 373	6.50 512	6.78 595	54	36	6.24 188	6.66 785	6.87 870	24
7	5.53 067	6.51 165	6.78 938	53	37	6.25 378	6.67 235	6.88 147	23
8	5.58 866	6.51 808	6.79 278	52	38	6.26 536	6.67 680	6.88 423	22
9	5.63 982	6.52 442	6.79.616	51	39	6.27 664	6.68 121	6.88 697	21
10	5.68 557	6.53 067	6.79 952	**50**	**40**	6.28 763	6.68 557	6.88 969	**20**
11	5.72 697	6.53 683	6.80 285	49	41	6.29 836	6.68 990	6.89 240	19
12	5.76 476	6.54 291	6.80 615	48	42	6.30 882	6.69 418	6.89 509	18
13	5.79 952	6.54 890	6.80 943	47	43	6.31 904	6.69 841	6.89 776	17
14	5.83 170	6.55 481	6.81 268	46	44	6.32 903	6.70 261	6.90 042	16
15	5.86 167	6.56 064	6.81 591	**45**	**45**	6.33 879	6.70 676	6.90 306	**15**
16	5.88 969	6.56 639	6.81 911	44	46	6.34 833	6.71 088	6.90 568	14
17	5.91 602	6.57 207	6.82 230	43	47	6.35 767	6.71 496	6.90 829	13
18	5.94 085	6.57 767	6.82 545	42	48	6.36 682	6.71 900	6.91 088	12
19	5.96 433	6.58 320	6.82 859	41	49	6.37 577	6.72 300	6.91 346	11
20	5.98 660	6.58 866	6.83 170	**40**	**50**	6.38 454	6.72 697	6.91 602	**10**
21	6.00 779	6.59 406	6.83 479	39	51	6.39 315	6.73 090	6.91 857	9
22	6.02 800	6.59 939	6.83 786	38	52	6.40 158	6.73 479	6.92 110	8
23	6.04 730	6.60 465	6.84 091	37	53	6.40 985	6.73 865	6.92 362	7
24	6.06 579	6.60 985	6.84 394	36	54	6.41 797	6.74 248	6.92 612	6
25	6.08 351	6.61 499	6.84 694	**35**	**55**	6.42 594	6.74 627	6.92 861	**5**
26	6.10 055	6.62 007	6.84 993	34	56	6.43 376	6.75 003	6.93 109	4
27	6.11 694	6.62 509	6.85 289	33	57	6.44 145	6.75 376	6.93 355	3
28	6.13 273	6.63 006	6.85 584	32	58	6.44 900	6.75 746	6.93 599	2
29	6.14 797	6.63 496	6.85 876	31	59	6.45 643	6.76 112	6.93 843	1
30	6.16 270	6.63 982	6.86 167	**30**	**60**	6.46 373	6.76 476	6.94 085	**0**
″	59′	58′	57′	″	″	59′	58′	57′	″
L Cos and L Cot					L Cos and L Cot				

89°57′—90°

此頁檢得之對數,應各附記−10於其後

3′ 以下及 89°57′ 以上之角之三角函數對數已見第 21 頁

′ ″	L Sin	L Cos	L Tan	″ ′
3 0	6.94 085	0.00 000	6.94 085	0 57
10	6.96 433	0.00 000	6.96 433	50
20	6.98 660	0.00 000	6.98 661	40
30	7.00 779	0.00 000	7.00 779	30
40	7.02 800	0.00 000	7.02 800	20
50	7.04 730	0.00 000	7.04 730	10
4 0	7.06 579	0.00 000	7.06 579	0 56
10	7.08 351	0.00 000	7.08 352	50
20	7.10 055	0.00 000	7.10 055	40
30	7.11 694	0.00 000	7.11 694	30
40	7.13 273	0.00 000	7.13 273	20
50	7.14 797	0.00 000	7.14 797	10
5 0	7.16 270	0.00 000	7.16 270	0 55
10	7.17 694	0.00 000	7.17 694	50
20	7.19 072	0.00 000	7.19 073	40
30	7.20 409	0.00 000	7.20 409	30
40	7.21 705	0.00 000	7.21 705	20
50	7.22 964	0.00 000	7.22 964	10
6 0	7.24 188	0.00 000	7.24 188	0 54
10	7.25 378	0.00 000	7.25 378	50
20	7.26 536	0.00 000	7.26 536	40
30	7.27 664	0.00 000	7.27 664	30
40	7.28 763	0.00 000	7.28 764	20
50	7.29 836	0.00 000	7.29 836	10
7 0	7.30 882	0.00 000	7.30 882	0 53
10	7.31 904	0.00 000	7.31 904	50
20	7.32 903	0.00 000	7.32 903	50
30	7.33 879	0.00 000	7.33 879	30
40	7.34 833	0.00 000	7.34 833	20
50	7.35 767	0.00 000	7.35 767	10
8 0	7.36 682	0.00 000	7.36 682	0 52
10	7.37 577	0.00 000	7.37 577	50
20	7.38 454	0.00 000	7.38 455	40
30	7.39 314	0.00 000	7.39 315	30
40	7.40 158	0.00 000	7.40 158	20
50	7.40 985	0.00 000	7.40 985	10
9 0	7.41 797	0.00 000	7.41 797	0 51
10	7.42 594	0.00 000	7.42 594	50
20	7.43 376	0.00 000	7.43 376	40
30	7.44 145	0.00 000	7.44 145	30
40	7.44 900	0.00 000	7.44 900	20
50	7.45 643	0.00 000	7.45 643	10
10 0	7.46 373	0.00 000	7.46 373	0 50
′ ″	L Cos	L Sin	L Cot	″ ′

′ ″	L Sin	L Cos	L Tan	″ ′
10 0	7.46 373	0.00 000	7.46 373	0 50
10	7.47 090	0.00 000	7.47 091	50
20	7.47 797	0.00 000	7.47 797	40
30	7.48 491	0.00 000	7.48 492	30
40	7.49 175	0.00 000	7.49 176	20
50	7.49 849	0.00 000	7.49 849	10
11 0	7.50 512	0.00 000	7.50 512	0 49
10	7.51 165	0.00 000	7.51 165	50
20	7.51 808	0.00 000	7.51 809	40
30	7.52 442	0.00 000	7.52 443	30
40	7.53 067	0.00 000	7.53 067	20
50	7.53 683	0.00 000	7.53 683	10
12 0	7.54 291	0.00 000	7.54 291	0 48
10	7.54 890	0.00 000	7.54 890	50
20	7.55 481	0.00 000	7.55 481	40
30	7.56 064	0.00 000	7.56 064	30
40	7.56 639	0.00 000	7.56 639	20
50	7.57 206	0.00 000	7.57 207	10
13 0	7.57 767	0.00 000	7.57 767	0 47
10	7.58 320	0.00 000	7.58 320	50
20	7.58 866	0.00 000	7.58 867	40
30	7.59 406	0.00 000	7.59 406	30
40	7.59 939	0.00 000	7.59 939	20
50	7.60 465	0.00 000	7.60 466	10
14 0	7.60 985	0.00 000	7.60 986	0 46
10	7.61 499	0.00 000	7.61 500	50
20	7.62 007	0.00 000	7.62 008	40
30	7.62 509	0.00 000	7.62 510	30
40	7.63 006	0.00 000	7.63 006	20
50	7.63 496	0.00 000	7.63 497	10
15 0	7.62 982	0.00 000	7.63 982	0 45
10	7.64 461	0.00 000	7.64 462	50
20	7.64 936	0.00 000	7.64 937	40
30	7.65 406	0.00 000	7.65 406	30
40	7.65 870	0.00 000	7.65 871	20
50	7.66 330	0.00 000	7.66 330	10
16 0	7.66 784	0.00 000	7.66 785	0 44
10	7.67 235	0.00 000	7.67 235	50
20	7.67 680	0.00 000	7.67 680	40
30	7.68 121	0.00 000	7.68 121	30
40	7.68 557	9.99 999	7.68 558	20
50	7.68 989	9.99 999	7.68 990	10
17 0	7.69 417	9.99 999	7.69 418	0 43
10	7.69 841	9.99 999	7.69 842	50
20	7.70 261	9.99 999	7.70 261	40
30	7.70 676	9.99 999	7.70 677	30
40	7.71 088	9.99 999	7.71 088	20
50	7.71 496	9.99 999	7.71 496	10
18 0	7.71 900	9.99 999	7.71 900	0 42
10	7.72 300	9.99 999	7.72 301	50
20	7.72 697	9.99 999	7.72 697	40
30	7.73 090	9.99 999	7.73 090	30
40	7.73 479	9.99 999	7.73 480	20
50	7.73 865	9.99 999	7.73 866	10
19 0	7.74 248	9.99 999	7.74 248	0 41
10	7.74 627	9.99 999	7.74 628	50
20	7.75 003	9.99 999	7.75 004	40
30	7.75 376	9.99 999	7.75 377	30
40	7.75 745	9.99 999	7.75 746	20
50	7.76 112	9.99 999	7.76 113	10
20 0	7.76 475	9.99 999	7.76 476	0 40
′ ″	L Cos	L Sin	L Cot	″ ′

89°40′—89°57′

由此頁檢得之對數，除 0.00000 外，應各附記 −10 於其後

′ ″	L Sin	L Cos	L Tan	″ ′	′ ″	L Sin	L Cos	L Tan	″ ′
20 0	7.76 475	9.99 999	7.76 476	0 40	30 0	7.94 084	9.99 998	7.94 086	0 30
10	7.76 836	9.99 999	7.76 837	50	10	7.94 325	9.99 998	7.94 326	50
20	7.77 193	9.99 999	7.77 194	40	20	7.94 564	9.99 998	7.94 566	40
30	7.77 548	9.99 999	7.77 549	30	30	7.94 802	9.99 998	7.94 804	30
40	7.77 899	9.99 999	7.77 900	20	40	7.95 039	9.99 998	7.95 040	20
50	7.78 248	9.99 999	7.78 249	10	50	7.95 274	9.99 998	7.95 276	10
21 0	7.78 594	9.99 999	7.78 595	0 39	31 0	7.95 508	9.99 998	7.95 510	0 29
10	7.78 938	9.99 999	7.78 938	50	10	7.95 741	9.99 998	7.95 743	50
20	7.79 278	9.99 999	7.79 279	40	20	7.95 973	9.99 998	7.95 974	40
30	7.79 616	9.99 999	7.79 617	30	30	7.96 203	9.99 998	7.96 205	30
40	7.79 952	9.99 999	7.79 952	20	40	7.96 432	9.99 998	7.96 434	20
50	7.80 284	9.99 999	7.80 285	10	50	7.96 660	9.99 998	7.96 662	10
22 0	7.80 615	9.99 999	7.80 615	0 38	32 0	7.96 887	9.99 998	7.96 889	0 28
10	7.80 942	9.99 999	7.80 943	50	10	7.97 113	9.99 998	7.97 114	50
20	7.81 268	9.99 999	7.81 269	40	20	7.97 337	9.99 998	7.97 339	40
30	7.81 591	9.99 999	7.81 591	30	30	7.97 560	9.99 998	7.97 562	30
40	7.81 911	9.99 999	7.81 912	20	40	7.97 782	9.99 998	7.97 784	20
50	7.82 229	9.99 999	7.82 230	10	50	7.98 003	9.99 998	7.98 005	10
23 0	7.82 545	9.99 999	7.82 546	0 37	33 0	7.98 223	9.99 998	7.98 225	0 27
10	7.82 859	9.99 999	7.82 860	50	10	7.98 442	9.99 998	7.98 444	50
20	7.83 170	9.99 999	7.83 171	40	20	7.98 660	9.99 998	7.98 662	40
30	7.83 479	9.99 999	7.83 480	30	30	7.98 876	9.99 998	7.98 878	30
40	7.83 786	9.99 999	7.83 787	20	40	7.99 092	9.99 998	7.99 094	20
50	7.84 091	9.99 999	7.84 092	10	50	7.99 306	9.99 998	7.99 308	10
24 0	7.84 393	9.99 999	7.84 394	0 36	34 0	7.99 520	9.99 998	7.99 522	0 26
10	7.84 694	9.99 999	7.84 695	50	10	7.99 732	9.99 998	7.99 734	50
20	7.84 992	9.99 999	7.84 994	40	20	7.99 943	9.99 998	7.99 946	40
30	7.85 289	9.99 999	7.85 290	30	30	8.00 154	9.99 998	8.00 156	30
40	7.85 583	9.99 999	7.85 584	20	40	8.00 363	9.99 998	8.00 365	20
50	7.85 876	9.99 999	7.85 877	10	50	8.00 571	9.99 998	8.00 574	10
25 0	7.86 166	9.99 999	7.86 167	0 35	35 0	8.00 779	9.99 998	8.00 781	0 25
10	7.86 455	9.99 999	7.86 456	50	10	8.00 985	9.99 998	8.00 987	50
20	7.86 741	9.99 999	7.86 743	40	20	8.01 190	9.99 998	8.01 193	40
30	7.87 026	9.99 999	7.87 027	30	30	8.01 395	9.99 998	8.01 397	30
40	7.87 309	9.99 999	7.87 310	20	40	8.01 598	9.99 998	8.01 600	20
50	7.87 590	9.99 999	7.87 591	10	50	8.01 801	9.99 998	8.01 803	10
26 0	7.87 870	9.99 999	7.87 871	0 34	36 0	8.02 002	9.99 998	8.02 004	0 24
10	7.88 147	9.99 999	7.88 148	50	10	8.02 203	9.99 998	8.02 205	50
20	7.88 423	9.99 999	7.88 424	40	20	8.02 402	9.99 998	8.02 405	40
30	7.88 697	9.99 999	7.88 698	30	30	8.02 601	9.99 998	8.02 604	30
40	7.88 969	9.99 999	7.88 970	20	40	8.02 799	9.99 998	8.02 801	20
50	7.89 240	9.99 999	7.89 241	10	50	8.02 996	9.99 998	8.02 998	10
27 0	7.89 509	9.99 999	7.89 510	0 33	37 0	8.03 192	9.99 997	8.03 194	0 23
10	7.89 776	9.99 999	7.89 777	50	10	8.03 387	9.99 997	8.03 390	50
20	7.90 041	9.99 999	7.90 043	40	20	8.03 581	9.99 997	8.03 584	40
30	7.90 305	9.99 999	7.90 307	30	30	8.03 775	9.99 997	8.03 777	30
40	7.90 568	9.99 999	7.90 569	20	40	8.03 967	9.99 997	8.03 970	20
50	7.90 829	9.99 999	7.90 830	10	50	8.04 159	9.99 997	8.04 162	10
28 0	7.91 088	9.99 999	7.91 089	0 32	38 0	8.04 350	9.99 997	8.04 353	0 22
10	7.91 346	9.99 999	7.91 347	50	10	8.04 540	9.99 997	8.04 543	50
20	7.91 602	9.99 999	7.91 603	40	20	8.04 729	9.99 997	8.04 732	40
30	7.91 857	9.99 999	7.91 858	30	30	8.04 918	9.99 997	8.04 921	30
40	7.92 110	9.99 998	7.92 111	20	40	8.05 105	9.99 997	8.05 108	20
50	7.92 362	9.99 998	7.92 363	10	50	8.05 292	9.99 997	8.05 295	10
29 0	7.92 612	9.99 998	7.92 613	0 31	39 0	8.05 478	9.99 997	8.05 481	0 21
10	7.92 861	9.99 998	7.92 862	50	10	8.05 663	9.99 997	8.05 666	50
20	7.93 108	9.99 998	7.93 110	40	20	8.05 848	9.99 997	8.05 851	40
30	7.93 354	9.99 998	7.93 356	30	30	8.06 031	9.99 997	8.06 034	30
40	7.93 599	9.99 998	7.93 601	20	40	8.06 214	9.99 997	8.06 217	20
50	7.93 842	9.99 998	7.93 844	10	50	8.06 396	9.99 997	8.06 399	10
30 0	7.94 084	9.99 998	7.94 086	0 30	40 0	8.06 578	9.99 997	8.06 581	0 20
′ ″	L Cos	L Sin	L Cot	″ ′	′ ″	L Cos	L Sin	L Cot	″ ′

此頁檢得之對數，應各附記－10 於其後

′	″	L Sin	L Cos	L Tan	″	′	′	″	L Sin	L Cos	L Tan	″	′
40	0	8.06 578	9.99 997	8.06 581	0	20	50	0	8.16 268	9.99 995	8.16 273	0	10
	10	8.06 758	9.99 997	8.06 761	50			10	8.16 413	9.99 995	8.16 417	50	
	20	8.06 938	9.99 997	8.06 941	40			20	8.16 557	9.99 995	8.16 561	40	
	30	8.07 117	9.99 997	8.07 120	30			30	8.16 700	9.99 995	8.16 705	30	
	40	8.07 295	9.99 997	8.07 299	20			40	8.16 843	9.99 995	8.16 848	20	
	50	8.07 473	9.99 997	8.07 476	10			50	8.16 986	9.99 995	8.16 991	10	
41	0	8.07 650	9.99 997	8.07 653	0	19	51	0	8.17 128	9.99 995	8.17 133	0	9
	10	8.07 826	9.99 997	8.07 829	50			10	8.17 270	9.99 995	8.17 275	50	
	20	8.08 002	9.99 997	8.08 005	40			20	8.17 411	9.99 995	8.17 416	40	
	30	8.08 176	9.99 997	8.08 180	30			30	8.17 552	9.99 995	8.17 557	30	
	40	8.08 350	9.99 997	8.08 354	20			40	8.17 692	9.99 995	8.17 697	20	
	50	8 08 524	9 99 997	8.08 527	10			50	8.17 832	9.99 995	8.17 837	10	
42	0	8 08 696	9.99 997	8.08 700	0	18	52	0	8.17 971	9.99 995	8.17 976	0	8
	10	8 08 868	9.99 997	8.08 872	50			10	8.18 110	9.99 995	8.18 115	50	
	20	8 09 040	9.99 997	8.09 043	40			20	8.18 249	9.99 995	8.18 254	40	
	30	8.09 210	9.99 997	8.09 214	30			30	8.18 387	9.99 995	8.18 392	30	
	40	8.09 380	9.99 997	8.09 384	20			40	8.18 524	9.99 995	8.18 530	20	
	50	8.09 550	9.99 997	8.09 553	10			50	8.18 662	9.99 995	8.18 667	10	
43	0	8 09 718	9.99 997	8.09 722	0	17	53	0	8.18 798	9.99 995	8.18 804	0	7
	10	8.09 886	9.99 997	8.09 890	50			10	8.18 935	9.99 995	8.18 940	50	
	20	8.10 054	9.99 997	8.10 057	40			20	8.19 071	9.99 995	8.19 076	40	
	30	8.10 220	9.99 997	8.10 224	30			30	8.19 206	9.99 995	8.19 212	30	
	40	8.10 386	9.99 997	8.10 390	20			40	8.19 341	9.99 995	8.19 347	20	
	50	8.10 552	9.99 996	8.10 555	10			50	8.19 476	9.99 995	8.19 481	10	
44	0	8.10 717	9.99 996	8.10 720	0	16	54	0	8.19 610	9.99 995	8.19 616	0	6
	10	8.10 881	9.99 996	8.10 884	50			10	8.19 744	9.99 995	8.19 749	50	
	20	8.11 044	9.99 996	8.11 048	40			20	8.19 877	9.99 995	8.19 883	40	
	30	8 11 207	9.99 996	8.11 211	30			30	8.20 010	9.99 995	8.20 016	30	
	40	8.11 370	9.99 996	8.11 373	20			40	8 20 143	9.99 995	8.20 149	20	
	50	8 11 531	9.99 996	8.11 535	10			50	8 20 275	9.99 994	8.20 281	10	
45	0	8.11 693	9.99 996	8.11 696	0	15	55	0	8.20 407	9.99 994	8.20 413	0	5
	10	8.11 853	9.99 996	8.11 857	50			10	8 20 538	9.99 994	8.20 544	50	
	20	8.12 013	9.99 996	8.12 017	40			20	8.20 669	9.99 994	8.20 675	40	
	30	8.12 172	9.99 996	8.12 176	30			30	8.20 800	9.99 994	8.20 806	30	
	40	8.12 331	9.99 996	8.12 335	20			40	8.20 930	9.99 994	8.20 936	20	
	50	8.12 489	9.99 996	8.12 493	10			50	8.21 060	9.99 994	8.21 066	10	
46	0	8.12 647	9.99 996	8.12 651	0	14	56	0	8.21 189	9.99 994	8.21 195	0	4
	10	8.12 804	9.99 996	8.12 808	50			10	8.21 319	9.99 994	8.21 324	50	
	20	8.12 961	9.99 996	8.12 965	40			20	8.21 447	9.99 994	8.21 453	40	
	30	8.13 117	9.99 996	8.13 121	30			30	8.21 576	9.99 994	8.21 581	30	
	40	8.13 272	9.99 996	8.13 276	20			40	8.21 703	9.99 994	8.21 709	20	
	50	8.13 427	9.99 996	8.13 431	10			50	8.21 831	9.99 994	8.21 837	10	
47	0	8.13 581	9.99 996	8.13 585	0	13	57	0	8.21 958	9.99 994	8.21 964	0	3
	10	8.13 735	9.99 996	8.13 739	50			10	8.22 085	9.99 994	8.22 091	50	
	20	8.13 888	9.99 996	8.13 892	40			20	8.22 211	9.99 994	8.22 217	40	
	30	8.14 041	9.99 996	8.14 045	30			30	8.22 337	9.99 994	8.22 343	30	
	40	8.14 193	9.99 996	8.14 197	20			40	8.22 463	9.99 994	8.22 469	20	
	50	8.14 344	9.99 996	8.14 348	10			50	8.22 588	9.99 994	8.22 595	10	
48	0	8.14 495	9.99 996	8.14 500	0	12	58	0	8.22 713	9.99 994	8.22 720	0	2
	10	8.14 646	9.99 996	8.14 650	50			10	8.22 838	9.99 994	8.22 844	50	
	20	8.14 796	9.99 996	8.14 800	40			20	8.22 962	9.99 994	8.22 968	40	
	30	8.14 945	9 99 996	8.14 950	30			30	8.23 086	9.99 994	8.23 092	30	
	40	8.15 094	9.99 996	8.15 099	20			40	8.23 210	9.99 994	8.23 216	20	
	50	8.15 243	9.99 996	8.15 247	10			50	8.23 333	9.99 994	8.23 339	10	
49	0	8.15 391	9.99 996	8.15 395	0	11	59	0	8.23 456	9.99 994	8.23 462	0	1
	10	8.15 538	9.99 996	8.15 543	50			10	8.23 578	9.99 994	8.23 585	50	
	20	8.15 685	9.99 996	8.15 690	40			20	8.23 700	9.99 994	8.23 707	40	
	30	8.15 832	9.99 996	8.15 836	30			30	8.23 822	9.99 993	8.23 829	30	
	40	8.15 978	9.99 995	8.15 982	20			40	8.23 944	9.99 993	8.23 950	20	
	50	8.16 123	9.99 995	8.16 128	10			50	8.24 065	9.99 993	8:24 071	10	
50	0	8.16 268	9.99 995	8.16 273	0	10	60	0	8.24 186	9.99 993	8.24 192	0	0
′	″	L Cos	L Sin	L Cot	″	′	′	″	L Cos	L Sin	L Cot	″	′

此頁檢得之對數，應各附記—10 於其後

′ ″	L Sin	L Cos	L Tan	″ ′	′ ″	L Sin	L Cos	L Tan	″ ′
0 0	8.24 186	9.99 993	8.24 192	0 60	10 0	8.30 879	9.99 991	8.30 888	0 50
10	8.24 306	9.99 993	8.24 313	50	10	8.30 983	9.99 991	8.30 992	50
20	8.24 426	9.99 993	8.24 433	40	20	8.31 086	9.99 991	8.31 095	40
30	8.24 546	9.99 993	8.24 553	30	30	8.31 188	9.99 991	8.31 198	30
40	8.24 665	9 99 993	8.24 672	20	40	8.31 291	9.99 991	8.31 300	20
50	8 24 785	9.99 993	8.24 791	10	50	8.31 393	9.99 991	8.31 403	10
1 0	8.24 903	9 99 993	8.24 910	0 59	11 0	8.31 495	9.99 991	8.31 505	0 49
10	8.25 022	9 99 993	8.25 029	50	10	8.31 597	9.99 991	8.31 606	50
20	8.25 140	9 99 993	8 25 147	40	20	8.31 699	9.99 991	8.31 708	40
30	8.25 258	9 99 993	8.25 265	30	30	8.31 800	9.99 991	8.31 809	30
40	8.25 375	9 99 993	8.25 382	20	40	8.31 901	9 99 991	8 31 911	20
50	8 25 493	9 99 993	8.25 500	10	50	8 32 002	9 99 991	8 32 012	10
2 0	8.25 609	9 99 993	8.25 616	0 58	12 0	8.32 103	9 99 990	8 32 112	0 48
10	8 25 726	9.99 993	8.25 733	50	10	8 32 203	9 99 990	8 32 213	50
20	8.25 842	9.99 993	8.25 849	40	20	8.32 303	9 99 990	8 32 313	40
30	8.25 958	9.99 993	8.25 965	30	30	8.32 403	9 99 990	8 32 413	30
40	8.26 074	9.99 993	8.26 081	20	40	8 32 503	9 99 990	8.32 513	20
50	8.26 189	8.99 993	8.26 196	10	50	8.32 602	9 99 990	8 32 612	10
3 0	8.26 304	9.99 993	8.26 312	0 57	13 0	8 32 702	9.99 990	8 32 711	0 47
10	8.26 419	9.99 993	8.26 426	50	10	8.32 801	9.99 990	8.32 811	50
20	8.26 533	9 99 993	8.26 541	40	20	8.32 899	9.99 990	8.32 909	40
30	8.26 648	9.99 993	8.26 655	30	30	8 32 998	9.99 990	8.33 008	30
40	8.26 761	9.99 993	8.26 769	20	40	8.33 096	9 99 990	8.33 106	20
50	8.26 875	9.99 993	8 26 882	10	50	8.33 195	9 99 990	8.33 205	10
4 0	8.26 988	9.99 992	8.26 996	0 56	14 0	8.33 292	9.99 990	8.33 302	0 46
10	8.27 101	9.99 992	8.27 109	50	10	8.33 390	9.99 990	8.33 400	50
20	8.27 214	9.99 992	8.27 221	40	20	8.33 488	9.99 990	8.33 498	40
30	8.27 326	9.99 992	8.27 334	30	30	8.33 585	9.99 990	8.33 595	30
40	8.27 438	9.99 992	8.27 446	20	40	8.33 682	9.99 990	8.33 692	20
50	8.27 550	9.99 992	8.27 558	10	50	8.33 779	9.99 990	8.33 789	10
5 0	8.27 661	9.99 992	8.27 669	0 55	15 0	8.33 875	9.99 990	8.33 886	0 45
10	8.27 773	9.99 992	8.27 780	50	10	8.33 972	9.99 990	8.33 982	50
20	8.27 883	9.99 992	8.27 891	40	20	8 34 068	9.99 990	8.34 078	40
30	8.27 994	9.99 992	8.28 002	30	30	8.34 164	9.99 990	8.34 174	30
40	8.28 104	9.99 992	8.28 112	20	40	8 34 260	9 99 989	8.34 270	20
50	8.28 215	9.99 992	8.28 223	10	50	8.34 355	9.99 989	8.34 366	10
6 0	8.28 324	9.99 992	8.28 332	0 54	16 0	8.34 450	9 99 989	8.34 461	0 44
10	8.28 434	9.99 992	8.28 442	50	10	8.34 546	9.99 989	8.34 556	50
20	8.28 543	9.99 992	8.28 551	40	20	8.34 640	9.99 989	8.34 651	40
30	8.28 652	9.99 992	8.28 660	30	30	8.34 735	9.99 989	8.34 746	30
40	8.28 761	9.99 992	8.28 769	20	40	8.34 830	9 99 989	8.34 840	20
50	8.28 869	9.99 992	8.28 877	10	50	8.34 924	9.99 989	8.34 935	10
7 0	8.28 977	9.99 992	8.28 986	0 53	17 0	8.35 018	9.99 989	8.35 029	0 43
10	8.29 085	9.99 992	8.29 094	50	10	8.35 112	9.99 989	8.35 123	50
20	8.29 193	9.99 992	8.29 201	40	20	8.35 206	9.99 989	8.35 217	40
30	8.29 300	9.99 992	8.29 309	30	30	8.35 299	9.99 989	8.35 310	30
40	8.29 407	9.99 992	8.29 416	20	40	8.35 392	9.99 989	8.35 403	20
50	8.29 514	9.99 992	8.29 523	10	50	8.35 485	9.99 989	8.35 497	10
8 0	8 29 621	9.99 992	8 29 629	0 52	18 0	8.35 578	9.99 989	8.35 590	0 42
10	8.29 727	9.99 991	8.29 736	50	10	8.35 671	9.99 989	8.35 682	50
20	8.29 833	9 99 991	8.29 842	40	20	8.35 764	9.99 989	8.35 775	40
30	8.29 939	9.99 991	8.29 947	30	30	8.35 856	9.99 989	8.35 867	30
40	8.30 044	9.99 991	8.30 053	20	40	8.35 948	9.99 989	8.35 959	20
50	8.30 150	9.99 991	8.30 158	10	50	8.36 040	9.99 989	8.36 051	10
9 0	8.30 255	9.99 991	8.30 263	0 51	19 0	8.36 131	9.99 989	8.36 143	0 41
10	8.30 359	9.99 991	8.30 368	50	10	8.36 223	9.99 988	8.36 235	50
20	8.30 464	9.99 991	8.30 473	40	20	8.36 314	9.99 988	8.36 326	40
30	8.30 568	9.99 991	8.30 577	30	30	8.36 405	9 99 988	8.36 417	30
40	8.30 672	9 99 991	8.30 681	20	40	8.36 496	9.99 988	8.36 508	20
50	8.30 776	9.99 991	8.30 785	10	50	8.36 587	9.99 988	8.36 599	10
10 0	8.30 879	9.99 991	8.30 888	0 50	20 0	8.36 678	9.99 988	8.36 689	0 40
′ ″	L Cos	L Sin	L Cot	″ ′	′ ″	L Cos	L Sin	L Cot	″ ′

此頁檢得之對數，應各附記 −10 於其後

′ ″	L Sin	L Cos	L Tan	″ ′	′ ″	L Sin	L Cos	L Tan	″ ′
20 0	8.36 678	9.99 988	8.36 689	0 40	30 0	8.41 792	9.99 985	8.41 807	0 30
10	8.36 768	9.99 988	8.36 780	50	10	8.41 872	9.99 985	8.41 887	50
20	8.36 858	9.99 988	8.36 870	40	20	8.41 952	9.99 985	8.41 967	40
30	8.36 948	9.99 988	8.36 960	30	30	8.42 032	9.99 985	8.42 048	30
40	8.37 038	9.99 988	8.37 050	20	40	8.42 112	9.99 985	8.42 127	20
50	8.37 128	9.99 988	8.37 140	10	50	8.42 192	9.99 985	8.42 207	10
21 0	8.37 217	9.99 988	8.37 229	0 39	31 0	8.42 272	9.99 985	8.42 287	0 29
10	8.37 306	9.99 988	8.37 318	50	10	8.42 351	9.99 985	8.42 366	50
20	8.37 395	9.99 988	8.37 408	40	20	8.42 430	9.99 985	8.42 446	40
30	8.37 484	9.99 988	8.37 497	30	30	8.42 510	9.99 985	8.42 525	30
40	8.37 573	9.99 988	8.37 585	20	40	8.42 589	9.99 985	8.42 606	20
50	8.37 662	9.99 988	8.37 674	10	50	8.42 667	9.99 985	8.42 683	10
22 0	8.37 750	9.99 988	8.37 762	0 38	32 0	8.42 746	9.99 984	8.42 762	0 28
10	8.37 838	9.99 988	8.37 850	50	10	8.42 825	9.99 984	8.42 840	50
20	8.37 926	9.99 988	8.37 938	40	20	8.42 903	9.99 984	8.42 919	40
30	8.38 014	9.99 987	8.38 026	30	30	8.42 982	9.99 984	8.42 997	30
40	8.38 101	9.99 987	8.38 114	20	40	8.43 060	9.99 984	8.43 075	20
50	8.38 189	9.99 987	8.38 202	10	50	8.43 138	9.99 984	8.43 154	10
23 0	8.38 276	9.99 987	8.38 289	0 37	33 0	8.43 216	9.99 984	8.43 232	0 27
10	8.38 363	9.99 987	8.38 376	50	10	8.43 293	9.99 984	8.43 309	50
20	8.38 450	9.99 987	8.38 463	40	20	8.43 371	9.99 984	8.43 387	40
30	8.38 537	9.99 987	8.38 550	30	30	8.43 448	9.99 984	8.43 464	30
40	8.38 624	9.99 987	8.38 636	20	40	8.43 526	9.99 984	8.43 542	20
50	8.38 710	9.99 987	8.38 723	10	50	8.43 603	9.99 984	8.43 619	10
24 0	8.38 796	9.99 987	8.38 809	0 36	34 0	8.43 680	9.99 984	8.43 696	0 26
10	8.38 882	9.99 987	8.38 895	50	10	8.43 757	9.99 984	8.43 773	50
20	8.38 968	9.99 987	8.38 981	40	20	8.43 834	9.99 984	8.43 850	40
30	8.39 054	9.99 987	8.39 067	30	30	8.43 910	9.99 984	8.43 927	30
40	8.39 139	9.99 987	8.39 153	20	40	8.43 987	9.99 984	8.44 003	20
50	8.39 225	9.99 987	8.39 238	10	50	8.44 063	9.99 983	8.44 080	10
25 0	8.39 310	9.99 987	8.39 323	0 35	35 0	8.44 139	9.99 983	8.44 156	0 25
10	8.39 395	9.99 987	8.39 408	50	10	8.44 216	9.99 983	8.44 232	50
20	8.39 480	9.99 987	8.39 493	40	20	8.44 292	9.99 983	8.44 308	40
30	8.39 565	9.99 987	8.39 587	30	30	8.44 367	9.99 983	8.44 384	30
40	8.39 649	9.99 987	8.39 663	20	40	8.44 443	9.99 983	8.44 460	20
50	8.39 734	9.99 986	8.39 747	10	50	8.44 519	9.99 983	8.44 536	10
26 0	8.39 818	9.99 986	8.39 832	0 34	36 0	8.44 594	9.99 983	8.44 611	0 24
10	8.39 902	9.99 986	8.39 916	50	10	8.44 669	9.99 983	8.44 686	50
20	8.39 986	9.99 986	8.40 000	40	20	8.44 745	9.99 983	8.44 762	40
30	8.40 070	9.99 986	8.40 083	30	30	8.44 820	9.99 983	8.44 837	30
40	8.40 153	9.99 986	8.40 167	20	40	8.44 895	9.99 983	8.44 912	20
50	8.40 237	9.99 986	8.40 251	10	50	8.44 969	9.99 983	8.44 987	10
27 0	8.40 320	9.99 986	8.40 334	0 33	37 0	8.45 044	9.99 983	8.45 061	0 23
10	8.40 403	9.99 986	8.40 417	50	10	8.45 119	9.99 983	8.45 136	50
20	8.40 486	9.99 986	8.40 500	40	20	8.45 193	9.99 983	8.45 210	40
30	8.40 569	9.99 986	8.40 583	30	30	8.45 267	9.99 983	8.45 285	30
40	8.40 651	9.99 986	8.40 665	20	40	8.45 341	9.99 982	8.45 359	20
50	8.40 734	9.99 986	8.40 748	10	50	8.45 415	9.99 982	8.45 433	10
28 0	8.40 816	9.99 986	8.40 830	0 32	38 0	8.45 489	9.99 982	8.45 507	0 22
10	8.40 898	9.99 986	8.40 913	50	10	8.45 563	9.99 982	8.45 581	50
20	8.40 980	9.99 986	8.40 995	40	20	8.45 637	9.99 982	8.45 655	40
30	8.41 062	9.99 986	8.41 077	30	30	8.45 710	9.99 982	8.45 728	30
40	8.41 144	9.99 986	8.41 158	20	40	8.45 784	9.99 982	8.45 802	20
50	8.41 225	9.99 986	8.41 240	10	50	8.45 857	9.99 982	8.45 875	10
29 0	8.41 307	9.99 985	8.41 321	0 31	39 0	8.45 930	9.99 982	8.45 948	0 21
10	8.41 388	9.99 985	8.41 403	50	10	8.46 003	9.99 982	8.46 021	50
20	8.41 469	9.99 985	8.41 484	40	20	8.46 076	9.99 982	8.46 094	40
30	8.41 550	9.99 985	8.41 565	30	30	8.46 149	9.99 982	8.46 167	30
40	8.41 631	9.99 985	8.41 646	20	40	8.46 222	9.99 982	8.46 240	20
50	8.41 711	9.99 985	8.41 726	10	50	8.46 294	9.99 982	8.46 312	10
30 0	8.41 792	9.99 985	8.41 807	0 30	40 0	8.46 366	9.99 982	8.46 385	0 20
′ ″	L Cos	L Sin	L Cot	″ ′	′ ″	L Cos	L Sin	L Cot	″ ′

88°20′—88°40′

此頁檢得之對數，應各附記−10於其後

′ ″	L Sin	L Cos	L Tan	″ ′	′ ″	L Sin	L Cos	L Tan	″ ′
40 0	8.46 366	9 99 982	8.46 385	0 20	50 0	8.50 504	9.99 978	8.50 527	0 10
10	8 46 439	9 99 982	8.46 457	50	10	8.50 570	9.99 978	8.50 593	50
20	8.46 511	9 99 982	8 46 529	40	20	8.50 636	9.99 978	8.50 658	40
30	8 46 583	9 99 981	8.46 602	30	30	8 50 701	9.99 978	8.50 724	30
40	8.46 655	9 99 981	8 46 674	20	40	8.50 767	9 99 977	8.50 789	20
50	8.46 727	9.99 981	8.46 745	10	50	8.50 832	9.99 977	8.50 855	10
41 0	8.46 799	9 99 981	8.46 817	0 19	51 0	8.50 897	9 99 977	8.50 920	0 9
10	8.46 870	9 99 981	8.46 889	50	10	8.50 963	9.99 977	8.50 985	50
20	8.46 942	9 99 981	8.46 960	40	20	8.51 028	9.99 977	8.51 050	40
30	8 47 013	9 99 981	8 47 032	30	30	8.51 092	9.99 977	8.51 015	30
40	8.47 084	9 99 981	8.47 103	20	40	8.51 157	9.99 977	8.51 180	20
50	8.47 155	9 99 981	8.47 174	10	50	8 51 222	9.99 977	8 51 245	10
42 0	8.47 226	9 99 981	8 47 245	0 18	52 0	8.51 287	9.99 977	8 51 310	0 8
10	8.47 297	9 99 981	8.47 316	50	10	8.51 351	9.99 977	8.51 374	50
20	8.47 368	9 99 981	8.47 387	40	20	8.51 416	9.99 977	8.51 439	40
30	8.47 439	9 99 981	8.47 458	30	30	8.51 480	9.99 977	8.51 503	30
40	8.47 509	9 99 981	8.47 528	20	40	8.51 544	9.99 977	8.51 568	20
50	8.47 580	9.99 981	8.47 599	10	50	8.51 609	9.99 977	8.51 632	10
43 0	8.47 650	9.99 981	8.47 669	0 17	53 0	8 51 673	9.99 977	8.51 696	0 7
10	8 47 720	9 99 980	8.47 740	50	10	8.51 737	9.99 976	8.51 760	50
20	8.47 790	9 99 980	8.47 810	40	20	8.51 801	9.99 976	8.51 824	40
30	8.47 860	9.99 980	8.47 880	30	30	8.51 864	9.99 976	8.51 888	30
40	8.47 930	9.99 980	8.47 950	20	40	8.51 928	9.99 976	8.51 952	20
50	8.48 000	9.99 980	8.48 020	10	50	8.51 992	9.99 976	8.52 015	10
44 0	8.48 096	9.99 980	8.48 090	0 16	54 0	8.52 055	9.99 976	8.52 079	0 6
10	8.48 139	9.99 980	8.48 159	50	10	8.52 119	9.99 976	8.52 143	50
20	8.48 208	9.99 980	8.48 228	40	20	8.52 182	9.99 976	8.52 206	40
30	8.48 278	9.99 980	8.48 298	30	30	8.52 245	9.99 976	8.52 269	30
40	8.48 347	9.99 980	8.48 367	20	40	8.52 308	9.99 976	8.52 332	20
50	8.48 416	9.99 980	8.48 436	10	50	8.52 371	9.99 976	8.52 396	10
45 0	8.48 485	9.99 980	8.48 505	0 15	55 0	8.52 434	9.99 976	8.52 459	0 5
10	8.48 554	9.99 980	8.48 574	50	10	8.52 497	9.99 976	8.52 522	50
20	8.48 622	9.99 980	8.48 643	40	20	8.52 560	9.99 976	8.52 584	40
30	8.48 691	9.99 980	8.48 711	30	30	8.52 623	9.99 975	8.52 647	30
40	8.48 760	9.99 979	8.48 780	20	40	8.52 685	9.99 975	8.52 710	20
50	8.48 828	9.99 979	8.48 849	10	50	8.52 748	9.99 975	8.52 772	10
46 0	8.48 896	9.99 979	8.48 917	0 14	56 0	8.52 810	9.99 975	8.52 835	0 4
10	8.48 965	9.99 979	8.48 985	50	10	8.52 872	9.99 975	8.52 897	50
20	8.49 033	9.99 979	8.49 053	40	20	8.52 935	9.99 975	8.52 960	40
30	8.49 101	9.99 979	8.49 121	30	30	8.52 997	9.99 975	8.53 022	30
40	8.49 169	9.99 979	8.49 189	20	40	8.53 059	9.99 975	8.53 084	20
50	8.49 236	9.99 979	8.49 257	10	50	8.53 121	9.99 975	8.53 146	10
47 0	8.49 304	9.99 979	8.49 325	0 13	57 0	8.53 183	9.99 975	8.53 208	0 3
10	8.49 372	9.99 979	8.49 393	50	10	8.53 245	9.99 975	8.53 270	50
20	8.49 439	9.99 979	8.49 460	40	20	8.53 306	9.99 975	8.53 332	40
30	8.49 506	9.99 979	8.49 528	30	30	8.53 368	9.99 975	8.53 393	30
40	8.49 574	9.99 979	8.49 595	20	40	8.53 429	9.99 975	8.53 455	20
50	8.49 641	9.99 979	8.49 662	10	50	8.53 491	9.99 974	8.53 516	10
48 0	8.49 708	9.99 979	8.49 729	0 12	58 0	8.53 552	9.99 974	8.53 578	0 2
10	8.49 775	9.99 979	8.49 796	50	10	8.53 614	9.99 974	8.53 639	50
20	8.49 842	9.99 978	8.49 863	40	20	8.53 675	9.99 974	8.53 700	40
30	8.49 908	9.99 978	8.49 930	30	30	8.53 736	9.99 974	8.53 762	30
40	8.49 975	9.99 978	8.49 997	20	40	8.53 797	9.99 974	8.53 823	20
50	8.50 042	9.99 978	8.50 063	10	50	8.53 858	9.99 974	8.53 884	10
49 0	8.50 108	9.99 978	8.50 130	0 11	59 0	8.53 919	9.99 974	8.53 945	0 1
10	8.50 174	9.99 978	8.50 196	50	10	8.53 979	9.99 974	8.54 005	50
20	8.50 241	9.99 978	8.50 263	40	20	8.54 040	9.99 974	8.54 066	40
30	8.50 307	9.99 978	8.50 329	30	30	8.54 101	9.99 974	8.54 127	30
40	8.50 373	9.99 978	8.50 395	20	40	8.54 161	9.99 974	8.54 187	20
50	8.50 439	9.99 978	8.50 461	10	50	8.54 222	9.99 974	8.54 248	10
50 0	8.50 504	9.99 978	8.50 527	0 10	60 0	8.54 282	9.99 974	8.54 308	0 0
′ ″	L Cos	L Sin	L Cot	″ ′	′ ″	L Cos	L Sin	L Cot	″ ′

此頁檢得之對數，應各附記−10於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos		PP
0	8.54 282		8.54 308		1.45 692	9.99 974	60	
1	8.54 642	360	8.54 669	361	1.45 331	9.99 973	59	
2	8.54 999	357	8.55 027	358	1.44 973	9.99 973	58	
3	8.55 354	355	8.55 382	355	1.44 618	9.99 972	57	360 350 340
4	8.55 705	351	8.55 734	352	1.44 266	9.99 972	56	1 36 35 34
		349		349				2 72 70 68
5	8.56 054		8.56 083		1.43 917	9.99 971	55	3 108 105 102
6	8.56 400	346	8.56 429	346	1.43 571	9.99 971	54	4 144 140 136
7	8.56 743	343	8.56 773	344	1.43 227	9.99 970	53	5 180 175 170
8	8.57 084	341	8.57 114	341	1.42 886	9.99 970	52	6 216 210 204
9	8.57 421	337	8.57 452	338	1.42 548	9.99 969	51	7 252 245 238
		336		336				8 288 280 272
10	8.57 757		8.57 788		1.42 212	9.99 969	50	9 324 315 306
11	8.58 089	332	8.58 121	333	1.41 879	9.99 968	49	
12	8.58 419	330	8.58 451	330	1.41 549	9.99 968	48	
13	8.58 747	328	8.58 779	328	1.41 221	9.99 967	47	330 320 310
14	8.59 072	325	8.59 105	326	1.40 895	9.99 967	46	1 33 32 31
		323		323				2 66 64 62
15	8.59 395		8.59 428		1.40 572	9.99 967	45	3 99 96 93
16	8.59 715	320	8.59 749	321	1.40 251	9.99 966	44	4 132 128 124
17	8.60 033	318	8.60 068	319	1.39 932	9.99 966	43	5 165 160 155
18	8.60 349	316	8.60 384	316	1.39 616	9.99 965	42	6 198 192 186
19	8.60 662	313	8.60 698	314	1.39 302	9.99 964	41	7 231 224 217
		311		311				8 264 256 248
20	8.60 973		8.61 009		1.38 991	9.99 964	40	9 297 288 279
21	8.61 282	309	8.61 319	310	1.38 681	9.99 963	39	
22	8.61 589	307	8.61 626	307	1.38 374	9.99 963	38	
23	8.61 894	305	8.61 931	305	1.38 069	9.99 962	37	300 290 285
24	8.62 196	302	8.62 234	303	1.37 766	9.99 962	36	1 30 29 28.5
		301		301				2 60 58 57.0
25	8.62 497		8.62 535		1.37 465	9.99 961	35	3 90 87 85.5
26	8.62 795	298	8.62 834	299	1.37 166	9.99 961	34	4 120 116 114.0
27	8.63 091	296	8.63 131	297	1.36 869	9.99 960	33	5 150 145 142.5
28	8.63 385	294	8.63 426	295	1.36 574	9.99 960	32	6 180 174 171.0
29	8.63 678	293	8.63 718	292	1.36 282	9.99 959	31	7 210 203 199.5
		290		291				8 240 232 228.0
30	8.63 968		8.64 009		1.35 991	9.99 959	30	9 270 261 256.5
31	8.64 256	288	8.64 298	289	1.35 702	9.99 958	29	
32	8.64 543	287	8.64 585	287	1.35 415	9.99 958	28	280 275 270
33	8.64 827	284	8.64 870	285	1.35 130	9.99 957	27	1 28.0 27.5 27.0
34	8.65 110	283	8.65 154	284	1.34 846	9.99 956	26	2 56.0 55.0 54.0
		281		281				3 84.0 82.5 81.0
35	8.65 391		8.65 435		1.34 565	9.99 956	25	4 112.0 110.0 108.0
36	8.65 670	279	8.65 715	280	1.34 285	9.99 955	24	5 140.0 137.5 135.0
37	8.65 947	277	8.65 993	278	1.34 007	9.99 955	23	6 168.0 165.0 162.0
38	8.66 223	276	8.66 269	276	1.33 731	9.99 954	22	7 196.0 192.5 189.0
39	8.66 497	274	8.66 543	274	1.33 457	9.99 954	21	8 224.0 220.0 216.0
		272		273				9 252.0 247.5 243.0
40	8.66 769		8.66 816		1.33 184	9.99 953	20	
41	8.67 039	270	8.67 087	271	1.32 913	9.99 952	19	
42	8.67 308	269	8.67 356	269	1.32 644	9.99 952	18	265 260 255
43	8.67 575	267	8.67 624	268	1.32 376	9.99 951	17	1 26.5 26.0 25.5
44	8.67 841	266	8.67 890	266	1.32 110	9.99 951	16	2 53.0 52.0 51.0
		263		264				3 79.5 78.0 76.5
45	8.68 104		8.68 154		1.31 846	9.99 950	15	4 106.0 104.0 102.0
46	8.68 367	263	8.68 417	263	1.31 583	9.99 949	14	5 132.5 130.0 127.5
47	8.68 627	260	8.68 678	261	1.31 322	9.99 949	13	6 159.0 156.0 153.0
48	8.68 886	259	8.68 938	260	1.31 062	9.99 948	12	7 185.5 182.0 178.5
49	8.69 144	258	8.69 196	258	1.30 804	9.99 948	11	8 212.0 208.0 204.0
		256		257				9 238.5 234.0 229.5
50	8.69 400		8.69 453		1.30 547	9.99 947	10	
51	8.69 654	254	8.69 708	255	1.30 292	9.99 946	9	
52	8.69 907	253	8.69 962	254	1.30 038	9.99 946	8	250 245 240
53	8.70 159	252	8.70 214	252	1.29 786	9.99 945	7	1 25.0 24.5 24.0
54	8.70 409	250	8.70 465	251	1.29 535	9.99 944	6	2 50.0 49.0 48.0
		249		249				3 75.0 73.5 72.0
55	8.70 658		8.70 714		1.29 286	9.99 944	5	4 100.0 98.0 96.0
56	8.70 905	247	8.70 962	248	1.29 038	9.99 943	4	5 125.0 122.5 120.0
57	8.71 151	246	8.71 208	246	1.28 792	9.99 942	3	6 150.0 147.0 144.0
58	8.71 395	244	8.71 453	245	1.28 547	9.99 942	2	7 175.0 171.5 168.0
59	8.71 638	243	8.71 697	244	1.28 303	9.99 941	1	8 200.0 196.0 192.0
		242		243				9 225.0 220.5 216.0
60	8.71 880		8.71 940		1.28 060	9.99 940	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	′	PP

87°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos		PP
0	8.71 880		8.71 940		1.28 060	9.99 940	**60**	
1	8.72 120	240	8.72 181	241	1.27 819	9.99 940	59	**241 239 237 236 234**
2	8.72 359	239	8.72 420	239	1.27 580	9.99 939	58	1 24.1 23.9 23.7 23.6 23.4
3	8.72 597	238	8.72 659	239	1.27 341	9.99 938	57	2 48.2 47.8 47.4 47.2 46.8
4	8.72 834	237	8.72 896	237	1.27 104	9.99 938	56	3 72.3 71.7 71.1 70.8 70.2
		235		236				4 96.4 95.6 94.8 94.4 93.6
5	8.73 069		8.73 132		1.26 868	9.99 937	**55**	5 120.5 119.5 118.5 118.0 117.0
6	8.73 303	234	8.73 366	234	1.26 634	9.99 936	54	6 144.6 143.4 142.2 141.6 140.4
7	8.73 535	232	8.73 600	234	1.26 400	9.99 936	53	7 168.7 167.3 165.9 165.2 163.8
8	8.73 767	232	8.73 832	232	1.26 168	9.99 935	52	8 192.8 191.2 189.6 188.8 187.2
9	8.73 997	230	8.74 063	231	1.25 937	9.99 934	51	9 216.9 215.1 213.3 212.4 210.6
		229		229				
10	8.74 226		8.74 292		1.25 708	9.99 934	**50**	**232 231 229 227 226**
11	8.74 454	228	8.74 521	229	1.25 479	9.99 933	49	1 23.2 23.1 22.9 22.7 22.6
12	8.74 680	226	8.74 748	227	1.25 252	9.99 932	48	2 46.4 46.2 45.8 45.4 45.2
13	8.74 906	226	8.74 974	226	1.25 026	9.99 932	47	3 69.6 69.3 68.7 68.1 67.8
14	8.75 130	224	8.75 199	225	1.24 801	9.99 931	46	4 92.8 92.4 91.6 90.8 90.4
		223		224				5 116.0 115.5 114.5 113.5 113.0
15	8.75 353		8.75 423		1.24 577	9.99 930	**45**	6 139.2 138.6 137.4 136.2 135.6
16	8.75 575	222	8.75 645	222	1.24 355	9.99 929	44	7 162.4 161.7 160.3 158.9 158.2
17	8.75 795	220	8.75 867	222	1.24 133	9.99 929	43	8 185.6 184.8 183.2 181.6 180.8
18	8.76 015	220	8.76 087	220	1.23 913	9.99 928	42	9 208.8 207.9 206.1 204.3 203.4
19	8.76 234	219	8.76 306	219	1.23 694	9.99 927	41	
		217		219				**224 222 220 219 217**
20	8.76 451		8.76 525		1.23 475	9.99 926	**40**	1 22.4 22.2 22.0 21.9 21.7
21	8.76 667	216	8.76 742	217	1.23 258	9.99 926	39	2 44.8 44.4 44.0 43.8 43.4
22	8.76 883	216	8.76 958	216	1.23 042	9.99 925	38	3 67.2 66.6 66.0 65.7 65.1
23	8.77 097	214	8.77 173	215	1.22 827	9.99 924	37	4 89.6 88.8 88.0 87.6 86.8
24	8.77 310	213	8.77 387	214	1.22 613	9.99 923	36	5 112.0 111.0 110.0 109.5 108.5
		212		213				6 134.4 133.2 132.0 131.4 130.2
25	8.77 522		8.77 600		1.22 400	9.99 923	**35**	7 156.8 155.4 154.0 153.3 151.9
26	8.77 733	211	8.77 811	211	1.22 189	9.99 922	34	8 179.2 177.6 176.0 175.2 173.6
27	8.77 943	210	8.78 022	211	1.21 978	9.99 921	33	9 201.6 199.8 198.0 197.1 195.3
28	8.78 152	209	8.78 232	210	1.21 768	9.99 920	32	
29	8.78 360	208	8.78 441	209	1.21 559	9.99 920	31	**216 214 213 211 209**
		208		208				1 21.6 21.4 21.3 21.1 20.9
30	8.78 568		8.78 649		1.21 351	9.99 919	**30**	2 43.2 42.8 42.6 42.2 41.8
31	8.78 774	206	8.78 855	206	1.21 145	9.99 918	29	3 64.8 64.2 63.9 63.3 62.7
32	8.78 979	205	8.79 061	206	1.20 939	9.99 917	28	4 86.4 85.6 85.2 84.4 83.6
33	8.79 183	204	8.79 266	205	1.20 734	9.99 917	27	5 108.0 107.0 106.5 105.5 104.5
34	8.79 386	203	8.79 470	204	1.20 530	9.99 916	26	6 129.6 128.4 127.8 126.6 125.4
		202		203				7 151.2 149.8 149.1 147.7 146.3
35	8.79 588		8.79 673		1.20 327	9.99 915	**25**	8 172.8 171.2 170.4 168.8 167.2
36	8.79 789	201	8.79 875	202	1.20 125	9.99 914	24	9 194.4 192.6 191.7 189.9 188.1
37	8.79 990	201	8.80 076	201	1.19 924	9.99 913	23	
38	8.80 189	199	8.80 277	201	1.19 723	9.99 913	22	**208 206 203 201 199**
39	8.80 388	199	8.80 476	199	1.19 524	9.99 912	21	1 20.8 20.6 20.3 20.1 19.9
		197		198				2 41.6 41.2 40.6 40.2 39.8
40	8.80 585		8.80 674		1.19 326	9.99 911	**20**	3 62.4 61.8 60.9 60.3 59.7
41	8.80 782	197	8.80 872	198	1.19 128	9.99 910	19	4 83.2 82.4 81.2 80.4 79.6
42	8.80 978	196	8.81 068	196	1.18 932	9.99 909	18	5 104.0 103.0 101.5 100.5 99.5
43	8.81 173	195	8.81 264	196	1.18 736	9.99 909	17	6 124.8 123.6 121.8 120.6 119.4
44	8.81 367	194	8.81 459	195	1.18 541	9.99 908	16	7 145.6 144.2 142.1 140.7 139.3
		193		194				8 166.4 164.8 162.4 160.8 159.2
45	8.81 560		8.81 653		1.18 347	9.99 907	**15**	9 187.2 185.4 182.7 180.9 179.1
46	8.81 752	192	8.81 846	193	1.18 154	9.99 906	14	
47	8.81 944	192	8.82 038	192	1.17 962	9.99 905	13	**198 196 194 192 190**
48	8.82 134	190	8.82 230	192	1.17 770	9.99 904	12	1 19.8 19.6 19.4 19.2 19.0
49	8.82 324	190	8.82 420	190	1.17 580	9.99 904	11	2 39.6 39.2 38.8 38.4 38.0
		189		190				3 59.4 58.8 58.2 57.6 57.0
50	8.82 513		8.82 610		1.17 390	9.99 903	**10**	4 79.2 78.4 77.6 76.8 76.0
51	8.82 701	188	8.82 799	189	1.17 201	9.99 902	9	5 99.0 98.0 97.0 96.0 95.0
52	8.82 888	187	8.82 987	188	1.17 013	9.99 901	8	6 118.8 117.6 116.4 115.2 114.0
53	8.83 075	187	8.83 175	188	1.16 825	9.99 900	7	7 138.6 137.2 135.8 134.4 133.0
54	8.83 261	186	8.83 361	186	1.16 639	9.99 899	6	8 158.4 156.8 155.2 153.6 152.0
		185		186				9 178.2 176.4 174.6 172.8 171.0
55	8.83 446		8.83 547		1.16 453	9.99 898	**5**	
56	8.83 630	184	8.83 732	185	1.16 268	9.99 898	4	**188 186 184 182 181**
57	8.83 813	183	8.83 916	184	1.16 084	9.99 897	3	1 18.8 18.6 18.4 18.2 18.1
58	8.83 996	183	8.84 100	184	1.15 900	9.99 896	2	2 37.6 37.2 36.8 36.4 36.2
59	8.84 177	181	8.84 282	182	1.15 718	9.99 895	1	3 56.4 55.8 55.2 54.6 54.3
		181		182				4 75.2 74.4 73.6 72.8 72.4
60	8.84 358		8.84 464		1.15 536	9.99 894	**0**	5 94.0 93.0 92.0 91.0 90.5
								6 112.8 111.6 110.4 109.2 108.6
								7 131.6 130.2 128.8 127.4 126.7
								8 150.4 148.8 147.2 145.6 144.8
								9 169.2 167.4 165.6 163.8 162.9
	L Cos	d	L Cot	c d	L Tan	L Sin	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos		PP
0	8.84 358	181	8.84 464	182	1.15 536	9.99 894	60	182 181 180 179 178
1	8.84 539	179	8.84 646	180	1.15 354	9.99 893	59	1 18.2 18.1 18.0 17.9 17.8
2	8.84 718	179	8.84 826	180	1.15 174	9.99 892	58	2 36.4 36.2 36.0 35.8 35.6
3	8.84 897	178	8.85 006	179	1.14 994	9.99 891	57	3 54.6 54.3 54.0 53.7 53.4
4	8.85 075	177	8.85 185	178	1.14 815	9.99 891	56	4 72.8 72.4 72.0 71.6 71.2
5	8.85 252	177	8.85 363	177	1.14 637	9.99 890	55	5 91.0 90.5 90.0 89.5 89.0
6	8.85 429	176	8.85 540	177	1.14 460	9.99 889	54	6 109.2 108.6 108.0 107.4 106.8
7	8.85 605	175	8.85 717	176	1.14 283	9.99 888	53	7 127.4 126.7 126.0 125.3 124.6
8	8.85 780	175	8.85 893	176	1.14 107	9.99 887	52	8 145.6 144.8 144.0 143.2 142.4
9	8.85 955	173	8.86 069	174	1.13 931	9.99 886	51	9 163.8 162.9 162.0 161.1 160.2
10	8.86 128	173	8.86 243	174	1.13 757	9.99 885	50	177 176 175 174 173
11	8.86 301	173	8.86 417	174	1.13 583	9.99 884	49	1 17.7 17.6 17.5 17.4 17.3
12	8.86 474	173	8.86 591	174	1.13 409	9.99 883	48	2 35.4 35.2 35.0 34.8 34.6
13	8.86 645	171	8.86 763	172	1.13 237	9.99 882	47	3 53.1 52.8 52.5 52.2 51.9
14	8.86 816	171	8.86 935	172	1.13 065	9.99 881	46	4 70.8 70.4 70.0 69.6 69.2
15	8.86 987	171	8.87 106	171	1.12 894	9.99 880	45	5 88.5 88.0 87.5 87.0 86.5
16	8.87 156	169	8.87 277	171	1.12 723	9.99 879	44	6 106.2 105.6 105.0 104.4 103.8
17	8.87 325	169	8.87 447	170	1.12 553	9.99 879	43	7 123.9 123.2 122.5 121.8 121.1
18	8.87 494	169	8.87 616	169	1.12 384	9.99 878	42	8 141.6 140.8 140.0 139.2 138.4
19	8.87 661	167	8.87 785	169	1.12 215	9.99 877	41	9 159.3 158.4 157.5 156.6 155.7
20	8.87 829	168	8.87 953	168	1.12 047	9.99 876	40	172 171 170 169 168
21	8.87 995	166	8.88 120	167	1.11 880	9.99 875	39	1 17.2 17.1 17.0 16.9 16.8
22	8.88 161	166	8.88 287	167	1.11 713	9.99 874	38	2 34.4 34.2 34.0 33.8 33.6
23	8.88 326	165	8.88 453	166	1.11 547	9.99 873	37	3 51.6 51.3 51.0 50.7 50.4
24	8.88 490	164	8.88 618	165	1.11 382	9.99 872	36	4 68.8 68.4 68.0 67.6 67.2
25	8.88 654	164	8.88 783	165	1.11 217	9.99 871	35	5 86.0 85.5 85.0 84.5 84.0
26	8.88 817	163	8.88 948	165	1.11 052	9.99 870	34	6 103.2 102.6 102.0 101.4 100.8
27	8.88 980	163	8.89 111	163	1.10 889	9.99 869	33	7 120.4 119.7 119.0 118.3 117.6
28	8.89 142	162	8.89 274	163	1.10 726	9.99 868	32	8 137.6 136.8 136.0 135.2 134.4
29	8.89 304	162	8.89 437	163	1.10 563	9.99 867	31	9 154.8 153.9 153.0 152.1 151.2
30	8.89 464	160	8.89 598	161	1.10 402	9.99 866	30	167 166 165 164 163
31	8.89 625	161	8.89 760	162	1.10 240	9.99 865	29	1 16.7 16.6 16.5 16.4 16.3
32	8.89 784	159	8.89 920	160	1.10 080	9.99 864	28	2 33.4 33.2 33.0 32.8 32.6
33	8.89 943	159	8.90 080	160	1.09 920	9.99 862	27	3 50.1 49.8 49.5 49.2 48.9
34	8.90 102	159	8.90 240	160	1.09 760	9.99 862	26	4 66.8 66.4 66.0 65.6 65.2
35	8.90 260	158	8.90 399	159	1.09 601	9.99 861	25	5 83.5 83.0 82.5 82.0 81.5
36	8.90 417	157	8.90 557	158	1.09 443	9.99 860	24	6 100.2 99.6 99.0 98.4 97.8
37	8.90 574	157	8.90 715	158	1.09 285	9.99 859	23	7 116.9 116.2 115.5 114.8 114.1
38	8.90 730	156	8.90 872	157	1.09 128	9.99 858	22	8 133.6 132.8 132.0 131.2 130.4
39	8.90 885	155	8.91 029	157	1.08 971	9.99 857	21	9 150.3 149.4 148.5 147.6 146.7
40	8.91 040	155	8.91 185	156	1.08 815	9.99 856	20	162 161 160 159 158
41	8.91 195	155	8.91 340	155	1.08 660	9.99 855	19	1 16.2 16.1 16.0 15.9 15.8
42	8.91 349	154	8.91 495	155	1.08 505	9.99 854	18	2 32.4 32.2 32.0 31.8 31.6
43	8.91 502	153	8.91 650	155	1.08 350	9.99 853	17	3 48.6 48.3 48.0 47.7 47.4
44	8.91 655	153	8.91 803	153	1.08 197	9.99 852	16	4 64.8 64.4 64.0 63.6 63.2
45	8.91 807	152	8.91 957	154	1.08 043	9.99 851	15	5 81.0 80.5 80.0 79.5 79.0
46	8.91 959	152	8.92 110	153	1.07 890	9.99 850	14	6 97.2 96.6 96.0 95.4 94.8
47	8.92 110	151	8.92 262	152	1.07 738	9.99 848	13	7 113.4 112.7 112.0 111.3 110.6
48	8.92 261	151	8.92 414	152	1.07 586	9.99 847	12	8 129.6 128.8 128.0 127.2 126.4
49	8.92 411	150	8.92 565	151	1.07 435	9.99 846	11	9 145.8 144.9 144.0 143.1 142.2
50	8.92 561	150	8.92 716	151	1.07 284	9.99 845	10	157 156 155 154 153
51	8.92 710	149	8.92 866	150	1.07 134	9.99 844	9	1 15.7 15.6 15.5 15.4 15.3
52	8.92 859	149	8.93 016	150	1.06 984	9.99 843	8	2 31.4 31.2 31.0 30.8 30.6
53	8.93 007	148	8.93 165	149	1.06 835	9.99 842	7	3 47.1 46.8 46.5 46.2 45.9
54	8.93 154	147	8.93 313	148	1.06 687	9.99 841	6	4 62.8 62.4 62.0 61.6 61.2
55	8.93 301	147	8.93 462	149	1.06 538	9.99 840	5	5 78.5 78.0 77.5 77.0 76.5
56	8.93 448	147	8.93 609	147	1.06 391	9.99 839	4	6 94.2 93.6 93.0 92.4 91.8
57	8.93 594	146	8.93 756	147	1.06 244	9.99 838	3	7 109.9 109.2 108.5 107.8 107.1
58	8.93 740	146	8.93 903	147	1.06 097	9.99 837	2	8 125.6 124.8 124.0 123.2 122.4
59	8.93 885	145	8.94 049	146	1.05 951	9.99 836	1	9 141.3 140.4 139.5 138.6 137.7
60	8.94 030	145	8.94 195	146	1.05 805	9.99 834	0	152 151 150 149 148
	L Cos	d	L Cot	c d	L Tan	L Sin	′	PP
								1 15.2 15.1 15.0 14.9 14.8
								2 30.4 30.2 30.0 29.8 29.6
								3 45.6 45.3 45.0 44.7 44.4
								4 60.8 60.4 60.0 59.6 59.2
								5 76.0 75.5 75.0 74.5 74.0
								6 91.2 90.6 90.0 89.4 88.8
								7 106.4 105.7 105.0 104.3 103.6
								8 121.6 120.8 120.0 119.2 118.4
								9 136.8 135.9 135.0 134.1 133.2

85°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos		PP			
									147	146	145	144
0	8.94 030	144	8.94 195	145	1.05 805	9.99 834	60	1	14.7	14.6	14.5	14.4
1	8.94 174	143	8.94 340	145	1.05 660	9.99 833	59	2	29.4	29.2	29.0	28.8
2	8.94 317	144	8.94 485	145	1.05 515	9.99 832	58	3	44.1	43.8	43.5	43.2
3	8.94 461	142	8.94 630	143	1.05 370	9.99 831	57	4	58.8	58.4	58.0	57.6
4	8.94 603		8.94 773		1.05 227	9.99 830	56	5	73.5	73.0	72.5	72.0
		143		144				6	88.2	87.6	87.0	86.4
5	8.94 746		8.94 917		1.05 083	9.99 829	55	7	102.9	102.2	101.5	100.8
6	8.94 887	141	8.95 060	143	1.04 940	9.99 828	54	8	117.6	116.8	116.0	115.2
7	8.95 029	142	8.95 202	142	1.04 798	9.99 827	53	9	132.3	131.4	130.5	129.6
8	8.95 170	141	8.95 344	142	1.04 656	9.99 825	52					
9	8.95 310	140	8.95 486	142	1.04 514	9.99 824	51					
		140		141					143	142	141	140
10	8.95 450		8.95 627		1.04 373	9.99 823	50	1	14.3	14.2	14.1	14.0
11	8.95 589	139	8.95 767	140	1.04 233	9.99 822	49	2	28.6	28.4	28.2	28.0
12	8.95 728	139	8.95 908	141	1.04 092	9.99 821	48	3	42.9	42.6	42.3	42.0
13	8.95 867	139	8.96 047	139	1.03 953	9.99 820	47	4	57.2	56.8	56.4	56.0
14	8.96 005	138	8.96 187	140	1.03 813	9.99 819	46	5	71.5	71.0	70.5	70.0
		138		138				6	85.8	85.2	84.6	84.0
15	8.96 143		8.96 325		1.03 675	9.99 817	45	7	100.1	99.4	98.7	98.0
16	8.96 280	137	8.96 464	139	1.03 536	9.99 816	44	8	114.4	113.6	112.8	112.0
17	8.96 417	137	8.96 602	138	1.03 398	9.99 815	43	9	128.7	127.8	126.9	126.0
18	8.96 553	136	8.96 739	137	1.03 261	9.99 814	42					
19	8.96 689	136	8.96 877	138	1.03 123	9.99 813	41					
		136		136					139	138	137	136
20	8.96 825		8.97 013		1.02 987	9.99 812	40	1	13.9	13.8	13.7	13.6
21	8.96 960	135	8.97 150	137	1.02 850	9.99 810	39	2	27.8	27.6	27.4	27.2
22	8.97 095	135	8.97 285	135	1.02 715	9.99 809	38	3	41.7	41.4	41.1	40.8
23	8.97 229	134	8.97 421	136	1.02 579	9.99 808	37	4	55.6	55.2	54.8	54.4
24	8.97 363	134	8.98 556	135	1.02 444	9.99 807	36	5	69.5	69.0	68.5	68.0
		133		135				6	83.4	82.8	82.2	81.6
25	8.97 496		8.97 691		1.02 309	9.99 806	35	7	97.3	96.6	95.9	95.2
26	8.97 629	133	8.97 825	134	1.02 175	9.99 804	34	8	111.2	110.4	109.6	108.8
27	8.97 762	133	8.97 959	134	1.02 041	9.99 803	33	9	125.1	124.2	123.3	122.4
28	8.97 894	132	8.98 092	133	1.01 908	9.99 802	32					
29	8.98 026	132	8.98 225	133	1.01 775	9.99 801	31					
		131		133					135	134	133	132
30	8.98 157		8.98 358		1.01 642	9.99 800	30	1	13.5	13.4	13.3	13.2
31	8.98 288	131	8.98 490	132	1.01 510	9.99 798	29	2	27.0	26.8	26.6	26.4
32	8.98 419	131	8.98 622	132	1.01 378	9.99 797	28	3	40.5	40.2	39.9	39.6
33	8.98 549	130	8.98 753	131	1.01 247	9.99 796	27	4	54.0	53.6	53.2	52.8
34	8.98 679	130	8.98 884	131	1.01 116	9.99 795	26	5	67.5	67.0	66.5	66.0
		129		131				6	81.0	80.4	79.8	79.2
35	8.98 808		8.99 015		1.00 985	9.99 793	25	7	94.5	93.8	93.1	92.4
36	8.98 937	129	8.99 145	130	1.00 855	9.99 792	24	8	108.0	107.2	106.4	105.6
37	8.99 066	129	8.99 275	130	1.00 725	9.99 791	23	9	121.5	120.6	119.7	118.8
38	8.99 194	128	8.99 405	130	1.00 595	9.99 790	22					
39	8.99 322	128	8.99 534	129	1.00 466	9.99 788	21					
		128		128					131	130	129	128
40	8.99 450		8.99 662		1.00 338	9.99 787	20	1	13.1	13.0	12.9	12.8
41	8.99 577	127	8.99 791	129	1.00 209	9.99 786	19	2	26.2	26.0	25.8	25.6
42	8.99 704	127	8.99 919	128	1.00 081	9.99 785	18	3	39.3	39.0	38.7	38.4
43	8.99 830	126	9.00 046	127	0.99 954	9.99 783	17	4	52.4	52.0	51.6	51.2
44	8.99 956	126	9.00 174	128	0.99 826	9.99 782	16	5	65.5	65.0	64.5	64.0
		126		127				6	78.6	78.0	77.4	76.8
45	9.00 082		9.00 301		0.99 699	9.99 781	15	7	91.7	91.0	90.3	89.6
46	9.00 207	125	9.00 427	126	0.99 573	9.99 780	14	8	104.8	104.0	103.2	102.4
47	9.00 332	125	9.00 553	126	0.99 447	9.99 778	13	9	117.9	117.0	116.1	115.2
48	9.00 456	124	9.00 679	126	0.99 321	9.99 777	12					
49	9.00 581	125	9.00 805	126	0.99 195	9.99 776	11					
		123		125					127	126	125	124
50	9.00 704		9.00 930		0.99 070	9.99 775	10	1	12.7	12.6	12.5	12.4
51	9.00 828	124	9.01 055	125	0.98 945	9.99 773	9	2	25.4	25.2	25.0	24.8
52	9.00 951	123	9.01 179	124	0.98 821	9.99 772	8	3	38.1	37.8	37.5	37.2
53	9.01 074	123	9.01 303	124	0.98 697	9.99 771	7	4	50.8	50.4	50.0	49.6
54	9.01 196	122	9.01 427	124	0.98 573	9.99 769	6	5	63.5	63.0	62.5	62.0
		122		123				6	76.2	75.6	75.0	74.4
55	9.01 318		9.01 550		0.98 450	9.99 768	5	7	88.9	88.2	87.5	86.8
56	9.01 440	122	9.01 673	123	0.98 327	9.99 767	4	8	101.6	100.8	100.0	99.2
57	9.01 561	121	9.01 796	123	0.98 204	9.99 765	3	9	114.3	113.4	112.5	111.6
58	9.01 682	121	9.01 918	122	0.98 082	9.99 764	2					
59	9.01 803	121	9.02 040	122	0.97 960	9.99 763	1					
		120		122					123	122	121	120
60	9.01 923		9.02 162		0.97 838	9.99 761	0	1	12.3	12.2	12.1	12.0
								2	24.6	24.4	24.2	24.0
								3	36.9	36.6	36.3	36.0
								4	49.2	48.8	48.4	48.0
								5	61.5	61.0	60.5	60.0
								6	73.8	73.2	72.6	72.0
								7	86.1	85.4	84.7	84.0
								8	98.4	97.6	96.8	96.0
								9	110.7	109.8	108.9	108.0
	L Cos	d	L Cot	c d	L Tan	L Sin	′		PP			

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos		PP
0	9.01 923	120	9.02 162	121	0.97 838	9.99 761	60	
1	9.02 043	120	9.02 283	121	0.97 717	9.99 760	59	
2	9.02 163	120	9.02 404	121	0.97 596	9.99 759	58	
3	9.02 283	119	9.02 525	120	0.97 475	9.99 757	57	
4	9.02 402	118	9.02 645	121	0.97 355	9.99 756	56	
5	9.02 520	119	9.02 766	119	0.97 234	9.99 755	55	121 120 119 118
6	9.02 639	118	9.02 885	120	0.97 115	9.99 753	54	1 12.1 12.0 11.9 11.8
7	9.02 757	117	9.03 005	119	0.96 995	9.99 752	53	2 24.2 24.0 23.8 23.6
8	9.02 874	118	9.03 124	118	0.96 876	9.99 751	52	3 36.3 36.0 35.7 35.4
9	9.02 992	117	9.03 242	119	0.96 758	9.99 749	51	4 48.4 48.0 47.6 47.2
10	9.03 109	117	9.03 361	118	0.96 639	9.99 748	50	5 60.5 60.0 59.5 59.0
11	9.03 226	116	9.03 479	118	0.96 521	9.99 747	49	6 72.6 72.0 71.4 70.8
12	9.03 342	116	9.03 597	117	0.96 403	9.99 745	48	7 84.7 84.0 83.3 82.6
13	9.03 458	116	9.03 714	118	0.96 286	9.99 744	47	8 96.8 96.0 95.2 95.4
14	9.03 574	116	9.03 832	116	0.96 168	9.99 742	46	9 108.9 108.0 107.1 106.2
15	9.03 690	115	9.03 948	117	0.96 052	9.99 741	45	
16	9.03 805	115	9.04 065	116	0.95 935	9.99 740	44	117 116 115 114
17	9.03 920	114	9.04 181	116	0.95 819	9.99 738	43	1 11.7 11.6 11.5 11.4
18	9.04 034	115	9.04 297	116	0.95 703	9.99 737	42	2 23.4 23.2 23.0 22.8
19	9.04 149	113	9.04 413	116	0.95 587	9.99 736	41	3 35.1 34.8 34.5 34.2
20	9.04 262	114	9.04 528	115	0.95 472	9.99 734	40	4 46.8 46.4 46.0 45.6
21	9.04 376	114	9.04 643	115	0.95 357	9.99 733	39	5 58.5 58.0 57.5 57.0
22	9.04 490	113	9.04 758	115	0.95 242	9.99 731	38	6 70.2 69.6 69.0 68.4
23	9.04 603	112	9.04 873	115	0.95 127	9.99 730	37	7 81.9 81.2 80.5 79.8
24	9.04 715	113	9.04 987	114	0.95 013	9.99 728	36	8 93.6 92.8 92.0 91.2
25	9.04 828	112	9.05 101	114	0.94 899	9.99 727	35	9 105.3 104.4 103.5 102.6
26	9.04 940	112	9.05 214	113	0.94 786	9.99 726	34	
27	9.05 052	112	9.05 328	114	0.94 672	9.99 724	33	113 112 111 110
28	9.05 164	111	9.05 441	113	0.94 559	9.99 723	32	1 11.3 11.2 11.1 11.0
29	9.05 275	111	9.05 553	112	0.94 447	9.99 721	31	2 22.6 22.4 22.2 22.0
30	9.05 386	111	9.05 666	113	0.94 334	9.99 720	30	3 33.9 33.6 33.3 33.0
31	9.05 497	110	9.05 778	112	0.94 222	9.99 718	29	4 45.2 44.8 44.4 44.0
32	9.05 607	110	9.05 890	112	0.94 110	9.99 717	28	5 56.5 56.0 55.5 55.0
33	9.05 717	110	9.06 002	112	0.93 998	9.99 716	27	6 67.8 67.2 66.6 66.0
34	9.05 827	110	9.06 113	111	0.93 887	9.99 714	26	7 79.1 78.4 77.7 77.0
35	9.05 937	109	9.06 224	111	0.93 776	9.99 713	25	8 90.4 89.6 88.8 88.0
36	9.06 046	109	9.06 335	110	0.93 665	9.99 711	24	9 101.7 100.8 99.9 99.0
37	9.06 155	109	9.06 445	111	0.93 555	9.99 710	23	
38	9.06 264	108	9.06 556	110	0.93 444	9.99 708	22	
39	9.06 372	109	9.06 666	109	0.93 334	9.99 707	21	109 108 107 106
40	9.06 481	108	9.06 775	110	0.93 225	9.99 705	20	1 10.9 10.8 10.7 10.6
41	9.06 589	107	9.06 885	109	0.93 115	9.99 704	19	2 21.8 21.6 21.4 21.2
42	9.06 696	108	9.06 994	109	0.93 006	9.99 702	18	3 32.7 32.4 32.1 31.8
43	9.06 804	107	9.07 103	108	0.92 897	9.99 701	17	4 43.6 43.2 42.8 42.4
44	9.06 911	107	9.07 211	109	0.92 789	9.99 699	16	5 54.5 54.0 53.5 53.0
45	9.07 018	106	9.07 320	108	0.92 680	9.99 698	15	6 65.4 64.8 64.2 63.6
46	9.07 124	107	9.07 428	108	0.92 572	9.99 696	14	7 76.3 75.6 74.9 74.2
47	9.07 231	106	9.07 536	108	0.92 464	9.99 695	13	8 87.2 86.4 85.6 84.8
48	9.07 337	105	9.07 643	107	0.92 357	9.99 693	12	9 98.1 97.2 96.3 95.4
49	9.07 442	106	9.07 751	108	0.92 249	9.99 692	11	
50	9.07 548	105	9.07 858	107	0.92 142	9.99 690	10	105 104 103
51	9.07 653	105	9.07 964	106	0.92 036	9.99 689	9	1 10.5 10.4 10.3
52	9.07 758	105	9.08 071	107	0.91 929	9.99 687	8	2 21.0 20.8 20.6
53	9.07 863	105	9.08 177	106	0.91 823	9.99 686	7	3 31.5 31.2 30.9
54	9.07 968	105	9.08 283	106	0.91 717	9.99 684	6	4 42.0 41.6 41.2
55	9.08 072	104	9.08 389	106	0.91 611	9.99 683	5	5 52.5 52.0 51.5
56	9.08 176	104	9.08 495	106	0.91 505	9.99 681	4	6 63.0 62.4 61.8
57	9.08 280	104	9.08 600	105	0.91 400	9.99 680	3	7 73.5 72.8 72.1
58	9.08 383	103	9.08 705	105	0.91 295	9.99 678	2	8 84.0 83.2 82.4
59	9.08 486	103	9.08 810	105	0.91 190	9.99 677	1	9 94.5 93.6 92.7
60	9.08 589	103	9.08 914	104	0.91 086	9.99 675	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	′	PP

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′	L Sin	d	L Tan	c d	L Cot	L Cos		PP
0	9.08 589		9.08 914		0.91 086	9.99 675	60	
1	9.08 692	103	9.09 019	105	0.90 981	9.99 674	59	
2	9.08 795	103	9.09 123	104	0.90 877	9.99 672	58	
3	9.08 897	102	9.09 227	104	0.90 773	9.99 670	57	
4	9.08 999	102	9.09 330	103	0.90 670	9.99 669	56	105 104 103
5	9.09 101	101	9.09 434	104	0.90 566	9.99 667	55	1 10.5 10.4 10.3
6	9.09 202	102	9.09 537	103	0.90 463	9.99 666	54	2 21.0 20.8 20.6
7	9.09 304	101	9.09 640	103	0.90 360	9.99 664	53	3 31.5 31.2 30.9
8	9.09 405	101	9.09 742	102	0.90 258	9.99 663	52	4 42.0 41.6 41.2
9	9.09 506	100	9.09 845	103	0.90 155	9.99 661	51	5 52.5 52.0 51.5
10	9.09 606	101	9.09 947	102	0.90 053	9.99 659	50	6 63.0 62.4 61.8
11	9.09 707	100	9.10 049	102	0.89 951	9.99 658	49	7 73.5 72.8 72.1
12	9.09 807	100	9.10 150	101	0.89 850	9.99 656	48	8 84.0 83.2 82.4
13	9.09 907	99	9.10 252	102	0.89 748	9.99 655	47	9 94.5 93.6 92.7
14	9.10 006	100	9.10 353	101	0.89 647	9.99 653	46	
15	9.10 106	99	9.10 454	101	0.89 546	9.99 611	45	102 101 99
16	9.10 205	99	9.10 555	101	0.89 445	9.99 600	44	1 10.2 10.1 9.9
17	9.10 304	98	9.10 656	100	0.89 344	9.99 648	43	2 20.4 20.2 19.8
18	9.10 402	99	9.10 756	100	0.89 244	9.99 647	42	3 30.6 30.3 29.7
19	9.10 501	98	9.10 856	100	0.89 144	9.99 645	41	4 40.8 40.4 39.6
20	9.10 599	98	9.10 956	100	0.89 044	9.99 643	40	5 51.0 50.5 49.5
21	9.10 697	98	9.11 056	99	0.88 944	9.99 942	39	6 61.2 60.6 59.4
22	9.10 795	98	9.11 155	99	0.88 845	9.99 640	38	7 71.4 70.7 69.3
23	9.10 893	97	9.11 254	99	0.88 746	9.99 638	37	8 81.6 80.8 79.2
24	9.10 990	97	9.11 353	99	0.88 647	9.99 637	36	9 91.8 90.9 89.1
25	9.11 087	97	9.11 452	99	0.88 548	9.99 635	35	
26	9.11 184	97	9.11 551	98	0.88 449	9.99 633	34	98 97 96
27	9.11 281	96	9.11 649	98	0.88 351	9.99 632	33	
28	9.11 377	97	9.11 747	98	0.88 253	9.99 630	32	1 9.8 9.7 9.6
29	9.11 474	96	9.11 845	98	0.88 155	9.99 629	31	2 19.6 19.4 19.2
30	9.11 570	96	9.11 943	98	0.88 057	9.99 627	30	3 29.4 29.1 28.8
31	9.11 666	95	9.12 040	97	0.87 960	9.99 625	29	4 39.2 38.8 38.4
32	9.11 761	96	9.12 138	98	0.87 862	9.99 624	28	5 49.0 48.5 48.0
33	9.11 857	95	9.12 235	97	0.87 765	9.99 622	27	6 58.8 58.2 57.6
34	9.11 952	95	9.12 332	97	0.87 668	9.99 620	26	7 68.6 67.9 67.2
35	9.12 047	95	9.12 428	96	0.87 572	9.99 618	25	8 78.4 77.6 76.8
36	9.12 142	95	9.12 525	97	0.87 475	9.99 617	24	9 88.2 87.3 86.4
37	9.12 236	94	9.12 621	96	0.87 379	9.99 615	23	
38	9.12 331	95	9.12 717	96	0.87 283	9.99 613	22	95 94 93
39	9.12 425	94	9.12 813	96	0.87 187	9.99 612	21	
40	9.12 519	94	9.12 909	96	0.87 091	9.99 610	20	1 9.5 9.4 9.3
41	9.12 612	93	9.13 004	95	0.86 996	9.99 608	19	2 19.0 18.8 18.6
42	9.12 706	94	9.13 099	95	0.86 901	9.99 607	18	3 28.5 28.2 27.9
43	9.12 799	93	9.13 194	95	0.86 806	9.99 605	17	4 38.0 37.6 37.2
44	9.12 892	93	9.13 289	95	0.86 711	9.99 603	16	5 47.5 47.0 46.5
45	9.12 985	93	9.13 384	95	0.86 616	9.99 601	15	6 57.0 56.4 55.8
46	9.13 078	93	9.13 478	94	0.86 522	9.99 600	14	7 66.5 65.8 65.1
47	9.13 171	93	9.13 573	95	0.86 427	9.99 598	13	8 76.0 75.2 74.4
48	9.13 263	92	9.13 667	94	0.86 333	9.99 596	12	9 85.5 84.6 83.7
49	9.13 355	92	9.13 761	94	0.86 239	9.99 595	11	
50	9.13 447	92	9.13 854	93	0.86 146	9.99 593	10	92 91 90
51	9.13 539	92	9.13 948	94	0.86 052	9.99 591	9	1 9.2 9.1 9.0
52	9.13 630	91	9.14 041	93	0.85 959	9.99 589	8	2 18.4 18.2 18.0
53	9.13 722	92	9.14 134	93	0.85 866	9.99 588	7	3 27.6 27.3 27.0
54	9.13 813	91	9.14 227	93	0.85 773	9.99 586	6	4 36.8 36.4 36.0
55	9.13 904	91	9.14 320	93	0.85 680	9.99 584	5	5 46.0 45.5 45.0
56	9.13 994	90	9.14 412	92	0.85 588	9.99 582	4	6 55.2 54.6 54.0
57	9.14 085	91	9.14 504	92	0.85 496	9.99 581	3	7 64.4 63.7 63.0
58	9.14 175	90	9.14 597	93	0.85 403	9.99 579	2	8 73.6 72.8 72.0
59	9.14 266	91	9.14 688	91	0.85 312	9.99 577	1	9 82.8 81.9 81.0
60	9.14 356	90	9.14 780	92	0.85 220	9.99 575	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	′	PP

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′	L Sin	d	L Tan	c d	L Cot	L Cos		PP
0	9.14 356	89	9.14 780	92	0.85 220	9.99 575	60	
1	9.14 445	90	9.14 872	91	0.85 128	9.99 574	59	
2	9.14 535	89	9.14 963	91	0.85 037	9.99 572	58	
3	9.14 624	90	9.15 054	91	0.84 946	9.99 570	57	92 91 90
4	9.14 714	89	9.15 145	91	0.84 855	9.99 568	56	
5	9.14 803	88	9.15 236	91	0.84 764	9.99 566	55	1 9.2 9.1 9.0
6	9.14 891	89	9.15 327	90	0.84 673	9.99 565	54	2 18.4 18.2 18.0
7	9.14 980	89	9.15 417	91	0.84 583	9.99 563	53	3 27.6 27.3 27.0
8	9.15 069	88	9.15 508	90	0.84 492	9.99 561	52	4 36.8 36.4 36.0
9	9.15 157	88	9.15 598	90	0.84 402	9.99 559	51	5 46.0 45.5 45.0
10	9.15 245	88	9.15 688	89	0.84 312	9.99 557	50	6 55.2 54.6 54.0
11	9.15 333	88	9.15 777	90	0.84 223	9.99 556	49	7 64.4 63.7 63.0
12	9.15 421	88	9.15 867	89	0.84 133	9.99 554	48	8 73.6 72.8 72.0
13	9.15 508	87	9.15 956	90	0.84 044	9.99 552	47	9 82.8 81.9 81.0
14	9.15 596	88	9.16 046	89	0.83 954	9.99 550	46	
15	9.15 683	87	9.16 135	89	0.83 865	9.99 548	45	89 88
16	9.15 770	87	9.16 224	88	0.83 776	9.99 546	44	1 8.9 8.8
17	9.15 857	87	9.16 312	89	0.83 688	9.99 545	43	2 17.8 17.6
18	9.15 944	87	9.16 401	88	0.83 599	9.99 543	42	3 26.7 26.4
19	9.16 030	86	9.16 489	88	0.83 511	9.99 541	41	4 35.6 35.2
20	9.16 116	87	9.16 577	88	0.83 423	9.99 539	40	5 44.5 44.0
21	9.16 203	86	9.16 665	88	0.83 335	9.99 537	39	6 53.4 52.8
22	9.16 289	85	9.16 753	88	0.83 247	9.99 535	38	7 62.3 61.6
23	9.16 374	86	9.16 841	87	0.83 159	9.99 533	37	8 71.2 70.4
24	9.16 460	85	9.16 928	88	0.83 072	9.99 532	36	9 80.1 79.2
25	9.16 545	86	9.17 016	87	0.82 984	9.99 530	35	
26	9.16 631	85	9.17 103	87	0.82 897	9.99 528	34	87 86 85
27	9.16 716	85	9.17 190	87	0.82 810	9.99 526	33	
28	9.16 801	85	9.17 277	86	0.82 723	9.99 524	32	1 8.7 8.6 8.5
29	9.16 886	84	9.17 363	87	0.82 637	9.99 522	31	2 17.4 17.2 17.0
30	9.16 970	85	9.17 450	86	0.82 550	9.99 520	30	3 26.1 25.8 25.5
31	9.17 055	84	9.17 536	86	0.82 464	9.99 518	29	4 34.8 34.4 34.0
32	9.17 139	84	9.17 622	86	0.82 378	9.99 517	28	5 43.5 43.0 42.5
33	9.17 223	84	9.17 708	86	0.82 292	9.99 515	27	6 52.2 51.6 51.0
34	9.17 307	84	9.17 794	86	0.82 206	9.99 513	26	7 60.9 60.2 59.5
35	9.17 391	83	9.17 880	85	0.82 120	9.99 511	25	8 69.6 68.8 68.0
36	9.17 474	84	9.17 965	86	0.82 035	9.99 509	24	9 78.3 77.4 76.5
37	9.17 558	83	9.18 051	85	0.81 949	9.99 507	23	
38	9.17 641	83	9.18 136	85	0.81 864	9.99 505	22	84 83
39	9.17 724	83	9.18 221	85	0.81 779	9.99 503	21	
40	9.17 807	83	9.18 306	85	0.81 694	9.99 501	20	1 8.4 8.3
41	9.17 890	83	9.18 391	84	0.81 609	9.99 499	19	2 16.8 16.6
42	9.17 973	83	9.18 475	85	0.81 525	9.99 497	18	3 25.2 24.9
43	9.18 055	82	9.18 560	84	0.81 440	9.99 495	17	4 33.6 33.2
44	9.18 137	82	9.18 644	84	0.81 356	9.99 494	16	5 42.0 41.5
45	9.18 220	83	9.18 728	84	0.81 272	9.99 492	15	6 50.4 49.8
46	9.18 302	82	9.18 812	84	0.81 188	9.99 490	14	7 58.8 58.1
47	9.18 383	81	9.18 896	84	0.81 104	9.99 488	13	8 67.2 66.4
48	9.18 465	82	9.18 979	83	0.81 021	9.99 486	12	9 75.6 74.7
49	9.18 547	82	9.19 063	84	0.80 937	9.99 484	11	
50	9.18 628	81	9.19 146	83	0.80 854	9.99 482	10	82 81 80
51	9.18 709	81	9.19 229	83	0.80 771	9.99 480	9	
52	9.18 790	81	9.19 312	83	0.80 688	9.99 478	8	1 8.2 8.1 8.0
53	9.18 871	81	9.19 395	83	0.80 605	9.99 476	7	2 16.4 16.2 16.0
54	9.18 952	81	9.19 478	83	0.80 522	9.99 474	6	3 24.6 24.3 24.0
55	9.19 033	80	9.19 561	82	0.80 439	9.99 472	5	4 32.8 32.4 32.0
56	9.19 113	80	9.19 643	82	0.80 357	9.99 470	4	5 41.0 40.5 40.0
57	9.19 193	80	9.19 725	82	0.80 275	9.99 468	3	6 49.2 48.6 48.0
58	9.19 273	80	9.19 807	82	0.80 193	9.99 466	2	7 57.4 56.7 56.0
59	9.19 353	80	9.19 889	82	0.80 111	9.99 464	1	8 65.6 64.8 64.0
60	9.19 433		9.19 971		0.80 029	9.99 462	0	9 73.8 72.9 72.0
	L Cos	d	L Cot	c d	L Tan	L Sin	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

	L Sin	d	L Tan	c d	L Cot	L Cos		PP
0	9.19 433		9.19 971		0.80 029	9.99 462	60	
1	9.19 513	80	9.20 053	82	0.79 947	9.99 460	59	
2	9.19 592	79	9.20 134	81	0.79 866	9.99 458	58	
3	9.19 672	80	9.20 216	82	0.79 784	9.99 456	57	
4	9.19 751	79	9.20 297	81	0.79 703	9.99 454	56	
		79		81				
5	9.19 830	79	9.20 378	81	0.79 622	9.99 452	55	82 81 80
6	9.19 909	79	9.20 459	81	0.79 541	9.99 450	54	
7	9.19 988	79	9.20 540	81	0.79 460	9.99 448	53	1 8.2 8.1 .8.0
8	9.20 067	78	9.20 621	81	0.79 379	9.99 446	52	2 16.4 16.2 16.0
9	9.20 145	78	9.20 701	80	0.79 299	9.99 444	51	3 24.6 24.3 24.0
		78		81				4 32.8 32.4 32.0
10	9.20 223	79	9.20 782	80	0.79 218	9.99 442	50	5 41.0 40.5 40.0
11	9.20 302	78	9.20 862	80	0.79 138	9.99 440	49	6 49.2 48.6 48.0
12	9.20 380	78	9.20 942	80	0.79 058	9.99 438	48	7 57.4 56.7 56.0
13	9.20 458	77	9.21 022	80	0.78 978	9.99 436	47	8 65.6 64.8 64.0
14	9.20 535	78	9.21 102	80	0.78 898	9.99 434	46	9 73.8 72.9 72.0
		78		80				
15	9.20 613	78	9.21 182	79	0.78 818	9.99 432	45	
16	9.20 691	77	9.21 261	80	0.78 739	9.99 429	44	
17	9.20 768	77	9.21 341	79	0.78 659	9.99 427	43	
18	9.20 845	77	9.21 420	79	0.78 580	9.99 425	42	
19	9.20 922	77	9.21 499	79	0.78 501	9.99 423	41	
		77		79				79 78 77
20	9 20 999	77	9.21 578	79	0.78 422	9.99 421	40	
21	9.21 076	77	9.21 657	79	0.78 343	9.99 419	39	1 7.9 7.8 7.7
22	9.21 153	76	9.21 736	78	0.78 264	9.99 417	38	2 15.8 15.6 15.4
23	9.21 229	77	9.21 814	79	0.78 186	9.99 415	37	3 23.7 23.4 23.1
24	9.21 306	76	9.21 893	78	0.78 107	9.99 413	36	4 31.6 31.2 30.8
								5 39.5 39.0 38.5
25	9.21 382	76	9 21 971	78	0.78 029	9.99 411	35	6 47.7 46.8 46.2
26	9.21 458	76	9.22 049	78	0.77 951	9.99 409	34	7 55.3 54.6 53.9
27	9.21 534	76	9.22 127	78	0.77 873	9.99 407	33	8 63.2 62.4 61.6
28	9.21 610	75	9.22 205	78	0.77 795	9.99 404	32	9 71.1 70.2 69.3
29	9.21 685	76	9.22 283	78	0.77 717	9.99 402	31	
30	9.21 761	75	9.22 361	77	0.77 639	9.99 400	30	
31	9.21 836	76	9.22 438	78	0.77 562	9.99 398	29	
32	9.21 912	75	9.22 516	77	0.77 484	9.99 396	28	
33	9.21 987	75	9.22 593	77	0.77 407	9.99 394	27	
34	9.22 062	75	9 22 670	77	0.77 330	9.99 392	26	76 75 74
		75		77				
35	9.22 137	74	9 22 747	77	0.77 253	9.99 390	25	1 7.6 7.5 7.4
36	9.22 211	75	9.22 824	77	0.77 176	9.99 388	24	2 15.2 15.0 14.8
37	9.22 286	75	9.22 901	76	0.77 099	9.99 385	23	3 22.8 22.5 22.2
38	9.22 361	74	9.22 977	77	0.77 023	9.99 383	22	4 30.4 30.0 29.6
39	9.22 435	74	9.23 054	76	0.76 946	9.99 381	21	5 38.0 37.5 37.0
								6 45.6 45.0 44.4
40	9.22 509	74	9.23 130	76	0 76 870	9.99 379	20	7 53.2 52.5 51.8
41	9.22 583	74	9 23 206	77	0.76 794	9.99 377	19	8 60.8 60.0 59.2
42	9.22 657	74	9 23 283	76	0.76 717	9.99 375	18	9 68.4 67.5 66.6
43	9.22 731	74	9 23 359	76	0.76 641	9.99 372	17	
44	9.22 805	74	9 23 435	76	0.76 565	9.99 370	16	
		73		75				
45	9 22 878	74	9 23 510	76	0.76 490	9.99 368	15	
46	9 22 952	73	9.23 586	75	0.76 414	9.99 366	14	
47	9.23 025	73	9.23 661	76	0.76 339	9.99 364	13	
48	9 23 098	73	9.23 737	75	0.76 263	9.99 362	12	73 72 71
49	9 23 171	73	9.23 812	75	0.76 188	9.99 359	11	
		73		75				1 7.3 7.2 7.1
50	9.23 244	73	9.23 887	75	0.76 113	9.99 357	10	2 14.6 14.4 14.2
51	9.23 317	73	9 23 962	75	0.76 038	9.99 355	9	3 21.9 21.6 21.3
52	9 23 390	72	9.24 037	75	0.75 963	9.99 353	8	4 29.2 28.8 28.4
53	9 23 462	73	9.24 112	74	0.75 888	9.99 351	7	5 36.5 36.0 35.5
54	9.23 535	73	9 24 186	75	0.75 814	9.99 348	6	6 43.8 43.2 42.6
		72						7 51.1 50.4 49.7
55	9.23 607	72	9 24 261	74	0.75 739	9.99 346	5	8 58.4 57.6 56.8
56	9.23 679	73	9 24 335	75	0 75 665	9.99 344	4	9 65.7 64.8 63.9
57	9 23 752	71	9.24 410	74	0.75 590	9.99 342	3	
58	9 23 823	72	9 24 484	74	0.75 516	9.99 340	2	
59	9 23 895	72	9 24 558	74	0.75 442	9.99 337	1	
60	9.23 967		9.24 632		0.75 368	9.99 335	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	′	PP

80°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

10°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.23 967		9.24 632		0.75 368	9.99 335		60	
1	9.24 039	72	9.24 706	74	0.75 294	9.99 333	2	59	
2	9.24 110	71	9.24 779	73	0.75 221	9.99 331	2	58	
3	9.24 181	71	9.24 853	74	0.75 147	9.99 328	3	57	
4	9.24 253	72	9.24 926	73	0.75 074	9.99 326	2	56	
		71		74			2		
5	9.24 324		9.25 000		0.75 000	9.99 324		55	74 73 72
6	9.24 395	71	9.25 073	73	0.74 927	9.99 322	2	54	
7	9.24 466	71	9.25 146	73	0.74 854	9.99 319	3	53	1 | 7.4 7.3 7.2
8	9.24 536	70	9.25 219	73	0.74 781	9.99 317	2	52	2 | 14.8 14.6 14.4
9	9.24 607	71	9.25 292	73	0.74 708	9.99 315	2	51	3 | 22.2 21.9 21.6
		70		73			2		4 | 29.6 29.2 28.8
10	9.24 677		9.25 365		0.74 635	9.99 313	3	50	5 | 37.0 36.5 36.0
11	9.24 748	71	9.25 437	72	0.74 563	9.99 310	2	49	6 | 44.4 43.8 43.2
12	9.24 818	70	9.25 510	73	0.74 490	9.99 308	2	48	7 | 51.8 51.1 50.4
13	9.24 888	70	9.25 582	72	0.74 418	9.99 306	2	47	8 | 59.2 58.4 57.6
14	9.24 958	70	9.25 655	73	0.74 345	9.99 304	2	46	9 | 66.6 65.7 64.8
		70		72			3		
15	9.25 028		9.25 727		0.74 273	9.99 301		45	
16	9.25 098	70	9.25 799	72	0.74 201	9.99 299	2	44	
17	9.25 168	70	9.25 871	72	0.74 129	9.99 297	2	43	
18	9.25 237	69	9.25 943	72	0.74 057	9.99 294	3	42	
19	9.25 307	70	9.26 015	72	0.73 985	9.99 292	2	41	
		69		71			2		71 70 69
20	9.25 376		9.26 086		0.73 914	9.99 290		40	1 | 7.1 7.0 6.9
21	9.25 445	69	9.26 158	72	0.73 842	9.99 288	2	39	2 | 14.2 14.0 13.8
22	9.25 514	69	9.26 229	71	0.73 771	9.99 285	3	38	3 | 21.3 21.0 20.7
23	9.25 583	69	9.26 301	72	0.73 699	9.99 283	2	37	4 | 28.4 28.0 27.6
24	9.25 652	69	9.26 372	71	0.73 628	9.99 281	2	36	5 | 35.5 35.0 34.5
		69		71			3		6 | 42.6 42.0 41.4
25	9.25 721		9.26 443		0.73 557	9.99 278		35	7 | 49.7 49.0 48.3
26	9.25 790	69	9.26 514	71	0.73 486	9.99 276	2	34	8 | 56.8 56.0 55.2
27	9.25 858	68	9.26 585	71	0.73 415	9.99 274	2	33	9 | 63.9 63.0 62.1
28	9.25 927	69	9.26 655	70	0.73 345	9.99 271	3	32	
29	9.25 995	68	9.26 726	71	0.73 274	9.99 269	2	31	
		68		71			2		
30	9.26 063		9.26 797		0.73 203	9.99 267		30	
31	9.26 131	68	9.26 867	70	0.73 133	9.99 264	3	29	
32	9.26 199	68	9.26 937	70	0.73 063	9.99 262	2	28	
33	9.26 267	68	9.27 008	71	0.72 992	9.99 260	2	27	68 67 66
34	9.26 335	68	9.27 078	70	0.72 922	9.99 257	3	26	
		68		70			2		1 | 6.8 6.7 6.6
35	9.26 403		9.27 148		0.72 852	9.99 255		25	2 | 13.6 13.4 13.2
36	9.26 470	67	9.27 218	70	0.72 782	9.99 252	3	24	3 | 20.4 20.1 19.8
37	9.26 538	68	9.27 288	70	0.72 712	9.99 250	2	23	4 | 27.2 26.8 26.4
38	9.26 605	67	9.27 357	69	0.72 643	9.99 248	2	22	5 | 34.0 33.5 33.0
39	9.26 672	67	9.27 427	70	0.72 573	9.99 245	3	21	6 | 40.8 40.2 39.6
		67		69			2		7 | 47.6 46.9 46.2
40	9.26 739		9.27 496		0.72 504	9.99 243		20	8 | 54.4 53.6 52.8
41	9.26 806	67	9.27 566	70	0.72 434	9.99 241	2	19	9 | 61.2 60.3 59.4
42	9.26 873	67	9.27 635	69	0.72 365	9.99 238	3	18	
43	9.26 940	67	9.27 704	69	0.72 296	9.99 236	2	17	
44	9.27 007	67	9.27 773	69	0.72 227	9.99 233	3	16	
		66		69			2		
45	9.27 073		9.27 842		0.72 158	9.99 231		15	
46	9.27 140	67	9.27 911	69	0.72 089	9.99 229	2	14	
47	9.27 206	66	9.27 980	69	0.72 020	9.99 226	3	13	65 3
48	9.27 273	67	9.28 049	69	0.71 951	9.99 224	2	12	
49	9.27 339	66	9.28 117	68	0.71 883	9.99 221	3	11	
		66		69			2		1 | 6.5 0.3
50	9.27 405		9.28 186		0.71 814	9.99 219		10	2 | 13.0 0.6
51	9.27 471	66	9.28 254	68	0.71 746	9.99 217	2	9	3 | 19.5 0.9
52	9.27 537	66	9.28 323	69	0.71 677	9.99 214	3	8	4 | 26.0 1.2
53	9.27 602	65	9.28 391	68	0.71 609	9.99 212	2	7	5 | 32.5 1.5
54	9.27 668	66	9.28 459	68	0.71 541	9.99 209	3	6	6 | 39.0 1.8
		66		68			2		7 | 45.5 2.1
55	9.27 734		9.28 527		0.71 473	9.99 207		5	8 | 52.0 2.4
56	9.27 799	65	9.28 595	68	0.71 405	9.99 204	3	4	9 | 58.5 2.7
57	9.27 864	65	9.28 662	67	0.71 338	9.99 202	2	3	
58	9.27 930	66	9.28 730	68	0.71 270	9.99 200	2	2	
59	9.27 995	65	9.28 798	68	0.71 202	9.99 197	3	1	
		65		67			2		
60	9.28 060		9.28 865		0.71 135	9.99 195		0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

79°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.28 060		9.28 865		0.71 135	9.99 195		60	
1	9.28 125	65	9.28 933	68	0.71 067	9.99 192	3	59	
2	9.28 190	65	9.29 000	67	0.71 000	9.99 190	2	58	
3	9.28 254	64	9.29 067	67	0.70 933	9.99 187	3	57	
4	9.28 319	65	9.29 134	67	0.70 866	9.99 185	2	56	
		65		67			3		
5	9.28 384	64	9.29 201	67	0.70 799	9.99 182	2	55	66 67 68
6	9.28 448	64	9.29 268	67	0.70 732	9.99 180	3	54	
7	9.28 512	65	9.29 335	67	0.70 665	9.99 177	2	53	1 6.6 6.7 6.8
8	9.28 577	64	9.29 402	66	0.70 598	9.99 175	3	52	2 13.2 13.4 13.6
9	9.28 641	64	9.29 468	67	0.70 532	9.99 172	2	51	3 19.8 20.1 20.4
		64		66			3		4 26.4 26.8 27.2
10	9.28 705	64	9.29 535	67	0.70 465	9.99 170	2	50	5 33.0 33.5 34.0
11	9.28 769	64	9.29 601	66	0.70 399	9.99 167	3	49	6 39.6 40.2 40.8
12	9.28 833	63	9.29 668	67	0.70 332	9.99 165	2	48	7 46.2 46.9 47.6
13	9.28 896	64	9.29 734	66	0.70 266	9.99 162	3	47	8 52.8 53.6 54.4
14	9.28 960	64	9.29 800	66	0.70 200	9.99 160	2	46	9 59.4 60.3 61.2
		64		66			3		
15	9.29 024	63	9.29 866	66	0.70 134	9.99 157	2	45	
16	9.29 087	63	9.29 932	66	0.70 068	9.99 155	3	44	
17	9.29 150	64	9.29 998	66	0.70 002	9.99 152	2	43	
18	9.29 214	63	9.30 064	66	0.69 936	9.99 150	3	42	
19	9.29 277	63	9.30 130	65	0.69 870	9.99 147	2	41	
		63		66			3		64 63 62
20	9.29 340	63	9.30 195	65	0.69 805	9.99 145	2	40	
21	9.29 403	63	9.30 261	65	0.69 739	9.99 142	3	39	1 6.4 6.3 6.2
22	9.29 466	63	9.30 326	65	0.69 674	9.99 140	2	38	2 12.8 12.6 12.4
23	9.29 529	62	9.30 391	66	0.69 609	9.99 137	3	37	3 19.2 18.9 18.6
24	9.29 591	63	9.30 457	65	0.69 543	9.99 135	2	36	4 25.6 25.2 24.8
		62		65			3		5 32.0 31.5 31.0
25	9.29 654	63	9.30 522	65	0.69 478	9.99 132	2	35	6 38.4 37.8 37.2
26	9.29 716	62	9.30 587	65	0.69 413	9.99 130	3	34	7 44.8 44.1 43.4
27	9.29 779	62	9.30 652	65	0.69 348	9.99 127	3	33	8 51.2 50.4 49.6
28	9.29 841	62	9.30 717	65	0.69 283	9.99 124	3	32	9 57.6 56.7 55.8
29	9.29 903	63	9.30 782	64	0.69 218	9.99 122	2	31	
		62		65			3		
30	9.29 966	62	9.30 846	64	0.69 154	9.99 119	2	30	
31	9.30 028	61	9.30 911	65	0.69 089	9.99 117	3	29	
32	9.30 090	62	9.30 975	64	0.69 025	9.99 114	2	28	
33	9.30 151	62	9.31 040	64	0.68 960	9.99 112	2	27	
34	9.30 213	62	9.31 104	64	0.68 896	9.99 109	3	26	62 61 60
35	9.30 275	61	9.31 168	64	0.68 832	9.99 106	3	25	1 6.2 6.1 6.0
36	9.30 336	62	9.31 233	65	0.68 767	9.99 104	2	24	2 12.4 12.2 12.0
37	9.30 398	61	9.31 297	64	0.68 703	9.99 101	3	23	3 18.6 18.3 18.0
38	9.30 459	62	9.31 361	64	0.68 639	9.99 099	2	22	4 24.8 24.4 24.0
39	9.30 521	61	9.31 425	64	0.68 575	9.99 096	3	21	5 31.0 30.5 30.0
		61		64			3		6 37.2 36.6 36.0
40	9.30 582	61	9.31 489	63	0.68 511	9.99 093	2	20	7 43.4 42.7 42.0
41	9.30 643	61	9.31 552	64	0.68 448	9.99 091	3	19	8 49.6 48.8 48.0
42	9.30 704	61	9.31 616	63	0.68 384	9.99 088	2	18	9 55.8 54.9 54.0
43	9.30 765	61	9.31 679	64	0.68 321	9.99 086	3	17	
44	9.30 826	61	9.31 743	63	0.68 257	9.99 083	3	16	
45	9.30 887	60	9.31 806	64	0.68 194	9.99 080	2	15	
46	9.30 947	61	9.31 870	63	0.68 130	9.99 078	3	14	
47	9.31 008	60	9.31 933	63	0.68 067	9.99 075	3	13	
48	9.31 068	61	9.31 996	63	0.68 004	9.99 072	3	12	59 3
49	9.31 129	60	9.32 059	63	0.67 941	9.99 070	2	11	
50	9.31 189	61	9.32 122	63	0.67 878	9.99 067	3	10	1 5.9 0.3
51	9.31 250	60	9.32 185	63	0.67 815	9.99 064	3	9	2 11.8 0.6
52	9.31 310	60	9.32 248	63	0.67 752	9.99 062	2	8	3 17.7 0.9
53	9.31 370	60	9.32 311	62	0.67 689	9.99 059	3	7	4 23.6 1.2
54	9.31 430	60	9.32 373	63	0.67 627	9.99 056	3	6	5 29.5 1.5
55	9.31 490	59	9.32 436	62	0.67 564	9.99 054	2	5	6 35.4 1.8
56	9.31 549	60	9.32 498	63	0.67 502	9.99 051	3	4	7 41.3 2.1
57	9.31 609	60	9.32 561	62	0.67 439	9.99 048	3	3	8 47.2 2.4
58	9.31 669	60	9.32 623	62	0.67 377	9.99 046	2	2	9 53.1 2.7
59	9.31 728	59	9.32 685	62	0.67 315	9.99 043	3	1	
60	9.31 788	60	9.32 747	62	0.67 253	9.99 040	3	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

12°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.31 788		9.32 747		0.67 253	9.99 040		60	
1	9.31 847	59	9.32 810	63	0.67 190	9.99 038	2	59	
2	9.31 907	60	9.32 872	62	0.67 128	9.99 035	3	58	
3	9.31 966	59	9.32 933	61	0.67 067	9.99 032	3	57	
4	9.32 025	59	9.32 995	62	0.67 005	9.99 030	2	56	
5	9.32 084	59	9.33 057	62	0.66 943	9.99 027	3	55	63 62 61
6	9.32 143	59	9.33 119	62	0.66 881	9.99 024	3	54	
7	9.32 202	59	9.33 180	61	0.66 820	9.99 022	2	53	1 | 6.3 6.2 6.1
8	9.32 261	59	9.33 242	62	0.66 758	9.99 019	3	52	2 | 12.6 12.4 12.2
9	9.32 319	58	9.33 303	61	0.66 697	9.99 016	3	51	3 | 18.9 18.6 18.3
10	9.32 378	59	9.33 365	61	0.66 635	9.99 013	2	50	4 | 25.2 24.8 24.4 5 | 31.5 31.0 30.5
11	9.32 437	58	9.33 426	61	0.66 574	9.99 011	3	49	6 | 37.8 37.2 36.6
12	9.32 495	58	9.33 487	61	0.66 513	9.99 008	3	48	7 | 44.1 43.4 42.7
13	9.32 553	58	9.33 548	61	0.66 452	9.99 005	3	47	8 | 50.4 49.6 48.8
14	9.32 612	59	9.33 609	61	0.66 391	9.99 002	3	46	9 | 56.7 55.8 54.9
15	9.32 670	58	9.33 670	61	0.66 330	9.99 000	2	45	
16	9.32 728	58	9.33 731	61	0.66 269	9.98 997	3	44	
17	9.32 786	58	9.33 792	61	0.66 208	9.98 994	3	43	
18	9.32 844	58	9.33 853	60	0.66 147	9.98 991	3	42	
19	9.32 902	58	9.33 913	61	0.66 087	9.98 989	2	41	
20	9.32 960	58	9.33 974	60	0.66 026	9.98 986	3	40	60 59
21	9.33 018	57	9.34 034	61	0.65 966	9.98 983	3	39	1 | 6.0 5.9
22	9.33 075	58	9.34 095	60	0.65 905	9.98 980	3	38	2 | 12.0 11.8
23	9.33 133	57	9.34 155	60	0.65 845	9.98 978	2	37	3 | 18.0 17.7
24	9.33 190	58	9.34 215	60	0.65 785	9.98 975	3	36	4 | 24.0 23.6
25	9.33 248	57	9.34 276	61	0.65 724	9.98 972	3	35	5 | 30.0 29.5 6 | 36.0 35.4
26	9.33 305	57	9.34 336	60	0.65 664	9.98 969	3	34	7 | 42.0 41.3
27	9.33 362	58	9.34 396	60	0.65 604	9.98 967	2	33	8 | 48.0 47.2
28	9.33 420	57	9.34 456	60	0.65 544	9.98 964	3	32	9 | 54.0 53.1
29	9.33 477	57	9.34 516	60	0.65 484	9.98 961	3	31	
30	9.33 534	57	9.34 576	59	0.65 424	9.98 958	3	30	
31	9.33 591	56	9.34 635	60	0.65 365	9.98 955	3	29	
32	9.33 647	57	9.34 695	60	0.65 305	9.98 953	2	28	
33	9.33 704	57	9.34 755	59	0.65 245	9.98 950	3	27	
34	9.33 761	57	9.34 814	60	0.65 186	9.98 947	3	26	58 57
35	9.33 818	56	9.34 874	59	0.65 126	9.98 944	3	25	1 | 5.8 5.7
36	9.33 874	57	9.34 933	59	0.65 067	9.98 941	3	24	2 | 11.6 11.4
37	9.33 931	56	9.34 992	59	0.65 008	9.98 938	3	23	3 | 17.4 17.1
38	9.33 987	56	9.35 051	59	0.64 949	9.98 936	2	22	4 | 23.2 22.8
39	9.34 043	57	9.35 111	60	0.64 889	9.98 933	3	21	5 | 29.0 28.5
40	9.34 100	56	9.35 170	59	0.64 830	9.98 930	3	20	6 | 34.8 34.2 7 | 40.6 39.9
41	9.34 156	56	9.35 229	59	0.64 771	9.98 927	3	19	8 | 46.4 45.6
42	9.34 212	56	9.35 288	59	0.64 712	9.98 924	3	18	9 | 52.2 51.3
43	9.34 268	56	9.35 347	59	0.64 653	9.98 921	3	17	
44	9.34 324	56	9.35 405	58	0.64 595	9.98 919	2	16	
45	9.34 380	56	9.35 464	59	0.64 536	9.98 916	3	15	
46	9.34 436	56	9.35 523	59	0.64 477	9.98 913	3	14	
47	9.34 491	55	9.35 581	58	0.64 419	9.98 910	3	13	
48	9.34 547	56	9.35 640	59	0.64 360	9.98 907	3	12	56 55 3
49	9.34 602	55	9.35 698	58	0.64 302	9.98 904	3	11	
50	9.34 658	56	9.35 757	59	0.64 243	9.98 901	3	10	1 | 5.6 5.5 0.3 2 | 11.2 11.0 0.6
51	9.34 713	55	9.35 815	58	0.64 185	9.98 898	3	9	3 | 16.8 16.5 0.9
52	9.34 769	56	9.35 873	58	0.64 127	9.98 896	2	8	4 | 22.4 22.0 1.2
53	9.34 824	55	9.35 931	58	0.64 069	9.98 893	3	7	5 | 28.0 27.5 1.5
54	9.34 879	55	9.35 989	58	0.64 011	9.98 890	3	6	6 | 33.6 33.0 1.8
55	9.34 934	55	9.36 047	58	0.63 953	9.98 887	3	5	7 | 39.2 38.5 2.1 8 | 44.8 44.0 2.4
56	9.34 989	55	9.36 105	58	0.63 895	9.98 884	3	4	9 | 50.4 49.5 2.7
57	9.35 044	55	9.36 163	58	0.63 837	9.98 881	3	3	
58	9.35 099	55	9.36 221	58	0.63 779	9.98 878	3	2	
59	9.35 154	55	9.36 279	58	0.63 721	9.98 875	3	1	
60	9.35 209		9.36 336	57	0.63 664	9.98 872	3	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

77°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.35 209		9.36 336		0.63 664	9.98 872		**60**	
1	9.35 263	54	9.36 394	58	0.63 606	9.98 869	3	59	
2	9.35 318	55	9.36 452	58	0.63 548	9.98 867	2	58	
3	9.35 373	55	9.36 509	57	0.63 491	9.98 864	3	57	
4	9.35 427	54	9.36 566	57	0.63 434	9.98 861	3	56	
		54		58			3		
5	9.35 481		9.36 624		0.63 376	9.98 858		**55**	**58 57 56**
6	9.35 536	55	9.36 681	57	0.63 319	9.98 855	3	54	
7	9.35 590	54	9.36 738	57	0.63 262	9.98 852	3	53	1 5.8 5.7 5.6
8	9.35 644	54	9.36 795	57	0.63 205	9.98 849	3	52	2 11.6 11.4 11.2
9	9.35 698	54	9.36 852	57	0.63 148	9.98 846	3	51	3 17.4 17.1 16.8
		54		57			3		4 23.2 22.8 22.4
10	9.35 752		9.36 909		0.63 091	9.98 843		**50**	5 29.0 28.5 28.0
11	9.35 806	54	9.36 966	57	0.63 034	9.98 840	3	49	6 34.8 34.2 33.6
12	9.35 860	54	9.37 023	57	0.62 977	9.98 837	3	48	7 40.6 39.9 39.2
13	9.35 914	54	9.37 080	57	0.62 920	9.98 834	3	47	8 46.6 45.6 44.8
14	9.35 968	54	9.37 137	57	0.62 863	9.98 831	3	46	9 52.2 51.3 50.4
		54		56			3		
15	9.36 022		9.37 193		0.62 807	9.98 828		**45**	
16	9.36 075	53	9.37 250	57	0.62 750	9.98 825	3	44	
17	9.36 129	54	9.37 306	56	0.62 694	9.98 822	3	43	
18	9.36 182	53	9.37 363	57	0.62 637	9.98 819	3	42	
19	9.36 236	54	9.37 419	56	0.62 581	9.98 816	3	41	
		53		57			3		**55 54 53**
20	9.36 289		9.37 476		0.62 524	9.98 813		**40**	
21	9.36 342	53	9.37 532	56	0.62 468	9.98 810	3	39	1 5.5 5.4 5.3
22	9.36 395	53	9.37 588	56	0.62 412	9.98 807	3	38	2 11.0 10.8 10.6
23	9.36 449	54	9.37 644	56	0.62 356	9.98 804	3	37	3 16.5 16.2 15.9
24	9.36 502	53	9.37 700	56	0.62 300	9.98 801	3	36	4 22.0 21.6 21.2
		53		56			3		5 27.5 27.0 26.5
25	9.36 555		9.37 756		0.62 244	9.98 798		**35**	6 33.0 32.4 31.8
26	9.36 608	53	9.37 812	56	0.62 188	9.98 795	3	34	7 38.5 37.8 37.1
27	9.36 660	52	9.37 868	56	0.62 132	9.98 792	3	33	8 44.0 43.2 42.4
28	9.36 713	53	9.37 924	56	0.62 076	9.98 789	3	32	9 49.5 48.6 47.7
29	9.36 766	53	9.37 980	56	0.62 020	9.98 786	3	31	
		53		55			3		
30	9.36 819		9.38 035		0.61 965	9.98 783		**30**	
31	9.36 871	52	9.38 091	56	0.61 909	9.98 780	3	29	
32	9.36 924	53	9.38 147	56	0.61 853	9.98 777	3	28	
33	9.36 976	52	9.38 202	55	0.61 798	9.98 774	3	27	
34	9.37 028	52	9.38 257	55	0.61 743	9.98 771	3	26	**52 51**
		53		56			3		
35	9.37 081		9.38 313		0.61 687	9.98 768		**25**	1 5.2 5.1
36	9.37 133	52	9.38 368	55	0.61 632	9.98 765	3	24	2 10.4 10.2
37	9.37 185	52	9.38 423	55	0.61 577	9.98 762	3	23	3 15.6 15.3
38	9.37 237	52	9.38 479	56	0.61 521	9.98 759	3	22	4 20.8 20.4
39	9.37 289	52	9.38 534	55	0.61 466	9.98 756	3	21	5 26.0 25.5
		52		55			3		6 31.2 30.6
40	9.37 341		9.38 589		0.61 411	9.98 753		**20**	7 36.4 35.7
41	9.37 393	52	9.38 644	55	0.61 356	9.98 750	3	19	8 41.6 40.8
42	9.37 445	52	9.38 699	55	0.61 301	9.98 746	4	18	9 46.8 45.9
43	9.37 497	52	9.38 754	55	0.61 246	9.98 743	3	17	
44	9.37 549	52	9.38 808	54	0.61 192	9.98 740	3	16	
		51		55			3		
45	9.37 600		9.38 863		0.61 137	9.98 737		**15**	
46	9.37 652	52	9.38 918	55	0.61 082	9.98 734	3	14	
47	9.37 703	51	9.38 972	54	0.61 028	9.98 731	3	13	
48	9.37 755	52	9.39 027	55	0.60 973	9.98 728	3	12	**4 3**
49	9.37 806	51	9.39 082	55	0.60 918	9.98 725	3	11	
		52		54			3		1 0.4 0.3
50	9.37 858		9.39 136		0.60 864	9.98 722		**10**	2 0.8 0.6
51	9.37 909	51	9.39 190	54	0.60 810	9.98 719	3	9	3 1.2 0.9
52	9.37 960	51	9.39 245	55	0.60 755	9.98 715	4	8	4 1.6 1.2
53	9.38 011	51	9.39 299	54	0.60 701	9.98 712	3	7	5 2.0 1.5
54	9.38 062	51	9.39 353	54	0.60 647	9.98 709	3	6	6 2.4 1.8
		51		54			3		7 2.8 2.1
55	9.38 113		9.39 407		0.60 593	9.98 706		**5**	8 3.2 2.4
56	9.38 164	51	9.39 461	54	0.60 539	9.98 703	3	4	9 3.6 2.7
57	9.38 215	51	9.39 515	54	0.60 485	9.98 700	3	3	
58	9.38 266	51	9.39 569	54	0.60 431	9.98 697	3	2	
59	9.38 317	51	9.39 623	54	0.60 377	9.98 694	3	1	
60	9.38 368		9.39 677		0.60 323	9.98 690	4	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

14°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.38 368		9.39 677		0.60 323	9.98 690		**60**	
1	9.38 418	50	9.39 731	54	0.60 269	9.98 687	3	59	
2	9.38 469	51	9.39 785	54	0.60 215	9.98 684	3	58	
3	9.38 519	50	9.39 838	53	0.60 162	9.98 681	3	57	
4	9.38 570	51	9.39 892	54	0.60 108	9.98 678	3	56	
		50		53			3		
5	9.38 620		9.39 945		0.60 055	9.98 675	4	**55**	**54 53**
6	9.38 670	50	9.39 999	54	0.60 001	9.98 671	3	54	
7	9.38 721	51	9.40 052	53	0.59 948	9.98 668	3	53	1 | 5.4 5.3
8	9.38 771	50	9.40 106	54	0.59 894	9.98 665	3	52	2 | 10.8 10.6
9	9.38 821	50	9.40 159	53	0.59 841	9.98 662	3	51	3 | 16.2 15.9
		50		53			3		4 | 21.6 21.2
10	9.38 871		9.40 212		0.59 788	9.98 659	3	**50**	5 | 27.0 26.5
11	9.38 921	50	9.40 266	54	0.59 734	9.98 656	4	49	6 | 32.4 31.8
12	9.38 971	50	9.40 319	53	0.59 681	9.98 652	3	48	7 | 37.8 37.1
13	9.39 021	50	9.40 372	53	0.59 628	9.98 649	3	47	8 | 43.2 42.4
14	9.39 071	50	9.40 425	53	0.59 575	9.98 646	3	46	9 | 48.6 47.7
		50		53			3		
15	9.39 121		9.40 478		0.59 522	9.98 643	3	**45**	
16	9.39 170	49	9.40 531	53	0.59 469	9.98 640	4	44	
17	9.39 220	50	9.40 584	53	0.59 416	9.98 636	3	43	
18	9.39 270	50	9.40 636	52	0.59 364	9.98 633	3	42	
19	9.39 319	49	9.40 689	53	0.59 311	9.98 630	3	41	
		50		53			3		**52 51 50**
20	9.39 369		9.40 742		0.59 258	9.98 627	4	**40**	
21	9.39 418	49	9.40 795	53	0.59 205	9.98 623	3	39	1 | 5.2 5.1 5.0
22	9.39 467	49	9.40 847	52	0.59 153	9.98 620	3	38	2 | 10.4 10.2 10.0
23	9.39 517	50	9.40 900	53	0.59 100	9.98 617	3	37	3 | 15.6 15.3 15.0
24	9.39 566	49	9.40 952	52	0.59 048	9.98 614	3	36	4 | 20.8 20.4 20.0
		49		53			4		5 | 26.0 25.5 25.0
25	9.39 615		9.41 005		0.58 995	9.98 610	3	**35**	6 | 31.2 30.6 30.0
26	9.39 664	49	9.41 057	52	0.58 943	9.98 607	3	34	7 | 36.4 35.7 35.0
27	9.39 713	49	9.41 109	52	0.58 891	9.98 604	3	33	8 | 41.6 40.8 40.0
28	9.39 762	49	9.41 161	52	0.58 839	9.98 601	3	32	9 | 46.8 45.9 45.0
29	9.39 811	49	9.41 214	53	0.58 786	9.98 597	4	31	
		49		52			3		
30	9.39 860		9.41 266		0.58 734	9.98 594	3	**30**	
31	9.39 909	49	9.41 318	52	0.58 682	9.98 591	3	29	
32	9.39 958	49	9.41 370	52	0.58 630	9.98 588	4	28	
33	9.40 006	48	9.41 422	52	0.58 578	9.98 584	3	27	
34	9.40 055	49	9.41 474	52	0.58 526	9.98 581	3	26	**49 48 47**
		48		52			4		
35	9.40 103		9.41 526		0.58 474	9.98 578	3	**25**	1 | 4.9 4.8 4.7
36	9.40 152	49	9.41 578	52	0.58 422	9.98 574	4	24	2 | 9.8 9.6 9.4
37	9.40 200	48	9.41 629	51	0.58 371	9.98 571	3	23	3 | 14.7 14.4 14.1
38	9.40 249	49	9.41 681	52	0.58 319	9.98 568	3	22	4 | 19.6 19.2 18.8
39	9.40 297	48	9.41 733	52	0.58 267	9.98 565	3	21	5 | 24.5 24.0 23.5
		49		51			4		6 | 29.4 28.8 28.2
40	9.40 346		9.41 784		0.58 216	9.98 561	3	**20**	7 | 34.3 33.6 32.9
41	9.40 394	48	9.41 836	52	0.58 164	9.98 558	3	19	8 | 39.2 38.4 37.6
42	9.40 442	48	9.41 887	51	0.58 113	9.98 555	3	18	9 | 44.1 43.2 42.3
43	9.40 490	48	9.41 939	52	0.58 061	9.98 551	4	17	
44	9.40 538	48	9.41 990	51	0.58 010	9.98 548	3	16	
		48		51			3		
45	9.40 586		9.42 041		0.57 959	9.98 545	4	**15**	
46	9.40 634	48	9.42 093	52	0.57 907	9.98 541	3	14	
47	9.40 682	48	9.42 144	51	0.57 856	9.98 538	3	13	
48	9.40 730	48	9.42 195	51	0.57 805	9.98 535	4	12	**4 3**
49	9.40 778	48	9.42 246	51	0.57 754	9.98 531	3	11	
		47		51			3		1 | 0.4 0.3
50	9.40 825		9.42 297		0.57 703	9.98 528	3	**10**	2 | 0.8 0.6
51	9.40 873	48	9.42 348	51	0.57 652	9.98 525	4	9	3 | 1.2 0.9
52	9.40 921	48	9.42 399	51	0.57 601	9.98 521	3	8	4 | 1.6 1.2
53	9.40 968	47	9.42 450	51	0.57 550	9.98 518	3	7	5 | 2.0 1.5
54	9.41 016	48	9.42 501	51	0.57 499	9.98 515	3	6	6 | 2.4 1.8
		47		51			4		7 | 2.8 2.1
55	9.41 063		9.42 552		0.57 448	9.98 511	3	**5**	8 | 3.2 2.4
56	9.41 111	48	9.42 603	51	0.57 397	9.98 508	3	4	9 | 3.6 2.7
57	9.41 158	47	9.42 653	50	0.57 347	9.98 505	3	3	
58	9.41 205	47	9.42 704	51	0.57 296	9.98 501	4	2	
59	9.41 252	47	9.42 755	51	0.57 245	9.98 498	3	1	
		48		50			4		
60	9.41 300		9 42 805		0.57 195	9.98 494		**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

75°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.41 300	47	9.42 805	51	0.57 195	9.98 494	3	**60**	
1	9.41 347	47	9.42 856	50	0.57 144	9.98 491	3	59	
2	9.41 394	47	9.42 906	51	0.57 094	9.98 488	4	58	
3	9.41 441	47	9.42 957	50	0.57 043	9.98 484	3	57	
4	9.41 488	47	9.43 007	50	0.56 993	9.98 481	4	56	
5	9.41 535	47	9.43 057	51	0.56 943	9.98 477	3	**55**	51 50 49
6	9.41 582	46	9.43 108	50	0.56 892	9.98 474	3	54	
7	9.41 628	47	9.43 158	50	0.56 842	9.98 471	4	53	1 5.1 5.0 4.9
8	9.41 675	47	9.43 208	50	0.56 792	9.98 467	3	52	2 10.2 10.0 9.8
9	9.41 722	46	9.43 258	50	0.56 742	9.98 464	4	51	3 15.3 15.0 14.7
10	9.41 768	47	9.43 308	50	0.56 692	9.98 460	3	**50**	4 20.4 20.0 19.6
11	9.41 815	46	9.43 358	50	0.56 642	9.98 457	4	49	5 25.5 25.0 24.5
12	9.41 861	47	9.43 408	50	0.56 592	9.98 453	3	48	6 30.6 30.0 29.4
13	9.41 908	46	9.43 458	50	0.56 542	9.98 450	3	47	7 35.7 35.0 34.3
14	9.41 954	47	9.43 508	50	0.56 492	9.98 447	4	46	8 40.8 40.0 39.2
15	9.42 001	46	9.43 558	49	0.56 442	9.98 443	3	**45**	9 45.9 45.0 44.1
16	9.42 047	46	9.43 607	50	0.56 393	9.98 440	4	44	
17	9.42 093	47	9.43 657	50	0.56 343	9.98 436	3	43	
18	9.42 140	46	9.43 707	49	0.56 293	9.98 433	4	42	
19	9.42 186	46	9.43 756	50	0.56 244	9.98 429	3	41	
20	9.42 232	46	9.43 806	49	0.56 194	9.98 426	4	**40**	48 47 46
21	9.42 278	46	9.43 855	50	0.56 145	9.98 422	3	39	1 4.8 4.7 4.6
22	9.42 324	46	9.43 905	49	0.56 095	9.98 419	4	38	2 9.6 9.4 9.2
23	9.42 370	46	9.43 954	50	0.56 046	9.98 415	3	37	3 14.4 14.1 13.8
24	9.42 416	45	9.44 004	49	0.55 996	9.98 412	3	36	4 19.2 18.8 18.4
25	9.42 461	46	9.44 053	49	0.55 947	9.98 409	4	**35**	5 24.0 23.5 23.0
26	9.42 507	46	9.44 102	49	0.55 898	9.98 405	3	34	6 28.8 28.2 27.6
27	9.42 553	46	9.44 151	50	0.55 849	9.98 402	4	33	7 33.6 32.9 32.2
28	9.42 599	45	9.44 201	49	0.55 799	9.98 398	3	32	8 38.4 37.6 36.8
29	9.42 644	46	9.44 250	49	0.55 750	9.98 395	4	31	9 43.2 42.3 41.4
30	9.42 690	45	9.44 299	49	0.55 701	9.98 391	3	**30**	
31	9.42 735	46	9.44 348	49	0.55 652	9.98 388	4	29	
32	9.42 781	45	9.44 397	49	0.55 603	9.98 384	3	28	
33	9.42 826	46	9.44 446	49	0.55 554	9.98 381	4	27	
34	9.42 872	45	9.44 495	49	0.55 505	9.98 377	4	26	45 44
35	9.42 917	46	9.44 544	48	0.55 456	9.98 373	4	**25**	1 4.5 4.4
36	9.42 962	46	9.44 592	49	0.55 408	9.98 370	3	24	2 9.0 8.8
37	9.43 008	45	9.44 641	49	0.55 359	9.98 366	4	23	3 13.5 13.2
38	9.43 053	45	9.44 690	48	0.55 310	9.98 363	3	22	4 18.0 17.6
39	9.43 098	45	9.44 738	49	0.55 262	9.98 359	4	21	5 22.5 22.0
40	9.43 143	45	9.44 787	49	0.55 213	9.98 356	3	**20**	6 27.0 26.4
41	9.43 188	45	9.44 836	48	0.55 164	9.98 352	4	19	7 31.5 30.8
42	9.43 233	45	9.44 884	49	0.55 116	9.98 349	3	18	8 36.0 35.2
43	9.43 278	45	9.44 933	48	0.55 067	9.98 345	4	17	9 40.5 39.6
44	9.43 323	44	9.44 981	48	0.55 019	9.98 342	3	16	
45	9.43 367	45	9.45 029	48	0.54 971	9.98 338	4	**15**	
46	9.43 412	45	9.45 078	49	0.54 922	9.98 334	4	14	
47	9.43 457	45	9.45 126	48	0.54 874	9.98 331	3	13	
48	9.43 502	44	9.45 174	48	0.54 826	9.98 327	4	12	4 3
49	9.43 546	45	9.45 222	49	0.54 778	9.98 324	3	11	
50	9.43 591	44	9.45 271	48	0.54 729	9.98 320	4	**10**	1 0.4 0.3
51	9.43 635	45	9.45 319	48	0.54 681	9.98 317	3	9	2 0.8 0.6
52	9.43 680	44	9.45 367	48	0.54 633	9.98 313	4	8	3 1.2 0.9
53	9.43 724	45	9.45 415	48	0.54 585	9.98 309	4	7	4 1.6 1.2
54	9.43 769	45	9.45 463	48	0.54 537	9.98 306	3	6	5 2.0 1.5
55	9.43 813	44	9.45 511	48	0.54 489	9.98 302	4	**5**	6 2.4 1.8
56	9.43 857	44	9.45 559	47	0.54 441	9.98 299	3	4	7 2.8 2.1
57	9.43 901	44	9.45 606	48	0.54 394	9.98 295	4	3	8 3.2 2.4
58	9.43 946	45	9.45 654	48	0.54 346	9.98 291	4	2	9 3.6 2.7
59	9.43 990	44	9.45 702	48	0.54 298	9.98 288	3	1	
60	9.44 034	44	9.45 750	48	0.54 250	9.98 284	4	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

16°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.44 034	44	9.45 750	47	0.54 250	9.98 284	3	**60**	
1	9.44 078	44	9.45 797	48	0.54 203	9.98 281	4	59	
2	9.44 122	44	9.45 845	47	0.54 155	9.98 277	4	58	
3	9.44 166	44	9.45 892	48	0.54 108	9.98 273	3	57	
4	9.44 210	44	9.45 940	47	0.54 060	9.98 270	4	56	
5	9.44 253	44	9.45 987	48	0.54 013	9.98 266	4	**55**	**48 47 46**
6	9.44 297	44	9.46 035	47	0.53 965	9.98 262	3	54	
7	9.44 341	44	9.46 082	48	0.53 918	9.98 259	4	53	1 4.8 4.7 4.6
8	9.44 385	43	9.46 130	47	0.53 870	9.98 255	4	52	2 9.6 9.4 9.2
9	9.44 428	44	9.46 177	47	0.53 823	9.98 251	3	51	3 14.4 14.1 13.8
10	9.44 472	44	9.46 224	47	0.53 776	9.98 248	4	**50**	4 19.2 18.8 18.4
11	9.44 516	43	9.46 271	48	0.53 729	9.98 244	4	49	5 24.0 23.5 23.0
12	9.44 559	43	9.46 319	47	0.53 681	9.98 240	3	48	6 28.8 28.2 27.6
13	9.44 602	44	9.46 366	47	0.53 634	9.98 237	4	47	7 33.6 32.9 32.2
14	9.44 646	43	9.46 413	47	0.53 587	9.98 233	4	46	8 38.4 37.6 36.8
15	9.44 689	44	9.46 460	47	0.53 540	9.98 229	3	**45**	9 43.2 42.3 41.4
16	9.44 733	43	9.46 507	47	0.53 493	9.98 226	4	44	
17	9.44 776	43	9.46 554	47	0.53 446	9.98 222	4	43	
18	9.44 819	43	9.46 601	47	0.53 399	9.98 218	4	42	
19	9.44 862	43	9.46 648	47	0.53 352	9.98 215	3	41	
20	9.44 905	43	9.46 694	46	0.53 306	9.98 211	4	**40**	**45 44 43**
21	9.44 948	44	9.46 741	47	0.53 259	9.98 207	4	39	1 4.5 4.4 4.3
22	9.44 992	43	9.46 788	47	0.53 212	9.98 204	3	38	2 9.0 8.8 8.6
23	9.45 035	43	9.46 835	47	0.53 165	9.98 200	4	37	3 13.5 13.2 12.9
24	9.45 077	42	9.46 881	46	0.53 119	9.98 196	4	36	4 18.0 17.6 17.2
25	9.45 120	43	9.46 928	47	0.53 072	9.98 192	4	**35**	5 22.5 22.0 21.5
26	9.45 163	43	9.46 975	47	0.53 025	9.98 189	3	34	6 27.0 26.4 25.8
27	9.45 206	43	9.47 021	46	0.52 979	9.98 185	4	33	7 31.5 30.8 30.1
28	9.45 249	43	9.47 068	47	0.52 932	9.98 181	4	32	8 36.0 35.2 34.4
29	9.45 292	43	9.47 114	46	0.52 886	9.98 177	4	31	9 40.5 39.6 38.7
30	9.45 334	42	9.47 160	46	0.52 840	9.98 174	3	**30**	
31	9.45 377	43	9.47 207	47	0.52 793	9.98 170	4	29	
32	9.45 419	42	9.47 253	46	0.52 747	9.98 166	4	28	
33	9.45 462	43	9.47 299	46	0.52 701	9.98 162	4	27	
34	9.45 504	42	9.47 346	47	0.52 654	9.98 159	3	26	**42 41**
35	9.45 547	43	9.47 392	46	0.52 608	9.98 155	4	**25**	1 4.2 4.1
36	9.45 589	42	9.47 438	46	0.52 562	9.98 151	4	24	2 8.4 8.2
37	9.45 632	43	9.47 484	46	0.52 516	9.98 147	4	23	3 12.6 12.3
38	9.45 674	42	9.47 530	46	0.52 470	9.98 144	3	22	4 16.8 16.4
39	9.45 716	42	9.47 576	46	0.52 424	9.98 140	4	21	5 21.0 20.5
40	9.45 758	42	9.47 622	46	0.52 378	9.98 136	4	**20**	6 25.2 24.6
41	9.45 801	43	9.47 668	46	0.52 332	9.98 132	4	19	7 29.4 28.7
42	9.45 843	42	9.47 714	46	0.52 286	9.98 129	3	18	8 33.6 32.8
43	9.45 885	42	9.47 760	46	0.52 240	9.98 125	4	17	9 37.8 36.9
44	9.45 927	42	9.47 806	46	0.52 194	9.98 121	4	16	
45	9.45 969	42	9.47 852	46	0.52 148	9.98 117	4	**15**	
46	9.46 011	42	9.47 897	45	0.52 103	9.98 113	4	14	
47	9.46 053	42	9.47 943	46	0.52 057	9.98 110	3	13	
48	9.46 095	41	9.47 989	46	0.52 011	9.98 106	4	12	**4 3**
49	9.46 136	42	9.48 035	46	0.51 965	9.98 102	4	11	
50	9.46 178	42	9.48 080	45	0.51 920	9.98 098	4	**10**	1 0.4 0.3
51	9.46 220	42	9.48 126	46	0.51 874	9.98 094	4	9	2 0.8 0.6
52	9.46 262	42	9.48 171	45	0.51 829	9.98 090	4	8	3 1.2 0.9
53	9.46 303	41	9.48 217	46	0.51 783	9.98 087	3	7	4 1.6 1.2
54	9.46 345	42	9.48 262	45	0.51 738	9.98 083	4	6	5 2.0 1.5
55	9.46 386	41	9.48 307	45	0.51 693	9.98 079	4	**5**	6 2.4 1.8
56	9.46 428	42	9.48 353	46	0.51 647	9.98 075	4	4	7 2.8 2.1
57	9.46 469	41	9.48 398	45	0.51 602	9.98 071	4	3	8 3.2 2.4
58	9.46 511	42	9.48 443	45	0.51 557	9.98 067	4	2	9 3.6 2.7
59	9.46 552	41	9.48 489	46	0.51 511	9.98 063	4	1	
60	9.46 594	42	9.48 534	45	0.51 466	9.98 060	3	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

73°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.46 594		9.48 534		0.51 466	9.98 060		**60**	
1	9.46 635	41	9.48 579	45	0.51 421	9.98 056	4	59	
2	9.46 676	41	9.48 624	45	0.51 376	9.98 052	4	58	
3	9.46 717	41	9.48 669	45	0.51 331	9.98 048	4	57	
4	9.46 758	41	9.48 714	45	0.51 286	9.98 044	4	56	
		42		45			4		
5	9.46 800		9.48 759		0.51 241	9.98 040		**55**	
6	9.46 841	41	9.48 804	45	0.51 196	9.98 036	4	54	
7	9.46 882	41	9.48 849	45	0.51 151	9.98 032	4	53	
8	9.46 923	41	9.48 894	45	0.51 106	9.98 029	3	52	
9	9.46 964	41	9.48 939	45	0.51 061	9.98 025	4	51	45 44 43
		41		45			4		
10	9.47 005		9.48 984		0.51 016	9.98 021		**50**	1 4.5 4.4 4.3
11	9.47 045	40	9.49 029	45	0.50 971	9.98 017	4	49	2 9.0 8.8 8.6
12	9.47 086	41	9.49 073	44	0.50 927	9.98 013	4	48	3 13.5 13.2 12.9
13	9.47 127	41	9.49 118	45	0.50 882	9.98 009	4	47	4 18.0 17.6 17.2
14	9.47 168	41	9.49 163	45	0.50 837	9.98 005	4	46	5 22.5 22.0 21.5
		41		44			4		6 27.0 26.4 25.8
15	9.47 209		9.49 207		0.50 793	9.98 001		**45**	7 31.5 30.8 30.1
16	9.47 249	40	9.49 252	45	0.50 748	9.97 997	4	44	8 36.0 35.2 34.4
17	9.47 289	41	9.49 296	44	0.50 704	9.97 993	4	43	9 40.5 39.6 38.7
18	9.47 330	40	9.49 341	45	0.50 659	9.97 989	4	42	
19	9.47 371	41	9.49 385	44	0.50 615	9.97 986	3	41	
		40		45			4		
20	9.47 411		9.49 430		0.50 570	9.97 982		**40**	
21	9.47 452	41	9.49 474	44	0.50 526	9.97 978	4	39	
22	9.47 492	40	9.49 519	45	0.50 481	9.97 974	4	38	
23	9.47 533	41	9.49 563	44	0.50 437	9.97 970	4	37	
24	9.47 573	40	9.49 607	44	0.50 393	9.97 966	4	36	
		40		45			4		
25	9.47 613		9.49 652		0.50 348	9.97 962		**35**	
26	9.47 654	41	9.49 696	44	0.50 304	9.97 958	4	34	42 41 40
27	9.47 694	40	9.49 740	44	0.50 260	9.97 954	4	33	
28	9.47 734	40	9.49 784	44	0.50 216	9.97 950	4	32	1 4.2 4.1 4.0
29	9.47 774	40	9.49 828	44	0.50 172	9.97 946	4	31	2 8.4 8.2 8.0
		40		44			4		3 12.6 12.3 12.0
30	9.47 814		9.49 872		0.50 128	9.97 942		**30**	4 16.8 16.4 16.0
31	9.47 854	40	9.49 916	44	0.50 084	9.97 938	4	29	5 21.0 20.5 20.0
32	9.47 894	40	9.49 960	44	0.50 040	9.97 934	4	28	6 25.2 24.6 24.0
33	9.47 934	40	9.50 004	44	0.49 996	9.97 930	4	27	7 29.4 28.7 28.0
34	9.47 974	40	9.50 048	44	0.49 952	9.97 926	4	26	8 33.6 32.8 32.0
		40		44			4		9 37.8 36.9 36.0
35	9.48 014		9.50 092		0.49 908	9.97 922		**25**	
36	9.48 054	40	9.50 136	44	0.49 864	9.97 918	4	24	
37	9.48 094	40	9.50 180	44	0.49 820	9.97 914	4	23	
38	9.48 133	39	9.50 223	43	0.49 777	9.97 910	4	22	
39	9.48 173	40	9.50 267	44	0.49 733	9.97 906	4	21	
		40		44			4		
40	9.48 213		9.50 311		0.49 689	9.97 902		**20**	
41	9.48 252	39	9.50 355	44	0.49 645	9.97 898	4	19	
42	9.48 292	40	9.50 398	43	0.49 602	9.97 894	4	18	
43	9.48 332	40	9.50 442	44	0.49 558	9.97 890	4	17	
44	9.48 371	39	9.50 485	43	0.49 515	9.97 886	4	16	39 5 4 3
		40		44			4		
45	9.48 411		9.50 529		0.49 471	9.97 882		**15**	1 3.9 0.5 0.4 0.3
46	9.48 450	39	9.50 572	43	0.49 428	9.97 878	4	14	2 7.8 1.0 0.8 0.6
47	9.48 490	40	9.50 616	44	0.49 384	9.97 874	4	13	3 11.7 1.5 1.2 0.9
48	9.48 529	39	9.50 659	43	0.49 341	9.97 870	4	12	4 15.6 2.0 1.6 1.2
49	9.48 568	39	9.50 703	44	0.49 297	9.97 866	4	11	5 19.5 2.5 2.0 1.5
		39		43			5		6 23.4 3.0 2.4 1.8
50	9.48 607		9.50 746		0.49 254	9.97 861		**10**	7 27.3 3.5 2.8 2.1
51	9.48 647	40	9.50 789	43	0.49 211	9.97 857	4	9	8 31.2 4.0 3.2 2.4
52	9.48 686	39	9.50 833	44	0.49 167	9.97 853	4	8	9 35.1 4.5 3.6 2.7
53	9.48 725	39	9.50 876	43	0.49 124	9.97 849	4	7	
54	9.48 764	39	9.50 919	43	0.49 081	9.97 845	4	6	
		39		43			4		
55	9.48 803		9.50 962		0.49 038	9.97 841		**5**	
56	9.48 842	39	9.51 005	43	0.48 995	9.97 837	4	4	
57	9.48 881	39	9.51 048	43	0.48 952	9.97 833	4	3	
58	9.48 920	39	9.51 092	44	0.48 908	9.97 829	4	2	
59	9.48 959	39	9.51 135	43	0.48 865	9.97 825	4	1	
		39		43			4		
60	9.48 998		9.51 178		0.48 822	9.97 821		**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

72°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.48 998	39	9.51 178	43	0.48 822	9.97 821	4	60	
1	9.49 037	39	9.51 221	43	0.48 779	9.97 817	5	59	
2	9.49 076	39	9.51 264	42	0.48 736	9.97 812	4	58	
3	9.49 115	38	9.51 306	43	0.48 694	9.97 808	4	57	
4	9.49 153	39	9.51 349	43	0.48 651	9.97 804	4	56	
5	9.49 192	39	9.51 392	43	0.48 608	9.97 800	4	55	
6	9.49 231	38	9.51 435	43	0.48 565	9.97 796	4	54	
7	9.49 269	39	9.51 478	42	0.48 522	9.97 792	4	53	
8	9.49 308	39	9.51 520	43	0.48 480	9.97 788	4	52	
9	9.49 347	38	9.51 563	43	0.48 437	9.97 784	5	51	43 42 41
10	9.49 385	39	9.51 606	42	0.48 394	9.97 779	4	50	1 4.3 4.2 4.1
11	9.49 424	38	9.51 648	43	0.48 352	9.97 775	4	49	2 8.6 8.4 8.2
12	9.49 462	38	9.51 691	43	0.48 309	9.97 771	4	48	3 12.9 12.6 12.3
13	9.49 500	39	9.51 734	42	0.48 266	9.97 767	4	47	4 17.2 16.8 16.4
14	9.49 539	38	9.51 776	43	0.48 224	9.97 763	4	46	5 21.5 21.0 20.5
15	9.49 577	38	9.51 819	42	0.48 181	9.97 759	5	45	6 25.8 25.2 24.6
16	9.49 615	39	9.51 861	42	0.48 139	9.97 754	4	44	7 30.1 29.4 28.7
17	9.49 654	38	9.51 903	43	0.48 097	9.97 750	4	43	8 34.4 33.6 32.8
18	9.49 692	38	9.51 946	42	0.48 054	9.97 746	4	42	9 38.7 37.8 36.9
19	9.49 730	38	9.51 988	43	0.48 012	9.97 742	4	41	
20	9.49 768	38	9.52 031	42	0.47 969	9.97 738	4	40	
21	9.49 806	38	9.52 073	42	0.47 927	9.97 734	5	39	
22	9.49 844	38	9.52 115	42	0.47 885	9.97 729	4	38	
23	9.49 882	38	9.52 157	43	0.47 843	9.97 725	4	37	
24	9.49 920	38	9.52 200	42	0.47 800	9.97 721	4	36	
25	9.49 958	38	9.52 242	42	0.47 758	9.97 717	4	35	
26	9.49 996	38	9.52 284	42	0.47 716	9.97 713	5	34	39 38 37
27	9.50 034	38	9.52 326	42	0.47 674	9.97 708	4	33	
28	9.50 072	38	9.52 368	42	0.47 632	9.97 704	4	32	1 3.9 3.8 3.7
29	9.50 110	38	9.52 410	42	0.47 590	9.97 700	4	31	2 7.8 7.6 7.4
30	9.50 148	37	9.52 452	42	0.47 548	9.97 696	5	30	3 11.7 11.4 11.1
31	9.50 185	38	9.52 494	42	0.47 506	9.97 691	4	29	4 15.6 15.2 14.8
32	9.50 223	38	9.52 536	42	0.47 464	9.97 687	4	28	5 19.5 19.0 18.5
33	9.50 261	37	9.52 578	42	0.47 422	9.97 683	4	27	6 23.4 22.8 22.2
34	9.50 298	38	9.52 620	42	0.47 380	9.97 679	5	26	7 27.3 26.6 25.9
35	9.50 336	38	9.52 661	42	0.47 339	9.97 674	4	25	8 31.2 30.4 29.6
36	9.50 374	37	9.52 703	42	0.47 297	9.97 670	4	24	9 35.1 34.2 33.3
37	9.50 411	38	9.52 745	42	0.47 255	9.97 666	4	23	
38	9.50 449	37	9.52 787	42	0.47 213	9.97 662	5	22	
39	9.50 486	37	9.52 829	42	0.47 171	9.97 657	4	21	
40	9.50 523	38	9.52 870	42	0.47 130	9.97 653	4	20	
41	9.50 561	37	9.52 912	41	0.47 088	9.97 649	4	19	
42	9.50 598	37	9.52 953	42	0.47 047	9.97 645	5	18	
43	9.50 635	38	9.52 995	42	0.47 005	9.97 640	4	17	
44	9.50 673	37	9.53 037	41	0.46 963	9.97 636	4	16	36 5 4
45	9.50 710	37	9.53 078	42	0.46 922	9.97 632	4	15	1 3.6 0.5 0.4
46	9.50 747	37	9.53 120	41	0.46 880	9.97 628	5	14	2 7.2 1.0 0.8
47	9.50 784	37	9.53 161	41	0.46 839	9.97 623	4	13	3 10.8 1.5 1.2
48	9.50 821	37	9.53 202	42	0.46 798	9.97 619	4	12	4 14.4 2.0 1.6
49	9.50 858	38	9.53 244	41	0.46 756	9.97 615	5	11	5 18.0 2.5 2.0
50	9.50 896	37	9.53 285	42	0.46 715	9.97 610	4	10	6 21.6 3.0 2.4
51	9.50 933	37	9.53 327	41	0.46 673	9.97 606	4	9	7 25.2 3.5 2.8
52	9.50 970	37	9.53 368	41	0.46 632	9.97 602	5	8	8 28.8 4.0 3.2
53	9.51 007	36	9.53 409	41	0.46 591	9.97 597	4	7	9 32.4 4.5 3.6
54	9.51 043	37	9.53 450	41	0.46 550	9.97 593	4	6	
55	9.51 080	37	9.53 492	42	0.46 508	9.97 589	5	5	
56	9.51 117	37	9.53 533	41	0.46 467	9.97 584	4	4	
57	9.51 154	37	9.53 574	41	0.46 426	9.97 580	4	3	
58	9.51 191	37	9.53 615	41	0.46 385	9.97 576	5	2	
59	9.51 227	36	9.53 656	41	0.46 344	9.97 571	4	1	
60	9.51 264	37	9.53 697	41	0.46 303	9.97 567	4	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

71°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.51 264		9.53 697		0.46 303	9.97 567		60	
1	9.51 301	37	9.53 738	41	0.46 262	9.97 563	4	59	
2	9.51 338	37	9.53 779	41	0.46 221	9.97 558	5	58	
3	9.51 374	36	9.53 820	41	0.46 180	9.97 554	4	57	
4	9.51 411	37	9.53 861	41	0.46 139	9.97 550	4	56	
		36		41			5		
5	9.51 447		9.53 902		0.46 098	9.97 545		55	
6	9.51 484	37	9.53 943	41	0.46 057	9.97 541	4	54	
7	9.51 520	36	9.53 984	41	0.46 016	9.97 536	5	53	
8	9.51 557	37	9.54 025	41	0.45 975	9.97 532	4	52	
9	9.51 593	36	9.54 065	40	0.45 935	9.97 528	4	51	41 40 39
		36		41			5		
10	9.51 629		9.54 106		0.45 894	9.97 523		50	1 4.1 4.0 3.9
11	9.51 666	37	9.54 147	41	0.45 853	9.97 519	4	49	2 8.2 8.0 7.8
12	9.51 702	36	9.54 187	40	0.45 813	9.97 515	4	48	3 12.3 12.0 11.7
13	9.51 738	36	9.54 228	41	0.45 772	9.97 510	5	47	4 16.4 16.0 15.6
14	9.51 774	36	9.54 269	41	0.45 731	9.97 506	4	46	5 20.5 20.0 19.5
		37		40			5		6 24.6 24.0 23.4
15	9.51 811		9.54 309		0.45 691	9.97 501		45	7 28.7 28.0 27.3
16	9.51 847	36	9.54 350	41	0.45 650	9.97 497	4	44	8 32.8 32.0 31.2
17	9.51 883	36	9.54 390	40	0.45 610	9.97 492	5	43	9 36.9 36.0 35.1
18	9.51 919	36	9.54 431	41	0.45 569	9.97 488	4	42	
19	9.51 955	36	9.54 471	40	0.45 529	9.97 484	4	41	
		36		41			5		
20	9.51 991		9.54 512		0.45 488	9.97 479		40	
21	9.52 027	36	9.54 552	40	0.45 448	9.97 475	4	39	
22	9.52 063	36	9.54 593	41	0.45 407	9.97 470	5	38	
23	9.52 099	36	9.54 633	40	0.45 367	9.97 466	4	37	
24	9.52 135	36	9.54 673	40	0.45 327	9.97 461	5	36	
		36		41			4		
25	9.52 171		9.54 714		0.45 286	9.97 457		35	
26	9.52 207	36	9.54 754	40	0.45 246	9.97 453	4	34	37 36 35
27	9.52 242	35	9.54 794	40	0.45 206	9.97 448	5	33	
28	9.52 278	36	9.54 835	41	0.45 165	9.97 444	4	32	1 3.7 3.6 3.5
29	9.52 314	36	9.54 875	40	0.45 125	9.97 439	5	31	2 7.4 7.2 7.0
		36		40			4		3 11.1 10.8 10.5
30	9.52 350		9.54 915		0.45 085	9.97 435		30	4 14.8 14.4 14.0
31	9.52 385	35	9.54 955	40	0.45 045	9.97 430	5	29	5 18.5 18.0 17.5
32	9.52 421	36	9.54 995	40	0.45 005	9.97 426	4	28	6 22.2 21.6 21.0
33	9.52 456	35	9.55 035	40	0.44 965	9.97 421	5	27	7 25.9 25.2 24.5
34	9.52 492	36	9.55 075	40	0.44 925	9.97 417	4	26	8 29.6 28.8 28.0
		35		40			5		9 33.3 32.4 31.5
35	9.52 527		9.55 115		0.44 885	9.97 412		25	
36	9.52 563	36	9.55 155	40	0.44 845	9.97 408	4	24	
37	9.52 598	35	9.55 195	40	0.44 805	9.97 403	5	23	
38	9.52 634	36	9.55 235	40	0.44 765	9.97 399	4	22	
39	9.52 669	35	9.55 275	40	0.44 725	9.97 394	5	21	
		36		40			4		
40	9.52 705		9.55 315		0.44 685	9.97 390		20	
41	9.52 740	35	9.55 355	40	0.44 645	9.97 385	5	19	
42	9.52 775	35	9.55 395	40	0.44 605	9.97 381	4	18	
43	9.52 811	36	9.55 434	39	0.44 566	9.97 376	5	17	
44	9.52 846	35	9.55 474	40	0.44 526	9.97 372	4	16	34 5 4
		35		40			5		
45	9.52 881		9.55 514		0.44 486	9.97 367		15	1 3.4 0.5 0.4
46	9.52 916	35	9.55 554	40	0.44 446	9.97 363	4	14	2 6.8 1.0 0.8
47	9.52 951	35	9.55 593	39	0.44 407	9.97 358	5	13	3 10.2 1.5 1.2
48	9.52 986	35	9.55 633	40	0.44 367	9.97 353	5	12	4 13.6 2.0 1.6
49	9.53 021	35	9.55 673	40	0.44 327	9.97 349	4	11	5 17.0 2.5 2.0
		35		39			5		6 20.4 3.0 2.4
50	9.53 056		9.55 712		0.44 288	9.97 344		10	7 23.8 3.5 2.8
51	9.53 092	36	9.55 752	40	0.44 248	9.97 340	4	9	8 27.2 4.0 3.2
52	9.53 126	34	9.55 791	39	0.44 209	9.97 335	5	8	9 30.6 4.5 3.6
53	9.53 161	35	9.55 831	40	0.44 169	9.97 331	4	7	
54	9.53 196	35	9.55 870	39	0.44 130	9.97 326	5	6	
		35		40			4		
55	9.53 231		9.55 910		0.44 090	9.97 322		5	
56	9.53 266	35	9.55 949	39	0.44 051	9.97 317	5	4	
57	9.53 301	35	9.55 989	40	0.44 011	9.97 312	5	3	
58	9.53 336	35	9.56 028	39	0.43 972	9.97 308	4	2	
59	9.53 370	34	9.56 067	39	0.43 933	9.97 303	5	1	
		35		40			4		
60	9.53 405		9.56 107		0.43 893	9.97 299		0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

20°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.53 405		9.56 107		0.43 893	9.97 299		60	
1	9.53 440	35	9.56 146	39	0.43 854	9.97 294	5	59	
2	9.53 475	35	9.56 185	39	0.43 815	9.97 289	5	58	
3	9.53 509	34	9.56 224	39	0.43 776	9.97 285	4	57	
4	9.53 544	35	9.56 264	40	0.43 736	9.97 280	5	56	
		34		39			4		
5	9.53 578		9.56 303		0.43 697	9.97 276		55	
6	9.53 613	35	9.56 342	39	0.43 658	9.97 271	5	54	
7	9.53 647	34	9.56 381	39	0.43 619	9.97 266	5	53	
8	9.53 682	35	9.56 420	39	0.43 580	9.97 262	4	52	
9	9.53 716	34	9.56 459	39	0.43 541	9.97 257	5	51	40 39 38
		35		39			5		
10	9.53 751		9.56 498		0.43 502	9.97 252		50	1 4.0 3.9 3.8
11	9.53 785	34	9.56 537	39	0.43 463	9.97 248	4	49	2 8.0 7.8 7.6
12	9.53 819	34	9.56 576	39	0.43 424	9.97 243	5	48	3 12.0 11.7 11.4
13	9.53 854	35	9.56 615	39	0.43 385	9.97 238	5	47	4 16.0 15.6 15.2
14	9.53 888	34	9.56 654	39	0.43 346	9.97 234	4	46	5 20.0 19.5 19.0
		34		39			5		6 24.0 23.4 22.8
15	9.53 922		9.56 693		0.43 307	9.97 229		45	7 28.0 27.3 26.6
16	9.53 957	35	9.56 732	39	0.43 268	9.97 224	5	44	8 32.0 31.2 30.4
17	9.53 991	34	9.56 771	39	0.43 229	9.97 220	4	43	9 36.0 35.1 34.2
18	9.54 025	34	9.56 810	39	0.43 190	9.97 215	5	42	
19	9.54 059	34	9.56 849	39	0.43 151	9.97 210	5	41	
		34		38			4		
20	9.54 093		9.56 887		0.43 113	9.97 206		40	
21	9.54 127	34	9.56 926	39	0.43 074	9.97 201	5	39	
22	9.54 161	34	9.56 965	39	0.43 035	9.97 196	5	38	
23	9.54 195	34	9.57 004	39	0.42 996	9.97 192	4	37	
24	9.54 229	34	9.57 042	38	0.42 958	9.97 187	5	36	
		34		39			5		
25	9.54 263		9.57 081		0.42 919	9.97 182		35	
26	9.54 297	34	9.57 120	39	0.42 880	9.97 178	4	34	37 35 34
27	9.54 331	34	9.57 158	38	0.42 842	9.97 173	5	33	
28	9.54 365	34	9.57 197	39	0.42 803	9.97 168	5	32	1 3.7 3.5 3.4
29	9.54 399	34	9.57 235	38	0.42 765	9.97 163	5	31	2 7.4 7.0 6.8
		34		39			4		3 11.1 10.5 10.2
30	9.54 433		9.57 274		0.42 726	9.97 159		30	4 14.8 14.0 13.6
31	9.54 466	33	9.57 312	38	0.42 688	9.97 154	5	29	5 18.5 17.5 17.0
32	9.54 500	34	9.57 351	39	0.42 649	9.97 149	5	28	6 22.2 21.0 20.4
33	9.54 534	34	9.57 389	38	0.42 611	9.97 145	4	27	7 25.9 24.5 23.8
34	9.54 567	33	9.57 428	39	0.42 572	9.97 140	5	26	8 29.6 28.0 27.2
		34		38			5		9 33.3 31.5 30.6
35	9.54 601		9.57 466		0.42 534	9.97 135		25	
36	9.54 635	34	9.57 504	38	0.42 496	9.97 130	5	24	
37	9.54 668	33	9.57 543	39	0.42 457	9.97 126	4	23	
38	9.54 702	34	9.57 581	38	0.42 419	9.97 121	5	22	
39	9.54 735	33	9.57 619	38	0.42 381	9.97 116	5	21	
		34		39			5		
40	9.54 769		9.57 658		0.42 342	9.97 111		20	
41	9.54 802	33	9.57 696	38	0.42 304	9.97 107	4	19	
42	9.54 836	34	9.57 734	38	0.42 266	9.97 102	5	18	
43	9.54 869	33	9.57 772	38	0.42 228	9.97 097	5	17	
44	9.54 903	34	9.57 810	38	0.42 190	9.97 092	5	16	33 5 4
		33		39			5		
45	9.54 936		9.57 849		0.42 151	9.97 087		15	1 3.3 0.5 0.4
46	9.54 969	33	9.57 887	38	0.42 113	9.97 083	4	14	2 6.6 1.0 0.8
47	9.55 003	34	9.57 925	38	0.42 075	9.97 078	5	13	3 9.9 1.5 1.2
48	9.55 036	33	9.57 963	38	0.42 037	9.97 073	5	12	4 13.2 2.0 1.6
49	9.55 069	33	9.58 001	38	0.41 999	9.97 068	5	11	5 16.5 2.5 2.0
		33		38			5		6 19.8 3.0 2.4
50	9.55 102		9.58 039		0.41 961	9.97 063		10	7 23.1 3.5 2.8
51	9.55 136	34	9.58 077	38	0.41 923	9.97 059	4	9	8 26.4 4.0 3.2
52	9.55 169	33	9.58 115	38	0.41 885	9.97 054	5	8	9 29.7 4.5 3.6
53	9.55 202	33	9.58 153	38	0.41 847	9.97 049	5	7	
54	9.55 235	33	9.58 191	38	0.41 809	9.97 044	5	6	
		33		38			5		
55	9.55 268		9.58 229		0.41 771	9.97 039		5	
56	9.55 301	33	9.58 267	38	0.41 733	9.97 035	4	4	
57	9.55 334	33	9.58 304	37	0.41 696	9.97 030	5	3	
58	9.55 367	33	9.58 342	38	0.41 658	9.97 025	5	2	
59	9.55 400	33	9.58 380	38	0.41 620	9.97 020	5	1	
		33		38			5		
60	9.55 433		9.58 418		0.41 582	9.97 015		0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

69°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

21°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.55 433		9.58 418		0.41 582	9.97 015		60	
1	9.55 466	33	9.58 455	37	0.41 545	9.97 010	5	59	
2	9.55 499	33	9.58 493	38	0.41 507	9.97 005	5	58	
3	9.55 532	33	9.58 531	38	0.41 469	9.97 001	4	57	
4	9.55 564	32	9.58 569	38	0.41 431	9.96 996	5	56	
		33		37			5		
5	9.55 597		9.58 606		0.41 394	9.96 991		55	
6	9.55 630	33	9.58 644	38	0.41 356	9.96 986	5	54	
7	9.55 663	33	9.58 681	37	0.41 319	9.96 981	5	53	
8	9.55 695	32	9.58 719	38	0.41 281	9.96 976	5	52	
9	9.55 728	33	9.58 757	38	0.41 243	9.96 871	5	51	38 37 36
		33		37			5		
10	9.55 761		9.58 794		0.41 206	9.96 966	4	50	1 3.8 3.7 3.6
11	9.55 793	32	9.58 832	38	0.41 168	9.96 962	5	49	2 7.6 7.4 7.2
12	9.55 826	33	9.58 869	37	0.41 131	9.96 957	5	48	3 11.4 11.1 10.8
13	9.55 858	32	9.58 907	38	0.41 093	9.96 952	5	47	4 15.2 14.8 14.4
14	9.55 891	33	9.58 944	37	0.41 056	9.96 947	5	46	5 19.0 18.5 18.0
		32		37			5		6 22.8 22.2 21.6
15	9.55 923		9.58 981		0.41 019	9.96 942	5	45	7 26.6 25.9 25.2
16	9.55 956	33	9.59 019	38	0.40 981	9.96 937	5	44	8 30.4 29.6 28.8
17	9.55 988	32	9.59 056	37	0.40 944	9.96 932	5	43	9 34.2 33.3 32.4
18	9.56 021	33	9.59 094	38	0.40 906	9.96 927	5	42	
19	9.56 053	32	9.59 131	37	0.40 869	9.96 922	5	41	
		32		37			5		
20	9.56 085		9.59 168		0.40 832	9.96 917		40	
21	9.56 118	33	9.59 205	37	0.40 795	9.96 912	5	39	
22	9.56 150	32	9.59 243	38	0.40 757	9.96 907	5	38	
23	9.56 182	32	9.59 280	37	0.40 720	9.96 903	4	37	
24	9.56 215	33	9.59 317	37	0.40 683	9.96 898	5	36	
		32		37			5		
25	9.56 247		9.59 354		0.40 646	9.96 893		35	
26	9.56 279	32	9.59 391	37	0.40 609	9.96 888	5	34	33 32 31
27	9.56 311	32	9.59 429	38	0.40 571	9.96 883	5	33	
28	9.56 343	32	9.59 466	37	0.40 534	9.96 878	5	32	1 3.3 3.2 3.1
29	9.56 375	32	9.59 503	37	0.40 497	9.96 873	5	31	2 6.6 6.4 6.2
		33		37			5		3 9.9 9.6 9.3
30	9.56 408		9.59 540		0.40 460	9.96 868		30	4 13.2 12.8 12.4
31	9.56 440	32	9.59 577	37	0.40 423	9.96 863	5	29	5 16.5 16.0 15.5
32	9.56 472	32	9.59 614	37	0.40 386	9.96 858	5	28	6 19.8 19.2 18.6
33	9.56 504	32	9.59 651	37	0.40 349	9.96 853	5	27	7 23.1 22.4 21.7
34	9.56 536	32	9.59 688	37	0.40 312	9.96 848	5	26	8 26.4 25.6 24.8
		32		37			5		9 29.7 28.8 27.9
35	9.56 568		9.59 725		0.40 275	9.96 843		25	
36	9.56 599	31	9.59 762	37	0.40 238	9.96 838	5	24	
37	9.56 631	32	9.59 799	37	0.40 201	9.96 833	5	23	
38	9.56 663	32	9.59 835	36	0.40 165	9.96 828	5	22	
39	9.56 695	32	9.59 872	37	0.40 128	9.96 823	5	21	
		32		37			5		
40	9.56 727		9.59 909		0.40 091	9.96 818		20	
41	9.56 759	32	9.59 946	37	0.40 054	9.96 813	5	19	
42	9.56 790	31	9.59 983	37	0.40 017	9.96 808	5	18	
43	9.56 822	32	9.60 019	36	0.39 981	9.96 803	5	17	
44	9.56 854	32	9.60 056	37	0.39 944	9.96 798	5	16	6 5 4
		32		37			5		
45	9.56 886		9.60 093		0.39 907	9.96 793		15	1 0.6 0.5 0.4
46	9.56 917	31	9.60 130	37	0.39 870	9.96 788	5	14	2 1.2 1.0 0.8
47	9.56 949	32	9.60 166	36	0.39 834	9.96 783	5	13	3 1.8 1.5 1.2
48	9.56 980	31	9.60 203	37	0.39 797	9.96 778	5	12	4 2.4 2.0 1.6
49	9.57 012	32	9.60 240	37	0.39 760	9.96 772	6	11	5 3.0 2.5 2.0
		32		36			5		6 3.6 3.0 2.4
50	9.57 044		9.60 276		0.39 724	9.96 767		10	7 4.2 3.5 2.8
51	9.57 075	31	9.60 313	37	0.39 687	9.96 762	5	9	8 4.8 4.0 3.2
52	9.57 107	32	9.60 349	36	0.39 651	9.96 757	5	8	9 5.4 4.5 3.6
53	9.57 138	31	9.60 386	37	0.39 614	9.96 752	5	7	
54	9.57 169	31	9.60 422	36	0.39 578	9.96 747	5	6	
		32		37			5		
55	9.57 201		9.60 459		0.39 541	9.96 742		5	
56	9.57 232	31	9.60 495	36	0.39 505	9.96 737	5	4	
57	9.57 264	32	9.60 532	37	0.39 468	9.96 732	5	3	
58	9.57 295	31	9.60 568	36	0.39 432	9.96 727	5	2	
59	9.57 326	31	9.60 605	37	0.39 395	9.96 722	5	1	
		32		36			5		
60	9.57 358		9.60 641		0.39 359	9.96 717		0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

68°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

22°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.57 358	31	9.60 641	36	0.39 359	9.96 717	6	**60**	
1	9.57 389	31	9.60 677	37	0.39 323	9.96 711	6	59	
2	9.57 420	31	9.60 714	36	0.39 286	9.96 706	5	58	
3	9.57 451	31	9.60 750	36	0.39 250	9.96 701	5	57	
4	9.57 482	32	9.60 786	37	0.39 214	9.96 696	5	56	
5	9.57 514	31	9.60 823	36	0.39 177	9.96 691	5	**55**	
6	9.57 545	31	9.60 859	36	0.39 141	9.96 686	5	54	
7	9.57 576	31	9.60 895	36	0.39 105	9.96 681	5	53	
8	9.57 607	31	9.60 931	36	0.39 069	9.96 676	5	52	
9	9.57 638	31	9.60 967	37	0.39 033	9.96 670	6	51	**37 36 35**
10	9.57 669	31	9.61 004	36	0.38 996	9.96 665	5	**50**	1 3.7 3.6 3.5
11	9.57 700	31	9.61 040	36	0.38 960	9.96 660	5	49	2 7.4 7.2 7.0
12	9.57 731	31	9.61 076	36	0.38 924	9.96 655	5	48	3 11.1 10.8 10.5
13	9.57 762	31	9.61 112	36	0.38 888	9.96 650	5	47	4 14.8 14.4 14.0
14	9.57 793	31	9.61 148	36	0.38 852	9.96 645	5	46	5 18.5 18.0 17.5
15	9.57 824	31	9.61 184	36	0.38 816	9.96 640	6	**45**	6 22.2 21.6 21.0
16	9.57 855	30	9.61 220	36	0.38 780	9.96 634	5	44	7 25.9 25.2 24.5
17	9.57 885	31	9.61 256	36	0.38 744	9.96 629	5	43	8 29.6 28.8 28.0
18	9.57 916	31	9.61 292	36	0.38 708	9.96 624	5	42	9 33.3 32.4 31.5
19	9.57 947	31	9.61 328	36	0.38 672	9.96 619	5	41	
20	9.57 978	30	9.61 364	36	0.38 636	9.96 614	6	**40**	
21	9.58 008	31	9.61 400	36	0.38 600	9.96 608	5	39	
22	9.58 039	31	9.61 436	36	0.38 564	9.96 603	5	38	
23	9.58 070	31	9.61 472	36	0.38 528	9.96 598	5	37	
24	9.58 101	30	9.61 508	36	0.38 492	9.96 593	5	36	
25	9.58 131	31	9.61 544	35	0.38 456	9.96 588	6	**35**	
26	9.58 162	30	9.61 579	36	0.38 421	9.96 582	5	34	**32 31 30**
27	9.58 192	31	9.61 615	36	0.38 385	9.96 577	5	33	
28	9.58 223	30	9.61 651	36	0.38 349	9.96 572	5	32	1 3.2 3.1 3.0
29	9.58 253	31	9.61 687	35	0.38 313	9.96 567	5	31	2 6.4 6.2 6.0
30	9.58 284	30	9.61 722	36	0.38 278	9.96 562	6	**30**	3 9.6 9.3 9.0
31	9.58 314	31	9.61 758	36	0.38 242	9.96 556	6	29	4 12.8 12.4 12.0
32	9.58 345	30	9.61 794	36	0.38 206	9.96 551	5	28	5 16.0 15.5 15.0
33	9.58 375	31	9.61 830	36	0.38 170	9.96 546	5	27	6 19.2 18.6 18.0
34	9.58 406	30	9.61 865	35	0.38 135	9.96 541	5	26	7 22.4 21.7 21.0
35	9.58 436	31	9.61 901	36	0.38 099	9.96 535	6	**25**	8 25.6 24.8 24.0
36	9.58 467	30	9.61 936	35	0.38 064	9.96 530	5	24	9 28.8 27.9 27.0
37	9.58 497	30	9.61 972	36	0.38 028	9.96 525	5	23	
38	9.58 527	30	9.62 008	36	0.37 992	9.96 520	5	22	
39	9.58 557	30	9.62 043	35	0.37 957	9.96 514	6	21	
40	9.58 588	31	9.62 079	36	0.37 921	9.96 509	5	**20**	
41	9.58 618	30	9.62 114	35	0.37 886	9.96 504	5	19	
42	9.58 648	30	9.62 150	36	0.37 850	9.96 498	6	18	
43	9.58 678	30	9.62 185	35	0.37 815	9.96 493	5	17	
44	9.58 709	31	9.62 221	36	0.37 779	9.96 488	5	16	**29 6 5**
45	9.58 739	30	9.62 256	35	0.37 744	9.96 483	5	**15**	1 2.9 0.6 0.5
46	9.58 769	30	9.62 292	36	0.37 708	9.96 477	6	14	2 5.8 1.2 1.0
47	9.58 799	30	9.62 327	35	0.37 673	9.96 472	5	13	3 8.7 1.8 1.5
48	9.58 829	30	9.62 362	35	0.37 638	9.96 467	5	12	4 11.6 2.4 2.0
49	9.58 859	30	9.62 398	36	0.37 602	9.96 461	6	11	5 14.5 3.0 2.5
50	9.58 889	30	9.62 433	35	0.37 567	9.96 456	5	**10**	6 17.4 3.6 3.0
51	9.58 919	30	9.62 468	35	0.37 532	9.96 451	5	9	7 20.3 4.2 3.5
52	9.58 949	30	9.62 504	36	0.37 496	9.96 445	6	8	8 23.2 4.8 4.0
53	9.58 979	30	9.62 539	35	0.37 461	9.96 440	5	7	9 26.1 5.4 4.5
54	9.59 009	30	9.62 574	35	0.37 426	9.96 435	5	6	
55	9.59 039	30	9.62 609	35	0.37 391	9.96 429	6	**5**	
56	9.59 069	29	9.62 645	36	0.37 355	9.96 424	5	4	
57	9.59 098	30	9.62 680	35	0.37 320	9.96 419	5	3	
58	9.59 128	30	9.62 715	35	0.37 285	9.96 413	6	2	
59	9.59 158	30	9.62 750	35	0.37 250	9.96 408	5	1	
60	9.59 188		9.62 785		0.37 215	9.96 403		**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

67°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.59 188		9.62 785		0.37 215	9.96 403		**60**	
1	9.59 218	30	9.62 820	35	0.37 180	9.96 397	6	59	
2	9.59 247	29	9.62 855	35	0.37 145	9.96 392	5	58	
3	9.59 277	30	9.62 890	35	0.37 110	9.96 387	5	57	
4	9.59 307	30	9.62 926	36	0.37 074	9.96 381	6	56	
		29		35			5		
5	9.59 336		9.62 961		0.37 039	9.96 376		**55**	
6	9.59 366	30	9.62 996	35	0.37 004	9.96 370	6	54	
7	9.59 396	30	9.63 031	35	0.36 969	9.96 365	5	53	
8	9.59 425	29	9.63 066	35	0.36 934	9.96 360	5	52	
9	9.59 455	30	9.63 101	35	0.36 899	9.96 354	6	51	**36 35 34**
		29		34			5		
10	9.59 484		9.63 135		0.36 865	9.96 349		**50**	1 3.6 3.5 3.4
11	9.59 514	30	9.63 170	35	0.36 830	9.96 343	6	49	2 7.2 7.0 6.8
12	9.59 543	29	9.63 205	35	0.36 795	9.96 338	5	48	3 10.8 10.5 10.2
13	9.59 573	30	9.63 240	35	0.36 760	9.96 333	5	47	4 14.4 14.0 13.6
14	9.59 602	29	9.63 275	35	0.36 725	9.96 327	6	46	5 18.0 17.5 17.0
		30		35			5		6 21.6 21.0 20.4
15	9.59 632		9.63 310		0.36 690	9.96 322		**45**	7 25.2 24.5 23.8
16	9.59 661	29	9.63 345	35	0.36 655	9.96 316	6	44	8 28.8 28.0 27.2
17	9.59 690	29	9.63 379	34	0.36 621	9.96 311	5	43	9 32.4 31.5 30.6
18	9.59 720	30	9.63 414	35	0.36 586	9.96 305	6	42	
19	9.59 749	29	9.63 449	35	0.36 551	9.96 300	5	41	
		29		35			6		
20	9.59 778		9.63 484		0.36 516	9.96 294		**40**	
21	9.59 808	30	9.63 519	35	0.36 481	9.96 289	5	39	
22	9.59 837	29	9.63 553	34	0.36 447	9.96 284	5	38	
23	9.59 866	29	9.63 588	35	0.36 412	9.96 278	6	37	
24	9.59 895	29	9.63 623	35	0.36 377	9.96 273	5	36	
		29		34			6		
25	9.59 924		9.63 657		0.36 343	9.96 267		**35**	
26	9.59 954	30	9.63 692	35	0.36 308	9.96 262	5	34	**30 29 28**
27	9.59 983	29	9.63 726	34	0.36 274	9.96 256	6	33	
28	9.60 012	29	9.63 761	35	0.36 239	9.96 251	5	32	1 3.0 2.9 2.8
29	9.60 041	29	9.63 796	35	0.36 204	9.96 245	6	31	2 6.0 5.8 5.6
		29		34			5		3 9.0 8.7 8.4
30	9.60 070		9.63 830		0.36 170	9.96 240		**30**	4 12.0 11.6 11.2
31	9.60 099	29	9.63 865	35	0.36 135	9.96 234	6	29	5 15.0 14.5 14.0
32	9.60 128	29	9.63 899	34	0.36 101	9.96 229	5	28	6 18.0 17.4 16.8
33	9.60 157	29	9.63 934	35	0.36 066	9.96 223	6	27	7 21.0 20.3 19.6
34	9.60 186	29	9.63 968	34	0.36 032	9.96 218	5	26	8 24.0 23.2 22.4
		29		35			6		9 27.0 26.1 25.2
35	9.60 215		9.64 003		0.35 997	9.96 212		**25**	
36	9.60 244	29	9.64 037	34	0.35 963	9.96 207	5	24	
37	9.60 273	29	9.64 072	35	0.35 928	9.96 201	6	23	
38	9.60 302	29	9.64 106	34	0.35 894	9.96 196	5	22	
39	9.60 331	29	9.64 140	34	0.35 860	9.96 190	6	21	
		28		35			6		
40	9.60 359		9.64 175		0.35 825	9.96 185		**20**	
41	9.60 388	29	9.64 209	34	0.35 791	9.96 179	6	19	
42	9.60 417	29	9.64 243	34	0.35 757	9.96 174	5	18	
43	9.60 446	29	9.64 278	35	0.35 722	9.96 168	6	17	
44	9.60 474	28	9.64 312	34	0.35 688	9.96 162	6	16	**6 5**
		29		34			5		
45	9.60 503		9.64 346		0.35 654	9.96 157		**15**	1 0.6 0.5
46	9.60 532	29	9.64 381	35	0.35 619	9.96 151	6	14	2 1.2 1.0
47	9.60 561	29	9.64 415	34	0.35 585	9.96 146	5	13	3 1.8 1.5
48	9.60 589	28	9.64 449	34	0.35 551	9.96 140	6	12	4 2.4 2.0
49	9.60 618	29	9.64 483	34	0.35 517	9.96 135	5	11	5 3.0 2.5
		28		34			6		6 3.6 3.0
50	9.60 646		9.64 517		0.35 483	9.96 129		**10**	7 4.2 3.5
51	9.60 675	29	9.64 552	35	0.35 448	9.96 123	6	9	8 4.8 4.0
52	9.60 704	29	9.64 586	34	0.35 414	9.96 118	5	8	9 5.4 4.5
53	9.60 732	28	9.64 620	34	0.35 380	9.96 112	6	7	
54	9.60 761	29	9.64 654	34	0.35 346	9.96 107	5	6	
		28		34			6		
55	9.60 789		9.64 688		0.35 312	9.96 101		**5**	
56	9.60 818	29	9.64 722	34	0.35 278	9.96 095	6	4	
57	9.60 846	28	9.64 756	34	0.35 244	9.96 090	5	3	
58	9.60 875	29	9.64 790	34	0.35 210	9.96 084	6	2	
59	9.60 903	28	9.64 824	34	0.35 176	9.96 079	5	1	
		28		34			6		
60	9.60 931		9.64 858		0.35 142	9.96 073		**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

66°

自此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

24°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d	′	PP
0	9.60 931	29	9.64 858	34	0.35 142	9.96 073	6	**60**	
1	9.60 960	28	9.64 892	34	0.35 108	9.96 067	6	59	
2	9.60 988	28	9.64 926	34	0.35 074	9.96 062	5	58	
3	9.61 016	28	9.64 960	34	0.35 040	9.96 056	6	57	
4	9.61 045	29	9.64 994	34	0.35 006	9.96 050	6	56	
		28		34			5		
5	9.61 073	28	9.65 028	34	0.34 972	9.96 045	6	**55**	
6	9.61 101	28	9.65 062	34	0.34 938	9.96 039	5	54	
7	9.61 129	29	9.65 096	34	0.34 904	9.96 034	6	53	
8	9.61 158	28	9.65 130	34	0.34 870	9.96 028	6	52	
9	9.61 186	28	9.65 164	34	0.34 836	9.96 022	6	51	**34 33**
		28		33			5		
10	9.61 214	28	9.65 197	34	0.34 803	9.96 017	6	**50**	1 3.4 3.3
11	9.61 242	28	9.65 231	34	0.34 769	9.96 011	6	19	2 6.8 6.6
12	9.61 270	28	9.65 265	34	0.34 735	9.96 005	5	48	3 10.2 9.9
13	9.61 298	28	9.65 299	34	0.34 701	9.96 000	6	47	4 13.6 13.2
14	9.61 326	28	9.65 333	34	0.34 667	9.95 994	6	46	5 17.0 16.5
		28		33			6		6 20.4 19.8
15	9.61 354	28	9.65 366	34	0.34 634	9.95 988	6	**45**	7 23.8 23.1
16	9.61 382	29	9.65 400	34	0.34 600	9.95 982	5	44	8 27.2 26.4
17	9.61 411	27	9.65 434	33	0.34 566	9.95 977	6	43	9 30.6 29.7
18	9.61 438	28	9.65 467	34	0.34 533	9.95 971	6	42	
19	9.61 466	28	9.65 501	34	0.34 499	9.95 965	6	41	
		28		34			5		
20	9.61 494	28	9.65 535	33	0.34 465	9.95 960	6	**40**	
21	9.61 522	28	9.65 568	34	0.34 432	9.95 954	6	39	
22	9.61 550	28	9.65 602	34	0.34 398	9.95 948	6	38	
23	9.61 578	28	9.65 636	34	0.34 364	9.95 942	5	37	
24	9.61 606	28	9.65 669	33	0.34 331	9.95 937	6	36	
		28		34			6		
25	9.61 634	28	9.65 703	33	0.34 297	9.95 931	6	**35**	**29 28 27**
26	9.61 662	27	9.65 736	34	0.34 264	9.95 925	5	34	
27	9.61 689	28	9.65 770	33	0.34 230	9.95 920	6	33	
28	9.61 717	28	9.65 803	34	0.34 197	9.95 914	6	32	1 2.9 2.8 2.7
29	9.61 745	28	9.65 837	33	0.34 163	9.95 908	6	31	2 5.8 5.6 5.4
		28		34			6		3 8.7 8.4 8.1
30	9.61 773	27	9.65 870	33	0.34 130	9.95 902	5	**30**	4 11.6 11.2 10.8
31	9.61 800	28	9.65 904	33	0.34 096	9.95 897	6	29	5 14.5 14.0 13.5
32	9.61 828	28	9.65 937	34	0.34 063	9.95 891	6	28	6 17.4 16.8 16.2
33	9.61 856	27	9.65 971	33	0.34 029	9.95 885	6	27	7 20.3 19.6 18.9
34	9.61 883	28	9.66 004	33	0.33 996	9.95 879	6	26	8 23.2 22.4 21.6
		28		34			6		9 26.1 25.2 24.3
35	9.61 911	28	9.66 038	33	0.33 962	9.95 873	5	**25**	
36	9.61 939	27	9.66 071	33	0.33 929	9.95 868	6	24	
37	9.61 966	28	9.66 104	34	0.33 896	9.95 862	6	23	
38	9.61 994	27	9.66 138	33	0.33 862	9.95 856	6	22	
39	9.62 021	28	9.66 171	33	0.33 829	9.95 850	6	21	
		27		33			6		
40	9.62 049	28	9.66 204	34	0.33 796	9.95 844	5	**20**	
41	9.62 076	28	9.66 238	33	0.33 762	9.95 839	6	19	
42	9.62 104	27	9.66 271	33	0.33 729	9.95 833	6	18	
43	9.62 131	28	9.66 304	33	0.33 696	9.95 827	6	17	
44	9.62 159	27	9.66 337	33	0.33 663	9.95 821	6	16	**6 5**
		28		34			6		
45	9.62 186	27	9.66 371	33	0.33 629	9.95 815	5	**15**	1 0.6 0.5
46	9.62 214	27	9.66 404	33	0.33 596	9.95 810	6	14	2 1.2 1.0
47	9.62 241	27	9.66 437	33	0.33 563	9.95 804	6	13	3 1.8 1.5
48	9.62 268	28	9.66 470	33	0.33 530	9.95 798	6	12	4 2.4 2.0
49	9.62 296	27	9.66 503	33	0.33 497	9.95 792	6	11	5 3.0 2.5
		27		34			6		6 3.6 3.0
50	9.62 323	27	9.66 537	33	0.33 463	9.95 786	6	**10**	7 4.2 3.5
51	9.62 350	27	9.66 570	33	0.33 430	9.95 780	5	9	8 4.8 4.0
52	9.62 377	28	9.66 603	33	0.33 397	9.95 775	6	8	9 5.4 4.5
53	9.62 405	27	9.66 636	33	0.33 364	9.95 769	6	7	
54	9.62 432	27	9.66 669	33	0.33 331	9.95 763	6	6	
		27		33			6		
55	9.62 459	27	9.66 702	33	0.33 298	9.95 757	6	**5**	
56	9.62 486	27	9.66 735	33	0.33 265	9.95 751	6	4	
57	9.62 513	28	9.66 768	33	0.33 232	9.95 745	6	3	
58	9.62 541	27	9.66 801	33	0.33 199	9.95 739	6	2	
59	9.62 568	27	9.66 834	33	0.33 166	9.95 733	6	1	
60	9.62 595		9.66 867		0.33 133	9.95 728	5	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

65°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.62 595		9.66 867		0.33 133	9.95 728		**60**	
1	9.62 622	27	9.66 900	33	0.33 100	9.95 722	6	59	
2	9.62 649	27	9.66 933	33	0.33 067	9.95 716	6	58	
3	9.62 676	27	9.66 966	33	0.33 034	9.95 710	6	57	
4	9.62 703	27	9.66 999	33	0.33 001	9.95 704	6	56	
5	9.62 730		9.67 032		0.32 968	9.95 698		**55**	
6	9.62 757	27	9.67 065	33	0.32 935	9.95 692	6	54	
7	9.62 784	27	9.67 098	33	0.32 902	9.95 686	6	53	
8	9.62 811	27	9.67 131	33	0.32 869	9.95 680	6	52	
9	9.62 838	27	9.67 163	32	0.32 837	9.95 674	6	51	**33　32**
10	9.62 865		9.67 196		0.32 804	9.95 668		**50**	1 | 3.3　3.2
11	9.62 892	27	9.67 229	33	0.32 771	9.95 663	5	49	2 | 6.6　6.4
12	9.62 918	26	9.67 262	33	0.32 738	9.95 657	6	48	3 | 9.9　9.6
13	9.62 945	27	9.67 295	33	0.32 705	9.95 651	6	47	4 | 13.2　12.8
14	9.62 972	27	9.67 327	32	0.32 673	9.95 645	6	46	5 | 16.5　16.0
15	9.62 999		9.67 360		0.32 640	9.95 639		**45**	6 | 19.8　19.2
16	9.63 026	27	9.67 393	33	0.32 607	9.95 633	6	44	7 | 23.1　22.4
17	9.63 052	26	9.67 426	33	0.32 574	9.95 627	6	43	8 | 26.4　25.6
18	9.63 079	27	9.67 458	32	0.32 542	9.95 621	6	42	9 | 29.7　28.8
19	9.63 106	27	9.67 491	33	0.32 509	9.95 615	6	41	
20	9.63 133		9.67 524		0.32 476	9.95 609		**40**	
21	9.63 159	26	9.67 556	32	0.32 444	9.95 603	6	39	
22	9.63 186	27	9.67 589	33	0.32 411	9.95 597	6	38	
23	9.63 213	27	9.67 622	33	0.32 378	9.95 591	6	37	
24	9.63 239	26	9.67 654	32	0.32 346	9.95 585	6	36	
25	9.63 266		9.67 687		0.32 313	9.95 579		**35**	
26	9.63 292	26	9.67 719	32	0.32 281	9.95 573	6	34	**27　26**
27	9.63 319	27	9.67 752	33	0.32 248	9.95 567	6	33	
28	9.63 345	26	9.67 785	33	0.32 215	9.95 561	6	32	1 | 2.7　2.6
29	9.63 372	27	9.67 817	32	0.32 183	9.95 555	6	31	2 | 5.4　5.2
30	9.63 398		9.67 850		0.32 150	9.95 549		**30**	3 | 8.1　7.8
31	9.63 425	27	9.67 882	32	0.32 118	9.95 543	6	29	4 | 10.8　10.4
32	9.63 451	26	9.67 915	33	0.32 085	9.95 537	6	28	5 | 13.5　13.0
33	9.63 478	27	9.67 947	32	0.32 053	9.95 531	6	27	6 | 16.2　15.6
34	9.63 504	26	9.67 980	33	0.32 020	9.95 525	6	26	7 | 18.9　18.2
35	9.63 531		9.68 012		0.31 988	9.95 519		**25**	8 | 21.6　20.8
36	9.63 557	26	9.68 044	32	0.31 956	9.95 513	6	24	9 | 24.3　23.4
37	9.63 583	26	9.68 077	33	0.31 923	9.95 507	6	23	
38	9.63 610	27	9.68 109	32	0.31 891	9.95 500	7	22	
39	9.63 636	26	9.68 142	33	0.31 858	9.95 494	6	21	
40	9.63 662		9.68 174		0.31 826	9.95 488		**20**	
41	9.63 689	27	9.68 206	32	0.31 794	9.95 482	6	19	
42	9.63 715	26	9.68 239	33	0.31 761	9.95 476	6	18	
43	9.63 741	26	9.68 271	32	0.31 729	9.95 470	6	17	
44	9.63 767	26	9.68 303	32	0.31 697	9.95 464	6	16	**7　6　5**
45	9.63 794		9.68 336		0.31 664	9.95 458		**15**	1 | 0.7　0.6　0.5
46	9.63 820	26	9.68 368	32	0.31 632	9.95 452	6	14	2 | 1.4　1.2　1.0
47	9.63 846	26	9.68 400	32	0.31 600	9.95 446	6	13	3 | 2.1　1.8　1.5
48	9.63 872	26	9.68 432	32	0.31 568	9.95 440	6	12	4 | 2.8　2.4　2.0
49	9.63 898	26	9.68 465	33	0.31 535	9.95 434	6	11	5 | 3.5　3.0　2.5
50	9.63 924		9.68 497		0.31 503	9.95 427		**10**	6 | 4.2　3.6　3.0
51	9.63 950	26	9.68 529	32	0.31 471	9.95 421	6	9	7 | 4.9　4.2　3.5
52	9.63 976	26	9.68 561	32	0.31 439	9.95 415	6	8	8 | 5.6　4.8　4.0
53	9.64 002	26	9.68 593	32	0.31 407	9.95 409	6	7	9 | 6.3　5.4　4.5
54	9.64 028	26	9.68 626	33	0.31 374	9.95 403	6	6	
55	9.64 054		9.68 658		0.31 342	9.95 397		**5**	
56	9.64 080	26	9.68 690	32	0.31 310	9.95 391	6	4	
57	9.64 106	26	9.68 722	32	0.31 278	9.95 384	7	3	
58	9.64 132	26	9.68 754	32	0.31 246	9.95 378	6	2	
59	9.64 158	26	9.68 786	32	0.31 214	9.95 372	6	1	
60	9.64 184		9.68 818		0.31 182	9.95 366	6	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

26°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.64 184		9.68 818		0.31 182	9.95 366		60	
1	9.64 210	26	9.68 850	32	0.31 150	9.95 360	6	59	
2	9.64 236	26	9.68 882	32	0.31 118	9.95 354	6	58	
3	9.64 262	26	9.68 914	32	0.31 086	9.95 348	6	57	
4	9.64 288	26	9.68 946	32	0.31 054	9.95 341	7	56	
5	9.64 313	25	9.68 978	32	0.31 022	9.95 335	6	55	
6	9.64 339	26	9.69 010	32	0.30 990	9.95 329	6	54	
7	9.64 365	26	9.69 042	32	0.30 958	9.95 323	6	53	
8	9.64 391	26	9.69 074	32	0.30 926	9.95 317	6	52	
9	9.64 417	26	9.69 106	32	0.30 894	9.95 310	7	51	
10	9.64 442	25	9.69 138	32	0.30 862	9.95 304	6	50	
11	9.64 468	26	9.69 170	32	0.30 830	9.95 298	6	49	
12	9.64 494	26	9.69 202	32	0.30 798	9.95 292	6	48	
13	9.64 519	25	9.69 234	32	0.30 766	9.95 286	6	47	
14	9.64 545	26	9.69 266	32	0.30 734	9.95 279	7	46	
15	9.64 571	26	9.69 298	31	0.30 702	9.95 273	6	45	
16	9.64 596	25	9.69 329	32	0.30 671	9.95 267	6	44	
17	9.64 622	26	9.69 361	32	0.30 639	9.95 261	6	43	
18	9.64 647	25	9.69 393	32	0.30 607	9.95 254	6	42	
19	9.64 673	26	9.69 425	32	0.30 575	9.95 248	6	41	
20	9.64 698	25	9.69 457	31	0.30 543	9.95 242	6	40	
21	9.64 724	26	9.69 488	32	0.30 512	9.95 236	7	39	
22	9.64 749	25	9.69 520	32	0.30 480	9.95 229	6	38	
23	9.64 775	26	9.69 552	32	0.30 448	9.95 223	6	37	
24	9.64 800	25	9.69 584	32	0.30 416	9.95 217	6	36	
25	9.64 826	26	9.69 615	31	0.30 385	9.95 211	7	35	
26	9.64 851	25	9.69 647	32	0.30 353	9.95 204	6	34	
27	9.64 877	26	9.69 679	32	0.30 321	9.95 198	6	33	
28	9.64 902	25	9.69 710	31	0.30 290	9.95 192	6	32	
29	9.64 927	25	9.69 742	32	0.30 258	9.95 185	7	31	
30	9.64 953	26	9.69 774	32	0.30 226	9.95 179	6	30	
31	9.64 978	25	9.69 805	31	0.30 195	9.95 173	6	29	
32	9.65 003	25	9.69 837	32	0.30 163	9.95 167	6	28	
33	9.65 029	26	9.69 868	31	0.30 132	9.95 160	7	27	
34	9.65 054	25	9.69 900	32	0.30 100	9.95 154	6	26	
35	9.65 079	25	9.69 932	32	0.30 068	9.95 148	6	25	
36	9.65 104	25	9.69 963	31	0.30 037	9.95 141	7	24	
37	9.65 130	26	9.69 995	32	0.30 005	9.95 135	6	23	
38	9.65 155	25	9.70 026	31	0.29 974	9.95 129	6	22	
39	9.65 180	25	9.70 058	32	0.29 942	9.95 122	7	21	
40	9.65 205	25	9.70 089	31	0.29 911	9.95 116	6	20	
41	9.65 230	25	9.70 121	32	0.29 879	9.95 110	6	19	
42	9.65 255	25	9.70 152	31	0.29 848	9.95 103	7	18	
43	9.65 281	26	9.70 184	32	0.29 816	9.95 097	6	17	
44	9.65 306	25	9.70 215	31	0.29 785	9.95 090	7	16	
45	9.65 331	25	9.70 247	32	0.29 753	9.95 084	6	15	
46	9.65 356	25	9.70 278	31	0.29 722	9.95 078	6	14	
47	9.65 381	25	9.70 309	31	0.29 691	9.95 071	7	13	
48	9.65 406	25	9.70 341	32	0.29 659	9.95 065	6	12	
49	9.65 431	25	9.70 372	31	0.29 628	9.95 059	6	11	
50	9.65 456	25	9.70 404	32	0.29 596	9.95 052	7	10	
51	9.65 481	25	9.70 435	31	0.29 565	9.95 046	6	9	
52	9.65 506	25	9.70 466	31	0.29 534	9.95 039	7	8	
53	9.65 531	25	9.70 498	32	0.29 502	9.95 033	6	7	
54	9.65 556	25	9.70 529	31	0.29 471	9.95 027	6	6	
55	9.65 580	24	9.70 560	31	0.29 440	9.95 020	7	5	
56	9.65 605	25	9.70 592	32	0.29 408	9.95 014	6	4	
57	9.65 630	25	9.70 623	31	0.29 377	9.95 007	7	3	
58	9.65 655	25	9.70 654	31	0.29 346	9.95 001	6	2	
59	9.65 680	25	9.70 685	31	0.29 315	9.94 995	6	1	
60	9.65 705		9.70 717	32	0.29 283	9.94 988	7	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

	32	31
1	3.2	3.1
2	6.4	6.2
3	9.6	9.3
4	12.8	12.4
5	16.0	15.5
6	19.2	18.6
7	22.4	21.7
8	25.6	24.8
9	28.8	27.9

	26	25	24
1	2.6	2.5	2.4
2	5.2	5.0	4.8
3	7.8	7.5	7.2
4	10.4	10.0	9.6
5	13.0	12.5	12.0
6	15.6	15.0	14.4
7	18.2	17.5	16.8
8	20.8	20.0	19.2
9	23.4	22.5	21.6

	7	6
1	0.7	0.6
2	1.4	1.2
3	2.1	1.8
4	2.8	2.4
5	3.5	3.0
6	4.2	3.6
7	4.9	4.2
8	5.6	4.8
9	6.3	5.4

63°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.65 705		9.70 717		0.29 283	9.94 988		60	
1	9.65 729	24	9.70 748	31	0.29 252	9.94 982	6	59	
2	9.65 754	25	9.70 779	31	0.29 221	9.94 975	7	58	
3	9.65 779	25	9.70 810	31	0.29 190	9.94 969	6	57	
4	9.65 804	25	9.70 841	31	0.29 159	9.94 962	7	56	
		24		32			6		
5	9.65 828	25	9.70 873	31	0.29 127	9.94 956	7	55	
6	9.65 853	25	9.70 904	31	0.29 096	9.94 949	6	54	
7	9.65 878	24	9.70 935	31	0.29 065	9.94 943	7	53	
8	9.65 902	25	9.70 966	31	0.29 034	9.94 936	6	52	
9	9.65 927	25	9.70 997	31	0.29 003	9.94 930	6	51	32 31 30
10	9.65 952	24	9.71 028	31	0.28 972	9.94 923	7	50	1 3.2 3.1 3.0
11	9.65 976	25	9.71 059	31	0.28 941	9.94 917	6	49	2 6.4 6.2 6.0
12	9.66 001	24	9.71 090	31	0.28 910	9.94 911	6	48	3 9.6 9.3 9.0
13	9.66 025	25	9.71 121	32	0.28 879	9.94 904	7	47	4 12.8 12.4 12.0
14	9.66 050	25	9.71 153	31	0.28 847	9.94 898	6	46	5 16.9 15.5 15.0
15	9.66 075	24	9 71 184	31	0.28 816	9.94 891	7	45	6 19.2 18.6 18.0
16	9.66 099	25	9.71 215	31	0.28 785	9.94 885	6	44	7 22.4 21.7 21.0
17	9.66 124	24	9.71 246	31	0.28 754	9.94 878	7	43	8 25.6 24.8 24.0
18	9.66 148	25	9.71 277	31	0.28 723	9.94 871	7	42	9 28.8 27.9 27.0
19	9.66 173	24	9.71 308	31	0.28 692	9.94 865	6	41	
20	9.66 197	24	9.71 339	31	0.28 661	9.94 858	7	40	
21	9.66 221	25	9.71 370	31	0.28 630	9.94 852	6	39	
22	9.66 246	24	9.71 401	30	0.28 599	9.94 845	7	38	
23	9.66 270	25	9.71 431	31	0.28 569	9.94 839	6	37	
24	9.66 295	24	9.71 462	31	0.28 538	9.94 832	7	36	
25	9.66 319	24	9.71 493	31	0.28 507	9.94 826	6	35	
26	9.66 343	25	9.71 524	31	0.28 476	9.94 819	7	34	25 24 23
27	9.66 368	24	9.71 555	31	0.28 445	9.94 813	6	33	
28	9.66 392	24	9.71 586	31	0.28 414	9.94 806	7	32	1 2.5 2.4 2.3
29	9.66 416	25	9.71 617	31	0.28 383	9.94 799	6	31	2 5.0 4.8 4.6
30	9.66 441	24	9.71 648	31	0.28 352	9.94 793	7	30	3 7.5 7.2 6.9
31	9.66 465	24	9.71 679	30	0.28 321	9.94 786	7	29	4 10.0 9.6 9.2
32	9.66 489	24	9.71 709	31	0.28 291	9.94 780	6	28	5 12.5 12.0 11.5
33	9.66 513	24	9.71 740	31	0.28 260	9.94 773	7	27	6 15.0 14.4 13.8
34	9.66 537	24	9.71 771	31	0.28 229	9.94 767	6	26	7 17.5 16.8 16.1
35	9.66 562	25	9.71 802	31	0.28 198	9.94 760	7	25	8 20.0 19.2 18.4
36	9.66 586	24	9.71 833	31	0.28 167	9.94 753	7	24	9 22.5 21.6 20.7
37	9.66 610	24	9.71 863	30	0.28 137	9.94 747	6	23	
38	9.66 634	24	9.71 894	31	0.28 106	9.94 740	7	22	
39	9.66 658	24	9.71 925	31	0.28 075	9.94 734	6	21	
40	9.66 682	24	9.71 955	30	0.28 045	9.94 727	7	20	
41	9.66 706	24	9.71 986	31	0.28 014	9.94 720	7	19	
42	9.66 731	25	9.72 017	31	0.27 983	9.94 714	6	18	
43	9.66 755	24	9.72 048	31	0.27 952	9.94 707	7	17	
44	9.66 779	24	9 72 078	30	0.27 922	9.94 700	7	16	7 6
45	9.66 803	24	9.72 109	31	0.27 891	9.94 694	6	15	1 0.7 0.6
46	9.66 827	24	9.72 140	31	0.27 860	9.94 687	7	14	2 1.4 1.2
47	9.66 851	24	9.72 170	30	0.27 830	9.94 680	7	13	3 2.1 1.8
48	9.66 875	24	9.72 201	31	0.27 799	9.94 674	6	12	4 2.8 2.4
49	9.66 899	24	9.72 231	30	0.27 769	9.94 667	7	11	5 3.5 3.0
50	9.66 922	23	9.72 262	31	0.27 738	9.94 660	7	10	6 4.2 3.6
51	9.66 946	24	9.72 293	31	0.27 707	9 94 654	6	9	7 4.9 4.2
52	9.66 970	24	9.72 323	30	0.27 677	9.94 647	7	8	8 5.6 4.8
53	9.66 994	24	9.72 354	31	0.27 646	9.94 640	7	7	9 6.3 5.4
54	9.67 018	24	9.72 384	30	0.27 616	9.94 634	6	6	
55	9.67 042	24	9.72 415	31	0.27 585	9.94 627	7	5	
56	9.67 066	24	9.72 445	30	0.27 555	9.94 620	7	4	
57	9.67 090	24	9.72 476	31	0.27 524	9.94 614	6	3	
58	9.67 113	23	9.72 506	30	0.27 494	9.94 607	7	2	
59	9.67 137	24	9.72 537	31	0.27 463	9.94 600	7	1	
60	9.67 161	24	9.72 567	30	0.27 433	9.94 593	7	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

28°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.67 161	24	9.72 567	31	0.27 433	9.94 593	6	60	
1	9.67 185	23	9.72 598	30	0.27 402	9.94 587	7	59	
2	9.67 208	24	9.72 628	31	0.27 372	9.94 580	7	58	
3	9.67 232	24	9.72 659	30	0.27 341	9.94 573	6	57	
4	9.67 256	24	9.72 689	31	0.27 311	9.94 567	7	56	
5	9.67 280	23	9.72 720	30	0.27 280	9.94 560	7	55	
6	9.67 303	24	9.72 750	30	0.27 250	9.94 553	7	54	
7	9.67 327	23	9.72 780	31	0.27 220	9.94 546	6	53	
8	9.67 350	24	9.72 811	30	0.27 189	9.94 540	7	52	
9	9.67 374	24	9.72 841	31	0.27 159	9.94 533	7	51	**31 30 29**
10	9.67 398	23	9.72 872	30	0.27 128	9.94 526	7	50	1 3.1 3.0 2.9
11	9.67 421	24	9.72 902	30	0.27 098	9.94 519	7	49	2 6.2 6.0 5.8
12	9.67 445	23	9.72 932	31	0.27 068	9.94 513	6	48	3 9.3 9.0 8.7
13	9.67 468	24	9.72 963	30	0.27 037	9.94 506	7	47	4 12.4 12.0 11.6
14	9.67 492	23	9.72 993	30	0.27 007	9.94 499	7	46	5 15.5 15.0 14.5
15	9.67 515	24	9.73 023	31	0.26 977	9.94 492	7	45	6 18.6 18.0 17.4
16	9.67 539	23	9.73 054	30	0.26 946	9.94 485	7	44	7 21.7 21.0 20.3
17	9.67 562	24	9.73 084	30	0.26 916	9.94 479	6	43	8 24.8 24.0 23.2
18	9.67 586	23	9.73 114	30	0.26 886	9.94 472	7	42	9 27.9 27.0 26.1
19	9.67 609	24	9.73 144	30	0.26 856	9.94 465	7	41	
20	9.67 633	23	9.73 175	31	0.26 825	9.94 458	7	40	
21	9.67 656	24	9.73 205	30	0.26 795	9.94 451	7	39	
22	9.67 680	23	9.73 235	30	0.26 765	9.94 445	6	38	
23	9.67 703	23	9.73 265	30	0.26 735	9.94 438	7	37	
24	9.67 726	24	9.73 295	30	0.26 705	9.94 431	7	36	
25	9.67 750	23	9.73 326	31	0.26 674	9.94 424	7	35	
26	9.67 773	23	9.73 356	30	0.26 644	9.94 417	7	34	**24 23 22**
27	9.67 796	24	9.73 386	30	0.26 614	9.94 410	7	33	
28	9.67 820	23	9.73 416	30	0.26 584	9.94 404	6	32	1 2.4 2.3 2.2
29	9.67 843	23	9.73 446	30	0.26 554	9.94 397	7	31	2 4.8 4.6 4.4
30	9.67 866	24	9.73 476	30	0.26 524	9.94 390	7	30	3 7.2 6.9 6.6
31	9.67 890	23	9.73 507	31	0.26 493	9.94 383	7	29	4 9.6 9.2 8.8
32	9.67 913	23	9.73 537	30	0.26 463	9.94 376	7	28	5 12.0 11.5 11.0
33	9.67 936	23	9.73 567	30	0.26 433	9.94 369	7	27	6 14.4 13.8 13.2
34	9.67 959	23	9.73 597	30	0.26 403	9.94 362	7	26	7 16.8 16.1 15.4
35	9.67 982	24	9.73 627	30	0.26 373	9.94 355	6	25	8 19.2 18.4 17.6
36	9.68 006	23	9.73 657	30	0.26 343	9.94 349	7	24	9 21.6 20.7 19.8
37	9.68 029	23	9.73 687	30	0.26 313	9.94 342	7	23	
38	9.68 052	23	9.73 717	30	0.26 283	9.94 335	7	22	
39	9.68 075	23	9.73 747	30	0.26 253	9.94 328	7	21	
40	9.68 098	23	9.73 777	30	0.26 223	9.94 321	7	20	
41	9.68 121	23	9.73 807	30	0.26 193	9.94 314	7	19	
42	9.68 144	23	9.73 837	30	0.26 163	9.94 307	7	18	
43	9.68 167	23	9.73 867	30	0.26 133	9.94 300	7	17	
44	9.68 190	23	9.73 897	30	0.26 103	9.94 293	7	16	**7 6**
45	9.68 213	24	9.73 927	30	0.26 073	9.94 286	7	15	1 0.7 0.6
46	9.68 237	23	9.73 957	30	0.26 043	9.94 279	7	14	2 1.4 1.2
47	9.68 260	23	9.73 987	30	0.26 013	9.94 273	6	13	3 2.1 1.8
48	9.68 283	23	9.74 017	30	0.25 983	9.94 266	7	12	4 2.8 2.4
49	9.68 305	22	9.74 047	30	0.25 953	9.94 259	7	11	5 3.5 3.0
50	9.68 328	23	9.74 077	30	0.25 923	9.94 252	7	10	6 4.2 3.6
51	9.68 351	23	9.74 107	30	0.25 893	9.94 245	7	9	7 4.9 4.2
52	9.68 374	23	9.74 137	29	0.25 863	9.94 238	7	8	8 5.6 4.8
53	9.68 397	23	9.74 166	30	0.25 834	9.94 231	7	7	9 6.3 5.4
54	9.68 420	23	9.74 196	30	0.25 804	9.94 224	7	6	
55	9.68 443	23	9.74 226	30	0.25 774	9.94 217	7	5	
56	9.68 466	23	9.74 256	30	0.25 744	9.94 210	7	4	
57	9.68 489	23	9.74 286	30	0.25 714	9.94 203	7	3	
58	9.68 512	23	9.74 316	30	0.25 684	9.94 196	7	2	
59	9.68 534	22	9.74 345	29	0.25 655	9.94 189	7	1	
60	9.68 557	23	9.74 375	30	0.25 625	9.94 182	7	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

61°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.68 557		9.74 375		0.25 625	9.94 182		**60**	
1	9.68 580	23	9.74 405	30	0.25 595	9.94 175	7	59	
2	9.68 603	23	9.74 435	30	0.25 565	9.94 168	7	58	
3	9.68 625	22	9.74 465	30	0.25 535	9.94 161	7	57	
4	9.68 648	23	9.74 494	29	0.25 506	9.94 154	7	56	
		23		30			7		
5	9.68 671		9.74 524		0.25 476	9.94 147		**55**	
6	9.68 694	23	9.74 554	30	0.25 446	9.94 140	7	54	
7	9.68 716	22	9.74 583	29	0.25 417	9.94 133	7	53	
8	9.68 739	23	9.74 613	30	0.25 387	9.94 126	7	52	
9	9.68 762	23	9.74 643	30	0.25 357	9.94 119	7	51	
		22		30			7		
10	9.68 784		9.74 673		0.25 327	9.94 112		**50**	
11	9.68 807	23	9.74 702	29	0.25 298	9.94 105	7	49	
12	9.68 829	22	9.74 732	30	0.25 268	9.94 098	7	48	
13	9.68 852	23	9.74 762	30	0.25 238	9.94 090	8	47	
14	9.68 875	23	9.74 791	29	0.25 209	9.94 083	7	46	
		22		30			7		**30 29 23**
15	9.68 897		9.74 821		0.25 179	9.94 076		**45**	
16	9.68 920	23	9.74 851	30	0.25 149	9.94 069	7	44	1 | 3.0 2.9 2.3
17	9.68 942	22	9.74 880	29	0.25 120	9.94 062	7	43	2 | 6.0 5.8 4.6
18	9.68 965	23	9.74 910	30	0.25 090	9.94 055	7	42	3 | 9.0 8.7 6.9
19	9.68 987	22	9.74 939	29	0.25 061	9.94 048	7	41	4 | 12.0 11.6 9.2
		23		30			7		5 | 15.0 14.5 11.5
20	9.69 010		9.74 969		0.25 031	9.94 041		**40**	6 | 18.0 17.4 13.8
21	9.69 032	22	9.74 998	29	0.25 002	9.94 034	7	39	7 | 21.0 20.3 16.1
22	9.69 055	23	9.75 028	30	0.24 972	9.94 027	7	38	8 | 24.0 23.2 18.4
23	9.69 077	22	9.75 058	30	0.24 942	9.94 020	7	37	9 | 27.0 26.1 20.7
24	9.69 100	23	9.75 087	29	0.24 913	9.94 012	8	36	
		22		30			7		
25	9.69 122		9.75 117		0.24 883	9.94 005		**35**	
26	9.69 144	22	9.75 146	29	0.24 854	9.93 998	7	34	
27	9.69 167	23	9.75 176	30	0.24 824	9.93 991	7	33	
28	9.69 189	22	9.75 205	29	0.24 795	9.93 984	7	32	
29	9.69 212	23	9.75 235	30	0.24 765	9.93 977	7	31	
		22		29			7		
30	9.69 234		9.75 264		0.24 736	9.93 970		**30**	
31	9.69 256	22	9.75 294	30	0.24 706	9.93 963	7	29	
32	9.69 279	23	9.75 323	29	0.24 677	9.93 955	8	28	
33	9.69 301	22	9.75 353	30	0.24 647	9.93 948	7	27	
34	9.69 323	22	9.75 382	29	0.24 618	9.93 941	7	26	
		22		29			7		
35	9.69 345		9.75 411		0.24 589	9.93 934		**25**	
36	9.69 368	23	9.75 441	30	0.24 559	9.93 927	7	24	
37	9.69 390	22	9.75 470	29	0.24 530	9.93 920	7	23	
38	9.69 412	22	9.75 500	30	0.24 500	9.93 912	8	22	**22 8 7**
39	9.69 434	22	9.75 529	29	0.24 471	9.93 905	7	21	
		22		29			7		1 | 2.2 0.8 0.7
40	9.69 456		9.75 558		0.24 442	9.93 898		**20**	2 | 4.4 1.6 1.4
41	9.69 479	23	9.75 588	30	0.24 412	9.93 891	7	19	3 | 6.6 2.4 2.1
42	9.69 501	22	9.75 617	29	0.24 383	9.93 884	7	18	4 | 8.8 3.2 2.8
43	9.69 523	22	9.75 647	30	0.24 353	9.93 876	8	17	5 | 11.0 4.0 3.5
44	9.69 545	22	9.75 676	29	0.24 324	9.93 869	7	16	6 | 13.2 4.8 4.2
		22		29			7		7 | 15.4 5.6 4.9
45	9.69 567		9.75 705		0.24 295	9.93 862		**15**	8 | 17.6 6.4 5.6
46	9.69 589	22	9.75 735	30	0.24 265	9.93 855	7	14	9 | 19.8 7.2 6.3
47	9.69 611	22	9.75 764	29	0.24 236	9.93 847	8	13	
48	9.69 633	22	9.75 793	29	0.24 207	9.93 840	7	12	
40	9.69 655	22	9.75 822	29	0.24 178	9.93 833	7	11	
		22		30			7		
50	9.69 677		9.75 852		0.24 148	9.93 826		**10**	
51	9.69 699	22	9.75 881	29	0.24 119	9.93 819	7	9	
52	9.69 721	22	9.75 910	29	0.24 090	9.93 811	8	8	
53	9.69 743	22	9.75 939	29	0.24 061	9.93 804	7	7	
54	9.69 765	22	9.75 969	30	0.24 031	9.93 797	7	6	
		22		29			8		
55	9.69 787		9.75 998		0.24 002	9.93 789		**5**	
56	9.69 809	22	9.76 027	29	0.23 973	9.93 782	7	4	
57	9.69 831	22	9.76 056	29	0.23 944	9.93 775	7	3	
58	9.69 853	22	9.76 086	30	0.23 914	9.93 768	7	2	
59	9.69 875	22	9.76 115	29	0.23 885	9.93 760	8	1	
		22		29			7		
60	9.69 897		9.76 144		0.23 856	9.93 753		**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

30°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.69 897		9.76 144		0.23 856	9.93 753		60	
1	9.69 919	22	9.76 173	29	0.23 827	9.93 746	7	59	
2	9.69 941	22	9.76 202	29	0.23 798	9.93 738	8	58	
3	9.69 963	22	9.76 231	29	0.23 769	9.93 731	7	57	
4	9.69 984	21	9.76 261	30	0.23 739	9.93 724	7	56	
		22		29			7		
5	9.70 006		9.76 290		0.23 710	9.93 717	8	55	
6	9.70 028	22	9.76 319	29	0.23 681	9.93 709	7	54	
7	9.70 050	22	9.76 348	29	0.23 652	9.93 702	7	53	
8	9.70 072	22	9.76 377	29	0.23 623	9.93 695	7	52	
9	9.70 093	21	9.76 406	29	0.23 594	9.93 687	8	51	30 29 28
		22		29			7		
10	9.70 115		9.76 435		0.23 565	9.93 680	7	50	1 3.0 2.9 2.8
11	9.70 137	22	9.76 464	29	0.23 536	9.93 673	8	49	2 6.0 5.8 5.6
12	9.70 159	22	9.76 493	29	0.23 507	9.93 665	7	48	3 9.0 8.7 8.4
13	9.70 180	21	9.76 522	29	0.23 478	9.93 658	8	47	4 12.0 11.6 11.2
14	9.70 202	22	9.76 551	29	0.23 449	9.93 650	7	46	5 15.0 14.5 14.0
		22		29			7		6 18.0 17.4 16.8
15	9.70 224		9.76 580		0.23 420	9.93 643	7	45	7 21.0 20.3 19.6
16	9.70 245	21	9.76 609	29	0.23 391	9.93 636	8	44	8 24.0 23.2 22.4
17	9.70 267	22	9.76 639	30	0.23 361	9.93 628	7	43	9 27.0 26.1 25.2
18	9.70 288	21	9.76 668	29	0.23 332	9.93 621	7	42	
19	9.70 310	22	9.76 697	29	0.23 303	9.93 614	7	41	
		22		28			8		
20	9.70 332		9.76 725		0.23 275	9.93 606	7	40	
21	9.70 353	21	9.76 754	29	0.23 246	9.93 599	8	39	
22	9.70 375	22	9.76 783	29	0.23 217	9.93 591	7	38	
23	9.70 396	21	9.76 812	29	0.23 188	9.93 584	7	37	
24	9.70 418	22	9.76 841	29	0.23 159	9.93 577	7	36	
		21		29			8		
25	9.70 439		9.76 870		0.23 130	9.93 569	7	35	
26	9.70 461	22	9.76 899	29	0.23 101	9.93 562	8	34	22 21
27	9.70 482	21	9.76 928	29	0.23 072	9.93 654	7	33	
28	9.70 504	22	9.76 957	29	0.23 043	9.93 547	8	32	1 2.2 2.1
29	9.70 525	21	9.76 986	29	0.23 014	9.93 539	7	31	2 4.4 4.2
		22		29			7		3 6.6 6.3
30	9.70 547		9.77 015		0.22 985	9.93 532	7	30	4 8.8 8.4
31	9.70 568	21	9.77 044	29	0.22 956	9.93 525	8	29	5 11.0 10.5
32	9.70 590	22	9.77 073	29	0.22 927	9.93 517	7	28	6 13.2 12.6
33	9.70 611	21	9.77 101	28	0.22 899	9.93 510	7	27	7 15.4 14.7
34	9.70 633	22	9.77 130	29	0.22 870	9.93 502	8	26	8 17.6 16.8
		21		29			7		9 19.8 18.9
35	9.70 654		9.77 159		0.22 841	9.93 495	8	25	
36	9.70 675	21	9.77 188	29	0.22 812	9.93 487	7	24	
37	9.70 697	22	9.77 217	29	0.22 783	9.93 480	8	23	
38	9.70 718	21	9.77 246	29	0.22 754	9.93 472	7	22	
39	9.70 739	21	9.77 274	28	0.22 726	9.93 465	7	21	
		22		29			8		
40	9.70 761		9.77 303		0.22 697	9.93 457	7	20	
41	9.70 782	21	9.77 332	29	0.22 668	9.93 450	8	19	
42	9.70 803	21	9.77 361	29	0.22 639	9.93 442	7	18	
43	9.70 824	21	9.77 390	29	0.22 610	9.93 435	8	17	
44	9.70 846	22	9.77 418	28	0.22 582	9.93 427	7	16	8 7
		21		29			7		
45	9.70 867		9.77 447		0.22 553	9.93 420	8	15	1 0.8 0.7
46	9.70 888	21	9.77 476	29	0.22 524	9.93 412	7	14	2 1.6 1.4
47	9.70 909	21	9.77 505	29	0.22 495	9.93 405	8	13	3 2.4 2.1
48	9.70 931	22	9.77 533	28	0.22 467	9.93 397	7	12	4 3.2 2.8
49	9.70 952	21	9.77 562	29	0.22 438	9.93 390	7	11	5 4.0 3.5
		21		29			8		6 4.8 4.2
50	9.70 973		9.77 591		0.22 409	9.93 382	7	10	7 5.6 4.9
51	9.70 994	21	9.77 619	28	0.22 381	9.93 375	8	9	8 6.4 5.6
52	9.71 015	21	9.77 648	29	0.22 352	9.93 367	7	8	9 7.2 6.3
53	9.71 036	21	9.77 677	29	0.22 323	9.93 360	8	7	
54	9.71 058	22	9.77 706	29	0.22 294	9.93 352	8	6	
		21		28			8		
55	9.71 079		9.77 734		0.22 266	9 93 344	7	5	
56	9.71 100	21	9.77 763	29	0.22 237	9.93 337	8	4	
57	9.71 121	21	9.77 791	28	0.22 209	9.93 329	7	3	
58	9.71 142	21	9.77 820	29	0.22 180	9.93 322	8	2	
59	9.71 163	21	9 77 849	29	0.22 151	9.93 314	8	1	
				28			7		
60	9.71 184		9 77 877		0.22 123	9.93 307		0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

59°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.71 184	21	9.77 377	29	0.22 123	9.93 307	8	60	
1	9.71 205	21	9.77 906	29	0.22 094	9.93 299	8	59	
2	9.71 226	21	9.77 935	28	0.22 065	9.93 291	7	58	
3	9.71 247	21	9.77 963	29	0.22 037	9.93 284	8	57	
4	9.71 268	21	9.77 992	28	0 22 008	9.93 276	7	53	
5	9.71 289	21	9.78 020	29	0.21 980	9.93 269	8	55	
6	9.71 310	21	9.78 049	28	0.21 951	9.93 261	8	54	
7	9.71 331	21	9.78 077	29	0.21 923	9.93 253	7	53	
8	9.71 352	21	9.78 106	29	0.21 894	9.93 246	8	52	
9	9.71 373	20	9.78 135	28	0.21 865	9.93 238	8	51	29 28
10	9.71 393	21	9.78 163	29	0.21 837	9.93 230	7	50	1 2.9 2.8
11	9.71 414	21	9.78 192	28	0.21 808	9.93 223	8	49	2 5.8 5.6
12	9.71 435	21	9.78 220	29	0.21 780	9.93 215	8	48	3 8.7 8.4
13	9.71 456	21	9.78 249	28	0.21 751	9.93 207	7	47	4 11.6 11.2
14	9.71 477	21	9.78 277	29	0.21 723	9.93 200	8	46	5 14.5 14.0
15	9.71 498	21	9.78 306	28	0.21 694	9.93 192	8	45	6 17.4 16.8
16	9.71 519	20	9.78 334	29	0.21 666	9.93 184	7	44	7 20.3 19.6
17	9.71 539	21	9.78 363	28	0.21 637	9.93 177	8	43	8 23.2 22.4
18	9.71 560	21	9.78 391	28	0.21 609	9.93 169	8	42	9 26.1 25.2
19	9.71 581	21	9.78 419	28	0.21 581	9.93 161	8	41	
20	9.71 602	21	9.78 448	29	0.21 552	9.93 154	7	40	
21	9.71 622	20	9.78 476	28	0.21 524	9.93 146	8	39	
22	9.71 643	21	9.78 505	29	0.21 495	9.93 138	8	38	
23	9.71 664	21	9.78 533	28	0.21 467	9.93 131	7	37	
24	9.71 685	21	9.78 562	29	0.21 438	9.93 123	8	36	
25	9.71 705	20	9.78 590	28	0.21 410	9.93 115	8	35	
26	9.71 726	21	9.78 618	28	0.21 382	9.93 108	7	34	21 20
27	9.71 747	21	9.78 647	29	0.21 353	9.93 100	8	33	
28	9.71 767	20	9.78 675	28	0.21 325	9.93 092	8	32	1 2.1 2.0
29	9.71 788	21	9.78 704	29	0.21 296	9.93 084	8	31	2 4.2 4.0
30	9.71 809	21	9.78 732	28	0.21 268	9.93 077	7	30	3 6.3 6.0
31	9.71 829	20	9.78 760	28	0.21 240	9.93 069	8	29	4 8.4 8.0
32	9.71 850	21	9.78 789	29	0.21 211	9.93 061	8	28	5 10.5 10.0
33	9.71 870	20	9.78 817	28	0.21 183	9.93 053	8	27	6 12.6 12.0
34	9.71 891	21	9.78 845	28	0.21 155	9.93 046	7	26	7 14.7 14.0
35	9.71 911	20	9.78 874	29	0.21 126	9.93 038	8	25	8 16.8 16.0
36	9.71 932	21	9.78 902	28	0.21 098	9.93 030	8	24	9 18.9 18.0
37	9.71 952	20	9.78 930	28	0.21 070	9.93 022	8	23	
38	9.71 973	21	9.78 959	29	0.21 041	9.93 014	8	22	
39	9.71 994	21	9.78 987	28	0.21 013	9.93 007	7	21	
40	9.72 014	20	9.79 015	28	0.20 985	9.92 999	8	20	
41	9.72 034	20	9.79 043	28	0.20 957	9.92 991	8	19	
42	9.72 055	21	9.79 072	29	0.20 928	9.92 983	8	18	
43	9.72 075	20	9.79 100	28	0.20 900	9.92 976	7	17	
44	9.72 096	21	9.79 128	28	0.20 872	9.92 968	8	16	3 7
45	9.72 116	20	9.79 156	28	0.20 844	9.92 960	8	15	1 0.8 0.7
46	9.72 137	21	9.79 185	29	0.20 815	9.92 952	8	14	2 1.6 1.4
47	9.72 157	20	9.79 213	28	0.20 787	9.92 944	8	13	3 2.4 2.1
48	9.72 177	20	9.79 241	28	0.20 759	9.92 936	7	12	4 3.2 2.8
49	9 72 198	21	9.79 269	28	0.20 731	9 92 929	8	11	5 4.0 3.5
50	9.72 218	20	9.79 297	28	0.20 703	9.92 921	8	10	6 4.8 4.2
51	9 72 238	21	9.79 326	28	0.20 674	9.92 913	8	9	7 5.6 4.9
52	9.72 259	20	9.79 354	28	0.20 646	9.92 905	8	8	8 6.4 5.6
53	9.72 279	20	9.79 382	28	0.20 618	9.92 897	8	7	9 7.2 6.3
54	9.72 299	21	9.79 410	28	0.20 590	9.92 889	8	6	
55	9.72 320	20	9.79 438	28	0.20 562	9.92 881	7	5	
56	9.72 340	20	9.79 466	29	0.20 534	9.92 874	8	4	
57	9.72 360	21	9.79 495	28	0.20 505	9.92 866	8	3	
58	9 72 381	20	9.79 523	28	0.20 477	9.92 858	8	2	
59	9.72 401	20	9.79 551	28	0.20 449	9.92 850	8	1	
60	9.72 421		9 79 579		0 20 421	9.92 842		0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

32°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.72 421	20	9.79 579	28	0.20 421	9.92 842	8	**60**	
1	9.72 441	20	9.79 607	28	0.20 393	9.92 834	8	59	
2	9.72 461	21	9.79 635	28	0.20 365	9.92 826	8	58	
3	9.72 482	20	9.79 663	28	0.20 337	9.92 818	8	57	
4	9.72 502	20	9.79 691	28	0.20 309	9.92 810	7	56	
5	9.72 522	20	9.79 719	28	0.20 281	9.92 803	8	**55**	
6	9.72 542	20	9.79 747	29	0.20 253	9.92 795	8	54	
7	9.72 562	20	9.79 776	28	0.20 224	9.92 787	8	53	
8	9.72 582	20	9.79 804	28	0.20 196	9.92 779	8	52	
9	9.72 602	20	9.79 832	28	0.20 168	9.92 771	8	51	**29 28 27**
10	9.72 622	21	9.79 860	28	0.20 140	9.92 763	8	**50**	1 2.9 2.8 2.7
11	9.72 643	20	9.79 888	28	0.20 112	9.92 755	8	49	2 5.8 5.6 5.4
12	9.72 663	20	9.79 916	28	0.20 084	9.92 747	8	48	3 8.7 8.4 8.4
13	9.72 683	20	9.79 944	28	0.20 056	9.92 739	8	47	4 11.6 11.2 10.8
14	9.72 703	20	9.79 972	28	0.20 028	9.92 731	8	46	5 14.5 14.0 13.5
15	9.72 723	20	9.80 000	28	0.20 000	9.92 723	8	**45**	6 17.4 16.8 16.2
16	9.72 743	20	9.80 028	28	0.19 972	9.92 715	8	44	7 20.3 19.6 18.9
17	9.72 763	20	9.80 056	28	0.19 944	9.92 707	8	43	8 23.2 22.4 21.6
18	9.72 783	20	9.80 084	28	0.19 916	9.92 699	8	42	9 26.1 25.2 24.3
19	9.72 803	20	9.80 112	28	0.19 888	9.92 691	8	41	
20	9.72 823	20	9.80 140	28	0.19 860	9.92 683	8	**40**	
21	9.72 843	20	9.80 168	27	0.19 832	9.92 675	8	39	
22	9.72 863	20	9.80 195	28	0.19 805	9.92 667	8	38	
23	9.72 883	19	9.80 223	28	0.19 777	9.92 659	8	37	
24	9.72 902	20	9.80 251	28	0.19 749	9.92 651	8	36	
25	9.72 922	20	9.80 279	28	0.19 721	9.92 643	8	**35**	
26	9.72 942	20	9.80 307	28	0.19 693	9.92 635	8	34	**21 20 19**
27	9.72 962	20	9.80 335	28	0.19 665	9.92 627	8	33	
28	9.72 982	20	9.80 363	28	0.19 637	9.92 619	8	32	1 2.1 2.0 1.9
29	9.73 002	20	9.80 391	28	0.19 609	9.92 611	8	31	2 4.2 4.0 3.8
30	9.73 022	19	9.80 419	28	0.19 581	9.92 603	8	**30**	3 6.3 6.0 5.7
31	9.73 041	20	9.80 447	27	0.19 553	9.92 595	8	29	4 8.4 8.0 7.6
32	9.73 061	20	9.80 474	28	0.19 526	9.92 587	8	28	5 10.5 10.0 9.5
33	9.73 081	20	9.80 502	28	0.19 498	9.92 579	8	27	6 12.6 12.0 11.4
34	9.73 101	20	9.80 530	28	0.19 470	9.92 571	8	26	7 14.7 14.0 13.3
35	9.73 121	19	9.80 558	28	0.19 442	9.92 563	8	**25**	8 16.8 16.0 15.2
36	9.73 140	20	9.80 586	28	0.19 414	9.92 555	9	24	9 18.9 18.0 17.1
37	9.73 160	20	9.80 614	28	0.19 386	9.92 546	8	23	
38	9.73 180	20	9.80 642	27	0.19 358	9.92 538	8	22	
39	9.73 200	19	9.80 669	28	0.19 331	9.92 530	8	21	
40	9.73 219	20	9.80 697	28	0.19 303	9.92 522	8	**20**	
41	9.73 239	20	9.80 725	28	0.19 275	9.92 514	8	19	
42	9.73 259	19	9.80 753	28	0.19 247	9.92 506	8	18	
43	9.73 278	20	9.80 781	27	0.19 219	9.92 498	8	17	
44	9.73 298	20	9.80 808	28	0.19 192	9.92 490	8	16	**9 8 7**
45	9.73 318	19	9.80 836	28	0.19 164	9.92 482	9	**15**	1 0.9 0.8 0.7
46	9.73 337	20	9.80 864	28	0.19 136	9.92 473	8	14	2 1.8 1.6 1.4
47	9.73 357	20	9.80 892	27	0.19 108	9.92 465	8	13	3 2.7 2.4 2.1
48	9.73 377	19	9.80 919	28	0.19 081	9.92 457	8	12	4 3.6 3.2 2.8
49	9.73 396	20	9.80 947	28	0.19 053	9.92 449	8	11	5 4.5 4.0 3.5
50	9.73 416	19	9.80 975	28	0.19 025	9.92 441	8	**10**	6 5.4 4.8 4.2
51	9.73 435	20	9.81 003	27	0.18 997	9.92 433	8	9	7 6.3 5.6 4.9
52	9.73 455	19	9.81 030	28	0.18 970	9.92 425	9	8	8 7.2 6.4 5.6
53	9.73 474	20	9.81 058	28	0.18 942	9.92 416	8	7	9 8.1 7.2 6.3
54	9.73 494	19	9.81 086	28	0.18 914	9.92 408	8	6	
55	9.73 513	20	9.81 113	27	0.18 887	9.92 400	8	**5**	
56	9.73 533	19	9.81 141	28	0.18 859	9.92 392	8	4	
57	9.73 552	20	9.81 169	28	0.18 831	9.92 384	8	3	
58	9.73 572	19	9.81 196	27	0.18 804	9.92 376	9	2	
59	9.73 591	20	9.81 224	28	0.18 776	9.92 367	9	1	
60	9.73 611		9.81 252	28	0.18 748	9.92 359		**0**	
′	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

57°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.73 611		9.81 252		0.18 748	9.92 359		60	
		19		27			8		
1	9.73 630		9.81 279		0.18 721	9.92 351		59	
		20		28			8		
2	9.73 650		9.81 307		0.18 693	9.92 343		58	
		19		28			8		
3	9.73 669		9.81 335		0.18 665	9.92 335		57	
		20		27			9		
4	9.73 689		9.81 362		0.18 638	9.92 326		56	
		19		28			8		
5	9.73 708		9.81 390		0.18 610	9.92 318		55	
		19		28			8		
6	9.73 727		9.81 418		0.18 582	9.92 310		54	
		20		27			8		
7	9.73 747		9.81 445		0.18 555	9.92 302		53	
		19		28			8		
8	9.73 766		9.81 473		0.18 527	9.92 293		52	
		19		27			9		
9	9.73 785		9.81 500		0.18 500	9.92 285		51	28 27
		20		28			8		
10	9.73 805		9.81 528		0.18 472	9.92 277		50	1 2.8 2.7
		19		28			8		
11	9.73 824		9.81 556		0.18 444	9.92 269		49	2 5.6 5.4
		19		27			9		
12	9.73 843		9.81 583		0.18 417	9.92 260		48	3 8.4 8.1
		20		28			8		
13	9.73 863		9.81 611		0.18 389	9.92 252		47	4 11.2 10.8
		19		27			8		
14	9.73 882		9.81 638		0.18 362	9.92 244		46	5 14.0 13.5
		19		28			9		6 16.8 16.2
15	9.73 901		9.81 666		0.18 334	9.92 235		45	7 19.6 18.9
		20		27			8		
16	9.73 921		9.81 693		0.18 307	9.92 227		44	8 22.4 21.6
		19		28			8		
17	9.73 940		9.81 721		0.18 279	9.92 219		43	9 25.2 24.3
		19		27			8		
18	9.73 959		9.81 748		0.18 252	9.92 211		42	
		19		28			9		
19	9.73 978		9.81 776		0.18 224	9.92 202		41	
		19		27			8		
20	9.73 997		9.81 803		0.18 197	9.92 194		40	
		20		28			8		
21	9.74 017		9.81 831		0.18 169	9.92 186		39	
		19		27			9		
22	9.74 036		9.81 858		0.18 142	9.92 177		38	
		19		28			8		
23	9.74 055		9.81 886		0.18 114	9.92 169		37	
		19		27			8		
24	9.74 074		9.81 913		0.18 087	9.92 161		36	
		19		28			9		
25	9.74 093		9.81 941		0.18 059	9.92 152		35	
		20		27			8		
26	9.74 113		9.81 968		0.18 032	9.92 144		34	20 19 18
		19		28			8		
27	9.74 132		9.81 996		0.18 004	9.92 136		33	
		19		27			9		
28	9.74 151		9.82 023		0.17 977	9.92 127		32	1 2.0 1.9 1.8
		19		28			8		
29	9.74 170		9.82 051		0.17 949	9.92 119		31	2 4.0 3.8 3.6
		19		27			8		3 6.0 5.7 5.4
30	9.74 189		9.82 078		0.17 922	9.92 111		30	4 8.0 7.6 7.2
		19		28			9		
31	9.74 208		9.82 106		0.17 894	9.92 102		29	5 10.0 9.5 9.0
		19		27			8		
32	9.74 227		9.82 133		0.17 867	9.92 094		28	6 12.0 11.4 10.8
		19		28			8		
33	9.74 246		9.82 161		0.17 839	9.92 086		27	7 14.0 13.3 12.6
		19		27			9		
34	9.74 265		9.82 188		0.17 812	9.92 077		26	8 16.0 15.2 14.4
		19		27			8		
35	9.74 284		9.82 215		0.17 785	9.92 069		25	9 18.0 17.1 16.2
		19		28			9		
36	9.74 303		9.82 243		0.17 757	9.92 060		24	
		19		27			8		
37	9.74 322		9.82 270		0.17 730	9.92 052		23	
		19		28			8		
38	9.74 341		9.82 298		0.17 702	9.92 044		22	
		19		27			9		
39	9.74 360		9.82 325		0.17 675	9.92 035		21	
		19		27			8		
40	9.74 379		9.82 352		0.17 648	9.92 027		20	
		19		28			9		
41	9.74 398		9.82 380		0.17 620	9.92 018		19	
		19		27			8		
42	9.74 417		9.82 407		0.17 593	9.92 010		18	
		19		28			8		
43	9.74 436		9.82 435		0.17 565	9.92 002		17	
		19		27			9		
44	9.74 455		9.82 462		0.17 538	9.91 993		16	9 8
		19		27			8		
45	9.74 474		9.82 489		0.17 511	9.91 985		15	1 0.9 0.8
		19		28			9		
46	9.74 493		9.82 517		0.17 483	9.91 976		14	2 1.8 1.6
		19		27			8		
47	9.74 512		9.82 544		0.17 456	9.91 968		13	3 2.7 2.4
		19		27			8		
48	9.74 531		9.82 571		0.17 429	9.91 959		12	4 3.6 3.2
		18		28			8		
49	9.74 549		9.82 599		0.17 401	9.91 951		11	5 4.5 4.0
		19		27			9		6 5.4 4.8
50	9.74 568		9.82 626		0.17 374	9.91 942		10	7 6.3 5.6
		19		27			8		
51	9.74 587		9.82 653		0.17 347	9.91 934		9	8 7.2 6.4
		19		28			9		
52	9.74 606		9.82 681		0.17 319	9.91 925		8	9 8.1 7.2
		19		27			8		
53	9.74 625		9.82 708		0.17 292	9.91 917		7	
		19		27			9		
54	9.74 644		9.82 735		0.17 265	9.91 908		6	
		18		27			8		
55	9.74 662		9.82 762		0.17 238	9.91 900		5	
		19		28			9		
56	9.74 681		9.82 790		0.17 210	9.91 891		4	
		19		27			8		
57	9.74 700		9.82 817		0.17 183	9.91 883		3	
		19		27			9		
58	9.74 719		9.82 844		0.17 156	9.91 874		2	
		18		27			8		
59	9.74 737		9.82 871		0.17 129	9.91 866		1	
		19		28			9		
60	9.74 756		9.82 899		0.17 101	9.91 857		0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

三角函數眞數表

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.74 756	19	9.82 899	27	0.17 101	9.91 857	3	60	
1	9.74 775	19	9.82 926	27	0.17 074	9.91 849	8	59	
2	9.74 794	18	9.82 953	27	0.17 047	9.91 840	9	58	
3	9.74 812	19	9.82 980	28	0.17 020	9.91 832	8	57	
4	9.74 831		9.83 008		0.16 992	9.91 823		56	
		19		27			9		
5	9.74 850		9.83 035		0.16 965	9.91 815	8	55	
6	9.74 868	18	9.83 062	27	0.16 938	9.91 806	9	54	
7	9.74 887	19	9.83 089	27	0.16 911	9.91 798	8	53	
8	9.74 906	19	9.83 117	28	0.16 883	9.91 789	9	52	
9	9.74 924	18	9.83 144	27	0.16 856	9.91 781	8	51	
		19		27			9		28 27 26
10	9.74 943		9.83 171		0.16 829	9.91 772		50	1 2.8 2.7 2.6
11	9.74 961	18	9.83 198	27	0.16 802	9.91 763	9	49	2 5.6 5.4 5.2
12	9.74 980	19	9.83 225	27	0.16 775	9.91 755	8	48	3 8.4 8.1 7.8
13	9.74 999	19	9.83 252	27	0.16 748	9.91 746	9	47	4 11.2 10.8 10.4
14	9.75 017	18	9.83 280	28	0.16 720	9.91 738	8	46	5 14.0 13.5 13.0
		19		27			9		6 16.8 16.2 15.6
15	9.75 036		9.83 307		0.16 693	9.91 729		45	7 19.6 18.9 18.2
16	9.75 054	18	9.83 334	27	0.16 666	9.91 720	9	44	8 22.4 21.6 20.8
17	9.75 073	19	9.83 361	27	0.16 639	9.91 712	8	43	9 25.2 24.3 23.4
18	9.75 091	18	9.83 388	27	0.16 612	9.91 703	9	42	
19	9.75 110	19	9.83 415	27	0.16 585	9.91 695	8	41	
		18		27			9		
20	9.75 128		9.83 442		0.16 558	9.91 686		40	
21	9.75 147	19	9.83 470	28	0.16 530	9.91 677	9	39	
22	9.75 165	18	9.83 497	27	0.16 503	9.91 669	8	38	
23	9.75 184	19	9.83 524	27	0.16 476	9.91 660	9	37	
24	9.75 202	18	9.83 551	27	0.16 449	9.91 651	9	36	
		19		27			8		
25	9.75 221		9.83 578		0.16 422	9.91 643	9	35	
26	9.75 239	18	9.83 605	27	0.16 395	9.91 634	9	34	19 18
27	9.75 258	19	9.83 632	27	0.16 368	9.91 625	8	33	
28	9.75 276	18	9.83 659	27	0.16 341	9.91 617	9	32	1 1.9 1.8
29	9.75 294	18	9.83 686	27	0.16 314	9.91 608	9	31	2 3.8 3.6
		19		27			9		3 5.7 5.4
30	9.75 313		9.83 713		0.16 287	9.91 599		30	4 7.6 7.2
31	9.75 331	18	9.83 740	27	0.16 260	9.91 591	8	29	5 9.5 9.0
32	9.75 350	19	9.83 768	28	0.16 232	9.91 582	9	28	6 11.4 10.8
33	9.75 368	18	9.83 795	27	0.16 205	9.91 573	9	27	7 13.3 12.6
34	9.75 386	18	9.83 822	27	0.16 178	9.91 565	8	26	8 15.2 14.4
		19		27			9		9 17.1 16.2
35	9.75 405		9.83 849		0.16 151	9.91 556		25	
36	9.75 423	18	9.83 876	27	0.16 124	9.91 547	9	24	
37	9.75 441	18	9.83 903	27	0.16 097	9.91 538	9	23	
38	9.75 459	18	9.83 930	27	0.16 070	9.91 530	9	22	
39	9.75 478	19	9.83 957	27	0.16 043	9.91 521	9	21	
		18		27			9		
40	9.75 496		9.83 984		0.16 016	9 91 512		20	
41	9.75 514	18	9.84 011	27	0.15 989	9.91 504	8	19	
42	9.75 533	19	9.84 038	27	0.15 962	9.91 495	9	18	
43	9.75 551	18	9.84 065	27	0.15 935	9.91 486	9	17	
44	9.75 569	18	9.84 092	27	0.15 908	9.91 477	9	16	9 8
		18		27			8		
45	9.75 587		9.84 119		0.15 881	9.91 469		15	1 0.9 0.8
46	9.75 605	18	9.84 146	27	0.15 854	9.91 460	9	14	2 1.8 1.6
47	9.75 624	19	9.84 173	27	0.15 827	9.91 451	9	13	3 2.7 2.4
48	9.75 642	18	9.84 200	27	0.15 800	9.91 442	9	12	4 3.6 3.2
49	9.75 660	18	9.84 227	27	0.15 773	9.91 433	9	11	5 4.5 4.0
		18		27			8		6 5.4 4.8
50	9.75 678		9.84 254		0.15 746	9.91 425		10	7 6.3 5.6
51	9.75 696	18	9.84 280	26	0.15 720	9.91 416	9	9	8 7.2 6.4
52	9.75 714	18	9.84 307	27	0.15 693	9.91 407	9	8	9 8.1 7.2
53	9.75 733	19	9.84 334	27	0.15 666	9.91 398	9	7	
54	9.75 751	18	9.84 361	27	0.15 639	9.91 389	9	6	
		18		27			8		
55	9.75 769		9.84 388		0.15 612	9.91 381		5	
56	9.75 787	18	9.84 415	27	0.15 585	9.91 372	9	4	
57	9.75 805	18	9.84 442	27	0.15 558	9.91 363	9	3	
58	9.75 823	18	9.84 469	27	0.15 531	9.91 354	9	2	
59	9.75 841	18	9.84 496	27	0.15 504	9.91 345	9	1	
60	9.75 859		9.84 523		0.15 477	9.91 336		0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記－10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.75 859	18	9.84 523	27	0.15 477	9.91 336	8	60	
1	9.75 877	18	9.84 550	26	0 15 450	9.91 328	9	59	
2	9.75 895	18	9.84 576	27	0.15 424	9.91 319	9	58	
3	9.75 913	18	9.84 603	27	0.15 397	9.91 310	9	57	
4	9.75 931	18	9.84 630	27	0.15 370	9.91 301	9	56	
5	9.75 949	18	9.84 657	27	0.15 343	9.91 292	9	55	
6	9.75 967	18	9.84 684	27	0.15 316	9.91 283	9	54	
7	9.75 985	18	9.84 711	27	0.15 289	9.91 274	8	53	
8	9.76 003	18	9.84 738	26	0.15 262	9.91 256	9	52	
9	9.76 021	18	9.84 764	27	0.15 236	9.91 257	9	51	27 26
10	9.76 039	18	9.84 791	27	0.15 209	9.91 248	9	50	1 2.7 2.6
11	9.76 057	18	9.84 818	27	0.15 182	9.91 239	9	49	2 5.4 5.2
12	9.76 075	18	9.84 845	27	0.15 155	9.91 230	9	48	3 8.1 7.8
13	9.76 093	18	9.84 872	27	0.15 128	9.91 221	9	47	4 10.8 10.4
14	9.76 111	18	9.84 899	26	0.15 101	9.91 212	9	46	5 13.5 13.0
15	9.76 129	17	9.84 925	27	0.15 075	9.91 203	9	45	6 16.2 15.6
16	9.76 146	18	9.84 952	27	0.15 048	9 91 194	9	44	7 18.9 18.2
17	9.76 164	18	9.84 979	27	0.15 021	9.91 185	9	43	8 21.6 20.8
18	9.76 182	18	9.85 006	27	0.14 994	9.91 176	9	42	9 24.3 23.4
19	9.76 200	18	9.85 033	26	0.14 967	9.91 167	9	41	
20	9.76 218	18	9.85 059	27	0.14 941	9.91 158	9	40	
21	9.76 236	17	9.85 086	27	0.14 914	9.91 149	9	39	
22	9.76 253	18	9.85 113	27	0.14 887	9.91 141	8	38	
23	9.76 271	18	9.85 140	26	0.14 860	9.91 132	9	37	
24	9.76 289	18	9.85 166	27	0.14 834	9.91 123	9	36	
25	9.76 307	17	9.85 193	27	0.14 807	9.91 114	9	35	
26	9.76 324	18	9.85 220	27	0.14 780	9.91 105	9	34	18 17
27	9.76 342	18	9.85 247	27	0.14 753	9.91 096	9	33	
28	9.76 360	18	9.85 273	26	0.14 727	9.91 087	9	32	1 1.8 1.7
29	9.76 378	18	9.85 300	27	0.14 700	9.91 078	9	31	2 3.6 3.4
30	9.76 395	17	9.85 327	27	0.14 673	9.91 069	9	30	3 5.4 5.1
31	9.76 413	18	9.85 354	27	0.14 646	9.91 060	9	29	4 7.2 6.8
32	9.76 431	18	9.85 380	26	0.14 620	9.91 051	9	28	5 9.0 8.5
33	9.76 448	17	9.85 407	27	0.14 593	9.91 042	9	27	6 10.8 10.2
34	9.76 466	18	9.85 434	27	0.14 566	9.91 033	9	26	7 12.6 11.9
35	9.76 484	18	9.85 460	26	0.14 540	9.91 023	10	25	8 14.4 13.6
36	9.76 501	17	9.85 487	27	0.14 513	9.91 014	9	24	9 16.2 15.3
37	9.76 519	18	9.85 514	27	0.14 486	9.91 005	9	23	
38	9.76 537	18	9.85 540	26	0.14 460	9.90 996	9	22	
39	9.76 554	17	9.85 567	27	0.14 433	9.90 987	9	21	
40	9.76 572	18	9.85 594	27	0.14 406	9.90 978	9	20	
41	9.76 590	17	9.85 620	27	0.14 380	9.90 969	9	19	
42	9.76 607	18	9.85 647	27	0.14 353	9.90 960	9	18	
43	9.76 625	17	9.85 674	26	0.14 326	9.90 951	9	17	
44	9.76 642	18	9.85 700	27	0.14 300	9.90 942	9	16	10 9 8
45	9.76 660	17	9.85 727	27	0.14 273	9.90 933	9	15	1 1.0 0.9 0.8
46	9.76 677	18	9.85 754	27	0.14 246	9.90 924	9	14	2 2.0 1.8 1.6
47	9.76 695	17	9.85 780	26	0.14 220	9.90 915	9	13	3 3.0 2.7 2.4
48	9.76 712	18	9.85 807	27	0.14 193	9.90 906	9	12	4 4.0 3.6 3.2
49	9.76 730	18	9.85 834	27	0.14 166	9.90 896	10	11	5 5.0 4.5 4.0
50	9.76 747	17	9.85 860	26	0.14 140	9.90 887	9	10	6 6.0 5.4 4.8
51	9.76 765	18	9.85 887	27	0.14 113	9.90 878	9	9	7 7.0 6.3 5.6
52	9.76 782	17	9.85 913	26	0.14 087	9.90 869	9	8	8 8.0 7.2 6.4
53	9.76 800	18	9.85 940	27	0.14 060	9.90 860	9	7	9 9.0 8.1 7.2
54	9.76 817	17	9.85 967	27	0.14 033	9.90 851	9	6	
55	9.76 835	18	9.85 993	26	0.14 007	9 90 842	9	5	
56	9.76 852	17	9.86 020	27	0.13 980	9 90 832	10	4	
57	9.76 870	18	9.86 046	26	0.13 954	9 90 823	9	3	
58	9.76 887	17	9.86 073	27	0.13 927	9 90 814	9	2	
59	9.76 904	17	9.86 100	27	0.13 900	9 90 805	9	1	
60	9.76 922	18	9.86 126	26	0.13 874	9.90 796	9	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

36°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.76 922	17	9.86 126	27	0.13 874	9.90 796	9	**60**	
1	9.76 939	18	9.86 153	26	0.13 847	9.90 787	10	59	
2	9.76 957	17	9.86 179	27	0.13 821	9.90 777	9	58	
3	9.76 974	17	9.86 206	26	0.13 794	9.90 768	9	57	
4	9.76 991	18	9.86 232	27	0.13 768	9.90 759	9	56	
5	9.77 009	17	9.86 259	26	0.13 741	9.90 750	9	**55**	
6	9.77 026	17	9.86 285	27	0.13 715	9.90 741	10	54	
7	9.77 043	18	9.86 312	26	0.13 688	9.90 731	9	53	
8	9.77 061	17	9.86 338	26	0.13 662	9.90 722	9	52	
9	9.77 078	17	9.86 365	27	0.13 635	9.90 713	9	51	27 26
10	9.77 095	17	9.86 392	26	0.13 608	9.90 704	10	**50**	1 2.7 2.6
11	9.77 112	18	9.86 418	27	0.13 582	9.90 694	9	49	2 5.4 5.2
12	9.77 130	17	9.86 445	26	0.13 555	9.90 685	9	48	3 8.1 7.8
13	9.77 147	17	9.86 471	27	0.13 529	9.90 676	9	47	4 10.8 10.4
14	9.77 164	17	9.86 498	26	0.13 502	9.90 667	10	46	5 13.5 13.0
15	9.77 181	18	9.86 524	27	0.13 476	9.90 657	9	**45**	6 16.2 15.6
16	9.77 199	17	9.86 551	26	0.13 449	9.90 648	9	44	7 18.9 18.2
17	9.77 216	17	9.86 577	26	0.13 423	9.90 639	9	43	8 21.6 20.8
18	9.77 233	17	9.86 603	27	0.13 397	9.90 630	10	42	9 24.3 23.4
19	9.77 250	17	9.86 630	26	0.13 370	9.90 620	9	41	
20	9.77 268	18	9.86 656	27	0.13 344	9.90 611	9	**40**	
21	9.77 285	17	9.86 683	26	0.13 317	9.90 602	10	39	
22	9.77 302	17	9.86 709	27	0.13 291	9.90 592	9	38	
23	9.77 319	17	9.86 736	26	0.13 264	9.90 583	9	37	
24	9.77 336	17	9.86 762	26	0.13 238	9.90 574	9	36	
25	9.77 353	17	9.86 789	27	0.13 211	9.90 565	10	**35**	
26	9.77 370	17	9.86 815	26	0.13 185	9.90 555	9	34	18 17 16
27	9.77 387	18	9.86 842	27	0.13 158	9.90 546	9	33	
28	9.77 405	17	9.86 868	26	0.13 132	9.90 537	9	32	1 1.8 1.7 1.6
29	9.77 422	17	9.86 894	26	0.13 106	9.90 527	10	31	2 3.6 3.4 3.2
30	9.77 439	17	9.86 921	27	0.13 079	9.90 518	9	**30**	3 5.4 5.1 4.8
31	9.77 456	17	9.86 947	26	0.13 053	9.90 509	9	29	4 7.2 6.8 6.4
32	9.77 473	17	9.86 974	27	0.13 026	9.90 499	10	28	5 9.0 8.5 8.0
33	9.77 490	17	9.87 000	26	0.13 000	9.90 490	9	27	6 10.8 10.2 9.6
34	9.77 507	17	9.87 027	27	0.12 973	9.90 480	10	26	7 12.6 11.9 11.2
35	9.77 524	17	9.87 053	26	0.12 947	9.90 471	9	**25**	8 14.4 13.6 12.8
36	9.77 541	17	9.87 079	26	0.12 921	9.90 462	9	24	9 16.2 15.3 14.4
37	9.77 558	17	9.87 106	27	0.12 894	9.90 452	10	23	
38	9.77 575	17	9.87 132	26	0.12 868	9.90 443	9	22	
39	9.77 592	17	9.87 158	26	0.12 842	9.90 434	9	21	
40	9.77 609	17	9.87 185	27	0.12 815	9.90 424	10	**20**	
41	9.77 626	17	9.87 211	26	0.12 789	9.90 415	9	19	
42	9.77 643	17	9.87 238	27	0.12 762	9.90 405	10	18	
43	9.77 660	17	9.87 264	26	0.12 736	9.90 396	9	17	
44	9.77 677	17	9.87 290	26	0.12 710	9.90 386	10	16	10 9
45	9.77 694	17	9.87 317	27	0.12 683	9.90 377	9	**15**	1 1.0 0.9
46	9.77 711	17	9.87 343	26	0.12 657	9.90 368	9	14	2 2.0 1.8
47	9.77 728	17	9.87 369	26	0.12 631	9.90 358	10	13	3 3.0 2.7
48	9.77 744	16	9.87 396	27	0.12 604	9.90 349	9	12	4 4.0 3.6
49	9.77 761	17	9.87 422	26	0.12 578	9.90 339	10	11	5 5.0 4.5
50	9 77 778	17	9.87 448	26	0.12 552	9.90 330	9	**10**	6 6.0 5.4
51	9.77 795	17	9.87 475	27	0.12 525	9.90 320	10	9	7 7.0 6.3
52	9 77 812	17	9.87 501	26	0.12 499	9.90 311	9	8	8 8.0 7.2
53	9.77 829	17	9.87 527	26	0.12 473	9.90 301	10	7	9 9.0 8.1
54	9.77 846	17	9.87 554	27	0.12 446	9.90 292	9	6	
55	9.77 862	16	9.87 580	26	0.12 420	9.90 282	10	**5**	
56	9.77 879	17	9.87 606	26	0.12 394	9.90 273	9	4	
57	9.77 896	17	9.87 633	27	0.12 367	9.90 263	10	3	
58	9.77 913	17	9.87 659	26	0.12 341	9.90 254	9	2	
59	9.77 930	17	9.87 685	26	0.12 315	9.90 244	10	1	
60	9.77 946	16	9.87 711	26	0.12 289	9.90 235	9	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

53°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

37°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.77 946	17	9.87 711	27	0.12 289	9.90 235̄	10	60	
1	9.77 963	17	9.87 738	26	0.12 262	9.90 225	9	59	
2	9.77 980	17	9.87 764	26	0.12 236	9.90 216	10	58	
3	9.77 997	16	9.87 790	27	0.12 210	9.90 206	9	57	
4	9.78 013	17	9.87 817	26	0.12 183	9.90 197	10	56	
5	9.78 030	17	9.87 843	26	0.12 157	9.90 187	9	55	
6	9.78 047	16	9.87 869	26	0.12 131	9.90 178	10	54	
7	9.78 063	17	9.87 895	27	0.12 105̄	9.90 168	9	53	
8	9.78 080	17	9.87 922	26	0.12 078	9.90 159	10	52	
9	9.78 097	16	9.87 948	26	0.12 052	9.90 149	10	51	27 26
10	9.78 113	17	9.87 974	26	0.12 026	9.90 139	9	50	1 2.7 2.6
11	9.78 130	17	9.88 000	27	0.12 000	9.90 130	10	49	2 5.4 5.2
12	9.78 147	16	9.88 027	26	0.11 973	9.90 120	9	48	3 8.1 7.8
13	9.78 163	17	9.88 053	26	0.11 947	9.90 111	10	47	4 10.8 10.4
14	9.78 180	17	9.88 079	26	0.11 921	9.90 101	10	46	5 13.5 13.0
15	9.78 197	16	9.88 105	26	0.11 895̄	9.90 091	9	45	6 16.2 15.6
16	9.78 213	17	9.88 131	26	0.11 869	9.90 082	10	44	7 18.9 18.2
17	9.78 230	16	9.88 158	27	0.11 842	9.90 072	9	43	8 21.6 20.8
18	9.78 246	17	9.88 184	26	0.11 816	9.90 063	10	42	9 24.3 23.4
19	9.78 263	17	9.88 210	26	0.11 790	9.90 053	10	41	
20	9.78 280	16	9.88 236	26	0.11 764	9.90 043	9	40	
21	9.78 296	17	9.88 262	27	0.11 738	9.90 034	10	39	
22	9.78 313	16	9.88 289	26	0.11 711	9.90 024	10	38	
23	9.78 329	17	9.88 315̄	26	0.11 685	9.90 014	9	37	
24	9.78 346	16	9.88 341	26	0.11 659	9.90 005̄	10	36	
25	9.78 362	17	9.88 367	26	0.11 633	9.89 995	10	35	
26	9.78 379	16	9.88 393	27	0.11 607	9.89 985	9	34	17 16
27	9.78 395	17	9.88 420	26	0.11 580	9.89 976	10	33	
28	9.78 412	16	9.88 446	26	0.11 554	9.89 966	10	32	1 1.7 1.6
29	9.78 428	17	9.88 472	26	0.11 528	9.89 956	9	31	2 3.4 3.2
30	9.78 445̄	16	9.88 498	26	0.11 502	9.89 947	10	30	3 5.1 4.8
31	9.78 461	17	9.88 524	26	0.11 476	9.89 937	10	29	4 6.8 6.4
32	9.78 478	16	9.88 550	27	0.11 450	9.89 927	9	28	5 8.5 8.0
33	9.78 494	16	9.88 577	26	0.11 423	9.89 918	10	27	6 10.2 9.6
34	9.78 510	17	9.88 603	26	0.11 397	9.89 908	10	26	7 11.9 11.2
35	9.78 527	16	9.88 629	26	0.11 371	9.89 898	10	25	8 13.6 12.8
36	9.78 543	17	9.88 655	26	0.11 345	9.89 888	9	24	9 15.3 14.4
37	9.78 560	16	9.88 681	26	0.11 319	9.89 879	10	23	
38	9.78 576	16	9.88 707	26	0.11 293	9.89 869	10	22	
39	9.78 592	17	9.88 733	26	0.11 267	9.89 859	10	21	
40	9.78 609	16	9.88 759	27	0.11 241	9.89 849	9	20	
41	9.78 625	17	9.88 786	26	0.11 214	9.89 840	10	19	
42	9.78 642	16	9.88 812	26	0.11 188	9.89 830	10	18	
43	9.78 658	16	9.88 838	26	0.11 162	9.89 820	10	17	
44	9.78 674	17	9.88 864	26	0.11 136	9.89 810	10	16	10 9
45	9.78 691	16	9.88 890	26	0.11 110	9.89 801	9	15	1 1.0 0.9
46	9.78 707	16	9.88 916	26	0.11 084	9.89 791	10	14	2 2.0 1.8
47	9.78 723	16	9.88 942	26	0.11 058	9.89 781	10	13	3 3.0 2.7
48	9.78 739	16	9.88 968	26	0.11 032	9.89 771	10	12	4 4.0 3.6
49	9.78 756	17	9.88 994	26	0.11 006	9.89 761	10	11	5 5.0 4.5
50	9.78 772	16	9.89 020	26	0.10 980	9.89 752	9	10	6 6.0 5.4
51	9.78 788	17	9.89 046	27	0.10 954	9.89 742	10	9	7 7.0 6.3
52	9.78 805	16	9.89 073	26	0.10 927	9.89 732	10	8	8 8.0 7.2
53	9.78 821	16	9.89 099	26	0.10 901	9.89 722	10	7	9 9.0 8.1
54	9.78 837	16	9.89 125̄	26	0.10 875	9.89 712	10	6	
55	9.78 853	16	9.89 151	26	0.10 849	9.89 702	10	5	
56	9.78 869	17	9.89 177	26	0.10 823	9.89 693	9	4	
57	9.78 886	16	9.89 203	26	0.10 797	9.89 683	10	3	
58	9.78 902	16	9.89 229	26	0.10 771	9.89 673	10	2	
59	9.78 918	16	9.89 255	26	0.10 745	9.89 663	10	1	
60	9.78 934		9.89 281		0.10 719	9.89 653	10	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

52°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

38°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.78 934		9.89 281		0.10 719	9.89 653		**60**	
1	9.78 950	16	9.89 307	26	0.10 693	9.89 643	10	59	
2	9.78 967	17	9.89 333	26	0.10 667	9.89 633	10	58	
3	9.78 983	16	9.89 359	26	0.10 641	9.89 624	9	57	
4	9.78 999	16	9.89 385	26	0.10 615	9.89 614	10	56	
5	9.79 015	16	9.89 411	26	0.10 589	9.89 604	10	**55**	
6	9.79 031	16	9.89 437	26	0.10 563	9.89 594	10	54	
7	9.79 047	16	9.89 463	26	0.10 537	9.89 584	10	53	
8	9.79 063	16	9.89 489	26	0.10 511	9.89 574	10	52	
9	9.79 079	16	9.89 515	26	0.10 485	9.89 564	10	51	**26 25**
10	9.79 095	16	9.89 541	26	0.10 459	9.89 554	10	**50**	1 2.6 2.5
11	9.79 111	16	9.89 567	26	0.10 433	9.89 544	10	49	2 5.2 5.0
12	9.79 128	17	9.89 593	26	0.10 407	9.89 534	10	48	3 7.8 7.5
13	9.79 144	16	9.89 619	26	0.10 381	9.89 524	10	47	4 10.4 10.0
14	9.79 160	16	9.89 645	26	0.10 355	9.89 514	10	46	5 13.0 12.5
15	9.79 176	16	9.89 671	26	0.10 329	9.89 504	10	**45**	6 15.6 15.0
16	9.79 192	16	9.89 697	26	0.10 303	9.89 495	9	44	7 18.2 17.5
17	9.79 208	16	9.89 723	26	0.10 277	9.89 485	10	43	8 20.8 20.0
18	9.79 224	16	9.89 749	26	0.10 251	9.89 475	10	42	9 23.4 22.5
19	9.79 240	16	9.89 775	26	0.10 225	9.89 465	10	41	
20	9.79 256	16	9.89 801	26	0.10 199	9.89 455	10	**40**	
21	9.79 272	16	9.89 827	26	0.10 173	9.89 445	10	39	
22	9.79 288	16	9.89 853	26	0.10 147	9.89 435	10	38	
23	9.79 304	16	9.89 879	26	0.10 121	9.89 425	10	37	
24	9.79 319	15	9.89 905	26	0.10 095	9.89 415	10	36	
25	9.79 335	16	9.89 931	26	0.10 069	9.89 405	10	**35**	
26	9.79 351	16	9.89 957	26	0.10 043	9.89 395	10	34	**17 16 15**
27	9.79 367	16	9.89 983	26	0.10 017	9.89 385	10	33	
28	9.79 383	16	9.90 009	26	0.09 991	9.89 375	10	32	1 1.7 1.6 1.5
29	9.79 399	16	9.90 035	26	0.09 965	9.89 364	11	31	2 3.4 3.2 3.0
30	9.79 415	16	9.90 061	26	0.09 939	9.89 354	10	**30**	3 5.1 4.8 4.5
31	9.79 431	16	9.90 086	25	0.09 914	9.89 344	10	29	4 6.8 6.4 6.0
32	9.79 447	16	9.90 112	26	0.09 888	9.89 334	10	28	5 8.5 8.0 7.5
33	9.79 463	16	9.90 138	26	0.09 862	9.89 324	10	27	6 10.2 9.6 9.0
34	9.79 478	15	9.90 164	26	0.09 836	9.89 314	10	26	7 11.9 11.2 10.5
35	9.79 494	16	9.90 190	26	0.09 810	9.89 304	10	**25**	8 13.6 12.8 12.0
36	9.79 510	16	9.90 216	26	0.09 784	9.89 294	10	24	9 15.3 14.4 13.5
37	9.79 526	16	9.90 242	26	0.09 758	9.89 284	10	23	
38	9.79 542	16	9.90 268	26	0.09 732	9.89 274	10	22	
39	9.79 558	16	9.90 294	26	0.09 706	9.89 264	10	21	
40	9.79 573	15	9.90 320	26	0.09 680	9.89 254	10	**20**	
41	9.79 589	16	9.90 346	26	0.09 654	9.89 244	10	19	
42	9.79 605	16	9.90 371	25	0.09 629	9.89 233	11	18	
43	9.79 621	16	9.90 397	26	0.09 603	9.89 223	11	17	
44	9.79 636	15	9.90 423	26	0.09 577	9.89 213	10	16	**11 10 9**
45	9.79 652	16	9.90 449	26	0.09 551	9.89 203	10	**15**	1 1.1 1.0 0.9
46	9.79 668	16	9.90 475	26	0.09 525	9.89 193	10	14	2 2.2 2.0 1.8
47	9.79 684	16	9.90 501	26	0.09 499	9.89 183	10	13	3 3.3 3.0 2.7
48	9.79 699	15	9.90 527	26	0.09 473	9.89 173	10	12	4 4.4 4.0 3.6
49	9.79 715	16	9.90 553	26	0.09 447	9.89 162	11	11	5 5.5 5.0 4.5
50	9.79 731	16	9.90 578	25	0.09 422	9.89 152	10	**10**	6 6.6 6.0 5.4
51	9.79 746	15	9.90 604	26	0.09 396	9.89 142	10	9	7 7.7 7.0 6.3
52	9.79 762	16	9.90 630	26	0.09 370	9.89 132	10	8	8 8.8 8.0 7.2
53	9.79 778	16	9.90 656	26	0.09 344	9.89 122	10	7	9 9.9 9.0 8.1
54	9.79 793	15	9.90 682	26	0.09 318	9.89 112	10	6	
55	9.79 809	16	9.90 708	26	0.09 292	9.89 101	11	**5**	
56	9.79 825	16	9.90 734	26	0.09 266	9.89 091	10	4	
57	9.79 840	15	9.90 759	25	0.09 241	9.89 081	10	3	
58	9.79 856	16	9.90 785	26	0.09 215	9.89 071	10	2	
59	9.79 872	16	9.90 811	26	0.09 189	9.89 060	11	1	
60	9.79 887	15	9.90 837	26	0.09 163	9.89 050	10	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

51°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.79 887	16	9.90 837	26	0.09 163	9.89 050	10	**60**	
1	9.79 903	15	9.90 863	26	0.09 137	9.89 040	10	59	
2	9.79 918	16	9.90 889	25	0.09 111	9.89 030	10	58	
3	9.79 934	16	9.90 914	26	0.09 086	9.89 020	11	57	
4	9.79 950	15	9.90 940	26	0.09 060	9.89 009	10	56	
5	9.79 965	16	9.90 966	26	0.09 034	9.88 999	10	**55**	
6	9.79 981	15	9.90 992	26	0.09 008	9.88 989	11	54	
7	9.79 996	16	9.91 018	25	0.08 982	9.88 978	10	53	
8	9.80 012	15	9.91 043	26	0.08 957	9.88 968	10	52	
9	9.80 027	16	9.91 069	26	0.08 931	9.88 958	10	51	26 25
10	9.80 043	15	9.91 095	26	0.08 905	9.88 948	11	**50**	1 2.6 2.5
11	9.80 058	16	9.91 121	26	0.08 879	9.88 937	10	49	2 5.2 5.0
12	9.80 074	15	9.91 147	25	0.08 853	9.88 927	10	48	3 7.8 7.5
13	9.80 089	16	9.91 172	26	0.08 828	9.88 917	10	47	4 10.4 10.0
14	9.80 105	15	9.91 198	26	0.08 802	9.88 906	11	46	5 13.0 12.5
15	9.80 120	16	9.91 224	26	0.08 776	9.88 896	10	**45**	6 15.6 15.0
16	9.80 136	15	9.91 250	26	0.08 750	9.88 886	11	44	7 18.2 17.5
17	9.80 151	15	9.91 276	26	0.08 724	9.88 875	10	43	8 20.8 20.0
18	9.80 166	16	9.91 301	25	0.08 699	9.88 865	10	42	9 23.4 22.5
19	9.80 182	15	9.91 327	26	0.08 673	9.88 855	11	41	
20	9.80 197	16	9.91 353	26	0.08 647	9.88 844	10	**40**	
21	9.80 213	15	9.91 379	25	0.08 621	9.88 834	10	39	
22	9.80 228	16	9.91 404	26	0.08 596	9.88 824	11	38	
23	9.80 244	15	9.91 430	26	0.08 570	9.88 813	10	37	
24	9.80 259	15	9.91 456	26	0.08 544	9.88 803	10	36	
25	9.80 274	16	9.91 482	25	0.08 518	9.88 793	11	**35**	
26	9.80 290	15	9.91 507	26	0.08 493	9.88 782	10	34	16 15
27	9.80 305	15	9.91 533	26	0.08 467	9.88 772	11	33	
28	9.80 320	16	9.91 559	26	0.08 441	9.88 761	10	32	1 1.6 1.5
29	9.80 336	15	9.91 585	25	0.08 415	9.88 751	10	31	2 3.2 3.0
30	9.80 351	15	9.91 610	26	0.08 390	9.88 741	11	**30**	3 4.8 4.5
31	9.80 366	16	9.91 636	26	0.08 364	9.88 730	10	29	4 6.4 6.0
32	9.80 382	15	9.91 662	26	0.08 338	9.88 720	11	27	5 8.0 7.5
33	9.80 397	15	9.91 688	26	0.08 312	9.88 709	10	27	6 9.6 9.0
34	9.80 412	16	9.91 713	25	0.08 287	9.88 699	10	26	7 11.2 10.5
35	9.80 428	15	9 91 739	26	0.08 261	9.88 688	11	**25**	8 12.8 12.0
36	9.80 443	15	9.91 765	26	0.08 235	9.88 678	10	24	9 14.4 13.5
37	9.80 458	15	9.91 791	26	0.08 209	9.88 668	10	23	
38	9.80 473	16	9 91 816	25	0.08 184	9.88 657	11	22	
39	9.80 489	15	9 91 842	26	0.08 158	9.88 647	10	21	
40	9.80 504	15	9.91 868	26	0.08 132	9.88 636	11	**20**	
41	9.80 519	15	9.91 893	25	0.08 107	9.88 626	10	19	
42	9.80 534	15	9.91 919	26	0.08 081	9.88 615	11	18	
43	9.80 550	16	9.91 945	26	0.08 055	9.88 605	10	17	
44	9.80 565	15	9.91 971	26	0.08 029	9 88 594	11	16	11 10
45	9.80 580	15	9.91 996	25	0.08 004	9 88 584	10	**15**	1 1.1 1.0
46	9.80 595	15	9.92 022	26	0.07 978	9.88 573	11	14	2 2.2 2.0
47	9.80 610	15	9.92 048	26	0.07 952	9.88 563	10	13	3 3.3 3.0
48	9.80 625	15	9.92 073	25	0.07 927	9.88 552	11	12	4 4.4 4.0
49	9.80 641	16	9.92 099	26	0.07 901	9.88 542	10	11	5 5.5 5.0
50	9.80 656	15	9.92 125	26	0.07 875	9.88 531	11	**10**	6 6.6 6.0
51	9.80 671	15	9.92 150	25	0.07 850	9.88 521	10	9	7 7.7 7.0
52	9.80 686	15	9.92 176	26	0.07 824	9.88 510	11	8	8 8.8 8.0
53	9.80 701	15	9.92 202	26	0.07 798	9.88 499	11	7	9 9.9 9.0
54	9.80 716	15	9.92 227	25	0.07 773	9.88 489	10	6	
55	9.80 731	15	9.92 253	26	0.07 747	9.88 478	11	**5**	
56	9.80 746	15	9.92 279	26	0.07 721	9.88 468	10	4	
57	9.80 762	16	9.92 304	25	0.07 696	9.88 457	11	3	
58	9.80 777	15	9.92 330	26	0.07 670	9.88 447	10	2	
59	9.80 792	15	9.92 356	26	0.07 644	9.88 436	11	1	
60	9.80 807		9.92 381	25	0.07 619	9.88 425	11	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

40°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.80 807	15	9.92 381	26	0.07 619	9.88 425	10	60	
1	9.80 822	15	9.92 407	26	0.07 593	9.88 415	11	59	
2	9.80 837	15	9.92 433	25	0.07 567	9.88 404	10	58	
3	9.80 852	15	9.92 458	26	0.07 542	9.88 394	11	57	
4	9.80 867	15	9.92 484	26	0.07 516	9.88 383	11	56	
5	9.80 882	15	9.92 510	25	0.07 490	9.88 372	10	55	
6	9.80 897	15	9.92 535	26	0.07 465	9.88 362	11	54	
7	9.80 912	15	9.92 561	26	0.07 439	9.88 351	11	53	
8	9.80 927	15	9.92 587	26	0.07 413	9.88 340	11	52	
9	9.80 942	15	9.92 612	25	0.07 388	9.88 330	10	51	26 25
10	9.80 957	15	9.92 638	26	0.07 362	9.88 319	11	50	1 2.6 2.5
11	9.80 972	15	9.92 663	25	0.07 337	9.88 308	11	49	2 5.2 5.0
12	9.80 987	15	9.92 689	26	0.07 311	9.88 298	10	48	3 7.8 7.5
13	9.81 002	15	9.92 715	26	0.07 285	9.88 287	11	47	4 10.4 10.0
14	9.81 017	15	9.92 740	25	0.07 260	9.88 276	11	46	5 13.0 12.5
15	9.81 032	15	9.92 766	26	0.07 234	9.88 266	10	45	6 15.6 15.0
16	9.81 047	15	9.92 792	26	0.07 208	9.88 255	11	44	7 18.2 17.5
17	9.81 061	14	9.92 817	25	0.07 183	9.88 244	11	43	8 20.8 20.0
18	9.81 076	15	9.92 843	26	0.07 157	9.88 234	10	42	9 23.4 22.5
19	9.81 091	15	9.92 868	25	0.07 132	9.88 223	11	41	
20	9.81 106	15	9.92 894	26	0.07 106	9.88 212	11	40	
21	9.81 121	15	9.92 920	26	0.07 080	9.88 201	11	39	
22	9.81 136	15	9.92 945	25	0.07 055	9.88 191	10	38	
23	9.81 151	15	9.92 971	26	0.07 029	9.88 180	11	37	
24	9.81 166	14	9.92 996	25	0.07 004	9.88 169	11	36	
25	9.81 180	15	9.93 022	26	0.06 978	9.88 158	11	35	
26	9.81 195	15	9.93 048	25	0.06 952	9.88 148	10	34	15 14
27	9.81 210	15	9.93 073	26	0.06 927	9.88 137	11	33	
28	9.81 225	15	9.93 099	25	0.06 901	9.88 126	11	32	1 1.5 1.4
29	9.81 240	14	9.93 124	25	0.06 876	9.88 115	11	31	2 3.0 2.8
30	9.81 254	15	9.93 150	26	0.06 850	9.88 105	10	30	3 4.5 4.2
31	9.81 269	15	9.93 175	25	0.06 825	9.88 094	11	29	4 6.0 5.6
32	9.81 284	15	9.93 201	26	0.06 799	9.88 083	11	28	5 7.5 7.0
33	9.81 299	15	9.93 227	26	0.06 773	9.88 072	11	27	6 9.0 8.4
34	9.81 314	14	9.93 252	25	0.06 748	9.88 061	11	26	7 10.5 9.8
35	9.81 328	15	9.93 278	26	0.06 722	9.88 051	10	25	8 12.0 11.2
36	9.81 343	15	9.93 303	25	0.06 697	9.88 040	11	24	9 13.5 12.6
37	9.81 358	15	9.93 329	26	0.06 671	9.88 029	11	23	
38	9.81 372	14	9.93 354	25	0.06 646	9.88 018	11	22	
39	9.81 387	15	9.93 380	26	0.06 620	9.88 007	11	21	
40	9.81 402	15	9.93 406	26	0.06 594	9.87 996	11	20	
41	9.81 417	14	9.93 431	25	0.06 569	9.87 985	10	19	
42	9.81 431	15	9.93 457	26	0.06 543	9.87 975	11	18	
43	9.81 446	15	9.93 482	25	0.06 518	9.87 964	11	17	
44	9.81 461	15	9.93 508	26	0.06 492	9.87 953	11	16	11 10
45	9.81 475	14	9.93 533	25	0.06 467	9.87 942	11	15	1 1.1 1.0
46	9.81 490	15	9.93 559	26	0.06 441	9.87 931	11	14	2 2.2 2.0
47	9.81 505	15	9.93 584	25	0.06 416	9.87 920	11	13	3 3.3 3.0
48	9.81 519	14	9.93 610	26	0.06 390	9.87 909	11	12	4 4.4 4.0
49	9.81 534	15	9.93 636	26	0.06 364	9.87 898	11	11	5 5.5 5.0
50	9.81 549	15	9.93 661	25	0.06 339	9.87 887	11	10	6 6.6 6.0
51	9.81 563	14	9.93 687	26	0.06 313	9.87 877	10	9	7 7.7 7.0
52	9.81 578	15	9.93 712	25	0.06 288	9.87 866	11	8	8 8.8 8.0
53	9.81 592	14	9.93 738	26	0.06 262	9.87 855	11	7	9 9.9 9.0
54	9.81 607	15	9.93 763	25	0.06 237	9.87 844	11	6	
55	9.81 622	15	9.93 789	26	0.06 211	9.87 833	11	5	
56	9.81 636	14	9.93 814	25	0.06 186	9.87 822	11	4	
57	9.81 651	15	9.93 840	26	0.06 160	9.87 811	11	3	
58	9.81 665	14	9.93 865	25	0.06 135	9.87 800	11	2	
59	9.81 680	15	9.93 891	26	0.06 109	9.87 789	11	1	
60	9.81 694	14	9.93 916	25	0.06 084	9.87 778	11	0	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

49°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos.	d		PP
0	9.81 694		9.93 916		0.06 084	9.87 778		**60**	
1	9.81 709	15	9.93 942	26	0.06 058	9.87 767	11	59	
2	9.81 723	14	9.93 967	25	0.06 033	9.87 756	11	58	
3	9.81 738	15	9.93 993	26	0.06 007	9.87 745	11	57	
4	9.81 752	14	9.94 018	25	0.05 982	9.87 734	11	56	
5	9.81 767	15	9.94 044	26	0.05 956	9.87 723	11	**55**	
6	9.81 781	14	9.94 069	25	0.05 931	9.87 712	11	54	
7	9.81 796	15	9.94 095	26	0.05 905	9.87 701	11	53	
8	9.81 810	14	9.94 120	25	0.05 880	9.87 690	11	52	
9	9.81 825	15	9.94 146	26	0.05 854	9.87 679	11	51	**26 25**
10	9.81 839	14	9.94 171	25	0.05 829	9.87 668	11	**50**	1 2.6 2.5
11	9.81 854	15	9.94 197	26	0.05 803	9.87 657	11	49	2 5.2 5.0
12	9.81 868	14	9.94 222	25	0.05 778	9.87 646	11	48	3 7.8 7.5
13	9.81 882	14	9.94 248	26	0.05 752	9.87 635	11	47	4 10.4 10.0
14	9.81 897	15	9.94 273	25	0.05 727	9.87 624	11	46	5 13.0 12.5
15	9.81 911	14	9.94 299	26	0.05 701	9.87 613	12	**45**	6 15.6 15.0
16	9.81 926	15	9.94 324	25	0.05 676	9.87 601	11	44	7 18.2 17.5
17	9.81 940	14	9.94 350	26	0.05 650	9.87 590	11	43	8 20.8 20.0
18	9.81 955	15	9.94 375	25	0.05 625	9.87 579	11	42	9 23.4 22.5
19	9.81 969	14	9.94 401	26	0.05 599	9.87 568	11	41	
20	9.81 983	14	9.94 426	25	0.05 574	9.87 557	11	**40**	
21	9.81 998	15	9.94 452	26	0.05 548	9.87 546	11	39	
22	9.82 012	14	9.94 477	25	0.05 523	9.87 535	11	38	
23	9.82 026	14	9.94 503	26	0.05 497	9.87 524	11	37	
24	9.82 041	15	9.94 528	25	0.05 472	9.87 513	11	36	
25	9.82 055	14	9.94 554	26	0.05 446	9.87 501	12	**35**	
26	9.82 069	14	9.94 579	25	0.05 421	9.87 490	11	34	**15 14**
27	9.82 084	15	9.94 604	25	0.05 396	9.87 479	11	33	
28	9.82 098	14	9.94 630	26	0.05 370	9.87 468	11	32	1 1.5 1.4
29	9.82 112	14	9.94 655	25	0.05 345	9.87 457	11	31	2 3.0 2.8
30	9.82 126	14	9.94 681	26	0.05 319	9.87 446	12	**30**	3 4.5 4.2
31	9.82 141	15	9.94 706	25	0.05 294	9.87 434	11	29	4 6.0 5.6
32	9.82 155	14	9.94 732	26	0.05 268	9.87 423	11	28	5 7.5 7.0
33	9.82 169	14	9.94 757	25	0.05 243	9.87 412	11	27	6 9.0 8.4
34	9.82 184	15	9.94 783	26	0.05 217	9.87 401	11	26	7 10.5 9.8
35	9.82 198	14	9.94 808	25	0.05 192	9.87 390	11	**25**	8 12.0 11.2
36	9.82 212	14	9.94 834	26	0.05 166	9.87 378	12	24	9 13.5 12.6
37	9.82 226	14	9.94 859	25	0.05 141	9.87 367	11	23	
38	9.82 240	14	9.94 884	25	0.05 116	9.87 356	11	22	
39	9.82 255	15	9.94 910	26	0.05 090	9.87 345	11	21	
40	9.82 269	14	9.94 935	25	0.05 065	9.87 334	11	**20**	
41	9.82 283	14	9.94 961	26	0.05 039	9.87 322	12	19	
42	9.82 297	14	9.94 986	25	0.05 014	9.87 311	11	18	
43	9.82 311	14	9.95 012	26	0.04 988	9.87 300	11	17	
44	9.82 326	15	9.95 037	25	0.04 963	9.87 288	12	16	**12 11**
45	9.82 340	14	9.95 062	25	0.04 938	9.87 277	11	**15**	1 1.2 1.1
46	9.82 354	14	9.95 088	25	0.04 912	9.87 266	11	14	2 2.4 2.2
47	9.82 368	14	9.95 113	26	0.04 887	9.87 255	12	13	3 3.6 3.3
48	9.82 382	14	9.95 139	25	0.04 861	9.87 243	11	12	4 4.8 4.4
49	9.82 396	14	9.95 164	26	0.04 836	9.87 232	11	11	5 6.0 5.5
50	9.82 410	14	9.95 190	25	0.04 810	9.87 221	11	**10**	6 7.2 6.6
51	9.82 424	15	9.95 215	25	0.04 785	9.87 209	12	9	7 8.4 7.7
52	9.82 439	14	9.95 240	26	0.04 760	9.87 198	11	8	8 9.6 8.8
53	9.82 453	14	9.95 266	25	0.04 734	9.87 187	11	7	9 10.8 9.9
54	9.82 467	14	9.95 291	25	0.04 709	9.87 175	12	6	
55	9.82 481	14	9.95 317	26	0.04 683	9.87 164	11	**5**	
56	9.82 495	14	9.95 342	25	0.04 658	9.87 153	11	4	
57	9.82 509	14	9.95 368	26	0.04 632	9.87 141	12	3	
58	9.82 523	14	9.95 393	25	0.04 607	9.87 130	11	2	
59	9.82 537	14	9.95 418	25	0.04 582	9.87 119	11	1	
60	9.82 551		9.95 444	26	0.04 556	9.87 107	12	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

42°

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.82 551	14	9.95 444	25	0.04 556	9.87 107	11	**60**	
1	9.82 565	14	9.95 469	26	0.04 531	9.87 096	11	59	
2	9.82 579	14	9.95 495	25	0.04 505	9.87 085	12	58	
3	9.82 593	14	9.95 520	25	0.04 480	9.87 073	11	57	
4	9.82 607	14	9.95 545	26	0.04 455	9.87 062	12	56	
5	9.82 621	14	9.95 571	25	0.04 429	9.87 050	11	**55**	
6	9.82 635	14	9.95 596	26	0.04 404	9.87 039	11	54	
7	9.82 649	14	9.95 622	25	0.04 378	9.87 028	12	53	
8	9.82 663	14	9.95 647	25	0.04 353	9.87 016	11	52	
9	9.82 677	14	9.95 672	26	0.04 328	9.87 005	12	51	**26 25**
10	9.82 691	14	9.95 698	25	0.04 302	9.86 993	11	**50**	1 2.6 2.5
11	9.82 705	14	9.95 723	25	0.04 277	9.86 982	12	49	2 5.2 5.0
12	9.82 719	14	9.95 748	26	0.04 252	9.86 970	11	48	3 7.8 7.5
13	9.82 733	14	9.95 774	25	0.04 226	9.86 959	12	47	4 10.4 10.0
14	9.82 747	14	9.95 799	26	0.04 201	9.86 947	11	46	5 13.0 12.5
15	9.82 761	14	9.95 825	25	0.04 175	9.86 936	12	**45**	6 15.6 15.0
16	9.82 775	13	9.95 850	25	0.04 150	9.86 924	11	44	7 18.2 17.5
17	9.82 788	14	9.95 875	26	0.04 125	9.86 913	11	43	8 20.8 20.0
18	9.82 802	14	9 95 901	25	0.04 099	9.86 902	12	42	9 23.4 22.5
19	9.82 816	14	9.95 926	26	0.04 074	9.86 890	11	41	
20	9.82 830	14	9.95 952	25	0.04 048	9.86 879	12	**40**	
21	9.82 844	14	9.95 977	25	0.04 023	9.86 867	12	39	
22	9.82 858	14	9.96 002	26	0.03 998	9.86 855	11	38	
23	9.82 872	13	9.96 028	25	0.03 972	9.86 844	12	37	
24	9.82 885	14	9.96 053	25	0.03 947	9.86 832	11	36	
25	9.82 899	14	9.96 078	26	0.03 922	9.86 821	12	**35**	
26	9.82 913	14	9.96 104	25	0.03 896	9.86 809	11	34	**14 13**
27	9.82 927	14	9.96 129	26	0.03 871	9.86 798	12	33	
28	9.82 941	14	9.96 155	25	0.03 845	9.86 786	11	32	1 1.4 1.3
29	9.82 955	14	9.96 180	25	0.03 820	9.86 775	12	31	2 2.8 2.6
30	9.82 968	13	9.96 205	25	0.03 795	9.86 763	11	**30**	3 4.2 3.9
31	9.82 982	14	9.96 231	26	0.03 769	9.86 752	12	29	4 5.6 5.2
32	9.82 996	14	9.96 256	25	0.03 744	9.86 740	12	28	5 7.0 6.5
33	9 83 010	14	9.96 281	25	0.03 719	9.86 728	12	27	6 8.4 7.8
34	9.83 023	13	9.96 307	26	0.03 693	9.86 717	11	26	7 9.8 9.1
35	9.83 037	14	9.96 332	25	0.03 668	9.86 705	12	**25**	8 11.2 10.4
36	9.83 051	14	9.96 357	25	0.03 643	9.86 694	11	24	9 12.6 11.7
37	9.83 065	14	9.96 383	26	0.03 617	9.86 682	12	23	
38	9.83 078	13	9.96 408	25	0.03 592	9.86 670	12	22	
39	9 83 092	14	9.96 433	25	0.03 567	9.86 659	11	21	
40	9.83 106	14	9.96 459	26	0.03 541	9.86 647	12	**20**	
41	9.83 120	14	9.96 484	25	0.03 516	9.86 635	12	19	
42	9.83 133	13	9.96 510	26	0.03 490	9.86 624	11	18	
43	9.83 147	14	9.96 535	25	0.03 465	9.86 612	12	17	
44	9.83 161	14	9.96 560	25	0.03 440	9.86 600	12	16	**12 11**
45	9.83 174	13	9.96 586	26	0.03 414	9.86 589	11	**15**	
46	9.83 188	14	9.96 611	25	0.03 389	9.86 577	12	14	1 1.2 1.1
47	9.83 202	14	9.96 636	25	0.03 364	9.86 565	12	13	2 2.4 2.2
48	9.83 215	13	9.96 662	26	0.03 338	9.86 554	11	12	3 3.6 3.3
49	9.83 229	14	9.96 687	25	0.03 313	9.86 542	12	11	4 4.8 4.4
50	9.83 242	13	9.96 712	25	0.03 288	9.86 530	12	**10**	5 6.0 5.5
51	9.83 256	14	9.96 738	26	0.03 262	9.86 518	12	9	6 7.2 6.6
52	9.83 270	14	9.96 763	25	0.03 237	9.86 507	11	8	7 8.4 7.7
53	9.83 283	13	9.96 788	25	0.03 212	9.86 495	12	7	8 9.6 8.8
54	9.83 297	14	9.96 814	26	0.03 186	9.86 483	12	6	9 10.8 9.9
55	9.83 310	13	9.96 839	25	0.03 161	9.86 472	11	**5**	
56	9.83 324	14	9.96 864	25	0.03 136	9.86 460	12	4	
57	9.83 338	14	9.96 890	26	0.03 110	9.86 448	12	3	
58	9.83 351	13	9.96 915	25	0.03 085	9.86 436	12	2	
59	9.83 365	14	9.96 940	25	0.03 060	9.86 425	11	1	
60	9.83 378	13	9.96 966	26	0.03 034	9.86 413	12	**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

47°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.83 378	14	9.96 966	25	0.03 034	9.86 413	12	**60**	
1	9.83 392	13	9.96 991	25	0.03 009	9.86 401	12	59	
2	9.83 405	14	9.97 016	26	0.02 984	9.86 389	12	58	
3	9.83 419	13	9.97 042	25	0.02 958	9.86 377	11	57	
4	9.83 432	14	9.97 067	25	0.02 933	9.86 366	12	56	
5	9.83 446	13	9.97 092	26	0.02 908	9.86 354	12	**55**	
6	9.83 459	14	9.97 118	25	0.02 882	9.86 342	12	54	
7	9.83 473	13	9.97 143	25	0.02 857	9.86 330	12	53	
8	9.83 486	14	9.97 168	25	0.02 832	9.86 318	12	52	
9	9.83 500	13	9.97 193	26	0.02 807	9.86 306	11	51	26 25
10	9.83 513	14	9.97 219	25	0.02 781	9.86 295	12	**50**	1 2.6 2.5
11	9.83 527	13	9.97 244	25	0.02 756	9.86 283	12	49	2 5.2 5.0
12	9.83 540	14	9.97 269	26	0.02 731	9.86 271	12	48	3 7.8 7.5
13	9.83 554	13	9.97 295	25	0.02 705	9.86 259	12	47	4 10.4 10.0
14	9.83 567	14	9.97 320	25	0.02 680	9.86 247	12	46	5 13.0 12.5
15	9.83 581	13	9.97 345	26	0.02 655	9.86 235	12	**45**	6 15.6 15.0
16	9.83 594	14	9.97 371	25	0.02 629	9.86 223	12	44	7 18.2 17.5
17	9.83 608	13	9.97 396	25	0.02 604	9.86 211	11	43	8 20.8 20.0
18	9.83 621	13	9.97 421	25	0.02 579	9.86 200	12	42	9 23.4 22.5
19	9.83 634	14	9.97 447	26	0.02 553	9.86 188	12	41	
20	9.83 648	13	9.97 472	25	0.02 528	9.86 176	12	**40**	
21	9.83 661	13	9.97 497	25	0.02 503	9.86 164	12	39	
22	9.83 674	14	9.97 523	26	0.02 477	9.86 152	12	38	
23	9.83 688	13	9.97 548	25	0.02 452	9.86 140	12	37	
24	9.83 701	14	9.97 573	25	0.02 427	9.86 128	12	36	
25	9.83 715	13	9.97 598	25	0.02 402	9.86 116	12	**35**	
26	9.83 728	13	9.97 624	26	0.02 376	9.86 104	12	34	14 13
27	9.83 741	14	9.97 649	25	0.02 351	9.86 092	12	33	
28	9.83 755	13	9.97 674	25	0.02 326	9.86 080	12	32	1 1.4 1.3
29	9.83 768	13	9.97 700	26	0.02 300	9.86 068	12	31	2 2.8 2.6
30	9.83 781	14	9.97 725	25	0.02 275	9.86 056	12	**30**	3 4.2 3.9
31	9.83 795	13	9.97 750	25	0.02 250	9.86 044	12	29	4 5.6 5.2
32	9.83 808	13	9.97 776	26	0.02 224	9.86 032	12	28	5 7.0 6.5
33	9.83 821	13	9.97 801	25	0.02 199	9.86 020	12	27	6 8.4 7.8
34	9.83 834	14	9.97 826	25	0.02 174	9.86 008	12	26	7 9.8 9.1
35	9.83 848	13	9.97 851	25	0.02 149	9.85 996	12	**25**	8 11.2 10.4
36	9.83 861	13	9.97 877	26	0.02 123	9.85 984	12	24	9 12.6 11.7
37	9.83 874	13	9.97 902	25	0.02 098	9.85 972	12	23	
38	9.83 887	14	9.97 927	25	0.02 073	9.85 960	12	22	
39	9.83 901	13	9.97 953	26	0.02 047	9.85 948	12	21	
40	9.83 914	13	9.97 978	25	0.02 022	9.85 936	12	**20**	
41	9.83 927	13	9.98 003	25	0.01 997	9.85 924	12	19	
42	9.83 940	14	9.98 029	26	0.01 971	9.85 912	12	18	
43	9.83 954	13	9.98 054	25	0.01 946	9.85 900	12	17	
44	9.83 967	13	9.98 079	25	0.01 921	9.85 888	12	16	12 11
45	9.83 980	13	9.98 104	26	0.01 896	9.85 876	12	**15**	1 1.2 1.1
46	9.83 993	13	9.98 130	25	0.01 870	9.85 864	13	14	2 2.4 2.2
47	9.84 006	14	9.98 155	25	0.01 845	9.85 851	12	13	3 3.6 3.3
48	9.84 020	13	9.98 180	26	0.01 820	9.85 839	12	12	4 4.8 4.4
49	9.84 033	13	9.98 206	25	0.01 794	9.85 827	12	11	5 6.0 5.5
50	9.84 046	13	9.98 231	25	0.01 769	9.85 815	12	**10**	6 7.2 6.6
51	9.84 059	13	9.98 256	25	0.01 744	9.85 803	12	9	7 8.4 7.7
52	9.84 072	13	9.98 281	26	0.01 719	9.85 791	12	8	8 9.6 8.8
53	9.84 085	13	9.98 307	25	0.01 693	9.85 779	13	7	9 10.8 9.9
54	9.84 098	14	9.98 332	25	0.01 668	9.85 766	12	6	
55	9.84 112	13	9.98 357	26	0.01 643	9.85 754	12	**5**	
56	9.84 125	13	9.98 383	25	0.01 617	9.85 742	12	4	
57	9.84 138	13	9.98 408	25	0.01 592	9.85 730	12	3	
58	9.84 151	13	9.98 433	25	0.01 567	9.85 718	12	2	
59	9.84 164	13	9.98 458	26	0.01 542	9.85 706	13	1	
60	9.84 177		9.98 484		0.01 516	9.85 693		**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

′	L Sin	d	L Tan	c d	L Cot	L Cos	d		PP
0	9.84 177	13	9.98 484	25	0.01 516	9.85 693	12	**60**	
1	9.84 190	13	9.98 509	25	0.01 491	9.85 681	12	59	
2	9.84 203	13	9.98 534	26	0.01 466	9.85 669	12	58	
3	9.84 216	13	9.98 560	25	0.01 440	9.85 657	12	57	
4	9.84 229	13	9.98 585	25	0.01 415	9.85 645	13	56	
5	9.84 242	13	9.98 610	25	0.01 390	9.85 632	12	**55**	
6	9.84 255	14	9.98 635	26	0.01 365	9.85 620	12	54	
7	9.84 269	13	9.98 661	25	0.01 339	9.85 608	12	53	
8	9.84 282	13	9.98 686	25	0.01 314	9.85 596	13	52	
9	9.84 295	13	9.98 711	26	0.01 289	9.85 583	12	51	
10	9.84 308	13	9.98 737	25	0.01 263	9.85 571	12	**50**	
11	9.84 321	13	9.98 762	25	0.01 238	9.85 559	12	49	
12	9.84 334	13	9.98 787	25	0.01 213	9.85 547	13	48	
13	9.84 347	13	9.98 812	26	0.01 188	9.85 534	12	47	
14	9.84 360	13	9.98 838	25	0.01 162	9.85 522	12	46	
15	9.84 373	12	9.98 863	25	0.01 137	9.85 510	13	**45**	
16	9.84 385	13	9.98 888	25	0.01 112	9.85 497	12	44	
17	9.84 398	13	9.98 913	26	0.01 087	9.85 485	12	43	
18	9.84 411	13	9.98 939	25	0.01 061	9.85 473	13	42	
19	9.84 424	13	9.98 964	25	0.01 036	9.85 460	12	41	
20	9.84 437	13	9.98 989	26	0.01 011	9.85 448	12	**40**	
21	9.84 450	13	9.99 015	25	0.00 985	9.85 436	13	39	
22	9.84 463	13	9.99 040	25	0.00 960	9.85 423	12	38	
23	9.84 476	13	9.99 065	25	0.00 935	9.85 411	12	37	
24	9.84 489	13	9.99 090	25	0.00 910	9.85 399	13	36	
25	9.84 502	13	9.99 116	25	0.00 884	9.85 386	12	**35**	
26	9.84 515	13	9.99 141	25	0.00 859	9.85 374	13	34	
27	9.84 528	12	9.99 166	25	0.00 834	9.85 361	12	33	
28	9.84 540	13	9.99 191	26	0.00 809	9.85 349	12	32	
29	9.84 553	13	9.99 217	25	0.00 783	9.85 337	13	31	
30	9.84 566	13	9.99 242	25	0.00 758	9.85 324	12	**30**	
31	9.84 579	13	9.99 267	26	0.00 733	9.85 312	13	29	
32	9.84 592	13	9.99 293	25	0.00 707	9.85 299	12	28	
33	9.84 605	13	9.99 318	25	0.00 682	9.85 287	13	27	
34	9.84 618	12	9.99 343	25	0.00 657	9.85 274	12	26	
35	9.84 630	13	9.99 368	26	0.00 632	9.85 262	12	**25**	
36	9.84 643	13	9.99 394	25	0.00 606	9.85 250	13	24	
37	9.84 656	13	9.99 419	25	0.00 581	9.85 237	12	23	
38	9.84 669	13	9.99 444	25	0.00 556	9.85 225	13	22	
39	9.84 682	12	9.99 469	25	0.00 531	9.85 212	12	21	
40	9.84 694	13	9.99 495	25	0.00 505	9.85 200	13	**20**	
41	9.84 707	13	9.99 520	25	0.00 480	9.85 187	12	19	
42	9.84 720	13	9.99 545	25	0.00 455	9.85 175	13	18	
43	9.84 733	13	9.99 570	26	0.00 430	9.85 162	12	17	
44	9.84 745	12	9.99 596	25	0.00 404	9.85 150	13	16	
45	9.84 758	13	9.99 621	25	0.00 379	9.85 137	12	**15**	
46	9.84 771	13	9.99 646	26	0.00 354	9.85 125	13	14	
47	9.84 784	12	9.99 672	25	0.00 328	9.85 112	12	13	
48	9.84 796	13	9.99 697	25	0.00 303	9.85 100	13	12	
49	9.84 809	13	9.99 722	25	0.00 278	9.85 087	13	11	
50	9.84 822	13	9.99 747	26	0.00 253	9.85 074	12	**10**	
51	9.84 835	12	9.99 773	25	0.00 227	9.85 062	13	9	
52	9.84 847	13	9.99 798	25	0.00 202	9.85 049	12	8	
53	9.84 860	13	9.99 823	25	0.00 177	9.85 037	13	7	
54	9.84 873	12	9.99 848	25	0.00 152	9.85 024	12	6	
55	9.84 885	13	9.99 874	26	0.00 126	9.85 012	13	**5**	
56	9.84 898	13	9.99 899	25	0.00 101	9.84 999	13	4	
57	9.84 911	12	9.99 924	25	0.00 076	9.84 986	12	3	
58	9.84 923	13	9.99 949	25	0.00 051	9.84 974	13	2	
59	9.84 936	13	9.99 975	26	0.00 025	9.84 961	12	1	
60	9.84 949		0.00 000	25	0.00 000	9.84 949		**0**	
	L Cos	d	L Cot	c d	L Tan	L Sin	d	′	PP

	26	25	14
1	2.6	2.5	1.4
2	5.2	5.0	2.8
3	7.8	7.5	4.2
4	10.4	10.0	5.6
5	13.0	12.5	7.0
6	15.6	15.0	8.4
7	18.2	17.5	9.8
8	20.8	20.0	11.2
9	23.4	22.5	12.6

	13	12
1	1.3	1.2
2	2.6	2.4
3	3.9	3.6
4	5.2	4.8
5	6.5	6.0
6	7.8	7.2
7	9.1	8.4
8	10.4	9.6
9	11.7	10.8

45°

由此頁檢得之對數，除在第三直行外，其在第一、二、四直行者，應各附記 −10 於其後

三

S與T之值及其對數表

1. 若∝爲自0°—2°之角則

$$\log \sin \alpha = \log \alpha'' + S.$$
$$\log \tan \alpha = \log \alpha'' + T.$$
$$\log \cot \alpha = \operatorname{colog} \tan \alpha.$$

$$\log \alpha'' = \log \sin \alpha - S,$$
$$= \log \tan \alpha - T,$$
$$= \operatorname{colog} \cot \alpha - T.$$

2. 若∝爲自88°—90°之角則

$$\log \cos \alpha = \log (90° - \alpha)'' + S.$$
$$\log \cot \alpha = \log (90° - \alpha)'' + T.$$
$$\log \tan \alpha = \operatorname{colog} \cot \alpha.$$

$$\log (90° - \alpha)'' = \log \cos \alpha - S,$$
$$= \log \cot \alpha - T,$$
$$= \operatorname{colog} \tan \alpha - T,$$
$$\alpha = 90° - (90° - \alpha).$$

由下表取得S與T之值應各附記—10於其後

α″	S	log sin α
0		—
	4.68 557	
2 409		8.06 740
	4.68 556	
3 417		8.21 920
	4.68 555	
3 823		8.26 795
	4.68 555	
4 190		8.30 776
	4.68 554	
4 840		8.37 038
	4.68 553	
5 414		8.41 904
	4.68 552	
5 932		8.45 872
	4.68 551	
6 408		8.49 223
	4.68 550	
6 633		8.50 721
	4.68 550	
6 851		8.52 125
	4.68 549	
7 267		8.54 684
α″	S	log sin α

α″	T	log tan α
0		—
	4.68 557	
200		6.98 660
	4.68 558	
1 726		7.92 263
	4.68 559	
2 432		8.07 156
	4.68 560	
2 976		8.15 924
	4.68 561	
3 434		8.22 142
	4.68 562	
3 838		8.26 973
	4.68 563	
4 204		8.30 930
	4.68 564	
4 540		8.34 270
	4.68 565	
4 699		8.35 766
	4.68 565	
4 853		8.37 167
	4.68 566	
5 146		8.39 713
α″	T	log tan α

α	T	log tan α
5.146		8.39 713
	4.68 567	
5 424		8.41 999
	4.68 568	
5 689		8.44 072
	4.68 569	
5 941		8.45 955
	4.68 570	
6 184		8.47 697
	4.68 571	
6 417		8.49 305
	4.68 572	
6 642		8.50 802
	4.68 573	
6 859		8.52 200
	4.68 574	
7 070		8.53 516
	4.68 575	
7 173		8.54 145
	4.68 575	
7 274		8.54 753
α	T	log tan α

四

常用數對數表

常用數	對數	常用數	對數
圓周 $= 360°$	2.55630	$\pi^2 = 9.86960$	0.99430
$= 21{,}600'$	4.33445	$\frac{1}{\pi^2} = 0.10132$	$9.00570 - 10$
$= 1{,}296{,}000''$	6.11261		
$\pi = 3.14159$	0.49715	$\sqrt{\pi} = 1.77245$	0.24857
$2\pi = 6.28319$	0.79818		
$4\pi = 12.56637$	1.09921	$\frac{1}{\sqrt{\pi}} = 0.56419$	$9.75143 - 10$
$\frac{4\pi}{3} = 4.18879$	0.62209	$\sqrt{\frac{4}{\pi}} = 1.12838$	0.05246
$\frac{\pi}{4} = 0.78540$	$9.89509 - 10$	$\sqrt[3]{\pi} = 1.46459$	0.16572
$\frac{\pi}{6} = 0.52360$	$9.71900 - 10$	$\frac{1}{\sqrt[3]{\pi}} = 0.68278$	$9.83428 - 10$
$\frac{1}{\pi} = 0.31831$	$9.50285 - 10$	$\sqrt[3]{\frac{3}{4\pi}} = 0.62035$	$9.79264 - 10$
$\frac{1}{2\pi} = 0.15915$	$9.20182 - 10$	$\sqrt[3]{\frac{\pi}{6}} = 0.80600$	$9.90633 - 10$
$\sqrt{2} = 1.41421$	0.15052	$\sqrt[3]{2} = 1.25992$	0.10034
$\sqrt{3} = 1.73205$	0.23856	$\sqrt[3]{3} = 1.44225$	0.15904
$\sqrt{5} = 2.23606$	0.34949	$\sqrt[3]{5} = 1.70997$	0.23299
$\sqrt{6} = 2.44948$	0.38908	$\sqrt[3]{6} = 1.81712$	0.25938
1 弧度 $= \frac{180°}{\pi}$		$1° = \frac{\pi}{180}$ 弧度	
$= 57.2958°$	1.75812	$1° = 0.01745$ 弧度	$8.24188 - 10$
$= 3437.75'$	3.53627	$1' = 0.00029$ 弧度	$6.46373 - 10$
$= 206{,}264.81''$	5.31443	$1'' = 0.00000$ 弧度	$4.68557 - 10$

五　三角函數眞數表

0°

′	N Sin	N Tan	N Cot	N Cos	
0	.00000	.00000	∞	1.0000	60
1	029	029	3437.7	000	59
2	058	058	1718.9	000	58
3	087	087	1145.9	000	57
4	116	116	859.44	000	56
5	.00145	.00145	687.55	1.0000	55
6	175	175	572.96	000	54
7	204	204	491.11	000	53
8	233	233	429.72	000	52
9	262	262	381.97	000	51
10	.00291	.00291	343.77	1.0000	50
11	320	320	312.52	.99999	49
12	349	349	286.48	999	48
13	378	378	264.44	999	47
14	407	407	245.55	999	46
15	.00436	.00436	229.18	.99999	45
16	465	465	214.86	999	44
17	495	495	202.22	999	43
18	524	524	190.98	999	42
19	553	553	180.93	998	41
20	.00582	.00582	171.89	.99998	40
21	611	611	163.70	998	39
22	640	640	156.26	998	38
23	669	669	149.47	998	37
24	698	698	143.24	998	36
25	.00727	.00727	137.51	.99997	35
26	756	756	132.22	997	34
27	785	785	127.32	997	33
28	814	815	122.77	997	32
29	844	844	118.54	996	31
30	.00873	.00873	114.59	.99996	30
31	902	902	110.89	996	29
32	931	931	107.43	996	28
33	960	960	104.17	995	27
34	.00989	.00989	101.11	995	26
35	.01018	.01018	98.218	.99995	25
36	047	047	95.489	995	24
37	076	076	92.908	994	23
38	105	105	90.463	994	22
39	134	135	88.144	994	21
40	.01164	.01164	85.940	.99993	20
41	193	193	83.844	993	19
42	222	222	81.847	993	18
43	251	251	79.943	992	17
44	280	280	78.126	992	16
45	.01309	.01309	76.390	.99991	15
46	338	338	74.729	991	14
47	367	367	73.139	991	13
48	396	396	71.615	990	12
49	425	425	70.153	990	11
50	.01454	.01455	68.750	.99989	10
51	483	484	67.402	989	9
52	513	513	66.105	989	8
53	542	542	64.858	988	7
54	571	571	63.657	988	6
55	.01600	.01600	62.499	.99987	5
56	629	629	61.388	987	4
57	658	658	60.306	986	3
58	687	687	59.266	986	2
59	716	716	58.261	985	1
60	.01745	.01746	57.290	.99985	0
	N Cos	N Cot	N Tan	N Sin	′

89°

1°

′	N Sin	N Tan	N Cot	N Cos	
0	.01745	.01746	57.290	.99985	60
1	774	775	56.351	984	59
2	803	804	55.442	984	58
3	832	833	54.561	983	57
4	862	862	53.709	983	56
5	.01891	.01891	52.882	.99982	55
6	920	920	52.081	982	54
7	949	949	51.303	981	53
8	.01978	.01978	50.549	980	52
9	.02007	.02007	49.816	980	51
10	.02036	.02036	49.104	.99979	50
11	065	066	48.412	979	49
12	094	095	47.740	978	48
13	123	124	47.085	977	47
14	152	153	46.449	977	46
15	.02181	.02182	45.829	.99976	45
16	211	211	45.226	976	44
17	240	240	44.639	975	43
18	269	269	44.066	974	42
19	298	298	43.508	974	41
20	.02327	.02328	42.964	.99973	40
21	356	357	42.433	972	39
22	385	386	41.916	972	38
23	414	415	41.411	971	37
24	443	444	40.917	970	36
25	.02472	.02473	40.436	.99969	35
26	501	502	39.965	969	34
27	530	531	39.506	968	33
28	560	560	39.057	967	32
29	589	589	38.618	966	31
30	.02618	.02619	38.188	.99966	30
31	647	648	37.769	965	29
32	676	677	37.358	964	28
33	705	706	36.956	963	27
34	734	735	36.563	963	26
35	.02763	.02764	36.178	.99962	25
36	792	793	35.801	961	24
37	821	822	35.431	960	23
38	850	851	35.070	959	22
39	879	881	34.715	959	21
40	.02908	.02910	34.368	.99958	20
41	938	939	34.027	957	19
42	967	968	33.694	956	18
43	.02996	.02997	33.366	955	17
44	.03025	.03026	33.045	954	16
45	.03054	.03055	32.730	.99953	15
46	083	084	32.421	952	14
47	112	114	32.118	952	13
48	141	143	31.821	951	12
49	170	172	31.528	950	11
50	.03199	.03201	31.242	.99949	10
51	228	230	30.960	948	9
52	257	259	30.683	947	8
53	286	288	30.412	946	7
54	316	317	30.145	945	6
55	.03345	.03346	29.882	.99944	5
56	374	376	29.624	943	4
57	403	405	29.371	942	3
58	432	434	29.122	941	2
59	461	463	28.877	940	1
60	.03490	.03492	28.636	.99939	0
	N Cos	N Cot	N Tan	N Sin	′

88°

2°

′	N Sin	N Tan	N Cot	N Cos	
0	.03490	.03492	28.636	.99939	**60**
1	519	521	.399	938	59
2	548	550	28.166	937	58
3	577	579	27.937	936	57
4	606	609	.712	935	56
5	.03635	.03638	27.490	.99934	**55**
6	664	667	.271	933	54
7	693	696	27.057	932	53
8	723	725	26.845	931	52
9	752	754	.637	930	51
10	.03781	.03783	26.432	.99929	**50**
11	810	812	.230	927	49
12	839	842	26.031	926	48
13	868	871	25.835	925	47
14	897	900	.642	924	46
15	.03926	.03929	25.452	.99923	**45**
16	955	958	.264	922	44
17	.03984	.03987	25.080	921	43
18	.04013	.04016	24.898	919	42
19	042	046	.719	918	41
20	.04071	.04075	24.542	.99917	**40**
21	100	104	.368	916	39
22	129	133	.196	915	38
23	159	162	24.026	913	37
24	188	191	23.859	912	36
25	.04217	.04220	23.695	.99911	**35**
26	246	250	.532	910	34
27	275	279	.372	909	33
28	304	308	.214	907	32
29	333	337	23.058	906	31
30	.04362	.04366	22.904	.99905	**30**
31	391	395	.752	904	29
32	420	424	.602	902	28
33	449	454	.454	901	27
34	478	483	.308	900	26
35	.04507	.04512	22.164	.99898	**25**
36	536	541	22.022	897	24
37	565	570	21.881	896	23
38	594	599	.743	894	22
39	623	628	.606	893	21
40	.04653	.04658	21.470	.99892	**20**
41	682	687	.337	890	19
42	711	716	.205	889	18
43	740	745	21.075	888	17
44	769	774	20.946	886	16
45	.04798	.04803	20.819	.99885	**15**
46	827	833	.693	883	14
47	856	862	.569	882	13
48	885	891	.446	881	12
49	914	920	.325	879	11
50	.04943	.04949	20.206	.99878	**10**
51	.04972	.04978	20.087	876	9
52	.05001	.05007	19.970	875	8
53	030	037	.855	873	7
54	059	066	.740	872	6
55	.05088	.05095	19.627	.99870	**5**
56	117	124	.516	869	4
57	146	153	.405	867	3
58	175	182	.296	866	2
59	205	212	.188	864	1
60	.05234	.05241	19.081	.99863	**0**
	N Cos	N Cot	N Tan	N Sin	′

87°

3°

′	N Sin	N Tan	N Cot	N Cos	
0	.05234	.05241	19.081	.99863	**60**
1	263	270	18.976	861	59
2	292	299	.871	860	58
3	321	328	.768	858	57
4	350	357	.666	857	56
5	.05379	.05387	18.564	.99855	**55**
6	408	416	.464	854	54
7	437	445	.366	852	53
8	466	474	.268	851	52
9	495	503	.171	849	51
10	.05524	.05533	18.075	.99847	**50**
11	553	562	17.980	846	49
12	582	591	.886	844	48
13	611	620	.793	842	47
14	640	649	.702	841	46
15	.05669	.05678	17.611	.99839	**45**
16	698	708	.521	838	44
17	727	737	.431	836	43
18	756	766	.343	834	42
19	785	795	.256	833	41
20	.05814	.05824	17.169	.99831	**40**
21	844	854	17.084	829	39
22	873	883	16.999	827	38
23	902	912	.915	826	37
24	931	941	.832	824	36
25	.05960	.05970	16.750	.99822	**35**
26	.05989	.05999	.668	821	34
27	.06018	.06029	.587	819	33
28	047	058	.507	817	32
29	076	087	.428	815	31
30	.06105	.06116	16.350	.99813	**30**
31	134	145	.272	812	29
32	163	175	.195	810	28
33	192	204	.119	808	27
34	221	233	16.043	806	26
35	.06250	.06262	15.969	.99804	**25**
36	279	291	.895	803	24
37	308	321	.821	801	23
38	337	350	.748	799	22
39	366	379	.676	797	21
40	.06395	.06408	15.605	.99795	**20**
41	424	438	.534	793	19
42	453	467	.464	792	18
43	482	496	.394	790	17
44	511	525	.325	788	16
45	.06540	.06554	15.257	.99786	**15**
46	569	584	.189	784	14
47	598	613	.122	782	13
48	627	642	15.056	780	12
49	656	671	14.990	778	11
50	.06685	.06700	14.924	.99776	**10**
51	714	730	.860	774	9
52	743	759	.795	772	8
53	773	788	.732	770	7
54	802	817	.669	768	6
55	.06831	.06847	14.606	.99766	**5**
56	860	876	.544	764	4
57	889	905	.482	762	3
58	918	934	.421	760	2
59	947	963	.361	758	1
60	.06976	.06993	14.301	.99756	**0**
	N Cos	N Cot	N Tan	N Sin	′

86°

4°

′	N Sin	N Tan	N Cot	N Cos	
0	.06976	.06993	14.301	.99756	**60**
1	.07005	.07022	.241	754	59
2	034	051	.182	752	58
3	063	080	.124	750	57
4	092	110	.065	748	56
5	.07121	.07139	14.008	.99746	**55**
6	150	168	13.951	744	54
7	179	197	.894	742	53
8	208	227	.838	740	52
9	237	256	.782	738	51
10	.07266	.07285	13.727	.99736	**50**
11	295	314	.672	734	49
12	324	344	.617	731	48
13	353	373	.563	729	47
14	382	402	.510	727	46
15	.07411	.07431	13.457	.99725	**45**
16	440	461	.404	723	44
17	469	490	.352	721	43
18	498	519	.300	719	42
19	527	548	.248	716	41
20	.07556	.07578	13.197	.99714	**40**
21	585	607	.146	712	39
22	614	636	.096	710	38
23	643	665	13.046	708	37
24	672	695	12.996	705	36
25	.07701	.07724	12.947	.99703	**35**
26	730	753	.898	701	34
27	759	782	.850	699	33
28	788	812	.801	696	32
29	817	841	.754	694	31
30	.07846	.07870	12.706	.99692	**30**
31	875	899	.659	689	29
32	904	929	.612	687	28
33	933	958	.566	685	27
34	962	.07987	.520	683	26
35	.07991	.08017	12.474	.99680	**25**
36	.08020	046	.429	678	24
37	049	075	.384	676	23
38	078	104	.339	673	22
39	107	134	.295	671	21
40	.08136	.08163	12.251	.99668	**20**
41	165	192	.207	666	19
42	194	221	.163	664	18
43	223	251	.120	661	17
44	252	280	.077	659	16
45	.08281	.08309	12.035	.99657	**15**
46	310	339	11.992	654	14
47	339	368	.950	652	13
48	368	397	.909	649	12
49	397	427	.867	647	11
50	.08426	.08456	11.826	.99644	**10**
51	455	485	.785	642	9
52	484	514	.745	639	8
53	513	544	.705	637	7
54	542	573	.664	635	6
55	.08571	.08602	11.625	.99632	**5**
56	600	632	.585	630	4
57	629	661	.546	627	3
58	658	690	.507	625	2
59	687	720	.468	622	1
60	.08716	.08749	11.430	.99619	**0**
	N Cos	N Cot	N Tan	N Sin	′

85°

5°

′	N Sin	N Tan	N Cot	N Cos	
0	.08716	.08749	11.430	.99619	**60**
1	745	778	.392	617	59
2	774	807	.354	614	58
3	803	837	.316	612	57
4	831	866	.279	609	56
5	.08860	.08895	11.242	.99607	**55**
6	889	925	.205	604	54
7	918	954	.168	602	53
8	947	.08983	.132	599	52
9	.08976	.09013	.095	596	51
10	.09005	.09042	11.059	.99594	**50**
11	034	071	11.024	591	49
12	063	101	10.988	588	48
13	092	130	.953	586	47
14	121	159	.918	583	46
15	.09150	.09189	10.883	.99580	**45**
16	179	218	.848	578	44
17	208	247	.814	575	43
18	237	277	.780	572	42
19	266	306	.746	570	41
20	.09295	.09335	10.712	.99567	**40**
21	324	365	.678	564	39
22	353	394	.645	562	38
23	382	423	.612	559	37
24	411	453	.579	556	36
25	.09440	.09482	10.546	.99553	**35**
26	469	511	.514	551	34
27	498	541	.481	548	33
28	527	570	.449	545	32
29	556	600	.417	542	31
30	.09585	.09629	10.385	.99540	**30**
31	614	658	.354	537	29
32	642	688	.322	534	28
33	671	717	.291	531	27
34	700	746	.260	528	26
35	.09729	.09776	10.229	.99526	**25**
36	758	805	.199	523	24
37	787	834	.168	520	23
38	816	864	.138	517	22
39	845	893	.108	514	21
40	.09874	.09923	10.078	.99511	**20**
41	903	952	.048	508	19
42	932	.09981	10.019	506	18
43	961	.10011	9.9893	503	17
44	.09990	040	.9601	500	16
45	.10019	.10069	9.9310	.99497	**15**
46	048	099	.9021	494	14
47	077	128	.8734	491	13
48	106	158	.8448	488	12
49	135	187	.8164	485	11
50	.10164	.10216	9.7882	.99482	**10**
51	192	246	.7601	479	9
52	221	275	.7322	476	8
53	250	305	.7044	473	7
54	279	334	.6768	470	6
55	.10308	.10363	9.6493	.99467	**5**
56	337	393	.6220	464	4
57	366	422	.5949	461	3
58	395	452	.5679	458	2
59	424	481	.5411	455	1
60	.10453	.10510	9.5144	.99452	**0**
	N Cos	N Cot	N Tan	N Sin	′

84°

6°

′	N Sin	N Tan	N Cot	N Cos	
0	.10453	.10510	9.5144	.99452	60
1	482	540	.4878	449	59
2	511	569	.4614	446	58
3	540	599	.4352	443	57
4	569	628	.4090	440	56
5	.10597	.10657	9.3831	.99437	55
6	626	687	.3572	434	54
7	655	716	.3315	431	53
8	684	746	.3060	428	52
9	713	775	.2806	424	51
10	.10742	.10805	9.2553	.99421	50
11	771	834	.2302	418	49
12	800	863	.2052	415	48
13	829	893	.1803	412	47
14	858	922	.1555	409	46
15	.10887	.10952	9.1309	.99406	45
16	916	.10981	.1065	402	44
17	945	.11011	.0821	399	43
18	.10973	040	.0579	396	42
19	.11002	070	.0338	393	41
20	.11031	.11099	9.0098	.99390	40
21	060	128	8.9860	386	39
22	089	158	.9623	383	38
23	118	187	.9387	380	37
24	147	217	.9152	377	36
25	.11176	.11246	8.8919	.99374	35
26	205	276	.8686	370	34
27	234	305	.8455	367	33
28	263	335	.8225	364	32
29	291	364	.7996	360	31
30	.11320	.11394	8.7769	.99357	30
31	349	423	.7542	354	29
32	378	452	.7317	351	28
33	407	482	.7093	347	27
34	436	511	.6870	344	26
35	.11465	.11541	8.6648	.99341	25
36	494	570	.6427	337	24
37	523	600	.6208	334	23
38	552	629	.5989	331	22
39	580	659	.5772	327	21
40	.11609	.11688	8.5555	.99324	20
41	638	718	.5340	320	19
42	667	747	.5126	317	18
43	696	777	.4913	314	17
44	725	806	.4701	310	16
45	.11754	.11836	8.4490	.99307	15
46	783	865	.4280	303	14
47	812	895	.4071	300	13
48	840	924	.3863	297	12
49	869	954	.3656	293	11
50	.11898	.11983	8.3450	.99290	10
51	927	.12013	.3245	286	9
52	956	042	.3041	283	8
53	.11985	072	.2838	279	7
54	.12014	101	.2636	276	6
55	.12043	.12131	8.2434	.99272	5
56	071	160	.2234	269	4
57	100	190	.2035	265	3
58	129	219	.1837	262	2
59	158	249	.1640	258	1
60	.12187	.12278	8.1443	.99255	0
	N Cos	N Cot	N Tan	N Sin	′

83°

7°

′	N Sin	N Tan	N Cot	N Cos	
0	.12187	.12278	8.1443	.99255	60
1	216	308	.1248	251	59
2	245	338	.1054	248	58
3	274	367	.0860	244	57
4	302	397	.0667	240	56
5	.12331	.12426	8.0476	.99237	55
6	360	456	.0285	233	54
7	389	485	8.0095	230	53
8	418	515	7.9906	226	52
9	447	544	.9718	222	51
10	.12476	.12574	7.9530	.99219	50
11	504	603	.9344	215	49
12	533	633	.9158	211	48
13	562	662	.8973	208	47
14	591	692	.8789	204	46
15	.12620	.12722	7.8606	.99200	45
16	649	751	.8424	197	44
17	678	781	.8243	193	43
18	706	810	.8062	189	42
19	735	840	.7882	186	41
20	.12764	.12869	7.7704	.99182	40
21	793	899	.7525	178	39
22	822	929	.7348	175	38
23	851	958	.7171	171	37
24	880	.12988	.6996	167	36
25	.12908	.13017	7.6821	.99163	35
26	937	047	.6647	160	34
27	966	076	.6473	156	33
28	.12995	106	.6301	152	32
29	.13024	136	.6129	148	31
30	.13053	.13165	7.5958	.99144	30
31	081	195	.5787	141	29
32	110	224	.5618	137	28
33	139	254	.5449	133	27
34	168	284	.5281	129	26
35	.13197	.13313	7.5113	.99125	25
36	226	343	.4947	122	24
37	254	372	.4781	118	23
38	283	402	.4615	114	22
39	312	432	.4451	110	21
40	.13341	.13461	7.4287	.99106	20
41	370	491	.4124	102	19
42	399	521	.3962	098	18
43	427	550	.3800	094	17
44	456	580	.3639	091	16
45	.13485	.13609	7.3479	.99087	15
46	514	639	.3319	083	14
47	543	669	.3160	079	13
48	572	698	.3002	075	12
49	600	728	.2844	071	11
50	.13629	.13758	7.2687	.99067	10
51	658	787	.2531	063	9
52	687	817	.2375	059	8
53	716	846	.2220	055	7
54	744	876	.2066	051	6
55	.13773	.13906	7.1912	.99047	5
56	802	935	.1759	043	4
57	831	965	.1607	039	3
58	860	.13995	.1455	035	2
59	889	.14024	.1304	031	1
60	.13917	.14054	7.1154	.99027	0
	N Cos	N Cot	N Tan	N Sin	′

82°

8°

′	N Sin	N Tan	N Cot	N Cos	
0	.13917	.14054	7.1154	.99027	60
1	946	084	.1004	023	59
2	.13975	113	.0855	019	58
3	.14004	143	.0706	015	57
4	033	173	.0558	011	56
5	.14061	14202	7.0410	.99006	55
6	090	232	.0264	.99002	54
7	119	262	7.0117	.98998	53
8	148	291	6.9972	994	52
9	177	321	.9827	990	51
10	.14205	.14351	6.9682	98986	50
11	234	381	.9538	982	49
12	263	410	.9395	978	48
13	292	440	.9252	973	47
14	320	470	.9110	969	46
15	.14349	.14499	6.8969	.98965	45
16	378	529	.8828	961	44
17	407	559	.8687	957	43
18	436	588	.8548	953	42
19	464	618	.8408	948	41
20	.14493	.14648	6.8269	.98944	40
21	522	678	.8131	940	39
22	551	707	.7994	936	38
23	580	737	.7856	931	37
24	608	767	.7720	927	36
25	.14637	.14796	6.7584	.98923	35
26	666	826	.7448	919	34
27	695	856	.7313	914	33
28	723	886	.7179	910	32
29	752	915	.7045	906	31
30	.14781	.14945	6.6912	98902	30
31	810	.14975	.6779	897	29
32	838	.15005	.6646	893	28
33	867	034	.6514	889	27
34	896	064	.6383	884	26
35	.14925	.15094	6.6252	.98880	25
36	954	124	.6122	876	24
37	.14982	153	.5992	871	23
38	.15011	183	.5863	867	22
39	040	213	.5734	863	21
40	.15069	.15243	6.5606	.98858	20
41	097	272	.5478	854	19
42	126	302	.5350	849	18
43	155	332	.5223	845	17
44	184	362	5097	841	16
45	.15212	.15391	6.4971	.98836	15
46	241	421	.4846	832	14
47	270	451	.4721	827	13
48	299	481	.4596	823	12
49	327	511	.4472	818	11
50	.15356	.15540	6.4348	98814	10
51	385	570	.4225	809	9
52	414	600	.4103	805	8
53	442	630	.3980	800	7
54	471	660	.3859	796	6
55	.15500	.15689	6.3737	.98791	5
56	529	719	.3617	787	4
57	557	749	.3496	782	3
58	586	779	.3376	778	2
59	615	809	.3257	773	1
60	.15643	.15838	6.3138	.98769	0
	N Cos	N Cot	N Tan	N Sin	′

81°

9°

′	N Sin	N Tan	N Cot	N Cos	
0	.15643	.15838	6.3138	.98769	60
1	672	868	.3019	764	59
2	701	898	.2901	760	58
3	730	928	.2783	755	57
4	758	958	.2666	751	56
5	.15787	.15988	6.2549	.98746	55
6	816	.16017	.2432	741	54
7	845	047	.2316	737	53
8	873	077	.2200	732	52
9	902	107	.2085	728	51
10	.15931	.16137	6.1970	.98723	50
11	959	167	.1856	718	49
12	.15988	196	.1742	714	48
13	.16017	226	.1628	709	47
14	046	256	.1515	704	46
15	.16074	.16286	6.1402	.98700	45
16	103	316	.1290	695	44
17	132	346	.1178	690	43
18	160	376	.1066	686	42
19	189	405	.0955	681	41
20	.16218	.16435	6.0844	.98676	40
21	246	465	.0734	671	39
22	275	495	.0624	667	38
23	304	525	.0514	662	37
24	333	555	0405	657	36
25	.16361	.16585	6.0296	.98652	35
26	390	615	.0188	648	34
27	419	645	6.0080	643	33
28	447	674	5.9972	638	32
29	476	704	.9865	633	31
30	.16505	16734	5.9758	.98629	30
31	533	764	.9651	624	29
32	562	794	.9545	619	28
33	591	824	.9439	614	27
34	620	854	.9333	609	26
35	.16648	.16884	5.9228	.98604	25
36	677	914	.9124	600	24
37	706	944	.9019	595	23
38	734	.16974	.8915	590	22
39	763	.17004	.8811	585	21
40	.16792	17033	5.8708	.98580	20
41	820	063	.8605	575	19
42	849	093	.8502	570	18
43	878	123	.8400	565	17
44	906	153	.8298	561	16
45	.16935	.17183	5.8197	.98556	15
46	964	213	.8095	551	14
47	.16992	243	.7994	546	13
48	.17021	273	.7894	541	12
49	050	303	.7794	536	11
50	.17078	.17333	5.7694	.98531	10
51	107	363	.7594	526	9
52	136	393	.7495	521	8
53	164	423	.7396	516	7
54	193	453	.7297	511	6
55	.17222	.17483	5.7199	.98506	5
56	250	513	.7101	501	4
57	279	543	.7004	496	3
58	308	573	.6906	491	2
59	336	603	.6809	486	1
60	.17365	.17633	5.6713	.98481	0
	N Cos	N Cot	N Tan	N Sin	′

80°

10°

′	N Sin	N Tan	N Cot	N Cos	
0	.17365	.17633	5.6713	.98481	60
1	393	663	.6617	476	59
2	422	693	.6521	471	58
3	451	723	.6425	466	57
4	479	753	.6329	461	56
5	.17508	.17783	5.6234	.98455	55
6	537	813	.6140	450	54
7	565	843	.6045	445	53
8	594	873	.5951	440	52
9	623	903	.5857	435	51
10	.17651	.17933	5.5764	.98430	50
11	680	963	.5671	425	49
12	708	.17993	.5578	420	48
13	737	.18023	.5485	414	47
14	766	053	.5393	409	46
15	.17794	.18083	5.5301	.98404	45
16	823	113	.5209	399	44
17	852	143	.5118	394	43
18	880	173	.5026	389	42
19	909	203	.4936	383	41
20	.17937	.18233	5.4845	.98378	40
21	966	263	.4755	373	39
22	.17995	293	.4665	368	38
23	.18023	323	.4575	362	37
24	052	353	.4486	357	36
25	.18081	.18384	5.4397	.98352	35
26	109	414	.4308	347	34
27	138	444	.4219	341	33
28	166	474	.4131	336	32
29	195	504	.4043	331	31
30	.18224	.18534	5.3955	.98325	30
31	252	564	.3868	320	29
32	281	594	.3781	315	28
33	309	624	.3694	310	27
34	338	654	.3607	304	26
35	.18367	.18684	5.3521	.98299	25
36	395	714	.3435	294	24
37	424	745	.3349	288	23
38	452	775	.3263	283	22
39	481	805	.3178	277	21
40	.18509	.18835	5.3093	.98272	20
41	538	865	.3008	267	19
42	567	895	.2924	261	18
43	595	925	.2839	256	17
44	624	955	.2755	250	16
45	.18652	.18986	5.2672	.98245	15
46	681	.19016	.2588	240	14
47	710	046	.2505	234	13
48	738	076	.2422	229	12
49	767	106	.2339	223	11
50	18795	.19136	5.2257	.98218	10
51	824	166	.2174	212	9
52	852	197	.2092	207	8
53	881	227	.2011	201	7
54	910	257	.1929	196	6
55	.18938	.19287	5.1848	.98190	5
56	967	317	.1767	185	4
57	.18995	347	.1686	179	3
58	.19024	378	.1606	174	2
59	052	408	.1526	168	1
60	.19081	.19438	5.1446	.98163	0
	N Cos	N Cot	N Tan	N Sin	′

79°

11°

′	N Sin	N Tan	N Cot	N Cos	
0	.19081	.19438	5.1446	.98163	60
1	109	468	.1366	157	59
2	138	498	.1286	152	58
3	167	529	.1207	146	57
4	195	559	.1128	140	56
5	.19224	.19589	5.1049	.98135	55
6	252	619	.0970	129	54
7	281	649	.0892	124	53
8	309	680	.0814	118	52
9	338	710	.0736	112	51
10	.19366	.19740	5.0658	.98107	50
11	395	770	.0581	101	49
12	423	801	.0504	096	48
13	452	831	.0427	090	47
14	481	861	.0350	084	46
15	.19509	.19891	5.0273	.98079	45
16	538	921	.0197	073	44
17	566	952	.0121	067	43
18	595	.19982	5.0045	061	42
19	623	.20012	4.9969	056	41
20	.19652	.20042	4.9894	.98050	40
21	680	073	.9819	044	39
22	709	103	.9744	039	38
23	737	133	.9669	033	37
24	766	164	.9594	027	36
25	.19794	.20194	4.9520	.98021	35
26	823	224	.9446	016	34
27	851	254	.9372	010	33
28	880	285	.9298	.98004	32
29	908	315	.9225	.97998	31
30	.19937	.20345	4.9152	.97992	30
31	965	376	.9078	987	29
32	.19994	406	.9006	981	28
33	.20022	436	.8933	975	27
34	051	466	.8860	969	26
35	.20079	.20497	4.8788	.97963	25
36	108	527	.8716	958	24
37	136	557	.8644	952	23
38	165	588	.8573	946	22
39	193	618	.8501	940	21
40	.20222	.20648	4.8430	.97934	20
41	250	679	.8359	928	19
42	279	709	.8288	922	18
43	307	739	.8218	916	17
44	336	770	.8147	910	16
45	.20364	.20800	4.8077	.97905	15
46	393	830	.8007	899	14
47	421	861	.7937	893	13
48	450	891	.7867	887	12
49	478	921	.7798	881	11
50	.20507	.20952	4.7729	.97875	10
51	535	.20982	.7659	869	9
52	563	.21013	.7591	863	8
53	592	043	.7522	857	7
54	620	073	.7453	851	6
55	.20649	.21104	4.7385	.97845	5
56	677	134	.7317	839	4
57	706	164	.7249	833	3
58	734	195	.7181	827	2
59	763	225	.7114	821	1
60	.20791	.21256	4.7046	.97815	0
	N Cos	N Cot	N Tan	N Sin	′

78°

12°

′	N Sin	N Tan	N Cot	N Cos	
0	.20791	.21256	4.7046	.97815	**60**
1	820	286	.6979	809	59
2	848	316	.6912	803	58
3	877	347	.6845	797	57
4	905	377	.6779	791	56
5	.20933	.21408	4.6712	.97784	**55**
6	962	438	.6646	778	54
7	.20990	469	.6580	772	53
8	.21019	499	.6514	766	52
9	047	529	.6448	760	51
10	.21076	.21560	4.6382	.97754	**50**
11	104	590	.6317	748	49
12	132	621	.6252	742	48
13	161	651	.6187	735	47
14	189	682	.6122	729	46
15	.21218	.21712	4.6057	.97723	**45**
16	246	743	.5993	717	44
17	275	773	.5928	711	43
18	303	804	.5864	705	42
19	331	834	.5800	698	41
20	.21360	.21864	4.5736	.97692	**40**
21	388	895	.5673	686	39
22	417	925	.5609	680	38
23	445	956	.5546	673	37
24	474	.21986	.5483	667	36
25	.21502	.22017	4.5420	.97661	**35**
26	530	047	.5357	655	34
27	559	078	.5294	648	33
28	587	108	.5232	642	32
29	616	139	.5169	636	31
30	.21644	.22169	4.5107	.97630	**30**
31	672	200	.5045	623	29
32	701	231	.4983	617	28
33	729	261	.4922	611	27
34	758	292	.4860	604	26
35	.21786	.22322	4.4799	.97598	**25**
36	814	353	.4737	592	24
37	843	383	.4676	585	23
38	871	414	.4615	579	22
39	899	444	.4555	573	21
40	.21928	.22475	4.4494	.97566	**20**
41	956	505	.4434	560	19
42	.21985	536	.4373	553	18
43	.22013	567	.4313	547	17
44	041	597	.4253	541	16
45	22070	.22628	4.4194	.97534	**15**
46	098	658	.4134	528	14
47	126	689	.4075	521	13
48	155	719	.4015	515	12
49	183	750	.3956	508	11
50	.22212	.22781	4.3897	.97502	**10**
51	240	811	.3838	496	9
52	268	842	.3779	489	8
53	297	872	.3721	483	7
54	325	903	.3662	476	6
55	.22353	.22934	4.3604	.97470	**5**
56	382	964	.3546	463	4
57	410	.22995	.3488	457	3
58	438	.23026	.3430	450	2
59	467	056	.3372	444	1
60	.22495	.23087	4.3315	.97437	**0**
	N Cos	N Cot	N Tan	N Sin	′

77°

13°

′	N Sin	N Tan	N Cot	N Cos	
0	.22495	.23087	4.3315	.97437	**60**
1	523	117	.3257	430	59
2	552	148	.3200	424	58
3	580	179	.3143	417	57
4	608	209	.3086	411	56
5	.22637	.23240	4.3029	.97404	**55**
6	665	271	.2972	398	54
7	693	301	.2916	391	53
8	722	332	.2859	384	52
9	750	363	.2803	378	51
10	.22778	.23393	4.2747	.97371	**50**
11	807	424	.2691	365	49
12	835	455	.2635	358	48
13	863	485	.2580	351	47
14	892	516	.2524	345	46
15	.22920	.23547	4.2468	.97338	**45**
16	948	578	.2413	331	44
17	.22977	608	.2358	325	43
18	.23005	639	.2303	318	42
19	033	670	.2248	311	41
20	.23062	.23700	4.2193	.97304	**40**
21	090	731	.2139	298	39
22	118	762	.2084	291	38
23	146	793	.2030	284	37
24	175	823	.1976	278	36
25	.23203	.23854	4.1922	.97271	**35**
26	231	885	.1868	264	34
27	260	916	.1814	257	33
28	288	946	.1760	251	32
29	316	.23977	.1706	244	31
30	.23345	.24008	4.1653	.97237	**30**
31	373	039	.1600	230	29
32	401	069	.1547	223	28
33	429	100	.1493	217	27
34	458	131	.1441	210	26
35	.23486	.24162	4.1388	.97203	**25**
36	514	193	.1335	196	24
37	542	223	.1282	189	23
38	571	254	.1230	182	22
39	599	285	.1178	176	21
40	.23627	.24316	4.1126	.97169	**20**
41	656	347	.1074	162	19
42	684	377	.1022	155	18
43	712	408	.0970	148	17
44	740	439	.0918	141	16
45	.23769	.24470	4.0867	.97134	**15**
46	797	501	.0815	127	14
47	825	532	.0764	120	13
48	853	562	.0713	113	12
49	882	593	.0662	106	11
50	.23910	.24624	4.0611	.97100	**10**
51	938	655	.0560	093	9
52	966	686	.0509	086	8
53	.23995	717	.0459	079	7
54	.24023	747	.0408	072	6
55	.24051	.24778	4.0358	.97065	**5**
56	079	809	.0308	058	4
57	108	840	.0257	051	3
58	136	871	.0207	044	2
59	164	902	.0158	037	1
60	.24192	.24933	4.0108	.97030	**0**
	N Cos	N Cot	N Tan	N Sin	′

76°

14°

′	N Sin	N Tan	N Cot	N Cos	
0	.24192	.24933	4.0108	.97030	60
1	220	964	.0058	023	59
2	249	.24995	4.0009	015	58
3	277	.25026	3.9959	008	57
4	305	056	.9910	.97001	56
5	.24333	.25087	3.9861	.96994	55
6	362	118	.9812	987	54
7	390	149	.9763	980	53
8	418	180	.9714	973	52
9	446	211	.9665	966	51
10	.24474	.25242	3.9617	.96959	50
11	503	273	.9568	952	49
12	531	304	.9520	945	48
13	559	335	.9471	937	47
14	587	366	.9423	930	46
15	.24615	.25397	3.9375	.96923	45
16	644	428	.9327	916	44
17	672	459	.9279	909	43
18	700	490	.9232	902	42
19	728	521	.9184	894	41
20	.24756	.25552	3.9136	.96887	40
21	784	583	.9089	880	39
22	813	614	.9042	873	38
23	841	645	.8995	866	37
24	869	676	.8947	858	36
25	.24897	.25707	3.8900	.96851	35
26	925	738	.8854	844	34
27	954	769	.8807	837	33
28	.24982	800	.8760	829	32
29	.25010	831	.8714	822	31
30	.25038	.25862	3.8667	.96815	30
31	066	893	.8621	807	29
32	094	924	.8575	800	28
33	122	955	.8528	793	27
34	151	.25986	.8482	786	26
35	.25179	.26017	3.8436	.96778	25
36	207	048	.8391	771	24
37	235	079	.8345	764	23
38	263	110	.8299	756	22
39	291	141	.8254	749	21
40	.25320	.26172	3.8208	.96742	20
41	348	203	.8163	734	19
42	376	235	.8118	727	18
43	404	266	.8073	719	17
44	432	297	.8028	712	16
45	.25460	.26328	3.7983	.96705	15
46	488	359	.7938	697	14
47	516	390	.7893	690	13
48	545	421	.7848	682	12
49	573	452	.7804	675	11
50	.25601	.26483	3.7760	.96667	10
51	629	515	.7715	660	9
52	657	546	.7671	653	8
53	685	577	.7627	645	7
54	713	608	.7583	638	6
55	.25741	.26639	3.7539	.96630	5
56	769	670	.7495	623	4
57	798	701	.7451	615	3
58	826	733	.7408	608	2
59	854	764	.7364	600	1
60	.25882	.26795	3.7321	.96593	0
	N Cos	N Cot	N Tan	N Sin	′

75°

15°

′	N Sin	N Tan	N Cot	N Cos	
0	.25882	.26795	3.7321	.96593	60
1	910	826	.7277	585	59
2	938	857	.7234	578	58
3	966	888	.7191	570	57
4	.25994	920	.7148	562	56
5	.26022	.26951	3.7105	.96555	55
6	050	.26982	.7062	547	54
7	079	.27013	.7019	540	53
8	107	044	.6976	532	52
9	135	076	.6933	524	51
10	.26163	.27107	3.6891	.96517	50
11	191	138	.6848	509	49
12	219	169	.6806	502	48
13	247	201	.6764	494	47
14	275	232	.6722	486	46
15	.26303	.27263	3.6680	.96479	45
16	331	294	.6638	471	44
17	359	326	.6596	463	43
18	387	357	.6554	456	42
19	415	388	.6512	448	41
20	.26443	.27419	3.6470	.96440	40
21	471	451	.6429	433	39
22	500	482	.6387	425	38
23	528	513	.6346	417	37
24	556	545	.6305	410	36
25	.26584	.27576	3.6264	.96402	35
26	612	607	.6222	394	34
27	640	638	.6181	386	33
28	668	670	.6140	379	32
29	696	701	.6100	371	31
30	.26724	.27732	3.6059	.96363	30
31	752	764	.6018	355	29
32	780	795	.5978	347	28
33	808	826	.5937	340	27
34	836	858	.5897	332	26
35	.26864	.27889	3.5856	.96324	25
36	892	921	.5816	316	24
37	920	952	.5776	308	23
38	948	.27983	.5736	301	22
39	.26976	.28015	.5696	293	21
40	.27004	.28046	3.5656	.96285	20
41	032	077	.5616	277	19
42	060	109	.5576	269	18
43	088	140	.5536	261	17
44	116	172	.5497	253	16
45	.27144	.28203	3.5457	.96246	15
46	172	234	.5418	238	14
47	200	266	.5379	230	13
48	228	297	.5339	222	12
49	256	329	.5300	214	11
50	.27284	.28360	3.5261	.96206	10
51	312	391	.5222	198	9
52	340	423	.5183	190	8
53	368	454	.5144	182	7
54	396	486	5105	174	6
55	.27424	.28517	3 5067	.96166	5
56	452	549	.5028	158	4
57	480	580	.4989	150	3
58	508	612	.4951	142	2
59	536	643	.4912	134	1
60	.27564	.28675	3.4874	.96126	0
	N Cos	N Cot	N Tan	N Sin	′

74°

16°

′	N Sin	N Tan	N Cot	N Cos	
0	.27564	.28675	3.4874	.96126	**60**
1	592	706	.4836	118	59
2	620	738	.4798	110	58
3	648	769	.4760	102	57
4	676	801	.4722	094	56
5	.27704	.28832	3.4684	.96086	**55**
6	731	864	.4646	078	54
7	759	895	.4608	070	53
8	787	927	.4570	062	52
9	815	958	.4533	054	51
10	.27843	.28990	3.4495	.96046	**50**
11	871	.29021	.4458	037	49
12	899	053	.4420	029	48
13	927	084	.4383	021	47
14	955	116	.4346	013	46
15	.27983	.29147	3.4308	.96005	**45**
16	.28011	179	.4271	.95997	44
17	039	210	.4234	989	43
18	067	242	.4197	981	42
19	095	274	.4160	972	41
20	.28123	.29305	3.4124	.95964	**40**
21	150	337	.4087	956	39
22	178	368	.4050	948	38
23	206	400	.4014	940	37
24	234	432	.3977	931	36
25	.28262	.29463	3.3941	.95923	**35**
26	290	495	.3904	915	34
27	318	526	.3868	907	33
28	346	558	.3832	898	32
29	374	590	.3796	890	31
30	.28402	.29621	3.3759	.95882	**30**
31	429	653	.3723	874	29
32	457	685	.3687	865	28
33	485	716	.3652	857	27
34	513	748	.3616	849	26
35	.28541	.29780	3.3580	.95841	**25**
36	569	811	.3544	832	24
37	597	843	.3509	824	23
38	625	875	.3473	816	22
39	652	906	.3438	807	21
40	.28680	.29938	3.3402	.95799	**20**
41	708	.29970	.3367	791	19
42	736	.30001	.3332	782	18
43	764	033	.3297	774	17
44	792	065	.3261	766	16
45	.28820	.30097	3.3226	.95757	**15**
46	847	128	.3191	749	14
47	875	160	.3156	740	13
48	903	192	.3122	732	12
49	931	224	.3087	724	11
50	.28959	.30255	3.3052	.95715	**10**
51	.28987	287	.3017	707	9
52	.29015	319	.2983	698	8
53	042	351	.2948	690	7
54	070	382	.2914	681	6
55	.29098	.30414	3.2879	.95673	**5**
56	126	446	.2845	664	4
57	154	478	.2811	656	3
58	182	509	.2777	647	2
59	209	541	.2743	639	1
60	.29237	.30573	3.2709	.95630	**0**
	N Cos	N Cot	N Tan	N Sin	′

73°

17°

′	N Sin	N Tan	N Cot	N Cos	
0	.29237	.30573	3.2709	.95630	**60**
1	265	605	.2675	622	59
2	293	637	.2641	613	58
3	321	669	.2607	605	57
4	348	700	.2573	596	56
5	.29376	.30732	3.2539	.95588	**55**
6	404	764	.2506	579	54
7	432	796	.2472	571	53
8	460	828	.2438	562	52
9	487	860	.2405	554	51
10	.29515	.30891	3.2371	.95545	**50**
11	543	923	.2338	536	49
12	571	955	.2305	528	48
13	599	.30987	.2272	519	47
14	626	.31019	.2238	511	46
15	.29654	.31051	3.2205	.95502	**45**
16	682	083	.2172	493	44
17	710	115	.2139	485	43
18	737	147	.2106	476	42
19	765	178	.2073	467	41
20	.29793	.31210	3.2041	.95459	**40**
21	821	242	.2008	450	39
22	849	274	.1975	441	38
23	876	306	.1943	433	37
24	904	338	.1910	424	36
25	.29932	.31370	3.1878	.95415	**35**
26	960	402	.1845	407	34
27	.29987	434	.1813	398	33
28	.30015	466	.1780	389	32
29	043	498	.1748	380	31
30	.30071	.31530	3.1716	.95372	**30**
31	098	562	.1684	363	29
32	126	594	.1652	354	28
33	154	626	.1620	345	27
34	182	658	.1588	337	26
35	.30209	.31690	3.1556	.95328	**25**
36	237	722	.1524	319	24
37	265	754	.1492	310	23
38	292	786	.1460	301	22
39	320	818	.1429	293	21
40	.30348	.31850	3.1397	.95284	**20**
41	376	882	.1366	275	19
42	403	914	.1334	266	18
43	431	946	.1303	257	17
44	459	.31978	.1271	248	16
45	.30486	.32010	3.1240	.95240	**15**
46	514	042	.1209	231	14
47	542	074	.1178	222	13
48	570	106	.1146	213	12
49	597	139	.1115	204	11
50	.30625	.32171	3.1084	.95195	**10**
51	653	203	.1053	186	9
52	680	235	.1022	177	8
53	708	267	.0991	168	7
54	736	299	.0961	159	6
55	.30763	.32331	3.0930	95150	**5**
56	791	363	.0899	142	4
57	819	396	.0868	133	3
58	846	428	.0838	124	2
59	874	460	.0807	115	1
60	.30902	.32492	3.0777	.95106	**0**
	N Cos	N Cot	N Tan	N Sin	′

72°

18°

′	N Sin	N Tan	N Cot	N Cos	
0	.30902	.32492	3.0777	.95106	60
1	929	524	.0746	097	59
2	957	556	.0716	088	58
3	.30985	588	.0686	079	57
4	.31012	621	.0655	070	56
5	.31040	.32653	3.0625	.95061	55
6	068	685	.0595	052	44
7	095	717	.0565	043	53
8	123	749	.0535	033	52
9	151	782	.0505	024	51
10	.31178	.32814	3.0475	.95015	50
11	206	846	.0445	.95006	49
12	233	878	.0415	.94997	48
13	261	911	.0385	988	47
14	289	943	.0356	979	46
15	.31316	.32975	3.0326	.94970	45
16	344	.33007	.0296	961	44
17	372	040	.0267	952	43
18	399	072	.0237	943	42
19	427	104	.0208	933	41
20	.31454	.33136	3.0178	.94924	40
21	482	169	.0149	915	39
22	510	201	.0120	906	38
23	537	233	.0090	897	37
24	565	266	.0061	888	36
25	.31593	.33298	3.0032	.94878	35
26	620	330	3.0003	869	34
27	648	363	2.9974	860	33
28	675	395	.9945	851	32
29	703	427	.9916	842	31
30	.31730	.33460	2.9887	.94832	30
31	758	492	.9858	823	29
32	786	524	.9829	814	28
33	813	557	.9800	805	27
34	841	589	.9772	795	26
35	.31868	.33621	2.9743	.94786	25
36	896	654	.9714	777	24
37	923	686	.9686	768	23
38	951	718	.9657	758	22
39	.31979	751	.9629	749	21
40	.32006	.33783	2.9600	.94740	20
41	034	816	.9572	730	19
42	061	848	.9544	721	18
43	089	881	.9515	712	17
44	116	913	.9487	702	16
45	.32144	.33945	2.9459	.94693	15
46	171	.33978	.9431	684	14
47	199	.34010	.9403	674	13
48	227	043	.9375	665	12
49	254	075	.9347	656	11
50	.32282	.34108	2.9319	.94646	10
51	309	140	.9291	637	9
52	337	173	.9263	627	8
53	364	205	.9235	618	7
54	392	238	.9208	609	6
55	.32419	.34270	2.9180	.94599	5
56	447	303	.9152	590	4
57	474	335	.9125	580	3
58	502	368	.9097	571	2
59	529	400	.9070	561	1
60	.32557	.34433	2.9042	.94552	0
	N Cos	N Cot	N Tan	N Sin	′

71°

19°

′	N Sin	N Tan	N Cot	N Cos	
0	.32557	.34433	2.9042	.94552	60
1	584	465	.9015	542	59
2	612	498	.8987	533	58
3	639	530	.8960	523	57
4	667	563	.8933	514	56
5	.32694	.34596	2.8905	.94504	55
6	722	628	.8878	495	54
7	749	661	.8851	485	53
8	777	693	.8824	476	52
9	804	726	.8797	466	51
10	.32832	.34758	2.8770	.94457	50
11	859	791	.8743	447	49
12	887	824	.8716	438	48
13	914	856	.8689	428	47
14	942	889	.8662	418	46
15	.32969	.34922	2.8636	.94409	45
16	.32997	954	.8609	399	44
17	.33024	.34987	.8582	390	43
18	051	.35020	.8556	380	42
19	079	052	.8529	370	41
20	.33106	.35085	2.8502	.94361	40
21	134	118	.8476	351	39
22	161	150	.8449	342	38
23	189	183	.8423	332	37
24	216	216	.8397	322	36
25	.33244	.35248	2.8370	.94313	35
26	271	281	.8344	303	34
27	298	314	.8318	293	33
28	326	346	.8291	284	32
29	353	379	.8265	274	31
30	.33381	.35412	2.8239	.94264	30
31	408	445	.8213	254	29
32	436	477	.8187	245	28
33	463	510	.8161	235	27
34	490	543	.8135	225	26
35	.33518	.35576	2.8109	.94215	25
36	545	608	.8083	206	24
37	573	641	.8057	196	23
38	600	674	.8032	186	22
39	627	707	.8006	176	21
40	.33655	.35740	2.7980	.94167	20
41	682	772	.7955	157	19
42	710	805	.7929	147	18
43	737	838	.7903	137	17
44	764	871	.7878	127	16
45	.33792	.35904	2.7852	.94118	15
46	819	937	.7827	108	14
47	846	.35969	.7801	098	13
48	874	.36002	.7776	088	12
49	901	035	.7751	078	11
50	.33929	.36068	2.7725	.94068	10
51	956	101	.7700	058	9
52	.33983	134	.7675	049	8
53	.34011	167	.7650	039	7
54	038	199	.7625	029	6
55	.34065	.36232	2.7600	.94019	5
56	093	265	.7575	.94009	4
57	120	298	.7550	.93999	3
58	147	331	.7525	989	2
59	175	364	.7500	979	1
60	.34202	.36397	2.7475	.93969	0
	N Cos	N Cot	N Tan	N Sin	′

70°

20°

′	N Sin	N Tan	N Cot	N Cos	
0	.34202	36397	2.7475	.93969	60
1	229	430	.7450	959	59
2	257	463	.7425	949	58
3	284	496	.7400	939	57
4	311	529	.7376	929	56
5	.34339	.36562	2.7351	.93919	55
6	366	595	.7326	909	54
7	393	628	.7302	899	53
8	421	661	.7277	889	52
9	448	694	.7253	879	51
10	.34475	.36727	2.7228	.93869	50
11	503	760	.7204	859	49
12	530	793	.7179	849	48
13	557	826	.7155	839	47
14	584	859	.7130	829	46
15	.34612	.36892	2.7106	.93819	45
16	639	925	.7082	809	44
17	666	958	.7058	799	43
18	694	.36991	.7034	789	42
19	721	.37024	.7009	779	41
20	.34748	.37057	2.6985	.93769	40
21	775	090	.6961	759	39
22	803	123	.6937	748	38
23	830	157	.6913	738	37
24	857	190	.6889	728	36
25	.34884	.37223	2.6865	.93718	35
26	912	256	.6841	708	34
27	939	289	.6818	698	33
28	966	322	.6794	688	32
29	.34993	355	.6770	677	31
30	.35021	.37388	2.6746	.93667	30
31	048	422	.6723	657	29
32	075	455	.6699	647	28
33	102	488	.6675	637	27
34	130	521	.6652	626	26
35	.35157	.37554	2.6628	.93616	25
36	184	588	.6605	606	24
37	211	621	.6581	596	23
38	239	654	.6558	585	22
39	266	687	.6534	575	21
40	.35293	.37720	2.6511	.93565	20
41	320	754	.6488	555	19
42	347	787	.6464	544	18
43	375	820	.6441	534	17
44	402	853	.6418	524	16
45	.35429	.37887	2.6395	.93514	15
46	456	920	6371	503	14
47	484	953	.6348	493	13
48	511	.37986	.6325	483	12
49	538	.38020	.6302	472	11
50	.35565	.38053	2.6279	.93462	10
51	592	086	.6256	452	9
52	619	120	.6233	441	8
53	647	153	.6210	431	7
54	674	186	.6187	420	6
55	.35701	.38220	2.6165	.93440	5
56	728	253	.6142	400	4
57	755	286	.6119	389	3
58	782	320	.6096	379	2
59	810	353	.6074	368	1
60	.35837	.38386	2.6051	.93358	0
	N Cos	N Cot	N Tan	N Sin	′

69°

21

′	N Sin	N Tan	N Cot	N Cos	
0	.35837	.38386	2.6051	.93358	60
1	864	420	.6028	348	59
2	891	453	.6006	337	58
3	918	487	.5983	327	57
4	945	520	.5961	316	56
5	.35973	.38553	2.5938	.93306	55
6	.36000	587	.5916	295	54
7	027	620	.5893	285	53
8	054	654	.5871	274	52
9	081	687	.5848	264	51
10	.36108	.38721	2.5826	.93253	50
11	135	754	.5804	243	49
12	162	787	.5782	232	48
13	190	821	.5759	222	47
14	217	854	.5737	211	46
15	.36244	.38888	2.5715	.93201	45
16	271	921	.5693	190	44
17	298	955	.5671	180	43
18	325	.38988	.5649	169	42
19	352	.39022	.5627	159	41
20	.36379	.39055	2.5605	.93148	40
21	406	089	.5583	137	39
22	434	122	.5561	127	38
23	461	156	.5539	116	37
24	488	190	.5517	106	36
25	.36515	.39223	2.5495	.93095	35
26	542	257	.5473	084	34
27	569	290	.5452	074	33
28	596	324	.5430	063	32
29	623	357	.5408	052	31
30	.36650	.39391	2.5386	.93042	30
31	677	425	.5365	031	29
32	704	458	.5343	020	28
33	731	492	.5322	.93010	27
34	758	526	.5300	.92999	26
35	.36785	.39559	2.5279	.92988	25
36	812	593	.5257	978	24
37	839	626	.5236	967	23
38	867	660	.5214	956	22
39	894	694	.5193	945	21
40	.36921	.39727	2.5172	.92935	20
41	948	761	.5150	924	19
42	.36975	795	.5129	913	18
43	.37002	829	.5108	902	17
44	029	862	.5086	892	16
45	.37056	.39896	2.5065	.92881	15
46	083	930	.5044	870	14
47	110	963	.5023	859	13
48	137	.39997	.5002	849	12
49	164	.40031	.4981	838	11
50	.37191	.40065	2.4960	.92827	10
51	218	098	.4939	816	9
52	245	132	.4918	805	8
53	272	166	.4897	794	7
54	299	200	.4876	784	6
55	.37326	.40234	2.4855	.92773	5
56	353	267	.4834	762	4
57	380	301	.4813	751	3
58	407	335	.4792	740	2
59	434	369	.4772	729	1
60	.37461	.40403	2.4751	.92718	0
	N Cos	N Cot	N Tan	N Sin	′

68°

22°

′	N Sin	N Tan	N Cot	N Cos	
0	.37461	.40403	2.4751	.92718	60
1	488	436	.4730	707	59
2	515	470	.4709	697	58
3	542	504	.4689	686	57
4	569	538	.4668	675	56
5	.37595	.40572	2.4648	.92664	55
6	622	606	.4627	653	54
7	649	640	.4606	642	53
8	676	674	.4586	631	52
9	703	707	.4566	620	51
10	.37730	.40741	2.4545	.92609	50
11	757	775	.4525	598	49
12	784	809	.4504	587	48
13	811	843	.4484	576	47
14	838	877	.4464	565	46
15	.37865	.40911	2.4443	.92554	45
16	892	945	.4423	543	44
17	919	.40979	.4403	.532	43
18	946	.41013	.4383	521	42
19	973	047	.4362	510	41
20	.37999	.41081	2.4342	.92499	40
21	.38026	115	.4322	488	39
22	053	149	.4302	477	38
23	080	183	.4282	466	37
24	107	217	.4262	455	36
25	.38134	.41251	2.4242	.92444	35
26	161	285	.4222	432	34
27	188	319	.4202	421	33
28	215	353	.4182	410	32
29	241	387	.4162	399	31
30	.38268	.41421	2.4142	.92388	30
31	295	455	.4122	377	29
32	322	490	.4102	366	28
33	349	524	.4083	355	27
34	376	558	.4063	343	26
35	.38403	.41592	2.4043	.92332	25
36	430	626	.4023	321	24
37	456	660	.4004	310	23
38	483	694	.3984	299	22
39	510	728	.3964	287	21
40	.38537	.41763	2.3945	.92276	20
41	564	797	.3925	265	19
42	591	831	.3906	254	18
43	617	865	.3886	243	17
44	644	899	.3867	231	16
45	.38671	.41933	2.3847	.92220	15
46	698	.41968	.3828	209	14
47	725	.42002	.3808	198	13
48	752	036	.3789	186	12
49	778	070	.3770	175	11
50	.38805	.42105	2.3750	.92164	10
51	832	139	.3731	152	9
52	859	173	.3712	141	8
53	886	207	.3693	130	7
54	912	242	.3673	119	6
55	.38939	.42276	2.3654	.92107	5
56	966	310	.3635	096	4
57	.38993	345	.3616	085	3
58	.39020	379	.3597	073	2
59	046	413	.3578	062	1
60	.39073	.42447	2.3559	.92050	0
	N Cos	N Cot	N Tan	N Sin	′

67°

23°

′	N Sin	N Tan	N Cot	N Cos	
0	.39073	.42447	2.3559	.92050	60
1	100	482	.3539	039	59
2	127	516	.3520	028	58
3	153	551	.3501	016	57
4	180	585	.3483	.92005	56
5	.39207	.42619	2.3464	.91994	55
6	234	654	.3445	982	54
7	260	688	.3426	971	53
8	287	722	.3407	959	52
9	314	757	.3388	948	51
10	.39341	.42791	2.3369	.91936	50
11	367	826	.3351	925	49
12	394	860	.3332	914	48
13	421	894	.3313	902	47
14	448	929	.3294	891	46
15	.39474	.42963	2.3276	.91879	45
16	501	.42998	.3257	868	44
17	528	.43032	.3238	856	43
18	555	067	.3220	845	42
19	581	101	.3201	833	41
20	.39608	.43136	2.3183	.91822	40
21	635	170	.3164	810	39
22	661	205	.3146	799	38
23	688	239	.3127	787	37
24	715	274	.3109	775	36
25	.39741	.43308	2.3090	.91764	35
26	768	343	.3072	752	34
27	795	378	.3053	741	33
28	822	412	.3035	729	32
29	848	447	.3017	718	31
30	.39875	.43481	2.2998	.91706	30
31	902	516	.2980	694	29
32	928	550	.2962	683	28
33	955	585	.2944	671	27
34	.39982	620	.2925	660	26
35	.40008	.43654	2.2907	.91648	25
36	035	689	.2889	636	24
37	062	724	.2871	625	23
38	088	758	.2853	613	22
39	115	793	.2835	601	21
40	.40141	.43828	2.2817	.91590	20
41	168	862	.2799	578	19
42	195	897	.2781	566	18
43	221	932	.2763	555	17
44	248	.43966	.2745	543	16
45	.40275	.44001	2.2727	91531	15
46	301	036	.2709	519	14
47	328	071	.2691	508	13
48	355	105	.2673	496	12
49	381	140	.2655	484	11
50	.40408	.44175	2.2637	91472	10
51	434	210	.2620	461	9
52	461	244	.2602	449	8
53	488	279	.2584	437	7
54	514	314	.2566	425	6
55	.40541	.44349	2.2549	91414	5
56	567	384	.2531	402	4
57	594	418	.2513	390	3
58	621	453	.2496	378	2
59	647	488	.2478	366	1
60	.40674	.44523	2.2460	.91355	0
	N Cos	N Cot	N Tan	N Sin	′

66°

24°

′	N Sin	N Tan	N Cot	N Cos	
0	.40674	.44523	2.2460	.91357	60
1	700	558	.2443	343	59
2	727	593	.2425	331	58
3	753	627	.2408	319	57
4	780	662	.2390	307	56
5	.40806	.44697	2.2373	.91295	55
6	833	732	.2355	283	54
7	860	767	.2338	272	53
8	886	802	.2320	260	52
9	913	837	.2303	248	51
10	.40939	.44872	2.2286	.91236	50
11	966	907	.2268	224	49
12	.40992	942	.2251	212	48
13	.41019	.44977	.2234	200	47
14	045	.45012	.2216	188	46
15	.41072	.45047	2.2199	.91176	45
16	098	082	.2182	164	44
17	125	117	.2165	152	43
18	151	152	.2148	140	42
19	178	187	.2130	128	41
20	.41204	.45222	2.2113	.91116	40
21	231	257	.2096	104	39
22	257	292	.2079	092	38
23	284	327	.2062	080	37
24	310	362	.2045	068	36
25	.41337	.45397	2.2028	.91056	35
26	363	432	.2011	044	34
27	390	467	.1994	032	33
28	416	502	.1977	020	32
29	443	538	.1960	.91008	31
30	.41469	.45573	2.1943	.90996	30
31	496	608	.1926	984	29
32	522	643	.1909	972	28
33	549	678	.1892	960	27
34	575	713	.1876	948	26
35	.41602	.45748	2.1859	.90936	25
36	628	784	.1842	924	24
37	655	819	.1825	911	23
38	681	854	.1808	899	22
39	707	889	.1792	887	21
40	.41734	.45924	2.1775	.90875	20
41	760	960	.1758	863	19
42	787	.45995	.1742	851	18
43	813	.46030	.1725	839	17
44	840	065	.1708	826	16
45	.41866	.46101	2.1692	.90814	15
46	892	136	.1675	802	14
47	919	171	.1659	790	13
48	945	206	.1642	778	12
49	972	242	.1625	766	11
50	.41998	.46277	2.1609	.90753	10
51	.42024	312	.1592	741	9
52	051	348	.1576	729	8
53	077	383	.1560	717	7
54	104	418	.1543	704	6
55	.42130	.46454	2.1527	.90692	5
56	156	489	.1510	680	4
57	183	525	.1494	668	3
58	209	560	.1478	655	2
59	235	595	.1461	643	1
60	.42262	.46631	2.1445	.90631	0
	N Cos	N Cot	N Tan	N Sin	′

65°

25°

′	N Sin	N Tan	N Cot	N Cos	
0	.42262	.46631	2.1445	.90631	60
1	288	666	.1429	618	59
2	315	702	.1413	606	58
3	341	737	.1396	594	57
4	367	772	.1380	582	56
5	.42394	.46808	2.1364	.90569	55
6	420	843	.1348	557	54
7	446	879	.1332	545	53
8	473	914	.1315	532	52
9	499	950	.1299	520	51
10	.42525	.46985	2.1283	.90507	50
11	552	.47021	.1267	495	49
12	578	056	.1251	483	48
13	604	092	.1235	470	47
14	631	128	.1219	458	46
15	.42657	.47163	2.1203	.90446	45
16	683	199	.1187	433	44
17	709	234	.1171	421	43
18	736	270	.1155	408	42
19	762	305	.1139	396	41
20	.42788	.47341	2.1123	.90383	40
21	815	377	.1107	371	39
22	841	412	.1092	358	38
23	867	448	.1076	346	37
24	894	483	.1060	334	36
25	.42920	.47519	2.1044	.90321	35
26	946	555	.1028	309	34
27	972	590	.1013	296	33
28	.42999	626	.0997	284	32
29	.43025	662	.0981	271	31
30	.43051	.47698	2.0965	.90259	30
31	077	733	.0950	246	29
32	104	769	.0934	233	28
33	130	805	.0918	221	27
34	156	840	.0903	208	26
35	.43182	.47876	2.0887	.90196	25
36	209	912	.0872	183	24
37	235	948	.0856	171	23
38	261	.47984	.0840	158	22
39	287	.48019	.0825	146	21
40	.43313	.48055	2.0809	.90133	20
41	340	091	.0794	120	19
42	366	127	.0778	108	18
43	392	163	.0763	095	17
44	418	198	.0748	082	16
45	.43445	.48234	2.0732	.90070	15
46	471	270	.0717	057	14
47	497	306	.0701	045	13
48	523	342	.0686	032	12
49	549	378	.0671	019	11
50	.43575	.48414	2.0655	.90007	10
51	602	450	.0640	.89994	9
52	628	486	.0625	981	8
53	654	521	.0609	968	7
54	680	557	.0594	956	6
55	.43706	.48593	2.0579	.89943	5
56	733	629	.0564	930	4
57	759	665	.0549	918	3
58	785	701	.0533	905	2
59	811	737	.0518	892	1
60	.43837	.48773	2.0503	.89879	0
	N Cos	N Cot	N Tan	N Sin	′

64°

26°

′	N Sin	N Tan	N Cot	N Cos	
0	.43837	.48773	2.0503	.89879	**60**
1	863	809	.0488	867	59
2	889	845	.0473	854	58
3	916	881	.0458	841	57
4	942	917	.0443	828	56
5	.43968	.48953	2.0428	.89816	**55**
6	.43994	.48989	.0413	803	54
7	.44020	.49026	.0398	790	53
8	046	062	.0383	777	52
9	072	098	.0368	764	51
10	.44098	.49134	2.0353	.89752	**50**
11	124	170	.0338	739	49
12	151	206	.0323	726	48
13	177	242	.0308	713	47
14	203	278	.0293	700	46
15	.44229	.49315	2.0278	.89687	**45**
16	255	351	.0263	674	44
17	281	387	.0248	662	43
18	307	423	.0233	649	42
19	333	459	.0219	636	41
20	.44359	.49495	2.0204	.89623	**40**
21	385	532	.0189	610	39
22	411	568	.0174	597	38
23	437	604	.0160	584	37
24	464	640	.0145	571	36
25	.44490	.49677	2.0130	.89558	**35**
26	516	713	.0115	545	34
27	542	749	.0101	532	33
28	568	786	.0086	519	32
29	594	822	.0072	506	31
30	.44620	.49858	2.0057	.89493	**30**
31	646	894	.0042	480	29
32	672	931	.0028	467	28
33	698	.49967	2.0013	454	27
34	724	.50004	1.9999	441	26
35	.44750	.50040	1.9984	.89428	**25**
36	776	076	.9970	415	24
37	802	113	.9955	402	23
38	828	149	.9941	389	22
39	854	185	.9926	376	21
40	.44880	.50222	1.9912	.89363	**20**
41	906	258	.9897	350	19
42	932	295	.9883	337	18
43	958	331	.9868	324	17
44	.44984	368	.9854	311	16
45	.45010	.50404	1.9840	.89298	**15**
46	036	441	.9825	285	14
47	062	477	.9811	272	13
48	088	514	.9797	259	12
49	114	550	.9782	245	11
50	.45140	.50587	1.9768	.89232	**10**
51	166	623	.9754	219	9
52	192	660	.9740	206	8
53	218	696	.9725	193	7
54	243	733	.9711	180	6
55	.45269	.50769	1.9697	.89167	**5**
56	295	806	.9683	153	4
57	321	843	.9669	140	3
58	347	879	.9654	127	2
59	373	916	.9640	114	1
60	.45399	.50953	1.9626	.89101	**0**
	N Cos	N Cot	N Tan	N Sin	′

63°

27°

′	N Sin	N Tan	N Cot	N Cos	
0	.45399	.50953	1.9626	.89101	**60**
1	425	.50989	.9612	087	59
2	451	.51026	.9598	074	58
3	477	063	.9584	061	57
4	503	099	.9570	048	56
5	.45529	.51136	1.9556	.89035	**55**
6	554	173	.9542	021	54
7	580	209	.9528	.89008	53
8	606	246	.9514	.88995	52
9	632	283	.9500	981	51
10	45658	.51319	1.9486	.88968	**50**
11	684	356	.9472	955	49
12	710	393	.9458	942	48
13	736	403	.9444	928	47
14	762	467	.9430	915	46
15	.45787	.51503	1.9416	.88902	**45**
16	813	540	.9402	888	44
17	839	577	.9388	875	43
18	865	614	.9375	862	42
19	891	651	.9361	848	41
20	.45917	.51688	1.9347	.88835	**40**
21	942	724	.9333	822	39
22	968	761	.9319	808	38
23	.45994	798	.9306	795	37
24	.46020	835	9292	782	36
25	.46046	.51872	1.9278	.88768	**35**
26	072	909	.9265	755	34
27	097	946	.9251	741	33
28	123	.51983	.9237	728	32
29	149	.52020	.9223	715	31
30	.46175	.52057	1.9210	.88701	**30**
31	201	094	.9196	688	29
32	226	131	.9183	674	28
33	252	168	.9169	661	27
34	278	205	.9155	647	26
35	.46304	.52242	1.9142	.88634	**25**
36	330	279	.9128	620	24
37	355	316	.9115	607	23
38	381	353	.9101	593	22
39	407	390	.9088	580	21
40	.46433	.52427	1.9074	.88566	**20**
41	458	464	.9061	553	19
42	484	501	.9047	539	18
43	510	538	.9034	526	17
44	536	575	.9020	512	16
45	.46561	.52613	1.9007	.88499	**15**
46	587	650	.8993	485	14
47	613	687	.8980	472	13
48	639	724	.8967	458	12
49	664	761	.8953	445	11
50	.46690	.52798	1.8940	.88431	**10**
51	716	836	.8927	417	9
52	742	873	.8913	404	8
53	767	910	.8900	390	7
54	793	947	.8887	377	6
55	.46819	.52985	1.8873	.88363	**5**
56	844	.53022	.8860	349	4
57	870	059	.8847	336	3
58	896	096	.8834	322	2
59	921	134	.8820	308	1
60	.46947	.53171	1.8807	.88295	**0**
	N Cos	N Cot	N Tan	N Sin	′

62°

28°

′	N Sin	N Tan	N Cot	N Cos	
0	.46947	.53171	1.8807	.88295	**60**
1	973	208	.8794	281	59
2	.46999	246	.8781	267	58
3	.47024	283	.8768	254	57
4	050	320	.8755	240	56
5	.47076	.53358	1.8741	.88226	**55**
6	101	395	.8728	213	54
7	127	432	.8715	199	53
8	153	470	.8702	185	52
9	178	507	.8689	172	51
10	.47204	.53545	1.8676	.88158	**50**
11	229	582	.8663	144	49
12	255	620	.8650	130	48
13	281	657	.8637	117	47
14	306	694	.8624	103	46
15	.47332	.53732	1.8611	.88089	**45**
16	358	769	.8598	075	44
17	383	807	.8585	062	43
18	409	844	.8572	048	42
19	434	882	.8559	034	41
20	.47460	.53920	1.8546	.88020	**40**
21	486	957	.8533	.88006	39
22	511	.53995	.8520	.87993	38
23	537	.54032	.8507	979	37
24	562	070	.8495	965	36
25	.47588	.54107	1.8482	.87951	**35**
26	614	145	.8469	937	34
27	639	183	.8456	923	33
28	665	220	.8443	909	32
29	690	258	.8430	896	31
30	.47716	.54296	1.8418	.87882	**30**
31	741	333	.8405	868	29
32	767	371	.8392	854	28
33	793	409	.8379	840	27
34	818	446	.8367	826	26
35	.47844	.54484	1.8354	.87812	**25**
36	869	522	.8341	798	24
37	895	560	.8329	784	23
38	920	597	.8316	770	22
39	946	635	.8303	756	21
40	.47971	.54673	1.8291	.87743	**20**
41	.47997	711	.8278	729	19
42	.48022	748	.8265	715	18
43	048	786	.8253	701	17
44	073	824	.8240	687	16
45	.48099	.54862	1.8228	.87673	**15**
46	124	900	.8215	659	14
47	150	938	.8202	645	13
48	175	.54975	.8190	631	12
49	201	.55013	.8177	617	11
50	.48226	.55051	1.8165	.87603	**10**
51	252	089	.8152	589	9
52	277	127	.8140	575	8
53	303	165	.8127	561	7
54	328	203	.8115	546	6
55	.48354	.55241	1.8103	.87532	**5**
56	379	279	.8090	518	4
57	405	317	.8078	504	3
58	430	355	.8065	490	2
59	456	393	.8053	476	1
60	48481	.55431	1.8040	87462	**0**
	N Cos	N Cot	N Tan	N Sin	′

61°

29°

′	N Sin	N Tan	N Cot	N Cos	
0	.48481	.55431	1.8040	.87462	**60**
1	506	469	.8028	448	59
2	532	507	.8016	434	58
3	557	545	.8003	420	57
4	583	583	.7991	406	56
5	.48608	.55621	1.7979	.87391	**55**
6	634	659	.7966	377	54
7	659	697	.7954	363	53
8	684	736	.7942	349	52
9	710	774	.7930	335	51
10	.48735	.55812	1.7917	.87321	**50**
11	761	850	.7905	306	49
12	786	888	.7893	292	48
13	811	926	.7881	278	47
14	837	.55964	.7868	264	46
15	.48862	.56003	1.7856	.87250	**45**
16	888	041	.7844	235	44
17	913	079	.7832	221	43
18	938	117	.7820	207	42
19	964	156	.7808	193	41
20	.48989	.56194	1.7796	.87178	**40**
21	.49014	232	.7783	164	39
22	040	270	.7771	150	38
23	065	309	.7759	136	37
24	090	347	.7747	121	36
25	.49116	.56385	1.7735	.87107	**35**
26	141	424	.7723	093	34
27	166	462	.7711	079	33
28	192	501	.7699	064	32
29	217	539	.7687	050	31
30	.49242	.56577	1.7675	.87036	**30**
31	268	616	.7663	021	29
32	293	654	.7651	.87007	28
33	318	693	.7639	.86993	27
34	344	731	.7627	978	26
35	.49369	.56769	1.7615	.86964	**25**
36	394	808	.7603	949	24
37	419	846	.7591	935	23
38	445	885	.7579	921	22
39	470	923	.7567	906	21
40	.49495	.56962	1.7556	.86892	**20**
41	521	.57000	.7544	878	19
42	546	039	.7532	863	18
43	571	078	.7520	849	17
44	596	116	.7508	834	16
45	.49622	.57155	1.7496	.86820	**15**
46	647	193	.7485	805	14
47	672	232	.7473	791	13
48	697	271	.7461	777	12
49	723	309	.7449	762	11
50	.49748	.57348	1.7437	.86748	**10**
51	773	386	.7426	733	9
52	798	425	.7414	719	8
53	824	464	.7402	704	7
54	849	503	.7391	690	6
55	.49874	.57541	1.7379	.86675	**5**
56	899	580	.7367	661	4
57	924	619	.7355	646	3
58	950	657	.7344	632	2
59	.49975	696	.7332	617	1
60	.50000	.57735	1.7321	.86603	**0**
	N Cos	N Cot	N Tan	N Sin	′

60°

30°

′	N Sin	N Tan	N Cot	N Cos	
0	.50000	.57735	1.7321	.86603	**60**
1	025	774	.7309	588	59
2	050	813	.7297	573	58
3	076	851	.7286	559	57
4	101	890	.7274	544	56
5	.50126	.57929	1.7262	.86530	**55**
6	151	.57968	.7251	515	54
7	176	.58007	.7239	501	53
8	201	046	.7228	486	52
9	227	085	.7216	471	51
10	.50252	.58124	1.7205	.86457	**50**
11	277	162	.7193	442	49
12	302	201	.7182	427	48
13	327	240	.7170	413	47
14	352	279	.7159	398	46
15	.50377	.58318	1.7147	.86384	**45**
16	403	357	.7136	369	44
17	428	396	.7124	354	43
18	453	435	.7113	340	42
19	478	474	.7102	325	41
20	.50503	.58513	1.7090	.86310	**40**
21	528	552	.7079	295	39
22	553	591	.7067	281	38
23	578	631	.7056	266	37
24	603	670	.7045	251	36
25	.50628	.58709	1.7033	.86237	**35**
26	654	748	.7022	222	34
27	679	787	.7011	207	33
28	704	826	.6999	192	32
29	729	865	.6988	178	31
30	.50754	.58905	1.6977	.86163	**30**
31	779	944	.6965	148	29
32	804	.58983	.6954	133	28
33	829	.59022	.6943	119	27
34	854	061	.6932	104	26
35	.50879	.59101	1.6920	.86089	**25**
36	904	140	.6909	074	24
37	929	179	.6898	059	23
38	954	218	.6887	045	22
39	50979	258	.6875	030	21
40	.51004	.59297	1.6864	.86015	**20**
41	029	336	.6853	.86000	19
42	054	376	.6842	.85985	18
43	079	415	.6831	970	17
44	104	454	.6820	956	16
45	.51129	.59494	1.6808	.85941	**15**
46	154	533	.6797	926	14
47	179	573	.6786	911	13
48	204	612	.6775	896	12
49	229	651	.6764	881	11
50	.51254	.59691	1.6753	.85866	**10**
51	279	730	.6742	851	9
52	304	770	.6731	836	8
53	329	809	.6720	821	7
54	354	849	.6709	806	6
55	.51379	.59888	1.6698	.85792	**5**
56	404	928	.6687	777	4
57	429	.59967	.6676	762	3
58	454	.60007	.6665	747	2
59	479	046	.6654	732	1
60	.51504	.60086	1.6643	.85717	**0**
	N Cos	N Cot	N Tan	N Sin	′

59°

31°

′	N Sin	N Tan	N Cot	N Cos	
0	.51504	.60086	1.6643	.85717	**60**
1	529	126	.6632	702	59
2	554	165	.6621	687	58
3	579	205	.6610	672	57
4	604	245	.6599	657	56
5	.51628	.60284	1.6588	.85642	**55**
6	653	324	.6577	627	54
7	678	364	.6566	612	53
8	703	403	.6555	597	52
9	728	443	.6545	582	51
10	.51753	.60483	1.6534	.85567	**50**
11	778	522	.6523	551	49
12	803	562	.6512	536	48
13	828	602	.6501	521	47
14	852	642	.6490	506	46
15	.51877	.60681	1.6479	.85491	**45**
16	902	721	.6469	476	44
17	927	761	.6458	461	43
18	952	801	.6447	446	42
19	.51977	841	.6436	431	41
20	.52002	.60881	1.6426	.85416	**40**
21	026	921	.6415	401	39
22	051	.60960	.6404	385	38
23	076	.61000	.6393	370	37
24	101	040	.6383	355	36
25	.52126	.61080	1.6372	.85340	**35**
26	151	120	.6361	325	34
27	175	160	.6351	310	33
28	200	200	.6340	294	32
29	225	240	.6329	279	31
30	.52250	.61280	1.6319	.85264	**30**
31	275	320	.6308	249	29
32	299	360	.6297	234	28
33	324	400	.6287	218	27
34	349	440	.6276	203	26
35	.52374	.61480	1.6265	.85188	**25**
36	399	520	.6255	173	24
37	423	561	.6244	157	23
38	448	601	.6234	142	22
39	473	641	.6223	127	21
40	.52498	.61681	1.6212	.85112	**20**
41	522	721	.6202	096	19
42	547	761	.6191	081	18
43	572	801	.6181	066	17
44	597	842	.6170	051	16
45	.52621	.61882	1.6160	.85035	**15**
46	646	922	.6149	020	14
47	671	.61962	.6139	.85005	13
48	696	.62003	.6128	.84989	12
49	720	043	.6118	974	11
50	.52745	.62083	1.6107	.84959	**10**
51	770	124	.6097	943	9
52	794	164	.6087	928	8
53	819	204	.6076	913	7
54	844	245	.6066	897	6
55	.52869	.62285	1.6055	.84882	**5**
56	893	325	.6045	866	4
57	918	366	.6034	851	3
58	943	406	.6024	836	2
59	967	446	.6014	820	1
60	.52992	.62487	1.6003	.84805	**0**
	N Cos	N Cot	N Tan	N Sin	′

58°

32°

′	N Sin	N Tan	N Cot	N Cos	
0	.52992	.62487	1.6003	.84805	60
1	.53017	527	.5993	789	59
2	041	568	.5983	774	58
3	066	608	.5972	759	57
4	091	649	.5962	743	56
5	.53115	.62689	1.5952	.84728	55
6	140	730	.5941	712	54
7	164	770	.5931	697	53
8	189	811	.5921	681	52
9	214	852	.5911	666	51
10	.53238	.62892	1.5900	.84650	50
11	263	933	.5890	635	49
12	288	.62973	.5880	619	48
13	312	.63014	.5869	604	47
14	337	055	.5859	588	46
15	.53361	.63095	1.5849	.84573	45
16	386	136	.5839	557	44
17	411	177	.5829	542	43
18	435	217	.5818	526	42
19	460	258	.5808	511	41
20	.53484	.63299	1.5798	.84495	40
21	509	340	.5788	480	39
22	534	380	.5778	464	38
23	558	421	.5768	448	37
24	583	462	.5757	433	36
25	.53607	.63503	1.5747	.84417	35
26	632	544	.5737	402	34
27	656	584	.5727	386	33
28	681	625	.5717	370	32
29	705	666	.5707	355	31
30	.53730	.63707	1.5697	.84339	30
31	754	748	.5687	324	29
32	779	789	.5677	308	28
33	804	830	.5667	292	27
34	828	871	.5657	277	26
35	.53853	.63912	1.5647	.84261	25
36	877	953	.5637	245	24
37	902	.63994	.5627	230	23
38	926	.64035	.5617	214	22
39	951	076	.5607	198	21
40	.53975	.64117	1.5597	.84182	20
41	.54000	158	.5587	167	19
42	024	199	.5577	151	18
43	049	240	.5567	135	17
44	073	281	.5557	120	16
45	.54007	.64322	1.5547	.84104	15
46	122	363	.5537	088	14
47	146	404	.5527	072	13
48	171	446	.5517	057	12
49	195	487	.5507	041	11
50	.54220	.64528	1.5497	.84025	10
51	244	569	.5487	.84009	9
52	269	610	.5477	.83994	8
53	293	652	.5468	978	7
54	317	693	.5458	962	6
55	.54342	.64734	1.5448	.83946	5
56	366	775	.5438	930	4
57	391	817	.5428	915	3
58	415	858	.5418	899	2
59	440	899	.5408	883	1
60	.54464	.64941	1.5399	.83867	0
	N Cos	N Cot	N Tan	N Sin	′

57°

33°

′	N Sin	N Tan	N Cot	N Cos	
0	.54464	.64941	1.5399	.83867	60
1	488	.64982	.5389	851	59
2	513	.65024	.5379	835	58
3	537	065	.5369	819	57
4	561	106	.5359	804	56
5	.54586	.65148	1.5350	.83788	55
6	610	189	.5340	772	54
7	635	231	.5330	756	53
8	659	272	.5320	740	52
9	683	314	.5311	724	51
10	.54708	.65355	1.5301	.83708	50
11	732	397	.5291	692	49
12	756	438	.5282	676	48
13	781	480	.5272	660	47
14	805	521	.5262	645	46
15	.54829	.65563	1.5253	.83629	45
16	854	604	.5243	613	44
17	878	646	.5233	597	43
18	902	688	.5224	581	42
19	927	729	.5214	565	41
20	.54951	.65771	1.5204	.83549	40
21	975	813	.5195	533	39
22	.54999	854	.5185	517	38
23	.55024	896	.5175	501	37
24	048	938	.5166	485	36
25	.55072	.65980	1.5156	.83469	35
26	097	.66021	.5147	453	34
27	121	063	.5137	437	33
28	145	105	.5127	421	32
29	169	147	.5118	405	31
30	.55194	.66189	1.5108	.83389	30
31	218	230	.5099	373	29
32	242	272	.5089	356	28
33	266	314	.5080	340	27
34	291	356	.5070	324	26
35	.55315	.66398	1.5061	.83308	25
36	339	440	.5051	292	24
37	363	482	.5042	276	23
38	388	524	.5032	260	22
39	412	566	.5023	244	21
40	.55436	.66608	1.5013	.83228	20
41	460	650	.5004	212	19
42	484	692	.4994	195	18
43	509	734	.4985	179	17
44	533	776	.4975	163	16
45	.55557	.66818	1.4966	.83147	15
46	581	860	.4957	131	14
47	605	902	.4947	115	13
48	630	944	.4938	098	12
49	654	.66986	.4928	082	11
50	.55678	.67028	1.4919	.83066	10
51	702	071	.4910	050	9
52	726	113	.4900	034	8
53	750	155	.4891	017	7
54	775	197	.4882	.83001	6
55	.55799	.67239	1.4872	.82985	5
56	823	282	.4863	969	4
57	847	324	.4854	953	3
58	871	366	.4844	936	2
59	895	409	.4835	920	1
60	.55919	.67451	1.4826	.82904	0
	N Cos	N Cot	N Tan	N Sin	′

56°

34°

′	N Sin	N Tan	N Cot	N Cos	
0	.55919	.67451	1.4826	.82904	60
1	943	493	.4816	887	59
2	968	536	.4807	871	58
3	.55992	578	.4798	855	57
4	.56016	620	.4788	839	56
5	.56040	.67663	1.4779	.82822	55
6	064	705	.4770	806	54
7	088	748	.4761	790	53
8	112	790	.4751	773	52
9	136	832	.4742	757	51
10	.56160	.67875	1.4733	.82741	50
11	184	917	.4724	724	49
12	208	.67960	.4715	708	48
13	232	.68002	.4705	692	47
14	256	045	.4696	675	46
15	.56280	.68088	1.4687	.82659	45
16	305	130	.4678	643	44
17	329	173	.4669	626	43
18	353	215	.4659	610	42
19	377	258	.4650	593	41
20	.56401	.68301	1.4641	.82577	40
21	425	343	.4632	561	39
22	449	386	.4623	544	38
23	473	429	.4614	528	37
24	497	471	.4605	511	36
25	.56521	.68514	1.4596	.82495	35
26	545	557	.4586	478	34
27	569	600	.4577	462	33
28	593	642	.4568	446	32
29	617	685	.4559	429	31
30	.56641	.68728	1.4550	.82413	30
31	665	771	.4541	396	29
32	689	814	.4532	380	28
33	713	857	.4523	363	27
34	736	900	.4514	347	26
35	.56760	.68942	1.4505	.82330	25
36	784	.68985	.4496	314	24
37	808	.69028	.4487	297	23
38	832	071	.4478	281	22
39	856	114	.4469	264	21
40	.56880	.69157	1.4460	.82248	20
41	904	200	.4451	231	19
42	928	243	.4442	214	18
43	952	286	.4433	198	17
44	.56976	329	.4424	181	16
45	.57000	.69372	1.4415	.82165	15
46	024	416	.4406	148	14
47	047	459	.4397	132	13
48	071	502	.4388	115	12
49	095	545	.4379	098	11
50	.57119	.69588	1.4370	.82082	10
51	143	631	.4361	065	9
52	167	675	.4352	048	8
53	191	718	.4344	032	7
54	215	761	.4335	.82015	6
55	.57238	.69804	1.4326	.81999	5
56	262	847	.4317	982	4
57	286	891	.4308	965	3
58	310	934	.4299	949	2
59	334	.69977	.4290	932	1
60	.57358	.70021	1.4281	.81915	0
	N Cos	N Cot	N Tan	N Sin	′

55°

35°

′	N Sin	N Tan	N Cot	N Cos	
0	.57358	.70021	1.4281	.81915	60
1	381	064	.4273	899	59
2	405	107	.4264	882	58
3	429	151	.4255	865	57
4	453	194	.4246	848	56
5	.57477	.70238	1.4237	.81832	55
6	501	281	.4229	815	54
7	524	325	.4220	798	53
8	548	368	.4211	782	52
9	572	412	.4202	765	51
10	.57596	.70455	1.4193	.81748	50
11	619	499	.4185	731	49
12	643	542	.4176	714	48
13	667	586	.4167	698	47
14	691	629	.4158	681	46
15	.57715	.70673	1.4150	.81664	45
16	738	717	.4141	647	44
17	762	760	.4132	631	43
18	786	804	.4124	614	42
19	810	848	.4115	597	41
20	.57833	.70891	1.4106	.81580	40
21	857	935	.4097	563	39
22	881	.70979	.4089	546	38
23	904	.71023	.4080	530	37
24	928	066	.4071	513	36
25	.57952	.71110	1.4063	.81496	35
26	976	154	.4054	479	34
27	.57999	198	.4045	462	33
28	.58023	242	.4037	445	32
29	047	285	.4028	428	31
30	.58070	.71329	1.4019	.81412	30
31	094	373	.4011	395	29
32	118	417	.4002	378	28
33	141	461	.3994	361	27
34	165	505	.3985	344	26
35	.58189	.71549	1.3976	.81327	25
36	212	593	.3968	310	24
37	236	637	.3959	293	23
38	260	681	.3951	276	22
39	283	725	.3942	259	21
40	.58307	.71769	1.3934	.81242	20
41	330	813	.3925	225	19
42	354	857	.3916	208	18
43	378	901	.3908	191	17
44	401	946	.3899	174	16
45	.58425	.71990	1.3891	.81157	15
46	449	.72034	.3882	140	14
47	472	078	.3874	123	13
48	496	122	.3865	106	12
49	519	167	.3857	089	11
50	.58543	.72211	1.3848	.81072	10
51	567	255	.3840	055	9
52	590	299	.3831	038	8
53	614	344	.3823	021	7
54	637	388	.3814	.81004	6
55	.58661	.72432	1.3806	.80987	5
56	684	477	.3798	970	4
57	708	521	.3789	953	3
58	731	565	.3781	936	2
59	755	610	.3772	919	1
60	.58779	.72654	1.3764	.80902	0
	N Cos	N Cot	N Tan	N Sin	′

54°

36°

′	N Sin	N Tan	N Cot	N Cos	
0	.58779	.72654	1.3764	.80902	**60**
1	802	699	.3755	885	59
2	826	743	.3747	867	58
3	849	788	.3739	850	57
4	873	832	.3730	833	56
5	.58896	.72877	1.3722	.80816	**55**
6	920	921	.3713	799	54
7	943	.72966	.3705	782	53
8	967	.73010	.3697	765	52
9	.58990	055	.3688	748	51
10	.59014	.73100	1.3680	.80730	**50**
11	037	144	.3672	713	49
12	061	189	.3663	696	48
13	084	234	.3655	679	47
14	108	278	.3647	662	46
15	.59131	.73323	1.3638	.80644	**45**
16	154	368	.3630	627	44
17	178	413	.3622	610	43
18	201	457	.3613	593	42
19	225	502	.3605	576	41
20	.59248	.73547	1.3597	.80558	**40**
21	272	592	.3588	541	39
22	295	637	.3580	524	38
23	318	681	.3572	507	37
24	342	726	.3564	489	36
25	.59365	.73771	1.3555	.80472	**35**
26	389	816	.3547	455	34
27	412	861	.3539	438	33
28	436	906	.3531	420	32
29	459	951	.3522	403	31
30	.59482	.73996	1.3514	.80386	**30**
31	506	.74041	.3506	368	29
32	529	086	.3498	351	28
33	552	131	.3490	334	27
34	576	176	.3481	316	26
35	.59599	.74221	1.3473	.80299	**25**
36	622	267	.3465	282	24
37	646	312	.3457	264	23
38	669	357	.3449	247	22
39	693	402	.3440	230	21
40	.59716	74447	1.3432	.80212	**20**
41	739	492	.3424	195	19
42	763	538	.3416	178	18
43	786	583	.3408	160	17
44	809	628	.3400	143	16
45	.59832	.74674	1.3392	.80125	**15**
46	856	719	.3384	108	14
47	879	764	.3375	091	13
48	902	810	.3367	073	12
49	926	855	.3359	056	11
50	.59949	.74900	1.3351	.80038	**10**
51	972	946	.3343	021	9
52	.59995	.74991	.3335	.80003	8
53	.60019	.75037	.3327	.79986	7
54	042	082	.3319	968	6
55	.60065	.75128	1.3311	.79951	**5**
56	089	173	.3303	934	4
57	112	219	.3295	916	3
58	135	264	.3287	899	2
59	158	310	.3278	881	1
60	.60182	.75355	1.3270	.79864	**0**
	N Cos	N Cot	N Tan	N Sin	′

53°

37°

′	N Sin	N Tan	N Cot	N Cos	
0	.60182	.75355	1.3270	.79864	**60**
1	205	401	.3262	846	59
2	228	447	.3254	829	58
3	251	492	.3246	811	57
4	274	538	.3238	793	56
5	.60298	.75584	1.3230	.79776	**55**
6	321	629	.3222	758	54
7	344	675	.3214	741	53
8	367	721	.3206	723	52
9	390	767	.3198	706	51
10	.60414	.75812	1.3190	.79688	**50**
11	437	858	.3182	671	49
12	460	904	.3175	653	48
13	483	950	.3167	635	47
14	506	.75996	.3159	618	46
15	.60529	.76042	1.3151	.79600	**45**
16	553	088	.3143	583	44
17	576	134	.3135	565	43
18	599	180	.3127	547	42
19	622	226	.3119	530	41
20	.60645	.76272	1.3111	.79512	**40**
21	668	318	.3103	494	39
22	691	364	.3095	477	38
23	714	410	.3087	459	37
24	738	456	.3079	441	36
25	.60761	.76502	1.3072	.79424	**35**
26	784	548	.3064	406	34
27	807	594	.3056	388	33
28	830	640	.3048	371	32
29	853	686	.3040	353	31
30	.60876	.76733	1.3032	.79335	**30**
31	899	779	.3024	318	29
32	922	825	.3017	300	28
33	945	871	.3009	282	27
34	968	918	.3001	264	26
35	.60991	.76964	1.2993	.79247	**25**
36	.61015	.77010	.2985	229	24
37	038	057	.2977	211	23
38	061	103	.2970	193	22
39	084	149	.2962	176	21
40	.61107	.77196	1.2954	.79158	**20**
41	130	242	.2946	140	19
42	153	289	.2938	122	18
43	176	335	.2931	105	17
44	199	382	.2923	087	16
45	.61222	.77428	1.2915	.79069	**15**
46	245	475	.2907	051	14
47	268	521	.2900	033	13
48	291	568	.2892	.79016	12
49	314	615	.2884	.78998	11
50	.61337	.77661	1.2876	.78980	**10**
51	360	708	.2869	962	9
52	383	754	.2861	944	8
53	406	801	.2853	926	7
54	429	848	.2846	908	6
55	.61451	.77895	1.2838	.78891	**5**
56	474	941	.2830	873	4
57	497	.77988	.2822	855	3
58	520	.78035	.2815	837	2
59	543	082	.2807	819	1
60	.61566	.78129	1.2799	.78801	**0**
	N Cos	N Cot	N Tan	N Sin	′

52°

38°

′	N Sin	N Tan	N Cot	N Cos	
0	.61566	.78129	1.2799	.78801	60
1	589	175	.2792	783	59
2	612	222	.2784	765	58
3	635	269	.2776	747	57
4	658	316	.2769	729	56
5	.61681	.78363	1.2761	.78711	55
6	704	410	.2753	694	54
7	726	457	.2746	676	53
8	749	504	.2738	658	52
9	772	551	.2731	640	51
10	.61795	.78598	1.2723	.78622	50
11	818	645	.2715	604	49
12	841	692	.2708	586	48
13	864	739	.2700	568	47
14	887	786	.2693	550	46
15	.61909	.78834	1.2685	.78532	45
16	932	881	.2677	514	44
17	955	928	.2670	496	43
18	.61978	.78975	.2662	478	42
19	.62001	.79022	.2655	460	41
20	.62024	.79070	1.2647	.78442	40
21	046	117	.2640	424	39
22	069	164	.2632	405	38
23	092	212	.2624	387	37
24	115	259	.2617	369	36
25	.62138	.79306	1.2609	.78351	35
26	160	354	.2602	333	34
27	183	401	.2594	315	33
28	206	449	.2587	297	32
29	229	496	.2579	279	31
30	.62251	.79544	1.2572	.78261	30
31	274	591	.2564	243	29
32	297	639	.2557	225	28
33	320	686	.2549	206	27
34	342	734	.2542	188	26
35	.62365	.79781	1.2534	.78170	25
36	388	829	.2527	152	24
37	411	877	.2519	134	23
38	433	924	.2512	116	22
39	456	.79972	.2504	098	21
40	.62479	.80020	1.2497	.78079	20
41	502	067	.2489	061	19
42	524	115	.2482	043	18
43	547	163	.2475	025	17
44	570	211	.2467	.78007	16
45	.62592	.80258	1.2460	.77988	15
46	615	306	.2452	970	14
47	638	354	.2445	952	13
48	660	402	.2437	934	12
49	683	450	.2430	916	11
50	.62706	.80498	1.2423	.77897	10
51	728	546	.2415	879	9
52	751	594	.2408	861	8
53	774	642	.2401	843	7
54	796	690	.2393	824	6
55	.62819	.80738	1.2386	.77806	5
56	842	786	.2378	788	4
57	864	834	.2371	769	3
58	887	882	.2364	751	2
59	909	930	.2356	733	1
60	.62932	.80978	1.2349	.77715	0
	N Cos	N Cot	N Tan	N Sin	′

51°

39°

′	N Sin	N Tan	N Cot	N Cos	
0	.62932	.80978	1.2349	.77715	60
1	955	.81027	.2342	696	59
2	.62977	075	.2334	678	58
3	.63000	123	.2327	660	57
4	022	171	.2320	641	56
5	.63045	.81220	1.2312	.77623	55
6	068	268	.2305	605	54
7	090	316	.2298	586	53
8	113	364	.2290	568	52
9	135	413	.2283	550	51
10	.63158	.81461	1.2276	.77531	50
11	180	510	.2268	513	49
12	203	558	.2261	494	48
13	225	606	.2254	476	47
14	248	655	.2247	458	46
15	.63271	.81703	1.2239	.77439	45
16	293	752	.2232	421	44
17	316	800	.2225	402	43
18	338	849	.2218	384	42
19	361	898	.2210	366	41
20	.63383	.81946	1.2203	.77347	40
21	406	.81995	.2196	329	39
22	428	.82044	.2189	310	38
23	451	092	.2181	292	37
24	473	141	.2174	273	36
25	.63496	.82190	1.2167	.77255	35
26	518	238	.2160	236	34
27	540	287	.2153	218	33
28	563	336	.2145	199	32
29	585	385	.2138	181	31
30	.63608	.82434	1.2131	.77162	30
31	630	483	.2124	144	29
32	653	531	.2117	125	28
33	675	580	.2109	107	27
34	698	629	.2102	088	26
35	.63720	.82678	1.2095	.77070	25
36	742	727	.2088	051	24
37	765	776	.2081	033	23
38	787	825	.2074	.77014	22
39	810	874	.2066	.76996	21
40	.63832	.82923	1.2059	.76977	20
41	854	.82972	.2052	959	19
42	877	.83022	.2045	940	18
43	899	071	.2038	921	17
44	922	120	.2031	903	16
45	.63944	.83169	1.2024	.76884	15
46	966	218	.2017	866	14
47	.63989	268	.2009	847	13
48	.64011	317	.2002	828	12
49	033	366	.1995	810	11
50	.64056	.83415	1.1988	.76791	10
51	078	465	.1981	772	9
52	100	514	.1974	754	8
53	123	564	.1967	735	7
54	145	613	.1960	717	6
55	.64167	.83662	1.1953	.76698	5
56	190	712	.1946	679	4
57	212	761	.1939	661	3
58	234	811	.1932	642	2
59	256	860	.1925	623	1
60	.64279	.83910	1.1918	.76604	0
	N Cos	N Cot	N Tan	N Sin	′

50°

40°

′	N Sin	N Tan	N Cot	N Cos	
0	.64279	.83910	1.1918	.76604	60
1	301	.83960	.1910	586	59
2	323	.84009	.1903	567	58
3	346	059	.1896	548	57
4	368	108	.1889	530	56
5	.64390	.84158	1.1882	.76511	55
6	412	208	.1875	492	54
7	435	258	.1868	473	53
8	457	307	.1861	455	52
9	479	357	.1854	436	51
10	.64501	.84407	1.1847	.76417	50
11	524	457	.1840	398	49
12	546	507	.1833	380	48
13	568	556	.1826	361	47
14	590	606	.1819	342	46
15	.64612	.84656	1.1812	.76323	45
16	635	705	.1806	304	44
17	657	756	.1799	286	43
18	679	806	.1792	267	42
19	701	856	.1785	248	41
20	.64723	.84906	1.1778	.76229	40
21	746	.84956	.1771	210	39
22	768	.85006	.1764	192	38
23	790	057	.1757	173	37
24	812	107	.1750	154	36
25	.64834	.85157	1.1743	.76135	35
26	856	207	.1736	116	34
27	878	257	.1729	097	33
28	901	308	.1722	078	32
29	923	358	.1715	059	31
30	.64945	.85408	1.1708	.76041	30
31	967	458	.1702	022	29
32	.64989	509	.1695	.76003	28
33	.65011	559	.1688	.75984	27
34	033	609	.1681	965	26
35	.65055	.85660	1.1674	.75946	25
36	077	710	.1667	927	24
37	100	761	.1660	908	23
38	122	811	.1653	889	22
39	144	862	.1647	870	21
40	.65166	.85912	1.1640	.75851	20
41	188	.85963	.1633	832	19
42	210	.86014	.1626	813	18
43	232	064	.1619	794	17
44	254	115	.1612	775	16
45	.65276	.86166	1.1606	.75756	15
46	298	216	.1599	738	14
47	320	267	.1592	719	13
48	342	318	.1585	700	12
49	364	368	.1578	680	11
50	.65386	.86419	1.1571	.75661	10
51	408	470	.1565	642	9
52	430	521	.1558	623	8
53	452	572	.1551	604	7
54	474	623	.1544	585	6
55	.65496	.86674	1.1538	.75566	5
56	518	725	.1531	547	4
57	540	776	.1524	528	3
58	562	827	.1517	509	2
59	584	878	.1510	490	1
60	.65606	.86929	1.1504	.75471	0
	N Cos	N Cot	N Tan	N Sin	′

49°

41°

′	N Sin	N Tan	N Cot	N Cos	
0	.65606	.86929	1.1504	.75471	60
1	628	.86980	.1497	452	59
2	650	.87031	.1490	433	58
3	672	082	.1483	414	57
4	694	133	.1477	395	56
5	.65716	.87184	1.1470	.75375	55
6	738	236	.1463	356	54
7	759	287	.1456	337	53
8	781	338	.1450	318	52
9	803	389	.1443	299	51
10	.65825	.87441	1.1436	.75280	50
11	847	492	.1430	261	49
12	869	543	.1423	241	48
13	891	595	.1416	222	47
14	913	646	.1410	203	46
15	.65935	.87698	1.1403	.75184	45
16	956	749	.1396	165	44
17	.65978	801	.1389	146	43
18	.66000	852	.1383	126	42
19	022	904	.1376	107	41
20	.66044	.87955	1.1369	.75088	40
21	066	.88007	.1363	069	39
22	088	059	.1356	050	38
23	109	110	.1349	030	37
24	131	162	.1343	.75011	36
25	.66153	.88214	1.1336	.74992	35
26	175	265	.1329	973	34
27	197	317	.1323	953	33
28	218	369	.1316	934	32
29	240	421	.1310	915	31
30	.66262	.88473	1.1303	.74896	30
31	284	524	.1296	876	29
32	306	576	.1290	857	28
33	327	628	.1283	838	27
34	349	680	.1276	818	26
35	.66371	.88732	1.1270	.74799	25
36	393	784	.1263	780	24
37	414	836	.1257	760	23
38	436	888	.1250	741	22
39	458	940	.1243	722	21
40	.66480	.88992	1.1237	.74703	20
41	501	.89045	.1230	683	19
42	523	097	.1224	664	18
43	545	149	.1217	644	17
44	566	201	.1211	625	16
45	.66588	.89253	1.1204	.74606	15
46	610	306	.1197	586	14
47	632	358	.1191	567	13
48	653	410	.1184	548	12
49	675	463	.1178	528	11
50	.66697	.89515	1.1171	.74509	10
51	718	567	.1165	489	9
52	740	620	.1158	470	8
53	762	672	.1152	451	7
54	783	725	.1145	431	6
55	.66805	.89777	1.1139	.74412	5
56	827	830	.1132	392	4
57	848	883	.1126	373	3
58	870	935	.1119	353	2
59	891	.89988	.1113	334	1
60	.66913	.90040	1.1106	.74314	0
	N Cos	N Cot	N Tan	N Sin	′

48°

42°

′	N Sin	N Tan	N Cot	N Cos	
0	.66913	.90040	1 1106	74314	60
1	935	093	.1100	295	59
2	956	146	1093	276	58
3	978	199	.1087	256	57
4	.66999	251	1080	237	56
5	.67021	.90304	1 1074	.74217	55
6	043	357	.1067	198	54
7	064	410	.1061	178	53
8	086	463	.1054	159	52
9	107	516	.1048	139	51
10	67129	.90569	1.1041	74120	50
11	151	621	1035	100	49
12	172	674	.1028	080	48
13	194	727	1022	061	47
14	215	781	.1016	041	46
15	.67237	.90834	1.1009	.74022	45
16	258	887	.1003	.74002	44
17	280	940	.0996	.73983	43
18	301	.90993	.0990	963	42
19	323	91046	0983	944	41
20	.67344	91099	1.0977	.73924	40
21	366	153	.0971	904	39
22	387	206	.0964	885	38
23	409	259	0958	865	37
24	430	313	.0951	846	36
25	.67452	.91366	1.0945	.73826	35
26	473	419	0939	806	34
27	495	473	.0932	787	33
28	516	526	.0926	767	32
29	538	580	.0919	747	31
30	.67559	.91633	1.0913	.73728	30
31	580	687	.0907	708	29
32	602	740	.0900	688	28
33	623	794	.0894	669	27
34	645	847	.0888	649	26
35	.67666	.91901	1.0881	.73629	25
36	688	.91955	.0875	610	24
37	709	92008	.0869	590	23
38	730	062	.0862	570	22
39	752	116	.0856	551	21
40	.67773	.92170	1.0850	73531	20
41	795	224	.0843	511	19
42	816	277	.0837	491	18
43	837	331	.0831	472	17
44	859	385	.0824	452	16
45	.67880	92439	1.0818	.73432	15
46	901	493	.0812	413	14
47	923	547	.0805	393	13
48	944	601	.0799	373	12
49	965	655	.0793	353	11
50	.67987	92709	1.0786	73333	10
51	68008	763	.0780	314	9
52	029	817	.0774	294	8
53	051	872	.0768	274	7
54	072	926	0761	254	6
55	68093	92980	1.0755	.73234	5
56	115	.93034	0749	215	4
57	136	088	.0742	195	3
58	157	143	.0736	175	2
59	179	197	.0730	155	1
60	.68200	.93252	1.0724	.73135	0
	N Cos	N Cot	N Tan	N Sin	′

47°

43°

′	N Sin	N Tan	N Cot	N Cos	
0	68200	93252	1.0724	73135	60
1	221	306	0717	116	59
2	242	360	.0711	096	58
3	264	415	.0705	076	57
4	285	469	.0699	056	56
5	.68306	93524	1 0692	73036	55
6	327	578	0686	.73016	54
7	349	633	0680	72996	53
8	370	688	.0674	976	52
9	391	742	.0668	957	51
10	68412	93797	1.0661	.72937	50
11	434	852	.0655	917	49
12	455	906	.0649	897	48
13	476	.93961	.0643	877	47
14	497	.94016	0637	857	46
15	68518	.94071	1 0630	.72837	45
16	539	125	.0624	817	44
17	561	180	.0618	797	43
18	582	235	.0612	777	42
19	603	290	.0606	757	41
20	68624	.94345	1.0599	.72737	40
21	645	400	.0593	717	39
22	666	455	.0587	697	38
23	688	510	.0581	677	37
24	709	565	.0575	657	36
25	68730	94620	1.0569	.72637	35
26	751	676	.0562	617	34
27	772	731	.0556	597	33
28	793	786	.0550	577	32
29	814	841	.0544	557	31
30	68835	.94896	1.0538	.72537	30
31	857	.94952	.0532	517	29
32	878	.95007	.0526	497	28
33	899	062	.0519	477	27
34	920	118	.0513	457	26
35	68941	.95173	1 0507	.72437	25
36	962	229	.0501	417	24
37	68983	284	.0495	397	23
38	.69004	340	.0489	377	22
39	025	395	.0483	357	21
40	69046	.95451	1.0477	.72337	20
41	067	506	.0470	317	19
42	088	562	.0464	297	18
43	109	618	.0458	277	17
44	130	673	.0452	257	16
45	.69151	95729	1.0446	.72236	15
46	172	785	.0440	216	14
47	193	841	.0434	196	13
48	214	897	.0428	176	12
49	235	.95952	.0422	156	11
50	.69256	.96008	1.0416	72136	10
51	277	064	.0410	116	9
52	298	120	.0404	095	8
53	319	176	.0398	075	7
54	340	232	.0392	055	6
55	.69361	.96288	1.0385	72035	5
56	382	344	.0379	.72015	4
57	403	400	.0373	.71995	3
58	424	457	.0367	974	2
59	445	513	.0361	954	1
60	.69466	.96569	1 0355	7 1934	0
	N Cos	N Cot	N Tan	N Sin	′

46°

44°

′	N Sin	N Tan	N Cot	N Cos	
0	.69466	.96569	1.0355	.71934	**60**
1	487	625	.0349	914	59
2	508	681	.0343	894	58
3	529	738	.0337	873	57
4	549	794	.0331	853	56
5	.69570	.96850	1.0325	.71833	**55**
6	591	907	.0319	813	54
7	612	.96963	.0313	792	53
8	633	.97020	.0307	772	52
9	654	076	.0301	752	51
10	.69675	.97133	1.0295	.71732	**50**
11	696	189	.0289	711	49
12	717	246	.0283	691	48
13	737	302	.0277	671	47
14	758	359	.0271	650	46
15	.69779	.97416	1.0265	.71630	**45**
16	800	472	.0259	610	44
17	821	529	.0253	590	43
18	842	586	.0247	569	42
19	862	643	.0241	549	41
20	.69883	.97700	1.0235	.71529	**40**
21	904	756	.0230	508	39
22	925	813	.0224	488	38
23	946	870	.0218	468	37
24	966	927	.0212	447	36
25	.69987	.97984	1.0206	.71427	**35**
26	.70008	.98041	.0200	407	34
27	029	098	.0194	386	33
28	049	155	.0188	366	32
29	070	213	.0182	345	31
30	.70091	.98270	1.0176	.71325	**30**
31	112	327	.0170	305	29
32	132	384	.0164	284	28
33	153	441	.0158	264	27
34	174	499	.0152	243	26
35	.70195	.98556	1.0147	.71223	**25**
36	215	613	.0141	203	24
37	236	671	.0135	182	23
38	257	728	.0129	162	22
39	277	786	.0123	141	21
40	.70298	.98843	1.0117	.71121	**20**
41	319	901	.0111	100	19
42	339	.98958	.0105	080	18
43	360	.99016	.0099	059	17
44	381	073	.0094	039	16
45	.70401	.99131	1.0088	.71019	**15**
46	422	189	.0082	.70998	14
47	443	247	.0076	978	13
48	463	304	.0070	957	12
49	484	362	.0064	937	11
50	.70505	.99420	1.0058	.70916	**10**
51	525	478	.0052	896	9
52	546	536	.0047	875	8
53	567	594	.0041	855	7
54	587	652	.0035	834	6
55	.70608	.99710	1.0029	.70813	**5**
56	628	768	.0023	793	4
57	649	826	.0017	772	3
58	670	884	.0012	752	2
59	690	.99942	.0006	731	1
60	.70711	1.0000	1.0000	.70711	**0**
	N Cos	N Cot	N Tan	N Sin	′

45°

六　分秒與度之小數互化表

分秒與度之小數互化表

′	°	″	°	°	′ ″	°	′ ″
0	0.0000	**0**	0.00000	**0.000**	0′ 0″	**0.50**	30′ 0″
1	0167	1	027	001	0′ 4″	51	30′ 36″
2	0333	2	055	002	0′ 7″	52	31′ 12″
3	0500	3	083	003	0′ 11″	53	31′ 48″
4	0667	4	111	004	0′ 14″	54	32′ 24″
5	0.0833	**5**	0.00138	**0.005**	0′ 18″	**0.55**	33′ 0″
6	1000	6	166	006	0′ 22″	56	33′ 36″
7	1167	7	194	007	0′ 25″	57	34′ 12″
8	1333	8	222	008	0′ 29″	58	34′ 48″
9	1500	9	250	009	0′ 32″	59	35′ 24″
10	0.1667	**10**	0.00277	**0.00**	0′ 0″	**0.60**	36′ 0″
11	1833	11	305	01	0′ 36″	61	36′ 36″
12	2000	12	333	02	1′ 12″	62	37′ 12″
13	2167	13	361	03	1′ 48″	63	37′ 48″
14	2333	14	388	04	2′ 24″	64	38′ 24″
15	0.2500	**15**	0.00416	**0.05**	3′ 0″	**0.65**	39′ 0″
16	2667	16	444	06	3′ 36″	66	39′ 36″
17	2833	17	472	07	4′ 12″	67	40′ 12″
18	3000	18	500	08	4′ 48″	68	40′ 48″
19	3167	19	527	09	5′ 24″	69	41′ 24″
20	0.3333	**20**	0.00555	**0.10**	6′ 0″	**0.70**	42′ 0″
21	3500	21	583	11	6′ 36″	71	42′ 36″
22	3667	22	611	12	7′ 12″	72	43′ 12″
23	3833	23	638	13	7′ 48″	73	43′ 48″
24	4000	24	666	14	8′ 24″	74	44′ 24″
25	0.4167	**25**	0.00694	**0.15**	9′ 0″	**0.75**	45′ 0″
26	4333	26	722	16	9′ 36″	76	45′ 36″
27	4500	27	750	17	10′ 12″	77	46′ 12″
28	4667	28	777	18	10′ 48″	78	46′ 48″
29	4833	29	805	19	11′ 24″	79	47′ 24″
30	0.5000	**30**	0.00833	**0.20**	12′ 0″	**0.80**	48′ 0″
31	5167	31	861	21	12′ 36″	81	48′ 36″
32	5333	32	888	22	13′ 12″	82	49′ 12″
33	5500	33	916	23	13′ 48″	83	49′ 48″
34	5667	34	944	24	14′ 24″	84	50′ 24″
35	0.5833	**35**	0.00972	**0.25**	15′ 0″	**0.85**	51′ 0″
36	6000	36	01000	26	15′ 36″	86	51′ 36″
37	6167	37	027	27	16′ 12″	87	52′ 12″
38	6333	38	055	28	16′ 48″	88	52′ 48″
39	6500	39	083	29	17′ 24″	89	53′ 24″
40	0.6667	**40**	0.01111	**0.30**	18′ 0″	**0.90**	54′ 0″
41	6833	41	138	31	18′ 36″	91	54′ 36″
42	7000	42	166	32	19′ 12″	92	55′ 12″
43	7167	43	194	33	19′ 48″	93	55′ 48″
44	7333	44	222	34	20′ 24″	94	56′ 24″
45	0.7500	**45**	0.01250	**0.35**	21′ 0″	**0.95**	57′ 0″
46	7667	46	277	36	21′ 36″	96	57′ 36″
47	7833	47	305	37	22′ 12″	97	58′ 12″
48	8000	48	333	38	22′ 48″	98	58′ 48″
49	8167	49	361	39	23′ 24″	99	59′ 24″
50	0.8333	**50**	0.01388	**0.40**	24′ 0″	**1.00**	60′ 0″
51	8500	51	416	41	24′ 36″	10	66′ 0″
52	8667	52	444	42	25′ 12″	20	72′ 0″
53	8833	53	472	43	25′ 48″	30	78′ 0″
54	9000	54	500	44	26′ 24″	40	84′ 0″
55	0.9167	**55**	0.01527	**0.45**	27′ 0″	**1.50**	90′ 0″
56	9333	56	555	46	27′ 36″	60	96′ 0″
57	9500	57	583	47	28′ 12″	70	102′ 0″
58	9667	58	611	48	28′ 48″	80	108′ 0″
59	9833	59	638	49	29′ 24″	90	114′ 0″
60	1.0000	**60**	0.01666	**0.50**	30′ 0″	**2.00**	120′ 0″
′	°	″	°	°	′ ″	°	′ ″

七

度分秒與弧度互化表

A. 度,分,秒化爲弧度

°	弧度	′	弧度	″	弧度
1	0.01 745 33	1	0.00 029 09	1	0.00 000 48
2	0.03 490 66	2	0.00 058 18	2	0.00 000 97
3	0.05 235 99	3	0.00 087 27	3	0.00 001 45
4	0.06 981 32	4	0.00 116 36	4	0.00 001 94
5	0.08 726 65	5	0.00 145 44	5	0.00 002 42
6	0.10 471 98	6	0.00 174 53	6	0.00 002 91
7	0.12 217 30	7	0.00 203 62	7	0.00 003 39
8	0.13 962 63	8	0.00 232 71	8	0.00 003 88
9	0.15 707 96	9	0.00 261 80	9	0.00 004 36
10	0.17 453 29	**10**	0.00 290 89	**10**	0.00 004 85
20	0.34 906 59	**15**	0.00 436 33	**15**	0.00 007 27
30	0.52 359 88	**20**	0.00 581 78	**20**	0.00 009 70
40	0.69 813 17	**25**	0.00 727 22	**25**	0.00 012 12
50	0.87 266 46	**30**	0.00 872 66	**30**	0.00 014 54
60	1.04 719 76	**35**	0.01 018 11	**35**	0.00 016 97
70	1.22 173 05	**40**	0.01 163 55	**40**	0.00 019 39
80	1.39 626 34	**50**	0.01 454 44	**50**	0.00 024 24
90	1.57 079 63	**60**	0.01 745 33	**60**	0.00 029 09

B. 弧度化爲度,分,秒

	弧度	1/10	1/100	1/1000	1/10000
1	57°17′44″.8	5°43′46″.5	0°34′22″.6	0° 3′26″.3	0° 0′20″.6
2	114°35′29″.6	11°27′33″.0	1° 8′45″.3	0° 6′52″.5	0° 0′41″.3
3	171°53′14″.4	17°11′19″.4	1°43′07″.9	0°10′18″.8	0° 1′01″.9
4	229°10′59″.2	22°55′05″.9	2°17′30″.6	0°13′45″.1	0° 1′22″.5
5	286°28′44″.0	28°38′52″.4	2°51′53″.2	0°17′11″.3	0° 1′43″.1
6	343°46′28″.8	34°22′38″.9	3°26′15″.9	0°20′37″.6	0° 2′03″.8
7	401° 4′13″.6	40° 6′25″.4	4° 0′38″.5	0°24′03″.9	0° 2′24″.4
8	458°21′58″.4	45°50′11″.8	4°35′01″.2	0°27′30″.1	0° 2′45″.0
9	515°39′43″.3	51°33′58″.3	5° 9′23″.8	0°30′56″.4	0° 3′05″.6

八　乘冪方根及倒數表

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
1.00	1.0000	1.00000	3.16228	1.00000	1.00000	2.15443	4.64159	1.00000
1.01	1.0201	1.00499	3.17805	1.03030	1.00332	2.16159	4.65701	.990099
1.02	1.0404	1.00995	3.19374	1.06121	1.00662	2.16870	4.67233	.980392
1.03	1.0609	1.01489	3.20936	1.09273	1.00990	2.17577	4.68755	.970874
1.04	1.0816	1.01980	3.22490	1.12486	1.01316	2.18279	4.70267	.961538
1.05	1.1025	1.02470	3.24037	1.15762	1.01640	2.18976	4.71769	.952381
1.06	1.1236	1.02956	3.25576	1.19102	1.01961	2.19669	4.73262	.943396
1.07	1.1449	1.03441	3.27109	1.22504	1.02281	2.20358	4.74746	.934579
1.08	1.1664	1.03923	3.28634	1.25971	1.02599	2.21042	4.76220	.925926
1.09	1.1881	1.04403	3.30151	1.29503	1.02914	2.21722	4.77686	.917431
1.10	1.2100	1.04881	3.31662	1.33100	1.03228	2.22398	4.79142	.909091
1.11	1.2321	1.05357	3.33167	1.36763	1.03540	2.23070	4.80590	.900901
1.12	1.2544	1.05830	3.34664	1.40493	1.03850	2.23738	4.82028	.892857
1.13	1.2769	1.06301	3.36155	1.44290	1.04158	2.24402	4.83459	.884956
1.14	1.2996	1.06771	3.37639	1.48154	1.04464	2.25062	4.84881	.877193
1.15	1.3225	1.07238	3.39116	1.52088	1.04769	2.25718	4.86294	.869565
1.16	1.3456	1.07703	3.40588	1.56090	1.05072	2.26370	4.87700	.862069
1.17	1.3689	1.08167	3.42053	1.60161	1.05373	2.27019	4.89097	.854701
1.18	1.3924	1.08628	3.43511	1.64303	1.05672	2.27664	4.90487	.847458
1.19	1.4161	1.09087	3.44964	1.68516	1.05970	2.28305	4.91868	.840336
1.20	1.4400	1.09545	3.46410	1.72800	1.06266	2.28943	4.93242	.833333
1.21	1.4641	1.10000	3.47851	1.77156	1.06560	2.29577	4.94609	.826446
1.22	1.4884	1.10454	3.49285	1.81585	1.06853	2.30208	4.95968	.819672
1.23	1.5129	1.10905	3.50714	1.86087	1.07144	2.30835	4.97319	.813008
1.24	1.5376	1.11355	3.52136	1.90662	1.07434	2.31459	4.98663	.806452
1.25	1.5625	1.11803	3.53553	1.95312	1.07722	2.32079	5.00000	.800000
1.26	1.5876	1.12250	3.54965	2.00038	1.08008	2.32697	5.01330	.793651
1.27	1.6129	1.12694	3.56371	2.04838	1.08293	2.33311	5.02653	.787402
1.28	1.6384	1.13137	3.57771	2.09715	1.08577	2.33921	5.03968	.781250
1.29	1.6641	1.13578	3.59166	2.14669	1.08859	2.34529	5.05277	.775194
1.30	1.6900	1.14018	3.60555	2.19700	1.09139	2.35133	5.06580	.769231
1.31	1.7161	1.14455	3.61939	2.24809	1.09418	2.35735	5.07875	.763359
1.32	1.7424	1.14891	3.63318	2.29997	1.09696	2.36333	5.09164	.757576
1.33	1.7689	1.15326	3.64692	2.35264	1.09972	2.36928	5.10447	.751880
1.34	1.7956	1.15758	3.66060	2.40610	1.10247	2.37521	5.11723	.746269
1.35	1.8225	1.16190	3.67423	2.46038	1.10521	2.38110	5.12993	.740741
1.36	1.8496	1.16619	3.68782	2.51546	1.10793	2.38697	5.14256	.735294
1.37	1.8769	1.17047	3.70135	2.57135	1.11064	2.39280	5.15514	.729927
1.38	1.9044	1.17473	3.71484	2.62807	1.11334	2.39861	5.16765	.724638
1.39	1.9321	1.17898	3.72827	2.68562	1.11602	2.40439	5.18010	.719424
1.40	1.9600	1.18322	3.74166	2.74400	1.11869	2.41014	5.19249	.714286
1.41	1.9881	1.18743	3.75500	2.80322	1.12135	2.41587	5.20483	.709220
1.42	2.0164	1.19164	3.76829	2.86329	1.12399	2.42156	5.21710	.704225
1.43	2.0449	1.19583	3.78153	2.92421	1.12662	2.42724	5.22932	.699301
1.44	2.0736	1.20000	3.79473	2.98598	1.12924	2.43288	5.24148	.694444
1.45	2.1025	1.20416	3.80789	3.04862	1.13185	2.43850	5.25359	.689655
1.46	2.1316	1.20830	3.82099	3.11214	1.13445	2.44409	5.26564	.684932
1.47	2.1609	1.21244	3.83406	3.17652	1.13703	2.44966	5.27763	.680272
1.48	2.1904	1.21655	3.84708	3.24179	1.13960	2.45520	5.28957	.675676
1.49	2.2201	1.22066	3.86005	3.30795	1.14216	2.46072	5.30146	.671141
1.50	2.2500	1.22474	3.87298	3.37500	1.14471	2.46621	5.31329	.666667
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
1.50	2.2500	1.22474	3.87298	3.37500	1.14471	2.46621	5.31329	.666667
1.51	2.2801	1.22882	3.88587	3.44295	1.14725	2.47168	5.32507	.662252
1.52	2.3104	1.23288	3.89872	3.51181	1.14978	2.47712	5.33680	.657895
1.53	2.3409	1.23693	3.91152	3.58158	1.15230	2.48255	5.34848	.653595
1.54	2.3716	1.24097	3.92428	3.65226	1.15480	2.48794	5.36011	.649351
1.55	2.4025	1.24499	3.93700	3.72388	1.15729	2.49332	5.37169	.645161
1.56	2.4336	1.24900	3.94968	3.79642	1.15978	2.49867	5.38321	.641026
1.57	2.4649	1.25300	3.96232	3.86989	1 16225	2.50399	5.39469	.636943
1.58	2.4964	1.25698	3.97492	3.94431	1.16471	2.50930	5.40612	.632911
1.59	2.5281	1.26095	3.98748	4.01968	1.16717	2.51458	5.41750	.628931
1.60	2.5600	1.26491	4.00000	4.09600	1.16961	2.51984	5.42884	.625000
1.61	2.5921	1.26886	4.01248	4.17328	1.17204	2.52508	5.44012	.621118
1.62	2.6244	1.27279	4.02492	4.25153	1.17446	2.53030	5.45136	.617284
1.63	2.6569	1.27671	4.03733	4.33075	1.17687	2.53549	5.46256	.613497
1.64	2.6896	1.28062	4.04969	4.41094	1 17027	2.54067	5.47370	.609756
1.65	2.7225	1.28452	4.06202	4.49212	1.18167	2.54582	5.48481	.606061
1.66	2.7556	1.28841	4.07431	4.57430	1.18405	2.55095	5.49586	.602410
1.67	2.7889	1.29228	4.08656	4.65746	1.18642	2.55607	5.50688	.598802
1.68	2.8224	1.29615	4.09878	4.74163	1.18878	2.56116	5.51785	.595238
1.69	2.8561	1.30000	4.11096	4.82681	1.19114	2.56623	5.52877	.591716
1 70	2.8900	1.30384	4.12311	4.91300	1.19348	2.57128	5.53966	.588235
1.71	2.9241	1.30767	4.13521	5.00021	1.19582	2.57631	5.55050	.584795
1.72	2.9584	1.31149	4.14729	5.08845	1.19815	2.58133	5.56130	.581395
1.73	2.9929	1.31529	4.15933	5.17772	1.20046	2.58632	5.57205	.578035
1.74	3.0276	1.31909	4.17133	5.26802	1.20277	2.59129	5.58277	.574713
1.75	3.0625	1.32288	4.18330	5.35938	1.20507	2.59625	5.59344	.571429
1.76	3.0976	1.32665	4.19524	5.45178	1.20736	2.60118	5.60408	.568182
1.77	3.1329	1.33041	4.20714	5.54523	1.20964	2.60610	5.61467	.564972
1.78	3.1684	1.33417	4.21900	5.63975	1.21192	2.61100	5.62523	.561798
1.79	3.2041	1.33791	4.23084	5.73534	1.21418	2.61588	5.63574	.558659
1.80	3.2400	1.34164	4.24264	5.83200	1.21644	2.62074	5.64622	.555556
1.81	3.2761	1.34536	4.25441	5.92974	1.21869	2.62559	5.65665	.552486
1.82	3.3124	1.34907	4.26615	6.02857	1.22093	2.63041	5.66705	.549451
1.83	3.3489	1.35277	4.27785	6.12849	1.22316	2.63522	5.67741	.546448
1.84	3.3856	1.35647	4.28952	6.22950	1.22539	2.64001	5.68773	.543478
1.85	3.4225	1.36015	4.30116	6.33162	1.22760	2.64479	5.69802	.540541
1.86	3.4596	1.36382	4.31277	6.43486	1.22981	2.64954	5.70827	.537634
1.87	3.4969	1.36748	4.32435	6.53920	1.23201	2.65428	5.71848	.534759
1.88	3.5344	1.37113	4.33590	6.64467	1.23420	2.65901	5.72865	.531915
1.89	3.5721	1.37477	4.34741	6.75127	1.23639	2.66371	5.73879	.529101
1.90	3.6100	1.37840	4.35890	6.85900	1.23856	2.66840	5.74890	.526316
1.91	3.6481	1.38203	4.37035	6.96787	1.24073	2.67307	5.75897	.523560
1.92	3.6864	1.38564	4.38178	7.07789	1.24289	2.67773	5.76900	.520833
1.93	3.7249	1.38924	4.39318	7.18906	1.24505	2.68237	5.77900	.518135
1.94	3.7636	1.39284	4.40454	7.30138	1.24719	2.68700	5.78896	.515464
1.95	3.8025	1.39642	4.41588	7.41488	1.24933	2.69161	5.79889	.512821
1.96	3.8416	1.40000	4.42719	7.52954	1.25146	2.69620	5.80879	.510204
1.97	3.8809	1.40357	4.43847	7.64537	1.25359	2.70078	5.81865	.507614
1.98	3.9204	1.40712	4.44972	7.76239	1.25571	2.70534	5.82848	.505051
1.99	3.9601	1.41067	4.46094	7.88060	1.25782	2.70989	5.83827	.502513
2.00	4.0000	1.41421	4.47214	3.00000	1.25992	2.71442	5.84804	.500000
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
2.00	4.0000	1.41421	4.47214	8.00000	1.25992	2.71442	5.84804	.500000
2.01	4.0401	1.41774	4.48330	8.12060	1.26202	2.71893	5.85777	.497512
2.02	4.0804	1.42127	4.49444	8.24241	1.26411	2.72344	5.86746	.495050
2.03	4.1209	1.42478	4.50555	8.36543	1.26619	2.72792	5.87713	.492611
2.04	4.1616	1.42829	4.51664	8.48966	1.26827	2.73239	5.88677	.490196
2.05	4.2025	1.43178	4.52769	8.61512	1.27033	2.73685	5.89637	.487805
2.06	4.2436	1.43527	4.53872	8.74182	1.27240	2.74129	5.90594	.485437
2.07	4.2849	1.43875	4.54973	8.86974	1.27445	2.74572	5.91548	.483092
2.08	4.3264	1.44222	4.56070	8.99891	1.27650	2.75014	5.92499	.480769
2.09	4.3681	1.44568	4.57165	9.12933	1.27854	2.75454	5.93447	.478469
2.10	4.4100	1.44914	4.58258	9.26100	1.28058	2.75892	5.94392	.476190
2.11	4.4521	1.45258	4.59347	9.39393	1.28261	2.76330	5.95334	.473934
2.12	4.4944	1.45602	4.60435	9.52813	1.28463	2.76766	5.96273	.471698
2.13	4.5369	1.45945	4.61519	9.66360	1.28665	2.77200	5.97209	.469434
2.14	4.5796	1.46287	4.62601	9.80034	1.28866	2.77633	5.98142	.467290
2.15	4.6225	1.46629	4.63681	9.93838	1.29066	2.78065	5.99073	.465116
2.16	4.6656	1.46969	4.64758	10.0777	1.29266	2.78495	6.00000	.462963
2.17	4.7089	1.47309	4.65833	10.2183	1.29465	2.78924	6.00925	.460829
2.18	4.7524	1.47648	4.66905	10.3602	1.29664	2.79352	6.01846	.458716
2.19	4.7961	1.47986	4.67974	10.5035	1.29862	2.79779	6.02765	.456621
2.20	4.8400	1.48324	4.69042	10.6480	1.30059	2.80204	6.03681	.454545
2.21	4.8841	1.48661	4.70106	10.7939	1.30256	2.80628	6.04594	.452489
2.22	4.9284	1.48997	4.71169	10.9410	1.30452	2.81050	6.05505	.450450
2.23	4.9729	1.49332	4.72229	11.0896	1.30648	2.81472	6.06413	.448430
2.24	5.0176	1.49666	4.73286	11.2394	1.30843	2.81892	6.07318	.446429
2.25	5.0625	1.50000	4.74342	11.3906	1.31037	2.82311	6.08220	.444444
2.26	5.1076	1.50333	4.75395	11.5432	1.31231	2.82728	6.09120	.442478
2.27	5.1529	1.50665	4.76445	11.6971	1.31424	2.83145	6.10017	.440529
2.28	5.1984	1.50997	4.77493	11.8524	1.31617	2.83560	6.10911	.438596
2.29	5.2441	1.51327	4.78539	12.0090	1.31809	2.83974	6.11803	.436681
2.30	5.2900	1.51658	4.79583	12.1670	1.32001	2.84387	6.12693	.434783
2.31	5.3361	1.51987	4.80625	12.3264	1.32192	2.84798	6.13579	.432900
2.32	5.3824	1.52315	4.81664	12.4872	1.32382	2.85209	6.14463	.431034
2.33	5.4289	1.52643	4.82701	12.6493	1.32572	2.85618	6.15345	.429185
2.34	5.4756	1.52971	4.83735	12.8129	1.32761	2.86026	6.16224	.427350
2.35	5.5225	1.53297	4.84768	12.9779	1.32950	2.86433	6.17101	.425532
2.36	5.5696	1.53623	4.85798	13.1443	1.33139	2.86838	6.17975	.423729
2.37	5.6169	1.53948	4.86826	13.3121	1.33326	2.87243	6.18846	.421941
2.38	5.6644	1.54272	4.87852	13.4813	1.33514	2.87646	6.19715	.420168
2.39	5.7121	1.54596	4.88876	13.6519	1.33700	2.88049	6.20582	.418410
2.40	5.7600	1.54919	4.89898	13.8240	1.33887	2.88450	6.21447	.416667
2.41	5.8081	1.55242	4.90918	13.9975	1.34072	2.88850	6.22308	.414938
2.42	5.8564	1.55563	4.91935	14.1725	1.34257	2.89249	6.23168	.413223
2.43	5.9049	1.55885	4.92950	14.3489	1.34442	2.89647	6.24025	.411523
2.44	5.9536	1.56205	4.93964	14.5268	1.34626	2.90044	6.24880	.409836
2.45	6.0025	1.56525	4.94975	14.7061	1.34810	2.90439	6.25732	.408163
2.46	6.0516	1.56844	4.95984	14.8869	1.34993	2.90834	6.26583	.406504
2.47	6.1009	1.57162	4.96991	15.0692	1.35176	2.91227	6.27431	.404858
2.48	6.1504	1.57480	4.97996	15.2530	1.35358	2.91620	6.28276	.403226
2.49	6.2001	1.57797	4.98999	15.4382	1.35540	2.92011	6.29119	.401606
2.50	6.2500	1.58114	5.00000	15.6250	1.35721	2.92402	6.29961	.400000
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
2.50	6.2500	1.58114	5.00000	15.6250	1.35721	2.92402	6.29961	.400000
2.51	6.3001	1.58430	5.00999	15.8133	1.35902	2.92791	6.30799	.398406
2.52	6.3504	1.58745	5.01996	16.0030	1.36082	2.93179	6.31636	.396825
2.53	6.4009	1.59060	5.02991	16.1943	1.36262	2.93567	6.32470	.395257
2.54	6.4516	1.59374	5.03984	16.3871	1.36441	2.93953	6.33303	.393701
2.55	6.5025	1.59687	5.04975	16.5814	1.36620	2.94338	6.34133	.392157
2.56	6.5536	1.60000	5.05964	16.7772	1.36798	2.94723	6.34960	.390625
2.57	6.6049	1.60312	5.06952	16.9746	1.36976	2.95106	6.35786	.389105
2.58	6.6564	1.60624	5.07937	17.1735	1.37153	2.95488	6.36610	.387597
2.59	6.7081	1.60935	5.08920	17.3740	1.37330	2.95869	6.37431	.386100
2.60	6.7600	1.61245	5.09902	17.5760	1.37507	2.96250	6.38250	.384615
2.61	6.8121	1.61555	5.10882	17.7796	1.37683	2.96629	6.39068	.383142
2.62	6.8644	1.61864	5.11859	17.9847	1.37859	2.97007	6.39883	.381679
2.63	6.9169	1.62173	5.12835	18.1914	1.38034	2.97385	6.40696	.380228
2.64	6.9696	1.62481	5.13809	18.3997	1.38208	2.97761	6.41507	.378788
2.65	7.0225	1.62788	5.14782	18.6096	1.38383	2.98137	6.42316	.377358
2.66	7.0756	1.63095	5.15752	18.8211	1.38557	2.98511	6.43123	.375940
2.67	7.1289	1.63401	5.16720	19.0342	1.38730	2.98885	6.43928	.374532
2.68	7.1824	1.63707	5.17687	19.2488	1.38903	2.99257	6.44731	.373134
2.69	7.2361	1.64012	5.18652	19.4651	1.39076	2.99629	6.45531	.371747
2.70	7.2900	1.64317	5.19615	19.6830	1.39248	3.00000	6.46330	.370370
2.71	7.3441	1.64621	5.20577	19.9025	1.39419	3.00370	6.47127	.369004
2.72	7.3984	1.64924	5.21536	20.1236	1.39591	3.00739	6.47922	.367647
2.73	7.4529	1.65227	5.22494	20.3464	1.39761	3.01107	6.48715	.366300
2.74	7.5076	1.65529	5.23450	20.5708	1.39932	3.01474	6.49507	.364964
2.75	7.5625	1.65831	5.24404	20.7969	1.40102	3.01841	6.50296	.363636
2.76	7.6176	1.66132	5.25357	21.0246	1.40272	3.02206	6.51083	.362319
2.77	7.6729	1.66433	5.26308	21.2539	1.40441	3.02570	6.51868	.361011
2.78	7.7284	1.66733	5.27257	21.4850	1.40610	3.02934	6.52652	.359712
2.79	7.7841	1.67033	5.28205	21.7176	1.40778	3.03297	6.53434	.358423
2.80	7.8400	1.67332	5.29150	21.9520	1.40946	3.03659	6.54213	.357143
2.81	7.8961	1.67631	5.30094	22.1880	1.41114	3.04020	6.54991	.355872
2.82	7.9524	1.67929	5.31037	22.4258	1.41281	3.04380	6.55767	.354610
2.83	8.0089	1.68226	5.31977	22.6652	1.41448	3.04740	6.56541	.353357
2.84	8.0656	1.68523	5.32917	22.9063	1.41614	3.05098	6.57314	.352113
2.85	8.1225	1.68819	5.33854	23.1491	1.41780	3.05456	6.58084	.350877
2.86	8.1796	1.69115	5.34790	23.3937	1.41946	3.05813	6.58853	.349650
2.87	8.2369	1.69411	5.35724	23.6399	1.42111	3.06169	6.59620	.348432
2.88	8.2944	1.69706	5.36656	23.8879	1.42276	3.06524	6.60385	.347222
2.89	8.3521	1.70000	5.37587	24.1376	1.42440	3.06878	6.61149	.346021
2.90	8.4100	1.70294	5.38516	24.3890	1.42604	3.07232	6.61911	.344828
2.91	8.4681	1.70587	5.39444	24.6422	1.42768	3.07584	6.62671	.343643
2.92	8.5264	1.70880	5.40370	24.8971	1.42931	3.07936	6.63429	.342466
2.93	8.5849	1.71172	5.41295	25.1538	1.43094	3.08287	6.64185	.341297
2.94	8.6436	1.71464	5.42218	25.4122	1.43257	3.08638	6.64940	.340136
2.95	8.7025	1.71756	5.43139	25.6724	1.43419	3.08987	6.65693	.338983
2.96	8.7616	1.72047	5.44059	25.9343	1.43581	3.09336	6.66444	.337838
2.97	8.8209	1.72337	5.44977	26.1981	1.43743	3.09684	6.67194	.336700
2.98	8.8804	1.72627	5.45894	26.4636	1.43904	3.10031	6.67942	.335570
2.99	8.9401	1.72916	5.46809	26.7309	1.44065	3.10378	6.68688	.334448
3.00	9.0000	1.73205	5.47723	27.0000	1.44225	3.10723	6.69433	.333333
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
3.00	9.0000	1.73205	5.47723	27.0000	1.44225	3.10723	6.69433	.333333
3.01	9.0601	1.73494	5.48635	27.2709	1.44385	3.11068	6.70176	.332226
3.02	9.1204	1.73781	5.49545	27.5436	1.44545	3.11412	6.70917	.331126
3.03	9.1809	1.74069	5.50454	27.8181	1.44704	3.11756	6.71657	.330033
3.04	9.2416	1.74356	5.51362	28.0945	1.44863	3.12098	6.72395	.328947
3.05	9.3025	1.74642	5.52268	28.3726	1.45022	3.12440	6.73132	.327869
3.06	9.3636	1.74929	5.53173	28.6526	1.45180	3.12781	6.73866	.326797
3.07	9.4249	1.75214	5.54076	28.9344	1.45338	3.13121	6.74600	.325733
3.08	9.4864	1.75499	5.54977	29.2181	1.45496	3.13461	6.75331	.324675
3.09	9.5481	1.75784	5.55878	29.5036	1.45653	3.13800	6.76061	.323625
3.10	9.6100	1.76068	5.56776	29.7910	1.45810	3.14138	6.76790	.322581
3.11	9.6721	1.76352	5.57674	30.0802	1.45967	3.14475	6.77517	.321543
3.12	9.7344	1.76635	5.58570	30.3713	1.46123	3.14812	6.78242	.320513
3.13	9.7969	1.76918	5.59464	30.6643	1.46279	3.15148	6.78966	.319489
3.14	9.8596	1.77200	5.60357	30.9591	1.46434	3.15483	6.79688	.318471
3.15	9.9225	1.77482	5.61249	31.2559	1.46590	3.15818	6.80409	.317460
3.16	9.9856	1.77764	5.62139	31.5545	1.46745	3.16152	6.81128	.316456
3.17	10.0489	1.78045	5.63028	31.8550	1.46899	3.16485	6.81846	.315457
3.18	10.1124	1.78326	5.63915	32.1574	1.47054	3.16817	6.82562	.314465
3.19	10.1761	1.78606	5.64801	32.4618	1.47208	3.17149	6.83277	.313480
3.20	10.2400	1.78885	5.65685	32.7680	1.47361	3.17480	6.83990	.312500
3.21	10.3041	1.79165	5.66569	33.0762	1.47515	3.17811	6.84702	.311526
3.22	10.3684	1.79444	5.67450	33.3862	1.47668	3.18140	6.85412	.310559
3.23	10.4329	1.79722	5.68331	33.6983	1.47820	3.18469	6.86121	.309598
3.24	10.4976	1.80000	5.69210	34.0122	1.47973	3.18798	6.86829	.308642
3.25	10.5625	1.80278	5.70088	34.3281	1.48125	3.19125	6.87534	.307692
3.26	10.6276	1.80555	5.70964	34.6460	1.48277	3.19452	6.88239	.306748
3.27	10.6929	1.80831	5.71839	34.9658	1.48428	3.19778	6.88942	.305810
3.28	10.7584	1.81108	5.72713	35.2876	1.48579	3.20104	6.89643	.304878
3.29	10.8241	1.81384	5.73585	35.6113	1.48730	3.20429	6.90344	.303951
3.30	10.8900	1.81659	5.74456	35.9370	1.48881	3.20753	6.91042	.303030
3.31	10.9561	1.81934	5.75326	36.2647	1.49031	3.21077	6.91740	.302115
3.32	11.0224	1.82209	5.76194	36.5944	1.49181	3.21400	6.92436	.301205
3.33	11.0889	1.82483	5.77062	36.9260	1.49330	3.21722	6.93130	.300300
3.34	11.1556	1.82757	5.77927	37.2597	1.49480	3.22044	6.93823	.299401
3.35	11.2225	1.83030	5.78792	37.5954	1.49629	3.22365	6.94515	.298507
3.36	11.2896	1.83303	5.79655	37.9331	1.49777	3.22686	6.95205	.297619
3.37	11.3569	1.83576	5.80517	38.2728	1.49926	3.23006	6.95894	.296736
3.38	11.4244	1.83848	5.81378	38.6145	1.50074	3.23325	6.96582	.295858
3.39	11.4921	1.84120	5.82237	38.9582	1.50222	3.23643	6.97268	.294985
3.40	11.5600	1.84391	5.83095	39.3040	1.50369	3.23961	6.97953	.294118
3.41	11.6281	1.84662	5.83952	39.6518	1.50517	3.24278	6.98637	.293255
3.42	11.6964	1.84932	5.84808	40.0017	1.50664	3.24595	6.99319	.292398
3.43	11.7649	1.85203	5.85662	40.3536	1.50810	3.24911	7.00000	.291545
3.44	11.8336	1.85472	5.86515	40.7076	1.50957	3.25227	7.00680	.290698
3.45	11.9025	1.85742	5.87367	41.0636	1.51103	3.25542	7.01358	.289855
3.46	11.9716	1.86011	5.88218	41.4217	1.51249	3.25856	7.02035	.289017
3.47	12.0409	1.86279	5.89067	41.7819	1.51394	3.26169	7.02711	.288184
3.48	12.1104	1.86548	5.89915	42.1442	1.51540	3.26482	7.03385	.287356
3.49	12.1801	1.86815	5.90762	42.5085	1.51685	3.26795	7.04058	.286533
3.50	12.2500	1.87083	5.91608	42.8750	1.51829	3.27107	7.04730	.285714
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
3.50	12.2500	1.87083	5.91608	42.8750	1.51829	3.27107	7.04730	.285714
3.51	12.3201	1.87350	5.92453	43.2436	1.51974	3.27418	7.05400	.284900
3.52	12.3904	1.87617	5.93296	43.6142	1.52118	3.27729	7.06070	.284091
3.53	12.4609	1.87883	5.94138	43.9870	1.52262	3.28039	7.06738	.283286
3.54	12.5316	1.88149	5.94979	44.3619	1.52406	3.28348	7.07404	.282486
3.55	12.6025	1.88414	5.95819	44.7389	1.52549	3.28657	7.08070	.281690
3.56	12.6736	1.88680	5.96657	45.1180	1.52692	3.28965	7.08734	.280899
3.57	12.7449	1.88944	5.97495	45.4993	1.52835	3.29273	7.09397	.280112
3.58	12.8164	1.89209	5.98331	45.8827	1.52978	3.29580	7.10059	.279330
3.59	12.8881	1.89473	5.99166	46.2683	1.53120	3.29887	7.10719	.278552
3.60	12.9600	1.89737	6.00000	46.6560	1.53262	3.30193	7.11379	.277778
3.61	13.0321	1.90000	6.00833	47.0459	1.53404	3.30498	7.12037	.277008
3.62	13.1044	1.90263	6.01664	47.4379	1.53545	3.30803	7.12694	.276243
3.63	13.1769	1.90526	6.02495	47.8321	1.53686	3.31107	7.13349	.275482
3.64	13.2496	1.90788	6.03324	48.2285	1.53827	3.31411	7.14004	.274725
3.65	13.3225	1.91050	6.04152	48.6271	1.53968	3.31714	7.14657	.273973
3.66	13.3956	1.91311	6.04979	49.0279	1.54109	3.32017	7.15309	.273224
3.67	13.4689	1.91572	6.05805	49.4309	1.54249	3.32319	7.15960	.272480
3.68	13.5424	1.91833	6.06630	49.8360	1.54389	3.32621	7.16610	.271739
3.69	13.6161	1.92094	6.07454	50.2434	1.54529	3.32922	7.17258	.271003
3.70	13.6900	1.92354	6.08276	50.6530	1.54668	3.33222	7.17905	.270270
3.71	13.7641	1.92614	6.09098	51.0648	1.54807	3.33522	7.18552	.269542
3.72	13.8384	1.92873	6.09918	51.4788	1.54946	3.33822	7.19197	.268817
3.73	13.9129	1.93132	6.10737	51.8951	1.55085	3.34120	7.19840	.268097
3.74	13.9876	1.93391	6.11555	52.3136	1.55223	3.34419	7.20483	.267380
3.75	14.0625	1.93649	6.12372	52.7344	1.55362	3.34716	7.21125	.266667
3.76	14.1376	1.93907	6.13188	53.1574	1.55500	3.35014	7.21765	.265957
3.77	14.2129	1.94165	6.14003	53.5826	1.55637	3.35310	7.22405	.265252
3.78	14.2884	1.94422	6.14817	54.0102	1.55775	3.35607	7.23043	.264550
3.79	14.3641	1.94679	6.15630	54.4399	1.55912	3.35902	7.23680	.263852
3.80	14.4400	1.94936	6.16441	54.8720	1.56049	3.36198	7.24316	.263158
3.81	14.5161	1.95192	6.17252	55.3063	1.56186	3.36492	7.24950	.262467
3.82	14.5924	1.95448	6.18061	55.7430	1.56322	3.36786	7.25584	.261780
3.83	14.6689	1.95704	6.18870	56.1819	1.56459	3.37080	7.26217	.261097
3.84	14.7456	1.95959	6.19677	56.6231	1.56595	3.37373	7.26848	.260417
3.85	14.8225	1.96214	6.20484	57.0666	1.56731	3.37666	7.27479	.259740
3.86	14.8996	1.96469	6.21289	57.5125	1.56866	3.37958	7.28108	.259067
3.87	14.9769	1.96723	6.22093	57.9606	1.57001	3.38249	7.28736	.258398
3.88	15.0544	1.96977	6.22896	58.4111	1.57137	3.38540	7.29363	.257732
3.89	15.1321	1.97231	6.23699	58.8639	1.57271	3.38831	7.29989	.257069
3.90	15.2100	1.97484	6.24500	59.3190	1.57406	3.39121	7.30614	.256410
3.91	15.2881	1.97737	6.25300	59.7765	1.57541	3.39411	7.31238	.255754
3.92	15.3664	1.97990	6.26099	60.2363	1.57675	3.39700	7.31861	.255102
3.93	15.4449	1.98242	6.26897	60.6985	1.57809	3.39988	7.32483	.254453
3.94	15.5236	1.98494	6.27694	61.1630	1.57942	3.40277	7.33104	.253807
3.95	15.6025	1.98746	6.28490	61.6299	1.58076	3.40564	7.33723	.253165
3.96	15.6816	1.98997	6.29285	62.0991	1.58209	3.40851	7.34342	.252525
3.97	15.7609	1.99249	6.30079	62.5708	1.58342	3.41138	7.34960	.251889
3.98	15.8404	1.99499	6.30872	63.0448	1.58475	3.41424	7.35576	.251256
3.99	15.9201	1.99750	6.31664	63.5212	1.58608	3.41710	7.36192	.250627
4.00	16.0000	2.00000	6.32456	64.0000	1.58740	3.41995	7.36806	.250000
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
4.00	16.0000	2.00000	6.32456	64.0000	1.58740	3.41995	7.36806	.250000
4.01	16.0801	2.00250	6.33246	64.4812	1.58872	3.42280	7.37420	.249377
4.02	16.1604	2.00499	6.34033	64.9648	1.59004	3.42564	7.38032	.248756
4.03	16.2409	2.00749	6.34823	65.4508	1.59136	3.42848	7.38644	.248139
4.04	16.3216	2.00998	6.35610	65.9393	1.59267	3.43131	7.39254	.247525
4.05	16.4025	2.01246	6.36396	66.4301	1.59399	3.43414	7.39864	.246914
4.06	16.4836	2.01494	6.37181	66.9234	1.59530	3.43697	7.40472	.246305
4.07	16.5649	2.01742	6.37966	67.4191	1.59661	3.43979	7.41080	.245700
4.08	16.6464	2.01990	6.38749	67.9173	1.59791	3.44260	7.41686	.245098
4.09	16.7281	2.02237	6.39531	68.4179	1.59922	3.44541	7.42291	.244499
4.10	16.8100	2.02485	6.40312	68.9210	1.60052	3.44822	7.42896	.243902
4.11	16.8921	2.02731	6.41093	69.4265	1.60182	3.45102	7.43499	.243309
4.12	16.9744	2.02978	6.41872	69.9345	1.60312	3.45382	7.44102	.242718
4.13	17.0569	2.03224	6.42651	70.4450	1.60441	3.45661	7.44703	.242131
4.14	17.1396	2.03470	6.43428	70.9579	1.60571	3.45939	7.45304	.241546
4.15	17.2225	2.03715	6.44205	71.4734	1.60700	3.46218	7.45904	.240964
4.16	17.3056	2.03961	6.44981	71.9913	1.60829	3.46496	7.46502	.240385
4.17	17.3889	2.04206	6.45755	72.5117	1.60958	3.46773	7.47100	.239808
4.18	17.4724	2.04450	6.46529	73.0346	1.61086	3.47050	7.47697	.239234
4.19	17.5561	2.04695	6.47302	73.5601	1.61215	3.47327	7.48292	.238663
4.20	17.6400	2.04939	6.48074	74.0880	1.61343	3.47603	7.48887	.238095
4.21	17.7241	2.05183	6.48845	74.6185	1.61471	3.47878	7.49481	.237530
4.22	17.8084	2.05426	6.49615	75.1514	1.61599	3.48154	7.50074	.236967
4.23	17.8929	2.05670	6.50384	75.6870	1.61726	3.48428	7.50666	.236407
4.24	17.9776	2.05913	6.51153	76.2250	1.61853	3.48703	7.51257	.235849
4.25	18.0625	2.06155	6.51920	76.7656	1.61981	3.48977	7.51847	.235294
4.26	18.1476	2.06398	6.52687	77.3088	1.62108	3.49250	7.52437	.234742
4.27	18.2329	2.06640	6.53452	77.8545	1.62234	3.49523	7.53025	.234192
4.28	18.3184	2.06882	6.54217	78.4028	1.62361	3.49796	7.53612	.233645
4.29	18.4041	2.07123	6.54981	78.9536	1.62487	3.50068	7.54199	.233100
4.30	18.4900	2.07364	6.55744	79.5070	1.62613	3.50340	7.54784	.232558
4.31	18.5761	2.07605	6.56506	80.0630	1.62739	3.50611	7.55369	.232019
4.32	18.6624	2.07846	6.57267	80.6216	1.62865	3.50882	7.55953	.231481
4.33	18.7489	2.08087	6.58027	81.1827	1.62991	3.51153	7.56535	.230947
4.34	18.8356	2.08327	6.58787	81.7465	1.63116	3.51423	7.57117	.230415
4.35	18.9225	2.08567	6.59545	82.3129	1.63241	3.51692	7.57698	.229885
4.36	19.0096	2.08806	6.60303	82.8819	1.63366	3.51962	7.58279	.229358
4.37	19.0969	2.09045	6.61060	83.4535	1.63491	3.52231	7.58858	.228833
4.38	19.1844	2.09284	6.61816	84.0277	1.63619	3.52499	7.59436	.228311
4.39	19.2721	2.09523	6.62571	84.6045	1.63740	3.52767	7.60014	.227790
4.40	19.3600	2.09762	6.63325	85.1840	1.63864	3.53035	7.60590	.227273
4.41	19.4481	2.10000	6.64078	85.7661	1.63988	3.53302	7.61166	.226757
4.42	19.5364	2.10238	6.64831	86.3509	1.64112	3.53569	7.61741	.226244
4.43	19.6249	2.10476	6.65582	86.9383	1.64236	3.53835	7.62315	.225734
4.44	19.7136	2.10713	6.66333	87.5284	1.64359	3.54101	7.62888	.225225
4.45	19.8025	2.10950	6.67083	88.1211	1.64483	3.54367	7.63461	.224719
4.46	19.8916	2.11187	6.67832	88.7165	1.64606	3.54632	7.64032	.224215
4.47	19.9809	2.11424	6.68581	89.3146	1.64729	3.54897	7.64603	.223714
4.48	20.0704	2.11660	6.69328	89.9154	1.64851	3.55162	7.65172	.223214
4.49	20.1601	2.11896	6.70075	90.5188	1.64974	3.55426	7.65741	.222717
4.50	20.2500	2.12132	6.70820	91.1250	1.65096	3.55689	7.66309	.222222
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
4.50	20.2500	2.12132	6.70820	91.1250	1.65096	3.55689	7.66309	.222222
4.51	20.3401	2.12368	6.71565	91.7339	1.65219	3.55953	7.66877	.221729
4.52	20.4304	2.12603	6.72309	92.3454	1.65341	3.56215	7.67443	.221239
4.53	20.5209	2.12838	6.73053	92.9597	1.65462	3.56478	7.68009	.220751
4.54	20.6116	2.13073	6.73795	93.5767	1.65584	3.56740	7.68573	.220264
4.55	20.7025	2.13307	6.74537	94.1964	1.65706	3.57002	7.69137	.219780
4.56	20.7936	2.13542	6.75278	94.8188	1.65827	3.57263	7.69700	.219298
4.57	20.8849	2.13776	6.76018	95.4440	1.65948	3.57524	7.70262	.218818
4.58	20.9764	2.14009	6.76757	96.0719	1.66069	3.57785	7.70824	.218341
4.59	21.0681	2.14243	6.77495	96.7026	1.66190	3.58045	7.71384	.217865
4.60	21.1600	2.14476	6.78233	97.3360	1.66310	3.58305	7.71944	.217391
4.61	21.2521	2.14709	6.78970	97.9722	1.66431	3.58564	7.72503	.216920
4.62	21.3444	2.14942	6.79706	98.6111	1.66551	3.58823	7.73061	.216450
4.63	21.4369	2.15174	6.80441	99.2528	1.66671	3.59082	7.73619	.215983
4.64	21.5296	2.15407	6.81175	99.8973	1.66791	3.59340	7.74175	.215517
4.65	21.6225	2.15639	6.81909	100.545	1.66911	3.59598	7.74731	.215054
4.66	21.7156	2.15870	6.82642	101.195	1.67030	3.59856	7.75286	.214592
4.67	21.8089	2.16102	6.83374	101.848	1.67150	3.60113	7.75840	.214133
4.68	21.9024	2.16333	6.84105	102.503	1.67269	3.60370	7.76394	.213675
4.69	21.9961	2.16564	6.84836	103.162	1.67388	3.60626	7.76946	.213220
4.70	22.0900	2.16795	6.85565	103.823	1.67507	3.60883	7.77498	.212766
4.71	22.1841	2.17025	6.86294	104.487	1.67626	3.61138	7.78049	.212314
4.72	22.2784	2.17256	6.87023	105.154	1.67744	3.61394	7.78599	.211864
4.73	22.3729	2.17486	6.87750	105.824	1.67863	3.61649	7.79149	.211416
4.74	22.4676	2.17715	6.88477	106.496	1.67981	3.61903	7.79697	.210970
4.75	22.5625	2.17945	6.89202	107.172	1.68099	3.62158	7.80245	.210526
4.76	22.6576	2.18174	6.89928	107.850	1.68217	3.62412	7.80793	.210084
4.77	22.7529	2.18403	6.90652	108.531	1.68334	3.62665	7.81339	.209644
4.78	22.8484	2.18632	6.91375	109.215	1.68452	3.62919	7.81885	.209205
4.79	22.9441	2.18861	6.92098	109.902	1.68569	3.63172	7.82429	.208768
4.80	23.0400	2.19089	6.92820	110.592	1.68687	3.63424	7.82974	.208333
4.81	23.1361	2.19317	6.93542	111.285	1.68804	3.63676	7.83517	.207900
4.82	23.2324	2.19545	6.94262	111.980	1.68920	3.63928	7.84059	.207469
4.83	23.3289	2.19773	6.94982	112.679	1.69037	3.64180	7.84601	.207039
4.84	23.4256	2.20000	6.95701	113.380	1.69154	3.64431	7.85142	.206612
4.85	23.5225	2.20227	6.96419	114.084	1.69270	3.64682	7.85683	.206186
4.86	23.6196	2.20454	6.97137	114.791	1.69386	3.64932	7.86222	.205761
4.87	23.7169	2.20681	6.97854	115.501	1.69503	3.65182	7.86761	.205339
4.88	23.8144	2.20907	6.98570	116.214	1.69619	3.65432	7.87299	.204918
4.89	23.9121	2.21133	6.99285	116.930	1.69734	3.65681	7.87837	.204499
4.90	24.0100	2.21359	7.00000	117.649	1.69850	3.65931	7.88374	.204082
4.91	24.1081	2.21585	7.00714	118.371	1.69965	3.66179	7.88909	.203666
4.92	24.2064	2.21811	7.01427	119.095	1.70081	3.66428	7.89445	.203252
4.93	24.3049	2.22036	7.02140	119.823	1.70196	3.66676	7.89979	.202840
4.94	24.4036	2.22261	7.02851	120.554	1.70311	3.66924	7.90513	.202429
4.95	24.5025	2.22486	7.03562	121.287	1.70426	3.67171	7.91046	.202020
4.96	24.6016	2.22711	7.04273	122.024	1.70540	3.67418	7.91578	.201613
4.97	24.7009	2.22935	7.04982	122.763	1.70655	3.67665	7.92110	.201207
4.98	24.8004	2.23159	7.05691	123.506	1.70769	3.67911	7.92641	.200803
4.99	24.9001	2.23383	7.06399	124.251	1.70884	3.68157	7.93171	.200401
5.00	25.0000	2.23607	7.07107	125.000	1.70998	3.68403	7.93701	.200000
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
5.00	25.0000	2.23607	7.07107	125.000	1.70998	3.68403	7.93701	.200000
5.01	25.1001	2.23830	7.07814	125.752	1.71112	3 68649	7.94229	.199601
5 02	25.2004	2.24054	7.08520	126.506	1.71225	3.68894	7.94757	.199203
5.03	25.3009	2.24277	7.09225	127.264	1.71339	3.69138	7.95285	.198807
5.04	25.4016	2.24499	7.09930	128.024	1.71452	3.69383	7.95811	.198413
5.05	25.5025	2.24722	7.10634	128.788	1.71566	3.69627	7.96337	.198020
5.06	25.6036	2.24944	7.11337	129.554	1.71679	3.69871	7.96863	.197628
5.07	25.7049	2.25167	7.12039	130.324	1.71792	3.70114	7.97387	.197239
5.08	25.8064	2.25389	7.12741	131.097	1.71905	3.70357	7.97911	.196850
5.09	25.9081	2.25610	7.13442	131.872	1.72017	3.70600	7.98434	.196464
5.10	26.0100	2.25832	7.14143	132.651	1.72130	3.70843	7.98957	.196078
5.11	26.1121	2.26053	7.14843	133.433	1.72242	3.71085	7.99479	.195695
5.12	26.2144	2.26274	7.15542	134.218	1.72355	3.71327	8.00000	.195312
5.13	26.3169	2.26495	7.16240	135.006	1.72467	3.71569	8.00520	.194932
5.14	26.4196	2.26716	7.16938	135.797	1.72579	3.71810	8.01040	.194553
5.15	26.5225	2.26936	7.17635	136.591	1.72691	3.72051	8.01559	.194175
5.16	26.6256	2.27156	7.18331	137.388	1.72802	3.72292	8.02078	.193798
5.17	26.7289	2.27376	7.19027	138.188	1.72914	3.72532	8.02596	.193424
5.18	26.8324	2.27596	7.19722	138.992	1.73025	3.72772	8.03113	.193050
5.19	26.9361	2.27816	7.20417	139.798	1.73137	3.73012	8.03629	.192678
5.20	27.0400	2.28035	7.21110	140.608	1.73248	3.73251	8.04145	.192308
5.21	27.1441	2.28254	7.21803	141.421	1.73359	3.73490	8.04660	.191939
5.22	27.2484	2.28473	7.22496	142.237	1.73470	3.73729	8.05175	.191571
5.23	27.3529	2.28692	7.23187	143.056	1.73580	3.73968	8.05689	.191205
5.24	27.4576	2.28910	7.23878	143.878	1.73691	3.74206	8.06202	.190840
5.25	27.5625	2.29129	7.24569	144.703	1.73801	3.74443	8.06714	.190476
5.26	27.6676	2.29347	7.25259	145.532	1.73912	3.74681	8.07226	.190114
5.27	27.7729	2.29565	7.25948	146.363	1.74022	3.74918	8.07737	.189753
5.28	27.8784	2.29783	7.26636	147.198	1.74132	3.75155	8.08248	.189394
5.29	27.9841	2.30000	7.27324	148.036	1.74242	3.75392	8.08758	.189036
5.30	28.0900	2.30217	7.28011	148.877	1.74351	3.75629	8.09267	.188679
5.31	28.1961	2.30434	7.28697	149.721	1.74461	3.75865	8.09776	.188324
5.32	28.3024	2.30651	7.29383	150.569	1.74570	3.76101	8.10284	.187970
5.33	28.4089	2.30868	7.30068	151.419	1.74680	3.76336	8.10791	.187617
5.34	28.5156	2.31084	7.30753	152.273	1.74789	3.76571	8.11298	.187266
5.35	28.6225	2.31301	7.31437	153.130	1.74898	3.76806	8.11804	.186916
5.36	28.7296	2.31517	7.32120	153.991	1.75007	3.77041	8.12310	.186567
5.37	28.8369	2.31733	7.32803	154.854	1.75116	3.77275	8.12814	.186220
5.38	28.9444	2.31948	7.33485	155.721	1.75224	3.77509	8.13319	.185874
5.39	29.0521	2.32164	7.34166	156.591	1.75333	3.77743	8.13822	.185529
5.40	29.1600	2.32379	7.34847	157.464	1.75441	3.77976	8.14325	.185185
5.41	29.2681	2.32594	7.35527	158.340	1.75549	3.78209	8.14828	.184843
5.42	29.3764	2.32809	7.36206	159.220	1.75657	3.78442	8.15329	.184502
5.43	29.4849	2.33024	7.36885	160.103	1.75765	3.78675	8.15831	.184162
5.44	29.5936	2.33238	7.37564	160.989	1.75873	3.78907	8.16331	.183824
5.45	29.7025	2.33452	7.38241	161.879	1.75981	3.79139	8.16831	.183486
5.46	29.8116	2.33666	7.38918	162.771	1.76088	3.79371	8.17330	.183150
5.47	29.9209	2.33880	7.39594	163.667	1.76196	3.79603	8.17829	.182815
5.48	30.0304	2.34094	7.40270	164.567	1.76303	3.79834	8.18327	.182482
5.49	30.1401	2.34307	7.40945	165.469	1.76410	3.80065	8.18824	.182149
5.50	30.2500	2.34521	7.41620	166.375	1.76517	3.80295	8.19321	.181818
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
5.50	30.2500	2.34521	7.41620	166.375	1.76517	3.80295	8.19321	.181818
5.51	30.3601	2.34734	7.42294	167.284	1.76624	3.80526	8.19818	.181488
5.52	30.4704	2.34947	7.42967	168.197	1.76731	3.80756	8.20313	.181159
5.53	30.5809	2.35160	7.43640	169.112	1.76838	3.80985	8.20808	.180832
5.54	30.6916	2.35372	7.44312	170.031	1.76944	3.81215	8.21303	.180505
5.55	30.8025	2.35584	7.44983	170.954	1.77051	3.81444	8.21797	.180180
5.56	30.9136	2.35797	7.45654	171.880	1.77157	3.81673	8.22290	.179856
5.57	31.0249	2.36008	7.46324	172.809	1.77263	3.81902	8.22783	.179533
5.58	31.1364	2.36220	7.46994	173.741	1.77369	3.82130	8.23275	.179211
5.59	31.2481	2.36432	7.47663	174.677	1.77475	3.82358	8.23766	.178891
5.60	31.3600	2.36643	7.48331	175.616	1.77581	3.82586	8.24257	.178571
5.61	31.4721	2.36854	7.48999	176.558	1.77686	3.82814	8.24747	.178253
5.62	31.5844	2.37065	7.49667	177.504	1.77792	3.83041	8.25237	.177936
5.63	31.6969	2.37276	7.50333	178.454	1.77897	3.83268	8.25726	.177620
5.64	31.8096	2.37487	7.50999	179.406	1.78003	3.83495	8.26215	.177305
5.65	31.9225	2.37697	7.51665	180.362	1.78108	3.83722	8.26703	.176991
5.66	32.0356	2.37908	7.52330	181.321	1.78213	3.83948	8.27190	.176678
5.67	32.1489	2.38118	7.52994	182.284	1.78318	3.84174	8.27677	.176367
5.68	32.2624	2.38328	7.53658	183.250	1.78422	3.84399	8.28164	.176056
5.69	32.3761	2.38537	7.54321	184.220	1.78527	3.84625	8.28649	.175747
5.70	32.4900	2.38747	7.54983	185.193	1.78632	3.84850	8.29134	.175439
5.71	32.6041	2.38956	7.55645	186.169	1.78736	3.85075	8.29619	.175131
5.72	32.7184	2.39165	7.56307	187.149	1.78840	3.85300	8.30103	.174825
5.73	32.8329	2.39374	7.56968	188.133	1.78944	3.85524	8.30587	.174520
5.74	32.9476	2.39583	7.57628	189.119	1.79048	3.85748	8.31069	.174216
5.75	33.0625	2.39792	7.58288	190.109	1.79152	3.85972	8.31552	.173913
5.76	33.1776	2.40000	7.58947	191.103	1.79256	3.86196	8.32034	.173611
5.77	33.2929	2.40208	7.59605	192.100	1.79360	3.86419	8.32515	.173310
5.78	33.4084	2.40416	7.60263	193.101	1.79463	3.86642	8.32995	.173010
5.79	33.5241	2.40624	7.60920	194.105	1.79567	3.86865	8.33476	.172712
5.80	33.6400	2.40832	7.61577	195.112	1.79670	3.87088	8.33955	.172414
5.81	33.7561	2.41039	7.62234	196.123	1.79773	3.87310	8.34434	.172117
5.82	33.8724	2.41247	7.62889	197.137	1.79876	3.87532	8.34913	.171821
5.83	33.9889	2.41454	7.63544	198.155	1.79979	3.87754	8.35390	.171527
5.84	34.1056	2.41661	7.64199	199.177	1.80082	3.87975	8.35868	.171233
5.85	34.2225	2.41868	7.64853	200.202	1.80185	3.88197	8.36345	.170940
5.86	34.3396	2.42074	7.65506	201.230	1.80288	3.88418	8.36821	.170649
5.87	34.4569	2.42281	7.66159	202.262	1.80390	3.88639	8.37297	.170358
5.88	34.5744	2.42487	7.66812	203.297	1.80492	3.88859	8.37772	.170068
5.89	34.6921	2.42693	7.67463	204.336	1.80595	3.89080	8.38247	.169779
5.90	34.8100	2.42899	7.68115	205.379	1.80697	3.89300	8.38721	.169492
5.91	34.9281	2.43105	7.68765	206.425	1.80799	3.89519	8.39194	.169205
5.92	35.0464	2.43311	7.69415	207.475	1.80901	3.89739	8.39667	.168919
5.93	35.1649	2.43516	7.70065	208.528	1.81003	3.89958	8.40140	.168634
5.94	35.2836	2.43721	7.70714	209.585	1.81104	3.90177	8.40612	.168350
5.95	35.4025	2.43926	7.71362	210.645	1.81206	3.90396	8.41083	.168067
5.96	35.5216	2.44131	7.72010	211.709	1.81307	3.90615	8.41554	.167785
5.97	35.6409	2.44336	7.72658	212.776	1.81409	3.90833	8.42025	.167504
5.98	35.7604	2.44540	7.73305	213.847	1.81510	3.91051	8.42494	.167224
5.99	35.8801	2.44745	7.73951	214.922	1.81611	3.91269	8.42964	.166945
6.00	36.0000	2.44949	7.74597	216.000	1.81712	3.91487	8.43433	.166667
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10\,n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10\,n}$	$\sqrt[3]{100\,n}$	$1/n$
6.00	36.0000	2.44949	7.74597	216.000	1.81712	3.91487	8.43433	.166667
6.01	36.1201	2.45153	7.75242	217.082	1.81813	3.91704	8.43901	.166389
6.02	36.2404	2.45357	7.75887	218.167	1.81914	3.91921	8.44369	.166113
6.03	36.3609	2.45561	7.76531	219.256	1.82014	3.92138	8.44836	.165837
6.04	36.4816	2.45764	7.77174	220.349	1.82115	3.92355	8.45303	.165563
6.05	36.6025	2.45967	7.77817	221.445	1.82215	3.92571	8.45769	.165289
6.06	36.7236	2.46171	7.78460	222.545	1.82316	3.92787	8.46235	.165017
6.07	36.8449	2.46374	7.79102	223.649	1.82416	3.93003	8.46700	.164745
6.08	36.9664	2.46577	7.79744	224.756	1.82516	3.93219	8.47165	.164474
6.09	37.0881	2.46779	7.80385	225.867	1.82616	3.93434	8.47629	.164204
6.10	37.2100	2.46982	7.81025	226.981	1.82716	3.93650	8.48093	.163934
6.11	37.3321	2.47184	7.81665	228.099	1.82816	3.93865	8.48556	.163666
6.12	37.4544	2.47386	7.82304	229.221	1.82915	3.94079	8.49018	.163399
6.13	37.5769	2.47588	7.82943	230.346	1.83015	3.94294	8.49481	.163132
6.14	37.6996	2.47790	7.83582	231.476	1.83115	3.94508	8.49942	.162866
6.15	37.8225	2.47992	7.84219	232.608	1.83214	3.94722	8.50403	.162602
6.16	37.9456	2.48193	7.84857	233.745	1.83313	3.94936	8.50864	.162338
6.17	38.0689	2.48395	7.85493	234.885	1.83412	3.95150	8.51324	.162075
6.18	38.1924	2.48596	7.86130	236.029	1.83511	3.95363	8.51784	.161812
6.19	38.3161	2.48797	7.86766	237.177	1.83610	3.95576	8.52243	.161551
6.20	38.4400	2.48998	7.87401	238.328	1.83709	3.95789	8.52702	.161290
6.21	38.5641	2.49199	7.88036	239.483	1.83808	3.96002	8.53160	.161031
6.22	38.6884	2.49399	7.88670	240.642	1.83906	3.96214	8.53618	.160772
6.23	38.8129	2.49600	7.89303	241.804	1.84005	3.96427	8.54075	.160514
6.24	38.9376	2.49800	7.89937	242.971	1.84103	3.96638	8.54532	.160256
6.25	39.0625	2.50000	7.90569	244.141	1.84202	3.96850	8.54988	.160000
6.26	39.1876	2.50200	7.91202	245.314	1.84300	3.97062	8.55444	.159744
6.27	39.3129	2.50400	7.91833	246.492	1.84398	3.97273	8.55899	.159490
6.28	39.4384	2.50599	7.92465	247.673	1.84496	3.97484	8.56354	.159236
6.29	39.5641	2.50799	7.93095	248.858	1.84594	3.97695	8.56808	.158983
6.30	39.6900	2.50998	7.93725	250.047	1.84691	3.97906	8.57262	.158730
6.31	39.8161	2.51197	7.94355	251.240	1.84789	3.98116	8.57715	.158479
6.32	39.9424	2.51396	7.94984	252.436	1.84887	3.98326	8.58168	.158228
6.33	40.0689	2.51595	7.95613	253.636	1.84984	3.98536	8.58620	.157978
6.34	40.1956	2.51794	7.96241	254.840	1.85082	3.98746	8.59072	.157729
6.35	40.3225	2.51992	7.96869	256.048	1.85179	3.98956	8.59524	.157480
6.36	40.4496	2.52190	7.97496	257.259	1.85276	3.99165	8.59975	.157233
6.37	40.5769	2.52389	7.98123	258.475	1.85373	3.99374	8.60425	.156986
6.38	40.7044	2.52587	7.98749	259 694	1.85470	3.99583	8.60875	.156740
6.39	40.8321	2.52784	7.99375	260.917	1.85567	3.99792	8.61325	.156495
6.40	40.9600	2.52982	8.00000	262.144	1.85664	4.00000	8.61774	.156250
6.41	41.0881	2.53180	8.00625	263.375	1.85760	4.00208	8.62222	.156006
6.42	41.2164	2.53377	8.01249	264.609	1.85857	4.00416	8.62671	155763
6.43	41.3449	2.53574	8.01873	265.848	1.85953	4.00624	8.63118	.155521
6.44	41.4736	2.53772	8.02496	267.090	1.86050	4.00832	8.63566	155280
6.45	41.6025	2.53969	8.03119	268.336	1.86146	4.01039	8.64012	.155039
6.46	41.7316	2.54165	8.03741	269.586	1.86242	4.01246	8.64459	154799
6.47	41.8609	2.54362	8.04363	270.840	1.86338	4.01453	8.64904	.154560
6.48	41.9904	2.54558	8.04984	272.098	1.86434	4.01660	8.65350	.154321
6.49	42.1201	2.54755	8.05605	273.359	1.86530	4.01866	8.65795	.154083
6.50	42.2500	2.54951	8.06226	274.625	1.86626	4.02073	8 66239	.153846
n	n^2	$\sqrt{n}$	$\sqrt{10\,n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10\,n}$	$\sqrt[3]{100\,n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
6.50	42.2500	2.54951	8.06226	274.625	1.86626	4.02073	8.66239	.153846
6.51	42.3801	2.55147	8.06846	275.894	1.86721	4.02279	8.66683	.153610
6.52	42.5104	2.55343	8.07465	277.168	1.86817	4.02485	8.67127	.153374
6.53	42.6409	2.55539	8.08084	278.445	1.86912	4.02690	8.67570	.153139
6.54	42.7716	2.55734	8.08703	279.726	1.87008	4.02896	8.68012	.152905
6.55	42.9025	2.55930	8.09321	281.011	1.87103	4.03101	8.68455	.152672
6.56	43.0336	2.56125	8.09938	282.300	1.87198	4.03306	8.68896	.152439
6.57	43.1649	2.56320	8.10555	283.593	1.87293	4.03511	8.69338	.152207
6.58	43.2964	2.56515	8.11172	284.890	1.87388	4.03715	8.69778	.151976
6.59	43.4281	2.56710	8.11788	286.191	1.87483	4.03920	8.70219	.151745
6.60	43.5600	2.56905	8.12404	287.496	1.87578	4.04124	8.70659	.151515
6.61	43.6921	2.57099	8.13019	288.805	1.87672	4.04328	8.71098	.151286
6.62	43.8244	2.57294	8.13634	290.118	1.87767	4.04532	8.71537	.151057
6.63	43.9569	2.57488	8.14248	291.434	1.87862	4.04735	8.71976	.150830
6.64	44.0896	2.57682	8.14862	292.755	1.87956	4.04939	8.72414	.150602
6.65	44.2225	2.57876	8.15475	294.080	1.88050	4.05142	8.72852	.150376
6.66	44.3556	2.58070	8.16088	295.408	1.88144	4.05345	8.73289	.150150
6.67	44.4889	2.58263	8.16701	296.741	1.88239	4.05548	8.73726	.149925
6.68	44.6224	2.58457	8.17313	298.078	1.88333	4.05750	8.74162	.149701
6.69	44.7561	2.58650	8.17924	299.418	1.88427	4.05953	8.74598	.149477
6.70	44.8900	2.58844	8.18535	300.763	1.88520	4.06155	8.75034	.149254
6.71	45.0241	2.59037	8.19146	302.112	1.88614	4.06357	8.75469	.149031
6.72	45.1584	2.59230	8.19756	303.464	1.88708	4.06559	8.75904	.148810
6.73	45.2929	2.59422	8.20366	304.821	1.88801	4.06760	8.76338	.148588
6.74	45.4276	2.59615	8.20975	306.182	1.88895	4.06961	8.76772	.148368
6.75	45.5625	2.59808	8.21584	307.547	1.88988	4.07163	8.77205	.148148
6.76	45.6976	2.60000	8.22192	308.916	1.89081	4.07364	8.77638	.147929
6.77	45.8329	2.60192	8.22800	310.289	1.89175	4.07564	8.78071	.147710
6.78	45.9684	2.60384	8.23408	311.666	1.89268	4.07765	8.78503	.147493
6.79	46.1041	2.60576	8.24015	313.047	1.89361	4.07965	8.78935	.147275
6.80	46.2400	2.60768	8.24621	314.432	1.89454	4.08166	8.79366	.147059
6.81	46.3761	2.60960	8.25227	315.821	1.89546	4.08365	8.79797	.146843
6.82	46.5124	2.61151	8.25833	317.215	1.89639	4.08565	8.80227	.146628
6.83	46.6489	2.61343	8.26438	318.612	1.89732	4.08765	8.80657	.146413
6.84	46.7856	2.61534	8.27043	320.014	1.89824	4.08964	8.81087	.146199
6.85	46.9225	2.61725	8.27647	321.419	1.89917	4.09163	8.81516	.145985
6.86	47.0596	2.61916	8.28251	322.829	1.90009	4.09362	8.81945	.145773
6.87	47.1969	2.62107	8.28855	324.243	1.90102	4.09561	8.82373	.145560
6.88	47.3344	2.62298	8.29458	325.661	1.90194	4.09760	8.82801	.145349
6.89	47.4721	2.62488	8.30060	327.083	1.90286	4.09958	8.83228	.145138
6.90	47.6100	2.62679	8.30662	328.509	1.90378	4.10157	8.83656	.144928
6.91	47.7481	2.62869	8.31264	329.939	1.90470	4.10355	8.84082	.144718
6.92	47.8864	2.63059	8.31865	331.374	1.90562	4.10552	8.84509	.144509
6.93	48.0249	2.63249	8.32466	332.813	1.90653	4.10750	8.84934	.144300
6.94	48.1636	2.63439	8.33067	334.255	1.90745	4.10948	8.85360	.144092
6.95	48.3025	2.63629	8.33667	335.702	1.90837	4.11145	8.85785	.143885
6.96	48.4416	2.63818	8.34266	337.154	1.90928	4.11342	8.86210	.143678
6.97	48.5809	2.64008	8.34865	338.609	1.91019	4.11539	8.86634	.143472
6.98	48.7204	2.64197	8.35464	340.068	1.91111	4.11736	8.87058	.143266
6.99	48.8601	2.64386	8.36062	341.532	1.91202	4.11932	8.87481	.143062
7.00	49.0000	2.64575	8.36660	343.000	1.91293	4.12129	8.87904	.142857
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10\,n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10\,n}$	$\sqrt[3]{100\,n}$	$1/n$
7.00	49.0000	2.64575	8.36660	343.000	1.91293	4.12129	8.87904	.142857
7.01	49.1401	2.64764	8.37257	344.472	1.91384	4.12325	8.88327	.142653
7.02	49.2804	2.64953	8.37854	345.948	1.91475	4.12521	8.88749	.142450
7.03	49.4209	2.65141	8.38451	347.429	1.91566	4.12716	8.89171	.142248
7.04	49.5616	2.65330	8.39047	348.914	1.91657	4.12912	8.89592	.142045
7.05	49.7025	2.65518	8.39643	350.403	1.91747	4.13107	8.90013	.141844
7.06	49.8436	2.65707	8.40238	351.896	1.91838	4.13303	8.90434	.141643
7.07	49.9849	2.65895	8.40833	353.393	1.91929	4.13498	8.90854	.141443
7.08	50.1264	2.66083	8.41427	354.895	1.92019	4.13693	8.91274	.141243
7.09	50.2681	2.66271	8.42021	356.401	1.92109	4.13887	8.91693	.141044
7.10	50.4100	2.66458	8.42615	357.911	1.92200	4.14082	8.92112	.140845
7.11	50.5521	2.66646	8.43208	359.425	1.92290	4.14276	8.92531	.140647
7.12	50.6944	2.66833	8.43801	360.944	1.92380	4.14470	8.92949	.140449
7.13	50.8369	2.67021	8.44393	362.467	1.92470	4.14664	8.93367	.140252
7.14	50.9796	2.67208	8.44985	363.994	1.92560	4.14858	8.93784	.140056
7.15	51.1225	2.67395	8.45577	365.526	1.92650	4.15052	8.94201	.139860
7.16	51.2656	2.67582	8.46168	367.062	1.92740	4.15245	8.94618	.139665
7.17	51.4089	2.67769	8.46759	368.602	1.92829	4.15438	8.95034	.139470
7.18	51.5524	2.67955	8.47349	370.146	1.92919	4.15631	8.95450	.139276
7.19	51.6961	2.68142	8.47939	371.695	1.93008	4.15824	8.95866	.139082
7.20	51.8400	2.68328	8.48528	373.248	1.93098	4.16017	8.96281	.138889
7.21	51.9841	2.68514	8.49117	374.805	1.93187	4.16209	8.96696	.138696
7.22	52.1284	2.68701	8.49706	376.367	1.93277	4.16402	8.97110	.138504
7.23	52.2729	2.68887	8.50294	377.933	1.93366	4.16594	8.97524	.138313
7.24	52.4176	2.69072	8.50882	379.503	1.93455	4.16786	8.97938	.138122
7.25	52.5625	2.69258	8.51469	381.078	1.93544	4.16978	8.98351	.137931
7.26	52.7076	2.69444	8.52056	382.657	1.93633	4.17169	8.98764	.137741
7.27	52 8529	2.69629	8.52643	384.241	1.93722	4.17361	8.99176	.137552
7.28	52.9984	2.69815	8.53229	385.828	1.93810	4.17552	8.99588	.137363
7.29	53.1441	2.70000	8.53815	387.420	1.93899	4.17743	9 00000	.137174
7.30	53.2900	2.70185	8.54400	389.017	1.93988	4.17934	9.00411	.136986
7.31	53.4361	2.70370	8.54985	390.618	1.94076	4.18125	9.00822	.136799
7.32	53.5824	2.70555	8.55570	392.223	1.94165	4.18315	9.01233	.136612
7.33	53.7289	2.70740	8.56154	393.833	1.94253	4.18506	9.01643	.136426
7.34	53.8756	2.70924	8.56738	395.447	1.94341	4.18696	9.02053	.136240
7.35	54.0225	2.71109	8.57321	397.065	1.94430	4.18886	9.02462	.136054
7.36	54.1696	2.71293	8.57904	398.688	1.94518	4.19076	9.02871	.135870
7.37	54.3169	2.71477	8.58487	400.316	1.94606	4 19266	9.03280	.135685
7.38	54.4644	2.71662	8.59069	401.947	1.94694	4.19455	9.03689	.135501
7.39	54.6121	2.71846	8.59651	403.583	1.94782	4.19644	9.04097	.135318
7.40	54.7600	2.72029	8.60233	405.224	1.94870	4.19834	9.04504	.135135
7.41	54.9081	2.72213	8.60814	406.869	1.94957	4.20023	9.04911	134953
7.42	55.0564	2.72397	8.61394	408.518	1.95045	4.20212	9.05318	.134771
7.43	55.2049	2.72580	8.61974	410.172	1.95132	4.20400	9.05725	.134590
7.44	55.3536	2.72764	8.62554	411.831	1.95220	4.20589	9.06131	.134409
7.45	55.5025	2.72947	8.63134	413.494	1.95307	4.20777	9.06537	.134228
7.46	55.6516	2.73130	8.63713	415.161	1.95395	4.20965	9.06942	.134048
7.47	55.8009	2.73313	8.64292	416.833	1.95482	4.21153	9.07347	.133869
7.48	55.9504	2.73496	8.64870	418.509	1.95569	4.21341	9.07752	.133690
7.49	56.1001	2.73679	8.65448	420.190	1.95656	4.21529	9.08156	.133511
7.50	56.2500	2.73861	8.66025	421.875	1.95743	4.21716	9.08560	.133333
n	n^2	$\sqrt{n}$	$\sqrt{10\,n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10\,n}$	$\sqrt[3]{100\,n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
7.50	56.2500	2.73861	8.66025	421.875	1.95743	4.21716	9.08560	.133333
7.51	56.4001	2.74044	8.66603	423.565	1.95830	4.21904	9.08964	.133156
7.52	56.5504	2.74226	8.67179	425.259	1.95917	4.22091	9.09367	.132979
7.53	56.7009	2.74408	8.67756	426.958	1.96004	4.22278	9.09770	.132802
7.54	56.8516	2.74591	8.68332	428.661	1.96091	4.22465	9.10173	.132626
7.55	57.0025	2.74773	8.68907	430.369	1.96177	4.22651	9.10575	.132450
7.56	57.1536	2.74955	8.69483	432.081	1.96264	4.22838	9.10977	.132275
7.57	57.3049	2.75136	8.70057	433.798	1.96350	4.23024	9.11378	.132100
7.58	57.4564	2.75318	8.70632	435.520	1.96437	4.23210	9.11779	.131926
7.59	57.6081	2.75500	8.71206	437.245	1.96523	4.23396	9.12180	.131752
7.60	57.7600	2.75681	8.71780	438.976	1.96610	4.23582	9.12581	.131579
7.61	57.9121	2.75862	8.72353	440.711	1.96696	4.23768	9.12981	.131406
7.62	58.0644	2.76043	8.72926	442.451	1.96782	4.23954	9.13380	.131234
7.63	58.2169	2.76225	8.73499	444.195	1.96868	4.24139	9.13780	.131062
7.64	58.3696	2.76405	8.74071	445.944	1.96954	4.24324	9.14179	.130890
7.65	58.5225	2.76586	8.74643	447.697	1.97040	4.24509	9.14577	.130719
7.66	58.6756	2.76767	8.75214	449.455	1.97126	4.24694	9.14976	.130548
7.67	58.8289	2.76948	8.75785	451.218	1.97211	4.24879	9.15374	.130378
7.68	58.9824	2.77128	8.76356	452.985	1.97297	4.25063	9.15771	.130208
7.69	59.1361	2.77308	8.76926	454.757	1.97383	4.25248	9.16169	.130039
7.70	59.2900	2.77489	8.77496	456.533	1.97468	4.25432	9.16566	.129870
7.71	59.4441	2.77669	8.78066	458.314	1.97554	4.25616	9.16962	.129702
7.72	59.5984	2.77849	8.78635	460.100	1.97639	4.25800	9.17359	.129534
7.73	59.7529	2.78029	8.79204	461.890	1.97724	4.25984	9.17754	.129366
7.74	59.9076	2.78209	8.79773	463.685	1.97809	4.26167	9.18150	.129199
7.75	60.0625	2.78388	8.80341	465.484	1.97895	4.26351	9.18545	.129032
7.76	60.2176	2.78568	8.80909	467.289	1.97980	4.26534	9.18940	.128866
7.77	60.3729	2.78747	8.81476	469.097	1.98065	4.26717	9.19335	.128700
7.78	60.5284	2.78927	8.82043	470.911	1.98150	4.26900	9.19729	.128535
7.79	60.6841	2.79106	8.82610	472.729	1.98234	4.27083	9.20123	.128370
7.80	60.8400	2.79285	8.83176	474.552	1.98319	4.27266	9.20516	.128205
7.81	60.9961	2.79464	8.83742	476.380	1.98404	4.27448	9.20910	.128041
7.82	61.1524	2.79643	8.84308	478.212	1.98489	4.27631	9.21302	.127877
7.83	61.3089	2.79821	8.84873	480.049	1.98573	4.27813	9.21695	.127714
7.84	61.4656	2.80000	8.85438	481.890	1.98658	4.27995	9.22087	.127551
7.85	61.6225	2.80179	8.86002	483.737	1.98742	4.28177	9.22479	.127389
7.86	61.7796	2.80357	8.86566	485.588	1.98826	4.28359	9.22871	.127226
7.87	61.9369	2.80535	8.87130	487.443	1.98911	4.28540	9.23262	.127065
7.88	62.0944	2.80713	8.87694	489.304	1.98995	4.28722	9.23653	.126904
7.89	62.2521	2.80891	8.88257	491.169	1.99079	4.28903	9.24043	.126743
7.90	62.4100	2.81069	8.88819	493.039	1.99163	4.29084	9.24434	.126582
7.91	62.5681	2.81247	8.89382	494.914	1.99247	4.29265	9.24823	.126422
7.92	62.7264	2.81425	8.89944	496.793	1.99331	4.29446	9.25213	.126263
7.93	62.8849	2.81603	8.90505	498.677	1.99415	4.29627	9.25602	.126103
7.94	63.0436	2.81780	8.91067	500.566	1.99499	4.29807	9.25991	.125945
7.95	63.2025	2.81957	8.91628	502.460	1.99582	4.29987	9.26380	.125786
7.96	63.3616	2.82185	8.92188	504.358	1.99666	4.30168	9.26768	.125628
7.97	63.5209	2.82312	8.92749	506.262	1.99750	4.30348	9.27156	.125471
7.98	63.6804	2.82489	8.93308	508.170	1.99833	4.30528	9.27544	.125313
7.99	63.8401	2.82666	8.93868	510.082	1.99917	4.30707	9.27931	.125156
8.00	64.0000	2.82843	8.94427	512.000	2.00000	4.30887	9.28318	.125000
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
8.00	64.0000	2.82843	8.94427	512.000	2.00000	4.30887	9.28318	.125000
8.01	64.1601	2.83019	8.94986	513.922	2.00083	4.31066	9.28704	.124844
8.02	64.3204	2.83196	8.95545	515.850	2.00167	4.31246	9.29091	.124688
8.03	64.4809	2.83373	8.96103	517.782	2.00250	4.31425	9.29477	.124533
8.04	64.6416	2.83549	8.96660	519.718	2.00333	4.31604	9.29862	.124378
8.05	64.8025	2.83725	8.97218	521.660	2.00416	4.31783	9.30248	.124224
8.06	64.9636	2.83901	8.97775	523.607	2.00499	4.31961	9.30633	.124069
8.07	65.1249	2.84077	8.98332	525.558	2.00582	4.32140	9.31018	.123916
8.08	65.2864	2.84253	8.98888	527.514	2.00664	4.32318	9.31402	.123762
8.09	65.4481	2.84429	8.99444	529.475	2.00747	4.32497	9.31786	.123609
8.10	65.6100	2.84605	9.00000	531.441	2.00830	4.32675	9.32170	.123457
8.11	65.7721	2.84781	9.00555	533.412	2.00912	4.32853	9.32553	.123305
8.12	65.9344	2.84956	9.01110	535.387	2.00995	4.33031	9.32936	.123153
8.13	66.0969	2.85132	9.01665	537.368	2.01078	4.33208	9.33319	.123001
8.14	66.2596	2.85307	9.02219	539.353	2.01160	4.33386	9.33702	.122850
8.15	66.4225	2.85482	9.02774	541.343	2.01242	4.33563	9.34084	.122699
8.16	66.5856	2.85657	9.03327	543.338	2.01325	4.33741	9.34466	.122549
8.17	66.7489	2.85832	9.03881	545.339	2.01407	4.33918	9.34847	.122399
8.18	66.9124	2.86007	9.04434	547.343	2.01489	4.34095	9.35229	.122249
8.19	67.0761	2.86182	9.04986	549.353	2.01571	4.34271	9.35610	.122100
8.20	67.2400	2.86356	9.05539	551.368	2.01653	4.34448	9.35990	.121951
8.21	67.4041	2.86531	9.06091	553.388	2.01735	4.34625	9.36370	.121803
8.22	67.5684	2.86705	9.06642	555.412	2.01817	4.34801	9.36751	.121655
8.23	67.7329	2.86880	9.07193	557.442	2.01899	4.34977	9.37130	.121507
8.24	67.8976	2.87054	9.07744	559.476	2.01980	4.35153	9.37510	.121359
8.25	68.0625	2.87228	9.08295	561.516	2.02062	4.35329	9.37889	.121212
8.26	68.2276	2.87402	9.08845	563.560	2.02144	4.35505	9.38268	.121065
8.27	68.3929	2.87576	9.09395	565.609	2.02225	4.35681	9.38646	.120919
8.28	68.5584	2.87750	9.09945	567.664	2.02307	4.35856	9.39024	.120773
8.29	68.7241	2.87924	9.10494	569.723	2.02388	4.36032	9.39402	.120627
8.30	68.8900	2.88097	9.11043	571.787	2.02469	4.36207	9.39780	.120482
8.31	69.0561	2.88271	9.11592	573.856	2.02551	4.36382	9.40157	.120337
8.32	69.2224	2.88444	9.12140	575.930	2.02632	4.36557	9.40534	.120192
8.33	69.3889	2.88617	9.12688	578.010	2.02713	4.36732	9.40911	.120048
8.34	69.5556	2.88791	9.13236	580.094	2.02794	4.36907	9.41287	.119904
8.35	69.7225	2.88964	9.13783	582.183	2.02875	4.37081	9.41663	.119760
8.36	69.8896	2.89137	9.14330	584.277	2.02956	4.37256	9.42039	.119617
8.37	70.0569	2.89310	9.14877	586.376	2.03037	4.37430	9.42414	.119474
8.38	70.2244	2.89482	9.15423	588.480	2.03118	4.37604	9.42789	.119332
8.39	70.3921	2.89655	9.15969	590.590	2.03199	4.37778	9.43164	.119190
8.40	70.5600	2.89828	9.16515	592.704	2.03279	4.37952	9.43539	.119048
8.41	70.7281	2.90000	9.17061	594.823	2.03360	4.38126	9.43913	.118906
8.42	70.8964	2.90172	9.17606	596.948	2.03440	4.38299	9.44287	.118765
8.43	71.0649	2.90345	9.18150	599.077	2.03521	4.38473	9.44661	.118624
8.44	71.2336	2.90517	9.18695	601.212	2.03601	4.38646	9.45034	.118483
8.45	71.4025	2.90689	9.19239	603.351	2.03682	4.38819	9.45407	.118343
8.46	71.5716	2.90861	9.19783	605.496	2.03762	4.38992	9.45780	.118203
8.47	71.7409	2.91033	9.20326	607.645	2.03842	4.39165	9.46152	.118064
8.48	71.9104	2.91204	9.20869	609.800	2.03923	4.39338	9.46525	.117925
8.49	72.0801	2.91376	9.21412	611.960	2.04003	4.39510	9.46897	.117786
8.50	72.2500	2.91548	9.21954	614.125	2.04083	4.39683	9.47268	.117647
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
8.50	72.2500	2.91548	9.21954	614.125	2.04083	4.39683	9.47268	.117647
8.51	72.4201	2.91719	9.22497	616.295	2.04163	4.39855	9.47640	.117509
8.52	72.5904	2.91890	9.23038	618.470	2.04243	4.40028	9.48011	.117371
8.53	72.7609	2.92062	9.23580	620.650	2.04323	4.40200	9.48381	.117233
8.54	72.9316	2.92233	9.24121	622.836	2.04402	4.40372	9.48752	.117096
8.55	73.1025	2.92404	9.24662	625.026	2.04482	4.40543	9.49122	.116959
8.56	73.2736	2.92575	9.25203	627.222	2.04562	4.40715	9.49492	.116822
8.57	73.4449	2.92746	9.25743	629.423	2.04641	4.40887	9.49861	.116686
8.58	73.6164	2.92916	9.26283	631.629	2.04721	4.41058	9.50231	.116550
8.59	73.7881	2.93087	9.26823	633.840	2.04801	4.41229	9.50600	.116414
8.60	73.9600	2.93258	9.27362	636.056	2.04880	4.41400	9.50969	.116279
8.61	74.1321	2.93428	9.27901	638.277	2.04959	4.41571	9.51337	.116144
8.62	74.3044	2.93598	9.28440	640.504	2.05039	4.41742	9.51705	.116009
8.63	74.4769	2.93769	9.28978	642.736	2.05118	4.41913	9.52073	.115875
8.64	74.6496	2.93939	9.29516	644.973	2.05197	4.42084	9.52441	.115741
8.65	74.8225	2.94109	9.30054	647.215	2.05276	4.42254	9.52808	.115607
8.66	74.9956	2.94279	9.30591	649.462	2.05355	4.42425	9.53175	.115473
8.67	75.1689	2.94449	9.31128	651.714	2.05434	4.42595	9.53542	.115340
8.68	75.3424	2.94618	9.31665	653.972	2.05513	4.42765	9.53908	.115207
8.69	75.5161	2.94788	9.32202	656.235	2.05592	4.42935	9.54274	.115075
8.70	75.6900	2.94958	9.32738	658.503	2.05671	4.43105	9.54640	.114943
8.71	75.8641	2.95127	9.33274	660.776	2.05750	4.43274	9.55006	.114811
8.72	76.0384	2.95296	9.33809	663.055	2.05828	4.43444	9.55371	.114679
8.73	76.2129	2.95466	9.34345	665.339	2.05907	4.43613	9.55736	.114548
8.74	76.3876	2.95635	9.34880	667.628	2.05986	4.43783	9.56101	.114416
8.75	76.5625	2.95804	9.35414	669.922	2.06064	4.43952	9.56466	.114286
8.76	76.7376	2.95973	9.35949	672.221	2.06143	4.44121	9.56830	.114155
8.77	76.9129	2.96142	9.36483	674.526	2.06221	4.44290	9.57194	.114025
8.78	77.0884	2.96311	9.37017	676.836	2.06299	4.44459	9.57557	.113895
8.79	77.2641	2.96479	9.37550	679.151	2.06378	4.44627	9.57921	.113766
8.80	77.4400	2.96648	9.38083	681.472	2.06456	4.44796	9.58284	.113636
8.81	77.6161	2.96816	9.38616	683.798	2.06534	4.44964	9.58647	.113507
8.82	77.7924	2.96985	9.39149	686.129	2.06612	4.45133	9.59009	.113379
8.83	77.9689	2.97153	9.39681	688.465	2.06690	4.45301	9.59372	.113250
8.84	78.1456	2.97321	9.40213	690.807	2.06768	4.45469	9.59734	.113122
8.85	78.3225	2.97489	9.40744	693.154	2.06846	4.45637	9.60095	.112994
8.86	78.4996	2.97658	9.41276	695.506	2.06924	4.45805	9.60457	.112867
8.87	78.6769	2.97825	9.41807	697.864	2.07002	4.45972	9.60818	.112740
8.88	78.8544	2.97993	9.42338	700.227	2.07080	4.46140	9.61179	.112613
8.89	79.0321	2.98161	9.42868	702.595	2.07157	4.46307	9.61540	.112486
8.90	79.2100	2.98329	9.43398	704.969	2.07235	4.46475	9.61900	.112360
8.91	79.3881	2.98496	9.43928	707.348	2.07313	4.46642	9.62260	.112233
8.92	79.5664	2.98664	9.44458	709.732	2.07390	4.46809	9.62620	.112108
8.93	79.7449	2.98831	9.44987	712.122	2.07468	4.46976	9.62980	.111982
8.94	79.9236	2.98998	9.45516	714.517	2.07545	4.47142	9.63339	.111857
8.95	80.1025	2.99166	9.46044	716.917	2.07622	4.47309	9.63698	.111732
8.96	80.2816	2.99333	9.46573	719.323	2.07700	4.47476	9.64057	.111607
8.97	80.4609	2.99500	9.47101	721.734	2.07777	4.47642	9.64415	.111483
8.98	80.6404	2.99666	9.47629	724.151	2.07854	4.47808	9.64774	.111359
8.99	80.8201	2.99833	9.48156	726.573	2.07931	4.47974	9.65132	.111235
9.00	81.0000	3.00000	9.48683	729.000	2.08008	4.48140	9.65489	.111111
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
9.00	81.0000	3.00000	9.48683	729.000	2.08008	4.48140	9.65489	.111111
9.01	81.1801	3.00167	9.49210	731.433	2.08085	4.48306	9.65847	.110988
9.02	81.3604	3.00333	9.49737	733.871	2.08162	4.48472	9.66204	.110865
9.03	81.5409	3.00500	9.50263	736.314	2.08239	4.48638	9.66561	.110742
9.04	81.7216	3.00666	9.50789	738.763	2.08316	4.48803	9.66918	.110619
9.05	81.9025	3.00832	9.51315	741.218	2.08393	4.48969	9.67274	.110497
9.06	82.0836	3.00998	9.51840	743.677	2.08470	4.49134	9.67630	.110375
9.07	82.2649	3.01164	9.52365	746.143	2.08546	4.49299	9.67986	.110254
9.08	82.4464	3.01330	9.52890	748.613	2.08623	4.49464	9.68342	.110132
9.09	82.6281	3.01496	9.53415	751.089	2.08699	4.49629	9.68697	.110011
9.10	82.8100	3.01662	9.53939	753.571	2.08776	4.49794	9.69052	.109890
9.11	82.9921	3.01828	9.54463	756.058	2.08852	4.49959	9.69407	.109769
9.12	83.1744	3.01993	9.54987	758.551	2.08929	4.50123	9.69762	.109649
9.13	83.3569	3.02159	9.55510	761.048	2.09005	4.50288	9.70116	.109529
9.14	83.5396	3.02324	9.56033	763.552	2.09081	4.50452	9.70470	.109409
9.15	83.7225	3.02490	9.56556	766.061	2.09158	4.50616	9.70824	.109290
9.16	83.9056	3.02655	9.57079	768.575	2.09234	4.50781	9.71177	.109170
9.17	84.0889	3.02820	9.57601	771.095	2.09310	4.50945	9.71531	.109051
9.18	84.2724	3.02985	9.58123	773.621	2.09386	4.51108	9.71884	.108932
9.19	84.4561	3.03150	9.58645	776.152	2.09462	4.51272	9.72236	.108814
9.20	84.6400	3.03315	9.59166	778.688	2.09538	4.51436	9.72589	.108696
9.21	84.8241	3.03480	9.59687	781.230	2.09614	4.51599	9.72941	.108578
9.22	85.0084	3.03645	9.60208	783.777	2.09690	4.51763	9.73293	.108460
9.23	85.1929	3.03809	9.60729	786.330	2.09765	4.51926	9.73645	.108342
9.24	85.3776	3.03974	9.61249	788.889	2.09841	4.52089	9.73996	.108225
9.25	85.5625	3.04138	9.61769	791.453	2.09917	4.52252	9.74348	.108108
9.26	85.7476	3.04302	9.62289	794.023	2.09992	4.52415	9.74699	.107991
9.27	85.9329	3.04467	9.62808	796.598	2.10068	4.52578	9.75049	.107875
9.28	86.1184	3.04631	9.63328	799.179	2.10144	4.52740	9.75400	.107759
9.29	86.3041	3.04795	9.63846	801.765	2.10219	4.52903	9.75750	.107643
9.30	86.4900	3.04959	9.64365	804.357	2.10294	4.53065	9.76100	.107527
9.31	86.6761	3.05123	9.64883	806.954	2.10370	4.53228	9.76450	.107411
9.32	86.8624	3.05287	9.65401	809.558	2.10445	4.53390	9.76799	.107296
9.33	87.0489	3.05450	9.65919	812.166	2.10520	4.53552	9.77148	.107181
9.34	87.2356	3.05614	9.66437	814.781	2.10595	4.53714	9.77497	.107066
9.35	87.4225	3.05778	9.66954	817.400	2.10671	4.53876	9.77846	.106952
9.36	87.6096	3.05941	9.67471	820.026	2.10746	4.54038	9.78195	.106838
9.37	87.7969	3.06105	9.67988	822.657	2.10821	4.54199	9.78543	.106724
9.38	87.9844	3.06268	9.68504	825.294	2.10896	4.54361	9.78891	.106610
9.39	88.1721	3.06431	9.69020	827.936	2.10971	4.54522	9.79239	.106496
9.40	88.3600	3.06594	9.69536	830.584	2.11045	4.54684	9.79586	.106383
9.41	88.5481	3.06757	9.70052	833.238	2.11120	4.54845	9.79933	.106270
9.42	88.7364	3.06920	9.70567	835.897	2.11195	4.55006	9.80280	.106157
9.43	88.9249	3.07083	9.71082	838.562	2.11270	4.55167	9.80627	.106045
9.44	89.1136	3.07246	9.71597	841.232	2.11344	4.55328	9.80974	.105932
9.45	89.3025	3.07409	9.72111	843.909	2.11419	4.55488	9.81320	.105820
9.46	89.4916	3.07571	9.72625	846.591	2.11494	4.55649	9.81666	.105708
9.47	89.6809	3.07734	9.73139	849.278	2.11568	4.55809	9.82012	.105597
9.48	89.8704	3.07896	9.73653	851.971	2.11642	4.55970	9.82357	.105485
9.49	90.0601	3.08058	9.74166	854.670	2.11717	4.56130	9.82703	.105374
9.50	90.2500	3.08221	9.74679	857.375	2.11791	4.56290	9.83048	.105263
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$
9.50	90.2500	3.08221	9.74679	857.375	2.11791	4.56290	9.83048	.105263
9.51	90.4401	3.08383	9.75192	860.085	2.11865	4.56450	9.83392	.105152
9.52	90.6304	3.08545	9.75705	862.801	2.11940	4.56610	9.83737	.105042
9.53	90.8209	3.08707	9.76217	865.523	2.12014	4.56770	9.84081	.104932
9.54	91.0116	3.08869	9.76729	868.251	2.12088	4.56930	9.84425	.104822
9.55	91.2025	3.09031	9.77241	870.984	2.12162	4.57089	9.84769	.104712
9.56	91.3936	3.09192	9.77753	873.723	2.12236	4.57249	9.85113	104603
9.57	91.5849	3.09354	9.78264	876.467	2.12310	4.57408	9.85456	.104493
9.58	91.7764	3.09516	9.78775	879.218	2.12384	4.57567	9.85799	.104384
9.59	91.9681	3.09677	9.79285	881.974	2.12458	4.57727	9.86142	.104275
9.60	92.1600	3.09839	9.79796	884.736	2.12532	4.57886	9.86485	.104167
9.61	92.3521	3.10000	9.80306	887.504	2.12605	4.58045	9.86827	.104058
9.62	92.5444	3.10161	9.80816	890.277	2.12679	4.58204	9.87169	103950
9.63	92.7369	3.10322	9.81326	893.056	2.12753	4.58362	9.87511	103842
9.64	92.9296	3.10483	9.81835	895.841	2.12826	4.58521	9.87853	.103734
9.65	93.1225	3.10644	9.82344	898.632	2.12900	4.58679	9.88195	.103627
9.66	93.3156	3.10805	9.82853	901.429	2.12974	4.58838	9.88536	.103520
9.67	93.5089	3.10966	9.83362	904.231	2.13047	4.58996	9.88877	.103413
9.68	93.7024	3.11127	9.83870	907.039	2.13120	4.59154	9.89217	.103306
9.69	93.8961	3.11288	9.84378	909.853	2.13194	4.59312	9.89558	.103199
9.70	94.0900	3.11448	9.84886	912.673	2.13267	4.59470	9.89898	.103093
9.71	94.2841	3.11609	9.85393	915.499	2.13340	4.59628	9.90238	.102987
9.72	94.4784	3.11769	9.85901	918.330	2.13414	4.59786	9.90578	.102881
9.73	94.6729	3.11929	9.86408	921.167	2.13487	4.59943	9.90918	.102775
9.74	94.8676	3.12090	9.86914	924.010	2.13560	4.60101	9.91257	.102669
9.75	95.0625	3.12250	9.87421	926.859	2.13633	4.60258	9.91596	.102564
9.76	95.2576	3.12410	9.87927	929.714	2.13706	4.60416	9.91935	.102459
9.77	95.4529	3.12570	9.88433	932.575	2.13779	4.60573	9.92274	.102354
9.78	95.6484	3.12730	9.88939	935.441	2.13852	4.60730	9.92612	.102249
9.79	95.8441	3.12890	9.89444	938.314	2.13925	4.60887	9.92950	.102145
9.80	96.0400	3.13050	9.89949	941.192	2.13997	4.61044	9.93288	.102041
9.81	96.2361	3.13209	9.90454	944.076	2.14070	4.61200	9.93626	.101937
9.82	96.4324	3.13369	9.90959	946.966	2.14143	4.61357	9.93964	.101833
9.83	96.6289	3.13528	9.91464	949.862	2.14216	4.61514	9.94301	.101729
9.84	96.8256	3.13688	9.91968	952.764	2.14288	4.61670	9.94638	.101626
9.85	97.0225	3.13847	9.92472	955.672	2.14361	4.61826	9.94975	.101523
9.86	97.2196	3.14006	9.92975	958.585	2.14433	4.61983	9.95311	.101420
9.87	97.4169	3.14166	9.93479	961.505	2.14506	4.62139	9.95648	.101317
9.88	97.6144	3.14325	9.93982	964.430	2.14578	4.62295	9.95984	.101215
9.89	97.8121	3.14484	9.94485	967.362	2.14651	4.62451	9.96320	.101112
9.90	98.0100	3.14643	9.94987	970.299	2.14723	4.62607	9.96655	.101010
9.91	98.2081	3.14802	9.95490	973.242	2.14795	4.62762	9.96991	.100908
9.92	98.4064	3.14960	9.95992	976.191	2.14867	4.62918	9.97326	.100806
9.93	98.6049	3.15119	9.96494	979.147	2.14940	4.63073	9.97661	.100705
9.94	98.8036	3.15278	9.96995	982.108	2.15012	4.63229	9.97996	.100604
9.95	99.0025	3.15436	9.97497	985.075	2.15084	4.63384	9.98331	.100503
9.96	99.2016	3.15595	9.97998	988.048	2.15156	4.63539	9.98665	.100402
9.97	99.4009	3.15753	9.98499	991.027	2.15228	4.63694	9.98999	.100301
9.98	99.6004	3.15911	9.98999	994.012	2.15300	4.63849	9.99333	.100200
9.99	99.8001	3.16070	9.99500	997.003	2.15372	4.64004	9.99667	.100100
10.00	100.000	3.16228	10.0000	1000.00	2.15443	4.64159	10.0000	.100000
n	n^2	$\sqrt{n}$	$\sqrt{10n}$	n^3	$\sqrt[3]{n}$	$\sqrt[3]{10n}$	$\sqrt[3]{100n}$	$1/n$

九　因數及質數對數表

N	1	3	7	9
10	0043213738	0128372247	0293837777	0374264979
11	3·37	0530784435	3^2·13	7·17
12	11^2	3·41	1038037210	3·43
13	1172712957	7·19	1367205672	1430148003
14	3·47	11 13	$3·7^2$	1731862684
15	1789769473	3^2·17	1958906524	3·53
16	7·23	2121876044	2227164711	13^2
17	3^2·19	2380461031	3·59	2528530310
18	2576785749	3·61	11·17	$3^3·7$
19	2810333672	2855573090	2944662262	2988530764
20	3·67	7·29	3^2·23	11·19
21	3242824553	3·71	7·31	3·73
22	13·17	3483048630	3560258572	3598354823
23	3·7·11	3673559210	3·79	3783979009
24	3820170426	3^5	13·19	3·83
25	3996737215	11·23	4099331233	7 37
26	3^2·29	4199557485	3·89	4297522800
27	4329692909	3·7·13	4424797691	3^2·31
28	4487063199	4517864355	7·41	17^2
29	3·97	4668676204	3^3·11	13·23
30	7·43	3·101	4871383755	3·103
31	4927603890	4955443375	5010592622	11·29
32	3·107	17·19	3·109	7·47
33	5198279938	3^2·37	5276299009	3·113·
34	11·31	7^3	5403294748	5428254270
35	3^3·13	5477747054	3·7·17	5550944486
36	19^2	$3·11^2$	5646660643	3^2·41
37	7·53	5717088318	13·29	5786392100
38	3·127	5831987740	3^2·43	5899496013
39	17·23	3·131	5987905068	3·7·19
40	6031443726	13·31	11·37	6117233080
41	3·137	7·59	3·139	6222140230
42	6242820958	3^2·47	7·61	3·11·13
43	6344772702	6364878964	19·23	6424645202
44	$3^2·7^2$	6464037262	3·149	6522463410
45	11·41	3·151	6599162001	3^3·17
46	6637009254	6655809910	6693168806	7·67
47	3·157	11·43	3^2·53	6803355134
48	13·37	3·7·23	6875289612	3·163
49	6910814921	17·29	7·71	6981005456
50	3·167	7015679851	$3·13^2$	7067177823
51	7·73	3^3·19	11·47	3·173
52	7168377233	7185016889	17·31	23^2
53	3^2·59	13·41	3·179	7^2·11
54	7331972651	3·181	7379873263	3^2·61
55	19·29	7·79	7458551952	13·43
56	3·11·17	7505083949	3^4·7	7551122664
57	7566361082	3·191	7611758132	3·193
58	7·83	11·53	7686381012	19·31
59	3·197	7730546934	3·199	7774268224
60	7788744720	3^2·67	7831886911	3·7·29
61	13·47	7874604745	7902851640	7916906490
62	3^3·23	7·89	3·11·19	17·37
63	8000293592	3·211	7^2·13	3^2·71
64	8068580295	8082109729	8109042807	11·59
65	3·7·31	8149131813	3^2·73	8188854146
66	8202014595	3·13·17	23·29	3·223
67	11·61	8280150642	8305886687	7·97
68	3·227	8344207037	3·229	13·53
69	8394780474	$3^2·7·11$	17·41	3·233

N	Log N
2	301029995664
3	477121254720
5	698970004336
7	845098040014
11	041392685158
13	113943352307
17	230448921378
19	278753600953
23	361727836018
29	462396997899
31	491361693834
37	568201724067
41	612783856720
43	633468455580
47	672097857936
53	724275869601
59	770852011642
61	785329835011
67	826074802701
71	851258348719
73	863322860120
79	897627091290
83	919078092376
89	949390006645
97	986771734266
1301	1142772966
1303	1149444157
1307	1162755876
1319	1202447955
1321	1209028176
1327	1228709229
1361	1338581252
1367	1357685146
1373	1376705372
1381	1401936786
1399	1458177145
1409	1489109931
1423	1532049001
1427	1544239731
1429	1550322288
1433	1562461904
1439	1580607939
1447	1604685311
1451	1616674124
1453	1622656143
1459	1640552919
1471	1676126727
1481	1705550585
1483	1711411510
1487	1723109685
1489	1728946978
1493	1740598077
1499	1758016328
1511	1792644643
1523	1826999033
1531	1849751907
1543	1883659261
1549	1900514178
1553	1911714557
1559	1923461152

若N爲質數，則列其對數，若N非質數，則列其因數

N	1	3	7	9
70	8457180180	19·37	7·101	8506462352
71	3^2·79	23·31	3·239	8567288904
72	7·103	3·241	8615344109	3^6
73	17·43	8651039746	11·67	8686444384
74	3·13·19	8709888138	3^2·83	7·107
75	8756399370	3·251	8790958795	3·11·23
76	8813846568	7·109	13·59	8859263398
77	3·257	8881794939	3·7·37	19·41
78	11·71	3^3·29	8959747324	3·263
79	7·113	13·61	9014583214	17·47
80	3^2·89	11·73	3·269	9079485216
81	9090208542	3·271	19·43	3^2·7·13
82	9143431571	9153998352	9175055096	9185545306
83	3·277	7^2·17	3^3·31	9237619608
84	29^2	3·281	7·11^2	3·283
85	23·37	9309490312	9329808219	9339931638
86	3·7·41	9360107957	3·17^2	11·79
87	13·67	3^2·97	9429995934	3·293
88	9449759084	9459607036	9479236198	7·127
89	3^4·11	19·47	3·13·23	29·31
90	17·53	3·7·43	9576072871	3^2·101
91	9595183770	11·83	7·131	9633155114
92	3·307	13·71	3^2·103	9680157140
93	7^2·19	3·311	9717395909	3·313
94	9735896234	23·41	9763499790	13·73
95	3·317	9790929006	3·11·29	7·137
96	31^2	3^2·107	9854264741	3·17·19
97	9872192299	7·139	9898945637	11·89
98	3^2·109	9925535178	3·7·47	23·43
99	9960736545	3·331	9986951583	3^3·37
100	7·11·13	17·59	19·53	0038911662
101	3·337	0056094454	3^2·113	0081741840
102	0090257421	3·11·31	13·79	3·7^3
103	0132586653	0141003215	17·61	0166155476
104	3·347	7·149	3·349	0207754882
105	0216027160	3^4·13	7·151	3·353
106	0257153839	0265332645	11·97	0289777052
107	3^2·7·17	29·37	3·359	13·83
108	23·47	3·19^2	0362295441	3^2·11^2
109	0378247506	0386201619	0402066276	7·157
110	3·367	0425755124	3^3·41	0449315461
111	11·101	3·7·53	0480531731	3·373
112	19·59	0503797563	7^2·23	0526939419
113	3·13·29	11·103	3·379	17·67
114	7·163	3^2·127	31·37	3·383
115	0610753236	0618293073	13·89	19·61
116	3^3·43	0655797147	3·389	7·167
117	0685568951	3·17·23	11·107	3^2·131
118	0722498976	7·13^2	0744507190	29·41
119	3·397	0766404437	3^2·7·19	11·109
120	0795430074	3·401	17·71	3·13·31
121	7·173	0838608009	0852905782	23·53
122	3·11·37	0874264570	3·409	0895518829
123	0902580529	3^2·137	0923696996	3·7·59
124	17·73	11·113	29·43	0965624384
125	3^2·139	7·179	3·419	1000257301
126	13·97	3·421	7·181	3^3·47
127	31·41	19·67	1061908973	1068705445
128	3·7·61	1082266564	3^2·11·13	1102529174
129	1109262423	3·431	1129399761	3·433

N	Log N
1567	1950689965
1571	1961761850
1579	1983821300
1583	1994809149
1597	2033049161
1601	2043913319
1607	2060158768
1609	2065560441
1613	2076343674
1619	2092468488
1621	2097830148
1627	2113875529
1637	2140486794
1657	2193225084
1663	2208922492
1667	2219355998
1669	2224563367
1693	2286569581
1697	2296818423
1699	2301933789
1709	2327420627
1721	2357808703
1723	2362852774
1733	2387985627
1741	2407987711
1747	2422929050
1753	2437819161
1759	2452658395
1777	2496874278
1783	2511513432
1787	2521245525
1789	2526103406
1801	2555137128
1811	2579184503
1823	2607866687
1831	2626883443
1847	2664668954
1861	2697463731
1867	2711443179
1871	2720737875
1873	2725377774
1877	2734642726
1879	2739267801
1889	2762319579
1901	2789821169
1907	2803506930
1913	2817149700
1931	2857822738
1933	2862318540
1949	2898118391
1951	2902572694
1973	2961270353
1979	2964457942
1987	2981978671
1993	2995072987
1997	3003780649
1999	3008127941
2003	3016809493
2011	3034120706
2017	3047058982

若N爲質數，則列其對數，若N非質數，則列其因數

對數表使用法

緒　論

1. 假定認某數爲10之某乘冪,則此乘冪之指數,曰某數之'常用對數' (Common Logarithm), 例如

$$10^a = A, \qquad 10^b = B;$$

則

$$\log A = a, \qquad \log B = b.$$

2. 積之對數,等於其各因數之對數之和.

因

$$A \times B = 10^a \times 10^b = 10^{a+b},$$

故

$$\log (A \times B) = a + b = \log A + \log B.$$

3. 商之對數,等於被除數之對數減除數之對數.

因

$$\frac{A}{B} = \frac{10^a}{10^b} = 10^{a-b},$$

故

$$\log\frac{A}{B} = a - b = \log A - \log B.$$

4. 某數乘冪之對數,等於乘冪之指數乘某數之對數.

因

$$A^n = (10^a)^n = 10^{an},$$

故

$$\log A^n = an = n \log A.$$

5. 某數某次根之對數,等於根之指數除某數之對數.

因　$\sqrt[n]{A} = \sqrt[n]{10^a} = 10^{\frac{a}{n}}$，故　$\log\sqrt[n]{A} = \frac{a}{n} = \frac{\log A}{n}$.

6. 凡 1, 10, 100, …… 及 0.1, 0.01, 0.001, …… 等之對數，皆爲整數.

因　$10^0 = 1$,　故　$\log 1 = 0$;
$10^1 = 10$,　$\log 10 = 1$;
$10^2 = 100$,　$\log 100 = 2$;
$10^3 = 1000$,　$\log 1000 = 3$.

因　$10^{-1} = 0.1$,　故　$\log 0.1 = -1$;
$10^{-2} = 0.01$,　$\log 0.01 = -2$;
$10^{-3} = 0.001$,　$\log 0.001 = -3$.

餘類推.

故在　1 與　10 間之數，其對數在 0 與 1 之間;
10 與　100 間之數，其對數在 1 與 2 之間;
100 與 1000 間之數，其對數在 2 與 3 之間;
1 與　0.1 間之數，其對數在 0 與 −1 之間;
0.1 與 0.01 間之數，其對數在 −1 與 −2 之間;
0.01 與 0.001 間之數，其對數在 −2 與 −3 之間.

7. 由上節，可知凡小於 1 之數，其對數必爲負數；但通常小數部分不用負數，必須設法變爲正數，其例如下:

因　$0.48 = 4.8 \times 0.1$,

故由第 2 節　$\log 0.48 = \log 4.8 + \log 0.1$
$= 0.68124 - 1$，或 $\bar{1}.68124$.

又如 $$0.0007 = 7 \times 0.0001,$$

故 $$\log 0.0007 = \log 7 + \log 0.0001$$
$$= 0.84510 - 4, \text{或} \bar{4}.84510.$$

8. 故凡一對數必含二部：(*1*)一正整數或負整數，謂之'定位部分' (Characteristic)，(*2*)一正小數，謂之'定值部分' (Mantissa). 如有對數 3.52179, 0.78254−2, 其整數 3 及 −2 曰定位部分；其小數 0.52179 及 0.78254 曰定值部分.

9. 凡負對數恆書作二數之差，其減數必須爲 10 或 10 之倍數. 如 0.78254−2 之被減數及減數各加以 8，則變爲 8.78254−10 矣. 又如 0.92737−13 之被減數及減數各加以 7，則變爲 7.92737−20 矣.

10. 由第 6 節可知凡大於 1 之數，其對數之定位部分，適爲本數之整數位少 1 之數. 如 log 7849.27 之定位部分爲 3 是也. 凡小於 1 之數，其對數之定位部分，爲本數中小數點下 0 位多 1 之數，如 log 0.037 之定位部分爲 −2 是也.

11. 凡互相爲 10 之倍數之諸數，其對數之定值部分相同. 如 $\log 4.6021 = 0.66296.$

$$\log 460.21 = \log (4.6021 \times 10^2)$$
$$= \log 4.6021 + \log 10^2$$
$$= 0.66296 + 2 = 2.66296.$$
$$\log 0.046021 = \log (4.6021 \div 10^2) = \log 4.6021 - \log 10^2$$
$$= 0.66296 - 2 = 8.66296 - 10.$$

第 一 表

12. 此表中定值部分,小數列至五位,如原小數第六位爲5或大於5,則於第五位加1;如原小數第五位起小於5而大於$4\frac{1}{2}$,則第五位爲$\bar{5}$;如七位小數爲5328732,則五位小數爲53287;若5328751,則爲53288;若5328461或5328499,則爲53285;又若5324981,則爲53250.

13. 五位小數之前二位,往往可以公用,故僅列於每頁第二直行中.凡無前二位者,即取其上所列者加入之.如第3頁142之定值部分爲0.15229,則143之定值部分爲0.15534.但如同頁第四直行第八數019,其左上角附有 * 記號者,則其前二位數應取此數之下所列者,故全數應爲0.03019非0.02019.

14. 由此表檢得之對數,除第2頁外,應列之定位部分,須依第10節加入之.

15. 僅含三個數字之數,可自第3頁起於N直行下檢得之,其右行相鄰之數,即爲其對數之定值部分.如

第3頁 $\log 134 = 2.12710$, $\log 13400 = 4.12710$.

第15頁 $\log 716 = 2.85491$, $\log 0.716 = 9.85491 - 10$.

16. 含四個數字之數,可於N直行中檢得其前三個數字,又於每頁之頂橫列1,2,3,……之處,檢得其第四個數字,其橫直兩行相交之處,即爲所求對數之定值部分.如

第16頁 log 7682 = 3.88547, log 76.85 = 1.88564.

第19頁 log 93280 = 4.96979, log 0.9408 = 9.97626−10.

17. 欲檢含五個或五個以上數字之數之對數，則須應用表中PP直行下之比例分.

PP直行中之單數，乃相鄰兩定值部分之差數也.如第16頁，89176與89182之差數爲6，故此頁之PP直行中卽有單數6.又6之10分之1爲0.6，10分之2爲1.2，故於6字下另列一表；左邊自1至9各乘6卽爲右邊之比例分.

【例1】 求 log 34237.

由第11節，可知log 34237之定值部分與log 3423.7之定值部分同.故若加3423與3424之兩定值部分之差之10分之7於3423之定值部分，卽爲所求之定值部分.

今檢第7頁， log 3424之定值部分爲53453

log 3423之定值部分爲53441

其差爲 12

於PP行中檢得12之0.7比例分爲8.4.

故 log 3423.7之定值部分爲53441 + 8.4 = 53449.

故 log 34237 = 4.53449.

【例2】 求 log 0.0015764.

檢第4頁， 1577之定值部分爲19783.

1576之定值部分爲19756. 其差爲27.

又於PP行中檢得27之0.4比例分爲10.8.

故所求之定值部分爲 19755 + 10.8 = 19767.

故 $\log 0.0015764 = 7.19767 - 10.$

【例 3】 求 $\log 32.6708$.

檢第 7 頁， 3268 之定值部分爲 51428.

3267 之定值部分爲 51415. 其差爲 13.

又於 PP 行中檢得 13 之 0.08 比例分爲 1.04 (因表中 13 之 0.8 比例分爲 10.4).

故所求之定值部分爲 51415 + 1.04 = 51416.

故 $\log 32.6708 = 1.51416.$

18. '反對數' (Antilogarithm).

【例 1】 $\log x = 0.92002$, 求 x.

檢第 17 頁， 8318 之定值部分爲 92002.

今定位部分爲 0, 故 $x = 8.318$.

【例 2】 $\log x = 7.50325 - 10$, 求 x.

檢第 7 頁， 3186 之定值部分爲 50325.

今定位部分爲 7 − 10 卽 − 3, 故 $x = 0.003186$.

【例 3】 $\log x = 1.48762$, 求 x.

檢第 7 頁定值部分, 48762 在 48756 與 48770 之間,而 3073 之定值部分爲 48756, 故知 x 之前四個數字爲 3073.

今 48770 − 48756 = 14, 48762 − 48756 = 6. 又檢 PP 直行中 14 下與 6 最近之比例分爲 5.6, 而 5.6 爲 14 之 0.4 比例分, 故知 x 之第五個數字爲 4. 故 $x = 30.734$.

【例 4】 $\log x = 7.82326 - 10$, 求 x.

檢第14頁定值部分, 82326 在 82321 與 82328 之間, 而 6656 之定值部分爲 82321, 故知 x 之前四個數字爲 6656.

今 8.328 − 82321 = 7, 82326 − 82321 = 5. 又檢 PP 直行中 7 下與 5 最近之比例分爲 4.9, 而 4.9 爲 7 之 0.7 比例分, 故知 x 之第五個數字爲 7, 故 $x = 0.0066567$.

19. 某數之倒數之對數, 曰某數之'餘對數' (Cologarithm). 設 A 爲任何數, 則

$$\operatorname{colog} A = \log \frac{1}{A} = \log 1 - \log A = 0 - \log A = -\log A.$$

故某數之餘對數, 卽等於某數之對數冠以負號; 此負號概括定位定值二部分, 但定值部分必須改爲正號, 其法如下:

今因 $\operatorname{colog} A = (10 - \log A) - 10$, 故求某數之餘對數, 可由 10 減去某數之對數而附 − 10 於其後, 則定值部分卽爲正數矣. 若原對數之定位部分大於 10, 可由 $(20 - \log A) - 20$ 得之. 餘類推.

由 10 減某數, 亦有簡法, 可自左至右記各數字, 使與減數之各數字合成爲 9, 最末一數字合成爲 10, 卽得.

【例 1】 求 4007 之餘對數.

$$\begin{array}{rrr} & 10 & -10 \\ \text{檢第 9 頁,} & \log 4007 = 3.60282 & \\ & \operatorname{colog} 4007 = 6.39718 & -10 \end{array}$$

【例 2】 求 103992000000 之餘對數.

$$20 \qquad -20$$

檢第 3 頁, $\log 103992000000 = 11.01700$

$$\operatorname{colog} 103992000000 = 8.98300 - 20$$

【例 3】 求 0.004007 之餘對數.

$$10 \qquad -10$$

檢第 9 頁, $\log 0.004007 = 7.60282 - 10$

$$\operatorname{colog} 0.004007 = 2.39718$$

【例 4】 $x = \sqrt[3]{\left(\dfrac{7.56 \times 4667 \times 567}{899.1 \times 0.00337 \times 23435}\right)^2}$, 求 x.

檢第 16 頁, $\log 7.56 = 0.87852$

檢第 10 頁, $\log 4667 = 3.66904$

檢第 12 頁, $\log 567 = 2.75358$

檢第 18 頁, $\operatorname{colog} 899.1 = 7.04619 - 10$

檢第 7 頁, $\operatorname{colog} 0.00337 = 2.47237$

檢第 5 頁, $\operatorname{colog} 23435 = 5.63013 - 10$

$$2.44983$$

依第 4 節, $\times 2$

依第 5 節, $3) \overline{4.89966}$

檢第 9 頁, $\log x = 1.63322 = \log 42.975$

$$\therefore x = 42.975.$$

第二表

20. 此表列三角函數之對數.第21頁以每秒計.凡在 $0'-3'$ 之角,由上而下檢之,左邊(″)行卽爲秒數.自 $89°57'-90°$,則由下而上檢之,秒數列於右邊(″)行.第22頁至第27頁,以每10秒計.由上而下爲 $3'-2'$,(′),(″)列於左邊.由下而上,爲 $88°-89°57'$,(′),(″)列於右邊.第28頁至第70頁以每分計,由上而下,爲 $2°-45°$,(′)在左邊.由下而上,爲 $45°-88°$,(′)在右邊.其 cd 及 d 行爲相鄰兩定值部分之差數.其 PP 行爲計分之小數之比例分.第21頁至第27頁檢得之對數,因定位部分係負數,應各附記 -10 於其後.自第28頁至第70頁之對數,除在第三直行外,其在第一,,四直行者應各附記 -10 於其後.

【例1】

第47頁　$\log \sin 21°37' = 9.56631 - 10.$

第70頁　$\log \tan 45°59' = 10\ 01491 - 10 = 0.01491.$

【例2】

第67頁　$\log \cos x = 9.87468 - 10,\quad x = 41°28'.$

第39頁　$\log \cot x = 9.39353 - 10,\quad x = 76°6'.$

【例3】 求 $\log \tan 70°46'\ 8''.$

因 $8'' = \frac{8'}{60} = 0.13'$. 檢第45頁, $\log \tan 70°46'$ 之定值部分爲45731,其與 $47'$ 之定值部分之差爲41.

檢 PP 行, 41 之 0.1 比例分爲 4.1; 0.03 之比例分爲 1.23; 則 41 之 0.13 比例分約爲 5.

故所求之定值部分爲 45731 + 5 = 45736.

故 log tan 70°46′ 8″ = 0.45736.

【例 4】 求 log cos 47°35′4″.

因 $4'' = \frac{4'}{60} = 0.07'$. 檢第 68 頁, log cos 47°35′ 之定值部分爲 82899, 其與 36′ 之定值部分之差爲 14.

檢 PP 行, 14 之 0.07 比例分爲 0.98.

故所求之定值部分爲 82899 − 1 = 82898.

故 log cos 47°35′4″ = 9.82898 − 10.

注意: 凡角增大時, 則 log sin 及 log tan 亦增大, 而 log cos 及 log cot 則減小.

【例 5】 log sin x = 9.45359 − 10, 求 x.

檢第 42 頁 log sin 之定值部分, 45359 在 5334 與 45377 之間, 而 16°30′ 之定值部分爲 45334. 又 45334 與 45377 之差數爲 43; 45334 與 45359 之差數爲 25. 檢 PP 行, 43 之 0.6 比例分爲 25.8 (與 25 最近之數), 故知 x 爲 16°30′ + 0.6′, 卽 16°30.6′ 或 16° 30′ 36″.

【例 6】 log cot x = 0.73478, 求 x.

檢第 36 頁 log cot 之定值部分, 73478 在 73486 與 73415 之間, 而 10° 26′ 之定值部分爲 73486. 又 73486 與 73415 之差數

爲 71, 73486 與 73478 之差數爲 8. 檢 PP 行, 71 之 0.1 比例分爲 7.1 (與 8 最近之數), 故知 x 爲 10° 26′ + 0.1′, 卽 10° 26 1′ 或 10° 26′ 6″.

21. $\log\cos(0' - 3') = 0.00000$, $\log\sin(89°\,57' - 90°) = 0.00000$, 故於第 21 頁中皆不列入. 又於第 22 頁至第 27 頁, 自 3° −2°, 無 log cot, 自 88° − 89° 57′, 無 log tan, 則可由下之關係求之.

$$\log\tan = \operatorname{colog}\cot. \qquad \log\cot = \operatorname{colog}\tan.$$

【例 1】 求 $\log\cot 0°\,2'\,15''$.

檢第 21 頁, $\log\tan 0°\,2'\,15'' = 6.81591 - 10$

∴ $\log\cot 0°\,2'\,15'' = 10 - 10 + 3.18409$

【例 2】 求 $\log\tan 89°\,38'\,30''$.

檢第 23 頁, $\log\cot 89°\,38'\,30'' = 7.79617 - 10$

∴ $\log\tan 89°\,38'\,30'' = 10 - 10 + 2.20383$

【例 3】 $\log\cot x = 2.37368$, 求 x.

表中無 2.37368. 今 $\log\cot x = 2.37368$,

可知 $\operatorname{colog}\cot x = 7.62632$.

卽 $\log\tan x = 7.62632$.

檢第 22 頁, $\log\tan 14'30'' = 7.62510$. 故 x 之近似值爲 14′ 30″.

第 三 表

22. 求自 0°－2° 或自 88°－90° 之三角函數對數，欲較第二表更爲精密時，當用本表求之，表中 S 與 T 之定義如下．

$$S = \log \sin \alpha - \log \alpha'',$$
$$T = \log \tan \alpha - \log \alpha''.$$

取 S 與 T 之值時，應各附記 − 10 於其後，舉例如下．

【例 1】 求 log sin 0° 58′ 17″. log cos 88° 26′41.2″.

$$0° 58′ 17″ = 3497″.$$
$$\log 3497 = 3.54370$$
$$S = 4.68555 - 10$$
$$\log \sin 0° 58′ 17″ = 8.22925 - 10$$
$$90° - 88° 26′ 41.2″ = 1° 33′ 18.8″$$
$$= 5598.8″.$$
$$\log 5598.8 = 3.74809$$
$$S = 4.68552 - 10$$
$$\log \cos 88° 26′ 41.2″ = 8.43361 - 10$$

【例 2】 求 log tan 0° 52′ 47.5″. log tan 89° 54′ 37.362″.

$$0° 52′ 47.5″ = 3167.5″.$$
$$\log 3167.5 = 3.50072$$
$$T = 4.68561 - 10$$
$$\log \tan 0° 52′ 47.5″ = 8.18633 - 10$$

$$90^\circ - 89^\circ\,54'\,37.362'' = 0^\circ\,5'\,22.638''$$

$$= 322.638''.$$

$$\log 322.638 = 2.50871$$

$$\mathrm{T} = 4.68558 - 10$$

$$\log\cot 89^\circ\,54'\,37.362'' = 7.19429 - 10$$

$$\log\tan 89^\circ\,54'\,37.362'' = 2.80571.$$

【例 3】 $\log\sin x = 6.72306 - 10$, 求 x.

$$6.72306 - 10$$

$$\mathrm{S} = 4\ 68557 - 10$$

相減 $2.03749 = \log 109.015$

$109.015'' = 0^\circ\,1'\,49.015''$.

【例 4】 $\log\cot x = 1.67604$, 求 x.

$$\operatorname{colog}\cot x = 8.32396 - 10$$

$$\mathrm{T} = 4.68564 - 10$$

相減 $3.63832 = \log 4348.3$

$4348.3'' = 1^\circ\,12'\,28.3''$.

【例 5】 $\log\tan x = 1.55407$, 求 x.

$$\operatorname{colog}\tan x = 8.44593 - 10$$

$$\mathrm{T} = 4.68569 - 10$$

相減 $3.76024 = \log 5757.6$

$5757.6'' = 1^\circ\,35'\,57.6''$.

$$90^\circ - 1^\circ\,35'\,57.6'' = 88^\circ\,24\ 2.4''.$$

$$\therefore x = 88^\circ\,24'\,2.4''.$$

(第四表觀表自明)

第五表

23. 此表列三角函數之眞數. 自 0°－45°, 由每頁之頂往下檢之. 自 45°－90°, 由每頁之底往上檢之. 舉例如下:

第 80 頁 $\sin 15° 17' = 0.26359$. 第 85 頁, $\tan 65° 24' = 2.1842$.

求有秒數之三角函數眞數, 與求對數法同.

(第六、七兩表, 觀表自明)

第八表

24. 今於表中任取一數 n, 如第 105 頁, $n = 4.75$,

則
$$4.75^2 = n^2 = 22.5625,$$

$$\sqrt{4.75} = \sqrt{n} = 2.17945,$$

$$\sqrt{47.5} = \sqrt{10n} = 6.89202;$$

$$4.75^3 = n^3 = 107.172,$$

$$\sqrt[3]{4.75} = \sqrt[3]{n} = 1.68099,$$

$$\sqrt[3]{47.5} = \sqrt[3]{10n} = 3.62158,$$

$$\sqrt[3]{475} = \sqrt[3]{100n} = 7.80245;$$

$$\frac{1}{4.75} = \frac{1}{n} = 0.210526.$$

第九表

25. 此表中若N爲質數,則列其對數之定值部分,若N非質數,則列其因數.

自2至97之數,列於第116頁之右上方,如$\log 5 = 0.69897$, $\log 79 = 1.89763$.

第116頁左邊N直行下之數爲三位數之前二位.其第三位數爲橫列於N之1, 3, 7, 9.直橫二列相交之處,即爲所求三位數之因數或對數之定值部分.如N之直行62與橫行7相交之處3·11·19,即爲627之因數.又N之直行46與橫行3相交之處6655809910,即爲 og 463之定值部分.故$\log 463 = 2.66558$.

第117頁之左邊仿此.如897之因數爲3·13·23; 1053之因數爲$3^4 \cdot 13$; $\log 983 = 2.99255$; $\log 1259 = 3.10003$.

第116頁之右下方,爲$\log (1301-1559)$之定值部分,如$\log 1481 = 3.17056$.第117頁之右方,爲$\log (1567-2017)$之定值部分,如$\log 1831 = 3.26269$.