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TABLES OF FUNCTIONS ASSOCIATED WITH  
THE SERBER-WILSON METHOD FOR NEUTRON  
DIFFUSION CALCULATIONS IN A SPHERICAL GEOMETRY

Volume I

by

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PHYSICS

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The quantities  $k$  and  $\varphi$ .

The quantities  $k$  and  $\varphi$  tabulated in this report are functions of a parameter  $f$ ,  $-1 \leq f \leq \infty$ , the functional relations being transcendental equations.

For the case  $0 \leq f \leq \infty$  we have:

$$\frac{k}{\operatorname{arctanh} k} = \frac{\tan \varphi}{\varphi} = 1+f, \text{ and}$$

for the case  $-1 \leq f \leq 0$  we have:

$$\frac{k}{\operatorname{arctanh} k} = \frac{\operatorname{tanh} \varphi}{\varphi} = 1+f.$$

For an earlier tabulation of  $k$  we refer to LAMS-796 which also gives a number of expansions for  $k$ .

The functions  $Q(y, \varphi)$  and  $S(y)$ .

The function  $Q(y, \varphi)$  is defined as the solution of the following differential equation with the condition  $Q(0, \varphi) = 1$ :

$$Q_y'(y, \varphi) = \frac{1}{\tan \varphi} Q(y, \varphi) - \frac{1}{\varphi} \frac{\sin y}{y}.$$

This differential equation was solved numerically starting at  $y = 3.00$  and "proceeding" by intervals of 0.01 to  $y = 0.00$ , using standard integration methods. In this case the function value and the derivative last obtained, together with the previous three derivatives, were used to calculate the next function value. The corresponding derivative was then computed from the differential equation.

The solution of the above differential equation can also be written in terms of well-known functions and obtained from tabulations of these. We have

$$Q(y, \varphi) = -\frac{1}{\varphi} e^{\frac{y}{\tan \varphi}} \operatorname{Im} E\left(\frac{y}{\tan \varphi} + iy\right),$$

where

$$\lim_{\varphi \rightarrow 0} Q(y, \varphi) = \frac{\sin y}{y}, \text{ and}$$

$$\lim_{\varphi \rightarrow \frac{\pi}{2}} Q(y, \varphi) = 1 - \frac{2}{\pi} Si(y).$$

The function  $S(y)$  is defined below and is readily obtained from existing tabulations:

$$S(y) = \frac{\sin y - y \cos y}{y^2}.$$

The functions  $R(y, \varphi)$  and  $T(y)$ .

The function  $R(y, \varphi)$  is defined as the solution of the following differential equation:

$$R_y'(y, \varphi) = \frac{1}{\tan \varphi} R(y, \varphi) - \frac{1}{\varphi} \frac{\cos y}{y}.$$

This differential equation was solved numerically by the method used for  $Q(y, \varphi)$ , starting at  $y=3.00$  and terminating at  $y=0.50$ .

The solution of the above differential equation can also be written in terms of well-known functions. We have

$$R(y, \varphi) = \frac{1}{\varphi} e^{\frac{y}{\tan \varphi}} \operatorname{Re} E_1\left(\frac{y}{\tan \varphi} + iy\right),$$

where

$$\lim_{\varphi \rightarrow 0} R(y, \varphi) = \frac{\cos y}{y}, \text{ and}$$

$$\lim_{\varphi \rightarrow \pi/2} R(y, \varphi) = -\frac{2}{\pi} Ci(y).$$

In the  $y$ -interval  $(0.00, 0.50)$  the function  $R^*(y, \varphi)$  rather than  $R(y, \varphi)$  was tabulated to facilitate interpolation:

$$R^*(y, \varphi) = R(y, \varphi) - \frac{\tan \varphi}{y\varphi} U\left(\frac{y}{\tan \varphi}\right),$$

$$R_y^*(y, \varphi) = \frac{1}{\tan \varphi} R^*(y, \varphi) - \frac{1}{\varphi} \left(\frac{\cos y}{y} - 1\right).$$

The function  $U(z)$  is defined and tabulated in Volume II of these tables. The constant of integration for  $R(y, \varphi)$  and  $R^*(y, \varphi)$  was obtained from the condition:  $R^*(0, \varphi) = -\frac{1}{2\varphi} \ln(1 + \tan^2 \varphi)$ .

The functions  $T(y)$  and  $T^*(y)$  are defined below and readily obtained from existing tabulations:

$$T(y) = \frac{\cos y + y \sin y}{y^2}, \quad T^*(y) = y^2 T(y).$$

Table of  $k$  and  $\phi$  for positive and negative  $f$

$f$	$k(f=0)$	$\phi(f=0)$	$k(f=0)$	$\phi(f=0)$	$f$	$k(f=0)$	$\phi(f=0)$	$k(f=0)$	$\phi(f=0)$
0	.00000	.00000	.00000	.00000	.050	.39498	.37617	.37949	.39946
1	.05479	.05474	.05475	.05480	.051	.39906	.37970	.38310	.40369
2	.07752	.07737	.07740	.07756	.052	.40311	.38318	.38668	.40789
3	.09498	.09470	.09475	.09504	.053	.40713	.38664	.39022	.41206
4	.10972	.10928	.10937	.10981	.054	.41111	.39005	.39372	.41619
5	.12272	.12211	.12223	.12284	.055	.41506	.39342	.39718	.42030
6	.13449	.13369	.13384	.13465	.056	.41897	.39675	.40061	.42438
7	.14532	.14431	.14451	.14553	.057	.42286	.40006	.40400	.42842
8	.15541	.15418	.15442	.15567	.058	.42671	.40332	.40736	.43244
9	.16491	.16344	.16372	.16521	.059	.43054	.40655	.41068	.43643
0	.17390	.17218	.17251	.17425	.060	.43434	.40976	.41398	.44040
1	.18246	.18047	.18086	.18287	.061	.43812	.41293	.41724	.44435
2	.19065	.18839	.18882	.19111	.062	.44186	.41606	.42047	.44826
3	.19851	.19596	.19645	.19904	.063	.44558	.41917	.42367	.45216
4	.20608	.20323	.20379	.20668	.064	.44927	.42225	.42684	.45603
5	.21340	.21025	.21086	.21407	.065	.45294	.42530	.42998	.45987
6	.22049	.21702	.21768	.22122	.066	.45659	.42832	.43309	.46369
7	.22736	.22356	.22429	.22817	.067	.46021	.43131	.43617	.46749
8	.23405	.22991	.23070	.23493	.068	.46381	.43428	.43923	.47128
9	.24056	.23607	.23693	.24152	.069	.46738	.43721	.44226	.47504
0	.24690	.24206	.24298	.24794	.070	.47094	.44013	.44527	.47878
1	.25310	.24789	.24888	.25422	.071	.47447	.44302	.44825	.48251
2	.25916	.25358	.25464	.26037	.072	.47798	.44588	.45121	.48622
3	.26509	.25913	.26025	.26638	.073	.48147	.44871	.45414	.48990
4	.27089	.26454	.26574	.27227	.074	.48494	.45153	.45704	.49356
5	.27659	.26984	.27111	.27806	.075	.48839	.45432	.45993	.49722
6	.28218	.27503	.27637	.28375	.076	.49182	.45708	.46278	.50084
7	.28766	.28010	.28152	.28933	.077	.49524	.45983	.46562	.50446
8	.29306	.28508	.28657	.29483	.078	.49863	.46255	.46844	.50807
9	.29836	.28995	.29152	.30023	.079	.50201	.46525	.47123	.51165
0	.30358	.29473	.29638	.30555	.080	.50536	.46793	.47400	.51522
1	.30872	.29944	.30116	.31079	.081	.50870	.47058	.47675	.51877
2	.31378	.30405	.30585	.31596	.082	.51203	.47323	.47948	.52231
3	.31877	.30859	.31047	.32107	.083	.51534	.47584	.48219	.52583
4	.32369	.31305	.31500	.32609	.084	.51863	.47844	.48488	.52934
5	.32855	.31744	.31947	.33106	.085	.52190	.48101	.48755	.53284
6	.33334	.32176	.32387	.33596	.086	.52516	.48357	.49020	.53632
7	.33807	.32601	.32820	.34081	.087	.52840	.48611	.49283	.53979
8	.34274	.33019	.33247	.34560	.088	.53163	.48863	.49544	.54325
9	.34735	.33431	.33668	.35034	.089	.53484	.49113	.49804	.54670
0	.35191	.33838	.34083	.35503	.090	.53804	.49361	.50061	.55013
1	.35643	.34239	.34492	.35967	.091	.54122	.49608	.50317	.55354
2	.36089	.34634	.34896	.36426	.092	.54439	.49853	.50571	.55695
3	.36530	.35024	.35294	.36880	.093	.54755	.50096	.50824	.56035
4	.36967	.35409	.35687	.37329	.094	.55069	.50337	.51074	.56373
5	.37399	.35789	.36076	.37776	.095	.55381	.50576	.51323	.56710
6	.37827	.36163	.36459	.38217	.096	.55693	.50815	.51570	.57046
7	.38250	.36533	.36838	.38655	.097	.56003	.51051	.51816	.57382
8	.38670	.36899	.37213	.39089	.098	.56313	.51287	.52060	.57716
9	.39086	.37260	.37583	.39519	.099	.56620	.51520	.52302	.58049
0	.39498	.37617	.37949	.39946	.100	.56926	.51751	.52543	.58381

Table of  $K$  and  $\varphi$  for positive and negative  $f$

$f$	$K(f=0)$	$\varphi(f=0)$	$K(f=0)$	$\varphi(f=0)$	$f$	$K(f=0)$	$\varphi(f=0)$	$K(f=0)$	$\varphi(f=0)$
100	.56926	.51751	.52543	.58381	.150	.71007	.61745	.62950	.74098
101	.57232	.51982	.52782	.58712	.151	.71269	.61919	.63131	.74359
102	.57536	.52211	.53020	.59042	.152	.71530	.62092	.63311	.74659
103	.57839	.52438	.53256	.59371	.153	.71791	.62265	.63492	.74961
104	.58140	.52663	.53491	.59700	.154	.72051	.62436	.63669	.75259
105	.58441	.52888	.53724	.60027	.155	.72310	.62606	.63847	.75558
106	.58740	.53110	.53956	.60353	.156	.72569	.62776	.64023	.75857
107	.59038	.53332	.54186	.60679	.157	.72827	.62945	.64199	.76155
108	.59336	.53552	.54415	.61003	.158	.73085	.63113	.64374	.76456
109	.59632	.53771	.54643	.61328	.159	.73342	.63280	.64549	.76753
110	.59927	.53988	.54869	.61651	.160	.73599	.63448	.64722	.77050
111	.60221	.54204	.55094	.61973	.161	.73855	.63613	.64894	.77347
112	.60514	.54419	.55318	.62295	.162	.74111	.63779	.65066	.77644
113	.60806	.54633	.55540	.62616	.163	.74365	.63942	.65237	.77941
114	.61097	.54845	.55761	.62936	.164	.74620	.64107	.65407	.78238
115	.61387	.55056	.55980	.63254	.165	.74874	.64270	.65576	.78534
116	.61676	.55265	.56198	.63572	.166	.75127	.64431	.65745	.78831
117	.61964	.55474	.56415	.63890	.167	.75379	.64592	.65913	.79127
118	.62251	.55681	.56631	.64207	.168	.75632	.64753	.66080	.79423
119	.62537	.55887	.56846	.64524	.169	.75883	.64913	.66246	.79718
120	.62822	.56091	.57059	.64840	.170	.76135	.65072	.66411	.80014
121	.63107	.56295	.57271	.65155	.171	.76386	.65231	.66576	.80309
122	.63390	.56497	.57482	.65469	.172	.76636	.65389	.66740	.80604
123	.63673	.56699	.57692	.65783	.173	.76885	.65546	.66903	.80898
124	.63955	.56899	.57900	.66096	.174	.77134	.65702	.67065	.81192
125	.64235	.57098	.58108	.66409	.175	.77383	.65858	.67227	.81487
126	.64515	.57296	.58314	.66721	.176	.77632	.66014	.67388	.81782
127	.64795	.57493	.58519	.67032	.177	.77879	.66167	.67548	.82075
128	.65073	.57689	.58723	.67343	.178	.78126	.66321	.67707	.82369
129	.65350	.57883	.58926	.67653	.179	.78373	.66474	.67866	.82663
130	.65627	.58077	.59128	.67963	.180	.78619	.66627	.68024	.82956
131	.65903	.58270	.59329	.68273	.181	.78865	.66778	.68181	.83249
132	.66178	.58461	.59528	.68581	.182	.79111	.66930	.68338	.83543
133	.66453	.58652	.59727	.68889	.183	.79355	.67079	.68494	.83836
134	.66726	.58841	.59925	.69197	.184	.79600	.67230	.68649	.84129
135	.66999	.59030	.60121	.69504	.185	.79844	.67379	.68803	.84421
136	.67271	.59217	.60317	.69811	.186	.80087	.67527	.68957	.84714
137	.67542	.59404	.60511	.70117	.187	.80331	.67676	.69110	.85006
138	.67813	.59590	.60704	.70422	.188	.80574	.67823	.69263	.85299
139	.68083	.59774	.60897	.70728	.189	.80816	.67970	.69414	.85591
140	.68352	.59958	.61088	.71033	.190	.81058	.68116	.69565	.85883
141	.68621	.60141	.61279	.71338	.191	.81299	.68261	.69716	.86176
142	.68889	.60323	.61468	.71641	.192	.81541	.68407	.69866	.86468
143	.69156	.60504	.61657	.71945	.193	.81781	.68551	.70015	.86760
144	.69423	.60684	.61844	.72248	.194	.82021	.68694	.70163	.87051
145	.69688	.60863	.62031	.72551	.195	.82261	.68838	.70311	.87343
146	.69953	.61041	.62217	.72854	.196	.82501	.68981	.70458	.87634
147	.70218	.61219	.62401	.73155	.197	.82739	.69122	.70605	.87927
148	.70481	.61395	.62585	.73457	.198	.82978	.69264	.70751	.88218
149	.70745	.61571	.62768	.73758	.199	.83216	.69405	.70896	.88509
150	.71007	.61745	.62950	.74059	.200	.83454	.69545	.71041	.88802



Table of  $k$  and  $\phi$  for positive and negative  $f$

$f$	$k(f \geq 0)$	$\phi(f \geq 0)$	$k(f \leq 0)$	$\phi(f \leq 0)$	$f$	$k(f \geq 0)$	$\phi(f \geq 0)$	$k(f \leq 0)$	$\frac{1}{\phi}(f \leq 0)$
0	.00000	.00000	.00000	.00000	.50	1.45110	.96740	.95750	.52219
1	.17390	.17218	.17251	.17425	.51	1.46978	.97336	.96122	.50977
2	.24690	.24206	.24298	.24794	.52	1.48838	.97920	.96472	.49755
3	.30358	.29474	.29638	.30555	.53	1.50692	.98492	.96800	.48554
4	.35192	.33838	.34083	.35503	.54	1.52540	.99052	.97109	.47369
5	.39498	.37617	.37949	.39946	.55	1.54381	.99601	.97398	.46202
6	.43434	.40976	.41398	.44040	.56	1.56216	1.00138	.97667	.45051
7	.47094	.44013	.44527	.47878	.57	1.58045	1.00666	.97918	.43914
8	.50536	.46793	.47400	.51522	.58	1.59869	1.01183	.98150	.42792
9	.53804	.49361	.50061	.55013	.59	1.61687	1.01690	.98365	.41681
10	.56926	.51751	.52543	.58381	.60	1.63500	1.02188	.98562	.40584
11	.59927	.53988	.54869	.61651	.61	1.65308	1.02676	.98744	.39496
12	.62822	.56091	.57059	.64840	.62	1.67111	1.03155	.98909	.38419
13	.65627	.58077	.59128	.67963	.63	1.68910	1.03626	.99059	.37351
14	.68352	.59958	.61088	.71033	.64	1.70704	1.04088	.99195	.36292
15	.71007	.61745	.62950	.74059	.65	1.72493	1.04541	.99316	.35241
16	.73599	.63448	.64722	.77050	.66	1.74278	1.04987	.99425	.34197
17	.76135	.65072	.66411	.80014	.67	1.76059	1.05424	.99521	.33159
18	.78619	.66627	.68024	.82956	.68	1.77836	1.05855	.99605	.32127
19	.81058	.68116	.69566	.85884	.69	1.79609	1.06277	.99678	.31100
20	.83454	.69545	.71041	.88802	.70	1.81378	1.06693	.99741	.30078
21	.85812	.70919	.72454	.91714	.71	1.83143	1.07101	.99795	.29060
22	.88134	.72241	.73809	.94627	.72	1.84905	1.07503	.99840	.28045
23	.90423	.73515	.75108	.97543	.73	1.86664	1.07898	.99878	.27033
24	.92682	.74744	.76355	1.00467	.74	1.88419	1.08287	.99908	.26024
25	.94914	.75931	.77552	1.03402	.75	1.90170	1.08669	.99933	.25017
26	.97118	.77078	.78701	1.06353	.76	1.91919	1.09045	.99952	.24012
27	.99299	.78188	.79805	1.09322	.77	1.93664	1.09415	.99966	.23008
28	1.01456	.79263	.80866	1.12313	.78	1.95407	1.09779	.99977	.22005
29	1.03592	.80304	.81885	1.15330	.79	1.97146	1.10138	.99985	.21003
30	1.05708	.81314	.82864	1.18376	.80	1.98883	1.10490	.99991	.20002
31	1.07805	.82294	.83804	1.21455	.81	2.00617	1.10838	.99995	.19001
32	1.09884	.83246	.84707	1.24569	.82	2.02348	1.11180	.99997	.18001
33	1.11947	.84171	.85575	1.27723	.83	2.04076	1.11517	.99998	.17000
34	1.13993	.85070	.86407	1.30920	.84	2.05802	1.11849	.99999	.16000
35	1.16025	.85944	.87206	1.34164	.85	2.07525	1.12176	1.00000	.15000
36	1.18042	.86796	.87973	1.37458	.86	2.09246	1.12498	1.00000	.14000
37	1.20046	.87624	.88708	1.40807	.87	2.10965	1.12815	1.00000	.13000
38	1.22036	.88432	.89413	1.44214	.88	2.12681	1.13128	1.00000	.12000
39	1.24015	.89219	.90088	1.47684	.89	2.14395	1.13436	1.00000	.11000
40	1.25981	.89987	.90773	1.51222	.90	2.16106	1.13740	1.00000	.10000
41	1.27937	.90735	.91351	1.54832	.91	2.17816	1.14040	1.00000	.09000
42	1.29882	.91466	.91941	1.58519	.92	2.19524	1.14335	1.00000	.08000
43	1.31817	.92180	.92504	1.62288	.93	2.21229	1.14626	1.00000	.07000
44	1.33742	.92876	.93041	1.66145	.94	2.22932	1.14913	1.00000	.06000
45	1.35658	.93557	.93553	1.70096	.95	2.24634	1.15197	1.00000	.05000
46	1.37565	.94222	.94040	1.74148	.96	2.26333	1.15476	1.00000	.04000
47	1.39463	.94873	.94502	1.78306	.97	2.28030	1.15752	1.00000	.03000
48	1.41353	.95509	.94941	1.82579	.98	2.29726	1.16023	1.00000	.02000
49	1.43236	.96131	.95357	1.86975	.99	2.31420	1.16292	1.00000	.01000
50	1.45110	.96740	.95750	1.91501	1.00	2.33112	1.16556	1.00000	.00000

Table of  $Q(x, \varphi)$  and  $S(y)$

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$S(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	.999983	.999817	.999650	.999483	.999315	.999147	.003333
.02	.999933	.999600	.999266	.998932	.998597	.998261	.006666
.03	.999850	.999350	.998850	.998349	.997846	.997342	.009999
.04	.999733	.999067	.998400	.997732	.997063	.996391	.013331
.05	.999583	.998750	.997917	.997083	.996246	.995407	.016663
.06	.999400	.998401	.997401	.996400	.995397	.994391	.019993
.07	.999184	.998018	.996852	.995685	.994515	.993342	.023322
.08	.998934	.997602	.996270	.994937	.993601	.992261	.026650
.09	.998651	.997152	.995655	.994156	.992654	.991148	.029976
.10	.998334	.996670	.995006	.993342	.991674	.990002	.033300
.11	.997985	.996154	.994325	.992495	.990662	.988824	.036622
.12	.997602	.995606	.993611	.991616	.989618	.987614	.039942
.13	.997186	.995024	.992864	.990704	.988541	.986373	.043260
.14	.996737	.994410	.992085	.989759	.987431	.985099	.046575
.15	.996254	.993762	.991272	.988782	.986290	.983793	.049888
.16	.995739	.993081	.990427	.987773	.985116	.982455	.053197
.17	.995190	.992368	.989549	.986731	.983911	.981086	.056503
.18	.994609	.991622	.988639	.985657	.982673	.979685	.059806
.19	.993994	.990842	.987695	.984550	.981404	.978252	.063105
.20	.993347	.990031	.986720	.983412	.980102	.976788	.066400
.21	.992666	.989186	.985712	.982241	.978769	.975293	.069692
.22	.991953	.988309	.984671	.981038	.977404	.973766	.072979
.23	.991207	.987399	.983599	.979803	.976007	.972208	.076262
.24	.990428	.986456	.982494	.978536	.974579	.970619	.079540
.25	.989616	.985481	.981357	.977237	.973120	.968999	.082814
.26	.988771	.984474	.980187	.975907	.971629	.967348	.086082
.27	.987894	.983434	.978986	.974545	.970106	.965666	.089346
.28	.986984	.982362	.977753	.973151	.968553	.963954	.092604
.29	.986042	.981258	.976487	.971726	.966968	.962211	.095856
.30	.985067	.980121	.975190	.970269	.965353	.960437	.099103
.31	.984060	.978953	.973861	.968781	.963706	.958633	.102344
.32	.983021	.977752	.972501	.967261	.962029	.956798	.105578
.33	.981949	.976519	.971109	.965711	.960321	.954934	.108807
.34	.980844	.975255	.969685	.964129	.958582	.953039	.112029
.35	.979708	.973958	.968230	.962517	.956813	.951114	.115244
.36	.978540	.972630	.966743	.960873	.955014	.949160	.118452
.37	.977339	.971270	.965226	.959199	.953184	.947175	.121653
.38	.976106	.969879	.963677	.957494	.951324	.945161	.124847
.39	.974842	.968456	.962097	.955758	.949434	.943118	.128033
.40	.973546	.967002	.960486	.953992	.947514	.941045	.131212
.41	.972218	.965516	.958844	.952196	.945564	.938943	.134383
.42	.970858	.963999	.957172	.950369	.943585	.936811	.137546
.43	.969467	.962451	.955468	.948512	.941575	.934651	.140701
.44	.968044	.960872	.953735	.946625	.939537	.932462	.143847
.45	.966590	.959262	.951970	.944708	.937469	.930244	.146984
.46	.965105	.957621	.950176	.942762	.935371	.927997	.150113
.47	.963588	.955949	.948351	.940785	.933245	.925722	.153233
.48	.962040	.954247	.946496	.938779	.931089	.923419	.156344
.49	.960461	.952514	.944610	.936744	.928905	.921087	.159445
.50	.958851	.950750	.942695	.934679	.926692	.918727	.162537

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$S(y)$
.50	.958851	.950750	.942695	.934679	.926692	.918727	.162537
.51	.957210	.948956	.940750	.932585	.924450	.916340	.165619
.52	.955539	.947132	.938776	.930461	.922180	.913924	.168691
.53	.953836	.945278	.936772	.928309	.919882	.911481	.171754
.54	.952104	.943394	.934738	.926128	.917555	.909010	.174806
.55	.950340	.941479	.932675	.923918	.915200	.906512	.177847
.56	.948547	.939535	.930583	.921680	.912817	.903987	.180878
.57	.946723	.937562	.928461	.919413	.910407	.901434	.183898
.58	.944869	.935558	.926311	.917118	.907969	.898855	.186907
.59	.942985	.933526	.924132	.914794	.905503	.896249	.189905
.60	.941071	.931463	.921924	.912443	.903010	.893616	.192892
.61	.939127	.929372	.919688	.910063	.900490	.890957	.195867
.62	.937153	.927252	.917423	.907656	.897942	.888272	.198831
.63	.935150	.925102	.915129	.905221	.895368	.885560	.201782
.64	.933118	.922924	.912808	.902759	.892767	.882822	.204722
.65	.931056	.920717	.910459	.900270	.890140	.880059	.207650
.66	.928965	.918482	.908081	.897753	.887486	.877270	.210565
.67	.926845	.916218	.905676	.895209	.884805	.874455	.213467
.68	.924696	.913926	.903243	.892638	.882099	.871615	.216357
.69	.922518	.911605	.900783	.890041	.879366	.868750	.219234
.70	.920311	.909257	.898296	.887416	.876608	.865860	.222098
.71	.918076	.906880	.895781	.884766	.873824	.862945	.224949
.72	.915812	.904476	.893239	.882089	.871015	.860005	.227787
.73	.913520	.902044	.890670	.879386	.868180	.857041	.230610
.74	.911200	.899585	.888075	.876657	.865320	.854052	.233421
.75	.908852	.897099	.885453	.873903	.862435	.851040	.236217
.76	.906476	.894585	.882805	.871122	.859526	.848003	.238999
.77	.904072	.892044	.880130	.868316	.856591	.844943	.241768
.78	.901640	.889477	.877429	.865485	.853632	.841859	.244521
.79	.899181	.886882	.874703	.862629	.850649	.838751	.247261
.80	.896695	.884261	.871950	.859748	.847642	.835621	.249986
.81	.894182	.881614	.869172	.856842	.844611	.832467	.252695
.82	.891641	.878941	.866368	.853911	.841556	.829290	.255390
.83	.889074	.876241	.863539	.850956	.838477	.826091	.258070
.84	.886480	.873515	.860685	.847977	.835375	.822869	.260735
.85	.883859	.870764	.857806	.844973	.832250	.819625	.263384
.86	.881212	.867987	.854903	.841945	.829102	.816359	.266017
.87	.878539	.865184	.851974	.838894	.825931	.813070	.268635
.88	.875840	.862357	.849021	.835819	.822737	.809760	.271237
.89	.873114	.859504	.846044	.832721	.819521	.806429	.273823
.90	.870363	.856626	.843043	.829600	.816282	.803076	.276393
.91	.867587	.853723	.840018	.826455	.813021	.799702	.278946
.92	.864784	.850796	.836969	.823288	.809739	.796307	.281483
.93	.861957	.847844	.833896	.820098	.806434	.792891	.284003
.94	.859104	.844868	.830801	.816885	.803108	.789454	.286507
.95	.856227	.841868	.827682	.813651	.799761	.785998	.288993
.96	.853325	.838844	.824539	.810394	.796392	.782521	.291463
.97	.850398	.835797	.821375	.807115	.793003	.779024	.293916
.98	.847446	.832725	.818187	.803815	.789593	.775507	.296351
.99	.844471	.829631	.814977	.800493	.786162	.771971	.298769
1.00	.841471	.826513	.811745	.797149	.782711	.768415	.301169

Table of  $Q(y, \varphi)$  and  $S(y)$

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$S(y)$
1.00	.841471	.826513	.811745	.797149	.782711	.768415	.301169
1.01	.838447	.823372	.808490	.793785	.779240	.764840	.303551
1.02	.835400	.820208	.805214	.790399	.775749	.761247	.305916
1.03	.832329	.817022	.801916	.786993	.772238	.757634	.308262
1.04	.829235	.813813	.798596	.783566	.768707	.754003	.310591
1.05	.826117	.810582	.795255	.780119	.765157	.750354	.312901
1.06	.822977	.807329	.791893	.776652	.761588	.746686	.315193
1.07	.819814	.804054	.788511	.773165	.758000	.743001	.317467
1.08	.816628	.800757	.785107	.769658	.754394	.739298	.319722
1.09	.813419	.797439	.781683	.766132	.750768	.735577	.321958
1.10	.810189	.794100	.778238	.762586	.747125	.731839	.324175
1.11	.806936	.790739	.774774	.759021	.743463	.728084	.326373
1.12	.803661	.787357	.771289	.755437	.739784	.724313	.328552
1.13	.800365	.783955	.767785	.751834	.736087	.720524	.330712
1.14	.797047	.780532	.764261	.748213	.732372	.716720	.332853
1.15	.793708	.777089	.760718	.744574	.728640	.712899	.334974
1.16	.790348	.773626	.757155	.740917	.724891	.709062	.337076
1.17	.786966	.770143	.753574	.737241	.721125	.705209	.339158
1.18	.783564	.766640	.749974	.733548	.717343	.701341	.341220
1.19	.780142	.763117	.746356	.729838	.713544	.697458	.343262
1.20	.776699	.759576	.742719	.726110	.709729	.693559	.345285
1.21	.773236	.756015	.739065	.722366	.705899	.689646	.347287
1.22	.769754	.752435	.735392	.718604	.702052	.685718	.349269
1.23	.766251	.748837	.731702	.714826	.698190	.681775	.351230
1.24	.762729	.745220	.727994	.711032	.694313	.677819	.353172
1.25	.759188	.741584	.724269	.707221	.690420	.673848	.355092
1.26	.755627	.737931	.720527	.703394	.686513	.669864	.356992
1.27	.752048	.734260	.716768	.699552	.682591	.665866	.358872
1.28	.748450	.730571	.712993	.695694	.678655	.661855	.360730
1.29	.744833	.726865	.709202	.691821	.674704	.657831	.362568
1.30	.741199	.723142	.705394	.687933	.670740	.653794	.364384
1.31	.737546	.719401	.701570	.684031	.666762	.649744	.366180
1.32	.733875	.715644	.697731	.680113	.662770	.645682	.367954
1.33	.730187	.711870	.693876	.676181	.658765	.641608	.369707
1.34	.726481	.708080	.690006	.672235	.654747	.637522	.371439
1.35	.722758	.704274	.686121	.668275	.650717	.633424	.373149
1.36	.719018	.700452	.682221	.664302	.646673	.629315	.374838
1.37	.715261	.696614	.678306	.660315	.642618	.625195	.376505
1.38	.711488	.692761	.674377	.656314	.638550	.621064	.378150
1.39	.707698	.688892	.670434	.652301	.634470	.616922	.379774
1.40	.703893	.685009	.666477	.648275	.630379	.612769	.381375
1.41	.700071	.681110	.662506	.644236	.626276	.608606	.382955
1.42	.696234	.677197	.658522	.640185	.622162	.604433	.384513
1.43	.692381	.673270	.654525	.636122	.618037	.600251	.386048
1.44	.688513	.669328	.650514	.632047	.613902	.596059	.387562
1.45	.684630	.665373	.646491	.627960	.609756	.591857	.389053
1.46	.680732	.661404	.642456	.623862	.605599	.587646	.390522
1.47	.676819	.657422	.638408	.619752	.601433	.583427	.391968
1.48	.672892	.653426	.634347	.615632	.597257	.579198	.393392
1.49	.668952	.649417	.630275	.611501	.593071	.574962	.394794
1.50	.664997	.645396	.626192	.607360	.588876	.570717	.396173

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$S(y)$
1.50	.664997	.645396	.626192	.607360	.588876	.570717	.396173
1.51	.661028	.641362	.622097	.603208	.584672	.566464	.397529
1.52	.657046	.637315	.617991	.599047	.580459	.562204	.398863
1.53	.653051	.633257	.613874	.594875	.576237	.557936	.400174
1.54	.649043	.629187	.609746	.590694	.572007	.553661	.401462
1.55	.645022	.625105	.605608	.586504	.567769	.549379	.402727
1.56	.640988	.621011	.601459	.582304	.563523	.545090	.403969
1.57	.636942	.616907	.597301	.578096	.559269	.540795	.405189
1.58	.632885	.612792	.593132	.573879	.555008	.536493	.406385
1.59	.628815	.608666	.588954	.569654	.550739	.532186	.407558
1.60	.624734	.604529	.584767	.565421	.546464	.527873	.408708
1.61	.620641	.600382	.580571	.561180	.542182	.523554	.409835
1.62	.616537	.596226	.576366	.556931	.537893	.519229	.410939
1.63	.612422	.592059	.572153	.552674	.533598	.514900	.412019
1.64	.608297	.587883	.567931	.548411	.529297	.510566	.413076
1.65	.604161	.583698	.563701	.544140	.524991	.506227	.414110
1.66	.600014	.579504	.559463	.539863	.520679	.501884	.415120
1.67	.595858	.575300	.555217	.535580	.516361	.497537	.416107
1.68	.591692	.571089	.550964	.531290	.512039	.493186	.417071
1.69	.587517	.566869	.546704	.526994	.507711	.488831	.418011
1.70	.583332	.562640	.542437	.522692	.503380	.484473	.418927
1.71	.579138	.558404	.538163	.518385	.499043	.480111	.419820
1.72	.574936	.554161	.533883	.514073	.494703	.475747	.420690
1.73	.570725	.549910	.529596	.509755	.490359	.471380	.421536
1.74	.566505	.545651	.525304	.505433	.486011	.467011	.422358
1.75	.562278	.541386	.521006	.501106	.481660	.462639	.423156
1.76	.558042	.537114	.516702	.496775	.477305	.458265	.423931
1.77	.553799	.532836	.512393	.492440	.472948	.453890	.424682
1.78	.549549	.528552	.508079	.488101	.468588	.449513	.425410
1.79	.545291	.524261	.503761	.483758	.464225	.445135	.426114
1.80	.541026	.519965	.499437	.479412	.459861	.440756	.426794
1.81	.536755	.515663	.495110	.475063	.455494	.436376	.427450
1.82	.532478	.511356	.490778	.470711	.451126	.431995	.428082
1.83	.528194	.507044	.486442	.466356	.446756	.427614	.428691
1.84	.523904	.502727	.482103	.461999	.442385	.423233	.429276
1.85	.519608	.498406	.477761	.457639	.438013	.418852	.429837
1.86	.515307	.494081	.473415	.453278	.433640	.414472	.430374
1.87	.511001	.489751	.469067	.448915	.429266	.410092	.430888
1.88	.506689	.485417	.464715	.444550	.424892	.405713	.431377
1.89	.502373	.481080	.460362	.440185	.420519	.401335	.431843
1.90	.498053	.476740	.456006	.435818	.416145	.396958	.432285
1.91	.493728	.472396	.451648	.431450	.411772	.392583	.432704
1.92	.489399	.468050	.447289	.427082	.407399	.388210	.433098
1.93	.485066	.463701	.442928	.422714	.403027	.383838	.433469
1.94	.480729	.459349	.438566	.418345	.398656	.379469	.433816
1.95	.476390	.454996	.434203	.413977	.394287	.375102	.434139
1.96	.472047	.450640	.429839	.409609	.389919	.370738	.434438
1.97	.467701	.446283	.425475	.405242	.385553	.366377	.434714
1.98	.463353	.441924	.421110	.400875	.381189	.362019	.434965
1.99	.459002	.437564	.416745	.396510	.376827	.357665	.435193
2.00	.454649	.433203	.412381	.392146	.372467	.353314	.435398

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$S(y)$
2.00	.454649	.433203	.412381	.392146	.372467	.353314	.435398
2.01	.450294	.428841	.408017	.387784	.368111	.348967	.435578
2.02	.445937	.424479	.403653	.383423	.363757	.344624	.435735
2.03	.441579	.420117	.399291	.379065	.359407	.340285	.435869
2.04	.437220	.415754	.394929	.374708	.355059	.335951	.435978
2.05	.432860	.411392	.390569	.370355	.350716	.331621	.436065
2.06	.428499	.407030	.386211	.366004	.346376	.327297	.436127
2.07	.424137	.402669	.381854	.361656	.342041	.322977	.436166
2.08	.419775	.398308	.377499	.357311	.337709	.318663	.436182
2.09	.415414	.393949	.373147	.352969	.333383	.314355	.436173
2.10	.411052	.389591	.368797	.348631	.329061	.310053	.436142
2.11	.406691	.385235	.364450	.344297	.324744	.305756	.436087
2.12	.402330	.380881	.360106	.339967	.320432	.301466	.436009
2.13	.397971	.376528	.355765	.335642	.316126	.297183	.435907
2.14	.393612	.372178	.351427	.331321	.311825	.292906	.435782
2.15	.389255	.367831	.347093	.327004	.307530	.288636	.435634
2.16	.384900	.363486	.342764	.322693	.303241	.284373	.435462
2.17	.380546	.359144	.338438	.318387	.298959	.280118	.435268
2.18	.376194	.354806	.334116	.314087	.294683	.275870	.435050
2.19	.371845	.350470	.329799	.309792	.290414	.271630	.434809
2.20	.367498	.346139	.325487	.305503	.286152	.267399	.434545
2.21	.363154	.341811	.321180	.301220	.281897	.263175	.434258
2.22	.358813	.337488	.316878	.296942	.277649	.258960	.433948
2.23	.354475	.333169	.312581	.292674	.273409	.254753	.433616
2.24	.350141	.328854	.308291	.288411	.269177	.250556	.433260
2.25	.345810	.324544	.304006	.284154	.264953	.246367	.432882
2.26	.341483	.320240	.299727	.279905	.260737	.242188	.432481
2.27	.337161	.315940	.295455	.275664	.256530	.238018	.432057
2.28	.332842	.311646	.291189	.271430	.252331	.233858	.431611
2.29	.328529	.307358	.286930	.267203	.248141	.229708	.431142
2.30	.324220	.303075	.282678	.262985	.243961	.225568	.430650
2.31	.319916	.298799	.278433	.258776	.239789	.221439	.430137
2.32	.315617	.294529	.274195	.254574	.235627	.217320	.429600
2.33	.311324	.290266	.269966	.250382	.231475	.213211	.429042
2.34	.307036	.286009	.265744	.246198	.227333	.209114	.428461
2.35	.302755	.281760	.261530	.242023	.223201	.205028	.427859
2.36	.298479	.277517	.257324	.237858	.219079	.200953	.427234
2.37	.294210	.273282	.253127	.233703	.214968	.196889	.426587
2.38	.289947	.269055	.248939	.229557	.210868	.192837	.425918
2.39	.285692	.264836	.244760	.225421	.206779	.188798	.425228
2.40	.281443	.260624	.240590	.221295	.202700	.184770	.424515
2.41	.277201	.256422	.236429	.217179	.198633	.180755	.423781
2.42	.272967	.252227	.232277	.213074	.194578	.176752	.423026
2.43	.268741	.248041	.228136	.208980	.190534	.172762	.422248
2.44	.264523	.243865	.224004	.204897	.186503	.168784	.421450
2.45	.260312	.239697	.219883	.200825	.182483	.164820	.420630
2.46	.256110	.235539	.215772	.196764	.178476	.160869	.419789
2.47	.251916	.231390	.211671	.192715	.174481	.156932	.418926
2.48	.247732	.227251	.207581	.188678	.170499	.153008	.418043
2.49	.243556	.223122	.203503	.184652	.166530	.149098	.417138
2.50	.239389	.219003	.199435	.180639	.162574	.145202	.416213

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$S(y)$
2.50	.239389	.219003	.199435	.180639	.162574	.145202	.416213
2.51	.235231	.214895	.195379	.176638	.158631	.141320	.415267
2.52	.231084	.210797	.191334	.172650	.154702	.137452	.414300
2.53	.226946	.206710	.187301	.168674	.150786	.133599	.413312
2.54	.222817	.202634	.183281	.164712	.146885	.129761	.412304
2.55	.218699	.198569	.179272	.160762	.142997	.125938	.411276
2.56	.214592	.194516	.175276	.156826	.139123	.122129	.410227
2.57	.210495	.190474	.171292	.152903	.135264	.118336	.409158
2.58	.206409	.186443	.167321	.148994	.131419	.114559	.408069
2.59	.202334	.182425	.163363	.145098	.127589	.110797	.406959
2.60	.198270	.178419	.159418	.141217	.123774	.107050	.405830
2.61	.194217	.174426	.155486	.137350	.119974	.103320	.404681
2.62	.190176	.170445	.151568	.133497	.116190	.099606	.403513
2.63	.186147	.166476	.147663	.129659	.112420	.095908	.402324
2.64	.182130	.162521	.143772	.125836	.108667	.092226	.401117
2.65	.178125	.158579	.139896	.122027	.104929	.088561	.399889
2.66	.174132	.154650	.136033	.118234	.101207	.084913	.398643
2.67	.170152	.150735	.132185	.114456	.097501	.081282	.397377
2.68	.166185	.146833	.128352	.110693	.093812	.077667	.396093
2.69	.162230	.142945	.124533	.106946	.090139	.074070	.394789
2.70	.158289	.139071	.120729	.103215	.086482	.070491	.393467
2.71	.154361	.135212	.116941	.099499	.082842	.066929	.392126
2.72	.150446	.131366	.113167	.095800	.079219	.063384	.390766
2.73	.146546	.127536	.109410	.092117	.075614	.059858	.389388
2.74	.142659	.123720	.105667	.088451	.072025	.056349	.387992
2.75	.138786	.119919	.101941	.084801	.068454	.052858	.386578
2.76	.134927	.116133	.098230	.081168	.064901	.049386	.385145
2.77	.131083	.112363	.094536	.077552	.061365	.045933	.383694
2.78	.127253	.108608	.090858	.073953	.057847	.042497	.382226
2.79	.123439	.104869	.087196	.070371	.054347	.039081	.380740
2.80	.119639	.101145	.083552	.066807	.050865	.035683	.379236
2.81	.115854	.097438	.079923	.063260	.047402	.032305	.377715
2.82	.112084	.093746	.076312	.059731	.043956	.028946	.376176
2.83	.108330	.090071	.072718	.056220	.040530	.025605	.374621
2.84	.104592	.086412	.069141	.052727	.037122	.022285	.373048
2.85	.100869	.082770	.065582	.049252	.033733	.018984	.371458
2.86	.097163	.079145	.062040	.045795	.030364	.015702	.369852
2.87	.093472	.075537	.058516	.042357	.027013	.012440	.368229
2.88	.089798	.071946	.055010	.038937	.023682	.009199	.366589
2.89	.086141	.068372	.051521	.035537	.020370	.005977	.364934
2.90	.082500	.064816	.048051	.032155	.017077	.002776	.363261
2.91	.078876	.061277	.044600	.028792	.013805	-.000405	.361573
2.92	.075268	.057756	.041167	.025448	.010552	-.003566	.359869
2.93	.071678	.054253	.037752	.022124	.007319	-.006706	.358149
2.94	.068105	.050767	.034356	.018819	.004106	-.009825	.356413
2.95	.064550	.047300	.030979	.015533	.000914	-.012924	.354662
2.96	.061012	.043852	.027622	.012268	-.002259	-.016002	.352895
2.97	.057492	.040422	.024283	.009022	-.005411	-.019058	.351113
2.98	.053990	.037010	.020963	.005796	-.008542	-.022094	.349316
2.99	.050506	.033617	.017664	.002590	-.011652	-.025108	.347504
3.00	.047040	.030244	.014383	-.000595	-.014742	-.028101	.345677

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$S(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	.999147	.998978	.998808	.998636	.998464	.998289	.003333
.02	.998261	.997923	.997583	.997241	.996896	.996548	.006666
.03	.997342	.996836	.996326	.995814	.995297	.994775	.009999
.04	.996391	.995716	.995038	.994355	.993667	.992972	.013331
.05	.995407	.994564	.993717	.992864	.992005	.991139	.016663
.06	.994391	.993381	.992365	.991342	.990313	.989274	.019993
.07	.993342	.992164	.990980	.989789	.988589	.987380	.023322
.08	.992261	.990916	.989565	.988205	.986835	.985455	.026650
.09	.991148	.989636	.988117	.986589	.985051	.983500	.029976
.10	.990002	.988324	.986638	.984942	.983235	.981515	.033300
.11	.988824	.986980	.985128	.983265	.981389	.979499	.036622
.12	.987614	.985605	.983586	.981556	.979513	.977454	.039942
.13	.986373	.984197	.982013	.979816	.977606	.975380	.043260
.14	.985099	.982758	.980408	.978046	.975670	.973275	.046575
.15	.983793	.981288	.978773	.976246	.973703	.971142	.049888
.16	.982455	.979786	.977107	.974414	.971706	.968979	.053197
.17	.981086	.978253	.975410	.972553	.969679	.966786	.056503
.18	.979685	.976689	.973682	.970661	.967623	.964565	.059806
.19	.978252	.975093	.971923	.968739	.965537	.962314	.063105
.20	.976788	.973467	.970134	.966787	.963422	.960035	.066400
.21	.975293	.971809	.968315	.964805	.961277	.957727	.069692
.22	.973766	.970121	.966465	.962793	.959103	.955391	.072979
.23	.972208	.968402	.964584	.960752	.956900	.953026	.076262
.24	.970619	.966652	.962674	.958681	.954668	.950633	.079540
.25	.968999	.964872	.960734	.956580	.952408	.948211	.082814
.26	.967348	.963061	.958763	.954451	.950118	.945762	.086082
.27	.965666	.961220	.956763	.952292	.947800	.943284	.089346
.28	.963954	.959349	.954734	.950104	.945454	.940779	.092604
.29	.962211	.957447	.952674	.947887	.943079	.938247	.095856
.30	.960437	.955516	.950586	.945641	.940676	.935687	.099103
.31	.958633	.953555	.948468	.943366	.938245	.933099	.102344
.32	.956798	.951564	.946321	.941063	.935787	.930485	.105578
.33	.954934	.949543	.944144	.938732	.933300	.927843	.108807
.34	.953039	.947493	.941939	.936372	.930786	.925175	.112029
.35	.951114	.945413	.939705	.933984	.928245	.922480	.115244
.36	.949160	.943304	.937443	.931568	.925676	.919759	.118452
.37	.947175	.941166	.935151	.929125	.923080	.917011	.121653
.38	.945161	.938999	.932832	.926653	.920457	.914237	.124847
.39	.943118	.936803	.930484	.924154	.917807	.911437	.128033
.40	.941045	.934578	.928108	.921628	.915131	.908611	.131212
.41	.938943	.932325	.925704	.919074	.912428	.905759	.134383
.42	.936811	.930043	.923272	.916493	.909698	.902882	.137546
.43	.934651	.927733	.920813	.913885	.906943	.899979	.140701
.44	.932462	.925394	.918326	.911251	.904161	.897051	.143847
.45	.930244	.923027	.915811	.908589	.901354	.894098	.146984
.46	.927997	.920633	.913270	.905902	.898521	.891120	.150113
.47	.925722	.918210	.910701	.903187	.895662	.888117	.153233
.48	.923419	.915760	.908105	.900447	.892778	.885090	.156344
.49	.921087	.913282	.905483	.897681	.889869	.882039	.159445
.50	.918727	.910777	.902833	.894888	.886934	.878963	.162537



Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$S(y)$
.50	.918727	.910777	.902833	.894888	.886934	.878963	.162537
.51	.916340	.908245	.900158	.892070	.883975	.875864	.165619
.52	.913924	.905685	.897456	.889227	.880991	.872740	.168691
.53	.911481	.903099	.894727	.886358	.877982	.869593	.171754
.54	.909010	.900486	.891973	.883464	.874950	.866422	.174806
.55	.906512	.897846	.889193	.880544	.871892	.863228	.177847
.56	.903987	.895180	.886387	.877600	.868811	.860011	.180878
.57	.901434	.892487	.883556	.874632	.865700	.856771	.183898
.58	.898855	.889768	.880699	.871638	.862578	.853509	.186907
.59	.896249	.887023	.877817	.868621	.859426	.850223	.189905
.60	.893616	.884253	.874910	.865579	.856250	.846916	.192892
.61	.890957	.881456	.871978	.862513	.853052	.843586	.195867
.62	.888272	.878634	.869021	.859423	.849830	.840234	.198831
.63	.885560	.875787	.866040	.856310	.846586	.836861	.201782
.64	.882822	.872915	.863035	.853173	.843320	.833465	.204722
.65	.880059	.870017	.860005	.850013	.840031	.830049	.207650
.66	.877270	.867095	.856951	.846829	.836719	.826611	.210565
.67	.874455	.864148	.853874	.843623	.833386	.823152	.213467
.68	.871615	.861176	.850773	.840394	.830031	.819673	.216357
.69	.868750	.858181	.847648	.837143	.826654	.816173	.219234
.70	.865860	.855161	.844501	.833869	.823256	.812652	.222098
.71	.862945	.852117	.841330	.830573	.819837	.809111	.224949
.72	.860005	.849049	.838136	.827255	.816397	.805550	.227787
.73	.857041	.845957	.834919	.823916	.812936	.801970	.230610
.74	.854052	.842843	.831680	.820554	.809454	.798370	.233421
.75	.851040	.839705	.828419	.817172	.805952	.794750	.236217
.76	.848003	.836543	.825135	.813768	.802430	.791111	.238999
.77	.844943	.833359	.821830	.810343	.798888	.787454	.241768
.78	.841859	.830152	.818502	.806897	.795325	.783777	.244521
.79	.838751	.826923	.815153	.803430	.791744	.780082	.247261
.80	.835621	.823671	.811783	.799944	.788143	.776368	.249986
.81	.832467	.820398	.808391	.796437	.784522	.772637	.252695
.82	.829290	.817102	.804979	.792910	.780883	.768887	.255390
.83	.826091	.813784	.801545	.789363	.777225	.765120	.258070
.84	.822869	.810445	.798092	.785796	.773548	.761335	.260735
.85	.819625	.807085	.794617	.782211	.769853	.757533	.263384
.86	.816359	.803703	.791123	.778606	.766140	.753714	.266017
.87	.813070	.800300	.787608	.774982	.762409	.749878	.268635
.88	.809760	.796877	.784074	.771339	.758660	.746025	.271237
.89	.806429	.793433	.780520	.767677	.754894	.742156	.273823
.90	.803076	.789968	.776946	.763998	.751110	.738271	.276393
.91	.799702	.786484	.773354	.760300	.747309	.734370	.278946
.92	.796307	.782979	.769742	.756584	.743492	.730453	.281483
.93	.792891	.779455	.766112	.752850	.739657	.726520	.284003
.94	.789454	.775911	.762463	.749099	.735807	.722572	.286507
.95	.785998	.772347	.758796	.745331	.731940	.718609	.288993
.96	.782521	.768765	.755111	.741546	.728057	.714631	.291463
.97	.779024	.765163	.751407	.737743	.724158	.710639	.293916
.98	.775507	.761543	.747686	.733924	.720244	.706632	.296351
.99	.771971	.757904	.743948	.730089	.716314	.702611	.298769
1.00	.768415	.754247	.740192	.726237	.712369	.698575	.301169

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$S(y)$
1.00	.768415	.754247	.740192	.726237	.712369	.698575	.301169
1.01	.764840	.750571	.736419	.722370	.708410	.694527	.303551
1.02	.761247	.746878	.732629	.718486	.704436	.690464	.305916
1.03	.757634	.743167	.728823	.714587	.700447	.686388	.308262
1.04	.754003	.739439	.725000	.710673	.696444	.682300	.310591
1.05	.750354	.735693	.721161	.706744	.692427	.678198	.312901
1.06	.746686	.731930	.717306	.702799	.688396	.674084	.315193
1.07	.743001	.728151	.713435	.698840	.684352	.669957	.317467
1.08	.739298	.724354	.709549	.694867	.680295	.665818	.319722
1.09	.735577	.720542	.705647	.690879	.676224	.661667	.321958
1.10	.731839	.716713	.701731	.686878	.672141	.657505	.324175
1.11	.728084	.712868	.697799	.682863	.668044	.653331	.326373
1.12	.724313	.709007	.693853	.678834	.663936	.649146	.328552
1.13	.720524	.705131	.689892	.674791	.659815	.644950	.330712
1.14	.716720	.701240	.685917	.670736	.655683	.640743	.332853
1.15	.712899	.697333	.681928	.666668	.651538	.636525	.334974
1.16	.709062	.693412	.677925	.662587	.647383	.632298	.337076
1.17	.705209	.689476	.673909	.658494	.643216	.628060	.339158
1.18	.701341	.685525	.669880	.654389	.639038	.623812	.341220
1.19	.697458	.681560	.665837	.650271	.634849	.619555	.343262
1.20	.693559	.677582	.661781	.646142	.630649	.615288	.345285
1.21	.689646	.673589	.657713	.642002	.626440	.611012	.347287
1.22	.685718	.669583	.653633	.637850	.622220	.606728	.349269
1.23	.681775	.665564	.649540	.633687	.617990	.602435	.351230
1.24	.677819	.661532	.645436	.629514	.613751	.598133	.353172
1.25	.673848	.657487	.641319	.625330	.609503	.593823	.355092
1.26	.669864	.653429	.637192	.621135	.605245	.589505	.356992
1.27	.665866	.649359	.633053	.616931	.600978	.585180	.358872
1.28	.661855	.645276	.628903	.612717	.596703	.580847	.360730
1.29	.657831	.641182	.624742	.608493	.592419	.576506	.362568
1.30	.653794	.637076	.620571	.604260	.588127	.572159	.364384
1.31	.649744	.632959	.616389	.600017	.583828	.567805	.366180
1.32	.645682	.628830	.612197	.595766	.579520	.563445	.367954
1.33	.641608	.624691	.607996	.591506	.575205	.559078	.369707
1.34	.637522	.620540	.603785	.587237	.570883	.554705	.371439
1.35	.633424	.616380	.599564	.582961	.566553	.550326	.373149
1.36	.629315	.612208	.595334	.578676	.562217	.545942	.374838
1.37	.625195	.608027	.591096	.574384	.557875	.541552	.376505
1.38	.621064	.603836	.586849	.570084	.553526	.537158	.378150
1.39	.616922	.599635	.582593	.565777	.549171	.532758	.379774
1.40	.612769	.595425	.578329	.561463	.544810	.528354	.381375
1.41	.608606	.591206	.574058	.557142	.540443	.523945	.382955
1.42	.604433	.586978	.569778	.552815	.536072	.519533	.384513
1.43	.600251	.582742	.565491	.548481	.531695	.515116	.386048
1.44	.596059	.578497	.561197	.544142	.527313	.510696	.387562
1.45	.591857	.574243	.556896	.539796	.522927	.506272	.389053
1.46	.587646	.569982	.552588	.535445	.518536	.501845	.390522
1.47	.583427	.565713	.548273	.531088	.514141	.497415	.391968
1.48	.579198	.561437	.543953	.526727	.509742	.492983	.393392
1.49	.574962	.557153	.539626	.522360	.505340	.488548	.394794
1.50	.570717	.552863	.535293	.517989	.500934	.484110	.396173

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$S(y)$
1.50	.570717	.552863	.535293	.517989	.500934	.484110	.396173
1.51	.566464	.548565	.530955	.513614	.496525	.479671	.397529
1.52	.562204	.544262	.526611	.509234	.492113	.475230	.398863
1.53	.557936	.539951	.522263	.504851	.487698	.470787	.400174
1.54	.553661	.535635	.517909	.500463	.483281	.466343	.401462
1.55	.549379	.531313	.513551	.496073	.478861	.461898	.402727
1.56	.545090	.526986	.509188	.491679	.474439	.457453	.403969
1.57	.540795	.522653	.504822	.487282	.470016	.453006	.405189
1.58	.536493	.518315	.500451	.482882	.465591	.448559	.406385
1.59	.532186	.513972	.496077	.478480	.461165	.444113	.407558
1.60	.527873	.509625	.491699	.474076	.456737	.439666	.408708
1.61	.523554	.505273	.487318	.469670	.452309	.435219	.409835
1.62	.519229	.500917	.482934	.465261	.447880	.430774	.410939
1.63	.514900	.496557	.478547	.460852	.443451	.426328	.412019
1.64	.510566	.492193	.474158	.456441	.439022	.421884	.413076
1.65	.506227	.487826	.469767	.452029	.434593	.417442	.414110
1.66	.501884	.483456	.465374	.447616	.430164	.413001	.415120
1.67	.497537	.479083	.460978	.443202	.425736	.408561	.416107
1.68	.493186	.474707	.456582	.438788	.421308	.404124	.417071
1.69	.488831	.470329	.452184	.434374	.416882	.399688	.418011
1.70	.484473	.465949	.447785	.429961	.412457	.395256	.418927
1.71	.480111	.461566	.443385	.425547	.408033	.390825	.419820
1.72	.475747	.457182	.438984	.421134	.403611	.386398	.420690
1.73	.471380	.452796	.434583	.416722	.399191	.381974	.421536
1.74	.467011	.448409	.430182	.412311	.394774	.377553	.422358
1.75	.462639	.444021	.425782	.407901	.390358	.373136	.423156
1.76	.458265	.439632	.421381	.403492	.385946	.368723	.423931
1.77	.453890	.435242	.416981	.399086	.381536	.364313	.424682
1.78	.449513	.430852	.412582	.394681	.377129	.359908	.425410
1.79	.445135	.426462	.408184	.390278	.372726	.355507	.426114
1.80	.440756	.422072	.403787	.385878	.368326	.351112	.426794
1.81	.436376	.417683	.399392	.381481	.363930	.346721	.427450
1.82	.431995	.413294	.394998	.377086	.359538	.342335	.428082
1.83	.427614	.408906	.390607	.372695	.355151	.337954	.428691
1.84	.423233	.404519	.386217	.368307	.350767	.333580	.429276
1.85	.418852	.400133	.381830	.363922	.346389	.329211	.429837
1.86	.414472	.395749	.377446	.359542	.342015	.324848	.430374
1.87	.410092	.391366	.373065	.355165	.337647	.320491	.430888
1.88	.405713	.386985	.368686	.350793	.333284	.316141	.431377
1.89	.401335	.382607	.364311	.346425	.328926	.311797	.431843
1.90	.396958	.378231	.359940	.342061	.324575	.307461	.432285
1.91	.392583	.373858	.355572	.337703	.320229	.303131	.432704
1.92	.388210	.369488	.351209	.333350	.315890	.298809	.433098
1.93	.383838	.365121	.346850	.329002	.311557	.294495	.433469
1.94	.379469	.360757	.342495	.324660	.307231	.290188	.433816
1.95	.375102	.356397	.338145	.320324	.302912	.285889	.434139
1.96	.370738	.352040	.333800	.315993	.298600	.281599	.434438
1.97	.366377	.347688	.329460	.311669	.294295	.277317	.434714
1.98	.362019	.343340	.325125	.307352	.289998	.273043	.434965
1.99	.357665	.338996	.320796	.303041	.285708	.268779	.435193
2.00	.353314	.334658	.316473	.298737	.281427	.264523	.435398

Table of  $Q(y, \varphi)$  and  $S(y)$

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$S(y)$
2.00	.353314	.334658	.316473	.298737	.281427	.264523	.435398
2.01	.348967	.330324	.312156	.294440	.277154	.260277	.435578
2.02	.344624	.325995	.307845	.290151	.272889	.256040	.435735
2.03	.340285	.321672	.303541	.285869	.268633	.251813	.435869
2.04	.335951	.317354	.299243	.281595	.264386	.247596	.435978
2.05	.331621	.313042	.294953	.277329	.260147	.243389	.436065
2.06	.327297	.308736	.290669	.273071	.255918	.239192	.436127
2.07	.322977	.304437	.286393	.268821	.251699	.235006	.436166
2.08	.318663	.300144	.282124	.264580	.247489	.230830	.436182
2.09	.314355	.295858	.277864	.260348	.243289	.226665	.436173
2.10	.310053	.291578	.273611	.256125	.239099	.222512	.436142
2.11	.305756	.287306	.269366	.251912	.234920	.218370	.436087
2.12	.301466	.283041	.265130	.247707	.230751	.214239	.436009
2.13	.297183	.278784	.260902	.243513	.226592	.210120	.435907
2.14	.292906	.274535	.256684	.239328	.222445	.206012	.435782
2.15	.288636	.270293	.252474	.235154	.218308	.201917	.435634
2.16	.284373	.266060	.248274	.230989	.214183	.197834	.435462
2.17	.280118	.261835	.244083	.226835	.210070	.193764	.435268
2.18	.275870	.257619	.239902	.222692	.205968	.189706	.435050
2.19	.271630	.253412	.235730	.218560	.201878	.185661	.434809
2.20	.267399	.249214	.231569	.214439	.197800	.181630	.434545
2.21	.263175	.245025	.227418	.210329	.193734	.177611	.434258
2.22	.258960	.240846	.223278	.206231	.189681	.173606	.433948
2.23	.254753	.236676	.219148	.202144	.185640	.169614	.433616
2.24	.250556	.232516	.215029	.198069	.181612	.165636	.433260
2.25	.246367	.228366	.210922	.194007	.177598	.161672	.432882
2.26	.242188	.224227	.206825	.189956	.173596	.157723	.432481
2.27	.238018	.220098	.202740	.185918	.169608	.153787	.432057
2.28	.233858	.215980	.198667	.181893	.165634	.149866	.431611
2.29	.229708	.211873	.194606	.177881	.161673	.145960	.431142
2.30	.225568	.207777	.190557	.173881	.157726	.142069	.430650
2.31	.221439	.203692	.186520	.169895	.153794	.138193	.430137
2.32	.217320	.199619	.182495	.165922	.149875	.134332	.429600
2.33	.213211	.195557	.178484	.161963	.145972	.130486	.429042
2.34	.209114	.191508	.174485	.158018	.142082	.126656	.428461
2.35	.205028	.187470	.170499	.154086	.138208	.122841	.427859
2.36	.200953	.183445	.166526	.150169	.134349	.119043	.427234
2.37	.196889	.179432	.162567	.146266	.130505	.115260	.426587
2.38	.192837	.175432	.158621	.142378	.126676	.111494	.425918
2.39	.188798	.171445	.154689	.138504	.122863	.107744	.425228
2.40	.184770	.167471	.150772	.134645	.119066	.104011	.424515
2.41	.180755	.163510	.146868	.130801	.115285	.100294	.423781
2.42	.176752	.159562	.142978	.126973	.111519	.096595	.423026
2.43	.172762	.155628	.139104	.123159	.107770	.092912	.422248
2.44	.168784	.151708	.135243	.119362	.104037	.089247	.421450
2.45	.164820	.147802	.131398	.115580	.100321	.085599	.420630
2.46	.160869	.143910	.127568	.111813	.096621	.081968	.419789
2.47	.156932	.140033	.123753	.108063	.092939	.078355	.418926
2.48	.153008	.136170	.119953	.104330	.089273	.074760	.418043
2.49	.149098	.132321	.116169	.100612	.085625	.071183	.417138
2.50	.145202	.128488	.112401	.096911	.081994	.067624	.416213

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$S(y)$
2.50	.145202	.128488	.112401	.096911	.081994	.067624	.416213
2.51	.141320	.124669	.108648	.093227	.078380	.064083	.415267
2.52	.137452	.120866	.104912	.089560	.074784	.060561	.414300
2.53	.133599	.117078	.101191	.085910	.071206	.057057	.413312
2.54	.129761	.113306	.097488	.082276	.067646	.053572	.412304
2.55	.125938	.109550	.093800	.078661	.064104	.050105	.411276
2.56	.122129	.105809	.090130	.075063	.060580	.046658	.410227
2.57	.118336	.102085	.086476	.071482	.057075	.043230	.409158
2.58	.114559	.098376	.082840	.067919	.053588	.039821	.408069
2.59	.110797	.094685	.079220	.064374	.050120	.036431	.406959
2.60	.107050	.091009	.075618	.060848	.046670	.033061	.405830
2.61	.103320	.087351	.072034	.057339	.043240	.029711	.404681
2.62	.099606	.083709	.068467	.053849	.039829	.026380	.403513
2.63	.095908	.080085	.064918	.050378	.036437	.023070	.402324
2.64	.092226	.076477	.061387	.046925	.033064	.019779	.401117
2.65	.088561	.072887	.057874	.043491	.029711	.016509	.399889
2.66	.084913	.069315	.054380	.040076	.026378	.013259	.398643
2.67	.081282	.065760	.050903	.036680	.023064	.010029	.397377
2.68	.077667	.062223	.047446	.033304	.019770	.006820	.396093
2.69	.074070	.058704	.044007	.029947	.016497	.003631	.394789
2.70	.070491	.055203	.040586	.026609	.013243	.000464	.393467
2.71	.066929	.051721	.037185	.023291	.010010	-.002683	.392126
2.72	.063384	.048257	.033803	.019993	.006797	-.005809	.390766
2.73	.059858	.044811	.030441	.016715	.003605	-.008914	.389388
2.74	.056349	.041384	.027097	.013456	.000433	-.011997	.387992
2.75	.052858	.037976	.023773	.010218	-.002717	-.015059	.386578
2.76	.049386	.034587	.020469	.007000	-.005847	-.018100	.385145
2.77	.045933	.031217	.017185	.003803	-.008956	-.021119	.383694
2.78	.042497	.027867	.013920	.000626	-.012044	-.024116	.382226
2.79	.039081	.024536	.010676	-.002530	-.015111	-.027092	.380740
2.80	.035683	.021224	.007452	-.005665	-.018156	-.030046	.379236
2.81	.032305	.017932	.004248	-.008780	-.021180	-.032977	.377715
2.82	.028946	.014660	.001064	-.011873	-.024182	-.035887	.376176
2.83	.025605	.011408	-.002099	-.014946	-.027162	-.038775	.374621
2.84	.022285	.008175	-.005241	-.017997	-.030121	-.041640	.373048
2.85	.018984	.004963	-.008363	-.021027	-.033058	-.044483	.371458
2.86	.015702	.001772	-.011463	-.024035	-.035973	-.047303	.369852
2.87	.012440	-.001400	-.014543	-.027022	-.038866	-.050101	.368229
2.88	.009199	-.004550	-.017601	-.029987	-.041736	-.052876	.366589
2.89	.005977	-.007680	-.020639	-.032930	-.044585	-.055629	.364934
2.90	.002776	-.010789	-.023654	-.035852	-.047411	-.058358	.363261
2.91	-.000405	-.013878	-.026649	-.038751	-.050214	-.061065	.361573
2.92	-.003566	-.016945	-.029622	-.041628	-.052995	-.063749	.359869
2.93	-.006706	-.019991	-.032573	-.044484	-.055754	-.066410	.358149
2.94	-.009825	-.023016	-.035502	-.047317	-.058489	-.069047	.356413
2.95	-.012924	-.026020	-.038410	-.050127	-.061202	-.071662	.354662
2.96	-.016002	-.029002	-.041295	-.052915	-.063892	-.074253	.352895
2.97	-.019058	-.031962	-.044159	-.055681	-.066559	-.076820	.351113
2.98	-.022094	-.034901	-.047000	-.058424	-.069203	-.079365	.349316
2.99	-.025108	-.037818	-.049819	-.061144	-.071824	-.081886	.347504
3.00	-.028101	-.040713	-.052615	-.063841	-.074421	-.084383	.345677

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$S(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	.998289	.998113	.997935	.997755	.997572	.997387	.003333
.02	.996548	.996196	.995841	.995481	.995116	.994746	.006666
.03	.994775	.994249	.993717	.993178	.992632	.992078	.009999
.04	.992972	.992271	.991563	.990846	.990119	.989382	.013331
.05	.991139	.990264	.989379	.988485	.987578	.986659	.016663
.06	.989274	.988226	.987167	.986095	.985009	.983909	.019993
.07	.987380	.986159	.984925	.983677	.982413	.981131	.023322
.08	.985455	.984062	.982654	.981230	.979789	.978327	.026650
.09	.983500	.981935	.980354	.978755	.977137	.975496	.029976
.10	.981515	.979779	.978025	.976252	.974458	.972639	.033300
.11	.979499	.977593	.975668	.973721	.971751	.969755	.036622
.12	.977454	.975378	.973282	.971163	.969018	.966845	.039942
.13	.975380	.973134	.970867	.968576	.966258	.963909	.043260
.14	.973275	.970861	.968424	.965962	.963471	.960948	.046575
.15	.971142	.968560	.965954	.963320	.960657	.957960	.049888
.16	.968979	.966229	.963455	.960652	.957817	.954947	.053197
.17	.966786	.963870	.960928	.957956	.954951	.951908	.056503
.18	.964565	.961483	.958373	.955233	.952058	.948845	.059806
.19	.962314	.959067	.955791	.952484	.949140	.945756	.063105
.20	.960035	.956623	.953182	.949707	.946196	.942642	.066400
.21	.957727	.954151	.950545	.946905	.943226	.939504	.069692
.22	.955391	.951651	.947881	.944076	.940231	.936341	.072979
.23	.953026	.949124	.945190	.941221	.937210	.933154	.076262
.24	.950633	.946569	.942473	.938339	.934164	.929942	.079540
.25	.948211	.943986	.939728	.935432	.931094	.926707	.082814
.26	.945762	.941376	.936957	.932500	.927998	.923447	.086082
.27	.943284	.938739	.934160	.929542	.924878	.920165	.089346
.28	.940779	.936075	.931337	.926558	.921734	.916858	.092604
.29	.938247	.933385	.928487	.923549	.918565	.913529	.095856
.30	.935687	.930667	.925612	.920515	.915372	.910176	.099103
.31	.933099	.927923	.922711	.917457	.912156	.906800	.102344
.32	.930485	.925153	.919785	.914374	.908916	.903402	.105578
.33	.927843	.922356	.916833	.911267	.905652	.899981	.108807
.34	.925175	.919534	.913856	.908135	.902364	.896538	.112029
.35	.922480	.916685	.910854	.904979	.899054	.893073	.115244
.36	.919759	.913811	.907827	.901799	.895721	.889586	.118452
.37	.917011	.910911	.904775	.898595	.892365	.886077	.121653
.38	.914237	.907986	.901699	.895368	.888986	.882546	.124847
.39	.911437	.905036	.898598	.892117	.885585	.878994	.128033
.40	.908611	.902061	.895474	.888843	.882161	.875421	.131212
.41	.905759	.899060	.892325	.885546	.878716	.871827	.134383
.42	.902882	.896035	.889153	.882226	.875249	.868212	.137546
.43	.899979	.892986	.885957	.878884	.871760	.864577	.140701
.44	.897051	.889912	.882737	.875519	.868250	.860921	.143847
.45	.894098	.886814	.879494	.872132	.864718	.857245	.146984
.46	.891120	.883692	.876229	.868722	.861165	.853549	.150113
.47	.888117	.880546	.872940	.865291	.857592	.849833	.153233
.48	.885090	.877377	.869629	.861838	.853998	.846098	.156344
.49	.882039	.874184	.866295	.858364	.850383	.842344	.159445
.50	.878963	.870967	.862938	.854868	.846748	.838570	.162537

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$S(y)$
.50	.878963	.870967	.862938	.854868	.846748	.838570	.162537
.51	.875864	.867728	.859560	.851351	.843093	.834777	.165619
.52	.872740	.864466	.856160	.847814	.839419	.830966	.168691
.53	.869593	.861181	.852738	.844255	.835724	.827136	.171754
.54	.866422	.857873	.849294	.840676	.832010	.823287	.174806
.55	.863228	.854543	.845829	.837077	.828277	.819421	.177847
.56	.860011	.851191	.842343	.833457	.824525	.815537	.180878
.57	.856771	.847817	.838836	.829818	.820754	.811635	.183898
.58	.853509	.844422	.835308	.826159	.816965	.807716	.186907
.59	.850223	.841004	.831760	.822480	.813157	.803779	.189905
.60	.846916	.837566	.828191	.818783	.809331	.799825	.192892
.61	.843586	.834106	.824602	.815066	.805486	.795855	.195867
.62	.840234	.830625	.820993	.811330	.801625	.791868	.198831
.63	.836861	.827123	.817365	.807575	.797745	.787865	.201782
.64	.833465	.823601	.813716	.803802	.793848	.783845	.204722
.65	.830049	.820058	.810049	.800011	.789935	.779809	.207650
.66	.826611	.816495	.806362	.796202	.786004	.775758	.210565
.67	.823152	.812913	.802657	.792375	.782056	.771691	.213467
.68	.819673	.809310	.798932	.788530	.778092	.767609	.216357
.69	.816173	.805688	.795189	.784668	.774112	.763512	.219234
.70	.812652	.802046	.791428	.780788	.770116	.759401	.222098
.71	.809111	.798385	.787649	.776892	.766104	.755274	.224949
.72	.805550	.794706	.783852	.772979	.762076	.751133	.227787
.73	.801970	.791007	.780037	.769049	.758033	.746978	.230610
.74	.798370	.787290	.776205	.765103	.753975	.742809	.233421
.75	.794750	.783555	.772355	.761141	.749902	.738627	.236217
.76	.791111	.779801	.768489	.757163	.745814	.734431	.238999
.77	.787454	.776030	.764605	.753170	.741712	.730221	.241768
.78	.783777	.772241	.760706	.749161	.737596	.725999	.244521
.79	.780082	.768434	.756789	.745137	.733465	.721764	.247261
.80	.776368	.764610	.752857	.741097	.729321	.717516	.249986
.81	.772637	.760769	.748908	.737043	.725163	.713256	.252695
.82	.768887	.756911	.744944	.732975	.720992	.708984	.255390
.83	.765120	.753037	.740965	.728892	.716807	.704700	.258070
.84	.761335	.749146	.736970	.724795	.712610	.700404	.260735
.85	.757533	.745239	.732960	.720684	.708400	.696097	.263384
.86	.753714	.741316	.728935	.716560	.704178	.691779	.266017
.87	.749878	.737378	.724896	.712422	.699943	.687450	.268635
.88	.746025	.733423	.720842	.708271	.695697	.683110	.271237
.89	.742156	.729454	.716774	.704107	.691439	.678759	.273823
.90	.738271	.725469	.712693	.699930	.687169	.674399	.276393
.91	.734370	.721470	.708597	.695741	.682888	.670028	.278946
.92	.730453	.717456	.704488	.691539	.678596	.665648	.281483
.93	.726520	.713427	.700366	.687325	.674293	.661258	.284003
.94	.722572	.709384	.696231	.683100	.669980	.656858	.286507
.95	.718609	.705328	.692083	.678863	.665656	.652450	.288993
.96	.714631	.701257	.687922	.674615	.661322	.648033	.291463
.97	.710639	.697173	.683750	.670355	.656978	.643607	.293916
.98	.706632	.693076	.679565	.666085	.652625	.639173	.296351
.99	.702611	.688966	.675368	.661804	.648262	.634731	.298769
1.00	.698575	.684843	.671159	.657512	.643890	.630281	.301169

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$S(y)$
1.00	.698575	.684843	.671159	.657512	.643890	.630281	.301169
1.01	.694527	.680707	.666939	.653211	.639509	.625823	.303551
1.02	.690464	.676559	.662708	.648899	.635120	.621357	.305916
1.03	.686388	.672399	.658466	.644578	.630722	.616885	.308262
1.04	.682300	.668227	.654214	.640247	.626315	.612406	.310591
1.05	.678198	.664043	.649950	.635907	.621901	.607920	.312901
1.06	.674084	.659848	.645677	.631558	.617479	.603427	.315193
1.07	.669957	.655642	.641394	.627200	.613049	.598928	.317467
1.08	.665818	.651424	.637100	.622834	.608612	.594424	.319722
1.09	.661667	.647196	.632798	.618459	.604169	.589913	.321958
1.10	.657505	.642958	.628486	.614077	.599718	.585397	.324175
1.11	.653331	.638709	.624165	.609686	.595261	.580876	.326373
1.12	.649146	.634450	.619835	.605288	.590797	.576349	.328552
1.13	.644950	.630181	.615496	.600883	.586327	.571818	.330712
1.14	.640743	.625903	.611149	.596470	.581852	.567283	.332853
1.15	.636525	.621615	.606794	.592050	.577371	.562742	.334974
1.16	.632298	.617318	.602432	.587624	.572884	.558198	.337076
1.17	.628060	.613013	.598061	.583192	.568392	.553650	.339158
1.18	.623812	.608698	.593683	.578753	.563896	.549099	.341220
1.19	.619555	.604376	.589298	.574308	.559395	.544544	.343262
1.20	.615288	.600045	.584906	.569858	.554889	.539986	.345285
1.21	.611012	.595706	.580507	.565402	.550379	.535424	.347287
1.22	.606728	.591360	.576102	.560941	.545865	.530861	.349269
1.23	.602435	.587006	.571690	.556475	.541348	.526295	.351230
1.24	.598133	.582645	.567273	.552005	.536826	.521726	.353172
1.25	.593823	.578277	.562850	.547529	.532302	.517156	.355092
1.26	.589505	.573902	.558421	.543050	.527775	.512584	.356992
1.27	.585180	.569521	.553987	.538566	.523245	.508010	.358872
1.28	.580847	.565133	.549548	.534079	.518712	.503436	.360730
1.29	.576506	.560739	.545104	.529588	.514177	.498860	.362568
1.30	.572159	.556340	.540656	.525094	.509640	.494283	.364384
1.31	.567805	.551935	.536203	.520597	.505102	.489706	.366180
1.32	.563445	.547525	.531747	.516096	.500561	.485129	.367954
1.33	.559078	.543109	.527286	.511594	.496020	.480551	.369707
1.34	.554705	.538689	.522822	.507089	.491477	.475974	.371439
1.35	.550326	.534265	.518354	.502581	.486933	.471397	.373149
1.36	.545942	.529835	.513883	.498072	.482389	.466821	.374838
1.37	.541552	.525402	.509410	.493561	.477844	.462245	.376505
1.38	.537158	.520965	.504933	.489049	.473299	.457671	.378150
1.39	.532758	.516524	.500455	.484536	.468754	.453098	.379774
1.40	.528354	.512080	.495974	.480022	.464210	.448526	.381375
1.41	.523945	.507633	.491491	.475506	.459666	.443956	.382955
1.42	.519533	.503182	.487006	.470991	.455123	.439389	.384513
1.43	.515116	.498729	.482520	.466475	.450580	.434823	.386048
1.44	.510696	.494274	.478033	.461959	.446039	.430260	.387562
1.45	.506272	.489816	.473545	.457444	.441500	.425700	.389053
1.46	.501845	.485357	.469056	.452929	.436962	.421143	.390522
1.47	.497415	.480895	.464566	.448414	.432426	.416589	.391968
1.48	.492983	.476432	.460076	.443901	.427892	.412038	.393392
1.49	.488548	.471968	.455586	.439388	.423361	.407491	.394794
1.50	.484110	.467503	.451097	.434877	.418832	.402948	.396173



Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$S(y)$
1.50	.484110	.467503	.451097	.434877	.418832	.402948	.396173
1.51	.479671	.463037	.446607	.430368	.414306	.398408	.397529
1.52	.475230	.458570	.442118	.425861	.409783	.393873	.398863
1.53	.470787	.454103	.437631	.421355	.405264	.389343	.400174
1.54	.466343	.449636	.433144	.416852	.400748	.384817	.401462
1.55	.461898	.445169	.428658	.412352	.396235	.380297	.402727
1.56	.457453	.440703	.424175	.407854	.391727	.375781	.403969
1.57	.453006	.436237	.419693	.403359	.387223	.371271	.405189
1.58	.448559	.431772	.415212	.398868	.382723	.366767	.406385
1.59	.444113	.427308	.410735	.394379	.378228	.362268	.407558
1.60	.439666	.422845	.406259	.389895	.373738	.357776	.408708
1.61	.435219	.418384	.401787	.385415	.369253	.353290	.409835
1.62	.430774	.413924	.397317	.380938	.364773	.348810	.410939
1.63	.426328	.409467	.392851	.376466	.360299	.344337	.412019
1.64	.421884	.405012	.388388	.371999	.355831	.339871	.413076
1.65	.417442	.400559	.383929	.367536	.351369	.335413	.414110
1.66	.413001	.396109	.379473	.363079	.346913	.330961	.415120
1.67	.408561	.391662	.375022	.358627	.342463	.326518	.416107
1.68	.404124	.387218	.370575	.354180	.338020	.322082	.417071
1.69	.399688	.382777	.366132	.349739	.333584	.317654	.418011
1.70	.395256	.378340	.361694	.345304	.329155	.313234	.418927
1.71	.390825	.373907	.357261	.340875	.324733	.308823	.419820
1.72	.386398	.369478	.352834	.336452	.320319	.304421	.420690
1.73	.381974	.365053	.348412	.332036	.315912	.300027	.421536
1.74	.377553	.360632	.343995	.327627	.311513	.295643	.422358
1.75	.373136	.356217	.339585	.323225	.307123	.291267	.423156
1.76	.368723	.351806	.335180	.318830	.302741	.286902	.423931
1.77	.364313	.347401	.330782	.314442	.298368	.282546	.424682
1.78	.359908	.343000	.326390	.310062	.294003	.278200	.425410
1.79	.355507	.338606	.322005	.305690	.289647	.273864	.426114
1.80	.351112	.334217	.317627	.301326	.285301	.269538	.426794
1.81	.346721	.329835	.313257	.296971	.280964	.265223	.427450
1.82	.342335	.325459	.308893	.292624	.276637	.260918	.428082
1.83	.337954	.321089	.304538	.288286	.272319	.256625	.428691
1.84	.333580	.316726	.300190	.283956	.268012	.252343	.429276
1.85	.329211	.312370	.295850	.279636	.263714	.248072	.429837
1.86	.324848	.308021	.291518	.275325	.259428	.243812	.430374
1.87	.320491	.303679	.287195	.271024	.255151	.239565	.430888
1.88	.316141	.299345	.282881	.266733	.250886	.235329	.431377
1.89	.311797	.295019	.278575	.262451	.246632	.231105	.431843
1.90	.307461	.290701	.274279	.258180	.242389	.226894	.432285
1.91	.303131	.286391	.269992	.253919	.238157	.222695	.432704
1.92	.298809	.282090	.265714	.249668	.233937	.218509	.433098
1.93	.294495	.277797	.261447	.245429	.229729	.214335	.433469
1.94	.290188	.273513	.257189	.241200	.225533	.210175	.433816
1.95	.285889	.269238	.252941	.236983	.221350	.206028	.434139
1.96	.281599	.264972	.248704	.232777	.217178	.201895	.434438
1.97	.277317	.260716	.244477	.228583	.213020	.197775	.434714
1.98	.273043	.256470	.240261	.224400	.208874	.193669	.434965
1.99	.268779	.252233	.236056	.220229	.204741	.189576	.435193
2.00	.264523	.248007	.231862	.216071	.200621	.185498	.435398

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$S(y)$
2.00	.264523	.248007	.231862	.216071	.200621	.185498	.435398
2.01	.260277	.243791	.227679	.211925	.196514	.181435	.435578
2.02	.256040	.239586	.223508	.207791	.192422	.177386	.435735
2.03	.251813	.235391	.219348	.203670	.188342	.173351	.435869
2.04	.247596	.231207	.215201	.199563	.184277	.169332	.435978
2.05	.243389	.227034	.211066	.195468	.180226	.165328	.436065
2.06	.239192	.222873	.206943	.191386	.176189	.161339	.436127
2.07	.235006	.218723	.202832	.187318	.172167	.157365	.436166
2.08	.230830	.214584	.198734	.183264	.168159	.153407	.436182
2.09	.226665	.210458	.194649	.179224	.164166	.149464	.436173
2.10	.222512	.206344	.190578	.175197	.160188	.145538	.436142
2.11	.218370	.202242	.186519	.171185	.156226	.141627	.436087
2.12	.214239	.198152	.182474	.167188	.152278	.137733	.436009
2.13	.210120	.194076	.178443	.163204	.148346	.133856	.435907
2.14	.206012	.190012	.174425	.159236	.144430	.129994	.435782
2.15	.201917	.185961	.170421	.155283	.140530	.126150	.435634
2.16	.197834	.181923	.166432	.151344	.136646	.122323	.435462
2.17	.193764	.177899	.162457	.147421	.132777	.118512	.435268
2.18	.189706	.173888	.158496	.143514	.128926	.114719	.435050
2.19	.185661	.169892	.154551	.139622	.125090	.110943	.434809
2.20	.181630	.165909	.150620	.135746	.121272	.107185	.434545
2.21	.177611	.161940	.146704	.131885	.117470	.103444	.434258
2.22	.173606	.157986	.142803	.128041	.113685	.099722	.433948
2.23	.169614	.154046	.138918	.124214	.109918	.096017	.433616
2.24	.165636	.150121	.135049	.120402	.106167	.092330	.433260
2.25	.161672	.146211	.131195	.116608	.102435	.088662	.432882
2.26	.157723	.142316	.127357	.112830	.098720	.085012	.432481
2.27	.153787	.138436	.123535	.109069	.095022	.081381	.432057
2.28	.149866	.134571	.119730	.105325	.091343	.077769	.431611
2.29	.145960	.130722	.115941	.101599	.087681	.074175	.431142
2.30	.142069	.126889	.112168	.097890	.084038	.070600	.430650
2.31	.138193	.123072	.108413	.094198	.080413	.067045	.430137
2.32	.134332	.119271	.104674	.090524	.076807	.063509	.429600
2.33	.130486	.115486	.100952	.086869	.073220	.059992	.429042
2.34	.126656	.111717	.097248	.083231	.069651	.056495	.428461
2.35	.122841	.107965	.093561	.079611	.066101	.053017	.427859
2.36	.119043	.104230	.089891	.076010	.062570	.049559	.427234
2.37	.115260	.100511	.086239	.072427	.059059	.046122	.426587
2.38	.111494	.096810	.082605	.068863	.055567	.042704	.425918
2.39	.107744	.093126	.078989	.065317	.052094	.039307	.425228
2.40	.104011	.089459	.075391	.061791	.048641	.035929	.424515
2.41	.100294	.085810	.071812	.058283	.045208	.032573	.423781
2.42	.096595	.082178	.068251	.054795	.041795	.029237	.423026
2.43	.092912	.078565	.064708	.051326	.038401	.025921	.422248
2.44	.089247	.074969	.061184	.047876	.035028	.022627	.421450
2.45	.085599	.071391	.057680	.044446	.031675	.019353	.420630
2.46	.081968	.067832	.054194	.041036	.028343	.016101	.419789
2.47	.078355	.064291	.050727	.037645	.025031	.012869	.418926
2.48	.074760	.060769	.047279	.034275	.021740	.009659	.418043
2.49	.071183	.057265	.043851	.030925	.018469	.006471	.417138
2.50	.067624	.053780	.040443	.027595	.015219	.003303	.416213

Table of  $Q(x, \varphi)$  and  $S(y)$ 

$\varphi$ y	0.50	0.55	0.60	0.65	0.70	0.75	$S(y)$
2.50	.067624	.053780	.040443	.027595	.015219	.003303	.416213
2.51	.064083	.050314	.037054	.024285	.011991	.000158	.415267
2.52	.060561	.046867	.033685	.020996	.008783	-.002966	.414300
2.53	.057057	.043440	.030336	.017727	.005597	-.006068	.413312
2.54	.053572	.040032	.027007	.014479	.002432	-.009148	.412304
2.55	.050105	.036644	.023698	.011252	-.000711	-.012206	.411276
2.56	.046658	.033275	.020410	.008046	-.003833	-.015242	.410227
2.57	.043230	.029926	.017142	.004861	-.006934	-.018256	.409158
2.58	.039821	.026597	.013895	.001697	-.010012	-.021247	.408069
2.59	.036431	.023288	.010668	-.001445	-.013069	-.024216	.406959
2.60	.033061	.019999	.007462	-.004566	-.016103	-.027163	.405830
2.61	.029711	.016730	.004277	-.007666	-.019116	-.030087	.404681
2.62	.026380	.013482	.001113	-.010744	-.022106	-.032988	.403513
2.63	.023070	.010254	-.002029	-.013800	-.025074	-.035866	.402324
2.64	.019779	.007048	-.005151	-.016835	-.028020	-.038722	.401117
2.65	.016509	.003862	-.008251	-.019847	-.030943	-.041554	.399889
2.66	.013259	.000696	-.011330	-.022838	-.033844	-.044364	.398643
2.67	.010029	-.002448	-.014387	-.025806	-.036722	-.047150	.397377
2.68	.006820	-.005571	-.017422	-.028752	-.039577	-.049913	.396093
2.69	.003631	-.008673	-.020435	-.031676	-.042410	-.052653	.394789
2.70	.000464	-.011753	-.023427	-.034577	-.045220	-.055370	.393467
2.71	-.002683	-.014812	-.026396	-.037456	-.048006	-.058063	.392126
2.72	-.005809	-.017849	-.029344	-.040312	-.050770	-.060733	.390766
2.73	-.008914	-.020865	-.032269	-.043145	-.053510	-.063379	.389388
2.74	-.011997	-.023859	-.035172	-.045956	-.056227	-.066001	.387992
2.75	-.015059	-.026831	-.038053	-.048744	-.058921	-.068600	.386578
2.76	-.018100	-.029781	-.040911	-.051509	-.061592	-.071175	.385145
2.77	-.021119	-.032709	-.043746	-.054251	-.064239	-.073726	.383694
2.78	-.024116	-.035614	-.046559	-.056969	-.066862	-.076253	.382226
2.79	-.027092	-.038498	-.049349	-.059665	-.069462	-.078756	.380740
2.80	-.030046	-.041359	-.052116	-.062337	-.072038	-.081235	.379236
2.81	-.032977	-.044197	-.054860	-.064986	-.074591	-.083691	.377715
2.82	-.035887	-.047013	-.057582	-.067611	-.077120	-.086122	.376176
2.83	-.038775	-.049807	-.060280	-.070213	-.079625	-.088528	.374621
2.84	-.041640	-.052577	-.062955	-.072792	-.082105	-.090911	.373048
2.85	-.044483	-.055325	-.065607	-.075347	-.084562	-.093269	.371458
2.86	-.047303	-.058050	-.068235	-.077878	-.086995	-.095603	.369852
2.87	-.050101	-.060752	-.070840	-.080385	-.089404	-.097913	.368229
2.88	-.052876	-.063431	-.073422	-.082869	-.091789	-.100198	.366589
2.89	-.055629	-.066087	-.075980	-.085328	-.094119	-.102458	.364934
2.90	-.058358	-.068719	-.078514	-.087764	-.096486	-.104694	.363261
2.91	-.061065	-.071328	-.081025	-.090176	-.098798	-.106906	.361573
2.92	-.063749	-.073914	-.083512	-.092563	-.101085	-.109093	.359869
2.93	-.066410	-.076476	-.085975	-.094927	-.103348	-.111255	.358149
2.94	-.069047	-.079015	-.088415	-.097266	-.105587	-.113393	.356413
2.95	-.071662	-.081530	-.090830	-.099581	-.107801	-.115506	.354662
2.96	-.074253	-.084022	-.093222	-.101872	-.109991	-.117594	.352895
2.97	-.076820	-.086490	-.095589	-.104139	-.112156	-.119657	.351113
2.98	-.079365	-.088934	-.097933	-.106381	-.114297	-.121696	.349316
2.99	-.081886	-.091354	-.100252	-.108599	-.116413	-.123710	.347504
3.00	-.084383	-.093751	-.102547	-.110792	-.118504	-.125699	.345677

Table of  $Q(y, \varphi)$  and  $S(y)$

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$S(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	.997387	.997199	.997007	.996812	.996613	.996409	.003333
.02	.994746	.994370	.993988	.993599	.993202	.992796	.006666
.03	.992078	.991515	.990943	.990361	.989767	.989160	.009999
.04	.989382	.988634	.987873	.987098	.986308	.985502	.013331
.05	.986659	.985726	.984777	.983811	.982826	.981821	.016663
.06	.983909	.982791	.981655	.980499	.979321	.978119	.019993
.07	.981131	.979831	.978509	.977163	.975793	.974394	.023322
.08	.978327	.976844	.975337	.973804	.972241	.970648	.026650
.09	.975496	.973832	.972141	.970420	.968668	.966881	.029976
.10	.972639	.970794	.968919	.967013	.965071	.963092	.033300
.11	.969755	.967730	.965674	.963582	.961453	.959282	.036622
.12	.966845	.964642	.962404	.960129	.957812	.955451	.039942
.13	.963909	.961528	.959110	.956652	.954150	.951600	.043260
.14	.960948	.958389	.955792	.953152	.950465	.947728	.046575
.15	.957960	.955226	.952450	.949630	.946760	.943835	.049888
.16	.954947	.952038	.949085	.946085	.943032	.939923	.053197
.17	.951908	.948825	.945696	.942518	.939284	.935991	.056503
.18	.948845	.945588	.942284	.938928	.935515	.932039	.059806
.19	.945756	.942327	.938849	.935317	.931725	.928068	.063105
.20	.942642	.939042	.935391	.931684	.927915	.924078	.066400
.21	.939504	.935734	.931911	.928029	.924084	.920068	.069692
.22	.936341	.932402	.928408	.924353	.920233	.916040	.072979
.23	.933154	.929046	.924882	.920656	.916362	.911993	.076262
.24	.929942	.925668	.921335	.916939	.912472	.907927	.079540
.25	.926707	.922266	.917766	.913200	.908561	.903844	.082814
.26	.923447	.918842	.914175	.909441	.904632	.899742	.086082
.27	.920165	.915395	.910562	.905661	.900684	.895623	.089346
.28	.916858	.911925	.906928	.901861	.896716	.891486	.092604
.29	.913529	.908434	.903274	.898041	.892730	.887331	.095856
.30	.910176	.904920	.899598	.894202	.888725	.883160	.099103
.31	.906800	.901384	.895901	.890343	.884703	.878972	.102344
.32	.903402	.897827	.892184	.886465	.880662	.874767	.105578
.33	.899981	.894249	.888447	.882567	.876603	.870545	.108807
.34	.896538	.890649	.884689	.878651	.872527	.866307	.112029
.35	.893073	.887028	.880911	.874716	.868433	.862053	.115244
.36	.889586	.883386	.877114	.870762	.864322	.857783	.118452
.37	.886077	.879724	.873298	.866791	.860194	.853498	.121653
.38	.882546	.876041	.869462	.862801	.856049	.849197	.124847
.39	.878994	.872337	.865607	.858793	.851888	.844881	.128033
.40	.875421	.868614	.861733	.854768	.847710	.840550	.131212
.41	.871827	.864871	.857840	.850725	.843516	.836204	.134383
.42	.868212	.861108	.853929	.846665	.839306	.831844	.137546
.43	.864577	.857326	.849999	.842588	.835081	.827470	.140701
.44	.860921	.853525	.846052	.838494	.830840	.823081	.143847
.45	.857245	.849704	.842087	.834383	.826584	.818679	.146984
.46	.853549	.845865	.838104	.830256	.822313	.814263	.150113
.47	.849833	.842007	.834104	.826114	.818027	.809834	.153233
.48	.846098	.838131	.830086	.821955	.813727	.805391	.156344
.49	.842344	.834236	.826052	.817780	.809412	.800936	.159445
.50	.838570	.830324	.822000	.813590	.805083	.796467	.162537

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$S(y)$
.50	.838570	.830324	.822000	.813590	.805083	.796467	.162537
.51	.834777	.826393	.817933	.809385	.800740	.791987	.165619
.52	.830966	.822446	.813849	.805165	.796384	.787494	.168691
.53	.827136	.818480	.809748	.800930	.792014	.782989	.171754
.54	.823287	.814498	.805632	.796680	.787630	.778472	.174806
.55	.819421	.810499	.801501	.792416	.783234	.773944	.177847
.56	.815537	.806483	.797354	.788138	.778825	.769404	.180878
.57	.811635	.802451	.793191	.783846	.774404	.764854	.183898
.58	.807716	.798402	.789014	.779540	.769970	.760292	.186907
.59	.803779	.794337	.784822	.775221	.765524	.755720	.189905
.60	.799825	.790257	.780615	.770889	.761067	.751137	.192892
.61	.795855	.786161	.776394	.766543	.756597	.746545	.195867
.62	.791868	.782050	.772159	.762185	.752117	.741942	.198831
.63	.787865	.777923	.767910	.757814	.747625	.737329	.201782
.64	.783845	.773781	.763647	.753431	.743122	.732708	.204722
.65	.779809	.769625	.759371	.749036	.738609	.728076	.207650
.66	.775758	.765455	.755082	.744629	.734085	.723436	.210565
.67	.771691	.761270	.750780	.740211	.729551	.718788	.213467
.68	.767609	.757071	.746465	.735781	.725006	.714130	.216357
.69	.763512	.752858	.742137	.731339	.720453	.709464	.219234
.70	.759401	.748631	.737798	.726887	.715889	.704791	.222098
.71	.755274	.744392	.733446	.722425	.711316	.700109	.224949
.72	.751133	.740139	.729082	.717951	.706735	.695420	.227787
.73	.746978	.735873	.724707	.713468	.702144	.690723	.230610
.74	.742809	.731595	.720320	.708974	.697545	.686020	.233421
.75	.738627	.727304	.715923	.704471	.692938	.681309	.236217
.76	.734431	.723001	.711514	.699958	.688322	.676592	.238999
.77	.730221	.718686	.707095	.695436	.683698	.671869	.241768
.78	.725999	.714359	.702665	.690905	.679067	.667139	.244521
.79	.721764	.710021	.698225	.686365	.674429	.662403	.247261
.80	.717516	.705671	.693776	.681817	.669783	.657662	.249986
.81	.713256	.701311	.689316	.677260	.665131	.652915	.252695
.82	.708984	.696939	.684847	.672695	.660471	.648163	.255390
.83	.704700	.692597	.680369	.668122	.655805	.643406	.258070
.84	.700404	.688165	.675882	.663542	.651133	.638644	.260735
.85	.696097	.683763	.671386	.658954	.646455	.633878	.263384
.86	.691779	.679350	.666881	.654359	.641772	.629107	.266017
.87	.687450	.674928	.662368	.649757	.637082	.624332	.268635
.88	.683110	.670497	.657847	.645148	.632388	.619554	.271237
.89	.678759	.666056	.653318	.640533	.627688	.614772	.273823
.90	.674399	.661607	.648782	.635912	.622984	.609986	.276393
.91	.670028	.657149	.644238	.631284	.618275	.605198	.278946
.92	.665648	.652682	.639687	.626651	.613562	.600407	.281483
.93	.661258	.648207	.635129	.622012	.608844	.595613	.284003
.94	.656858	.643724	.630565	.617369	.604123	.590816	.286507
.95	.652450	.639233	.625994	.612720	.599398	.586018	.288993
.96	.648033	.634735	.621417	.608066	.594670	.581217	.291463
.97	.643607	.630230	.616834	.603408	.589939	.576415	.293916
.98	.639173	.625717	.612245	.598745	.585205	.571612	.296351
.99	.634731	.621198	.607651	.594078	.580468	.566807	.298769
1.00	.630281	.616672	.603051	.589408	.575728	.562001	.301169

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$S(y)$
1.00	.630281	.616672	.603051	.589408	.575728	.562001	.301169
1.01	.625823	.612139	.598447	.584733	.570987	.557195	.303551
1.02	.621357	.607601	.593838	.580056	.566243	.552388	.305916
1.03	.616885	.603057	.589224	.575375	.561498	.547581	.308262
1.04	.612406	.598507	.584606	.570692	.556751	.542773	.310591
1.05	.607920	.593951	.579984	.566005	.552003	.537966	.312901
1.06	.603427	.589391	.575358	.561317	.547254	.533160	.315193
1.07	.598928	.584825	.570729	.556626	.542505	.528354	.317467
1.08	.594424	.580255	.566096	.551933	.537754	.523548	.319722
1.09	.589913	.575681	.561460	.547238	.533004	.518744	.321958
1.10	.585397	.571102	.556821	.542542	.528253	.513942	.324175
1.11	.580876	.566520	.552180	.537845	.523502	.509141	.326373
1.12	.576349	.561933	.547536	.533146	.518752	.504341	.328552
1.13	.571818	.557343	.542890	.528447	.514003	.499544	.330712
1.14	.567283	.552750	.538242	.523748	.509254	.494749	.332853
1.15	.562742	.548154	.533593	.519048	.504506	.489957	.334974
1.16	.558198	.543555	.528942	.514348	.499760	.485167	.337076
1.17	.553650	.538953	.524290	.509648	.495015	.480380	.339158
1.18	.549099	.534350	.519637	.504948	.490272	.475597	.341220
1.19	.544544	.529744	.514983	.500249	.485531	.470817	.343262
1.20	.539986	.525136	.510329	.495551	.480792	.466040	.345285
1.21	.535424	.520527	.505674	.490854	.476056	.461268	.347287
1.22	.530861	.515916	.501019	.486159	.471322	.456499	.349269
1.23	.526295	.511304	.496365	.481464	.466592	.451735	.351230
1.24	.521726	.506692	.491711	.476772	.461864	.446975	.353172
1.25	.517156	.502078	.487058	.472082	.457140	.442220	.355092
1.26	.512584	.497465	.482405	.467394	.452419	.437471	.356992
1.27	.508010	.492851	.477754	.462708	.447703	.432726	.358872
1.28	.503436	.488237	.473104	.458025	.442990	.427987	.360730
1.29	.498860	.483623	.468455	.453345	.438282	.422553	.362568
1.30	.494283	.479010	.463809	.448669	.433578	.418525	.364384
1.31	.489706	.474398	.459165	.443995	.428879	.413804	.366180
1.32	.485129	.469786	.454522	.439325	.424184	.409089	.367954
1.33	.480551	.465176	.449883	.434660	.419495	.404380	.369707
1.34	.475974	.460567	.445246	.429998	.414812	.399678	.371439
1.35	.471397	.455960	.440612	.425340	.410134	.394983	.373149
1.36	.466821	.451355	.435981	.420687	.405462	.390295	.374838
1.37	.462245	.446752	.431354	.416039	.400796	.385615	.376505
1.38	.457671	.442152	.426730	.411395	.396136	.380942	.378150
1.39	.453098	.437554	.422111	.406757	.391483	.376277	.379774
1.40	.448526	.432958	.417495	.402124	.386836	.371620	.381375
1.41	.443956	.428366	.412884	.397497	.382197	.366972	.382955
1.42	.439389	.423777	.408277	.392876	.377564	.362331	.384513
1.43	.434823	.419192	.403675	.388261	.372939	.357700	.386048
1.44	.430260	.414610	.399078	.383652	.368322	.353077	.387562
1.45	.425700	.410033	.394486	.379050	.363712	.348464	.389053
1.46	.421143	.405459	.389900	.374454	.359111	.343860	.390522
1.47	.416589	.400890	.385320	.369865	.354517	.339265	.391968
1.48	.412038	.396326	.380745	.365284	.349932	.334680	.393392
1.49	.407491	.391767	.376176	.360710	.345356	.330105	.394794
1.50	.402948	.387212	.371614	.356143	.340788	.325541	.396173

Table of  $Q(y, \varphi)$  and  $S(y)$

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$S(y)$
1.50	.402948	.387212	.371614	.356143	.340788	.325541	.396173
1.51	.398408	.382663	.367059	.351584	.336230	.320986	.397529
1.52	.393873	.378119	.362510	.347034	.331681	.316442	.398863
1.53	.389343	.373582	.357968	.342491	.327141	.311909	.400174
1.54	.384817	.369050	.353433	.337957	.322611	.307387	.401462
1.55	.380297	.364524	.348906	.333432	.318091	.302875	.402727
1.56	.375781	.360005	.344386	.328915	.313582	.298376	.403969
1.57	.371271	.355492	.339875	.324408	.309082	.293887	.405189
1.58	.366767	.350987	.335371	.319910	.304593	.289411	.406385
1.59	.362268	.346488	.330876	.315421	.300114	.284946	.407558
1.60	.357776	.341997	.326389	.310942	.295647	.280494	.408708
1.61	.353290	.337513	.321911	.306473	.291191	.276054	.409835
1.62	.348810	.333037	.317441	.302014	.286746	.271626	.410939
1.63	.344337	.328568	.312981	.297566	.282312	.267211	.412019
1.64	.339871	.324108	.308531	.293128	.277890	.262809	.413076
1.65	.335413	.319657	.304089	.288700	.273480	.258420	.414110
1.66	.330961	.315214	.299658	.284284	.269083	.254045	.415120
1.67	.326518	.310779	.295236	.279879	.264697	.249683	.416107
1.68	.322082	.306354	.290825	.275485	.260324	.245334	.417071
1.69	.317654	.301938	.286424	.271102	.255964	.240999	.418011
1.70	.313234	.297531	.282033	.266731	.251616	.236679	.418927
1.71	.308823	.293134	.277654	.262373	.247282	.232372	.419820
1.72	.304421	.288746	.273285	.258026	.242960	.228080	.420690
1.73	.300027	.284369	.268927	.253692	.238653	.223803	.421536
1.74	.295643	.280002	.264581	.249370	.234359	.219540	.422358
1.75	.291267	.275645	.260246	.245060	.230078	.215292	.423156
1.76	.286902	.271299	.255923	.240764	.225812	.211059	.423931
1.77	.282546	.266964	.251612	.236481	.221560	.206841	.424682
1.78	.278200	.262640	.247314	.232211	.217322	.202639	.425410
1.79	.273864	.258327	.243027	.227954	.213098	.198453	.426114
1.80	.269538	.254026	.238753	.223711	.208890	.194282	.426794
1.81	.265223	.249736	.234492	.219482	.204696	.190127	.427450
1.82	.260918	.245458	.230244	.215266	.200517	.185989	.428082
1.83	.256625	.241192	.226008	.211065	.196354	.181866	.428692
1.84	.252343	.236938	.221787	.206879	.192206	.177760	.429276
1.85	.248072	.232697	.217578	.202707	.188073	.173671	.429837
1.86	.243812	.228468	.213383	.198549	.183957	.169598	.430374
1.87	.239565	.224252	.209202	.194406	.179856	.165543	.430888
1.88	.235329	.220049	.205035	.190279	.175771	.161504	.431377
1.89	.231105	.215859	.200883	.186167	.171703	.157483	.431843
1.90	.226894	.211682	.196744	.182070	.167651	.153479	.432285
1.91	.222695	.207519	.192620	.177989	.163615	.149493	.432704
1.92	.218509	.203370	.188511	.173923	.159596	.145525	.433098
1.93	.214335	.199235	.184417	.169873	.155595	.141574	.433469
1.94	.210175	.195114	.180338	.165840	.151610	.137641	.433816
1.95	.206028	.191007	.176275	.161823	.147642	.133727	.434139
1.96	.201895	.186914	.172226	.157822	.143692	.129831	.434438
1.97	.197775	.182836	.168194	.153838	.139760	.125953	.434714
1.98	.193669	.178773	.164177	.149870	.135845	.122094	.434965
1.99	.189576	.174725	.160176	.145920	.131948	.118254	.435193
2.00	.185498	.170692	.156191	.141986	.128069	.114433	.435398

Table of Q(y, φ) and S(y)

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	S(y)
2.00	.185498	.170692	.156191	.141986	.128069	.114433	.435398
2.01	.181435	.166674	.152222	.138070	.124208	.110631	.435578
2.02	.177386	.162672	.148270	.134171	.120366	.106848	.435735
2.03	.173351	.158686	.144335	.130289	.116542	.103084	.435869
2.04	.169332	.154715	.140416	.126426	.112736	.099340	.435978
2.05	.165328	.150761	.136514	.122580	.108949	.095616	.436065
2.06	.161339	.146822	.132630	.118752	.105182	.091911	.436127
2.07	.157365	.142900	.128762	.114943	.101433	.088226	.436166
2.08	.153407	.138995	.124912	.111151	.097703	.084561	.436182
2.09	.149464	.135106	.121080	.107378	.093993	.080916	.436173
2.10	.145538	.131234	.117265	.103624	.090302	.077292	.436142
2.11	.141627	.127378	.113469	.099889	.086631	.073688	.436087
2.12	.137733	.123541	.109690	.096172	.082979	.070105	.436009
2.13	.133856	.119720	.105929	.092474	.079347	.066542	.435907
2.14	.129994	.115917	.102187	.088796	.075736	.063000	.435782
2.15	.126150	.112131	.098463	.085137	.072144	.059479	.435634
2.16	.122323	.108364	.094758	.081497	.068573	.055978	.435462
2.17	.118512	.104614	.091072	.077877	.065022	.052499	.435268
2.18	.114719	.100882	.087404	.074276	.061491	.049042	.435050
2.19	.110943	.097169	.083756	.070696	.057981	.045605	.434809
2.20	.107185	.093473	.080126	.067135	.054492	.042191	.434545
2.21	.103444	.089797	.076517	.063595	.051024	.038797	.434258
2.22	.099722	.086139	.072926	.060075	.047576	.035426	.433948
2.23	.096017	.082500	.069355	.056575	.044150	.032076	.433616
2.24	.092330	.078879	.065804	.053095	.040745	.028748	.433260
2.25	.088662	.075278	.062273	.049636	.037362	.025442	.432882
2.26	.085012	.071696	.058761	.046198	.034000	.022159	.432481
2.27	.081381	.068134	.055270	.042781	.030659	.018897	.432057
2.28	.077769	.064591	.051799	.039385	.027340	.015658	.431611
2.29	.074175	.061068	.048349	.036010	.024043	.012442	.431142
2.30	.070600	.057564	.044919	.032656	.020767	.009247	.430650
2.31	.067045	.054080	.041509	.029323	.017514	.006076	.430137
2.32	.063509	.050617	.038121	.026012	.014283	.002927	.429600
2.33	.059992	.047173	.034753	.022722	.011074	-.000199	.429042
2.34	.056495	.043750	.031406	.019454	.007887	-.003302	.428461
2.35	.053017	.040347	.028080	.016208	.004723	-.006382	.427859
2.36	.049559	.036965	.024776	.012984	.001581	-.009439	.427234
2.37	.046122	.033603	.021493	.009781	-.001539	-.012473	.426587
2.38	.042704	.030262	.018231	.006601	-.004635	-.015483	.425918
2.39	.039307	.026942	.014991	.003443	-.007709	-.018470	.425228
2.40	.035929	.023643	.011772	.000307	-.010760	-.021434	.424515
2.41	.032573	.020365	.008575	-.002806	-.013788	-.024374	.423781
2.42	.029237	.017109	.005401	-.005898	-.016793	-.027291	.423026
2.43	.025921	.013874	.002248	-.008966	-.019775	-.030184	.422248
2.44	.022627	.010660	-.000883	-.012012	-.022733	-.033054	.421450
2.45	.019353	.007468	-.003992	-.015035	-.025669	-.035899	.420630
2.46	.016101	.004297	-.007078	-.018035	-.028581	-.038721	.419789
2.47	.012869	.001148	-.010142	-.021012	-.031469	-.041519	.418926
2.48	.009659	-.001978	-.013184	-.023967	-.034334	-.044292	.418043
2.49	.006471	-.005083	-.016203	-.026898	-.037176	-.047042	.417138
2.50	.003303	-.008166	-.019199	-.029806	-.039993	-.049768	.416213



Table of  $Q(y, \varphi)$  and  $S(y)$

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$S(y)$
2.50	.003303	-.008166	-.019199	-.029806	-.039993	-.049769	.416213
2.51	.000158	-.011227	-.022173	-.032691	-.042787	-.052469	.415267
2.52	-.002966	-.014265	-.025124	-.035552	-.045557	-.055146	.414300
2.53	-.006068	-.017281	-.028052	-.038390	-.048304	-.057799	.413312
2.54	-.009148	-.020274	-.030956	-.041205	-.051026	-.060427	.412304
2.55	-.012206	-.023245	-.033838	-.043996	-.053724	-.063031	.411276
2.56	-.015242	-.026193	-.036697	-.046763	-.056399	-.065610	.410227
2.57	-.018256	-.029118	-.039532	-.049506	-.059049	-.068165	.409158
2.58	-.021247	-.032021	-.042344	-.052226	-.061675	-.070696	.408069
2.59	-.024216	-.034901	-.045133	-.054922	-.064276	-.073201	.406959
2.60	-.027163	-.037757	-.047898	-.057594	-.066854	-.075682	.405830
2.61	-.030087	-.040591	-.050640	-.060242	-.069406	-.078139	.404681
2.62	-.032988	-.043401	-.053357	-.062866	-.071935	-.080570	.403513
2.63	-.035866	-.046188	-.056052	-.065466	-.074439	-.082977	.402324
2.64	-.038722	-.048952	-.058722	-.068042	-.076919	-.085359	.401117
2.65	-.041554	-.051692	-.061369	-.070593	-.079373	-.087716	.399889
2.66	-.044364	-.054409	-.063992	-.073120	-.081804	-.090048	.398643
2.67	-.047150	-.057102	-.066590	-.075623	-.084209	-.092355	.397377
2.68	-.049913	-.059772	-.069165	-.078102	-.086590	-.094637	.396093
2.69	-.052653	-.062418	-.071716	-.080556	-.088946	-.096894	.394789
2.70	-.055370	-.065040	-.074242	-.082985	-.091278	-.099126	.393467
2.71	-.058063	-.067639	-.076745	-.085390	-.093584	-.101332	.392126
2.72	-.060733	-.070213	-.079223	-.087771	-.095866	-.103514	.390766
2.73	-.063379	-.072764	-.081676	-.090127	-.098123	-.105671	.389388
2.74	-.066001	-.075290	-.084106	-.092458	-.100354	-.107802	.387992
2.75	-.068600	-.077792	-.086511	-.094764	-.102561	-.109908	.386578
2.76	-.071175	-.080271	-.088891	-.097046	-.104743	-.111989	.385145
2.77	-.073726	-.082725	-.091247	-.099303	-.106900	-.114045	.383694
2.78	-.076253	-.085155	-.093579	-.101535	-.109032	-.116075	.382226
2.79	-.078756	-.087560	-.095886	-.103742	-.111138	-.118081	.380740
2.80	-.081235	-.089941	-.098168	-.105924	-.113220	-.120060	.379236
2.81	-.083691	-.092298	-.100425	-.108082	-.115276	-.122015	.377715
2.82	-.086122	-.094631	-.102658	-.110214	-.117308	-.123944	.376176
2.83	-.088528	-.096938	-.104866	-.112322	-.119314	-.125848	.374621
2.84	-.090911	-.099222	-.107050	-.114404	-.121295	-.127727	.373048
2.85	-.093269	-.101481	-.109208	-.116462	-.123250	-.129581	.371458
2.86	-.095603	-.103715	-.111342	-.118494	-.125181	-.131409	.369852
2.87	-.097913	-.105924	-.113450	-.120502	-.127086	-.133211	.368229
2.88	-.100198	-.108109	-.115534	-.122484	-.128966	-.134989	.366589
2.89	-.102458	-.110269	-.117593	-.124441	-.130821	-.136741	.364934
2.90	-.104694	-.112404	-.119627	-.126373	-.132651	-.138468	.363261
2.91	-.106906	-.114515	-.121636	-.128280	-.134455	-.140169	.361573
2.92	-.109093	-.116601	-.123620	-.130162	-.136234	-.141845	.359869
2.93	-.111255	-.118661	-.125579	-.132019	-.137988	-.143496	.358149
2.94	-.113393	-.120697	-.127513	-.133850	-.139717	-.145121	.356413
2.95	-.115506	-.122709	-.129422	-.135656	-.141420	-.146722	.354662
2.96	-.117594	-.124695	-.131306	-.137437	-.143099	-.148297	.352895
2.97	-.119657	-.126656	-.133165	-.139193	-.144752	-.149846	.351113
2.98	-.121696	-.128592	-.134998	-.140924	-.146379	-.151371	.349316
2.99	-.123710	-.130504	-.136807	-.142630	-.147982	-.152870	.347504
3.00	-.125699	-.132390	-.138590	-.144310	-.149559	-.154344	.345677

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$S(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	.996409	.996202	.995989	.995770	.995546	.995315	.003333
.02	.992796	.992382	.991957	.991522	.991075	.990615	.006666
.03	.989160	.988540	.987906	.987255	.986587	.985899	.009999
.04	.985502	.984678	.983834	.982970	.982082	.981169	.013331
.05	.981821	.980794	.979743	.978666	.977561	.976424	.016663
.06	.978119	.976890	.975633	.974345	.973023	.971664	.019993
.07	.974394	.972966	.971504	.970006	.968470	.966891	.023322
.08	.970648	.969020	.967356	.965650	.963901	.962103	.026650
.09	.966881	.965055	.963189	.961277	.959316	.957302	.029976
.10	.963092	.961070	.959003	.956887	.954716	.952486	.033300
.11	.959282	.957065	.954799	.952479	.950101	.947658	.036622
.12	.955451	.953041	.950577	.948056	.945470	.942816	.039942
.13	.951600	.948997	.946337	.943615	.940826	.937962	.043260
.14	.947728	.944934	.942080	.939159	.936166	.933095	.046575
.15	.943835	.940852	.937805	.934687	.931493	.928215	.049888
.16	.939923	.936752	.933512	.930199	.926805	.923323	.053197
.17	.935991	.932633	.929203	.925696	.922104	.918419	.056503
.18	.932039	.928495	.924877	.921177	.917388	.913503	.059806
.19	.928068	.924340	.920534	.916643	.912660	.908576	.063105
.20	.924078	.920167	.916175	.912095	.907918	.903638	.066400
.21	.920068	.915976	.911799	.907531	.903164	.898688	.069692
.22	.916040	.911767	.907408	.902954	.898397	.893727	.072979
.23	.911993	.907541	.903001	.898362	.893617	.888756	.076262
.24	.907927	.903299	.898578	.893756	.888825	.883774	.079540
.25	.903844	.899039	.894140	.889137	.884021	.878782	.082814
.26	.899742	.894763	.889687	.884504	.879205	.873780	.086082
.27	.895623	.890471	.885219	.879858	.874378	.868769	.089346
.28	.891486	.886162	.880736	.875199	.869539	.863747	.092604
.29	.887331	.881837	.876239	.870526	.864690	.858717	.095856
.30	.883160	.877497	.871728	.865842	.859829	.853677	.099103
.31	.878972	.873141	.867202	.861145	.854958	.848629	.102344
.32	.874767	.868770	.862663	.856436	.850076	.843572	.105578
.33	.870545	.864384	.858111	.851714	.845184	.838507	.108807
.34	.866307	.859983	.853545	.846982	.840282	.833433	.112029
.35	.862053	.855567	.848966	.842237	.835370	.828352	.115244
.36	.857783	.851137	.844374	.837482	.830449	.823263	.118452
.37	.853498	.846693	.839769	.832715	.825518	.818166	.121653
.38	.849197	.842235	.835153	.827938	.820579	.813062	.124847
.39	.844881	.837763	.830523	.823150	.815631	.807952	.128033
.40	.840550	.833278	.825882	.818352	.810674	.802834	.131212
.41	.836204	.828779	.821230	.813544	.805708	.797710	.134383
.42	.831844	.824268	.816565	.808725	.800735	.792580	.137546
.43	.827470	.819743	.811890	.803898	.795754	.787444	.140701
.44	.823081	.815206	.807203	.799061	.790765	.782302	.143847
.45	.818679	.810657	.802506	.794214	.785768	.777154	.146984
.46	.814263	.806095	.797798	.789359	.780765	.772001	.150113
.47	.809834	.801522	.793080	.784495	.775754	.766843	.153233
.48	.805391	.796937	.788351	.779623	.770737	.761679	.156344
.49	.800936	.792340	.783613	.774742	.765713	.756512	.159445
.50	.796467	.787732	.778865	.769853	.760683	.751340	.162537

Table of  $Q(y, \varphi)$  and  $S(y)$

$\varphi$ $y$	1.00	1.05	1.10	1.15	1.20	1.25	$S(y)$
.50	.796467	.787732	.778865	.769853	.760683	.751340	.162537
.51	.791987	.783113	.774108	.764957	.755647	.746163	.165619
.52	.787494	.778484	.769341	.760053	.750605	.740983	.168691
.53	.782989	.773844	.764566	.755142	.745558	.735799	.171754
.54	.778472	.769193	.759782	.750224	.740505	.730611	.174806
.55	.773944	.764533	.754989	.745299	.735448	.725421	.177847
.56	.769404	.759863	.750188	.740367	.730385	.720227	.180878
.57	.764854	.755183	.745379	.735429	.725318	.715030	.183898
.58	.760292	.750494	.740563	.730485	.720246	.709831	.186907
.59	.755720	.745796	.735738	.725535	.715170	.704629	.189905
.60	.751137	.741088	.730907	.720579	.710091	.699426	.192892
.61	.746545	.736373	.726068	.715618	.705007	.694220	.195867
.62	.741942	.731648	.721223	.710652	.699920	.689013	.198831
.63	.737329	.726916	.716371	.705681	.694830	.683805	.201782
.64	.732708	.722175	.711512	.700705	.689737	.678595	.204722
.65	.728076	.717427	.706648	.695724	.684642	.673385	.207650
.66	.723436	.712672	.701777	.690740	.679543	.668173	.210565
.67	.718788	.707909	.696901	.685751	.674443	.662962	.213467
.68	.714130	.703139	.692020	.680758	.669340	.657750	.216357
.69	.709464	.698362	.687133	.675762	.664236	.652538	.219234
.70	.704791	.693579	.682241	.670763	.659130	.647326	.222098
.71	.700109	.688790	.677345	.665761	.654023	.642114	.224949
.72	.695420	.683994	.672444	.660756	.648914	.636904	.227787
.73	.690723	.679193	.667539	.655748	.643805	.631694	.230610
.74	.686020	.674386	.662630	.650738	.638695	.626485	.233421
.75	.681309	.669574	.657717	.645725	.633584	.621278	.236217
.76	.676592	.664756	.652800	.640711	.628474	.616073	.238999
.77	.671869	.659934	.647881	.635695	.623363	.610869	.241768
.78	.667139	.655107	.642958	.630678	.618253	.605667	.244521
.79	.662403	.650275	.638032	.625660	.613143	.600468	.247261
.80	.657662	.645440	.633104	.620640	.608034	.595271	.249986
.81	.652915	.640600	.628173	.615620	.602926	.590076	.252695
.82	.648163	.635757	.623241	.610600	.597819	.584885	.255390
.83	.643406	.630910	.618306	.605579	.592714	.579697	.258070
.84	.638644	.626060	.613370	.600558	.587610	.574512	.260735
.85	.633878	.621208	.608432	.595537	.582509	.569331	.263384
.86	.629107	.616352	.603493	.590517	.577409	.564154	.266017
.87	.624332	.611494	.598553	.585497	.572311	.558981	.268635
.88	.619554	.606633	.593613	.580478	.567217	.553812	.271237
.89	.614772	.601771	.588671	.575461	.562125	.548648	.273823
.90	.609986	.596906	.583730	.570445	.557036	.543489	.276393
.91	.605198	.592040	.578789	.565430	.551950	.538334	.278946
.92	.600407	.587173	.573848	.560417	.546868	.533185	.281483
.93	.595613	.582305	.568907	.555406	.541789	.528041	.284003
.94	.590816	.577435	.563967	.550398	.536715	.522903	.286507
.95	.586018	.572565	.559028	.545392	.531644	.517770	.288993
.96	.581217	.567695	.554090	.540389	.526578	.512644	.291463
.97	.576415	.562824	.549153	.535388	.521517	.507524	.293916
.98	.571612	.557954	.544218	.530391	.516460	.502410	.296351
.99	.566807	.553084	.539285	.525398	.511408	.497303	.298769
1.00	.562001	.548214	.534354	.520407	.506362	.492204	.301169

Table of  $Q(y, \varphi)$  and  $S(y)$

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$S(y)$
1.00	.562001	.548214	.534354	.520407	.506362	.492204	.301169
1.01	.557195	.543345	.529425	.515421	.501321	.487111	.303551
1.02	.552388	.538477	.524498	.510439	.496286	.482026	.305916
1.03	.547581	.533610	.519575	.505461	.491257	.476948	.308262
1.04	.542773	.528745	.514654	.500488	.486234	.471878	.310591
1.05	.537966	.523882	.509737	.495520	.481217	.466816	.312901
1.06	.533160	.519020	.504823	.490556	.476207	.461762	.315193
1.07	.528354	.514160	.499912	.485598	.471204	.456717	.317467
1.08	.523548	.509303	.495006	.480645	.466207	.451681	.319722
1.09	.518744	.504448	.490104	.475698	.461218	.446653	.321958
1.10	.513942	.499597	.485206	.470756	.456237	.441634	.324175
1.11	.509141	.494748	.480312	.465821	.451263	.436625	.326373
1.12	.504341	.489902	.475423	.460892	.446297	.431625	.328552
1.13	.499544	.485061	.470540	.455970	.441339	.426635	.330712
1.14	.494749	.480222	.465661	.451054	.436389	.421654	.332853
1.15	.489957	.475388	.460788	.446145	.431448	.416684	.334974
1.16	.485167	.470558	.455921	.441244	.426515	.411724	.337076
1.17	.480380	.465732	.451059	.436349	.421592	.406775	.339158
1.18	.475597	.460911	.446204	.431463	.416677	.401836	.341220
1.19	.470817	.456095	.441355	.426584	.411772	.396908	.343262
1.20	.466040	.451284	.436512	.421713	.406877	.391991	.345285
1.21	.461268	.446478	.431676	.416851	.401991	.387086	.347287
1.22	.456499	.441678	.426848	.411997	.397115	.382192	.349269
1.23	.451735	.436883	.422026	.407152	.392250	.377310	.351230
1.24	.446975	.432095	.417212	.402315	.387395	.372439	.353172
1.25	.442220	.427312	.412405	.397488	.382550	.367581	.355092
1.26	.437471	.422537	.407606	.392670	.377716	.362735	.356992
1.27	.432726	.417767	.402816	.387861	.372893	.357902	.358872
1.28	.427987	.413005	.398033	.383062	.368081	.353081	.360730
1.29	.423253	.408249	.393259	.378273	.363281	.348273	.362568
1.30	.418525	.403501	.388494	.373495	.358492	.343478	.364384
1.31	.413804	.398760	.383738	.368726	.353715	.338696	.366180
1.32	.409089	.394027	.378990	.363968	.348950	.333928	.367954
1.33	.404380	.389302	.374252	.359221	.344197	.329174	.369707
1.34	.399678	.384585	.369524	.354484	.339457	.324433	.371439
1.35	.394983	.379877	.364805	.349759	.334729	.319706	.373149
1.36	.390295	.375177	.360097	.345045	.330014	.314993	.374838
1.37	.385615	.370485	.355398	.340343	.325311	.310295	.376505
1.38	.380942	.365803	.350710	.335652	.320622	.305611	.378150
1.39	.376277	.361130	.346032	.330974	.315946	.300942	.379774
1.40	.371620	.356466	.341365	.326307	.311284	.296288	.381375
1.41	.366972	.351812	.336709	.321653	.306635	.291649	.382955
1.42	.362331	.347162	.332064	.317011	.302001	.287025	.384513
1.43	.357700	.342533	.327430	.312382	.297380	.282417	.386048
1.44	.353077	.337909	.322808	.307765	.292773	.277824	.387562
1.45	.348464	.333296	.318198	.303162	.288181	.273247	.389053
1.46	.343860	.328692	.313599	.298572	.283604	.268686	.390522
1.47	.339265	.324100	.309013	.293996	.279041	.264141	.391968
1.48	.334680	.319519	.304439	.289433	.274493	.259612	.393392
1.49	.330105	.314949	.299878	.284884	.269960	.255100	.394794
1.50	.325541	.310390	.295329	.280349	.265443	.250604	.396173

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$S(y)$
1.50	.325541	.310390	.295329	.280349	.265443	.250604	.396173
1.51	.320986	.305843	.290793	.275828	.260941	.246125	.397529
1.52	.316442	.301308	.286271	.271322	.256455	.241663	.398863
1.53	.311909	.296785	.281761	.266830	.251984	.237218	.400174
1.54	.307387	.292274	.277265	.262353	.247530	.232791	.401462
1.55	.302875	.287775	.272783	.257891	.243092	.228381	.402727
1.56	.298376	.283289	.268314	.253443	.238670	.223988	.403969
1.57	.293887	.278816	.263860	.249011	.234265	.219614	.405189
1.58	.289411	.274356	.259419	.244595	.229876	.215257	.406385
1.59	.284946	.269909	.254994	.240194	.225504	.210918	.407558
1.60	.280494	.265475	.250582	.235809	.221149	.206597	.408708
1.61	.276054	.261055	.246186	.231440	.216811	.202295	.409835
1.62	.271626	.256648	.241804	.227087	.212491	.198012	.410939
1.63	.267211	.252256	.237437	.222750	.208188	.193747	.412019
1.64	.262809	.247877	.233086	.218430	.203903	.189500	.413076
1.65	.258420	.243513	.228750	.214126	.199635	.185273	.414110
1.66	.254045	.239163	.224430	.209839	.195386	.181065	.415120
1.67	.249683	.234828	.220125	.205569	.191154	.176876	.416107
1.68	.245334	.230507	.215837	.201316	.186941	.172707	.417071
1.69	.240999	.226202	.211564	.197081	.182746	.168557	.418011
1.70	.236679	.221912	.207308	.192863	.178570	.164427	.418927
1.71	.232372	.217637	.203069	.188662	.174413	.160316	.419820
1.72	.228080	.213377	.198846	.184480	.170274	.156226	.420690
1.73	.223803	.209134	.194640	.180315	.166155	.152156	.421536
1.74	.219540	.204906	.190450	.176168	.162054	.148105	.422358
1.75	.215292	.200694	.186278	.172039	.157973	.144076	.423156
1.76	.211059	.196498	.182123	.167929	.153911	.140067	.423931
1.77	.206841	.192319	.177986	.163837	.149869	.136078	.424682
1.78	.202639	.188156	.173866	.159764	.145847	.132110	.425410
1.79	.198453	.184010	.169764	.155710	.141844	.128163	.426114
1.80	.194282	.179881	.165680	.151675	.137861	.124237	.426794
1.81	.190127	.175768	.161614	.147658	.133899	.120332	.427450
1.82	.185989	.171673	.157566	.143661	.129957	.116449	.428082
1.83	.181866	.167596	.153536	.139684	.126035	.112587	.428691
1.84	.177760	.163535	.149525	.135726	.122133	.108746	.429276
1.85	.173671	.159493	.145533	.131787	.118253	.104927	.429837
1.86	.169598	.155468	.141559	.127869	.114393	.101130	.430374
1.87	.165543	.151461	.137605	.123970	.110554	.097354	.430888
1.88	.161504	.147472	.133669	.120091	.106736	.093601	.431377
1.89	.157483	.143502	.129753	.116233	.102939	.089869	.431843
1.90	.153479	.139549	.125856	.112395	.099163	.086160	.432285
1.91	.149493	.135616	.121979	.108577	.095409	.082473	.432704
1.92	.145525	.131701	.118121	.104780	.091676	.078808	.433098
1.93	.141574	.127805	.114283	.101004	.087965	.075166	.433469
1.94	.137641	.123928	.110465	.097248	.084276	.071547	.433816
1.95	.133727	.120070	.106667	.093514	.080609	.067950	.434139
1.96	.129831	.116231	.102889	.089800	.076963	.064376	.434438
1.97	.125953	.112412	.099132	.086108	.073340	.060825	.434714
1.98	.122094	.108612	.095394	.082437	.069738	.057297	.434965
1.99	.118254	.104832	.091678	.078788	.066159	.053792	.435193
2.00	.114433	.101072	.087982	.075160	.062603	.050311	.435398

Table of  $Q(y, \varphi)$  and  $S(y)$

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$S(y)$
2.00	.114433	.101072	.087982	.075160	.062603	.050311	.435398
2.01	.110631	.097332	.084307	.071553	.059069	.046852	.435578
2.02	.106848	.093612	.080653	.067969	.055557	.043417	.435735
2.03	.103084	.089912	.077020	.064406	.052068	.040006	.435869
2.04	.099340	.086232	.073409	.060866	.048602	.036618	.435978
2.05	.095616	.082573	.069818	.057347	.045159	.033254	.436065
2.06	.091911	.078935	.066249	.053851	.041739	.029913	.436127
2.07	.088226	.075317	.062702	.050377	.038342	.026597	.436166
2.08	.084561	.071720	.059176	.046926	.034968	.023304	.436182
2.09	.080916	.068144	.055672	.043497	.031618	.020035	.436173
2.10	.077292	.064589	.052190	.040091	.028291	.016790	.436142
2.11	.073688	.061056	.048730	.036707	.024987	.013570	.436087
2.12	.070105	.057543	.045291	.033346	.021707	.010373	.436009
2.13	.066542	.054052	.041875	.030008	.018450	.007201	.435907
2.14	.063000	.050583	.038482	.026694	.015218	.004054	.435782
2.15	.059479	.047135	.035111	.023402	.012008	.000931	.435634
2.16	.055978	.043709	.031762	.020134	.008823	-.002168	.435462
2.17	.052499	.040305	.028436	.016888	.005662	-.005242	.435268
2.18	.049042	.036923	.025132	.013667	.002525	-.008292	.435050
2.19	.045605	.033563	.021852	.010468	-.000588	-.011316	.434809
2.20	.042191	.030226	.018594	.007293	-.003677	-.014316	.434545
2.21	.038797	.026910	.015359	.004142	-.006742	-.017291	.434258
2.22	.035426	.023617	.012148	.001015	-.009782	-.020242	.433948
2.23	.032076	.020347	.008959	-.002089	-.012798	-.023167	.433616
2.24	.028748	.017099	.005794	-.005169	-.015789	-.026067	.433260
2.25	.025442	.013874	.002652	-.008225	-.018756	-.028942	.432882
2.26	.022159	.010671	-.000467	-.011256	-.021699	-.031792	.432481
2.27	.018897	.007492	-.003562	-.014264	-.024616	-.034617	.432057
2.28	.015658	.004335	-.006633	-.017248	-.027509	-.037417	.431611
2.29	.012442	.001201	-.009681	-.020207	-.030378	-.040192	.431142
2.30	.009247	-.001909	-.012705	-.023142	-.033221	-.042941	.430650
2.31	.006076	-.004996	-.015705	-.026053	-.036040	-.045664	.430137
2.32	.002927	-.008060	-.018681	-.028939	-.038833	-.048363	.429600
2.33	-.000199	-.011100	-.021634	-.031801	-.041602	-.051036	.429042
2.34	-.003302	-.014117	-.024562	-.034638	-.044345	-.053683	.428461
2.35	-.006382	-.017110	-.027466	-.037451	-.047064	-.056305	.427859
2.36	-.009439	-.020080	-.030346	-.040238	-.049757	-.058901	.427234
2.37	-.012473	-.023026	-.033202	-.043002	-.052425	-.061472	.426587
2.38	-.015483	-.025948	-.036033	-.045740	-.055068	-.064017	.425918
2.39	-.018470	-.028847	-.038840	-.048454	-.057686	-.066537	.425228
2.40	-.021434	-.031721	-.041623	-.051142	-.060278	-.069030	.424515
2.41	-.024374	-.034571	-.044381	-.053806	-.062846	-.071498	.423781
2.42	-.027291	-.037398	-.047115	-.056445	-.065387	-.073941	.423026
2.43	-.030184	-.040200	-.049824	-.059058	-.067903	-.076357	.422248
2.44	-.033054	-.042978	-.052508	-.061647	-.070394	-.078748	.421450
2.45	-.035899	-.045731	-.055168	-.064211	-.072859	-.081113	.420630
2.46	-.038721	-.048461	-.057803	-.066749	-.075299	-.083452	.419789
2.47	-.041519	-.051165	-.060413	-.069262	-.077713	-.085765	.418926
2.48	-.044292	-.053846	-.062998	-.071750	-.080102	-.088053	.418043
2.49	-.047042	-.056502	-.065558	-.074213	-.082465	-.090314	.417138
2.50	-.049768	-.059133	-.068094	-.076650	-.084803	-.092550	.416213

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$S(y)$
2.50	-.049768	-.059133	-.068094	-.076650	-.084803	-.092550	.416213
2.51	-.052469	-.061740	-.070604	-.079062	-.087114	-.094759	.415267
2.52	-.055146	-.064322	-.073089	-.081449	-.089400	-.096943	.414300
2.53	-.057799	-.066880	-.075549	-.083810	-.091661	-.099101	.413312
2.54	-.060427	-.069412	-.077984	-.086146	-.093896	-.101233	.412304
2.55	-.063031	-.071920	-.080394	-.088456	-.096105	-.103339	.411276
2.56	-.065610	-.074403	-.082779	-.090741	-.098288	-.105419	.410227
2.57	-.068165	-.076861	-.085139	-.093000	-.100445	-.107473	.409158
2.58	-.070696	-.079294	-.087473	-.095234	-.102577	-.109501	.408069
2.59	-.073201	-.081702	-.089782	-.097442	-.104683	-.111503	.406959
2.60	-.075682	-.084085	-.092066	-.099625	-.106763	-.113479	.405830
2.61	-.078139	-.086444	-.094324	-.101782	-.108818	-.115429	.404681
2.62	-.080570	-.088777	-.096557	-.103914	-.110846	-.117354	.403513
2.63	-.082977	-.091084	-.098765	-.106020	-.112849	-.119252	.402324
2.64	-.085359	-.093367	-.100947	-.108100	-.114826	-.121125	.401117
2.65	-.087716	-.095625	-.103104	-.110155	-.116778	-.122971	.399889
2.66	-.090048	-.097857	-.105235	-.112184	-.118703	-.124792	.398643
2.67	-.092355	-.100064	-.107341	-.114187	-.120603	-.126587	.397377
2.68	-.094637	-.102246	-.109421	-.116165	-.122477	-.128355	.396093
2.69	-.096894	-.104403	-.111476	-.118117	-.124325	-.130099	.394789
2.70	-.099126	-.106534	-.113506	-.120044	-.126147	-.131816	.393467
2.71	-.101332	-.108640	-.115510	-.121944	-.127944	-.133507	.392126
2.72	-.103514	-.110720	-.117488	-.123820	-.129715	-.135173	.390766
2.73	-.105671	-.112776	-.119441	-.125669	-.131460	-.136813	.389388
2.74	-.107802	-.114806	-.121369	-.127493	-.133179	-.138427	.387992
2.75	-.109908	-.116810	-.123270	-.129291	-.134873	-.140015	.386578
2.76	-.111989	-.118789	-.125147	-.131064	-.136541	-.141578	.385145
2.77	-.114045	-.120743	-.126998	-.132811	-.138184	-.143115	.383694
2.78	-.116075	-.122671	-.128823	-.134532	-.139800	-.144626	.382226
2.79	-.118081	-.124574	-.130623	-.136228	-.141391	-.146112	.380740
2.80	-.120060	-.126452	-.132397	-.137898	-.142957	-.147572	.379236
2.81	-.122015	-.128304	-.134146	-.139543	-.144497	-.149007	.377715
2.82	-.123944	-.130130	-.135869	-.141162	-.146012	-.150416	.376176
2.83	-.125848	-.131931	-.137566	-.142756	-.147500	-.151800	.374621
2.84	-.127727	-.133707	-.139239	-.144324	-.148964	-.153158	.373048
2.85	-.129581	-.135458	-.140886	-.145867	-.150402	-.154491	.371458
2.86	-.131409	-.137183	-.142507	-.147384	-.151815	-.155799	.369852
2.87	-.133211	-.138882	-.144103	-.148876	-.153202	-.157081	.368229
2.88	-.134989	-.140556	-.145673	-.150342	-.154564	-.158338	.366589
2.89	-.136741	-.142205	-.147218	-.151783	-.155900	-.159570	.364934
2.90	-.138468	-.143829	-.148738	-.153199	-.157212	-.160777	.363261
2.91	-.140169	-.145427	-.150232	-.154589	-.158498	-.161958	.361573
2.92	-.141845	-.146999	-.151701	-.155954	-.159759	-.163115	.359869
2.93	-.143496	-.148547	-.153145	-.157294	-.160994	-.164247	.358149
2.94	-.145121	-.150069	-.154564	-.158608	-.162205	-.165353	.356413
2.95	-.146722	-.151566	-.155957	-.159898	-.163391	-.166435	.354662
2.96	-.148297	-.153037	-.157325	-.161162	-.164551	-.167492	.352895
2.97	-.149846	-.154483	-.158668	-.162402	-.165687	-.168525	.351113
2.98	-.151371	-.155905	-.159985	-.163616	-.166798	-.169532	.349316
2.99	-.152870	-.157300	-.161278	-.164805	-.167884	-.170515	.347504
3.00	-.154344	-.158671	-.162545	-.165969	-.168945	-.171473	.345677

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$S(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	.995315	.995077	.994831	.994577	.994314	.993634	.003333
.02	.990615	.990141	.989651	.989145	.988621	.987268	.006666
.03	.985899	.985191	.984460	.983705	.982922	.980902	.009999
.04	.981169	.980229	.979258	.978255	.977216	.974537	.013331
.05	.976424	.975253	.974046	.972797	.971505	.968173	.016663
.06	.971664	.970265	.968822	.967331	.965788	.961810	.019993
.07	.966891	.965265	.963589	.961857	.960065	.955449	.023322
.08	.962103	.960253	.958345	.956375	.954337	.949089	.026650
.09	.957302	.955229	.953092	.950886	.948604	.942730	.029976
.10	.952486	.950193	.947829	.945389	.942865	.936373	.033300
.11	.947658	.945145	.942557	.939885	.937122	.930019	.036622
.12	.942816	.940087	.937275	.934374	.931375	.923667	.039942
.13	.937962	.935017	.931985	.928857	.925624	.917317	.043260
.14	.933095	.929937	.926686	.923333	.919868	.910970	.046575
.15	.928215	.924846	.921379	.917803	.914109	.904626	.049888
.16	.923323	.919745	.916063	.912267	.908346	.898286	.053197
.17	.918419	.914634	.910739	.906725	.902580	.891948	.056503
.18	.913503	.909513	.905408	.901178	.896811	.885615	.059806
.19	.908576	.904382	.900069	.895625	.891038	.879285	.063105
.20	.903638	.899242	.894723	.890067	.885264	.872959	.066400
.21	.898688	.894093	.889369	.884505	.879486	.866637	.069692
.22	.893727	.888935	.884009	.878938	.873707	.860320	.072979
.23	.888756	.883768	.878642	.873366	.867925	.854007	.076262
.24	.883774	.878593	.873269	.867790	.862142	.847699	.079540
.25	.878782	.873409	.867890	.862211	.856358	.841397	.082814
.26	.873780	.868217	.862504	.856627	.850571	.835099	.086082
.27	.868769	.863018	.857113	.851040	.844784	.828807	.089346
.28	.863747	.857811	.851717	.845450	.838996	.822521	.092604
.29	.858717	.852596	.846315	.839857	.833208	.816241	.095856
.30	.853677	.847375	.840908	.834261	.827419	.809966	.099103
.31	.848629	.842146	.835496	.828663	.821629	.803698	.102344
.32	.843572	.836911	.830080	.823062	.815840	.797437	.105578
.33	.838507	.831670	.824659	.817459	.810051	.791182	.108807
.34	.833433	.826422	.819234	.811854	.804263	.784935	.112029
.35	.828352	.821169	.813806	.806247	.798475	.778694	.115244
.36	.823263	.815909	.808374	.800639	.792688	.772461	.118452
.37	.818166	.810644	.802938	.795030	.786902	.766235	.121653
.38	.813062	.805374	.797499	.789420	.781118	.760017	.124847
.39	.807952	.800099	.792057	.783809	.775335	.753807	.128033
.40	.802834	.794819	.786613	.778197	.769554	.747605	.131212
.41	.797710	.789535	.781166	.772586	.763775	.741411	.134383
.42	.792580	.784246	.775716	.766974	.757999	.735226	.137546
.43	.787444	.778953	.770265	.761362	.752225	.729050	.140701
.44	.782302	.773656	.764812	.755751	.746453	.722883	.143847
.45	.777154	.768356	.759357	.750140	.740685	.716724	.146984
.46	.772001	.763052	.753901	.744530	.734919	.710576	.150113
.47	.766843	.757745	.748443	.738921	.729157	.704436	.153233
.48	.761679	.752435	.742985	.733313	.723399	.698307	.156344
.49	.756512	.747122	.737526	.727707	.717644	.692187	.159445
.50	.751340	.741807	.732067	.722103	.711893	.686078	.162537



Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$S(y)$
.50	.751340	.741807	.732067	.722103	.711893	.686078	.162537
.51	.746163	.736489	.726608	.716500	.706147	.679979	.165619
.52	.740983	.731170	.721148	.710900	.700405	.673891	.168691
.53	.735799	.725848	.715689	.705302	.694667	.667813	.171754
.54	.730611	.720525	.710230	.699707	.688935	.661746	.174806
.55	.725421	.715201	.704772	.694114	.683207	.655690	.177847
.56	.720227	.709876	.699315	.688525	.677485	.649646	.180878
.57	.715030	.704550	.693859	.682939	.671769	.643613	.183898
.58	.709831	.699223	.688404	.677356	.666058	.637592	.186907
.59	.704629	.693896	.682951	.671777	.660353	.631582	.189905
.60	.699426	.688568	.677500	.666202	.654655	.625586	.192892
.61	.694220	.683241	.672051	.660632	.648962	.619601	.195867
.62	.689013	.677914	.666604	.655065	.643277	.613628	.198831
.63	.683805	.672587	.661160	.649503	.637598	.607669	.201782
.64	.678595	.667261	.655718	.643946	.631926	.601722	.204722
.65	.673385	.661936	.650279	.638395	.626262	.595788	.207650
.66	.668173	.656613	.644844	.632848	.620604	.589867	.210565
.67	.662962	.651290	.639412	.627307	.614955	.583960	.213467
.68	.657750	.645970	.633983	.621771	.609313	.578066	.216357
.69	.652538	.640651	.628559	.616242	.603680	.572186	.219234
.70	.647326	.635334	.623138	.610718	.598055	.566320	.222098
.71	.642114	.630020	.617722	.605201	.592438	.560469	.224949
.72	.636904	.624708	.612310	.599691	.586830	.554631	.227787
.73	.631694	.619399	.606903	.594187	.581231	.548808	.230610
.74	.626485	.614093	.601501	.588690	.575641	.543000	.233421
.75	.621278	.608791	.596104	.583201	.570060	.537207	.236217
.76	.616073	.603491	.590713	.577718	.564489	.531428	.238999
.77	.610869	.598196	.585327	.572244	.558927	.525665	.241768
.78	.605667	.592904	.579947	.566777	.553376	.519917	.244521
.79	.600468	.587616	.574573	.561318	.547835	.514185	.247261
.80	.595271	.582333	.569205	.555868	.542304	.508469	.249986
.81	.590076	.577054	.563844	.550426	.536783	.502768	.252695
.82	.584885	.571780	.558489	.544993	.531273	.497084	.255390
.83	.579697	.566512	.553141	.539568	.525774	.491415	.258070
.84	.574512	.561248	.547801	.534153	.520287	.485764	.260735
.85	.569331	.555990	.542467	.528747	.514810	.480128	.263384
.86	.564154	.550737	.537142	.523350	.509345	.474510	.266017
.87	.558981	.545491	.531824	.517964	.503892	.468908	.268635
.88	.553812	.540250	.526514	.512587	.498451	.463324	.271237
.89	.548648	.535016	.521212	.507220	.493022	.457757	.273823
.90	.543489	.529788	.515919	.501863	.487605	.452207	.276393
.91	.538334	.524567	.510634	.496517	.482201	.446675	.278946
.92	.533185	.519353	.505358	.491182	.476809	.441161	.281483
.93	.528041	.514147	.500091	.485858	.471430	.435665	.284003
.94	.522903	.508947	.494833	.480544	.466065	.430186	.286507
.95	.517770	.503755	.489585	.475243	.460712	.424726	.288993
.96	.512644	.498572	.484346	.469952	.455373	.419284	.291463
.97	.507524	.493396	.479117	.464673	.450048	.413861	.293916
.98	.502410	.488228	.473899	.459407	.444736	.408457	.296351
.99	.497303	.483069	.468690	.454152	.439439	.403071	.298769
1.00	.492204	.477918	.463492	.448909	.434155	.397705	.301169

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$S(y)$
1.00	.492204	.477918	.463492	.448909	.434155	.397705	.301169
1.01	.487111	.472777	.458305	.443679	.428886	.392357	.303551
1.02	.482026	.467644	.453128	.438462	.423632	.387029	.305916
1.03	.476948	.462521	.447962	.433258	.418392	.381721	.308262
1.04	.471878	.457407	.442808	.428066	.413167	.376432	.310591
1.05	.466816	.452303	.437665	.422888	.407957	.371163	.312901
1.06	.461762	.447209	.432534	.417723	.402763	.365914	.315193
1.07	.456717	.442125	.427415	.412572	.397584	.360684	.317467
1.08	.451681	.437052	.422308	.407435	.392420	.355475	.319722
1.09	.446653	.431989	.417213	.402312	.387273	.350287	.321958
1.10	.441634	.426936	.412130	.397203	.382141	.345119	.324175
1.11	.436625	.421895	.407060	.392108	.377026	.339971	.326373
1.12	.431625	.416864	.402003	.387028	.371926	.334844	.328552
1.13	.426635	.411845	.396959	.381962	.366844	.329739	.330712
1.14	.421654	.406838	.391928	.376911	.361777	.324654	.332853
1.15	.416684	.401842	.386910	.371876	.356728	.319590	.334974
1.16	.411724	.396858	.381906	.366856	.351696	.314548	.337076
1.17	.406775	.391886	.376916	.361851	.346681	.309527	.339158
1.18	.401836	.386927	.371939	.356862	.341683	.304528	.341220
1.19	.396908	.381980	.366977	.351888	.336702	.299551	.343262
1.20	.391991	.377046	.362029	.346931	.331740	.294595	.345285
1.21	.387086	.372124	.357095	.341989	.326795	.289662	.347287
1.22	.382192	.367216	.352177	.337064	.321868	.284750	.349269
1.23	.377310	.362321	.347273	.332155	.316959	.279861	.351230
1.24	.372439	.357439	.342384	.327263	.312068	.274994	.353172
1.25	.367581	.352571	.337510	.322388	.307196	.270150	.355092
1.26	.362735	.347717	.332652	.317530	.302343	.265328	.356992
1.27	.357902	.342877	.327809	.312689	.297508	.260529	.358872
1.28	.353081	.338051	.322982	.307865	.292692	.255752	.360730
1.29	.348273	.333239	.318171	.303059	.287895	.250999	.362568
1.30	.343478	.328442	.313376	.298270	.283117	.246269	.364384
1.31	.338696	.323660	.308597	.293499	.278359	.241562	.366180
1.32	.333928	.318892	.303835	.288746	.273620	.236878	.367954
1.33	.329174	.314140	.299089	.284011	.268901	.232218	.369707
1.34	.324433	.309403	.294360	.279295	.264201	.227581	.371439
1.35	.319706	.304681	.289648	.274597	.259522	.222968	.373149
1.36	.314993	.299975	.284952	.269917	.254862	.218379	.374838
1.37	.310295	.295285	.280275	.265256	.250223	.213813	.376505
1.38	.305611	.290611	.275614	.260614	.245604	.209272	.378150
1.39	.300942	.285953	.270971	.255991	.241006	.204754	.379774
1.40	.296288	.281311	.266346	.251387	.236428	.200261	.381375
1.41	.291649	.276686	.261739	.246803	.231871	.195792	.382955
1.42	.287025	.272077	.257150	.242238	.227335	.191348	.384513
1.43	.282417	.267485	.252579	.237692	.222820	.186928	.386048
1.44	.277824	.262910	.248026	.233166	.218326	.182532	.387562
1.45	.273247	.258352	.243492	.228661	.213853	.178161	.389053
1.46	.268686	.253812	.238977	.224175	.209402	.173815	.390522
1.47	.264141	.249289	.234480	.219709	.204972	.169494	.391968
1.48	.259612	.244784	.230002	.215264	.200564	.165198	.393392
1.49	.255100	.240296	.225544	.210839	.196178	.160926	.394794
1.50	.250604	.235826	.221105	.206435	.191814	.156680	.396173

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$S(y)$
1.50	.250604	.235826	.221105	.206435	.191814	.156680	.396173
1.51	.246125	.231375	.216685	.202051	.187471	.152459	.397529
1.52	.241663	.226941	.212284	.197689	.183151	.148264	.398863
1.53	.237218	.222526	.207904	.193347	.178853	.144094	.400174
1.54	.232791	.218130	.203543	.189026	.174578	.139949	.401462
1.55	.228381	.213752	.199202	.184727	.170325	.135830	.402727
1.56	.223988	.209393	.194881	.180449	.166094	.131736	.403969
1.57	.219614	.205054	.190581	.176192	.161887	.127669	.405189
1.58	.215257	.200733	.186301	.171958	.157702	.123627	.406385
1.59	.210918	.196431	.182041	.167744	.153540	.119610	.407558
1.60	.206597	.192149	.177802	.163553	.149402	.115620	.408708
1.61	.202295	.187887	.173584	.159384	.145286	.111656	.409835
1.62	.198012	.183644	.169387	.155237	.141194	.107718	.410939
1.63	.193747	.179422	.165211	.151112	.137125	.103806	.412019
1.64	.189500	.175219	.161056	.147009	.133079	.099920	.413076
1.65	.185273	.171036	.156922	.142929	.129058	.096061	.414110
1.66	.181065	.166874	.152809	.138871	.125060	.092228	.415120
1.67	.176876	.162732	.148719	.134836	.121085	.088421	.416107
1.68	.172707	.158610	.144650	.130824	.117135	.084641	.417071
1.69	.168557	.154509	.140602	.126835	.113208	.080888	.418011
1.70	.164427	.150429	.136577	.122869	.109306	.077161	.418927
1.71	.160316	.146370	.132573	.118926	.105428	.073461	.419820
1.72	.156226	.142332	.128592	.115006	.101574	.069787	.420690
1.73	.152156	.138316	.124633	.111109	.097744	.066140	.421536
1.74	.148105	.134320	.120697	.107236	.093939	.062520	.422358
1.75	.144076	.130346	.116782	.103386	.090159	.058927	.423156
1.76	.140067	.126393	.112891	.099560	.086403	.055361	.423931
1.77	.136078	.122462	.109022	.095757	.082671	.051822	.424682
1.78	.132110	.118553	.105176	.091979	.078965	.048310	.425410
1.79	.128163	.114666	.101353	.088224	.075283	.044825	.426114
1.80	.124237	.110801	.097552	.084493	.071626	.041367	.426794
1.81	.120332	.106958	.093775	.080787	.067994	.037937	.427450
1.82	.116449	.103137	.090022	.077104	.064388	.034533	.428082
1.83	.112587	.099339	.086291	.073446	.060806	.031157	.428691
1.84	.108746	.095563	.082584	.069812	.057250	.027808	.429276
1.85	.104927	.091809	.078900	.066202	.053719	.024486	.429837
1.86	.101130	.088078	.075240	.062617	.050213	.021192	.430374
1.87	.097354	.084370	.071604	.059057	.046733	.017925	.430888
1.88	.093601	.080685	.067991	.055521	.043279	.014686	.431377
1.89	.089869	.077023	.064403	.052010	.039850	.011474	.431843
1.90	.086160	.073384	.060838	.048524	.036446	.008289	.432285
1.91	.082473	.069768	.057297	.045062	.033068	.005132	.432704
1.92	.078808	.066176	.053781	.041626	.029716	.002003	.433098
1.93	.075166	.062607	.050288	.038214	.026390	.001099	.433469
1.94	.071547	.059061	.046820	.034828	.023090	.004173	.433816
1.95	.067950	.055539	.043377	.031467	.019815	.007220	.434139
1.96	.064376	.052040	.039957	.028131	.016567	.010239	.434438
1.97	.060825	.048565	.036563	.024821	.013345	.013230	.434714
1.98	.057297	.045115	.033193	.021535	.010148	.016193	.434965
1.99	.053792	.041687	.029847	.018276	.006978	.019129	.435193
2.00	.050311	.038284	.026527	.015041	.003834	.022038	.435398

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$S(y)$
2.00	.050311	.038284	.026527	.015041	.003834	-.022038	.435398
2.01	.046852	.034905	.023231	.011832	.000717	-.024918	.435578
2.02	.043417	.031551	.019960	.008649	-.002375	-.027771	.435735
2.03	.040006	.028220	.016714	.005492	-.005440	-.030596	.435869
2.04	.036618	.024914	.013493	.002360	-.008479	-.033393	.435978
2.05	.033254	.021632	.010297	-.000746	-.011491	-.036163	.436065
2.06	.029913	.018375	.007127	-.003826	-.014477	-.038905	.436127
2.07	.026597	.015142	.003981	-.006881	-.017437	-.041619	.436166
2.08	.023304	.011934	.000861	-.009909	-.020370	-.044305	.436182
2.09	.020035	.008750	-.002234	-.012912	-.023276	-.046963	.436173
2.10	.016790	.005591	-.005303	-.015888	-.026156	-.049594	.436142
2.11	.013570	.002457	-.008347	-.018839	-.029009	-.052197	.436087
2.12	.010373	-.000652	-.011366	-.021763	-.031836	-.054772	.436009
2.13	.007201	-.003736	-.014359	-.024661	-.034636	-.057320	.435907
2.14	.004054	-.006795	-.017326	-.027533	-.037409	-.059839	.435782
2.15	.000931	-.009829	-.020268	-.030379	-.040156	-.062331	.435634
2.16	-.002168	-.012838	-.023184	-.033199	-.042876	-.064796	.435462
2.17	-.005242	-.015822	-.026074	-.035992	-.045569	-.067232	.435268
2.18	-.008292	-.018781	-.028939	-.038759	-.048235	-.069641	.435050
2.19	-.011316	-.021714	-.031777	-.041500	-.050875	-.072022	.434809
2.20	-.014316	-.024622	-.034590	-.044215	-.053488	-.074375	.434545
2.21	-.017291	-.027505	-.037377	-.046903	-.056074	-.076701	.434258
2.22	-.020242	-.030362	-.040138	-.049564	-.058633	-.078999	.433948
2.23	-.023167	-.033193	-.042873	-.052200	-.061165	-.081270	.433616
2.24	-.026067	-.035999	-.045582	-.054808	-.063671	-.083512	.433260
2.25	-.028942	-.038780	-.048265	-.057391	-.066149	-.085728	.432882
2.26	-.031792	-.041535	-.050922	-.059946	-.068601	-.087915	.432481
2.27	-.034617	-.044264	-.053552	-.062476	-.071026	-.090076	.432057
2.28	-.037417	-.046968	-.056157	-.064979	-.073424	-.092208	.431611
2.29	-.040192	-.049646	-.058736	-.067455	-.075795	-.094314	.431142
2.30	-.042941	-.052298	-.061288	-.069904	-.078139	-.096391	.430650
2.31	-.045664	-.054924	-.063814	-.072328	-.080457	-.098442	.430137
2.32	-.048363	-.057524	-.066314	-.074724	-.082747	-.100465	.429600
2.33	-.051036	-.060099	-.068787	-.077094	-.085011	-.102460	.429042
2.34	-.053683	-.062648	-.071235	-.079438	-.087248	-.104429	.428461
2.35	-.056305	-.065170	-.073656	-.081754	-.089458	-.106370	.427859
2.36	-.058901	-.067667	-.076051	-.084045	-.091641	-.108283	.427234
2.37	-.061472	-.070138	-.078419	-.086308	-.093797	-.110170	.426587
2.38	-.064017	-.072583	-.080761	-.088545	-.095927	-.112029	.425918
2.39	-.066537	-.075002	-.083077	-.090756	-.098029	-.113862	.425228
2.40	-.069030	-.077395	-.085367	-.092940	-.100105	-.115667	.424515
2.41	-.071498	-.079762	-.087630	-.095097	-.102154	-.117445	.423781
2.42	-.073941	-.082102	-.089867	-.097228	-.104177	-.119196	.423026
2.43	-.076357	-.084417	-.092077	-.099332	-.106172	-.120921	.422248
2.44	-.078748	-.086705	-.094262	-.101410	-.108141	-.122618	.421450
2.45	-.081113	-.088968	-.096419	-.103461	-.110084	-.124289	.420630
2.46	-.083452	-.091204	-.098551	-.105485	-.111999	-.125933	.419789
2.47	-.085765	-.093414	-.100656	-.107483	-.113888	-.127550	.418926
2.48	-.088053	-.095598	-.102735	-.109455	-.115750	-.129140	.418043
2.49	-.090314	-.097756	-.104787	-.111400	-.117586	-.130704	.417138
2.50	-.092550	-.099888	-.106813	-.113319	-.119395	-.132241	.416213

Table of  $Q(y, \varphi)$  and  $S(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$S(y)$
2.50	-.092550	-.099888	-.106813	-.113319	-.119395	-.132241	.416213
2.51	-.094759	-.101994	-.108813	-.115211	-.121178	-.133752	.415267
2.52	-.096943	-.104074	-.110787	-.117076	-.122934	-.135236	.414300
2.53	-.099101	-.106127	-.112734	-.118916	-.124664	-.136694	.413312
2.54	-.101233	-.108154	-.114655	-.120729	-.126367	-.138126	.412304
2.55	-.103339	-.110155	-.116550	-.122515	-.128044	-.139531	.411276
2.56	-.105419	-.112130	-.118418	-.124276	-.129694	-.140910	.410227
2.57	-.107473	-.114079	-.120261	-.126010	-.131319	-.142263	.409158
2.58	-.109501	-.116002	-.122077	-.127717	-.132917	-.143590	.408069
2.59	-.111503	-.117899	-.123866	-.129399	-.134488	-.144892	.406959
2.60	-.113479	-.119770	-.125630	-.131054	-.136034	-.146167	.405830
2.61	-.115429	-.121614	-.127368	-.132683	-.137553	-.147416	.404681
2.62	-.117354	-.123433	-.129079	-.134286	-.139047	-.148640	.403513
2.63	-.119252	-.125225	-.130765	-.135863	-.140514	-.149837	.402324
2.64	-.121125	-.126992	-.132424	-.137414	-.141955	-.151010	.401117
2.65	-.122971	-.128733	-.134057	-.138939	-.143371	-.152156	.399889
2.66	-.124792	-.130447	-.135665	-.140438	-.144760	-.153278	.398643
2.67	-.126587	-.132136	-.137246	-.141911	-.146124	-.154374	.397377
2.68	-.128355	-.133799	-.138802	-.143359	-.147462	-.155444	.396093
2.69	-.130099	-.135435	-.140331	-.144780	-.148774	-.156490	.394789
2.70	-.131816	-.137046	-.141835	-.146176	-.150061	-.157510	.393467
2.71	-.133507	-.138632	-.143313	-.147546	-.151322	-.158505	.392126
2.72	-.135173	-.140191	-.144765	-.148890	-.152557	-.159475	.390766
2.73	-.136813	-.141725	-.146192	-.150208	-.153767	-.160421	.389388
2.74	-.138427	-.143232	-.147592	-.151501	-.154952	-.161341	.387992
2.75	-.140015	-.144715	-.148968	-.152769	-.156111	-.162237	.386578
2.76	-.141578	-.146171	-.150317	-.154011	-.157245	-.163108	.385145
2.77	-.143115	-.147602	-.151641	-.155228	-.158354	-.163955	.383694
2.78	-.144626	-.149007	-.152940	-.156419	-.159438	-.164777	.382226
2.79	-.146112	-.150387	-.154213	-.157585	-.160497	-.165575	.380740
2.80	-.147572	-.151741	-.155461	-.158726	-.161530	-.166349	.379236
2.81	-.149007	-.153070	-.156684	-.159842	-.162539	-.167099	.377715
2.82	-.150416	-.154374	-.157881	-.160933	-.163523	-.167824	.376176
2.83	-.151800	-.155652	-.159053	-.161998	-.164482	-.168526	.374621
2.84	-.153158	-.156904	-.160200	-.163039	-.165416	-.169203	.373048
2.85	-.154491	-.158132	-.161322	-.164055	-.166326	-.169857	.371458
2.86	-.155799	-.159334	-.162418	-.165046	-.167211	-.170488	.369852
2.87	-.157081	-.160511	-.163490	-.166012	-.168072	-.171095	.368229
2.88	-.158338	-.161664	-.164537	-.166954	-.168909	-.171678	.366589
2.89	-.159570	-.162791	-.165559	-.167871	-.169721	-.172238	.364934
2.90	-.160777	-.163893	-.166556	-.168764	-.170509	-.172775	.363261
2.91	-.161958	-.164970	-.167529	-.169632	-.171273	-.173288	.361573
2.92	-.163115	-.166022	-.168477	-.170476	-.172013	-.173779	.359869
2.93	-.164247	-.167050	-.169400	-.171295	-.172729	-.174247	.358149
2.94	-.165353	-.168052	-.170299	-.172091	-.173421	-.174692	.356413
2.95	-.166435	-.169031	-.171174	-.172862	-.174089	-.175114	.354662
2.96	-.167492	-.169984	-.172024	-.173609	-.174734	-.175514	.352895
2.97	-.168525	-.170913	-.172850	-.174332	-.175355	-.175891	.351113
2.98	-.169532	-.171818	-.173652	-.175032	-.175953	-.176246	.349316
2.99	-.170515	-.172698	-.174430	-.175707	-.176527	-.176578	.347504
3.00	-.171473	-.173553	-.175183	-.176359	-.177078	-.176889	.345677

Table of  $R^*(y, \varphi)$  and  $T^*(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$T^*(y)$
.00	.000000	-.025010	-.050084	-.075283	-.100674	-.126324	1.000000
.01	-.005000	-.030008	-.055074	-.080262	-.105638	-.131268	1.000050
.02	-.010000	-.035003	-.060062	-.085237	-.110596	-.136206	1.000200
.03	-.014999	-.039997	-.065046	-.090208	-.115549	-.141137	1.000450
.04	-.019997	-.044989	-.070028	-.095175	-.120497	-.146061	1.000800
.05	-.024995	-.049979	-.075005	-.100137	-.125438	-.150977	1.001249
.06	-.029991	-.054966	-.079979	-.105094	-.130373	-.155886	1.001798
.07	-.034986	-.059951	-.084950	-.110045	-.135302	-.160788	1.002447
.08	-.039979	-.064932	-.089916	-.114991	-.140224	-.165681	1.003195
.09	-.044970	-.069911	-.094877	-.119931	-.145139	-.170567	1.004042
.10	-.049958	-.074885	-.099834	-.124866	-.150047	-.175444	1.004988
.11	-.054945	-.079857	-.104785	-.129794	-.154947	-.180312	1.006032
.12	-.059928	-.084824	-.109732	-.134716	-.159840	-.185171	1.007174
.13	-.064909	-.089786	-.114673	-.139631	-.164725	-.190021	1.008414
.14	-.069886	-.094745	-.119608	-.144539	-.169601	-.194862	1.009752
.15	-.074859	-.099698	-.124537	-.149440	-.174469	-.199693	1.011187
.16	-.079829	-.104647	-.129460	-.154333	-.179329	-.204515	1.012718
.17	-.084795	-.109590	-.134377	-.159219	-.184180	-.209326	1.014346
.18	-.089757	-.114528	-.139287	-.164097	-.189021	-.214127	1.016069
.19	-.094715	-.119460	-.144190	-.168966	-.193853	-.218917	1.017887
.20	-.099667	-.124387	-.149086	-.173828	-.198676	-.223696	1.019800
.21	-.104615	-.129307	-.153974	-.178680	-.203488	-.228465	1.021807
.22	-.109557	-.134220	-.158855	-.183524	-.208291	-.233222	1.023908
.23	-.114494	-.139127	-.163728	-.188359	-.213083	-.237967	1.026101
.24	-.119425	-.144027	-.168592	-.193184	-.217865	-.242701	1.028387
.25	-.124350	-.148920	-.173449	-.197999	-.222636	-.247423	1.030763
.26	-.129269	-.153805	-.178296	-.202805	-.227396	-.252133	1.033231
.27	-.134182	-.158683	-.183135	-.207601	-.232144	-.256830	1.035788
.28	-.139088	-.163553	-.187965	-.212387	-.236881	-.261515	1.038435
.29	-.143987	-.168414	-.192785	-.217161	-.241607	-.266187	1.041170
.30	-.148878	-.173268	-.197596	-.221926	-.246320	-.270845	1.043993
.31	-.153763	-.178112	-.202397	-.226679	-.251022	-.275491	1.046902
.32	-.158639	-.182948	-.207187	-.231421	-.255711	-.280122	1.049897
.33	-.163508	-.187774	-.211968	-.236151	-.260387	-.284740	1.052977
.34	-.168369	-.192592	-.216738	-.240870	-.265050	-.289344	1.056140
.35	-.173221	-.197399	-.221497	-.245577	-.269701	-.293934	1.059387
.36	-.178064	-.202197	-.226245	-.250271	-.274338	-.298509	1.062716
.37	-.182899	-.206985	-.230982	-.254953	-.278961	-.303070	1.066125
.38	-.187725	-.211762	-.235708	-.259623	-.283571	-.307616	1.069614
.39	-.192541	-.216529	-.240422	-.264280	-.288167	-.312146	1.073183
.40	-.197348	-.221286	-.245124	-.268924	-.292748	-.316662	1.076828
.41	-.202144	-.226031	-.249813	-.273554	-.297315	-.321162	1.080551
.42	-.206931	-.230765	-.254491	-.278171	-.301868	-.325646	1.084348
.43	-.211708	-.235487	-.259155	-.282774	-.306405	-.330114	1.088220
.44	-.216473	-.240198	-.263807	-.287363	-.310928	-.334565	1.092165
.45	-.221229	-.244897	-.268446	-.291938	-.315435	-.339001	1.096182
.46	-.225973	-.249584	-.273072	-.296498	-.319927	-.343420	1.100269
.47	-.230706	-.254258	-.277684	-.301044	-.324402	-.347822	1.104425
.48	-.235427	-.258920	-.282282	-.305575	-.328862	-.352207	1.108649
.49	-.240137	-.263569	-.286866	-.310091	-.333306	-.356575	1.112940
.50	-.244835	-.268204	-.291436	-.314592	-.337734	-.360925	1.117295

$$R(y, \varphi) = R^*(y, \varphi) + \frac{1+f}{\varphi} \cdot U(y/k)$$

$$T(y) = T^*(y)/y^2$$

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$T(y)$
.50	1.755165	1.564470	1.417733	1.297600	1.196197	1.107995	4.469181
.51	1.711263	1.526691	1.384037	1.267111	1.167851	1.081544	4.312629
.52	1.668883	1.490110	1.351347	1.237296	1.140282	1.055796	4.164929
.53	1.627938	1.454665	1.319612	1.208313	1.113454	1.030719	4.025417
.54	1.588349	1.420297	1.288787	1.180123	1.087334	1.006284	3.893492
.55	1.550045	1.386953	1.258826	1.152690	1.061889	.982461	3.768603
.56	1.512956	1.354582	1.229690	1.125977	1.037089	.959224	3.650253
.57	1.477019	1.323137	1.201340	1.099954	1.012907	.936549	3.537985
.58	1.442177	1.292573	1.173741	1.074591	.989315	.914412	3.431381
.59	1.408374	1.262851	1.146859	1.049857	.966290	.892790	3.330059
.60	1.375559	1.233931	1.120663	1.025728	.943807	.871664	3.233670
.61	1.343685	1.205776	1.095123	1.002178	.921846	.851013	3.141890
.62	1.312707	1.178354	1.070211	.979183	.900384	.830820	3.054423
.63	1.282583	1.151632	1.045901	.956720	.879403	.811066	2.970997
.64	1.253275	1.125580	1.022169	.934769	.858884	.791736	2.891360
.65	1.224744	1.100170	.998991	.913310	.838810	.772813	2.815278
.66	1.196958	1.075375	.976345	.892324	.819164	.754283	2.742538
.67	1.169883	1.051170	.954210	.871793	.799931	.736132	2.672939
.68	1.143489	1.027531	.932567	.851700	.781095	.718347	2.606298
.69	1.117748	1.004436	.911398	.832029	.762642	.700914	2.542442
.70	1.092632	.981865	.890684	.812766	.744560	.683823	2.481213
.71	1.068115	.959796	.870408	.793895	.726836	.667061	2.422464
.72	1.044175	.938211	.850556	.775404	.709457	.650619	2.366055
.73	1.020787	.917092	.831113	.757278	.692412	.634485	2.311858
.74	.997930	.896421	.812062	.739507	.675690	.618649	2.259755
.75	.975585	.876184	.793393	.722078	.659281	.603104	2.209632
.76	.953732	.856364	.775091	.704979	.643175	.587839	2.161386
.77	.932352	.836946	.757144	.688201	.627363	.572846	2.114918
.78	.911428	.817918	.739540	.671733	.611835	.558117	2.070137
.79	.890943	.799266	.722269	.655566	.596583	.543644	2.026958
.80	.870883	.780977	.705320	.639690	.581598	.529421	1.985299
.81	.851233	.763039	.688683	.624097	.566874	.515439	1.945086
.82	.831977	.745441	.672347	.608777	.552402	.501692	1.906248
.83	.813103	.728172	.656305	.593724	.538176	.488174	1.868716
.84	.794599	.711222	.640547	.578930	.524188	.474879	1.832431
.85	.776451	.694582	.625065	.564386	.510432	.461800	1.797331
.86	.758648	.678240	.609850	.550087	.496901	.448932	1.763361
.87	.741180	.662189	.594896	.536025	.483591	.436270	1.730470
.88	.724035	.646420	.580194	.522194	.470494	.423807	1.698607
.89	.707205	.630925	.565738	.508588	.457606	.411540	1.667726
.90	.690678	.615695	.551521	.495201	.444920	.399464	1.637783
.91	.674446	.600724	.537537	.482027	.432433	.387573	1.608736
.92	.658500	.586004	.523779	.469060	.420140	.375864	1.580545
.93	.642832	.571528	.510241	.456296	.408034	.364332	1.553174
.94	.627434	.557290	.496918	.443730	.396113	.352973	1.526587
.95	.612298	.543283	.483805	.431357	.384371	.341783	1.500751
.96	.597417	.529501	.470895	.419171	.372805	.330758	1.475634
.97	.582783	.515938	.458185	.407169	.361410	.319895	1.451205
.98	.568390	.502589	.445668	.395347	.350183	.309191	1.427436
.99	.554232	.489448	.433342	.383700	.339120	.298641	1.404301
1.00	.540302	.476511	.421200	.372224	.328217	.288243	1.381773

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$T(y)$
1.00	.540302	.476511	.421200	.372224	.328217	.288243	1.381773
1.01	.526595	.463771	.409239	.360915	.317472	.277993	1.359828
1.02	.513104	.451225	.397454	.349770	.306880	.267888	1.338443
1.03	.499824	.438867	.385842	.338786	.296438	.257926	1.317595
1.04	.486750	.426694	.374399	.327958	.286144	.248104	1.297264
1.05	.473877	.414702	.363121	.317284	.275994	.238418	1.277429
1.06	.461200	.402885	.352005	.306760	.265985	.228867	1.258071
1.07	.448714	.391240	.341046	.296384	.256116	.219448	1.239173
1.08	.436415	.379763	.330242	.286152	.246382	.210158	1.220716
1.09	.424299	.368451	.319590	.276061	.236782	.200995	1.202684
1.10	.412360	.357300	.309086	.266109	.227313	.191956	1.185061
1.11	.400596	.346307	.298728	.256294	.217973	.183040	1.167833
1.12	.389002	.335468	.288513	.246611	.208759	.174245	1.150984
1.13	.377575	.324780	.278437	.237060	.199669	.165567	1.134502
1.14	.366311	.314241	.268498	.227638	.190700	.157006	1.118372
1.15	.355206	.303846	.258694	.218342	.181852	.148560	1.102583
1.16	.344258	.293595	.249023	.209170	.173121	.140225	1.087122
1.17	.333463	.283482	.239480	.200120	.164506	.132002	1.071977
1.18	.322818	.273507	.230066	.191190	.156005	.123887	1.057139
1.19	.312319	.263666	.220776	.182377	.147616	.115879	1.042595
1.20	.301965	.253957	.211609	.173681	.139337	.107977	1.028337
1.21	.291752	.244377	.202563	.165098	.131166	.100179	1.014353
1.22	.281677	.234925	.193635	.156628	.123102	.092483	1.000636
1.23	.271738	.225597	.184825	.148268	.115144	.084888	.987176
1.24	.261932	.216392	.176129	.140016	.107288	.077393	.973965
1.25	.252258	.207308	.167546	.131871	.099535	.069995	.960994
1.26	.242712	.198343	.159074	.123832	.091883	.062694	.948256
1.27	.233292	.189494	.150712	.115896	.084329	.055488	.935742
1.28	.223996	.180760	.142457	.108062	.076873	.048376	.923447
1.29	.214822	.172139	.134308	.100329	.069513	.041357	.911362
1.30	.205768	.163628	.126264	.092696	.062249	.034430	.899482
1.31	.196832	.155228	.118322	.085160	.055078	.027592	.887799
1.32	.188012	.146934	.110482	.077720	.047999	.020844	.876308
1.33	.179305	.138747	.102742	.070376	.041012	.014184	.865003
1.34	.170711	.130664	.095101	.063126	.034115	.007610	.853877
1.35	.162227	.122684	.087556	.055968	.027306	.001122	.842926
1.36	.153852	.114806	.080108	.048901	.020586	-.005281	.832145
1.37	.145584	.107027	.072754	.041925	.013952	-.011600	.821527
1.38	.137421	.099347	.065493	.035038	.007404	-.017836	.811068
1.39	.129362	.091764	.058324	.028238	.000940	-.023991	.800765
1.40	.121405	.084276	.051246	.021526	-.005440	-.030064	.790611
1.41	.113549	.076884	.044258	.014899	-.011738	-.036058	.780602
1.42	.105793	.069584	.037358	.008357	-.017954	-.041973	.770735
1.43	.098134	.062377	.030545	.001899	-.024089	-.047810	.761006
1.44	.090572	.055260	.023819	-.004476	-.030144	-.053569	.751410
1.45	.083105	.048233	.017179	-.010770	-.036120	-.059251	.741944
1.46	.075733	.041295	.010622	-.016983	-.042018	-.064858	.732603
1.47	.068453	.034444	.004149	-.023115	-.047839	-.070390	.723386
1.48	.061265	.027679	-.002242	-.029169	-.053584	-.075848	.714287
1.49	.054167	.021000	-.008551	-.035144	-.059253	-.081233	.705305
1.50	.047158	.014405	-.014780	-.041042	-.064847	-.086545	.696435



Table of  $R(y, \varphi)$  and  $T(y)$ 

$\varphi$ y	0.00	0.05	0.10	0.15	0.20	0.25	$T(y)$
1.50	.047158	.014405	-.014780	-.041042	-.064847	-.086545	.696435
1.51	.040238	.007893	-.020929	-.046863	-.070367	-.091784	.687676
1.52	.033404	.001464	-.026999	-.052609	-.075814	-.096953	.679023
1.53	.026657	-.004884	-.032992	-.058279	-.081188	-.102051	.670474
1.54	.019994	-.011151	-.038907	-.063875	-.086490	-.107079	.662026
1.55	.013416	-.017338	-.044746	-.069398	-.091721	-.112038	.653677
1.56	.006921	-.023447	-.050510	-.074848	-.096881	-.116928	.645425
1.57	.000507	-.029478	-.056199	-.080226	-.101971	-.121750	.637266
1.58	-.005825	-.035431	-.061814	-.085532	-.106993	-.126505	.629198
1.59	-.012077	-.041308	-.067356	-.090768	-.111945	-.131193	.621219
1.60	-.018250	-.047110	-.072825	-.095934	-.116830	-.135815	.613327
1.61	-.024344	-.052837	-.078223	-.101030	-.121647	-.140371	.605520
1.62	-.030360	-.058490	-.083549	-.106058	-.126398	-.144862	.597796
1.63	-.036300	-.064070	-.088805	-.111017	-.131082	-.149289	.590152
1.64	-.042164	-.069577	-.093991	-.115909	-.135701	-.153652	.582587
1.65	-.047952	-.075012	-.099108	-.120734	-.140255	-.157951	.575099
1.66	-.053666	-.080376	-.104156	-.125493	-.144744	-.162188	.567686
1.67	-.059306	-.085670	-.109137	-.130185	-.149169	-.166362	.560346
1.68	-.064873	-.090894	-.114050	-.134813	-.153531	-.170474	.553077
1.69	-.070368	-.096048	-.118896	-.139376	-.157830	-.174524	.545879
1.70	-.075791	-.101134	-.123677	-.143875	-.162067	-.178514	.538749
1.71	-.081143	-.106152	-.128391	-.148310	-.166241	-.182444	.531686
1.72	-.086425	-.111102	-.133041	-.152682	-.170354	-.186313	.524689
1.73	-.091637	-.115986	-.137626	-.156991	-.174407	-.190123	.517755
1.74	-.096780	-.120803	-.142147	-.161239	-.178398	-.193874	.510884
1.75	-.101855	-.125555	-.146604	-.165424	-.182330	-.197566	.504075
1.76	-.106862	-.130242	-.150999	-.169549	-.186202	-.201200	.497325
1.77	-.111802	-.134864	-.155331	-.173613	-.190015	-.204777	.490634
1.78	-.116675	-.139422	-.159602	-.177617	-.193770	-.208296	.484001
1.79	-.121482	-.143916	-.163810	-.181561	-.197466	-.211758	.477424
1.80	-.126223	-.148348	-.167958	-.185446	-.201104	-.215164	.470902
1.81	-.130900	-.152716	-.172045	-.189272	-.204685	-.218513	.464435
1.82	-.135512	-.157023	-.176073	-.193039	-.208209	-.221807	.458020
1.83	-.140061	-.161269	-.180040	-.196749	-.211677	-.225046	.451658
1.84	-.144546	-.165453	-.183949	-.200401	-.215088	-.228229	.445346
1.85	-.148968	-.169577	-.187798	-.203996	-.218444	-.231359	.439085
1.86	-.153327	-.173640	-.191590	-.207534	-.221744	-.234434	.432873
1.87	-.157625	-.177644	-.195323	-.211015	-.224989	-.237455	.426709
1.88	-.161862	-.181588	-.198999	-.214441	-.228180	-.240423	.420593
1.89	-.166037	-.185474	-.202618	-.217811	-.231316	-.243337	.414523
1.90	-.170152	-.189301	-.206180	-.221126	-.234398	-.246199	.408499
1.91	-.174207	-.193071	-.209686	-.224386	-.237427	-.249009	.402520
1.92	-.178203	-.196783	-.213136	-.227592	-.240403	-.251767	.396585
1.93	-.182139	-.200437	-.216530	-.230744	-.243326	-.254473	.390693
1.94	-.186017	-.204035	-.219870	-.233842	-.246196	-.257128	.384844
1.95	-.189836	-.207576	-.223155	-.236886	-.249015	-.259732	.379038
1.96	-.193598	-.211062	-.226385	-.239878	-.251782	-.262285	.373272
1.97	-.197302	-.214492	-.229561	-.242817	-.254497	-.264788	.367548
1.98	-.200949	-.217867	-.232684	-.245704	-.257161	-.267241	.361863
1.99	-.204539	-.221186	-.235753	-.248538	-.259774	-.269644	.356218
2.00	-.208073	-.224452	-.238769	-.251321	-.262337	-.271998	.350612

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$T(y)$
2.00	-.208073	-.224452	-.238769	-.251321	-.262337	-.271998	.350612
2.01	-.211552	-.227663	-.241733	-.254053	-.264850	-.274303	.345044
2.02	-.214974	-.230820	-.244644	-.256734	-.267313	-.276559	.339514
2.03	-.218342	-.233925	-.247504	-.259364	-.269727	-.278767	.334022
2.04	-.221655	-.236976	-.250311	-.261944	-.272091	-.280927	.328566
2.05	-.224914	-.239974	-.253068	-.264474	-.274407	-.283039	.323146
2.06	-.228118	-.242920	-.255774	-.266954	-.276674	-.285103	.317762
2.07	-.231269	-.245814	-.258429	-.269385	-.278892	-.287120	.312413
2.08	-.234366	-.248656	-.261033	-.271766	-.281063	-.289091	.307099
2.09	-.237411	-.251447	-.263588	-.274099	-.283186	-.291014	.301820
2.10	-.240403	-.254186	-.266093	-.276384	-.285262	-.292892	.296574
2.11	-.243343	-.256876	-.268549	-.278620	-.287291	-.294724	.291363
2.12	-.246230	-.259514	-.270955	-.280808	-.289273	-.296509	.286184
2.13	-.249066	-.262103	-.273313	-.282949	-.291209	-.298250	.281038
2.14	-.251851	-.264641	-.275622	-.285043	-.293098	-.299945	.275925
2.15	-.254585	-.267131	-.277883	-.287089	-.294942	-.301595	.270844
2.16	-.257268	-.269571	-.280097	-.289089	-.296740	-.303201	.265794
2.17	-.259901	-.271962	-.282262	-.291043	-.298492	-.304763	.260776
2.18	-.262484	-.274305	-.284381	-.292950	-.300200	-.306280	.255789
2.19	-.265017	-.276599	-.286452	-.294812	-.301863	-.307754	.250833
2.20	-.267501	-.278845	-.288477	-.296628	-.303481	-.309184	.245907
2.21	-.269935	-.281044	-.290455	-.298398	-.305055	-.310571	.241012
2.22	-.272321	-.283195	-.292387	-.300124	-.306585	-.311915	.236146
2.23	-.274658	-.285299	-.294273	-.301805	-.308072	-.313217	.231310
2.24	-.276947	-.287357	-.296114	-.303441	-.309515	-.314476	.226504
2.25	-.279188	-.289367	-.297909	-.305034	-.310915	-.315693	.221727
2.26	-.281382	-.291332	-.299659	-.306582	-.312272	-.316868	.216978
2.27	-.283528	-.293250	-.301365	-.308087	-.313586	-.318001	.212259
2.28	-.285627	-.295123	-.303026	-.309548	-.314858	-.319094	.207567
2.29	-.287679	-.296950	-.304643	-.310966	-.316089	-.320145	.202904
2.30	-.289685	-.298733	-.306215	-.312342	-.317277	-.321155	.198270
2.31	-.291645	-.300470	-.307744	-.313675	-.318424	-.322125	.193663
2.32	-.293559	-.302163	-.309230	-.314965	-.319529	-.323054	.189083
2.33	-.295427	-.303811	-.310673	-.316213	-.320594	-.323944	.184531
2.34	-.297249	-.305415	-.312072	-.317420	-.321617	-.324794	.180007
2.35	-.299027	-.306976	-.313429	-.318585	-.322601	-.325604	.175509
2.36	-.300760	-.308492	-.314744	-.319709	-.323544	-.326375	.171039
2.37	-.302448	-.309966	-.316016	-.320791	-.324447	-.327107	.166595
2.38	-.304092	-.311396	-.317247	-.321833	-.325310	-.327800	.162178
2.39	-.305691	-.312784	-.318435	-.322835	-.326134	-.328455	.157787
2.40	-.307247	-.314129	-.319583	-.323796	-.326918	-.329072	.153423
2.41	-.308760	-.315432	-.320689	-.324717	-.327664	-.329650	.149085
2.42	-.310229	-.316693	-.321755	-.325598	-.328370	-.330191	.144774
2.43	-.311655	-.317913	-.322780	-.326440	-.329039	-.330695	.140488
2.44	-.313039	-.319090	-.323765	-.327243	-.329669	-.331161	.136228
2.45	-.314380	-.320227	-.324709	-.328006	-.330261	-.331591	.131994
2.46	-.315679	-.321322	-.325614	-.328731	-.330816	-.331983	.127785
2.47	-.316936	-.322377	-.326479	-.329418	-.331333	-.332339	.123602
2.48	-.318151	-.323391	-.327305	-.330066	-.331812	-.332659	.119445
2.49	-.319325	-.324365	-.328092	-.330676	-.332255	-.332943	.115313
2.50	-.320457	-.325299	-.328840	-.331248	-.332661	-.333192	.111206

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.00	0.05	0.10	0.15	0.20	0.25	$T(y)$
2.50	-.320457	-.325299	-.328840	-.331248	-.332661	-.333192	.111206
2.51	-.321549	-.326194	-.329549	-.331783	-.333031	-.333404	.107124
2.52	-.322600	-.327049	-.330220	-.332280	-.333364	-.333582	.103068
2.53	-.323611	-.327864	-.330853	-.332741	-.333662	-.333725	.099036
2.54	-.324581	-.328641	-.331448	-.333165	-.333924	-.333833	.095030
2.55	-.325511	-.329379	-.332005	-.333552	-.334150	-.333906	.091048
2.56	-.326402	-.330078	-.332525	-.333903	-.334341	-.333946	.087091
2.57	-.327253	-.330739	-.333008	-.334217	-.334497	-.333951	.083159
2.58	-.328065	-.331362	-.333454	-.334497	-.334618	-.333923	.079252
2.59	-.328838	-.331948	-.333863	-.334740	-.334705	-.333861	.075369
2.60	-.329573	-.332496	-.334236	-.334948	-.334757	-.333766	.071511
2.61	-.330269	-.333006	-.334573	-.335121	-.334776	-.333638	.067678
2.62	-.330926	-.333480	-.334874	-.335260	-.334761	-.333477	.063868
2.63	-.331546	-.333917	-.335139	-.335364	-.334712	-.333284	.060084
2.64	-.332128	-.334317	-.335369	-.335433	-.334630	-.333058	.056324
2.65	-.332673	-.334681	-.335564	-.335468	-.334515	-.332801	.052588
2.66	-.333180	-.335009	-.335723	-.335470	-.334367	-.332512	.048876
2.67	-.333650	-.335301	-.335849	-.335438	-.334186	-.332191	.045189
2.68	-.334084	-.335557	-.335939	-.335372	-.333974	-.331839	.041526
2.69	-.334481	-.335779	-.335996	-.335274	-.333729	-.331456	.037888
2.70	-.334842	-.335965	-.336018	-.335143	-.333452	-.331042	.034273
2.71	-.335166	-.336116	-.336007	-.334978	-.333144	-.330598	.030683
2.72	-.335455	-.336233	-.335962	-.334782	-.332805	-.330124	.027117
2.73	-.335709	-.336315	-.335884	-.334554	-.332434	-.329619	.023575
2.74	-.335927	-.336363	-.335773	-.334293	-.332033	-.329085	.020058
2.75	-.336110	-.336378	-.335630	-.334001	-.331601	-.328521	.016564
2.76	-.336258	-.336358	-.335453	-.333677	-.331139	-.327928	.013094
2.77	-.336372	-.336305	-.335245	-.333323	-.330647	-.327306	.009649
2.78	-.336451	-.336220	-.335004	-.332937	-.330125	-.326655	.006228
2.79	-.336497	-.336101	-.334732	-.332521	-.329573	-.325976	.002830
2.80	-.336508	-.335949	-.334428	-.332074	-.328992	-.325268	-.000543
2.81	-.336486	-.335765	-.334093	-.331597	-.328381	-.324532	-.003892
2.82	-.336430	-.335549	-.333727	-.331090	-.327742	-.323769	-.007217
2.83	-.336342	-.335301	-.333330	-.330554	-.327075	-.322978	-.010518
2.84	-.336220	-.335021	-.332902	-.329988	-.326378	-.322159	-.013795
2.85	-.336066	-.334710	-.332444	-.329392	-.325654	-.321314	-.017048
2.86	-.335879	-.334368	-.331956	-.328768	-.324902	-.320441	-.020277
2.87	-.335660	-.333994	-.331439	-.328115	-.324122	-.319542	-.023482
2.88	-.335409	-.333590	-.330891	-.327433	-.323315	-.318617	-.026663
2.89	-.335127	-.333155	-.330314	-.326724	-.322481	-.317666	-.029820
2.90	-.334813	-.332690	-.329708	-.325986	-.321619	-.316689	-.032953
2.91	-.334468	-.332195	-.329073	-.325220	-.320731	-.315686	-.036062
2.92	-.334092	-.331670	-.328410	-.324427	-.319817	-.314658	-.039147
2.93	-.333685	-.331116	-.327718	-.323607	-.318876	-.313605	-.042207
2.94	-.333248	-.330532	-.326998	-.322759	-.317910	-.312527	-.045244
2.95	-.332780	-.329919	-.326250	-.321885	-.316918	-.311424	-.048257
2.96	-.332283	-.329278	-.325474	-.320984	-.315900	-.310297	-.051245
2.97	-.331756	-.328608	-.324671	-.320057	-.314857	-.309146	-.054210
2.98	-.331199	-.327909	-.323841	-.319104	-.313789	-.307971	-.057150
2.99	-.330613	-.327182	-.322984	-.318125	-.312697	-.306772	-.060067
3.00	-.329997	-.326428	-.322100	-.317121	-.311580	-.305550	-.062959

Table of  $R^*(y, \varphi)$  and  $T^*(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$T^*(y)$
.00	-.126324	-.152306	-.178694	-.205573	-.233031	-.261168	1.000000
.01	-.131268	-.157225	-.183585	-.210430	-.237849	-.265943	1.000050
.02	-.136206	-.162137	-.188467	-.215277	-.242656	-.270705	1.000200
.03	-.141137	-.167042	-.193340	-.220113	-.247451	-.275453	1.000450
.04	-.146061	-.171937	-.198203	-.224939	-.252235	-.280189	1.000800
.05	-.150977	-.176825	-.203057	-.229754	-.257006	-.284911	1.001249
.06	-.155886	-.181704	-.207900	-.234558	-.261765	-.289619	1.001798
.07	-.160788	-.186573	-.212734	-.239350	-.266511	-.294314	1.002447
.08	-.165681	-.191434	-.217557	-.244131	-.271244	-.298995	1.003195
.09	-.170567	-.196285	-.222369	-.248899	-.275964	-.303661	1.004042
.10	-.175444	-.201127	-.227171	-.253656	-.280671	-.308313	1.004988
.11	-.180312	-.205958	-.231961	-.258400	-.285364	-.312950	1.006032
.12	-.185171	-.210780	-.236740	-.263132	-.290044	-.317572	1.007174
.13	-.190021	-.215591	-.241507	-.267851	-.294710	-.322179	1.008414
.14	-.194862	-.220391	-.246263	-.272557	-.299361	-.326770	1.009752
.15	-.199693	-.225181	-.251007	-.277250	-.303998	-.331346	1.011187
.16	-.204515	-.229960	-.255738	-.281929	-.308620	-.335906	1.012718
.17	-.209326	-.234727	-.260457	-.286595	-.313228	-.340451	1.014346
.18	-.214127	-.239483	-.265163	-.291247	-.317820	-.344978	1.016069
.19	-.218917	-.244227	-.269856	-.295884	-.322397	-.349490	1.017887
.20	-.223696	-.248959	-.274536	-.300508	-.326959	-.353984	1.019800
.21	-.228465	-.253678	-.279203	-.305116	-.331505	-.358462	1.021807
.22	-.233222	-.258386	-.283856	-.309710	-.336035	-.362923	1.023908
.23	-.237967	-.263080	-.288495	-.314289	-.340548	-.367366	1.026101
.24	-.242701	-.267762	-.293120	-.318853	-.345046	-.371792	1.028387
.25	-.247423	-.272431	-.297730	-.323401	-.349526	-.376201	1.030763
.26	-.252133	-.277086	-.302327	-.327933	-.353990	-.380591	1.033231
.27	-.256830	-.281727	-.306908	-.332450	-.358437	-.384963	1.035788
.28	-.261515	-.286355	-.311475	-.336951	-.362867	-.389317	1.038435
.29	-.266187	-.290969	-.316026	-.341435	-.367280	-.393652	1.041170
.30	-.270845	-.295569	-.320562	-.345903	-.371674	-.397969	1.043993
.31	-.275491	-.300154	-.325082	-.350354	-.376051	-.402267	1.046902
.32	-.280122	-.304724	-.329587	-.354788	-.380410	-.406545	1.049897
.33	-.284740	-.309279	-.334075	-.359205	-.384751	-.410805	1.052977
.34	-.289344	-.313820	-.338547	-.363604	-.389073	-.415044	1.056140
.35	-.293934	-.318345	-.343003	-.367986	-.393376	-.419264	1.059387
.36	-.298509	-.322854	-.347442	-.372350	-.397661	-.423465	1.062716
.37	-.303070	-.327348	-.351864	-.376697	-.401927	-.427645	1.066125
.38	-.307616	-.331825	-.356270	-.381025	-.406173	-.431805	1.069614
.39	-.312146	-.336286	-.360657	-.385335	-.410400	-.435944	1.073183
.40	-.316662	-.340731	-.365028	-.389626	-.414608	-.440063	1.076828
.41	-.321162	-.345160	-.369380	-.393898	-.418795	-.444161	1.080551
.42	-.325646	-.349571	-.373715	-.398152	-.422963	-.448237	1.084348
.43	-.330114	-.353966	-.378031	-.402386	-.427110	-.452293	1.088220
.44	-.334565	-.358343	-.382330	-.406601	-.431237	-.456327	1.092165
.45	-.339001	-.362703	-.386609	-.410796	-.435344	-.460340	1.096182
.46	-.343420	-.367045	-.390870	-.414972	-.439429	-.464331	1.100269
.47	-.347822	-.371369	-.395112	-.419128	-.443494	-.468300	1.104425
.48	-.352207	-.375675	-.399335	-.423263	-.447538	-.472247	1.108649
.49	-.356575	-.379963	-.403539	-.427378	-.451560	-.476172	1.112940
.50	-.360925	-.384232	-.407723	-.431473	-.455561	-.480074	1.117295

$$R(y, \varphi) = R^*(y, \varphi) + \frac{1+f}{y} \cdot U(y/k)$$

$$T(y) = T^*(y)/y^2$$

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$T(y)$
.50	1.107995	1.030040	.960180	.896875	.838983	.785635	4.469181
.51	1.081544	1.005165	.936643	.874495	.817616	.765166	4.312629
.52	1.055796	.980934	.913703	.852671	.796771	.745190	4.164929
.53	1.030719	.957319	.891332	.831378	.776425	.725685	4.025417
.54	1.006284	.934291	.869506	.810594	.756558	.706633	3.893492
.55	.982461	.911827	.848202	.790298	.737150	.688015	3.768603
.56	.959224	.889901	.827398	.770470	.718182	.669814	3.650253
.57	.936549	.868492	.807074	.751091	.699637	.652013	3.537985
.58	.914412	.847578	.787211	.732143	.681498	.634598	3.431381
.59	.892790	.827140	.767790	.713610	.663751	.617554	3.330059
.60	.871664	.807159	.748794	.695477	.646380	.600867	3.233670
.61	.851013	.787617	.730208	.677727	.629373	.584525	3.141890
.62	.830820	.768497	.712016	.660347	.612715	.568515	3.054423
.63	.811066	.749785	.694203	.643325	.596395	.552826	2.970997
.64	.791736	.731464	.676756	.626646	.580400	.537447	2.891360
.65	.772813	.713521	.659663	.610300	.564720	.522367	2.815278
.66	.754283	.695943	.642910	.594275	.549345	.507578	2.742538
.67	.736132	.678716	.626487	.578561	.534264	.493068	2.672939
.68	.718347	.661829	.610381	.563146	.519467	.478831	2.606298
.69	.700914	.645270	.594584	.548022	.504946	.464856	2.542442
.70	.683823	.629028	.579084	.533180	.490693	.451136	2.481213
.71	.667061	.613094	.563873	.518610	.476699	.437664	2.422464
.72	.650619	.597457	.548941	.504304	.462955	.424432	2.366055
.73	.634485	.582107	.534280	.490254	.449456	.411433	2.311858
.74	.618649	.567037	.519881	.476453	.436194	.398661	2.259755
.75	.603104	.552237	.505737	.462894	.423161	.386109	2.209632
.76	.587839	.537700	.491840	.449569	.410353	.373771	2.161386
.77	.572846	.523417	.478184	.436471	.397761	.361641	2.114918
.78	.558117	.509382	.464760	.423596	.385381	.349715	2.070137
.79	.543644	.495587	.451564	.410936	.373207	.337986	2.026958
.80	.529421	.482026	.438589	.398486	.361234	.326449	1.985299
.81	.515439	.468691	.425828	.386240	.349456	.315100	1.945086
.82	.501692	.455578	.413276	.374194	.337868	.303934	1.906248
.83	.488174	.442680	.400928	.362341	.326467	.292946	1.868716
.84	.474879	.429990	.388778	.350677	.315246	.282133	1.832431
.85	.461800	.417505	.376822	.339198	.304202	.271490	1.797331
.86	.448932	.405219	.365054	.327899	.293330	.261013	1.763361
.87	.436270	.393126	.353471	.316775	.282628	.250698	1.730470
.88	.423807	.381223	.342067	.305823	.272090	.240542	1.698607
.89	.411540	.369504	.330838	.295039	.261712	.230542	1.667726
.90	.399464	.357965	.319780	.284418	.251493	.220693	1.637783
.91	.387573	.346601	.308890	.273958	.241427	.210993	1.608736
.92	.375864	.335410	.298163	.263654	.231512	.201439	1.580545
.93	.364332	.324386	.287597	.253504	.221745	.192027	1.553174
.94	.352973	.313526	.277186	.243504	.212122	.182755	1.526587
.95	.341783	.302826	.266929	.233650	.202640	.173619	1.500751
.96	.330758	.292284	.256822	.223940	.193298	.164618	1.475634
.97	.319895	.281895	.246862	.214372	.184091	.155748	1.451205
.98	.309191	.271657	.237045	.204941	.175017	.147008	1.427436
.99	.298641	.261565	.227369	.195646	.166074	.138394	1.404301
1.00	.288243	.251618	.217831	.186484	.157260	.129904	1.381773

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$T(y)$
1.00	.288243	.251618	.217831	.186484	.157260	.129904	1.381773
1.01	.277993	.241812	.208429	.177452	.148571	.121537	1.359828
1.02	.267888	.232145	.199159	.168547	.140006	.113289	1.338443
1.03	.257926	.222614	.190020	.159769	.131562	.105159	1.317595
1.04	.248104	.213216	.181008	.151113	.123238	.097145	1.297264
1.05	.238418	.203948	.172122	.142579	.115031	.089245	1.277429
1.06	.228867	.194809	.163359	.134163	.106939	.081457	1.258071
1.07	.219448	.185796	.154717	.125865	.098960	.073779	1.239173
1.08	.210158	.176907	.146195	.117681	.091093	.066209	1.220716
1.09	.200995	.168139	.137789	.109610	.083335	.058745	1.202684
1.10	.191956	.159490	.129498	.101650	.075685	.051387	1.185061
1.11	.183040	.150959	.121320	.093800	.068141	.044132	1.167833
1.12	.174245	.142544	.113253	.086057	.060701	.036978	1.150984
1.13	.165567	.134241	.105296	.078420	.053364	.029925	1.134502
1.14	.157006	.126051	.097446	.070887	.046129	.022970	1.118372
1.15	.148560	.117970	.089702	.063457	.038993	.016113	1.102583
1.16	.140225	.109997	.082063	.056128	.031956	.009351	1.087122
1.17	.132002	.102131	.074526	.048899	.025016	.002685	1.071977
1.18	.123887	.094369	.067091	.041768	.018171	-.003889	1.057139
1.19	.115879	.086710	.059755	.034733	.011420	-.010371	1.042595
1.20	.107977	.079153	.052517	.027795	.004762	-.016762	1.028337
1.21	.100179	.071696	.045377	.020950	-.001804	-.023064	1.014353
1.22	.092483	.064338	.038332	.014198	-.008280	-.029277	1.000636
1.23	.084888	.057077	.031381	.007537	-.014666	-.035403	.987176
1.24	.077393	.049912	.024523	.000967	-.020964	-.041443	.973965
1.25	.069995	.042842	.017756	-.005514	-.027176	-.047398	.960994
1.26	.062694	.035864	.011080	-.011907	-.033301	-.053269	.948256
1.27	.055488	.028979	.004494	-.018214	-.039342	-.059057	.935742
1.28	.048376	.022185	-.002005	-.024434	-.045299	-.064763	.923447
1.29	.041357	.015480	-.008416	-.030570	-.051173	-.070388	.911362
1.30	.034430	.008864	-.014742	-.036621	-.056966	-.075933	.899482
1.31	.027592	.002335	-.020982	-.042591	-.062678	-.081399	.887799
1.32	.020844	-.004108	-.027139	-.048478	-.068309	-.086786	.876308
1.33	.014184	-.010465	-.033213	-.054285	-.073862	-.092097	.865003
1.34	.007610	-.016738	-.039205	-.060012	-.079337	-.097331	.853877
1.35	.001122	-.022928	-.045117	-.065659	-.084734	-.102489	.842926
1.36	-.005281	-.029036	-.050948	-.071229	-.090056	-.107572	.832145
1.37	-.011600	-.035063	-.056700	-.076722	-.095301	-.112581	.821527
1.38	-.017836	-.041009	-.062374	-.082138	-.100472	-.117517	.811068
1.39	-.023991	-.046876	-.067970	-.087479	-.105569	-.122381	.800765
1.40	-.030064	-.052664	-.073490	-.092744	-.110593	-.127172	.790611
1.41	-.036058	-.058375	-.078934	-.097936	-.115544	-.131893	.780602
1.42	-.041973	-.064009	-.084304	-.103055	-.120423	-.136543	.770735
1.43	-.047810	-.069566	-.089599	-.108101	-.125232	-.141123	.761006
1.44	-.053569	-.075049	-.094821	-.113076	-.129970	-.145635	.751410
1.45	-.059251	-.080457	-.099970	-.117979	-.134639	-.150078	.741944
1.46	-.064858	-.085792	-.105047	-.122812	-.139238	-.154454	.732603
1.47	-.070390	-.091053	-.110053	-.127575	-.143770	-.158762	.723386
1.48	-.075848	-.096242	-.114989	-.132270	-.148233	-.163004	.714287
1.49	-.081233	-.101360	-.119855	-.136896	-.152630	-.167181	.705305
1.50	-.086545	-.106407	-.124651	-.141454	-.156960	-.171292	.696435

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$T(y)$
1.50	-.086545	-.106407	-.124651	-.141454	-.156960	-.171292	.696435
1.51	-.091784	-.111384	-.129379	-.145945	-.161225	-.175338	.687676
1.52	-.096953	-.116291	-.134040	-.150370	-.165424	-.179320	.679023
1.53	-.102051	-.121130	-.138633	-.154729	-.169559	-.183239	.670474
1.54	-.107079	-.125900	-.143159	-.159022	-.173629	-.187095	.662026
1.55	-.112038	-.130603	-.147619	-.163251	-.177636	-.190889	.653677
1.56	-.116928	-.135239	-.152014	-.167416	-.181580	-.194620	.645425
1.57	-.121750	-.139808	-.156344	-.171517	-.185462	-.198291	.637266
1.58	-.126505	-.144312	-.160609	-.175555	-.189282	-.201900	.629198
1.59	-.131193	-.148751	-.164811	-.179530	-.193040	-.205449	.621219
1.60	-.135815	-.153125	-.168949	-.183444	-.196738	-.208939	.613327
1.61	-.140371	-.157434	-.173025	-.187296	-.200375	-.212369	.605520
1.62	-.144862	-.161681	-.177038	-.191087	-.203952	-.215740	.597796
1.63	-.149289	-.165864	-.180990	-.194817	-.207470	-.219053	.590152
1.64	-.153652	-.169985	-.184881	-.198488	-.210929	-.222308	.582587
1.65	-.157951	-.174043	-.188710	-.202099	-.214329	-.225505	.575099
1.66	-.162188	-.178041	-.192480	-.205650	-.217672	-.228645	.567686
1.67	-.166362	-.181977	-.196190	-.209144	-.220957	-.231729	.560346
1.68	-.170474	-.185853	-.199841	-.212579	-.224184	-.234757	.553077
1.69	-.174524	-.189669	-.203432	-.215956	-.227355	-.237729	.545879
1.70	-.178514	-.193425	-.206966	-.219276	-.230470	-.240645	.538749
1.71	-.182444	-.197122	-.210441	-.222539	-.233529	-.243507	.531686
1.72	-.186313	-.200760	-.213859	-.225746	-.236533	-.246315	.524689
1.73	-.190123	-.204340	-.217220	-.228897	-.239482	-.249068	.517755
1.74	-.193874	-.207863	-.220525	-.231992	-.242376	-.251768	.510884
1.75	-.197566	-.211328	-.223773	-.235032	-.245215	-.254414	.504075
1.76	-.201200	-.214736	-.226965	-.238018	-.248001	-.257007	.497325
1.77	-.204777	-.218087	-.230102	-.240949	-.250734	-.259549	.490634
1.78	-.208296	-.221383	-.233184	-.243826	-.253414	-.262038	.484001
1.79	-.211758	-.224623	-.236211	-.246649	-.256041	-.264475	.477424
1.80	-.215164	-.227807	-.239184	-.249419	-.258616	-.266861	.470902
1.81	-.218513	-.230937	-.242104	-.252137	-.261139	-.269196	.464435
1.82	-.221807	-.234012	-.244969	-.254802	-.263610	-.271480	.458020
1.83	-.225046	-.237032	-.247782	-.257415	-.266030	-.273714	.451658
1.84	-.228229	-.240000	-.250542	-.259976	-.268400	-.275898	.445346
1.85	-.231359	-.242913	-.253250	-.262485	-.270719	-.278033	.439085
1.86	-.234434	-.245774	-.255905	-.264944	-.272988	-.280119	.432873
1.87	-.237455	-.248582	-.258509	-.267352	-.275207	-.282155	.426709
1.88	-.240423	-.251338	-.261062	-.269710	-.277377	-.284143	.420593
1.89	-.243337	-.254041	-.263564	-.272018	-.279497	-.286083	.414523
1.90	-.246199	-.256694	-.266015	-.274276	-.281569	-.287975	.408499
1.91	-.249009	-.259295	-.268416	-.276485	-.283593	-.289820	.402520
1.92	-.251767	-.261844	-.270767	-.278644	-.285568	-.291617	.396585
1.93	-.254473	-.264344	-.273069	-.280756	-.287496	-.293368	.390693
1.94	-.257128	-.266793	-.275321	-.282819	-.289377	-.295072	.384844
1.95	-.259732	-.269192	-.277524	-.284833	-.291210	-.296730	.379038
1.96	-.262285	-.271542	-.279679	-.286801	-.292997	-.298342	.373272
1.97	-.264788	-.273842	-.281785	-.288721	-.294737	-.299908	.367548
1.98	-.267241	-.276094	-.283843	-.290594	-.296431	-.301429	.361863
1.99	-.269644	-.278296	-.285854	-.292420	-.298079	-.302906	.356218
2.00	-.271998	-.280451	-.287818	-.294199	-.299682	-.304337	.350612

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$T(y)$
2.00	-.271998	-.280451	-.287818	-.294199	-.299682	-.304337	.350612
2.01	-.274303	-.282557	-.289734	-.295933	-.301239	-.305725	.345044
2.02	-.276559	-.284616	-.291604	-.297621	-.302752	-.307068	.339514
2.03	-.278767	-.286628	-.293427	-.299263	-.304220	-.308367	.334022
2.04	-.280927	-.288592	-.295204	-.300860	-.305643	-.309624	.328566
2.05	-.283039	-.290510	-.296935	-.302413	-.307023	-.310837	.323146
2.06	-.285103	-.292381	-.298621	-.303920	-.308359	-.312007	.317762
2.07	-.287120	-.294206	-.300262	-.305384	-.309652	-.313134	.312413
2.08	-.289091	-.295985	-.301857	-.306803	-.310901	-.314220	.307099
2.09	-.291014	-.297718	-.303408	-.308179	-.312108	-.315263	.301820
2.10	-.292892	-.299406	-.304915	-.309511	-.313272	-.316265	.296574
2.11	-.294724	-.301049	-.306377	-.310800	-.314394	-.317226	.291363
2.12	-.296509	-.302648	-.307796	-.312046	-.315474	-.318145	.286184
2.13	-.298250	-.304201	-.309171	-.313249	-.316512	-.319024	.281038
2.14	-.299945	-.305711	-.310503	-.314411	-.317509	-.319862	.275925
2.15	-.301595	-.307177	-.311792	-.315530	-.318465	-.320660	.270844
2.16	-.303201	-.308599	-.313039	-.316608	-.319379	-.321418	.265794
2.17	-.304763	-.309978	-.314243	-.317644	-.320254	-.322136	.260776
2.18	-.306280	-.311314	-.315405	-.318639	-.321088	-.322815	.255789
2.19	-.307754	-.312607	-.316525	-.319593	-.321882	-.323455	.250833
2.20	-.309184	-.313858	-.317604	-.320506	-.322636	-.324056	.245907
2.21	-.310571	-.315066	-.318641	-.321379	-.323351	-.324619	.241012
2.22	-.311915	-.316233	-.319637	-.322212	-.324027	-.325143	.236146
2.23	-.313217	-.317358	-.320593	-.323005	-.324664	-.325630	.231310
2.24	-.314476	-.318441	-.321508	-.323759	-.325262	-.326078	.226504
2.25	-.315693	-.319483	-.322383	-.324473	-.325822	-.326489	.221727
2.26	-.316868	-.320485	-.323218	-.325148	-.326344	-.326864	.216978
2.27	-.318001	-.321445	-.324013	-.325785	-.326828	-.327201	.212259
2.28	-.319094	-.322366	-.324769	-.326383	-.327275	-.327501	.207567
2.29	-.320145	-.323246	-.325486	-.326943	-.327684	-.327765	.202904
2.30	-.321155	-.324087	-.326164	-.327465	-.328056	-.327994	.198270
2.31	-.322125	-.324888	-.326803	-.327950	-.328392	-.328186	.193663
2.32	-.323054	-.325649	-.327404	-.328396	-.328691	-.328343	.189083
2.33	-.323944	-.326372	-.327967	-.328806	-.328953	-.328464	.184531
2.34	-.324794	-.327056	-.328492	-.329179	-.329180	-.328551	.180007
2.35	-.325604	-.327701	-.328980	-.329516	-.329372	-.328602	.175509
2.36	-.326375	-.328308	-.329430	-.329816	-.329527	-.328620	.171039
2.37	-.327107	-.328877	-.329843	-.330079	-.329648	-.328603	.166595
2.38	-.327800	-.329408	-.330220	-.330307	-.329734	-.328552	.162178
2.39	-.328455	-.329902	-.330559	-.330500	-.329785	-.328467	.157787
2.40	-.329072	-.330359	-.330863	-.330657	-.329802	-.328350	.153423
2.41	-.329650	-.330778	-.331131	-.330779	-.329784	-.328198	.149085
2.42	-.330191	-.331161	-.331362	-.330866	-.329733	-.328015	.144774
2.43	-.330695	-.331507	-.331559	-.330919	-.329649	-.327798	.140488
2.44	-.331161	-.331817	-.331720	-.330938	-.329531	-.327549	.136228
2.45	-.331591	-.332092	-.331846	-.330922	-.329379	-.327268	.131994
2.46	-.331983	-.332330	-.331937	-.330873	-.329196	-.326955	.127785
2.47	-.332339	-.332533	-.331994	-.330790	-.328979	-.326611	.123602
2.48	-.332659	-.332701	-.332017	-.330674	-.328730	-.326235	.119445
2.49	-.332943	-.332834	-.332005	-.330525	-.328450	-.325828	.115313
2.50	-.333192	-.332932	-.331960	-.330343	-.328137	-.325390	.111206



Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.25	0.30	0.35	0.40	0.45	0.50	$T(y)$
2.50	-.333192	-.332932	-.331960	-.330342	-.328137	-.325390	.111206
2.51	-.333404	-.332996	-.331882	-.330129	-.327793	-.324922	.107124
2.52	-.333582	-.333025	-.331770	-.329882	-.327418	-.324424	.103068
2.53	-.333725	-.333021	-.331625	-.329604	-.327011	-.323895	.099036
2.54	-.333833	-.332982	-.331448	-.329294	-.326574	-.323337	.095030
2.55	-.333906	-.332911	-.331238	-.328952	-.326107	-.322750	.091048
2.56	-.333946	-.332806	-.330996	-.328579	-.325609	-.322133	.087091
2.57	-.333951	-.332668	-.330722	-.328175	-.325082	-.321487	.083159
2.58	-.333923	-.332498	-.330416	-.327741	-.324524	-.320812	.079252
2.59	-.333861	-.332295	-.330079	-.327276	-.323937	-.320109	.075369
2.60	-.333766	-.332060	-.329711	-.326780	-.323321	-.319378	.071511
2.61	-.333638	-.331792	-.329311	-.326255	-.322676	-.318619	.067678
2.62	-.333477	-.331494	-.328881	-.325700	-.322002	-.317832	.063868
2.63	-.333284	-.331163	-.328421	-.325116	-.321300	-.317017	.060084
2.64	-.333058	-.330802	-.327930	-.324503	-.320570	-.316176	.056324
2.65	-.332801	-.330409	-.327410	-.323860	-.319812	-.315308	.052588
2.66	-.332512	-.329986	-.326859	-.323189	-.319026	-.314412	.048876
2.67	-.332191	-.329533	-.326280	-.322490	-.318213	-.313491	.045189
2.68	-.331839	-.329049	-.325671	-.321762	-.317372	-.312543	.041526
2.69	-.331456	-.328535	-.325033	-.321006	-.316505	-.311570	.037888
2.70	-.331042	-.327991	-.324366	-.320223	-.315611	-.310571	.034273
2.71	-.330598	-.327418	-.323671	-.319412	-.314690	-.309546	.030683
2.72	-.330124	-.326816	-.322948	-.318574	-.313744	-.308497	.027117
2.73	-.329619	-.326185	-.322197	-.317710	-.312771	-.307422	.023575
2.74	-.329085	-.325525	-.321418	-.316818	-.311773	-.306323	.020058
2.75	-.328521	-.324837	-.320612	-.315900	-.310750	-.305199	.016564
2.76	-.327928	-.324120	-.319778	-.314956	-.309701	-.304052	.013094
2.77	-.327306	-.323375	-.318918	-.313986	-.308627	-.302881	.009649
2.78	-.326655	-.322603	-.318030	-.312991	-.307529	-.301686	.006228
2.79	-.325976	-.321803	-.317117	-.311970	-.306407	-.300467	.002830
2.80	-.325268	-.320976	-.316177	-.310923	-.305260	-.299226	-.000543
2.81	-.324532	-.320122	-.315211	-.309852	-.304090	-.297962	-.003892
2.82	-.323769	-.319241	-.314220	-.308757	-.302896	-.296675	-.007217
2.83	-.322978	-.318334	-.313203	-.307636	-.301678	-.295366	-.010518
2.84	-.322159	-.317400	-.312161	-.306492	-.300438	-.294034	-.013795
2.85	-.321314	-.316440	-.311094	-.305324	-.299174	-.292681	-.017048
2.86	-.320441	-.315455	-.310002	-.304132	-.297888	-.291307	-.020277
2.87	-.319542	-.314444	-.308886	-.302917	-.296580	-.289911	-.023482
2.88	-.318617	-.313408	-.307746	-.301679	-.295249	-.288494	-.026663
2.89	-.317666	-.312347	-.306581	-.300417	-.293897	-.287056	-.029820
2.90	-.316689	-.311261	-.305393	-.299133	-.292523	-.285598	-.032953
2.91	-.315686	-.310151	-.304182	-.297827	-.291128	-.284120	-.036062
2.92	-.314658	-.309016	-.302947	-.296499	-.289712	-.282621	-.039147
2.93	-.313605	-.307857	-.301689	-.295148	-.288274	-.281103	-.042207
2.94	-.312527	-.306675	-.300409	-.293776	-.286817	-.279565	-.045244
2.95	-.311424	-.305469	-.299106	-.292383	-.285339	-.278008	-.048257
2.96	-.310297	-.304239	-.297781	-.290968	-.283840	-.276432	-.051245
2.97	-.309146	-.302987	-.296434	-.289533	-.282322	-.274837	-.054210
2.98	-.307971	-.301712	-.295065	-.288077	-.280785	-.273223	-.057150
2.99	-.306772	-.300414	-.293675	-.286600	-.279228	-.271591	-.060067
3.00	-.305550	-.299094	-.292264	-.285104	-.277652	-.269942	-.062959

Table of  $R^*(y, \varphi)$  and  $T^*(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$T^*(y)$
.00	-.261168	-.290097	-.319942	-.350847	-.382980	-.416533	1.000000
.01	-.265943	-.294822	-.324611	-.355454	-.387518	-.420995	1.000050
.02	-.270705	-.299532	-.329265	-.360045	-.392038	-.425438	1.000200
.03	-.275453	-.304229	-.333903	-.364619	-.396541	-.429862	1.000450
.04	-.280189	-.308911	-.338526	-.369176	-.401025	-.434266	1.000800
.05	-.284911	-.313579	-.343133	-.373716	-.405492	-.438652	1.001249
.06	-.289619	-.318231	-.347724	-.378239	-.409940	-.443017	1.001798
.07	-.294314	-.322869	-.352299	-.382744	-.414369	-.447363	1.002447
.08	-.298995	-.327491	-.356857	-.387232	-.418779	-.451688	1.003195
.09	-.303661	-.332098	-.361398	-.391702	-.423170	-.455994	1.004042
.10	-.308313	-.336689	-.365923	-.396153	-.427542	-.460278	1.004988
.11	-.312950	-.341264	-.370430	-.400587	-.431895	-.464543	1.006032
.12	-.317572	-.345824	-.374920	-.405002	-.436228	-.468786	1.007174
.13	-.322179	-.350366	-.379393	-.409398	-.440541	-.473009	1.008414
.14	-.326770	-.354892	-.383848	-.413775	-.444834	-.477210	1.009752
.15	-.331346	-.359402	-.388285	-.418133	-.449106	-.481390	1.011187
.16	-.335906	-.363894	-.392704	-.422472	-.453359	-.485549	1.012718
.17	-.340451	-.368369	-.397104	-.426792	-.457590	-.489685	1.014346
.18	-.344978	-.372827	-.401486	-.431091	-.461801	-.493800	1.016069
.19	-.349490	-.377267	-.405849	-.435371	-.465991	-.497893	1.017887
.20	-.353984	-.381690	-.410193	-.439631	-.470160	-.501963	1.019800
.21	-.358462	-.386094	-.414518	-.443871	-.474307	-.506011	1.021807
.22	-.362923	-.390480	-.418824	-.448090	-.478433	-.510037	1.023908
.23	-.367366	-.394848	-.423110	-.452288	-.482537	-.514040	1.026101
.24	-.371792	-.399197	-.427377	-.456466	-.486620	-.518019	1.028387
.25	-.376201	-.403527	-.431623	-.460623	-.490680	-.521976	1.030763
.26	-.380591	-.407838	-.435850	-.464758	-.494718	-.525909	1.033231
.27	-.384963	-.412130	-.440056	-.468872	-.498733	-.529819	1.035788
.28	-.389317	-.416403	-.444241	-.472965	-.502726	-.533705	1.038435
.29	-.393652	-.420656	-.448406	-.477036	-.506697	-.537568	1.041170
.30	-.397969	-.424889	-.452550	-.481085	-.510644	-.541407	1.043993
.31	-.402267	-.429102	-.456674	-.485111	-.514568	-.545221	1.046902
.32	-.406545	-.433295	-.460775	-.489116	-.518469	-.549011	1.049897
.33	-.410805	-.437468	-.464856	-.493098	-.522346	-.552777	1.052977
.34	-.415044	-.441620	-.468915	-.497058	-.526200	-.556518	1.056140
.35	-.419264	-.445752	-.472952	-.500995	-.530030	-.560235	1.059387
.36	-.423465	-.449862	-.476967	-.504908	-.533837	-.563926	1.062716
.37	-.427645	-.453951	-.480960	-.508799	-.537619	-.567593	1.066125
.38	-.431805	-.458019	-.484930	-.512666	-.541376	-.571234	1.069614
.39	-.435944	-.462066	-.488879	-.516510	-.545110	-.574851	1.073183
.40	-.440063	-.466091	-.492804	-.520331	-.548819	-.578441	1.076828
.41	-.444161	-.470094	-.496707	-.524127	-.552503	-.582006	1.080551
.42	-.448237	-.474075	-.500587	-.527900	-.556162	-.585545	1.084348
.43	-.452293	-.478034	-.504443	-.531649	-.559797	-.589059	1.088220
.44	-.456327	-.481970	-.508276	-.535373	-.563406	-.592546	1.092165
.45	-.460340	-.485884	-.512086	-.539073	-.566990	-.596007	1.096182
.46	-.464331	-.489775	-.515872	-.542748	-.570548	-.599442	1.100269
.47	-.468300	-.493644	-.519635	-.546399	-.574081	-.602850	1.104425
.48	-.472247	-.497489	-.523373	-.550024	-.577588	-.606232	1.108649
.49	-.476172	-.501311	-.527087	-.553625	-.581069	-.609587	1.112940
.50	-.480074	-.505110	-.530777	-.557201	-.584524	-.612915	1.117295

$$R(y, \varphi) = R^*(y, \varphi) + \frac{1+f}{y} U(y/k)$$

$$T(y) = T^*(y)/y^2$$

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$T(y)$
.50	.785635	.736149	.689983	.646700	.605938	.567398	4.469181
.51	.765166	.716484	.671045	.628423	.588269	.550289	4.312629
.52	.745190	.697287	.652552	.610573	.571008	.533573	4.164929
.53	.725685	.678537	.634486	.593131	.554139	.517235	4.025417
.54	.706633	.660217	.616831	.576082	.537648	.501261	3.893492
.55	.688015	.642310	.599569	.559410	.521520	.485636	3.768603
.56	.669814	.624800	.582685	.543101	.505740	.470348	3.650253
.57	.652013	.607670	.566166	.527141	.490297	.455385	3.537985
.58	.634598	.590908	.549998	.511518	.475178	.440734	3.431381
.59	.617554	.574499	.534168	.496220	.460371	.426385	3.330059
.60	.600867	.558431	.518664	.481235	.445866	.412328	3.233670
.61	.584525	.542691	.503475	.466552	.431653	.398552	3.141890
.62	.568515	.527269	.488590	.452162	.417722	.385049	3.054423
.63	.552826	.512153	.473998	.438054	.404063	.371810	2.970997
.64	.537447	.497333	.459691	.424219	.390668	.358827	2.891360
.65	.522367	.482799	.445658	.410649	.377529	.346090	2.815278
.66	.507578	.468543	.431891	.397336	.364637	.333594	2.742538
.67	.493068	.454555	.418383	.384271	.351986	.321331	2.672939
.68	.478831	.440827	.405124	.371447	.339567	.309294	2.606298
.69	.464856	.427351	.392107	.358856	.327375	.297476	2.542442
.70	.451136	.414120	.379326	.346493	.315403	.285871	2.481213
.71	.437664	.401126	.366773	.334351	.303645	.274474	2.422464
.72	.424432	.388362	.354442	.322423	.292094	.263279	2.366055
.73	.411433	.375822	.342327	.310703	.280745	.252280	2.311858
.74	.398661	.363500	.330422	.299186	.269593	.241473	2.259755
.75	.386109	.351390	.318720	.287867	.258632	.230851	2.209632
.76	.373771	.339485	.307218	.276740	.247859	.220411	2.161386
.77	.361641	.327781	.295909	.265800	.237267	.210149	2.114918
.78	.349715	.316272	.284788	.255043	.226852	.200059	2.070137
.79	.337986	.304954	.273852	.244465	.216611	.190138	2.026958
.80	.326449	.293820	.263095	.234060	.206539	.180381	1.985299
.81	.315100	.282868	.252512	.223825	.196632	.170786	1.945086
.82	.303934	.272093	.242101	.213755	.186886	.161347	1.906248
.83	.292946	.261489	.231856	.203848	.177297	.152062	1.868716
.84	.282133	.251054	.221774	.194099	.167863	.142928	1.832431
.85	.271490	.240783	.211851	.184504	.158579	.133940	1.797331
.86	.261013	.230673	.202084	.175061	.149443	.125097	1.763361
.87	.250698	.220719	.192470	.165765	.140451	.116394	1.730470
.88	.240542	.210919	.183004	.156615	.131600	.107830	1.698607
.89	.230542	.201270	.173684	.147607	.122888	.099401	1.667726
.90	.220693	.191768	.164507	.138737	.114312	.091104	1.637783
.91	.210993	.182409	.155470	.130004	.105868	.082938	1.608736
.92	.201439	.173192	.146570	.121405	.097555	.074899	1.580545
.93	.192027	.164112	.137804	.112936	.089369	.066985	1.553174
.94	.182755	.155168	.129170	.104596	.081309	.059194	1.526587
.95	.173619	.146357	.120665	.096381	.073372	.051523	1.500751
.96	.164618	.137677	.112286	.088291	.065557	.043971	1.475634
.97	.155748	.129123	.104032	.080321	.057859	.036535	1.451205
.98	.147008	.120696	.095901	.072471	.050279	.029214	1.427436
.99	.138394	.112391	.087889	.064738	.042813	.022005	1.404301
1.00	.129904	.104207	.079995	.057120	.035460	.014906	1.381773

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$T(y)$
1.00	.129904	.104207	.079995	.057120	.035460	.014906	1.381773
1.01	.121537	.096142	.072217	.049616	.028217	.007916	1.359828
1.02	.113289	.088194	.064552	.042222	.021083	.001033	1.338443
1.03	.105159	.080360	.057000	.034938	.014057	-.005745	1.317595
1.04	.097145	.072639	.049557	.027762	.007136	-.012419	1.297264
1.05	.089245	.065029	.042223	.020691	.000319	-.018992	1.277429
1.06	.081457	.057528	.034995	.013725	-.006396	-.025464	1.258071
1.07	.073779	.050134	.027872	.006861	-.013011	-.031838	1.239173
1.08	.066209	.042846	.020852	.000098	-.019526	-.038114	1.220716
1.09	.058745	.035662	.013934	-.006565	-.025944	-.044294	1.202684
1.10	.051387	.028580	.007116	-.013131	-.032266	-.050380	1.185061
1.11	.044132	.021599	.000396	-.019599	-.038492	-.056373	1.167833
1.12	.036978	.014717	-.006226	-.025973	-.044626	-.062273	1.150984
1.13	.029925	.007933	-.012753	-.032252	-.050657	-.068083	1.134502
1.14	.022970	.001245	-.019185	-.038439	-.056617	-.073804	1.118372
1.15	.016113	-.005347	-.025525	-.044535	-.062478	-.079437	1.102583
1.16	.009351	-.011846	-.031772	-.050541	-.068250	-.084982	1.087122
1.17	.002685	-.018253	-.037929	-.056458	-.073934	-.090442	1.071977
1.18	-.003889	-.024568	-.043997	-.062287	-.079533	-.095816	1.057139
1.19	-.010371	-.030793	-.049976	-.068030	-.085047	-.101107	1.042595
1.20	-.016762	-.036930	-.055869	-.073687	-.090476	-.106316	1.028337
1.21	-.023064	-.042979	-.061676	-.079260	-.095823	-.111443	1.014353
1.22	-.029277	-.048941	-.067397	-.084750	-.101088	-.116489	1.000636
1.23	-.035403	-.054819	-.073035	-.090157	-.106271	-.121455	.987176
1.24	-.041443	-.060611	-.078591	-.095483	-.111375	-.126343	.973965
1.25	-.047398	-.066321	-.084064	-.100729	-.116400	-.131153	.960994
1.26	-.053269	-.071948	-.089457	-.105895	-.121347	-.135886	.948256
1.27	-.059057	-.077494	-.094770	-.110983	-.126216	-.140543	.935742
1.28	-.064763	-.082960	-.100004	-.115993	-.131010	-.145124	.923447
1.29	-.070388	-.088346	-.105161	-.120927	-.135727	-.149632	.911362
1.30	-.075933	-.093654	-.110240	-.125785	-.140371	-.154066	.899482
1.31	-.081399	-.098884	-.115243	-.130568	-.144940	-.158427	.887799
1.32	-.086786	-.104037	-.120170	-.135277	-.149436	-.162716	.876308
1.33	-.092097	-.109115	-.125023	-.139912	-.153860	-.166934	.865003
1.34	-.097331	-.114117	-.129802	-.144475	-.158213	-.171081	.853877
1.35	-.102489	-.119045	-.134508	-.148966	-.162495	-.175159	.842926
1.36	-.107572	-.123900	-.139142	-.153386	-.166707	-.179168	.832145
1.37	-.112581	-.128682	-.143704	-.157736	-.170849	-.183109	.821527
1.38	-.117517	-.133392	-.148196	-.162016	-.174923	-.186982	.811068
1.39	-.122381	-.138031	-.152618	-.166227	-.178929	-.190788	.800765
1.40	-.127172	-.142599	-.156970	-.170369	-.182868	-.194527	.790611
1.41	-.131893	-.147097	-.161254	-.174444	-.186740	-.198202	.780602
1.42	-.136543	-.151526	-.165469	-.178453	-.190547	-.201811	.770735
1.43	-.141123	-.155887	-.169618	-.182395	-.194288	-.205355	.761006
1.44	-.145635	-.160180	-.173699	-.186271	-.197964	-.208836	.751410
1.45	-.150078	-.164406	-.177715	-.190082	-.201576	-.212254	.741944
1.46	-.154454	-.168566	-.181665	-.193829	-.205125	-.215610	.732603
1.47	-.158762	-.172659	-.185550	-.197512	-.208611	-.218903	.723386
1.48	-.163004	-.176687	-.189371	-.201132	-.212034	-.222135	.714287
1.49	-.167181	-.180651	-.193129	-.204689	-.215396	-.225306	.705305
1.50	-.171292	-.184550	-.196823	-.208184	-.218697	-.228416	.696435

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$T(y)$
1.50	-.171292	-.184550	-.196823	-.208184	-.218697	-.228416	.696435
1.51	-.175338	-.188386	-.200455	-.211617	-.221937	-.231467	.687676
1.52	-.179320	-.192159	-.204024	-.214989	-.225116	-.234459	.679023
1.53	-.183239	-.195869	-.207533	-.218301	-.228237	-.237392	.670474
1.54	-.187095	-.199518	-.210980	-.221553	-.231298	-.240266	.662026
1.55	-.190889	-.203105	-.214367	-.224745	-.234300	-.243083	.653677
1.56	-.194620	-.206631	-.217694	-.227879	-.237245	-.245843	.645425
1.57	-.198291	-.210097	-.220962	-.230954	-.240131	-.248546	.637266
1.58	-.201900	-.213503	-.224171	-.233971	-.242961	-.251192	.629198
1.59	-.205449	-.216850	-.227321	-.236930	-.245734	-.253783	.621219
1.60	-.208939	-.220138	-.230414	-.239833	-.248451	-.256319	.613327
1.61	-.212369	-.223368	-.233449	-.242678	-.251112	-.258800	.605520
1.62	-.215740	-.226540	-.236427	-.245468	-.253718	-.261226	.597796
1.63	-.219053	-.229654	-.239349	-.248202	-.256270	-.263598	.590152
1.64	-.222308	-.232711	-.242215	-.250881	-.258766	-.265917	.582587
1.65	-.225505	-.235712	-.245025	-.253506	-.261209	-.268183	.575099
1.66	-.228645	-.238657	-.247779	-.256075	-.263599	-.270396	.567686
1.67	-.231729	-.241546	-.250479	-.258591	-.265935	-.272557	.560346
1.68	-.234757	-.244380	-.253125	-.261054	-.268219	-.274666	.553077
1.69	-.237729	-.247159	-.255717	-.263463	-.270451	-.276724	.545879
1.70	-.240645	-.249884	-.258255	-.265820	-.272631	-.278731	.538749
1.71	-.243507	-.252554	-.260741	-.268125	-.274759	-.280687	.531686
1.72	-.246315	-.255172	-.263173	-.270378	-.276836	-.282593	.524689
1.73	-.249068	-.257736	-.265553	-.272579	-.278863	-.284449	.517755
1.74	-.251768	-.260247	-.267882	-.274730	-.280840	-.286256	.510884
1.75	-.254414	-.262706	-.270159	-.276829	-.282767	-.288014	.504075
1.76	-.257007	-.265113	-.272385	-.278879	-.284644	-.289723	.497325
1.77	-.259549	-.267469	-.274560	-.280878	-.286473	-.291384	.490634
1.78	-.262038	-.269773	-.276684	-.282828	-.288252	-.292998	.484001
1.79	-.264475	-.272026	-.278759	-.284729	-.289984	-.294563	.477424
1.80	-.266861	-.274229	-.280784	-.286581	-.291667	-.296082	.470902
1.81	-.269196	-.276382	-.282760	-.288385	-.293303	-.297554	.464435
1.82	-.271480	-.278485	-.284687	-.290141	-.294892	-.298979	.458020
1.83	-.273714	-.280539	-.286566	-.291849	-.296433	-.300359	.451658
1.84	-.275898	-.282543	-.288396	-.293510	-.297929	-.301693	.445346
1.85	-.278033	-.284500	-.290179	-.295123	-.299378	-.302981	.439085
1.86	-.280119	-.286407	-.291914	-.296690	-.300781	-.304225	.432873
1.87	-.282155	-.288267	-.293602	-.298211	-.302139	-.305424	.426709
1.88	-.284143	-.290079	-.295243	-.299686	-.303452	-.306579	.420593
1.89	-.286083	-.291844	-.296838	-.301115	-.304720	-.307690	.414523
1.90	-.287975	-.293562	-.298386	-.302499	-.305944	-.308757	.408499
1.91	-.289820	-.295233	-.299889	-.303838	-.307123	-.309781	.402520
1.92	-.291617	-.296858	-.301346	-.305133	-.308259	-.310762	.396585
1.93	-.293368	-.298436	-.302759	-.306383	-.309351	-.311701	.390693
1.94	-.295072	-.299970	-.304126	-.307589	-.310401	-.312597	.384844
1.95	-.296730	-.301458	-.305449	-.308752	-.311407	-.313451	.379038
1.96	-.298342	-.302900	-.306728	-.309871	-.312371	-.314264	.373272
1.97	-.299908	-.304299	-.307963	-.310947	-.313293	-.315036	.367548
1.98	-.301429	-.305652	-.309154	-.311981	-.314173	-.315766	.361863
1.99	-.302906	-.306962	-.310302	-.312972	-.315012	-.316456	.356218
2.00	-.304337	-.308228	-.311407	-.313921	-.315809	-.317106	.350612

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$T(y)$
2.00	-.304337	-.308228	-.311407	-.313921	-.315809	-.317106	.350612
2.01	-.305725	-.309451	-.312470	-.314829	-.316566	-.317715	.345044
2.02	-.307068	-.310630	-.313491	-.315695	-.317282	-.318285	.339514
2.03	-.308367	-.311766	-.314469	-.316520	-.317958	-.318816	.334022
2.04	-.309624	-.312860	-.315406	-.317304	-.318593	-.319307	.328566
2.05	-.310837	-.313912	-.316301	-.318048	-.319190	-.319760	.323146
2.06	-.312007	-.314922	-.317155	-.318751	-.319747	-.320175	.317762
2.07	-.313134	-.315890	-.317969	-.319415	-.320264	-.320551	.312413
2.08	-.314220	-.316817	-.318742	-.320039	-.320744	-.320889	.307099
2.09	-.315263	-.317703	-.319475	-.320623	-.321184	-.321190	.301820
2.10	-.316265	-.318548	-.320168	-.321169	-.321587	-.321454	.296574
2.11	-.317226	-.319352	-.320821	-.321676	-.321952	-.321681	.291363
2.12	-.318145	-.320116	-.321436	-.322144	-.322279	-.321871	.286184
2.13	-.319024	-.320841	-.322011	-.322575	-.322569	-.322025	.281038
2.14	-.319862	-.321526	-.322547	-.322968	-.322822	-.322143	.275925
2.15	-.320660	-.322171	-.323045	-.323323	-.323039	-.322225	.270844
2.16	-.321418	-.322777	-.323505	-.323640	-.323219	-.322271	.265794
2.17	-.322136	-.323345	-.323927	-.323921	-.323363	-.322283	.260776
2.18	-.322815	-.323874	-.324311	-.324166	-.323472	-.322260	.255789
2.19	-.323455	-.324365	-.324658	-.324373	-.323545	-.322202	.250833
2.20	-.324056	-.324819	-.324968	-.324545	-.323582	-.322110	.245907
2.21	-.324619	-.325234	-.325242	-.324681	-.323585	-.321984	.241012
2.22	-.325143	-.325612	-.325479	-.324781	-.323554	-.321824	.236146
2.23	-.325630	-.325953	-.325680	-.324847	-.323488	-.321631	.231310
2.24	-.326078	-.326258	-.325845	-.324877	-.323388	-.321405	.226504
2.25	-.326489	-.326525	-.325974	-.324872	-.323254	-.321146	.221727
2.26	-.326864	-.326757	-.326068	-.324833	-.323086	-.320855	.216978
2.27	-.327201	-.326953	-.326127	-.324760	-.322886	-.320531	.212259
2.28	-.327501	-.327112	-.326151	-.324654	-.322653	-.320176	.207567
2.29	-.327765	-.327237	-.326141	-.324513	-.322387	-.319788	.202904
2.30	-.327994	-.327326	-.326096	-.324340	-.322088	-.319370	.198270
2.31	-.328186	-.327381	-.326018	-.324133	-.321758	-.318920	.193663
2.32	-.328343	-.327400	-.325905	-.323894	-.321396	-.318439	.189083
2.33	-.328464	-.327386	-.325760	-.323622	-.321002	-.317928	.184531
2.34	-.328551	-.327337	-.325581	-.323318	-.320577	-.317387	.180007
2.35	-.328602	-.327255	-.325370	-.322982	-.320121	-.316815	.175509
2.36	-.328620	-.327139	-.325126	-.322614	-.319635	-.316214	.171039
2.37	-.328603	-.326990	-.324849	-.322215	-.319118	-.315584	.166595
2.38	-.328552	-.326808	-.324541	-.321785	-.318571	-.314924	.162178
2.39	-.328467	-.326593	-.324201	-.321324	-.317994	-.314236	.157787
2.40	-.328350	-.326346	-.323829	-.320833	-.317388	-.313519	.153423
2.41	-.328198	-.326066	-.323426	-.320311	-.316752	-.312773	.149085
2.42	-.328015	-.325755	-.322992	-.319760	-.316087	-.312000	.144774
2.43	-.327798	-.325411	-.322527	-.319178	-.315394	-.311199	.140488
2.44	-.327549	-.325037	-.322032	-.318568	-.314672	-.310370	.136228
2.45	-.327268	-.324631	-.321507	-.317928	-.313922	-.309514	.131994
2.46	-.326955	-.324195	-.320952	-.317259	-.313144	-.308632	.127785
2.47	-.326611	-.323728	-.320367	-.316561	-.312338	-.307722	.123602
2.48	-.326235	-.323230	-.319753	-.315835	-.311505	-.306786	.119445
2.49	-.325828	-.322703	-.319110	-.315081	-.310645	-.305825	.115313
2.50	-.325390	-.322145	-.318438	-.314299	-.309758	-.304837	.111206

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.50	0.55	0.60	0.65	0.70	0.75	$T(y)$
2.50	-.325390	-.322145	-.318438	-.314299	-.309758	-.304837	.111206
2.51	-.324922	-.321558	-.317737	-.313490	-.308844	-.303824	.107124
2.52	-.324424	-.320942	-.317008	-.312653	-.307904	-.302785	.103068
2.53	-.323895	-.320297	-.316251	-.311789	-.306938	-.301721	.099036
2.54	-.323337	-.319623	-.315467	-.310899	-.305947	-.300633	.095030
2.55	-.322750	-.318920	-.314654	-.309982	-.304929	-.299520	.091048
2.56	-.322133	-.318190	-.313815	-.309038	-.303887	-.298383	.087091
2.57	-.321487	-.317431	-.312948	-.308069	-.302819	-.297222	.083159
2.58	-.320812	-.316645	-.312055	-.307074	-.301727	-.296037	.079252
2.59	-.320109	-.315831	-.311136	-.306054	-.300611	-.294829	.075369
2.60	-.319378	-.314989	-.310190	-.305008	-.299470	-.293598	.071511
2.61	-.318619	-.314121	-.309218	-.303937	-.298305	-.292344	.067678
2.62	-.317832	-.313227	-.308221	-.302842	-.297117	-.291067	.063868
2.63	-.317017	-.312306	-.307198	-.301723	-.295905	-.289768	.060084
2.64	-.316176	-.311358	-.306150	-.300579	-.294670	-.288447	.056324
2.65	-.315308	-.310385	-.305077	-.299411	-.293413	-.287104	.052588
2.66	-.314412	-.309386	-.303979	-.298220	-.292133	-.285739	.048876
2.67	-.313491	-.308362	-.302857	-.297005	-.290830	-.284353	.045189
2.68	-.312543	-.307313	-.301711	-.295768	-.289506	-.282947	.041526
2.69	-.311570	-.306238	-.300542	-.294507	-.288159	-.281519	.037888
2.70	-.310571	-.305139	-.299348	-.293224	-.286791	-.280071	.034273
2.71	-.309546	-.304016	-.298131	-.291919	-.285402	-.278603	.030683
2.72	-.308497	-.302869	-.296892	-.290591	-.283992	-.277115	.027117
2.73	-.307422	-.301698	-.295629	-.289242	-.282561	-.275607	.023575
2.74	-.306323	-.300503	-.294344	-.287872	-.281110	-.274079	.020058
2.75	-.305199	-.299285	-.293036	-.286480	-.279638	-.272533	.016564
2.76	-.304052	-.298044	-.291707	-.285067	-.278147	-.270967	.013094
2.77	-.302881	-.296780	-.290355	-.283633	-.276636	-.269383	.009649
2.78	-.301686	-.295493	-.288983	-.282179	-.275105	-.267781	.006228
2.79	-.300467	-.294185	-.287589	-.280705	-.273555	-.266160	.002830
2.80	-.299226	-.292854	-.286174	-.279210	-.271986	-.264522	-.000543
2.81	-.297962	-.291501	-.284738	-.277696	-.270399	-.262866	-.003892
2.82	-.296675	-.290127	-.283281	-.276163	-.268793	-.261192	-.007217
2.83	-.295366	-.288732	-.281805	-.274610	-.267169	-.259502	-.010518
2.84	-.294034	-.287315	-.280308	-.273039	-.265527	-.257794	-.013795
2.85	-.292681	-.285878	-.278792	-.271448	-.263868	-.256070	-.017048
2.86	-.291307	-.284420	-.277256	-.269840	-.262191	-.254330	-.020277
2.87	-.289911	-.282942	-.275702	-.268213	-.260497	-.252574	-.023482
2.88	-.288494	-.281444	-.274128	-.266568	-.258786	-.250801	-.026663
2.89	-.287056	-.279927	-.272535	-.264906	-.257059	-.249014	-.029820
2.90	-.285598	-.278390	-.270924	-.263226	-.255315	-.247211	-.032953
2.91	-.284120	-.276833	-.269295	-.261529	-.253555	-.245393	-.036062
2.92	-.282621	-.275258	-.267648	-.259815	-.251780	-.243560	-.039147
2.93	-.281103	-.273664	-.265983	-.258085	-.249988	-.241713	-.042207
2.94	-.279565	-.272051	-.264301	-.256338	-.248182	-.239851	-.045244
2.95	-.278008	-.270420	-.262601	-.254575	-.246360	-.237975	-.048257
2.96	-.276432	-.268771	-.260885	-.252796	-.244524	-.236086	-.051245
2.97	-.274837	-.267105	-.259152	-.251002	-.242673	-.234183	-.054210
2.98	-.273223	-.265421	-.257403	-.249192	-.240807	-.232267	-.057150
2.99	-.271591	-.263719	-.255637	-.247367	-.238928	-.230337	-.060067
3.00	-.269942	-.262001	-.253856	-.245527	-.237035	-.228395	-.062959

Table of  $R^*(y, \varphi)$  and  $T^*(y)$ 

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$T^*(y)$
.00	-.416533	-.451738	-.488872	-.528269	-.570347	-.615626	1.000000
.01	-.420995	-.456116	-.493156	-.532450	-.574414	-.619567	1.000050
.02	-.425438	-.460473	-.497419	-.536609	-.578457	-.623483	1.000200
.03	-.429862	-.464810	-.501660	-.540745	-.582476	-.627374	1.000450
.04	-.434266	-.469127	-.505880	-.544858	-.586472	-.631239	1.000800
.05	-.438652	-.473423	-.510077	-.548948	-.590443	-.635080	1.001249
.06	-.443017	-.477698	-.514253	-.553014	-.594390	-.638895	1.001798
.07	-.447363	-.481952	-.518407	-.557058	-.598313	-.642685	1.002447
.08	-.451688	-.486185	-.522538	-.561078	-.602211	-.646449	1.003195
.09	-.455994	-.490396	-.526647	-.565074	-.606084	-.650187	1.004042
.10	-.460278	-.494586	-.530733	-.569047	-.609932	-.653899	1.004988
.11	-.464543	-.498754	-.534796	-.572995	-.613756	-.657585	1.006032
.12	-.468786	-.502900	-.538836	-.576920	-.617554	-.661244	1.007174
.13	-.473009	-.507024	-.542853	-.580820	-.621326	-.664878	1.008414
.14	-.477210	-.511126	-.546847	-.584696	-.625074	-.668484	1.009752
.15	-.481390	-.515205	-.550816	-.588547	-.628795	-.672065	1.011187
.16	-.485549	-.519262	-.554763	-.592373	-.632491	-.675618	1.012718
.17	-.489685	-.523296	-.558685	-.596174	-.636160	-.679144	1.014346
.18	-.493800	-.527307	-.562583	-.599950	-.639804	-.682643	1.016069
.19	-.497893	-.531294	-.566457	-.603701	-.643421	-.686115	1.017887
.20	-.501963	-.535259	-.570307	-.607427	-.647012	-.689560	1.019800
.21	-.506011	-.539200	-.574132	-.611127	-.650577	-.692977	1.021807
.22	-.510037	-.543117	-.577933	-.614801	-.654115	-.696367	1.023908
.23	-.514040	-.547010	-.581708	-.618450	-.657626	-.699729	1.026101
.24	-.518019	-.550880	-.585459	-.622072	-.661110	-.703063	1.028387
.25	-.521976	-.554725	-.589185	-.625669	-.664567	-.706369	1.030763
.26	-.525909	-.558546	-.592885	-.629239	-.667996	-.709647	1.033231
.27	-.529819	-.562343	-.596560	-.632783	-.671399	-.712896	1.035788
.28	-.533705	-.566114	-.600209	-.636300	-.674774	-.716118	1.038435
.29	-.537568	-.569862	-.603832	-.639791	-.678122	-.719311	1.041170
.30	-.541407	-.573584	-.607430	-.643254	-.681441	-.722475	1.043993
.31	-.545221	-.577281	-.611002	-.646691	-.684733	-.725611	1.046902
.32	-.549011	-.580953	-.614547	-.650101	-.687997	-.728718	1.049897
.33	-.552777	-.584600	-.618066	-.653484	-.691233	-.731796	1.052977
.34	-.556518	-.588221	-.621559	-.656839	-.694441	-.734846	1.056140
.35	-.560235	-.591816	-.625025	-.660167	-.697621	-.737866	1.059387
.36	-.563926	-.595386	-.628464	-.663467	-.700772	-.740857	1.062716
.37	-.567593	-.598929	-.631877	-.666740	-.703895	-.743819	1.066125
.38	-.571234	-.602447	-.635263	-.669984	-.706989	-.746751	1.069614
.39	-.574851	-.605938	-.638621	-.673201	-.710054	-.749654	1.073183
.40	-.578441	-.609403	-.641953	-.676390	-.713091	-.752527	1.076828
.41	-.582006	-.612842	-.645257	-.679551	-.716098	-.755371	1.080551
.42	-.585545	-.616254	-.648533	-.682683	-.719077	-.758184	1.084348
.43	-.589059	-.619639	-.651782	-.685787	-.722026	-.760968	1.088220
.44	-.592546	-.622997	-.655003	-.688863	-.724946	-.763722	1.092165
.45	-.596007	-.626328	-.658197	-.691910	-.727837	-.766446	1.096182
.46	-.599442	-.629632	-.661362	-.694928	-.730698	-.769140	1.100269
.47	-.602850	-.632909	-.664499	-.697917	-.733530	-.771804	1.104425
.48	-.606232	-.636158	-.667609	-.700878	-.736333	-.774438	1.108649
.49	-.609587	-.639380	-.670689	-.703809	-.739105	-.777041	1.112940
.50	-.612915	-.642575	-.673742	-.706711	-.741848	-.779614	1.117295

$$R(y, \varphi) = R^*(y, \varphi) + \frac{1+f}{y} \cdot U(y/k)$$

$$T(y) = T^*(y)/y^2$$



Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$T(y)$
.50	.567398	.530828	.496014	.462773	.430945	.400395	4.469181
.51	.550289	.514239	.479911	.447126	.415730	.385587	4.312629
.52	.533573	.498030	.464176	.431836	.400860	.371117	4.164929
.53	.517235	.482186	.448794	.416889	.386324	.356971	4.025417
.54	.501261	.466693	.433752	.402272	.372109	.343139	3.893492
.55	.485636	.451539	.419038	.387973	.358203	.329607	3.768603
.56	.470348	.436709	.404639	.373980	.344596	.316367	3.650253
.57	.455385	.422194	.390545	.360284	.331277	.303408	3.537985
.58	.440734	.407981	.376744	.346873	.318236	.290720	3.431381
.59	.426385	.394061	.363227	.333737	.305464	.278295	3.330059
.60	.412328	.380423	.349985	.320869	.292952	.266124	3.233670
.61	.398552	.367058	.337007	.308259	.280692	.254198	3.141890
.62	.385049	.353958	.324287	.295899	.268676	.242512	3.054423
.63	.371810	.341113	.311815	.283782	.256896	.231056	2.970997
.64	.358827	.328516	.299584	.271899	.245346	.219825	2.891360
.65	.346090	.316160	.287587	.260244	.234018	.208812	2.815278
.66	.333594	.304036	.275817	.248811	.222907	.198010	2.742538
.67	.321331	.292139	.264267	.237592	.212005	.187413	2.672939
.68	.309294	.280462	.252932	.226582	.201308	.177017	2.606298
.69	.297476	.268998	.241804	.215775	.190809	.166815	2.542442
.70	.285871	.257741	.230878	.205166	.180503	.156802	2.481213
.71	.274474	.246687	.220149	.194749	.170386	.146974	2.422464
.72	.263279	.235828	.209612	.184519	.160452	.137326	2.366055
.73	.252280	.225161	.199262	.174472	.150697	.127853	2.311858
.74	.241473	.214681	.189093	.164603	.141116	.118551	2.259755
.75	.230851	.204382	.179102	.154907	.131705	.109415	2.209632
.76	.220411	.194260	.169284	.145380	.122459	.100443	2.161386
.77	.210149	.184310	.159634	.136019	.113376	.091629	2.114918
.78	.200059	.174530	.150149	.126819	.104451	.082971	2.070137
.79	.190138	.164913	.140825	.117776	.095681	.074465	2.026958
.80	.180381	.155458	.131659	.108388	.087062	.066108	1.985299
.81	.170785	.146160	.122646	.100150	.078591	.057895	1.945086
.82	.161347	.137015	.113784	.091560	.070264	.049825	1.906248
.83	.152062	.128021	.105068	.083114	.062079	.041895	1.868716
.84	.142928	.119173	.096497	.074809	.054033	.034100	1.832431
.85	.133940	.110470	.088066	.066643	.046123	.026440	1.797331
.86	.125097	.101907	.079774	.058612	.038345	.018910	1.763361
.87	.116394	.093482	.071616	.050713	.030699	.011509	1.730470
.88	.107830	.085192	.063592	.042945	.023180	.004233	1.698607
.89	.099401	.077035	.055697	.035304	.015787	-.002918	1.667726
.90	.091104	.069008	.047929	.027789	.008516	-.009949	1.637783
.91	.082938	.061108	.040287	.020396	.001367	-.016860	1.608736
.92	.074899	.053333	.032767	.013124	-.005664	-.023655	1.580545
.93	.066985	.045680	.025368	.005970	-.012578	-.030335	1.553174
.94	.059194	.038148	.018086	-.001067	-.019377	-.036902	1.526587
.95	.051523	.030735	.010922	-.007990	-.026065	-.043358	1.500751
.96	.043971	.023437	.003871	-.014801	-.032641	-.049705	1.475634
.97	.036535	.016254	-.003068	-.021502	-.039109	-.055945	1.451205
.98	.029214	.009183	-.009896	-.028094	-.045470	-.062080	1.427436
.99	.022005	.002222	-.016616	-.034579	-.051726	-.068111	1.404301
1.00	.014906	-.004631	-.023230	-.040959	-.057879	-.074040	1.381773

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$T(y)$
1.00	.014906	-.004631	-.023230	-.040959	-.057879	-.074040	1.381773
1.01	.007916	-.011376	-.029738	-.047236	-.063929	-.079868	1.359828
1.02	.001033	-.018017	-.036143	-.053412	-.069880	-.085598	1.338443
1.03	-.005745	-.024554	-.042447	-.059487	-.075732	-.091230	1.317595
1.04	-.012419	-.030990	-.048650	-.065463	-.081486	-.096766	1.297264
1.05	-.018992	-.037326	-.054755	-.071343	-.087145	-.102208	1.277429
1.06	-.025464	-.043562	-.060763	-.077127	-.092709	-.107557	1.258071
1.07	-.031838	-.049702	-.066675	-.082816	-.098181	-.112814	1.239173
1.08	-.038114	-.055746	-.072492	-.088413	-.103561	-.117980	1.220716
1.09	-.044294	-.061696	-.078217	-.093918	-.108850	-.123058	1.202684
1.10	-.050380	-.067553	-.083851	-.099333	-.114050	-.128047	1.185061
1.11	-.056373	-.073317	-.089394	-.104659	-.119163	-.132950	1.167833
1.12	-.062273	-.078992	-.094847	-.109897	-.124189	-.137767	1.150984
1.13	-.068083	-.084577	-.100213	-.115048	-.129129	-.142499	1.134502
1.14	-.073804	-.090075	-.105493	-.120113	-.133985	-.147148	1.118372
1.15	-.079437	-.095485	-.110686	-.125095	-.138757	-.151715	1.102583
1.16	-.084982	-.100810	-.115795	-.129993	-.143448	-.156201	1.087122
1.17	-.090442	-.106050	-.120821	-.134808	-.148057	-.160607	1.071977
1.18	-.095816	-.111207	-.125765	-.139543	-.152586	-.164933	1.057139
1.19	-.101107	-.116281	-.130627	-.144197	-.157036	-.169182	1.042595
1.20	-.106316	-.121274	-.135409	-.148772	-.161407	-.173353	1.028337
1.21	-.111443	-.126186	-.140111	-.153269	-.165702	-.177447	1.014353
1.22	-.116489	-.131019	-.144736	-.157688	-.169920	-.181467	1.000636
1.23	-.121455	-.135773	-.149282	-.162031	-.174062	-.185412	.987176
1.24	-.126343	-.140450	-.153753	-.166299	-.178130	-.189283	.973965
1.25	-.131153	-.145050	-.158147	-.170492	-.182125	-.193081	.960994
1.26	-.135886	-.149574	-.162467	-.174611	-.186046	-.196808	.948256
1.27	-.140543	-.154023	-.166713	-.178657	-.189895	-.200463	.935742
1.28	-.145124	-.158399	-.170885	-.182631	-.193674	-.204048	.923447
1.29	-.149632	-.162700	-.174986	-.186533	-.197381	-.207564	.911362
1.30	-.154066	-.166930	-.179015	-.190365	-.201019	-.211010	.899482
1.31	-.158427	-.171087	-.182973	-.194127	-.204589	-.214389	.887799
1.32	-.162716	-.175174	-.186861	-.197821	-.208090	-.217700	.876308
1.33	-.166934	-.179191	-.190680	-.201445	-.211523	-.220945	.865003
1.34	-.171081	-.183138	-.194431	-.205002	-.214890	-.224124	.853877
1.35	-.175159	-.187016	-.198113	-.208493	-.218191	-.227238	.842926
1.36	-.179168	-.190826	-.201729	-.211917	-.221426	-.230287	.832145
1.37	-.183109	-.194569	-.205278	-.215275	-.224597	-.233272	.821527
1.38	-.186982	-.198245	-.208761	-.218569	-.227703	-.236195	.811068
1.39	-.190788	-.201856	-.212179	-.221798	-.230747	-.239054	.800765
1.40	-.194527	-.205400	-.215533	-.224964	-.233727	-.241852	.790611
1.41	-.198202	-.208881	-.218823	-.228067	-.236646	-.244588	.780602
1.42	-.201811	-.212297	-.222049	-.231107	-.239503	-.247264	.770735
1.43	-.205355	-.215649	-.225214	-.234086	-.242298	-.249880	.761006
1.44	-.208836	-.218939	-.228316	-.237003	-.245034	-.252436	.751410
1.45	-.212254	-.222167	-.231356	-.239860	-.247710	-.254933	.741944
1.46	-.215610	-.225332	-.234336	-.242657	-.250327	-.257372	.732603
1.47	-.218903	-.228437	-.237256	-.245394	-.252885	-.259753	.723386
1.48	-.222135	-.231481	-.240115	-.248073	-.255385	-.262077	.714287
1.49	-.225306	-.234465	-.242916	-.250693	-.257827	-.264344	.705305
1.50	-.228416	-.237390	-.245658	-.253256	-.260213	-.266555	.696435

Table of  $R(y, \Psi)$  and  $T(y)$ 

$y \backslash \Psi$	0.75	0.80	0.85	0.90	0.95	1.00	$T(y)$
1.50	-.228416	-.237390	-.245658	-.253256	-.260213	-.266555	.696435
1.51	-.231467	-.240255	-.248342	-.255761	-.262542	-.268710	.687676
1.52	-.234459	-.243063	-.250968	-.258209	-.264815	-.270811	.679023
1.53	-.237392	-.245812	-.253537	-.260601	-.267033	-.272856	.670474
1.54	-.240266	-.248504	-.256050	-.262938	-.269196	-.274848	.662026
1.55	-.243083	-.251139	-.258507	-.265219	-.271304	-.276786	.653677
1.56	-.245843	-.253718	-.260908	-.267445	-.273358	-.278671	.645425
1.57	-.248546	-.256241	-.263254	-.269617	-.275359	-.280503	.637266
1.58	-.251192	-.258708	-.265545	-.271736	-.277308	-.282283	.629198
1.59	-.253783	-.261120	-.267782	-.273801	-.279203	-.284012	.621219
1.60	-.256319	-.263478	-.269966	-.275813	-.281047	-.285689	.613327
1.61	-.258800	-.265782	-.272096	-.277773	-.282839	-.287316	.605520
1.62	-.261226	-.268032	-.274174	-.279681	-.284580	-.288892	.597796
1.63	-.263598	-.270230	-.276199	-.281537	-.286270	-.290419	.590152
1.64	-.265917	-.272374	-.278173	-.283343	-.287910	-.291896	.582587
1.65	-.268183	-.274466	-.280095	-.285097	-.289500	-.293324	.575099
1.66	-.270396	-.276507	-.281966	-.286802	-.291041	-.294704	.567686
1.67	-.272557	-.278496	-.283786	-.288457	-.292533	-.296035	.560346
1.68	-.274666	-.280434	-.285556	-.290062	-.293976	-.297319	.553077
1.69	-.276724	-.282321	-.287277	-.291619	-.295372	-.298556	.545879
1.70	-.278731	-.284159	-.288948	-.293127	-.296720	-.299746	.538749
1.71	-.280687	-.285946	-.290570	-.294587	-.298020	-.300890	.531686
1.72	-.282593	-.287685	-.292144	-.295999	-.299274	-.301988	.524689
1.73	-.284449	-.289374	-.293670	-.297364	-.300481	-.303040	.517755
1.74	-.286256	-.291015	-.295148	-.298683	-.301642	-.304047	.510884
1.75	-.288014	-.292607	-.296578	-.299954	-.302758	-.305009	.504075
1.76	-.289723	-.294152	-.297962	-.301180	-.303828	-.305926	.497325
1.77	-.291384	-.295649	-.299299	-.302360	-.304854	-.306800	.490634
1.78	-.292998	-.297100	-.300590	-.303494	-.305835	-.307630	.484001
1.79	-.294563	-.298504	-.301835	-.304584	-.306772	-.308417	.477424
1.80	-.296082	-.299861	-.303035	-.305629	-.307665	-.309162	.470902
1.81	-.297554	-.301173	-.304190	-.306630	-.308515	-.309863	.464435
1.82	-.298979	-.302439	-.305300	-.307587	-.309322	-.310523	.458020
1.83	-.300359	-.303660	-.306365	-.308500	-.310086	-.311141	.451658
1.84	-.301693	-.304836	-.307387	-.309370	-.310808	-.311717	.445346
1.85	-.302981	-.305968	-.308365	-.310198	-.311488	-.312253	.439085
1.86	-.304225	-.307055	-.309300	-.310983	-.312127	-.312748	.432873
1.87	-.305424	-.308099	-.310191	-.311727	-.312725	-.313203	.426709
1.88	-.306579	-.309099	-.311041	-.312428	-.313281	-.313618	.420593
1.89	-.307690	-.310056	-.311848	-.313088	-.313798	-.313993	.414523
1.90	-.308757	-.310971	-.312613	-.313707	-.314274	-.314329	.408499
1.91	-.309781	-.311843	-.313337	-.314286	-.314710	-.314627	.402520
1.92	-.310762	-.312673	-.314020	-.314824	-.315108	-.314886	.396585
1.93	-.311701	-.313462	-.314661	-.315323	-.315466	-.315107	.390693
1.94	-.312597	-.314209	-.315262	-.315781	-.315785	-.315290	.384844
1.95	-.313451	-.314915	-.315823	-.316201	-.316066	-.315435	.379038
1.96	-.314264	-.315580	-.316345	-.316581	-.316309	-.315544	.373272
1.97	-.315036	-.316205	-.316826	-.316923	-.316514	-.315616	.367548
1.98	-.315766	-.316789	-.317269	-.317227	-.316682	-.315651	.361863
1.99	-.316456	-.317334	-.317673	-.317493	-.316813	-.315650	.356218
2.00	-.317106	-.317840	-.318038	-.317721	-.316907	-.315614	.350612

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.75	0.80	0.85	0.90	0.95	1.00	$T(y)$
2.00	-.317106	-.317840	-.318038	-.317721	-.316907	-.315614	.350612
2.01	-.317715	-.318306	-.318365	-.317911	-.316965	-.315542	.345044
2.02	-.318285	-.318734	-.318654	-.318065	-.316987	-.315435	.339514
2.03	-.318816	-.319123	-.318905	-.318182	-.316973	-.315293	.334022
2.04	-.319307	-.319474	-.319119	-.318263	-.316924	-.315117	.328566
2.05	-.319760	-.319788	-.319297	-.318308	-.316840	-.314907	.323146
2.06	-.320175	-.320063	-.319437	-.318317	-.316721	-.314663	.317762
2.07	-.320551	-.320302	-.319542	-.318291	-.316567	-.314386	.312413
2.08	-.320889	-.320503	-.319610	-.318229	-.316380	-.314075	.307099
2.09	-.321190	-.320668	-.319643	-.318133	-.316158	-.313732	.301820
2.10	-.321454	-.320797	-.319640	-.318003	-.315903	-.313356	.296574
2.11	-.321681	-.320890	-.319602	-.317838	-.315615	-.312948	.291363
2.12	-.321871	-.320947	-.319530	-.317640	-.315294	-.312508	.286184
2.13	-.322025	-.320968	-.319423	-.317408	-.314941	-.312037	.281038
2.14	-.322143	-.320955	-.319281	-.317143	-.314555	-.311534	.275925
2.15	-.322225	-.320906	-.319106	-.316845	-.314138	-.311000	.270844
2.16	-.322271	-.320823	-.318898	-.316514	-.313689	-.310436	.265794
2.17	-.322283	-.320706	-.318656	-.316151	-.313208	-.309842	.260776
2.18	-.322260	-.320556	-.318381	-.315756	-.312697	-.309217	.255789
2.19	-.322202	-.320371	-.318074	-.315329	-.312155	-.308563	.250833
2.20	-.322110	-.320153	-.317734	-.314872	-.311582	-.307879	.245907
2.21	-.321984	-.319902	-.317362	-.314382	-.310979	-.307167	.241012
2.22	-.321824	-.319619	-.316959	-.313863	-.310347	-.306425	.236146
2.23	-.321631	-.319303	-.316524	-.313312	-.309685	-.305656	.231310
2.24	-.321405	-.318955	-.316057	-.312732	-.308994	-.304858	.226504
2.25	-.321146	-.318575	-.315560	-.312121	-.308274	-.304032	.221727
2.26	-.320855	-.318163	-.315033	-.311481	-.307525	-.303178	.216978
2.27	-.320531	-.317720	-.314475	-.310812	-.306749	-.302298	.212259
2.28	-.320176	-.317247	-.313887	-.310114	-.305944	-.301390	.207567
2.29	-.319788	-.316742	-.313269	-.309387	-.305111	-.300455	.202904
2.30	-.319370	-.316207	-.312622	-.308631	-.304251	-.299495	.198270
2.31	-.318920	-.315642	-.311945	-.307848	-.303364	-.298508	.193663
2.32	-.318439	-.315047	-.311240	-.307036	-.302450	-.297495	.189083
2.33	-.317928	-.314423	-.310507	-.306197	-.301510	-.296457	.184531
2.34	-.317387	-.313769	-.309745	-.305331	-.300543	-.295394	.180007
2.35	-.316815	-.313086	-.308955	-.304438	-.299550	-.294306	.175509
2.36	-.316214	-.312375	-.308137	-.303518	-.298532	-.293193	.171039
2.37	-.315584	-.311635	-.307292	-.302571	-.297488	-.292056	.166595
2.38	-.314924	-.310867	-.306420	-.301599	-.296420	-.290895	.162178
2.39	-.314236	-.310071	-.305521	-.300601	-.295326	-.289710	.157787
2.40	-.313519	-.309248	-.304595	-.299577	-.294208	-.288501	.153423
2.41	-.312773	-.308397	-.303643	-.298528	-.293066	-.287270	.149085
2.42	-.312000	-.307519	-.302665	-.297453	-.291899	-.286015	.144774
2.43	-.311199	-.306615	-.301661	-.296355	-.290709	-.284738	.140488
2.44	-.310370	-.305684	-.300632	-.295231	-.289496	-.283439	.136228
2.45	-.309514	-.304727	-.299578	-.294084	-.288260	-.282117	.131994
2.46	-.308632	-.303744	-.298498	-.292913	-.287000	-.280774	.127785
2.47	-.307722	-.302735	-.297395	-.291718	-.285719	-.279410	.123602
2.48	-.306786	-.301701	-.296266	-.290499	-.284414	-.278024	.119445
2.49	-.305825	-.300641	-.295114	-.289258	-.283088	-.276617	.115313
2.50	-.304837	-.299557	-.293938	-.287994	-.281741	-.275190	.111206

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	0.75	0.80	0.85	0.90	9.95	1.00	$T(y)$
2.50	-.304837	-.299557	-.293938	-.287994	-.281741	-.275190	.111206
2.51	-.303824	-.298449	-.292738	-.286708	-.280372	-.273742	.107124
2.52	-.302785	-.297316	-.291515	-.285399	-.278981	-.272274	.103068
2.53	-.301721	-.296159	-.290270	-.284069	-.277570	-.270787	.099036
2.54	-.300633	-.294978	-.289001	-.282716	-.276138	-.269279	.095030
2.55	-.299520	-.293774	-.287710	-.281343	-.274686	-.267753	.091048
2.56	-.298383	-.292547	-.286397	-.279948	-.273214	-.266208	.087091
2.57	-.297222	-.291297	-.285062	-.278533	-.271722	-.264644	.083159
2.58	-.296037	-.290024	-.283705	-.277097	-.270211	-.263061	.079252
2.59	-.294829	-.288729	-.282327	-.275640	-.268681	-.261461	.075369
2.60	-.293598	-.287412	-.280928	-.274164	-.267131	-.259842	.071511
2.61	-.292344	-.286072	-.279509	-.272668	-.265563	-.258206	.067678
2.62	-.291067	-.284712	-.278068	-.271152	-.263976	-.256553	.063868
2.63	-.289768	-.283330	-.276608	-.269617	-.262371	-.254882	.060084
2.64	-.288447	-.281927	-.275127	-.268064	-.260749	-.253195	.056324
2.65	-.287104	-.280503	-.273627	-.266491	-.259109	-.251491	.052588
2.66	-.285739	-.279058	-.272107	-.264900	-.257451	-.249771	.048876
2.67	-.284353	-.277594	-.270568	-.263292	-.255777	-.248035	.045189
2.68	-.282947	-.276109	-.269011	-.261665	-.254085	-.246284	.041526
2.69	-.281519	-.274605	-.267434	-.260020	-.252377	-.244517	.037888
2.70	-.280071	-.273081	-.265839	-.258359	-.250653	-.242734	.034273
2.71	-.278603	-.271539	-.264226	-.256680	-.248913	-.240937	.030683
2.72	-.277115	-.269977	-.262595	-.254984	-.247157	-.239125	.027117
2.73	-.275607	-.268396	-.260947	-.253272	-.245386	-.237299	.023575
2.74	-.274079	-.266798	-.259281	-.251544	-.243599	-.235458	.020058
2.75	-.272533	-.265181	-.257598	-.249800	-.241798	-.233604	.016564
2.76	-.270967	-.263546	-.255899	-.248040	-.239982	-.231736	.013094
2.77	-.269383	-.261894	-.254182	-.246264	-.238151	-.229855	.009649
2.78	-.267781	-.260224	-.252450	-.244473	-.236306	-.227961	.006228
2.79	-.266160	-.258537	-.250701	-.242667	-.234448	-.226053	.002830
2.80	-.264522	-.256833	-.248937	-.240847	-.232575	-.224134	-.000543
2.81	-.262866	-.255113	-.247157	-.239012	-.230690	-.222202	-.003892
2.82	-.261192	-.253377	-.245362	-.237163	-.228791	-.220257	-.007217
2.83	-.259502	-.251624	-.243552	-.235300	-.226879	-.218302	-.010518
2.84	-.257794	-.249856	-.241728	-.233423	-.224955	-.216334	-.013795
2.85	-.256070	-.248072	-.239888	-.231533	-.223018	-.214355	-.017048
2.86	-.254330	-.246273	-.238035	-.229630	-.221070	-.212366	-.020277
2.87	-.252574	-.244459	-.236168	-.227714	-.219109	-.210365	-.023482
2.88	-.250801	-.242630	-.234287	-.225785	-.217137	-.208354	-.026663
2.89	-.249014	-.240787	-.232392	-.223844	-.215153	-.206333	-.029820
2.90	-.247211	-.238929	-.230484	-.221890	-.213159	-.204301	-.032953
2.91	-.245393	-.237057	-.228564	-.219925	-.211154	-.202260	-.036062
2.92	-.243560	-.235172	-.226630	-.217948	-.209138	-.200209	-.039147
2.93	-.241713	-.233273	-.224685	-.215960	-.207111	-.198149	-.042207
2.94	-.239851	-.231361	-.222727	-.213961	-.205075	-.196080	-.045244
2.95	-.237975	-.229436	-.220757	-.211950	-.203029	-.194002	-.048257
2.96	-.236086	-.227498	-.218775	-.209929	-.200973	-.191916	-.051245
2.97	-.234183	-.225548	-.216782	-.207898	-.198908	-.189821	-.054210
2.98	-.232267	-.223586	-.214778	-.205857	-.196833	-.187719	-.057150
2.99	-.230337	-.221611	-.212763	-.203805	-.194750	-.185608	-.060067
3.00	-.228395	-.219625	-.210737	-.201744	-.192659	-.183490	-.062959

Table of  $R^*(y, \varphi)$  and  $T^*(y)$ 

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$T^*(y)$
.00	-.615626	-.664778	-.718680	-.778517	-.845936	-.923328	1.000000
.01	-.619567	-.668578	-.722324	-.781987	-.849210	-.926381	1.000050
.02	-.623483	-.672353	-.725942	-.785429	-.852456	-.929404	1.000200
.03	-.627374	-.676101	-.729532	-.788843	-.855672	-.932397	1.000450
.04	-.631239	-.679824	-.733095	-.792229	-.858859	-.935360	1.000800
.05	-.635080	-.683520	-.736631	-.795586	-.862017	-.938293	1.001249
.06	-.638895	-.687189	-.740139	-.798915	-.865145	-.941196	1.001798
.07	-.642685	-.690832	-.743620	-.802215	-.868244	-.944068	1.002447
.08	-.646449	-.694448	-.747073	-.805487	-.871313	-.946910	1.003195
.09	-.650187	-.698037	-.750498	-.808729	-.874353	-.949721	1.004042
.10	-.653899	-.701600	-.753895	-.811943	-.877362	-.952502	1.004988
.11	-.657585	-.705135	-.757263	-.815128	-.880342	-.955251	1.006032
.12	-.661244	-.708643	-.760604	-.818283	-.883292	-.957970	1.007174
.13	-.664878	-.712123	-.763916	-.821410	-.886211	-.960659	1.008414
.14	-.668484	-.715576	-.767200	-.824507	-.889101	-.963316	1.009752
.15	-.672065	-.719001	-.770455	-.827574	-.891960	-.965942	1.011187
.16	-.675618	-.722399	-.773682	-.830612	-.894789	-.968537	1.012718
.17	-.679144	-.725768	-.776879	-.833620	-.897587	-.971101	1.014346
.18	-.682643	-.729110	-.780048	-.836598	-.900354	-.973634	1.016069
.19	-.686115	-.732423	-.783188	-.839547	-.903092	-.976135	1.017887
.20	-.689560	-.735708	-.786298	-.842466	-.905798	-.978605	1.019800
.21	-.692977	-.738965	-.789380	-.845354	-.908473	-.981044	1.021807
.22	-.696367	-.742193	-.792432	-.848213	-.911118	-.983451	1.023908
.23	-.699729	-.745393	-.795454	-.851041	-.913732	-.985827	1.026101
.24	-.703063	-.748564	-.798447	-.853839	-.916315	-.988170	1.028387
.25	-.706369	-.751706	-.801410	-.856606	-.918866	-.990483	1.030763
.26	-.709647	-.754819	-.804344	-.859343	-.921387	-.992763	1.033231
.27	-.712896	-.757903	-.807248	-.862050	-.923876	-.995012	1.035788
.28	-.716118	-.760958	-.810121	-.864725	-.926334	-.997228	1.038435
.29	-.719311	-.763984	-.812965	-.867370	-.928761	-.999413	1.041170
.30	-.722475	-.766980	-.815779	-.869985	-.931156	-1.001566	1.043993
.31	-.725611	-.769947	-.818562	-.872568	-.933520	-1.003687	1.046902
.32	-.728718	-.772885	-.821316	-.875120	-.935852	-1.005776	1.049897
.33	-.731796	-.775793	-.824039	-.877642	-.938153	-1.007833	1.052977
.34	-.734846	-.778670	-.826731	-.880132	-.940422	-1.009857	1.056140
.35	-.737866	-.781519	-.829393	-.882591	-.942659	-1.011850	1.059387
.36	-.740857	-.784337	-.832024	-.885019	-.944864	-1.013810	1.062716
.37	-.743819	-.787125	-.834625	-.887416	-.947038	-1.015738	1.066125
.38	-.746751	-.789883	-.837195	-.889781	-.949180	-1.017634	1.069614
.39	-.749654	-.792611	-.839734	-.892115	-.951290	-1.019497	1.073183
.40	-.752527	-.795309	-.842242	-.894418	-.953368	-1.021328	1.076828
.41	-.755371	-.797976	-.844719	-.896689	-.955414	-1.023127	1.080551
.42	-.758184	-.800613	-.847165	-.898928	-.957427	-1.024893	1.084348
.43	-.760968	-.803220	-.849580	-.901136	-.959409	-1.026627	1.088220
.44	-.763722	-.805796	-.851964	-.903312	-.961359	-1.028328	1.092165
.45	-.766446	-.808341	-.854317	-.905456	-.963276	-1.029997	1.096182
.46	-.769140	-.810855	-.856638	-.907569	-.965162	-1.031633	1.100269
.47	-.771804	-.813339	-.858928	-.909649	-.967015	-1.033237	1.104425
.48	-.774438	-.815792	-.861187	-.911698	-.968836	-1.034808	1.108649
.49	-.777041	-.818214	-.863414	-.913715	-.970624	-1.036347	1.112940
.50	-.779614	-.820605	-.865610	-.915700	-.972381	-1.037853	1.117295

$$R(y, \varphi) = R^*(y, \varphi) + \frac{1+f}{y} \cdot U(y/k)$$

$$T(y) = T^*(y)/y^2$$

Table of  $R(y, \Psi)$  and  $T(y)$ 

$y \backslash \Psi$	1.00	1.05	1.10	1.15	1.20	1.25	$T(y)$
.50	.400395	.371001	.342658	.315271	.288758	.263045	4.469181
.51	.385587	.356582	.328611	.301581	.275413	.250032	4.312629
.52	.371117	.342492	.314885	.288206	.262375	.237322	4.164929
.53	.356971	.328719	.301469	.275133	.249634	.224904	4.025417
.54	.343139	.315251	.288351	.262353	.237180	.212766	3.893492
.55	.329607	.302078	.275522	.249855	.225003	.200901	3.768603
.56	.316367	.289189	.262970	.237629	.213093	.189298	3.650253
.57	.303408	.276574	.250687	.225666	.201441	.177949	3.537985
.58	.290720	.264225	.238664	.213958	.190039	.166845	3.431381
.59	.278295	.252133	.226892	.202497	.178880	.155980	3.330059
.60	.266124	.240289	.215364	.191275	.167955	.145346	3.233670
.61	.254198	.228686	.204072	.180284	.157258	.134935	3.141890
.62	.242512	.217316	.193009	.169518	.146781	.124741	3.054423
.63	.231056	.206173	.182167	.158970	.136518	.114759	2.970997
.64	.219825	.195249	.171541	.148633	.126464	.104981	2.891360
.65	.208812	.184539	.161125	.138502	.116612	.095402	2.815278
.66	.198010	.174036	.150911	.128571	.106956	.086017	2.742538
.67	.187413	.163734	.140896	.118834	.097492	.076821	2.672939
.68	.177017	.153629	.131073	.109287	.088214	.067808	2.606298
.69	.166815	.143714	.121438	.099924	.079119	.058974	2.542442
.70	.156802	.133986	.111985	.090741	.070199	.050314	2.481213
.71	.146974	.124438	.102710	.081732	.061452	.041825	2.422464
.72	.137326	.115067	.093609	.072895	.052874	.033501	2.366055
.73	.127853	.105868	.084677	.064224	.044459	.025339	2.311858
.74	.118551	.096836	.075910	.055716	.036205	.017335	2.259755
.75	.109415	.087969	.067304	.047366	.028107	.009486	2.209632
.76	.100443	.079262	.058856	.039172	.020163	.001788	2.161386
.77	.091629	.070711	.050561	.031129	.012368	-.005763	2.114918
.78	.082971	.062313	.042417	.023234	.004719	-.013169	2.070137
.79	.074465	.054064	.034421	.015485	-.002787	-.020434	2.026958
.80	.066108	.045962	.026568	.007877	-.010153	-.027561	1.985299
.81	.057895	.038002	.018856	.000409	-.017382	-.034552	1.945086
.82	.049825	.030183	.011282	-.006924	-.024476	-.041411	1.906248
.83	.041895	.022500	.003843	-.014123	-.031439	-.048140	1.868716
.84	.034100	.014952	-.003464	-.021192	-.038273	-.054742	1.832431
.85	.026440	.007536	-.010640	-.028133	-.044981	-.061218	1.797331
.86	.018910	.000248	-.017690	-.034948	-.051565	-.067572	1.763361
.87	.011509	-.006913	-.024615	-.041641	-.058027	-.073806	1.730470
.88	.004233	-.013950	-.031417	-.048212	-.064370	-.079922	1.698607
.89	-.002918	-.020865	-.038100	-.054665	-.070595	-.085923	1.667726
.90	-.009949	-.027660	-.044664	-.061001	-.076706	-.091809	1.637783
.91	-.016860	-.034338	-.051113	-.067223	-.082704	-.097584	1.608736
.92	-.023655	-.040901	-.057448	-.073333	-.088591	-.103250	1.580545
.93	-.030335	-.047351	-.063671	-.079332	-.094368	-.108807	1.553174
.94	-.036902	-.053690	-.069784	-.085223	-.100039	-.114259	1.526587
.95	-.043358	-.059919	-.075790	-.091007	-.105604	-.119606	1.500751
.96	-.049705	-.066041	-.081689	-.096687	-.111065	-.124851	1.475634
.97	-.055945	-.072057	-.087484	-.102264	-.116425	-.129995	1.451205
.98	-.062080	-.077968	-.093176	-.107738	-.121684	-.135040	1.427436
.99	-.068111	-.083778	-.098767	-.113113	-.126845	-.139987	1.404301
1.00	-.074040	-.089487	-.104259	-.118390	-.131908	-.144838	1.381773

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$T(y)$
1.00	-.074040	-.089487	-.104259	-.118390	-.131908	-.144838	1.381773
1.01	-.079868	-.095097	-.109653	-.123570	-.136876	-.149595	1.359828
1.02	-.085598	-.100609	-.114950	-.128655	-.141750	-.154258	1.338443
1.03	-.091230	-.106025	-.120153	-.133646	-.146531	-.158830	1.317595
1.04	-.096766	-.111346	-.125262	-.138544	-.151220	-.163311	1.297264
1.05	-.102208	-.116574	-.130278	-.143351	-.155819	-.167704	1.277429
1.06	-.107557	-.121710	-.135204	-.148069	-.160330	-.172008	1.258071
1.07	-.112814	-.126756	-.140040	-.152698	-.164753	-.176227	1.239173
1.08	-.117980	-.131712	-.144789	-.157240	-.169090	-.180359	1.220716
1.09	-.123058	-.136580	-.149450	-.161696	-.173342	-.184408	1.202684
1.10	-.128047	-.141361	-.154025	-.166067	-.177510	-.188374	1.185061
1.11	-.132950	-.146056	-.158515	-.170354	-.181595	-.192258	1.167833
1.12	-.137767	-.150667	-.162922	-.174559	-.185599	-.196062	1.150984
1.13	-.142499	-.155195	-.167247	-.178682	-.189522	-.199785	1.134502
1.14	-.147148	-.159640	-.171490	-.182725	-.193366	-.203431	1.117372
1.15	-.151715	-.164004	-.175653	-.186688	-.197131	-.206999	1.102583
1.16	-.156201	-.168288	-.179737	-.190574	-.200819	-.210490	1.087122
1.17	-.160607	-.172492	-.183742	-.194381	-.204430	-.213906	1.071977
1.18	-.164933	-.176619	-.187670	-.198113	-.207967	-.217247	1.057139
1.19	-.169182	-.180668	-.191522	-.201769	-.211428	-.220515	1.042595
1.20	-.173353	-.184641	-.195299	-.205351	-.214816	-.223710	1.028337
1.21	-.177447	-.188538	-.199001	-.208859	-.218131	-.226833	1.014353
1.22	-.181467	-.192361	-.202629	-.212295	-.221375	-.229886	1.000636
1.23	-.185412	-.196110	-.206185	-.215658	-.224548	-.232868	.987176
1.24	-.189283	-.199787	-.209669	-.218951	-.227650	-.235781	.973965
1.25	-.193081	-.203392	-.213082	-.222174	-.230684	-.238626	.960994
1.26	-.196808	-.206926	-.216425	-.225327	-.233649	-.241404	.948256
1.27	-.200463	-.210389	-.219698	-.228412	-.236546	-.244114	.935742
1.28	-.204048	-.213783	-.222903	-.231429	-.239376	-.246759	.923447
1.29	-.207564	-.217109	-.226040	-.234379	-.242141	-.249338	.911362
1.30	-.211010	-.220366	-.229110	-.237263	-.244840	-.251853	.899482
1.31	-.214389	-.223556	-.232114	-.240081	-.247474	-.254304	.887799
1.32	-.217700	-.226680	-.235052	-.242835	-.250045	-.256693	.876308
1.33	-.220945	-.229738	-.237925	-.245525	-.252552	-.259019	.865003
1.34	-.224124	-.232731	-.240734	-.248151	-.254997	-.261283	.853877
1.35	-.227238	-.235660	-.243480	-.250715	-.257380	-.263487	.842926
1.36	-.230287	-.238525	-.246163	-.253217	-.259702	-.265630	.832145
1.37	-.233272	-.241327	-.248783	-.255658	-.261964	-.267714	.821527
1.38	-.236195	-.244067	-.251342	-.258037	-.264166	-.269739	.811068
1.39	-.239054	-.246745	-.253841	-.260357	-.266309	-.271705	.800765
1.40	-.241852	-.249362	-.256279	-.262618	-.268393	-.273614	.790611
1.41	-.244588	-.251919	-.258657	-.264819	-.270419	-.275466	.780602
1.42	-.247264	-.254415	-.260976	-.266963	-.272388	-.277262	.770735
1.43	-.249880	-.256853	-.263237	-.269049	-.274301	-.279002	.761006
1.44	-.252436	-.259231	-.265440	-.271078	-.276157	-.280686	.751410
1.45	-.254933	-.261552	-.267586	-.273051	-.277958	-.282316	.741944
1.46	-.257372	-.263815	-.269675	-.274967	-.279703	-.283892	.732603
1.47	-.259753	-.266021	-.271708	-.276829	-.281395	-.285415	.723386
1.48	-.262077	-.268171	-.273686	-.278636	-.283033	-.286884	.714287
1.49	-.264344	-.270265	-.275608	-.280389	-.284617	-.288302	.705305
1.50	-.266555	-.272304	-.277476	-.282088	-.286149	-.289667	.696435



Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$T(y)$
1.50	-.266555	-.272304	-.277476	-.282088	-.286149	-.289667	.696435
1.51	-.268710	-.274287	-.279291	-.283734	-.287628	-.290981	.687676
1.52	-.270811	-.276217	-.281051	-.285327	-.289056	-.292245	.679023
1.53	-.272856	-.278093	-.282759	-.286869	-.290432	-.293458	.670474
1.54	-.274848	-.279915	-.284414	-.288359	-.291759	-.294622	.662026
1.55	-.276786	-.281685	-.286018	-.289798	-.293034	-.295736	.653677
1.56	-.278671	-.283403	-.287570	-.291186	-.294261	-.296802	.645425
1.57	-.280503	-.285068	-.289071	-.292524	-.295438	-.297819	.637266
1.58	-.282283	-.286683	-.290522	-.293813	-.296567	-.298789	.629198
1.59	-.284012	-.288247	-.291923	-.295053	-.297647	-.299712	.621219
1.60	-.285689	-.289760	-.293274	-.296244	-.298680	-.300588	.613327
1.61	-.287316	-.291223	-.294576	-.297387	-.299666	-.301418	.605520
1.62	-.288892	-.292637	-.295830	-.298483	-.300604	-.302202	.597796
1.63	-.290419	-.294002	-.297036	-.299531	-.301497	-.302940	.590152
1.64	-.291896	-.295319	-.298194	-.300533	-.302344	-.303634	.582587
1.65	-.293324	-.296587	-.299305	-.301488	-.303145	-.304284	.575099
1.66	-.294704	-.297808	-.300369	-.302397	-.303902	-.304889	.567686
1.67	-.296035	-.298982	-.301387	-.303261	-.304614	-.305451	.560346
1.68	-.297319	-.300109	-.302359	-.304080	-.305282	-.305970	.553077
1.69	-.298556	-.301189	-.303285	-.304855	-.305907	-.306647	.545879
1.70	-.299746	-.302224	-.304167	-.305585	-.306488	-.306881	.538749
1.71	-.300890	-.303213	-.305004	-.306272	-.307027	-.307273	.531686
1.72	-.301988	-.304157	-.305796	-.306916	-.307523	-.307625	.524689
1.73	-.303040	-.305057	-.306545	-.307516	-.307978	-.307935	.517755
1.74	-.304047	-.305912	-.307251	-.308075	-.308391	-.308205	.510884
1.75	-.305009	-.306723	-.307913	-.308591	-.308763	-.308435	.504075
1.76	-.305926	-.307490	-.308533	-.309065	-.309094	-.308625	.497325
1.77	-.306800	-.308215	-.309111	-.309499	-.309385	-.308776	.490634
1.78	-.307630	-.308897	-.309647	-.309891	-.309637	-.308888	.484001
1.79	-.308417	-.309537	-.310142	-.310243	-.309848	-.308962	.477424
1.80	-.309162	-.310134	-.310596	-.310556	-.310021	-.308998	.470902
1.81	-.309863	-.310690	-.311009	-.310828	-.310155	-.308996	.464435
1.82	-.310523	-.311205	-.311382	-.311061	-.310251	-.308957	.458020
1.83	-.311141	-.311680	-.311715	-.311256	-.310309	-.308881	.451658
1.84	-.311717	-.312113	-.312008	-.311411	-.310330	-.308769	.445346
1.85	-.312253	-.312507	-.312263	-.311529	-.310313	-.308621	.439085
1.86	-.312748	-.312861	-.312479	-.311609	-.310260	-.308437	.432873
1.87	-.313203	-.313176	-.312656	-.311652	-.310171	-.308217	.426709
1.88	-.313618	-.313452	-.312795	-.311657	-.310045	-.307963	.420593
1.89	-.313993	-.313689	-.312897	-.311626	-.309884	-.307674	.414523
1.90	-.314329	-.313888	-.312962	-.311559	-.309687	-.307351	.408499
1.91	-.314627	-.314049	-.312989	-.311456	-.309456	-.306994	.402520
1.92	-.314886	-.314173	-.312980	-.311317	-.309190	-.306604	.396585
1.93	-.315107	-.314259	-.312935	-.311143	-.308890	-.306181	.390693
1.94	-.315290	-.314309	-.312854	-.310935	-.308557	-.305725	.384844
1.95	-.315435	-.314322	-.312738	-.310691	-.308189	-.305236	.379038
1.96	-.315544	-.314299	-.312586	-.310414	-.307789	-.304716	.373272
1.97	-.315616	-.314241	-.312400	-.310103	-.307356	-.304164	.367548
1.98	-.315651	-.314146	-.312179	-.309759	-.306891	-.303581	.361863
1.99	-.315650	-.314017	-.311924	-.309381	-.306393	-.302966	.356218
2.00	-.315614	-.313853	-.311636	-.308971	-.305864	-.302321	.350612

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$T(y)$
2.00	-.315614	-.313853	-.311636	-.308971	-.305864	-.302321	.350612
2.01	-.315542	-.313655	-.311314	-.308528	-.305304	-.301646	.345044
2.02	-.315435	-.313422	-.310958	-.308053	-.304712	-.300941	.339514
2.03	-.315293	-.313156	-.310570	-.307547	-.304090	-.300207	.334022
2.04	-.315117	-.312856	-.310150	-.307009	-.303438	-.299443	.328566
2.05	-.314907	-.312523	-.309698	-.306440	-.302756	-.298650	.323146
2.06	-.314663	-.312157	-.309213	-.305840	-.302044	-.297829	.317762
2.07	-.314386	-.311759	-.308698	-.305210	-.301302	-.296980	.312413
2.08	-.314075	-.311329	-.308151	-.304550	-.300532	-.296102	.307099
2.09	-.313732	-.310867	-.307573	-.303860	-.299733	-.295198	.301820
2.10	-.313356	-.310373	-.306965	-.303141	-.298906	-.294266	.296574
2.11	-.312948	-.309849	-.306327	-.302392	-.298051	-.293307	.291363
2.12	-.312508	-.309293	-.305659	-.301615	-.297168	-.292321	.286184
2.13	-.312037	-.308707	-.304962	-.300810	-.296258	-.291310	.281038
2.14	-.311534	-.308091	-.304235	-.299976	-.295320	-.290272	.275925
2.15	-.311000	-.307444	-.303480	-.299115	-.294356	-.289209	.270844
2.16	-.310436	-.306769	-.302696	-.298226	-.293366	-.288121	.265794
2.17	-.309842	-.306063	-.301884	-.297310	-.292350	-.287008	.260776
2.18	-.309217	-.305329	-.301043	-.296367	-.291308	-.285870	.255789
2.19	-.308563	-.304567	-.300176	-.295398	-.290240	-.284708	.250833
2.20	-.307879	-.303776	-.299281	-.294402	-.289148	-.283522	.245907
2.21	-.307167	-.302957	-.298359	-.293381	-.288030	-.282312	.241012
2.22	-.306425	-.302110	-.297410	-.292334	-.286889	-.281079	.236146
2.23	-.305656	-.301236	-.296435	-.291262	-.285723	-.279823	.231310
2.24	-.304858	-.300334	-.295434	-.290164	-.284533	-.278544	.226504
2.25	-.304032	-.299406	-.294407	-.289042	-.283319	-.277243	.221727
2.26	-.303178	-.298451	-.293355	-.287896	-.282083	-.275920	.216978
2.27	-.302298	-.297470	-.292277	-.286726	-.280823	-.274575	.212259
2.28	-.301390	-.296464	-.291175	-.285532	-.279541	-.273208	.207567
2.29	-.300455	-.295431	-.290048	-.284314	-.278236	-.271820	.202904
2.30	-.299495	-.294373	-.288897	-.283073	-.276910	-.270412	.198270
2.31	-.298508	-.293291	-.287722	-.281810	-.275561	-.268983	.193663
2.32	-.297495	-.292183	-.286523	-.280524	-.274192	-.267533	.189083
2.33	-.296457	-.291051	-.285301	-.279215	-.272801	-.266064	.184531
2.34	-.295394	-.289895	-.284056	-.277885	-.271389	-.264574	.180007
2.35	-.294306	-.288715	-.282788	-.276533	-.269957	-.263066	.175509
2.36	-.293193	-.287512	-.281498	-.275160	-.268505	-.261538	.171039
2.37	-.292056	-.286285	-.280185	-.273765	-.267032	-.259992	.166595
2.38	-.290895	-.285035	-.278851	-.272350	-.265540	-.258427	.162178
2.39	-.289710	-.283763	-.277495	-.270915	-.264029	-.256844	.157787
2.40	-.288501	-.282468	-.276118	-.269459	-.262498	-.255243	.153423
2.41	-.287270	-.281151	-.274720	-.267983	-.260949	-.253624	.149085
2.42	-.286015	-.279813	-.273301	-.266488	-.259382	-.251988	.144774
2.43	-.284738	-.278452	-.271861	-.264973	-.257796	-.250335	.140488
2.44	-.283439	-.277071	-.270402	-.263440	-.256192	-.248665	.136228
2.45	-.282117	-.275668	-.268922	-.261887	-.254571	-.246979	.131994
2.46	-.280774	-.274245	-.267423	-.260316	-.252932	-.245277	.127785
2.47	-.279410	-.272802	-.265905	-.258727	-.251276	-.243558	.123602
2.48	-.278024	-.271338	-.264368	-.257120	-.249603	-.241824	.119445
2.49	-.276617	-.269855	-.262811	-.255495	-.247914	-.240075	.115313
2.50	-.275190	-.268352	-.261237	-.253854	-.246209	-.238311	.111206

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	1.00	1.05	1.10	1.15	1.20	1.25	$T(y)$
2.50	-.275190	-.268352	-.261237	-.253854	-.246209	-.238311	.111206
2.51	-.273742	-.266830	-.259644	-.252195	-.244488	-.236532	.107124
2.52	-.272274	-.265288	-.258034	-.250519	-.242751	-.234738	.103068
2.53	-.270787	-.263728	-.256406	-.248826	-.240999	-.232930	.099036
2.54	-.269279	-.262150	-.254760	-.247118	-.239232	-.231108	.095030
2.55	-.267753	-.260554	-.253097	-.245394	-.237450	-.229273	.091048
2.56	-.266208	-.258939	-.251418	-.243653	-.235653	-.227424	.087091
2.57	-.264644	-.257307	-.249722	-.241898	-.233842	-.225562	.083159
2.58	-.263061	-.255658	-.248010	-.240127	-.232017	-.223687	.079252
2.59	-.261461	-.253991	-.246282	-.238342	-.230178	-.221799	.075369
2.60	-.259842	-.252308	-.244538	-.236542	-.228326	-.219899	.071511
2.61	-.258206	-.250608	-.242779	-.234727	-.226461	-.217987	.067678
2.62	-.256553	-.248892	-.241005	-.232899	-.224583	-.216064	.063868
2.63	-.254882	-.247161	-.239216	-.231057	-.222692	-.214129	.060084
2.64	-.253195	-.245413	-.237412	-.229201	-.220789	-.212182	.056324
2.65	-.251491	-.243650	-.235594	-.227332	-.218873	-.210225	.052588
2.66	-.249771	-.241872	-.233762	-.225450	-.216946	-.208256	.048876
2.67	-.248035	-.240079	-.231916	-.223556	-.215007	-.206278	.045189
2.68	-.246284	-.238271	-.230056	-.221649	-.213057	-.204289	.041526
2.69	-.244517	-.236449	-.228183	-.219730	-.211096	-.202290	.037888
2.70	-.242734	-.234612	-.226298	-.217799	-.209124	-.200282	.034273
2.71	-.240937	-.232762	-.224399	-.215856	-.207141	-.198264	.030683
2.72	-.239125	-.230899	-.222488	-.213902	-.205149	-.196237	.027117
2.73	-.237299	-.229022	-.220565	-.211936	-.203146	-.194201	.023575
2.74	-.235458	-.227132	-.218629	-.209960	-.201133	-.192156	.020058
2.75	-.233604	-.225229	-.216682	-.207974	-.199111	-.190103	.016564
2.76	-.231736	-.223314	-.214724	-.205976	-.197079	-.188042	.013094
2.77	-.229855	-.221386	-.212755	-.203969	-.195039	-.185972	.009649
2.78	-.227961	-.219447	-.210774	-.201952	-.192990	-.183896	.006228
2.79	-.226053	-.217495	-.208783	-.199926	-.190932	-.181811	.002830
2.80	-.224134	-.215532	-.206781	-.197890	-.188866	-.179720	-.000543
2.81	-.222202	-.213558	-.204770	-.195845	-.186792	-.177622	-.003892
2.82	-.220257	-.211573	-.202748	-.193791	-.184711	-.175517	-.007217
2.83	-.218302	-.209577	-.200717	-.191728	-.182622	-.173405	-.010518
2.84	-.216334	-.207571	-.198676	-.189657	-.180525	-.171288	-.013795
2.85	-.214355	-.205555	-.196626	-.187579	-.178422	-.169164	-.017048
2.86	-.212366	-.203528	-.194567	-.185492	-.176311	-.167035	-.020277
2.87	-.210365	-.201492	-.192500	-.183398	-.174195	-.164900	-.023482
2.88	-.208354	-.199446	-.190424	-.181296	-.172072	-.162760	-.026663
2.89	-.206333	-.197391	-.188340	-.179187	-.169943	-.160615	-.029820
2.90	-.204301	-.195328	-.186248	-.177071	-.167808	-.158466	-.032953
2.91	-.202260	-.193255	-.184148	-.174949	-.165667	-.156311	-.036062
2.92	-.200209	-.191174	-.182041	-.172821	-.163521	-.154153	-.039147
2.93	-.198149	-.189085	-.179927	-.170686	-.161371	-.151990	-.042207
2.94	-.196080	-.186987	-.177806	-.168545	-.159215	-.149824	-.045244
2.95	-.194002	-.184882	-.175678	-.166399	-.157055	-.147654	-.048257
2.96	-.191916	-.182770	-.173544	-.164247	-.154890	-.145481	-.051245
2.97	-.189821	-.180650	-.171403	-.162090	-.152721	-.143305	-.054210
2.98	-.187719	-.178523	-.169257	-.159928	-.150548	-.141125	-.057150
2.99	-.185608	-.176390	-.167104	-.157762	-.148372	-.138943	-.060067
3.00	-.183490	-.174250	-.164947	-.155591	-.146192	-.136759	-.062959

Table of  $R^*(y, \varphi)$  and  $T^*(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.50	$R(y, \pi/2)$	$T^*(y)$
.00	-.923328	-1.014339	-1.124928	-1.265822	-1.459367	$\infty$	1.000000
.01	-.926381	-1.017139	-1.127437	-1.267989	-1.461123	2.564291	1.000050
.02	-.929404	-1.019909	-1.129915	-1.270124	-1.462846	2.123068	1.000200
.03	-.932397	-1.022648	-1.132362	-1.272227	-1.464536	1.865020	1.000450
.04	-.935360	-1.025356	-1.134776	-1.274298	-1.466194	1.681988	1.000800
.05	-.938293	-1.028034	-1.137159	-1.276337	-1.467820	1.540073	1.001249
.06	-.941196	-1.030680	-1.139511	-1.278344	-1.469413	1.424179	1.001798
.07	-.944068	-1.033295	-1.141831	-1.280319	-1.470973	1.326250	1.002447
.08	-.946910	-1.035879	-1.144118	-1.282261	-1.472501	1.241480	1.003195
.09	-.949721	-1.038431	-1.146374	-1.284171	-1.473997	1.166768	1.004042
.10	-.952502	-1.040952	-1.148598	-1.286048	-1.475460	1.099995	1.004988
.11	-.955251	-1.043442	-1.150790	-1.287893	-1.476890	1.039653	1.006032
.12	-.957970	-1.045901	-1.152950	-1.289706	-1.478287	.984625	1.007174
.13	-.960659	-1.048327	-1.155078	-1.291486	-1.479652	.934066	1.008414
.14	-.963316	-1.050723	-1.157174	-1.293234	-1.480984	.887316	1.009752
.15	-.965942	-1.053086	-1.159238	-1.294949	-1.482284	.843855	1.011187
.16	-.968537	-1.055418	-1.161269	-1.296631	-1.483550	.803261	1.012718
.17	-.971101	-1.057718	-1.163268	-1.298281	-1.484784	.765190	1.014346
.18	-.973634	-1.059986	-1.165235	-1.299898	-1.485985	.729357	1.016069
.19	-.976135	-1.062223	-1.167169	-1.301483	-1.487154	.695524	1.017887
.20	-.978605	-1.064427	-1.169071	-1.303035	-1.488289	.663489	1.019800
.21	-.981044	-1.066599	-1.170941	-1.304554	-1.489392	.633078	1.021807
.22	-.983451	-1.068740	-1.172778	-1.306040	-1.490462	.604144	1.023908
.23	-.985827	-1.070848	-1.174582	-1.307494	-1.491500	.576559	1.026101
.24	-.988170	-1.072924	-1.176354	-1.308915	-1.492504	.550209	1.028387
.25	-.990483	-1.074968	-1.178094	-1.310303	-1.493476	.524997	1.030763
.26	-.992763	-1.076979	-1.179801	-1.311658	-1.494415	.500835	1.033231
.27	-.995012	-1.078959	-1.181475	-1.312981	-1.495321	.477648	1.035788
.28	-.997228	-1.080906	-1.183117	-1.314271	-1.496194	.455365	1.038435
.29	-.999413	-1.082820	-1.184725	-1.315528	-1.497035	.433927	1.041170
.30	-1.001566	-1.084703	-1.186302	-1.316752	-1.497843	.413276	1.043993
.31	-1.003687	-1.086552	-1.187845	-1.317943	-1.498618	.393365	1.046902
.32	-1.005776	-1.088370	-1.189356	-1.319101	-1.499360	.374148	1.049897
.33	-1.007833	-1.090155	-1.190834	-1.320227	-1.500070	.355583	1.052977
.34	-1.009857	-1.091907	-1.192280	-1.321320	-1.500746	.337635	1.056140
.35	-1.011850	-1.093627	-1.193692	-1.322380	-1.501391	.320268	1.059387
.36	-1.013810	-1.095314	-1.195072	-1.323407	-1.502002	.303452	1.062716
.37	-1.015738	-1.096969	-1.196419	-1.324401	-1.502581	.287158	1.066125
.38	-1.017634	-1.098591	-1.197733	-1.325362	-1.503127	.271360	1.069614
.39	-1.019497	-1.100181	-1.199015	-1.326291	-1.503641	.256034	1.073183
.40	-1.021328	-1.101738	-1.200263	-1.327187	-1.504122	.241158	1.076828
.41	-1.023127	-1.103262	-1.201479	-1.328050	-1.504571	.226709	1.080551
.42	-1.024893	-1.104753	-1.202662	-1.328880	-1.504987	.212670	1.084348
.43	-1.026627	-1.106212	-1.203812	-1.329678	-1.505370	.199023	1.088220
.44	-1.028328	-1.107638	-1.204930	-1.330443	-1.505721	.185750	1.092165
.45	-1.029997	-1.109032	-1.206014	-1.331175	-1.506040	.172837	1.096182
.46	-1.031633	-1.110393	-1.207066	-1.331874	-1.506328	.160268	1.100269
.47	-1.033237	-1.111721	-1.208085	-1.332541	-1.506580	.148031	1.104425
.48	-1.034808	-1.113016	-1.209072	-1.333175	-1.506802	.136111	1.108649
.49	-1.036347	-1.114278	-1.210025	-1.333777	-1.506991	.124499	1.112940
.50	-1.037853	-1.115508	-1.210946	-1.334345	-1.507148	.113181	1.117295

$$R(y, \varphi) = R^*(y, \varphi) + \frac{1 + f \cdot U(y/k)}{y}$$

$$T(y) = T^*(y)/y^2$$

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$T(y)$
.50	.263045	.238063	.213754	.190064	.166944	.113181	4.469181
.51	.250032	.225375	.201383	.178003	.155187	.102148	4.312629
.52	.237322	.212984	.189303	.166228	.143714	.091389	4.164929
.53	.224904	.200879	.177505	.154731	.132514	.080896	4.025417
.54	.212766	.189051	.165979	.143503	.121578	.070659	3.893492
.55	.200901	.177490	.154716	.132533	.110898	.060670	3.768603
.56	.189298	.166187	.143707	.121814	.100465	.050920	3.650253
.57	.177949	.155133	.132944	.111337	.090271	.041404	3.537985
.58	.166845	.144322	.122420	.101095	.080309	.032112	3.431381
.59	.155980	.133745	.112126	.091081	.070571	.023039	3.330059
.60	.145346	.123395	.102056	.081287	.061052	.014178	3.233670
.61	.134935	.113265	.092203	.071708	.051744	.005523	3.141890
.62	.124741	.103350	.082561	.062337	.042642	-.002932	3.054423
.63	.114758	.093642	.073124	.053168	.033740	-.011193	2.970997
.64	.104981	.084136	.063886	.044196	.025031	-.019264	2.891360
.65	.095402	.074826	.054842	.035415	.016512	-.027152	2.815278
.66	.086017	.065707	.045987	.026820	.008177	-.034860	2.742538
.67	.076820	.056774	.037314	.018407	.000021	-.042393	2.672939
.68	.067808	.048022	.028821	.010170	-.007961	-.049757	2.606298
.69	.058974	.039447	.020502	.002105	-.015772	-.056954	2.542442
.70	.050314	.031044	.012352	-.005792	-.023418	-.063990	2.481213
.71	.041825	.022808	.004369	-.013526	-.030901	-.070867	2.422464
.72	.033501	.014737	-.003453	-.021099	-.038227	-.077591	2.366055
.73	.025339	.006825	-.011117	-.028516	-.045398	-.084163	2.311858
.74	.017335	-.000931	-.018627	-.035781	-.052418	-.090589	2.259755
.75	.009486	-.008534	-.025986	-.042897	-.059291	-.096870	2.209632
.76	.001738	-.015989	-.033198	-.049867	-.066019	-.103011	2.161386
.77	-.005763	-.023297	-.040266	-.056695	-.072607	-.109015	2.114918
.78	-.013169	-.030463	-.047192	-.063383	-.079056	-.114883	2.070137
.79	-.020434	-.037489	-.053981	-.069935	-.085371	-.120620	2.026958
.80	-.027561	-.044379	-.060635	-.076353	-.091554	-.126228	1.985299
.81	-.034552	-.051135	-.067156	-.082640	-.097606	-.131710	1.945086
.82	-.041411	-.057759	-.073548	-.088800	-.103532	-.137067	1.906248
.83	-.048140	-.064256	-.079813	-.094833	-.109334	-.142303	1.868716
.84	-.054742	-.070626	-.085953	-.100743	-.115014	-.147421	1.832431
.85	-.061218	-.076873	-.091971	-.106533	-.120574	-.152421	1.797331
.86	-.067572	-.082999	-.097870	-.112204	-.126017	-.157308	1.763361
.87	-.073806	-.089006	-.103651	-.117758	-.131345	-.162081	1.730470
.88	-.079922	-.094897	-.109316	-.123199	-.136560	-.166745	1.698607
.89	-.085923	-.100673	-.114869	-.128527	-.141664	-.171301	1.667726
.90	-.091809	-.106337	-.120310	-.133746	-.146659	-.175750	1.637783
.91	-.097584	-.111890	-.125642	-.138856	-.151547	-.180095	1.608736
.92	-.103250	-.117335	-.130866	-.143860	-.156330	-.184338	1.580545
.93	-.108807	-.122673	-.135985	-.148760	-.161010	-.188480	1.553174
.94	-.114259	-.127906	-.141001	-.153557	-.165588	-.192524	1.526587
.95	-.119606	-.133036	-.145914	-.158254	-.170067	-.196470	1.500751
.96	-.124851	-.138065	-.150727	-.162851	-.174447	-.200320	1.475634
.97	-.129995	-.142995	-.155442	-.167351	-.178731	-.204077	1.451205
.98	-.135040	-.147826	-.160059	-.171754	-.182920	-.207741	1.427436
.99	-.139987	-.152560	-.164581	-.176063	-.187016	-.211314	1.404301
1.00	-.144838	-.157200	-.169010	-.180280	-.191019	-.214798	1.381773

Table of R(y, φ) and T(y)

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	T(y)
1.00	-.144838	-.157200	-.169010	-.180280	-.191019	-.214798	1.381773
1.01	-.149595	-.161746	-.173345	-.184404	-.194932	-.218194	1.359828
1.02	-.154258	-.166200	-.177590	-.188439	-.198756	-.221503	1.338443
1.03	-.158830	-.170563	-.181744	-.192385	-.202492	-.224727	1.317595
1.04	-.163311	-.174837	-.185811	-.196243	-.206142	-.227868	1.297264
1.05	-.167704	-.179023	-.189790	-.200016	-.209707	-.230925	1.277429
1.06	-.172008	-.183122	-.193683	-.203704	-.213188	-.233902	1.258071
1.07	-.176227	-.187135	-.197492	-.207308	-.216587	-.236798	1.239173
1.08	-.180359	-.191064	-.201218	-.210829	-.219904	-.239615	1.220716
1.09	-.184408	-.194911	-.204862	-.214270	-.223140	-.242355	1.202684
1.10	-.188374	-.198675	-.208424	-.217630	-.226298	-.245018	1.185061
1.11	-.192258	-.202358	-.211907	-.220912	-.229378	-.247606	1.167833
1.12	-.196062	-.205962	-.215310	-.224115	-.232381	-.250119	1.150984
1.13	-.199785	-.209487	-.218636	-.227242	-.235308	-.252559	1.134502
1.14	-.203431	-.212934	-.221886	-.230294	-.238160	-.254927	1.118372
1.15	-.206999	-.216305	-.225060	-.233270	-.240939	-.257223	1.102583
1.16	-.210490	-.219600	-.228159	-.236173	-.243645	-.259450	1.087122
1.17	-.213906	-.222821	-.231184	-.239003	-.246279	-.261607	1.071977
1.18	-.217247	-.225968	-.234137	-.241761	-.248843	-.263696	1.057139
1.19	-.220515	-.229042	-.237018	-.244449	-.251336	-.265717	1.042595
1.20	-.223710	-.232045	-.239828	-.247067	-.253761	-.267673	1.028337
1.21	-.226833	-.234976	-.242569	-.249615	-.256118	-.269562	1.014353
1.22	-.229886	-.237838	-.245240	-.252096	-.258407	-.271388	1.000636
1.23	-.232868	-.240631	-.247843	-.254509	-.260630	-.273149	.987176
1.24	-.235781	-.243355	-.250379	-.256856	-.262788	-.274848	.973965
1.25	-.238626	-.246012	-.252848	-.259137	-.264882	-.276484	.960994
1.26	-.241404	-.248602	-.255251	-.261354	-.266911	-.278060	.948256
1.27	-.244114	-.251126	-.257589	-.263506	-.268878	-.279575	.935742
1.28	-.246759	-.253586	-.259864	-.265596	-.270782	-.281031	.923447
1.29	-.249338	-.255981	-.262075	-.267623	-.272625	-.282427	.911362
1.30	-.251853	-.258312	-.264223	-.269588	-.274407	-.283766	.899482
1.31	-.254304	-.260581	-.266310	-.271493	-.276129	-.285047	.887799
1.32	-.256693	-.262788	-.268335	-.273337	-.277793	-.286272	.876308
1.33	-.259019	-.264933	-.270300	-.275122	-.279397	-.287442	.865003
1.34	-.261283	-.267017	-.272205	-.276848	-.280944	-.288556	.853877
1.35	-.263487	-.269042	-.274051	-.278516	-.282434	-.289615	.842926
1.36	-.265630	-.271007	-.275839	-.280126	-.283868	-.290621	.832145
1.37	-.267714	-.272914	-.277569	-.281680	-.285246	-.291574	.821527
1.38	-.269739	-.274762	-.279242	-.283178	-.286569	-.292475	.811068
1.39	-.271705	-.276554	-.280858	-.284620	-.287837	-.293324	.800765
1.40	-.273614	-.278288	-.282419	-.286008	-.289052	-.294123	.790611
1.41	-.275466	-.279967	-.283925	-.287341	-.290214	-.294870	.780602
1.42	-.277262	-.281590	-.285376	-.288621	-.291323	-.295568	.770735
1.43	-.279002	-.283158	-.286774	-.289848	-.292380	-.296218	.761006
1.44	-.280686	-.284672	-.288118	-.291023	-.293387	-.296818	.751410
1.45	-.282316	-.286132	-.289409	-.292146	-.294342	-.297371	.741944
1.46	-.283892	-.287539	-.290648	-.293219	-.295248	-.297877	.732603
1.47	-.285415	-.288894	-.291836	-.294240	-.296104	-.298335	.723386
1.48	-.286884	-.290197	-.292973	-.295212	-.296911	-.298748	.714287
1.49	-.288302	-.291448	-.294059	-.296134	-.297670	-.299116	.705305
1.50	-.289667	-.292649	-.295095	-.297007	-.298381	-.299438	.696435

Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$T(y)$
1.50	-.289667	-.292649	-.295095	-.297007	-.298381	-.299438	.696435
1.51	-.290981	-.293799	-.296082	-.297832	-.299045	-.299716	.687676
1.52	-.292215	-.294899	-.297021	-.298609	-.299662	-.299951	.679023
1.53	-.293458	-.295950	-.297911	-.299310	-.300233	-.300142	.670474
1.54	-.294622	-.296952	-.298753	-.300023	-.300759	-.300290	.662026
1.55	-.295736	-.297907	-.299548	-.300660	-.301239	-.300397	.653677
1.56	-.296802	-.298813	-.300297	-.301252	-.301675	-.300461	.645425
1.57	-.297819	-.299672	-.300999	-.301799	-.302067	-.300485	.637266
1.58	-.298789	-.300485	-.301656	-.302301	-.302416	-.300468	.629198
1.59	-.299712	-.301251	-.302267	-.302758	-.302721	-.300411	.621219
1.60	-.300588	-.301972	-.302834	-.303173	-.302984	-.300314	.613327
1.61	-.301418	-.302647	-.303356	-.303544	-.303205	-.300179	.605520
1.62	-.302202	-.303278	-.303835	-.303872	-.303385	-.300004	.597796
1.63	-.302940	-.303864	-.304271	-.304158	-.303523	-.299792	.590152
1.64	-.303634	-.304407	-.304663	-.304403	-.303621	-.299542	.582587
1.65	-.304284	-.304906	-.305014	-.304606	-.303679	-.299256	.575099
1.66	-.304889	-.305362	-.305322	-.304769	-.303697	-.298932	.567686
1.67	-.305451	-.305776	-.305590	-.304891	-.303676	-.298572	.560346
1.68	-.305970	-.306148	-.305816	-.304973	-.303617	-.298177	.553077
1.69	-.306447	-.306478	-.306002	-.305016	-.303519	-.297747	.545879
1.70	-.306881	-.306767	-.306147	-.305020	-.303383	-.297281	.538749
1.71	-.307273	-.307015	-.306253	-.304986	-.303210	-.296782	.531686
1.72	-.307625	-.307223	-.306320	-.304913	-.303000	-.296248	.524689
1.73	-.307935	-.307392	-.306348	-.304803	-.302754	-.295681	.517755
1.74	-.308205	-.307520	-.306338	-.304656	-.302471	-.295082	.510884
1.75	-.308435	-.307610	-.306290	-.304472	-.302153	-.294449	.504075
1.76	-.308625	-.307662	-.306204	-.304251	-.301800	-.293785	.497325
1.77	-.308776	-.307675	-.306081	-.303995	-.301412	-.293089	.490634
1.78	-.308888	-.307650	-.305922	-.303703	-.300990	-.292362	.484001
1.79	-.308962	-.307588	-.305726	-.303376	-.300534	-.291604	.477424
1.80	-.308998	-.307489	-.305495	-.303014	-.300044	-.290815	.470902
1.81	-.308996	-.307353	-.305228	-.302618	-.299521	-.289997	.464435
1.82	-.308957	-.307182	-.304926	-.302188	-.298966	-.289148	.458020
1.83	-.308881	-.306974	-.304589	-.301725	-.298378	-.288271	.451658
1.84	-.308769	-.306732	-.304218	-.301228	-.297758	-.287365	.445346
1.85	-.308621	-.306454	-.303813	-.300699	-.297107	-.286431	.439085
1.86	-.308437	-.306141	-.303375	-.300137	-.296425	-.285469	.432873
1.87	-.308217	-.305795	-.302904	-.299544	-.295712	-.284479	.426709
1.88	-.307963	-.305414	-.302400	-.298919	-.294969	-.283462	.420593
1.89	-.307674	-.305000	-.301864	-.298263	-.294196	-.282418	.414523
1.90	-.307351	-.304554	-.301295	-.297576	-.293393	-.281348	.408499
1.91	-.306994	-.304074	-.300696	-.296859	-.292561	-.280252	.402520
1.92	-.306604	-.303562	-.300065	-.296112	-.291701	-.279130	.396585
1.93	-.306181	-.303018	-.299403	-.295335	-.290812	-.277983	.390693
1.94	-.305725	-.302442	-.298710	-.294528	-.289895	-.276811	.384844
1.95	-.305236	-.301835	-.297988	-.293693	-.288950	-.275615	.379038
1.96	-.304716	-.301198	-.297236	-.292830	-.287978	-.274394	.373272
1.97	-.304164	-.300529	-.296454	-.291938	-.286979	-.273150	.367548
1.98	-.303581	-.299831	-.295644	-.291018	-.285953	-.271882	.361863
1.99	-.302966	-.299103	-.294805	-.290071	-.284901	-.270591	.356218
2.00	-.302321	-.298345	-.293937	-.289097	-.283824	-.269278	.350612

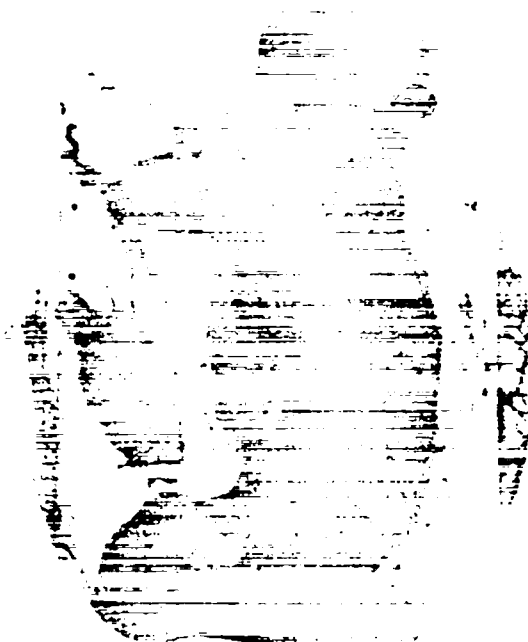
Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \backslash \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$T(y)$
2.00	-.302321	-.298345	-.293937	-.289097	-.283824	-.269278	.350612
2.01	-.301646	-.297558	-.293042	-.288096	-.282721	-.267942	.345044
2.02	-.300941	-.296743	-.292119	-.287069	-.281592	-.266585	.339514
2.03	-.300207	-.295899	-.291168	-.286015	-.280439	-.265205	.334022
2.04	-.299443	-.295027	-.290191	-.284936	-.279262	-.263805	.328566
2.05	-.298650	-.294127	-.289187	-.283832	-.278060	-.262383	.323146
2.06	-.297829	-.293200	-.288157	-.282702	-.276835	-.260941	.317762
2.07	-.296980	-.292245	-.287101	-.281548	-.275586	-.259479	.312413
2.08	-.296102	-.291264	-.286020	-.280370	-.274314	-.257997	.307099
2.09	-.295198	-.290257	-.284913	-.279168	-.273019	-.256495	.301820
2.10	-.294266	-.289224	-.283782	-.277941	-.271702	-.254974	.296574
2.11	-.293307	-.288165	-.282626	-.276692	-.270363	-.253434	.291363
2.12	-.292321	-.287080	-.281446	-.275420	-.269002	-.251876	.286184
2.13	-.291310	-.285970	-.280242	-.274125	-.267620	-.250299	.281038
2.14	-.290272	-.284836	-.279014	-.272807	-.266217	-.248705	.275925
2.15	-.289209	-.283677	-.277763	-.271468	-.264793	-.247092	.270844
2.16	-.288121	-.282495	-.276489	-.270107	-.263348	-.245463	.265794
2.17	-.287008	-.281288	-.275193	-.268725	-.261883	-.243817	.260776
2.18	-.285870	-.280058	-.273874	-.267321	-.260399	-.242154	.255789
2.19	-.284708	-.278805	-.272534	-.265897	-.258895	-.240475	.250833
2.20	-.283522	-.277529	-.271172	-.264453	-.257372	-.238780	.245907
2.21	-.282312	-.276231	-.269788	-.262988	-.255831	-.237069	.241012
2.22	-.281079	-.274910	-.268384	-.261504	-.254270	-.235343	.236146
2.23	-.279823	-.273567	-.266959	-.260000	-.252692	-.233602	.231310
2.24	-.278544	-.272203	-.265514	-.258477	-.251095	-.231846	.226504
2.25	-.277243	-.270818	-.264048	-.256935	-.249482	-.230076	.221727
2.26	-.275920	-.269412	-.262563	-.255375	-.247850	-.228292	.216978
2.27	-.274575	-.267985	-.261058	-.253796	-.246202	-.226493	.212259
2.28	-.273208	-.266538	-.259534	-.252200	-.244537	-.224682	.207567
2.29	-.271820	-.265071	-.257992	-.250586	-.242856	-.222857	.202904
2.30	-.270412	-.263584	-.256431	-.248955	-.241159	-.221019	.198270
2.31	-.268983	-.262078	-.254852	-.247307	-.239446	-.219168	.193663
2.32	-.267533	-.260553	-.253254	-.245642	-.237718	-.217306	.189083
2.33	-.266064	-.259008	-.251639	-.243960	-.235974	-.215431	.184531
2.34	-.264574	-.257446	-.250007	-.242263	-.234216	-.213544	.180007
2.35	-.263066	-.255865	-.248358	-.240550	-.232443	-.211646	.175509
2.36	-.261538	-.254266	-.246692	-.238821	-.230656	-.209737	.171039
2.37	-.259992	-.252650	-.245010	-.237077	-.228855	-.207817	.166595
2.38	-.258427	-.251016	-.243312	-.235318	-.227040	-.205886	.162178
2.39	-.256844	-.249365	-.241597	-.233515	-.225212	-.203945	.157787
2.40	-.255243	-.247698	-.239867	-.231757	-.223370	-.201994	.153423
2.41	-.253624	-.246014	-.238122	-.229955	-.221516	-.200033	.149085
2.42	-.251988	-.244313	-.236362	-.228139	-.219649	-.198063	.144774
2.43	-.250335	-.242597	-.234588	-.226310	-.217770	-.196083	.140488
2.44	-.248665	-.240866	-.232798	-.224468	-.215880	-.194095	.136228
2.45	-.246979	-.239119	-.230995	-.222613	-.213977	-.192098	.131994
2.46	-.245277	-.237357	-.229178	-.220745	-.212063	-.190092	.127785
2.47	-.243558	-.235580	-.227347	-.218865	-.210138	-.188079	.123602
2.48	-.241824	-.233789	-.225503	-.216972	-.208202	-.186057	.119445
2.49	-.240075	-.231984	-.223646	-.215068	-.206255	-.184028	.115313
2.50	-.238311	-.230165	-.221777	-.213153	-.204298	-.181991	.111206



Table of  $R(y, \varphi)$  and  $T(y)$ 

$y \varphi$	1.25	1.30	1.35	1.40	1.45	$\pi/2$	$T(y)$
2.50	-.238311	-.230165	-.221777	-.213153	-.204298	-.181991	.111206
2.51	-.236532	-.228332	-.219894	-.211226	-.202331	-.179948	.107124
2.52	-.234738	-.226486	-.218000	-.209288	-.200354	-.177897	.103068
2.53	-.232930	-.224626	-.216094	-.207339	-.198368	-.175840	.099036
2.54	-.231108	-.222754	-.214176	-.205380	-.196372	-.173777	.095030
2.55	-.229273	-.220870	-.212247	-.203411	-.194368	-.171708	.091048
2.56	-.227424	-.218973	-.210307	-.201432	-.192354	-.169633	.087091
2.57	-.225562	-.217064	-.208355	-.199443	-.190333	-.167552	.083159
2.58	-.223687	-.215143	-.206394	-.197445	-.188303	-.165466	.079252
2.59	-.221799	-.213211	-.204422	-.195437	-.186265	-.163375	.075369
2.60	-.219899	-.211268	-.202440	-.193421	-.184219	-.161279	.071511
2.61	-.217987	-.209314	-.200448	-.191396	-.182166	-.159179	.067678
2.62	-.216064	-.207349	-.198447	-.189363	-.180106	-.157074	.063868
2.63	-.214129	-.205374	-.196437	-.187322	-.178039	-.154965	.060084
2.64	-.212182	-.203389	-.194417	-.185273	-.175965	-.152853	.056324
2.65	-.210225	-.201394	-.192389	-.183217	-.173885	-.150737	.052588
2.66	-.208256	-.199389	-.190352	-.181153	-.171799	-.148617	.048876
2.67	-.206278	-.197375	-.188308	-.179082	-.169707	-.146495	.045189
2.68	-.204289	-.195352	-.186255	-.177004	-.167609	-.144369	.041526
2.69	-.202290	-.193320	-.184194	-.174920	-.165506	-.142241	.037888
2.70	-.200282	-.191280	-.182126	-.172829	-.163397	-.140110	.034273
2.71	-.198264	-.189231	-.180051	-.170733	-.161284	-.137978	.030683
2.72	-.196237	-.187174	-.177969	-.168630	-.159166	-.135843	.027117
2.73	-.194201	-.185110	-.175881	-.166522	-.157044	-.133707	.023575
2.74	-.192156	-.183037	-.173786	-.164409	-.154917	-.131569	.020058
2.75	-.190103	-.180958	-.171684	-.162291	-.152786	-.129430	.016564
2.76	-.188042	-.178871	-.169577	-.160167	-.150652	-.127289	.013094
2.77	-.185972	-.176778	-.167464	-.158040	-.148514	-.125148	.009649
2.78	-.183896	-.174678	-.165346	-.155907	-.146373	-.123007	.006228
2.79	-.181811	-.172572	-.163222	-.153771	-.144229	-.120864	.002830
2.80	-.179720	-.170459	-.161093	-.151631	-.142082	-.118722	-.000543
2.81	-.177622	-.168341	-.158960	-.149487	-.139932	-.116580	-.003892
2.82	-.175517	-.166217	-.156822	-.147340	-.137780	-.114438	-.007217
2.83	-.173405	-.164088	-.154680	-.145189	-.135626	-.112296	-.010518
2.84	-.171288	-.161954	-.152533	-.143036	-.133471	-.110156	-.013795
2.85	-.169164	-.159815	-.150383	-.140879	-.131313	-.108016	-.017048
2.86	-.167035	-.157671	-.148230	-.138721	-.129154	-.105877	-.020277
2.87	-.164900	-.155523	-.146073	-.136560	-.126994	-.103739	-.023482
2.88	-.162760	-.153371	-.143913	-.134397	-.124833	-.101603	-.026663
2.89	-.160615	-.151215	-.141750	-.132232	-.122671	-.099469	-.029820
2.90	-.158466	-.149055	-.139585	-.130065	-.120508	-.097336	-.032953
2.91	-.156311	-.146891	-.137417	-.127898	-.118345	-.095206	-.036062
2.92	-.154153	-.144725	-.135246	-.125729	-.116182	-.093078	-.039147
2.93	-.151990	-.142555	-.133074	-.123559	-.114019	-.090952	-.042207
2.94	-.149824	-.140383	-.130900	-.121388	-.111856	-.088829	-.045244
2.95	-.147654	-.138208	-.128725	-.119217	-.109694	-.086709	-.048257
2.96	-.145481	-.136030	-.126548	-.117045	-.107533	-.084592	-.051245
2.97	-.143305	-.133851	-.124370	-.114874	-.105372	-.082478	-.054210
2.98	-.141125	-.131670	-.122192	-.112702	-.103213	-.080368	-.057150
2.99	-.138943	-.129487	-.120012	-.110531	-.101055	-.078261	-.060067
3.00	-.136759	-.127302	-.117833	-.108360	-.098898	-.076159	-.062959



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