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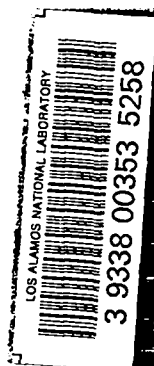
# LOS ALAMOS SCIENTIFIC LABORATORY

OF THE

UNIVERSITY OF CALIFORNIA

CONTRACT W-7405-ENG. 36 WITH

U. S. ATOMIC ENERGY COMMISSION



LOS ALAMOS SCIENTIFIC LABORATORY

of the

UNIVERSITY OF CALIFORNIA

Report Written:  
May 1950

Report Distributed: MAY 5 1952

LA-1365

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

Volume II

by

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LOS ALAMOS NATL. LAB. LIBS.



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PHYSICS

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Acknowledgements

P. Hammer and R. Stark lent the use of The Card-Programmed Electronic Calculator.

D. MacMillan and D. Sweeney were responsible for the programming and coding.

D. Sweeney and Lois Cook were in charge of the machine operations.

M. Goldstein assisted by Josephine Elliott, Lois Cook, Mary Wagner, Margaret Johnson, Alice Snowden, Bertha Fagan, Joan Houston, Marian Peterson, Francoise Ulam, and C. Latour computed starting values and check values. The same group also differenced and proof read the entire manuscript.

Kathleen Jenkins, Bernice Kelly, and Jessie Moore typed the major portion of the manuscript.

The function U(z).

The function U(z) is defined as the solution of the following differential equation with the condition U(∞) = 1:

$$U'_z(z) = (1 + \frac{1}{z})U(z) - 1 .$$

This differential equation was solved numerically by the method used for Q(y, φ), outlined on page four, starting at y=100.0 and "progressing" by intervals of 0.1 to y=25.0, and then continuing by steps of 0.01 to y=1.00. The remainder of the table of U(z) was obtained from existing tabulations, since U(z) is given by:

$$U(z) = ze^z E_1(z) .$$

The function U(z) is mainly used in the calculation of R\_f(z, f), -1 ≤ f ≤ 0, defined by

$$R_f(z, f) = G(f) \frac{z}{1 + \frac{k}{1+k} z} U(z) ,$$

where

$$G(f) = \frac{1+f}{-f} \frac{k^2}{(1+k)^2} .$$

Table of G(f).

f	G(f)	f	G(f)
-.00	3.0000	-.25	.5723
-.01	2.1431	-.30	.4791
-.02	1.8725	-.35	.4030
-.03	1.6900	-.40	.3394
-.04	1.5507	-.50	.2393
-.05	1.4378	-.60	.1643
-.10	1.0678	-.70	.1069
-.15	.8457	-.80	.0625
-.20	.6900	-.90	.0278
-.25	.5723	-1.00	0.0000

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  $Q(0, \varphi) = 1$  :

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

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

$$Q(y, \varphi) = \frac{1}{2\varphi} e^{\frac{y}{\tanh \varphi}} \left[ E_1\left(\frac{y}{\tanh \varphi} - y\right) - E_1\left(\frac{y}{\tanh \varphi} + y\right) \right],$$

where

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

$$\lim_{\varphi \rightarrow \infty} Q(y, \varphi) = e^{-y}.$$

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

$$S(y) = \frac{-\sinh y + y \cosh y}{y^2}.$$

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

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

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

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

$$R(y, \varphi) = \frac{1}{2\varphi} e^{\frac{y}{\tanh \varphi}} \left[ E_1\left(\frac{y}{\tanh \varphi} - y\right) + E_1\left(\frac{y}{\tanh \varphi} + y\right) \right],$$

where

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

$$\lim_{\varphi \rightarrow \infty} R(y, \varphi) = e^y.$$

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

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

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

The function  $U(z)$  is defined and tabulated in this volume.

The constant of integration for  $R(y, \varphi)$  and  $R^*(y, \varphi)$  was obtained from the condition  $R^*(0, \varphi) = \frac{1}{2\varphi} \ln(1 + \tanh^2 \varphi)$ .

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

$$T(y) = \frac{-\cosh y + y \sinh y}{y^2}, \quad T^*(y) = y^2 T(y).$$

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

$f$	$k(f \geq 0)$	$\phi(f \geq 0)$	$k(f \leq 0)$	$\phi(f \leq 0)$	$f$	$k(f \geq 0)$	$\phi(f \geq 0)$	$k(f \leq 0)$	$\phi(f \leq 0)$
.00	.00000	.00000	.00000	.00000	.050	.39498	.37617	.37949	.39946
.01	.05479	.05474	.05475	.05480	.051	.39906	.37970	.38310	.40369
.02	.07752	.07737	.07740	.07756	.052	.40311	.38318	.38668	.40789
.03	.09498	.09470	.09475	.09504	.053	.40713	.38664	.39022	.41206
.04	.10972	.10928	.10937	.10981	.054	.41111	.39005	.39372	.41619
.05	.12272	.12211	.12223	.12284	.055	.41506	.39342	.39718	.42030
.06	.13449	.13369	.13384	.13465	.056	.41897	.39675	.40061	.42438
.07	.14532	.14431	.14451	.14553	.057	.42286	.40006	.40400	.42842
.08	.15541	.15418	.15442	.15567	.058	.42671	.40332	.40736	.43244
.09	.16491	.16344	.16372	.16521	.059	.43054	.40655	.41068	.43643
.10	.17390	.17218	.17251	.17425	.060	.43434	.40976	.41398	.44040
.11	.18246	.18047	.18086	.18287	.061	.43812	.41293	.41724	.44435
.12	.19065	.18839	.18882	.19111	.062	.44186	.41606	.42047	.44826
.13	.19851	.19596	.19645	.19904	.063	.44558	.41917	.42367	.45216
.14	.20608	.20323	.20379	.20668	.064	.44927	.42225	.42684	.45603
.15	.21340	.21025	.21086	.21407	.065	.45294	.42530	.42998	.45987
.16	.22049	.21702	.21768	.22122	.066	.45659	.42832	.43309	.46369
.17	.22736	.22356	.22429	.22817	.067	.46021	.43131	.43617	.46749
.18	.23405	.22991	.23070	.23493	.068	.46381	.43428	.43923	.47128
.19	.24056	.23607	.23693	.24152	.069	.46738	.43721	.44226	.47504
.20	.24690	.24206	.24298	.24794	.070	.47094	.44013	.44527	.47878
.21	.25310	.24789	.24888	.25422	.071	.47447	.44302	.44825	.48251
.22	.25916	.25358	.25464	.26037	.072	.47798	.44588	.45121	.48622
.23	.26509	.25913	.26025	.26638	.073	.48147	.44871	.45414	.48990
.24	.27089	.26454	.26574	.27227	.074	.48494	.45153	.45704	.49356
.25	.27659	.26984	.27111	.27806	.075	.48839	.45432	.45993	.49722
.26	.28218	.27503	.27637	.28375	.076	.49182	.45708	.46278	.50084
.27	.28766	.28010	.28152	.28933	.077	.49524	.45983	.46562	.50446
.28	.29306	.28508	.28657	.29483	.078	.49863	.46255	.46844	.50807
.29	.29836	.28995	.29152	.30023	.079	.50201	.46525	.47123	.51165
.30	.30358	.29473	.29638	.30555	.080	.50536	.46793	.47400	.51522
.31	.30872	.29944	.30116	.31079	.081	.50870	.47058	.47675	.51877
.32	.31378	.30405	.30585	.31596	.082	.51203	.47323	.47948	.52231
.33	.31877	.30859	.31047	.32107	.083	.51534	.47584	.48219	.52583
.34	.32369	.31305	.31500	.32609	.084	.51863	.47844	.48488	.52934
.35	.32855	.31744	.31947	.33106	.085	.52190	.48101	.48755	.53284
.36	.33334	.32176	.32387	.33596	.086	.52516	.48357	.49020	.53632
.37	.33807	.32601	.32820	.34081	.087	.52840	.48611	.49283	.53979
.38	.34274	.33019	.33247	.34560	.088	.53163	.48863	.49544	.54325
.39	.34735	.33431	.33668	.35034	.089	.53484	.49113	.49804	.54670
.40	.35191	.33838	.34083	.35503	.090	.53804	.49361	.50061	.55013
.41	.35643	.34239	.34492	.35967	.091	.54122	.49608	.50317	.55354
.42	.36089	.34634	.34896	.36426	.092	.54439	.49853	.50571	.55695
.43	.36530	.35024	.35294	.36880	.093	.54755	.50096	.50824	.56035
.44	.36967	.35409	.35687	.37329	.094	.55069	.50337	.51074	.56373
.45	.37399	.35789	.36076	.37776	.095	.55381	.50576	.51323	.56710
.46	.37827	.36163	.36459	.38217	.096	.55693	.50815	.51570	.57046
.47	.38250	.36533	.36838	.38655	.097	.56003	.51051	.51816	.57382
.48	.38670	.36899	.37213	.39089	.098	.56313	.51287	.52060	.57716
.49	.39086	.37260	.37583	.39519	.099	.56620	.51520	.52302	.58049
.50	.39498	.37617	.37949	.39946	.100	.56926	.51751	.52543	.58381

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

$f$	$K(f \geq 0)$	$\varphi(f \geq 0)$	$K(f \leq 0)$	$\varphi(f \leq 0)$	$f$	$K(f \geq 0)$	$\varphi(f \geq 0)$	$K(f \leq 0)$	$\varphi(f \leq 0)$
.100	.56926	.51751	.52543	.58381	.150	.71007	.61745	.62950	.74059
.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	.75559
.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	.76454
.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	.82073
.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	.85884
.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  $f$

$f$	$k(f \geq 0)$	$\phi(f \geq 0)$	$k(f \leq 0)$	$\phi(f \leq 0)$	$f$	$k(f \geq 0)$	$\phi(f \geq 0)$	$k(f \leq 0)$	$\frac{1}{\phi}(f \leq 0)$
.00	.00000	.00000	.00000	.00000	.50	1.45110	.96740	.95750	.52219
.01	.17390	.17218	.17251	.17425	.51	1.46978	.97336	.96122	.50977
.02	.24690	.24206	.24298	.24794	.52	1.48838	.97920	.96472	.49755
.03	.30358	.29474	.29638	.30555	.53	1.50692	.98492	.96800	.48554
.04	.35192	.33838	.34083	.35503	.54	1.52540	.99052	.97109	.47369
.05	.39498	.37617	.37949	.39946	.55	1.54381	.99601	.97398	.46202
.06	.43434	.40976	.41398	.44040	.56	1.56216	1.00138	.97667	.45051
.07	.47094	.44013	.44527	.47878	.57	1.58045	1.00666	.97918	.43914
.08	.50536	.46793	.47400	.51522	.58	1.59869	1.01183	.98150	.42792
.09	.53804	.49361	.50061	.55013	.59	1.61687	1.01690	.98365	.41681
.10	.56936	.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	.63443	.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  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
0.00	.000000	0.50	.461455	1.00	.596347	1.50	.672385	2.00	.722657
.01	.040785	.51	.465265	.01	.598264	.51	.673587	.01	.723494
.02	.068450	.52	.469007	.02	.600160	.52	.674778	.02	.724326
.03	.091477	.53	.472684	.03	.602035	.53	.675961	.03	.725152
.04	.111628	.54	.476298	.04	.603890	.54	.677134	.04	.725974
0.05	.129722	0.55	.479852	1.05	.605726	1.55	.678297	2.05	.726789
.06	.146234	.56	.483345	.06	.607543	.56	.679452	.06	.727600
.07	.161475	.57	.486781	.07	.609340	.57	.680597	.07	.728405
.08	.175661	.58	.490161	.08	.611119	.58	.681734	.08	.729206
.09	.188950	.59	.493487	.09	.612880	.59	.682862	.09	.730001
0.10	.201464	0.60	.496760	1.10	.614622	1.60	.683981	2.10	.730792
.11	.213300	.61	.499982	.11	.616347	.61	.685091	.11	.731577
.12	.224535	.62	.503153	.12	.618055	.62	.686193	.12	.732357
.13	.235233	.63	.506276	.13	.619745	.63	.687287	.13	.733133
.14	.245446	.64	.509351	.14	.621419	.64	.688372	.14	.733904
0.15	.255219	0.65	.512380	1.15	.623076	1.65	.689449	2.15	.734670
.16	.264591	.66	.515365	.16	.624716	.66	.690518	.16	.735432
.17	.273595	.67	.518305	.17	.626341	.67	.691579	.17	.736188
.18	.282260	.68	.521203	.18	.627950	.68	.692632	.18	.736940
.19	.290611	.69	.524059	.19	.629543	.69	.693677	.19	.737688
0.20	.298670	0.70	.526875	1.20	.631121	1.70	.694715	2.20	.738431
.21	.306457	.71	.529650	.21	.632685	.71	.695744	.21	.739170
.22	.313991	.72	.532388	.22	.634233	.72	.696767	.22	.739904
.23	.321287	.73	.535087	.23	.635767	.73	.697782	.23	.740634
.24	.328359	.74	.537750	.24	.637286	.74	.698789	.24	.741359
0.25	.335221	0.75	.540376	1.25	.638791	1.75	.699790	2.25	.742080
.26	.341885	.76	.542967	.26	.640282	.76	.700783	.26	.742797
.27	.348361	.77	.545524	.27	.641760	.77	.701769	.27	.743509
.28	.354660	.78	.548048	.28	.643224	.78	.702748	.28	.744218
.29	.360790	.79	.550538	.29	.644675	.79	.703720	.29	.744922
0.30	.366761	0.80	.552996	1.30	.646113	1.80	.704685	2.30	.745622
.31	.372579	.81	.555423	.31	.647537	.81	.705643	.31	.746318
.32	.378252	.82	.557819	.32	.648950	.82	.706595	.32	.747010
.33	.383787	.83	.560185	.33	.650349	.83	.707540	.33	.747698
.34	.389189	.84	.562522	.34	.651736	.84	.708478	.34	.748382
0.35	.394466	0.85	.564829	1.35	.653111	1.85	.709410	2.35	.749062
.36	.399621	.86	.567108	.36	.654474	.86	.710336	.36	.749738
.37	.404661	.87	.569360	.37	.655825	.87	.711255	.37	.750411
.38	.409590	.88	.571584	.38	.657165	.88	.712168	.38	.751079
.39	.414412	.89	.573782	.39	.658493	.89	.713075	.39	.751744
0.40	.419131	0.90	.575954	1.40	.659810	1.90	.713975	2.40	.752405
.41	.423752	.91	.578101	.41	.661115	.91	.714870	.41	.753062
.42	.428278	.92	.580222	.42	.662409	.92	.715758	.42	.753716
.43	.432713	.93	.582319	.43	.663693	.93	.716641	.43	.754365
.44	.437060	.94	.584392	.44	.664966	.94	.717518	.44	.755012
0.45	.441322	0.95	.586441	1.45	.666228	1.95	.718388	2.45	.755654
.46	.445501	.96	.588467	.46	.667480	.96	.719253	.46	.756293
.47	.449602	.97	.590470	.47	.668721	.97	.720113	.47	.756929
.48	.453626	.98	.592451	.48	.669952	.98	.720967	.48	.757561
.49	.457577	.99	.594410	.49	.671174	.99	.721815	.49	.758189
0.50	.461455	1.00	.596347	1.50	.672385	2.00	.722657	2.50	.758815

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
2.50	.758815	3.00	.786251	3.50	.807868	4.00	.825383	4.50	.839887
.51	.759436	.01	.786733	.51	.808254	.01	.825699	.51	.840152
.52	.760055	.02	.787213	.52	.808638	.02	.826015	.52	.840416
.53	.760670	.03	.787691	.53	.809021	.03	.826329	.53	.840679
.54	.761281	.04	.788166	.54	.809402	.04	.826642	.54	.840941
2.55	.761890	3.05	.788640	3.55	.809782	4.05	.826954	4.55	.841202
.56	.762495	.06	.789111	.56	.810160	.06	.827265	.56	.841463
.57	.763096	.07	.789579	.57	.810537	.07	.827575	.57	.841722
.58	.763695	.08	.790046	.58	.810912	.08	.827883	.58	.841981
.59	.764290	.09	.790511	.59	.811285	.09	.828191	.59	.842239
2.60	.764883	3.10	.790973	3.60	.811657	4.10	.828497	4.60	.842496
.61	.765472	.11	.791433	.61	.812027	.11	.828802	.61	.842752
.62	.766058	.12	.791891	.62	.812396	.12	.829106	.62	.843007
.63	.766641	.13	.792347	.63	.812764	.13	.829409	.63	.843261
.64	.767221	.14	.792801	.64	.813130	.14	.829711	.64	.843515
2.65	.767797	3.15	.793253	3.65	.813494	4.15	.830011	4.65	.843767
.66	.768371	.16	.793703	.66	.813857	.16	.830311	.66	.844019
.67	.768942	.17	.794150	.67	.814219	.17	.830610	.67	.844270
.68	.769510	.18	.794596	.68	.814579	.18	.830907	.68	.844520
.69	.770075	.19	.795040	.69	.814937	.19	.831203	.69	.844769
2.70	.770637	3.20	.795481	3.70	.815294	4.20	.831499	4.70	.845018
.71	.771196	.21	.795921	.71	.815650	.21	.831793	.71	.845266
.72	.771752	.22	.796359	.72	.816004	.22	.832086	.72	.845513
.73	.772306	.23	.796795	.73	.816357	.23	.832378	.73	.845759
.74	.772856	.24	.797228	.74	.816709	.24	.832669	.74	.846004
2.75	.773404	3.25	.797660	3.75	.817059	4.25	.832959	4.75	.846248
.76	.773949	.26	.798090	.76	.817408	.26	.833248	.76	.846492
.77	.774492	.27	.798518	.77	.817755	.27	.833536	.77	.846735
.78	.775031	.28	.798945	.78	.818101	.28	.833823	.78	.846977
.79	.775568	.29	.799369	.79	.818446	.29	.834109	.79	.847218
2.80	.776102	3.30	.799791	3.80	.818789	4.30	.834394	4.80	.847459
.81	.776634	.31	.800212	.81	.819131	.31	.834678	.81	.847698
.82	.777162	.32	.800631	.82	.819471	.32	.834961	.82	.847937
.83	.777689	.33	.801048	.83	.819811	.33	.835242	.83	.848176
.84	.778212	.34	.801463	.84	.820149	.34	.835523	.84	.848413
2.85	.778733	3.35	.801876	3.85	.820485	4.35	.835803	4.85	.848650
.86	.779252	.36	.802288	.86	.820821	.36	.836082	.86	.848886
.87	.779768	.37	.802697	.87	.821155	.37	.836360	.87	.849121
.88	.780281	.38	.803105	.88	.821487	.38	.836637	.88	.849355
.89	.780792	.39	.803512	.89	.821819	.39	.836913	.89	.849589
2.90	.781300	3.40	.803916	3.90	.822149	4.40	.837188	4.90	.849822
.91	.781806	.41	.804319	.91	.822478	.41	.837462	.91	.850054
.92	.782310	.42	.804720	.92	.822806	.42	.837735	.92	.850285
.93	.782811	.43	.805119	.93	.823132	.43	.838008	.93	.850516
.94	.783309	.44	.805517	.94	.823457	.44	.838279	.94	.850746
2.95	.783805	3.45	.805913	3.95	.823781	4.45	.838549	4.95	.850975
.96	.784299	.46	.806307	.96	.824104	.46	.838819	.96	.851204
.97	.784791	.47	.806700	.97	.824425	.47	.839087	.97	.851432
.98	.785280	.48	.807091	.98	.824746	.48	.839355	.98	.851659
.99	.785767	.49	.807480	.99	.825065	.49	.839621	.99	.851885
3.00	.786251	3.50	.807868	4.00	.825383	4.50	.839887	5.00	.852111

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
5.00	.852111	5.50	.862562	6.00	.871606	6.50	.879513	7.00	.886488
.01	.852336	.51	.862756	.01	.871774	.51	.879661	.01	.886619
.02	.852560	.52	.862949	.02	.871942	.52	.879809	.02	.886750
.03	.852784	.53	.863141	.03	.872110	.53	.879956	.03	.886880
.04	.853007	.54	.863333	.04	.872277	.54	.880103	.04	.887010
5.05	.853229	5.55	.863525	6.05	.872444	6.55	.880249	7.05	.887140
.06	.853450	.56	.863715	.06	.872610	.56	.880396	.06	.887270
.07	.853671	.57	.863906	.07	.872776	.57	.880541	.07	.887399
.08	.853891	.58	.864095	.08	.872941	.58	.880687	.08	.887528
.09	.854111	.59	.864285	.09	.873106	.59	.880832	.09	.887657
5.10	.854330	5.60	.864473	6.10	.873271	6.60	.880977	7.10	.887785
.11	.854548	.61	.864662	.11	.873435	.61	.881121	.11	.887913
.12	.854765	.62	.864849	.12	.873599	.62	.881265	.12	.888041
.13	.854982	.63	.865036	.13	.873762	.63	.881409	.13	.888169
.14	.855198	.64	.865223	.14	.873925	.64	.881552	.14	.888296
5.15	.855413	5.65	.865409	6.15	.874087	6.65	.881695	7.15	.888423
.16	.855628	.66	.865594	.16	.874249	.66	.881838	.16	.888549
.17	.855842	.67	.865780	.17	.874410	.67	.881980	.17	.888676
.18	.856056	.68	.865964	.18	.874571	.68	.882122	.18	.888802
.19	.856269	.69	.866148	.19	.874732	.69	.882264	.19	.888928
5.20	.856481	5.70	.866331	6.20	.874892	6.70	.882405	7.20	.889053
.21	.856693	.71	.866514	.21	.875052	.71	.882546	.21	.889178
.22	.856903	.72	.866697	.22	.875212	.72	.882686	.22	.889303
.23	.857114	.73	.866879	.23	.875371	.73	.882827	.23	.889428
.24	.857323	.74	.867060	.24	.875529	.74	.882967	.24	.889552
5.25	.857532	5.75	.867241	6.25	.875687	6.75	.883106	7.25	.889676
.26	.857741	.76	.867421	.26	.875845	.76	.883245	.26	.889800
.27	.857949	.77	.867601	.27	.876002	.77	.883384	.27	.889923
.28	.858156	.78	.867781	.28	.876159	.78	.883523	.28	.890047
.29	.858362	.79	.867960	.29	.876316	.79	.883661	.29	.890170
5.30	.858568	5.80	.868138	6.30	.876472	6.80	.883799	7.30	.890292
.31	.858774	.81	.868316	.31	.876628	.81	.883936	.31	.890415
.32	.858978	.82	.868493	.32	.876783	.82	.884073	.32	.890537
.33	.859182	.83	.868670	.33	.876938	.83	.884210	.33	.890658
.34	.859386	.84	.868847	.34	.877093	.84	.884347	.34	.890780
5.35	.859589	5.85	.869023	6.35	.877247	6.85	.884483	7.35	.890901
.36	.859791	.86	.869198	.36	.877401	.86	.884619	.36	.891022
.37	.859993	.87	.869373	.37	.877554	.87	.884754	.37	.891143
.38	.860194	.88	.869548	.38	.877707	.88	.884890	.38	.891263
.39	.860394	.89	.869722	.39	.877860	.89	.885025	.39	.891384
5.40	.860594	5.90	.869895	6.40	.878012	6.90	.885159	7.40	.891503
.41	.860794	.91	.870069	.41	.878164	.91	.885293	.41	.891623
.42	.860992	.92	.870241	.42	.878315	.92	.885427	.42	.891742
.43	.861191	.93	.870413	.43	.878466	.93	.885561	.43	.891862
.44	.861388	.94	.870585	.44	.878617	.94	.885694	.44	.891980
5.45	.861585	5.95	.870756	6.45	.878767	6.95	.885827	7.45	.892099
.46	.861782	.96	.870927	.46	.878917	.96	.885960	.46	.892217
.47	.861978	.97	.871098	.47	.879067	.97	.886092	.47	.892335
.48	.862173	.98	.871267	.48	.879216	.98	.886224	.48	.892453
.49	.862368	.99	.871437	.49	.879364	.99	.886356	.49	.892571
5.50	.862562	6.00	.871606	6.50	.879513	7.00	.886488	7.50	.892688

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
7.50	.892688	8.00	.898237	8.50	.903234	9.00	.907758	9.50	.911873
.51	.892805	.01	.898342	.51	.903329	.01	.907844	.51	.911951
.52	.892922	.02	.898447	.52	.903423	.02	.907930	.52	.912030
.53	.893038	.03	.898552	.53	.903518	.03	.908015	.53	.912108
.54	.893154	.04	.898656	.54	.903612	.04	.908101	.54	.912186
7.55	.893270	8.05	.898760	8.55	.903706	9.05	.908187	9.55	.912264
.56	.893386	.06	.898864	.56	.903800	.06	.908272	.56	.912342
.57	.893501	.07	.898968	.57	.903894	.07	.908357	.57	.912420
.58	.893617	.08	.899071	.58	.903988	.08	.908442	.58	.912497
.59	.893732	.09	.899175	.59	.904081	.09	.908527	.59	.912575
7.60	.893846	8.10	.899278	8.60	.904174	9.10	.908611	9.60	.912652
.61	.893961	.11	.899381	.61	.904267	.11	.908696	.61	.912729
.62	.894075	.12	.899483	.62	.904360	.12	.908780	.62	.912806
.63	.894189	.13	.899586	.63	.904453	.13	.908865	.63	.912883
.64	.894303	.14	.899688	.64	.904545	.14	.908949	.64	.912960
7.65	.894416	8.15	.899790	8.65	.904637	9.15	.909032	9.65	.913036
.66	.894529	.16	.899892	.66	.904730	.16	.909116	.66	.913113
.67	.894642	.17	.899994	.67	.904822	.17	.909200	.67	.913189
.68	.894755	.18	.900095	.68	.904913	.18	.909283	.68	.913265
.69	.894867	.19	.900196	.69	.905005	.19	.909366	.69	.913341
7.70	.894980	8.20	.900297	8.70	.905096	9.20	.909450	9.70	.913417
.71	.895092	.21	.900398	.71	.905187	.21	.909532	.71	.913493
.72	.895203	.22	.900499	.72	.905278	.22	.909615	.72	.913568
.73	.895315	.23	.900599	.73	.905369	.23	.909698	.73	.913644
.74	.895426	.24	.900699	.74	.905460	.24	.909780	.74	.913719
7.75	.895537	8.25	.900799	8.75	.905551	9.25	.909863	9.75	.913795
.76	.895648	.26	.900899	.76	.905641	.26	.909945	.76	.913870
.77	.895759	.27	.900999	.77	.905731	.27	.910027	.77	.913945
.78	.895869	.28	.901098	.78	.905821	.28	.910109	.78	.914019
.79	.895979	.29	.901197	.79	.905911	.29	.910191	.79	.914094
7.80	.896089	8.30	.901296	8.80	.906000	9.30	.910272	9.80	.914169
.81	.896198	.31	.901395	.81	.906090	.31	.910354	.81	.914243
.82	.896308	.32	.901493	.82	.906179	.32	.910435	.82	.914318
.83	.896417	.33	.901592	.83	.906268	.33	.910516	.83	.914392
.84	.896526	.34	.901690	.84	.906357	.34	.910597	.84	.914466
7.85	.896634	8.35	.901788	8.85	.906446	9.35	.910678	9.85	.914540
.86	.896743	.36	.901886	.86	.906535	.36	.910759	.86	.914614
.87	.896851	.37	.901983	.87	.906623	.37	.910839	.87	.914687
.88	.896959	.38	.902081	.88	.906711	.38	.910919	.88	.914761
.89	.897067	.39	.902178	.89	.906799	.39	.911000	.89	.914834
7.90	.897174	8.40	.902275	8.90	.906887	9.40	.911080	9.90	.914907
.91	.897282	.41	.902371	.91	.906975	.41	.911160	.91	.914981
.92	.897389	.42	.902468	.92	.907063	.42	.911240	.92	.915054
.93	.897496	.43	.902564	.93	.907150	.43	.911319	.93	.915127
.94	.897602	.44	.902661	.94	.907237	.44	.911399	.94	.915199
7.95	.897709	8.45	.902757	8.95	.907325	9.45	.911478	9.95	.915272
.96	.897815	.46	.902853	.96	.907412	.46	.911557	.96	.915344
.97	.897921	.47	.902948	.97	.907498	.47	.911637	.97	.915417
.98	.898026	.48	.903044	.98	.907585	.48	.911715	.98	.915489
.99	.898132	.49	.903139	.99	.907671	.49	.911794	.99	.915561
8.00	.898237	8.50	.903234	9.00	.907758	9.50	.911873	10.00	.915633

Table of U(z)

z	U(z)	z	U(z)	z	U(z)	z	U(z)	z	U(z)
10.00	.915633	10.50	.919083	11.00	.922260	11.50	.925194	12.00	.927914
.01	.915705	.51	.919149	.01	.922321	.51	.925251	.01	.927966
.02	.915777	.52	.919215	.02	.922381	.52	.925307	.02	.928018
.03	.915849	.53	.919281	.03	.922442	.53	.925363	.03	.928070
.04	.915920	.54	.919347	.04	.922503	.54	.925419	.04	.928123
10.05	.915992	10.55	.919413	11.05	.922563	11.55	.925475	12.05	.928175
.06	.916063	.56	.919478	.06	.922624	.56	.925531	.06	.928227
.07	.916134	.57	.919544	.07	.922684	.57	.925587	.07	.928279
.08	.916205	.58	.919609	.08	.922745	.58	.925643	.08	.928330
.09	.916276	.59	.919674	.09	.922805	.59	.925699	.09	.928382
10.10	.916347	10.60	.919739	11.10	.922865	11.60	.925754	12.10	.928434
.11	.916418	.61	.919804	.11	.922925	.61	.925810	.11	.928485
.12	.916488	.62	.919869	.12	.922985	.62	.925865	.12	.928537
.13	.916559	.63	.919934	.13	.923045	.63	.925921	.13	.928588
.14	.916629	.64	.919999	.14	.923104	.64	.925976	.14	.928640
10.15	.916699	10.65	.920063	11.15	.923164	11.65	.926031	12.15	.928691
.16	.916769	.66	.920128	.16	.923224	.66	.926087	.16	.928742
.17	.916839	.67	.920192	.17	.923283	.67	.926142	.17	.928793
.18	.916909	.68	.920256	.18	.923342	.68	.926197	.18	.928844
.19	.916979	.69	.920321	.19	.923402	.69	.926252	.19	.928895
10.20	.917048	10.70	.920385	11.20	.923461	11.70	.926306	12.20	.928946
.21	.917118	.71	.920449	.21	.923520	.71	.926361	.21	.928997
.22	.917187	.72	.920512	.22	.923579	.72	.926416	.22	.929048
.23	.917256	.73	.920576	.23	.923638	.73	.926470	.23	.929099
.24	.917326	.74	.920640	.24	.923697	.74	.926525	.24	.929149
10.25	.917395	10.75	.920703	11.25	.923755	11.75	.926579	12.25	.929200
.26	.917463	.76	.920767	.26	.923814	.76	.926634	.26	.929250
.27	.917532	.77	.920830	.27	.923872	.77	.926688	.27	.929301
.28	.917601	.78	.920893	.28	.923931	.78	.926742	.28	.929351
.29	.917670	.79	.920957	.29	.923989	.79	.926796	.29	.929402
10.30	.917738	10.80	.921020	11.30	.924048	11.80	.926850	12.30	.929452
.31	.917806	.81	.921083	.31	.924106	.81	.926904	.31	.929502
.32	.917875	.82	.921145	.32	.924164	.82	.926958	.32	.929552
.33	.917943	.83	.921208	.33	.924222	.83	.927012	.33	.929602
.34	.918011	.84	.921271	.34	.924280	.84	.927065	.34	.929652
10.35	.918078	10.85	.921333	11.35	.924337	11.85	.927119	12.35	.929702
.36	.918146	.86	.921396	.36	.924395	.86	.927172	.36	.929751
.37	.918214	.87	.921458	.37	.924453	.87	.927226	.37	.929801
.38	.918281	.88	.921520	.38	.924510	.88	.927279	.38	.929851
.39	.918349	.89	.921583	.39	.924568	.89	.927333	.39	.929900
10.40	.918416	10.90	.921645	11.40	.924625	11.90	.927386	12.40	.929950
.41	.918483	.91	.921707	.41	.924683	.91	.927439	.41	.929999
.42	.918550	.92	.921768	.42	.924740	.92	.927492	.42	.930049
.43	.918617	.93	.921830	.43	.924797	.93	.927545	.43	.930098
.44	.918684	.94	.921892	.44	.924854	.94	.927598	.44	.930147
10.45	.918751	10.95	.921953	11.45	.924911	11.95	.927651	12.45	.930196
.46	.918818	.96	.922015	.46	.924968	.96	.927703	.46	.930245
.47	.918884	.97	.922076	.47	.925024	.97	.927756	.47	.930294
.48	.918951	.98	.922137	.48	.925081	.98	.927809	.48	.930343
.49	.919017	.99	.922199	.49	.925138	.99	.927861	.49	.930392
10.50	.919083	11.00	.922260	11.50	.925194	12.00	.927914	12.50	.930441

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
12.50	.930441	13.00	.932796	13.50	.934996	14.00	.937055	14.50	.938988
.51	.930490	.01	.932841	.51	.935038	.01	.937095	.51	.939025
.52	.930538	.02	.932887	.52	.935081	.02	.937135	.52	.939062
.53	.930587	.03	.932932	.53	.935123	.03	.937175	.53	.939100
.54	.930635	.04	.932977	.54	.935165	.04	.937214	.54	.939137
12.55	.930684	13.05	.933023	13.55	.935208	14.05	.937254	14.55	.939174
.56	.930732	.06	.933068	.56	.935250	.06	.937294	.56	.939211
.57	.930781	.07	.933113	.57	.935292	.07	.937333	.57	.939249
.58	.930829	.08	.933158	.58	.935334	.08	.937373	.58	.939286
.59	.930877	.09	.933203	.59	.935376	.09	.937412	.59	.939323
12.60	.930925	13.10	.933248	13.60	.935418	14.10	.937452	14.60	.939360
.61	.930973	.11	.933293	.61	.935460	.11	.937491	.61	.939397
.62	.931021	.12	.933337	.62	.935502	.12	.937530	.62	.939434
.63	.931069	.13	.933382	.63	.935544	.13	.937569	.63	.939471
.64	.931117	.14	.933427	.64	.935586	.14	.937609	.64	.939507
12.65	.931165	13.15	.933471	13.65	.935628	14.15	.937648	14.65	.939544
.66	.931212	.16	.933516	.66	.935669	.16	.937687	.66	.939581
.67	.931260	.17	.933560	.67	.935711	.17	.937726	.67	.939618
.68	.931308	.18	.933605	.68	.935753	.18	.937765	.68	.939654
.69	.931355	.19	.933649	.69	.935794	.19	.937804	.69	.939691
12.70	.931403	13.20	.933694	13.70	.935836	14.20	.937843	14.70	.939728
.71	.931450	.21	.933738	.71	.935877	.21	.937882	.71	.939764
.72	.931497	.22	.933782	.72	.935918	.22	.937920	.72	.939801
.73	.931545	.23	.933826	.73	.935960	.23	.937959	.73	.939837
.74	.931592	.24	.933870	.74	.936001	.24	.937998	.74	.939873
12.75	.931639	13.25	.933914	13.75	.936042	14.25	.938037	14.75	.939910
.76	.931686	.26	.933958	.76	.936083	.26	.938075	.76	.939946
.77	.931733	.27	.934002	.77	.936124	.27	.938114	.77	.939982
.78	.931780	.28	.934046	.78	.936165	.28	.938152	.78	.940018
.79	.931827	.29	.934090	.79	.936206	.29	.938191	.79	.940055
12.80	.931873	13.30	.934133	13.80	.936247	14.30	.938229	14.80	.940091
.81	.931920	.31	.934177	.81	.936288	.31	.938268	.81	.940127
.82	.931967	.32	.934221	.82	.936329	.32	.938306	.82	.940163
.83	.932013	.33	.934264	.83	.936370	.33	.938344	.83	.940199
.84	.932060	.34	.934308	.84	.936411	.34	.938382	.84	.940235
12.85	.932106	13.35	.934351	13.85	.936451	14.35	.938421	14.85	.940271
.86	.932153	.36	.934395	.86	.936492	.36	.938459	.86	.940307
.87	.932199	.37	.934438	.87	.936533	.37	.938497	.87	.940342
.88	.932245	.38	.934481	.88	.936573	.38	.938535	.88	.940378
.89	.932292	.39	.934524	.89	.936614	.39	.938573	.89	.940414
12.90	.932338	13.40	.934567	13.90	.936654	14.40	.938611	14.90	.940450
.91	.932384	.41	.934611	.91	.936694	.41	.938649	.91	.940485
.92	.932430	.42	.934654	.92	.936735	.42	.938686	.92	.940521
.93	.932476	.43	.934697	.93	.936775	.43	.938724	.93	.940556
.94	.932522	.44	.934739	.94	.936815	.44	.938762	.94	.940592
12.95	.932568	13.45	.934782	13.95	.936855	14.45	.938800	14.95	.940627
.96	.932613	.46	.934825	.96	.936895	.46	.938837	.96	.940663
.97	.932659	.47	.934868	.97	.936935	.47	.938875	.97	.940698
.98	.932705	.48	.934911	.98	.936975	.48	.938913	.98	.940734
.99	.932750	.49	.934953	.99	.937015	.49	.938950	.99	.940769
13.00	.932796	13.50	.934996	14.00	.937055	14.50	.938988	15.00	.940804

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
15.00	.940804	15.50	.942515	16.00	.944130	16.50	.945655	17.00	.947100
.01	.940839	.51	.942548	.01	.944161	.51	.945685	.01	.947128
.02	.940875	.52	.942582	.02	.944192	.52	.945715	.02	.947156
.03	.940910	.53	.942615	.03	.944224	.53	.945744	.03	.947184
.04	.940945	.54	.942648	.04	.944255	.54	.945774	.04	.947212
15.05	.940980	15.55	.942681	16.05	.944286	16.55	.945803	17.05	.947240
.06	.941015	.56	.942714	.06	.944317	.56	.945833	.06	.947268
.07	.941050	.57	.942747	.07	.944348	.57	.945862	.07	.947296
.08	.941085	.58	.942780	.08	.944380	.58	.945892	.08	.947324
.09	.941120	.59	.942813	.09	.944411	.59	.945921	.09	.947352
15.10	.941155	15.60	.942846	16.10	.944442	16.60	.945951	17.10	.947380
.11	.941189	.61	.942878	.11	.944473	.61	.945980	.11	.947407
.12	.941224	.62	.942911	.12	.944504	.62	.946009	.12	.947435
.13	.941259	.63	.942944	.13	.944535	.63	.946039	.13	.947463
.14	.941294	.64	.942977	.14	.944566	.64	.946068	.14	.947491
15.15	.941328	15.65	.943009	16.15	.944596	16.65	.946097	17.15	.947518
.16	.941363	.66	.943042	.16	.944627	.66	.946126	.16	.947546
.17	.941397	.67	.943075	.17	.944658	.67	.946155	.17	.947574
.18	.941432	.68	.943107	.18	.944689	.68	.946184	.18	.947601
.19	.941466	.69	.943140	.19	.944720	.69	.946214	.19	.947629
15.20	.941501	15.70	.943172	16.20	.944750	16.70	.946243	17.20	.947656
.21	.941535	.71	.943205	.21	.944781	.71	.946272	.21	.947684
.22	.941569	.72	.943237	.22	.944812	.72	.946301	.22	.947711
.23	.941604	.73	.943269	.23	.944842	.73	.946330	.23	.947739
.24	.941638	.74	.943302	.24	.944873	.74	.946359	.24	.947766
15.25	.941672	15.75	.943334	16.25	.944903	16.75	.946387	17.25	.947793
.26	.941707	.76	.943366	.26	.944934	.76	.946416	.26	.947821
.27	.941741	.77	.943398	.27	.944964	.77	.946445	.27	.947848
.28	.941775	.78	.943431	.28	.944995	.78	.946474	.28	.947876
.29	.941809	.79	.943463	.29	.945025	.79	.946503	.29	.947903
15.30	.941843	15.80	.943495	16.30	.945055	16.80	.946531	17.30	.947930
.31	.941877	.81	.943527	.31	.945086	.81	.946560	.31	.947957
.32	.941911	.82	.943559	.32	.945116	.82	.946589	.32	.947984
.33	.941945	.83	.943591	.33	.945146	.83	.946617	.33	.948012
.34	.941979	.84	.943623	.34	.945176	.84	.946646	.34	.948039
15.35	.942012	15.85	.943655	16.35	.945207	16.85	.946675	17.35	.948066
.36	.942046	.86	.943687	.36	.945237	.86	.946703	.36	.948093
.37	.942080	.87	.943719	.37	.945267	.87	.946732	.37	.948120
.38	.942114	.88	.943751	.38	.945297	.88	.946760	.38	.948147
.39	.942147	.89	.943782	.39	.945327	.89	.946789	.39	.948174
15.40	.942181	15.90	.943814	16.40	.945357	16.90	.946817	17.40	.948201
.41	.942215	.91	.943846	.41	.945387	.91	.946846	.41	.948228
.42	.942248	.92	.943877	.42	.945417	.92	.946874	.42	.948255
.43	.942282	.93	.943909	.43	.945447	.93	.946902	.43	.948282
.44	.942315	.94	.943941	.44	.945477	.94	.946931	.44	.948309
15.45	.942349	15.95	.943972	16.45	.945507	16.95	.946959	17.45	.948335
.46	.942382	.96	.944004	.46	.945537	.96	.946987	.46	.948362
.47	.942415	.97	.944035	.47	.945566	.97	.947015	.47	.948389
.48	.942449	.98	.944067	.48	.945596	.98	.947044	.48	.948416
.49	.942482	.99	.944098	.49	.945626	.99	.947072	.49	.948442
15.50	.942515	16.00	.944130	16.50	.945655	17.00	.947100	17.50	.948469



Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
17.50	.948469	18.00	.949769	18.50	.951005	19.00	.952181	19.50	.953302
.51	.948496	.01	.949794	.51	.951029	.01	.952204	.51	.953323
.52	.948522	.02	.949820	.52	.951053	.02	.952227	.52	.953345
.53	.948549	.03	.949845	.53	.951077	.03	.952250	.53	.953367
.54	.948576	.04	.949870	.54	.951101	.04	.952272	.54	.953389
17.55	.948602	18.05	.949895	18.55	.951125	19.05	.952295	19.55	.953411
.56	.948629	.06	.949921	.56	.951149	.06	.952318	.56	.953433
.57	.948655	.07	.949946	.57	.951173	.07	.952341	.57	.953454
.58	.948682	.08	.949971	.58	.951197	.08	.952364	.58	.953476
.59	.948708	.09	.949996	.59	.951221	.09	.952387	.59	.953498
17.60	.948734	18.10	.950021	18.60	.951245	19.10	.952409	19.60	.953519
.61	.948761	.11	.950046	.61	.951268	.11	.952432	.61	.953541
.62	.948787	.12	.950071	.62	.951292	.12	.952455	.62	.953563
.63	.948814	.13	.950096	.63	.951316	.13	.952477	.63	.953584
.64	.948840	.14	.950121	.64	.951340	.14	.952500	.64	.953606
17.65	.948866	18.15	.950146	18.65	.951364	19.15	.952523	19.65	.953628
.66	.948892	.16	.950171	.66	.951387	.16	.952545	.66	.953649
.67	.948919	.17	.950196	.67	.951411	.17	.952568	.67	.953671
.68	.948945	.18	.950221	.68	.951435	.18	.952590	.68	.953692
.69	.948971	.19	.950246	.69	.951458	.19	.952613	.69	.953714
17.70	.948997	18.20	.950271	18.70	.951482	19.20	.952636	19.70	.953735
.71	.949023	.21	.950296	.71	.951506	.21	.952658	.71	.953757
.72	.949049	.22	.950320	.72	.951529	.22	.952681	.72	.953778
.73	.949075	.23	.950345	.73	.951553	.23	.952703	.73	.953800
.74	.949101	.24	.950370	.74	.951576	.24	.952725	.74	.953821
17.75	.949127	18.25	.950395	18.75	.951600	19.25	.952748	19.75	.953842
.76	.949153	.26	.950419	.76	.951623	.26	.952770	.76	.953864
.77	.949179	.27	.950444	.77	.951647	.27	.952793	.77	.953885
.78	.949205	.28	.950469	.78	.951670	.28	.952815	.78	.953907
.79	.949231	.29	.950493	.79	.951694	.29	.952837	.79	.953928
17.80	.949257	18.30	.950518	18.80	.951717	19.30	.952860	19.80	.953949
.81	.949283	.31	.950542	.81	.951741	.31	.952882	.81	.953970
.82	.949309	.32	.950567	.82	.951764	.32	.952904	.82	.953992
.83	.949334	.33	.950591	.83	.951787	.33	.952927	.83	.954013
.84	.949360	.34	.950616	.84	.951811	.34	.952949	.84	.954034
17.85	.949386	18.35	.950640	18.85	.951834	19.35	.952971	19.85	.954055
.86	.949412	.36	.950665	.86	.951857	.36	.952993	.86	.954076
.87	.949437	.37	.950689	.87	.951881	.37	.953015	.87	.954098
.88	.949463	.38	.950714	.88	.951904	.38	.953037	.88	.954119
.89	.949489	.39	.950738	.89	.951927	.39	.953060	.89	.954140
17.90	.949514	18.40	.950762	18.90	.951950	19.40	.953082	19.90	.954161
.91	.949540	.41	.950787	.91	.951973	.41	.953104	.91	.954182
.92	.949565	.42	.950811	.92	.951996	.42	.953126	.92	.954203
.93	.949591	.43	.950835	.93	.952020	.43	.953148	.93	.954224
.94	.949616	.44	.950860	.94	.952043	.44	.953170	.94	.954245
17.95	.949642	18.45	.950884	18.95	.952066	19.45	.953192	19.95	.954266
.96	.949667	.46	.950908	.96	.952089	.46	.953214	.96	.954287
.97	.949693	.47	.950932	.97	.952112	.47	.953236	.97	.954308
.98	.949718	.48	.950956	.98	.952135	.48	.953258	.98	.954329
.99	.949744	.49	.950981	.99	.952158	.49	.953280	.99	.954350
18.00	.949769	18.50	.951005	19.00	.952181	19.50	.953302	20.00	.954371

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
20.00	.954371	20.50	.955392	21.00	.956369	21.50	.957303	22.00	.958198
.01	.954392	.51	.955412	.01	.956388	.51	.957321	.01	.958216
.02	.954413	.52	.955432	.02	.956407	.52	.957340	.02	.958233
.03	.954434	.53	.955452	.03	.956426	.53	.957358	.03	.958251
.04	.954454	.54	.955472	.04	.956445	.54	.957376	.04	.958268
20.05	.954475	20.55	.955492	21.05	.956464	21.55	.957394	22.05	.958286
.06	.954496	.56	.955512	.06	.956483	.56	.957413	.06	.958303
.07	.954517	.57	.955532	.07	.956502	.57	.957431	.07	.958321
.08	.954537	.58	.955551	.08	.956521	.58	.957449	.08	.958338
.09	.954558	.59	.955571	.09	.956540	.59	.957467	.09	.958355
20.10	.954579	20.60	.955591	21.10	.956559	21.60	.957485	22.10	.958373
.11	.954600	.61	.955611	.11	.956578	.61	.957503	.11	.958390
.12	.954620	.62	.955630	.12	.956597	.62	.957521	.12	.958407
.13	.954641	.63	.955650	.13	.956615	.63	.957539	.13	.958425
.14	.954662	.64	.955670	.14	.956634	.64	.957558	.14	.958442
20.15	.954682	20.65	.955690	21.15	.956653	21.65	.957576	22.15	.958459
.16	.954703	.66	.955709	.16	.956672	.66	.957594	.16	.958477
.17	.954723	.67	.955729	.17	.956691	.67	.957612	.17	.958494
.18	.954744	.68	.955749	.18	.956710	.68	.957630	.18	.958511
.19	.954764	.69	.955768	.19	.956728	.69	.957648	.19	.958529
20.20	.954785	20.70	.955788	21.20	.956747	21.70	.957666	22.20	.958546
.21	.954806	.71	.955808	.21	.956766	.71	.957684	.21	.958563
.22	.954826	.72	.955827	.22	.956785	.72	.957702	.22	.958580
.23	.954846	.73	.955847	.23	.956803	.73	.957720	.23	.958597
.24	.954867	.74	.955866	.24	.956822	.74	.957737	.24	.958615
20.25	.954887	20.75	.955886	21.25	.956841	21.75	.957755	22.25	.958632
.26	.954908	.76	.955905	.26	.956860	.76	.957773	.26	.958649
.27	.954928	.77	.955925	.27	.956878	.77	.957791	.27	.958666
.28	.954949	.78	.955944	.28	.956897	.78	.957809	.28	.958683
.29	.954969	.79	.955964	.29	.956916	.79	.957827	.29	.958700
20.30	.954989	20.80	.955983	21.30	.956934	21.80	.957845	22.30	.958717
.31	.955010	.81	.956003	.31	.956953	.81	.957863	.31	.958735
.32	.955030	.82	.956022	.32	.956971	.82	.957880	.32	.958752
.33	.955050	.83	.956041	.33	.956990	.83	.957898	.33	.958769
.34	.955070	.84	.956061	.34	.957008	.84	.957916	.34	.958786
20.35	.955091	20.85	.956080	21.35	.957027	21.85	.957934	22.35	.958803
.36	.955111	.86	.956100	.36	.957045	.86	.957951	.36	.958820
.37	.955131	.87	.956119	.37	.957064	.87	.957969	.37	.958837
.38	.955151	.88	.956138	.38	.957082	.88	.957987	.38	.958854
.39	.955171	.89	.956157	.39	.957101	.89	.958005	.39	.958871
20.40	.955192	20.90	.956177	21.40	.957119	21.90	.958022	22.40	.958888
.41	.955212	.91	.956196	.41	.957138	.91	.958040	.41	.958905
.42	.955232	.92	.956215	.42	.957156	.92	.958058	.42	.958922
.43	.955252	.93	.956234	.43	.957175	.93	.958075	.43	.958938
.44	.955272	.94	.956254	.44	.957193	.94	.958093	.44	.958955
20.45	.955292	20.95	.956273	21.45	.957211	21.95	.958110	22.45	.958972
.46	.955312	.96	.956292	.46	.957230	.96	.958128	.46	.958989
.47	.955332	.97	.956311	.47	.957248	.97	.958146	.47	.959006
.48	.955352	.98	.956330	.48	.957266	.98	.958163	.48	.959023
.49	.955372	.99	.956349	.49	.957285	.99	.958181	.49	.959040
20.50	.955392	21.00	.956369	21.50	.957303	22.00	.958198	22.50	.959057

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
22.50	.959057	23.00	.959880	23.50	.960671	24.00	.961432	24.50	.962163
.51	.959073	.01	.959896	.51	.960687	.01	.961447	.51	.962178
.52	.959090	.02	.959912	.52	.960702	.02	.961462	.52	.962192
.53	.959107	.03	.959929	.53	.960718	.03	.961476	.53	.962206
.54	.959124	.04	.959945	.54	.960733	.04	.961491	.54	.962221
22.55	.959140	23.05	.959961	23.55	.960749	24.05	.961506	24.55	.962235
.56	.959157	.06	.959977	.56	.960764	.06	.961521	.56	.962249
.57	.959174	.07	.959993	.57	.960780	.07	.961536	.57	.962263
.58	.959191	.08	.960009	.58	.960795	.08	.961551	.58	.962278
.59	.959207	.09	.960025	.59	.960810	.09	.961565	.59	.962292
22.60	.959224	23.10	.960041	23.60	.960826	24.10	.961580	24.60	.962306
.61	.959241	.11	.960057	.61	.960841	.11	.961595	.61	.962320
.62	.959257	.12	.960073	.62	.960857	.12	.961610	.62	.962335
.63	.959274	.13	.960089	.63	.960872	.13	.961625	.63	.962349
.64	.959291	.14	.960105	.64	.960887	.14	.961639	.64	.962363
22.65	.959307	23.15	.960121	23.65	.960903	24.15	.961654	24.65	.962377
.66	.959324	.16	.960137	.66	.960918	.16	.961669	.66	.962391
.67	.959340	.17	.960153	.67	.960933	.17	.961684	.67	.962406
.68	.959357	.18	.960169	.68	.960948	.18	.961698	.68	.962420
.69	.959373	.19	.960185	.69	.960964	.19	.961713	.69	.962434
22.70	.959390	23.20	.960200	23.70	.960979	24.20	.961728	24.70	.962448
.71	.959407	.21	.960216	.71	.960994	.21	.961742	.71	.962462
.72	.959423	.22	.960232	.72	.961010	.22	.961757	.72	.962476
.73	.959440	.23	.960248	.73	.961025	.23	.961772	.73	.962490
.74	.959456	.24	.960264	.74	.961040	.24	.961786	.74	.962505
22.75	.959473	23.25	.960280	23.75	.961055	24.25	.961801	24.75	.962519
.76	.959489	.26	.960296	.76	.961070	.26	.961816	.76	.962533
.77	.959505	.27	.960311	.77	.961086	.27	.961830	.77	.962547
.78	.959522	.28	.960327	.78	.961101	.28	.961845	.78	.962561
.79	.959538	.29	.960343	.79	.961116	.29	.961859	.79	.962575
22.80	.959555	23.30	.960359	23.80	.961131	24.30	.961874	24.80	.962589
.81	.959571	.31	.960374	.81	.961146	.31	.961889	.81	.962603
.82	.959588	.32	.960390	.82	.961161	.32	.961903	.82	.962617
.83	.959604	.33	.960406	.83	.961177	.33	.961918	.83	.962631
.84	.959620	.34	.960422	.84	.961192	.34	.961932	.84	.962645
22.85	.959637	23.35	.960437	23.85	.961207	24.35	.961947	24.85	.962659
.86	.959653	.36	.960453	.86	.961222	.36	.961961	.86	.962673
.87	.959669	.37	.960469	.87	.961237	.37	.961976	.87	.962687
.88	.959686	.38	.960484	.88	.961252	.38	.961990	.88	.962701
.89	.959702	.39	.960500	.89	.961267	.39	.962005	.89	.962715
22.90	.959718	23.40	.960516	23.90	.961282	24.40	.962019	24.90	.962729
.91	.959734	.41	.960531	.91	.961297	.41	.962034	.91	.962743
.92	.959751	.42	.960547	.92	.961312	.42	.962048	.92	.962757
.93	.959767	.43	.960562	.93	.961327	.43	.962063	.93	.962770
.94	.959783	.44	.960578	.94	.961342	.44	.962077	.94	.962784
22.95	.959799	23.45	.960594	23.95	.961357	24.45	.962091	24.95	.962798
.96	.959816	.46	.960609	.96	.961372	.46	.962106	.96	.962812
.97	.959832	.47	.960625	.97	.961387	.47	.962120	.97	.962826
.98	.959848	.48	.960640	.98	.961402	.48	.962135	.98	.962840
.99	.959864	.49	.960656	.99	.961417	.49	.962149	.99	.962854
23.00	.959880	23.50	.960671	24.00	.961432	24.50	.962163	25.00	.962867

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
25.0	.962867	30.0	.968692	35.0	.972935	40.0	.976165	45.0	.978705
.1	.963005	.1	.968790	.1	.973008	.1	.976221	.1	.978750
.2	.963142	.2	.968887	.2	.973081	.2	.976278	.2	.978795
.3	.963278	.3	.968984	.3	.973154	.3	.976334	.3	.978840
.4	.963412	.4	.969080	.4	.973226	.4	.976390	.4	.978885
25.5	.963546	30.5	.969176	35.5	.973297	40.5	.976446	45.5	.978929
.6	.963679	.6	.969270	.6	.973368	.6	.976501	.6	.978974
.7	.963810	.7	.969365	.7	.973439	.7	.976556	.7	.979018
.8	.963941	.8	.969458	.8	.973510	.8	.976611	.8	.979062
.9	.964071	.9	.969552	.9	.973580	.9	.976666	.9	.979106
26.0	.964200	31.0	.969644	36.0	.973649	41.0	.976720	46.0	.979149
.1	.964328	.1	.969736	.1	.973719	.1	.976774	.1	.979193
.2	.964455	.2	.969828	.2	.973788	.2	.976828	.2	.979236
.3	.964581	.3	.969919	.3	.973856	.3	.976882	.3	.979279
.4	.964706	.4	.970009	.4	.973925	.4	.976935	.4	.979322
26.5	.964831	31.5	.970099	36.5	.973992	41.5	.976988	46.5	.979365
.6	.964954	.6	.970188	.6	.974060	.6	.977041	.6	.979407
.7	.965077	.7	.970277	.7	.974127	.7	.977094	.7	.979449
.8	.965199	.8	.970365	.8	.974194	.8	.977146	.8	.979492
.9	.965320	.9	.970453	.9	.974261	.9	.977198	.9	.979534
27.0	.965440	32.0	.970540	37.0	.974327	42.0	.977250	47.0	.979575
.1	.965559	.1	.970627	.1	.974393	.1	.977302	.1	.979617
.2	.965678	.2	.970713	.2	.974458	.2	.977353	.2	.979659
.3	.965795	.3	.970798	.3	.974523	.3	.977405	.3	.979700
.4	.965912	.4	.970884	.4	.974588	.4	.977456	.4	.979741
27.5	.966028	32.5	.970968	37.5	.974653	42.5	.977506	47.5	.979782
.6	.966143	.6	.971052	.6	.974717	.6	.977557	.6	.979823
.7	.966258	.7	.971136	.7	.974781	.7	.977607	.7	.979864
.8	.966372	.8	.971219	.8	.974844	.8	.977657	.8	.979904
.9	.966485	.9	.971302	.9	.974907	.9	.977707	.9	.979944
28.0	.966597	33.0	.971384	38.0	.974970	43.0	.977757	48.0	.979985
.1	.966708	.1	.971466	.1	.975033	.1	.977806	.1	.980025
.2	.966819	.2	.971547	.2	.975095	.2	.977855	.2	.980064
.3	.966929	.3	.971628	.3	.975157	.3	.977904	.3	.980104
.4	.967038	.4	.971708	.4	.975218	.4	.977953	.4	.980144
28.5	.967146	33.5	.971788	38.5	.975280	43.5	.978002	48.5	.980183
.6	.967254	.6	.971868	.6	.975341	.6	.978050	.6	.980222
.7	.967361	.7	.971947	.7	.975402	.7	.978098	.7	.980261
.8	.967468	.8	.972026	.8	.975462	.8	.978146	.8	.980300
.9	.967573	.9	.972104	.9	.975522	.9	.978194	.9	.980339
29.0	.967678	34.0	.972181	39.0	.975582	44.0	.978241	49.0	.980378
.1	.967783	.1	.972259	.1	.975642	.1	.978288	.1	.980416
.2	.967886	.2	.972336	.2	.975701	.2	.978335	.2	.980454
.3	.967989	.3	.972412	.3	.975760	.3	.978382	.3	.980493
.4	.968092	.4	.972488	.4	.975818	.4	.978429	.4	.980531
29.5	.968193	34.5	.972564	39.5	.975877	44.5	.978475	49.5	.980568
.6	.968294	.6	.972639	.6	.975935	.6	.978522	.6	.980606
.7	.968395	.7	.972713	.7	.975993	.7	.978568	.7	.980644
.8	.968495	.8	.972788	.8	.976050	.8	.978614	.8	.980681
.9	.968594	.9	.972862	.9	.976108	.9	.978659	.9	.980718
30.0	.968692	35.0	.972935	40.0	.976165	45.0	.978705	50.0	.980755

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
50.0	.980755	55.0	.982446	60.0	.983863	65.0	.985068	70.0	.986106
.1	.980792	.1	.982476	.1	.983889	.1	.985090	.1	.986125
.2	.980829	.2	.982507	.2	.983915	.2	.985113	.2	.986144
.3	.980866	.3	.982538	.3	.983941	.3	.985135	.3	.986164
.4	.980903	.4	.982568	.4	.983966	.4	.985157	.4	.986183
50.5	.980939	55.5	.982599	60.5	.983992	65.5	.985179	70.5	.986202
.6	.980975	.6	.982629	.6	.984018	.6	.985201	.6	.986221
.7	.981011	.7	.982659	.7	.984043	.7	.985223	.7	.986240
.8	.981047	.8	.982689	.8	.984069	.8	.985244	.8	.986259
.9	.981083	.9	.982719	.9	.984094	.9	.985266	.9	.986278
51.0	.981119	56.0	.982749	61.0	.984119	66.0	.985288	71.0	.986296
.1	.981155	.1	.982778	.1	.984144	.1	.985310	.1	.986315
.2	.981190	.2	.982808	.2	.984170	.2	.985331	.2	.986334
.3	.981226	.3	.982838	.3	.984195	.3	.985353	.3	.986352
.4	.981261	.4	.982867	.4	.984220	.4	.985374	.4	.986371
51.5	.981296	56.5	.982896	61.5	.984244	66.5	.985395	71.5	.986390
.6	.981331	.6	.982926	.6	.984269	.6	.985417	.6	.986408
.7	.981366	.7	.982955	.7	.984294	.7	.985438	.7	.986427
.8	.981400	.8	.982984	.8	.984319	.8	.985459	.8	.986445
.9	.981435	.9	.983013	.9	.984343	.9	.985480	.9	.986463
52.0	.981469	57.0	.983041	62.0	.984368	67.0	.985501	72.0	.986482
.1	.981504	.1	.983070	.1	.984392	.1	.985522	.1	.986500
.2	.981538	.2	.983099	.2	.984416	.2	.985543	.2	.986518
.3	.981572	.3	.983127	.3	.984441	.3	.985564	.3	.986536
.4	.981606	.4	.983156	.4	.984465	.4	.985585	.4	.986554
52.5	.981639	57.5	.983184	62.5	.984489	67.5	.985606	72.5	.986572
.6	.981673	.6	.983212	.6	.984513	.6	.985626	.6	.986590
.7	.981707	.7	.983240	.7	.984537	.7	.985647	.7	.986608
.8	.981740	.8	.983269	.8	.984561	.8	.985668	.8	.986626
.9	.981773	.9	.983296	.9	.984585	.9	.985688	.9	.986644
53.0	.981807	58.0	.983324	63.0	.984608	68.0	.985709	73.0	.986662
.1	.981840	.1	.983352	.1	.984632	.1	.985729	.1	.986680
.2	.981873	.2	.983380	.2	.984656	.2	.985749	.2	.986698
.3	.981905	.3	.983407	.3	.984679	.3	.985770	.3	.986715
.4	.981938	.4	.983435	.4	.984703	.4	.985790	.4	.986733
53.5	.981971	58.5	.983462	63.5	.984726	68.5	.985810	73.5	.986750
.6	.982003	.6	.983490	.6	.984749	.6	.985830	.6	.986768
.7	.982035	.7	.983517	.7	.984772	.7	.985850	.7	.986785
.8	.982068	.8	.983544	.8	.984796	.8	.985870	.8	.986803
.9	.982100	.9	.983571	.9	.984819	.9	.985890	.9	.986820
54.0	.982132	59.0	.983598	64.0	.984842	69.0	.985910	74.0	.986838
.1	.982164	.1	.983625	.1	.984865	.1	.985930	.1	.986855
.2	.982196	.2	.983652	.2	.984888	.2	.985950	.2	.986872
.3	.982227	.3	.983678	.3	.984910	.3	.985969	.3	.986889
.4	.982259	.4	.983705	.4	.984933	.4	.985989	.4	.986907
54.5	.982290	59.5	.983731	64.5	.984956	69.5	.986009	74.5	.986924
.6	.982321	.6	.983758	.6	.984978	.6	.986028	.6	.986941
.7	.982353	.7	.983784	.7	.985001	.7	.986048	.7	.986958
.8	.982384	.8	.983811	.8	.985023	.8	.986067	.8	.986975
.9	.982415	.9	.983837	.9	.985046	.9	.986087	.9	.986992
55.0	.982446	60.0	.983863	65.0	.985068	70.0	.986106	75.0	.987009

Table of  $U(z)$ 

$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$	$z$	$U(z)$
75.0	.987009	80.0	.987801	85.0	.988503	90.0	.989128	95.0	.989689
.1	.987026	.1	.987816	.1	.988516	.1	.989140	.1	.989699
.2	.987042	.2	.987831	.2	.988529	.2	.989152	.2	.989710
.3	.987059	.3	.987846	.3	.988542	.3	.989163	.3	.989720
.4	.987076	.4	.987861	.4	.988555	.4	.989175	.4	.989731
75.5	.987093	80.5	.987875	85.5	.988569	90.5	.989187	95.5	.989741
.6	.987109	.6	.987890	.6	.988582	.6	.989198	.6	.989752
.7	.987126	.7	.987905	.7	.988595	.7	.989210	.7	.989762
.8	.987142	.8	.987919	.8	.988608	.8	.989222	.8	.989773
.9	.987159	.9	.987934	.9	.988621	.9	.989233	.9	.989783
76.0	.987175	81.0	.987948	86.0	.988633	91.0	.989245	96.0	.989794
.1	.987192	.1	.987963	.1	.988646	.1	.989256	.1	.989804
.2	.987208	.2	.987977	.2	.988659	.2	.989268	.2	.989815
.3	.987225	.3	.987992	.3	.988672	.3	.989279	.3	.989825
.4	.987241	.4	.988006	.4	.988685	.4	.989291	.4	.989835
76.5	.987257	81.5	.988021	86.5	.988698	91.5	.989302	96.5	.989846
.6	.987273	.6	.988035	.6	.988711	.6	.989314	.6	.989856
.7	.987290	.7	.988049	.7	.988723	.7	.989325	.7	.989866
.8	.987306	.8	.988064	.8	.988736	.8	.989337	.8	.989877
.9	.987322	.9	.988078	.9	.988749	.9	.989348	.9	.989887
77.0	.987338	82.0	.988092	87.0	.988761	92.0	.989359	97.0	.989897
.1	.987354	.1	.988106	.1	.988774	.1	.989371	.1	.989907
.2	.987370	.2	.988120	.2	.988786	.2	.989382	.2	.989917
.3	.987386	.3	.988134	.3	.988799	.3	.989393	.3	.989928
.4	.987402	.4	.988148	.4	.988812	.4	.989404	.4	.989938
77.5	.987417	82.5	.988162	87.5	.988824	92.5	.989416	97.5	.989948
.6	.987433	.6	.988176	.6	.988837	.6	.989427	.6	.989958
.7	.987449	.7	.988190	.7	.988849	.7	.989438	.7	.989968
.8	.987465	.8	.988204	.8	.988861	.8	.989449	.8	.989978
.9	.987481	.9	.988218	.9	.988874	.9	.989460	.9	.989988
78.0	.987496	83.0	.988232	88.0	.988886	93.0	.989471	98.0	.989998
.1	.987512	.1	.988246	.1	.988899	.1	.989482	.1	.990008
.2	.987527	.2	.988260	.2	.988911	.2	.989494	.2	.990018
.3	.987543	.3	.988274	.3	.988923	.3	.989505	.3	.990028
.4	.987558	.4	.988287	.4	.988935	.4	.989516	.4	.990038
78.5	.987574	83.5	.988301	88.5	.988948	93.5	.989527	98.5	.990048
.6	.987589	.6	.988315	.6	.988960	.6	.989538	.6	.990058
.7	.987605	.7	.988328	.7	.988972	.7	.989548	.7	.990068
.8	.987620	.8	.988342	.8	.988984	.8	.989559	.8	.990077
.9	.987635	.9	.988355	.9	.988996	.9	.989570	.9	.990087
79.0	.987651	84.0	.988369	89.0	.989008	94.0	.989581	99.0	.990097
.1	.987666	.1	.988383	.1	.989020	.1	.989592	.1	.990107
.2	.987681	.2	.988396	.2	.989033	.2	.989603	.2	.990117
.3	.987696	.3	.988409	.3	.989045	.3	.989614	.3	.990126
.4	.987711	.4	.988423	.4	.989057	.4	.989624	.4	.990136
79.5	.987726	84.5	.988436	89.5	.989068	94.5	.989635	99.5	.990146
.6	.987742	.6	.988450	.6	.989080	.6	.989646	.6	.990156
.7	.987757	.7	.988463	.7	.989092	.7	.989657	.7	.990165
.8	.987771	.8	.988476	.8	.989104	.8	.989667	.8	.990175
.9	.987786	.9	.988490	.9	.989116	.9	.989678	.9	.990185
80.0	.987801	85.0	.988503	90.0	.989128	95.0	.989689	100.0	.990194

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$\mathcal{S}(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	1.000017	1.000350	1.000682	1.001011	1.001337	1.001657	.003333
.02	1.000067	1.000733	1.001397	1.002056	1.002708	1.003350	.006667
.03	1.000150	1.001150	1.002146	1.003136	1.004115	1.005079	.010001
.04	1.000267	1.001600	1.002930	1.004250	1.005556	1.006843	.013335
.05	1.000417	1.002084	1.003746	1.005398	1.007032	1.008643	.016671
.06	1.000600	1.002601	1.004597	1.006581	1.008544	1.010480	.020007
.07	1.000817	1.003152	1.005482	1.007798	1.010091	1.012352	.023345
.08	1.001067	1.003736	1.006401	1.009050	1.011673	1.014261	.026684
.09	1.001351	1.004355	1.007354	1.010336	1.013291	1.016206	.030024
.10	1.001668	1.005006	1.008341	1.011658	1.014944	1.018187	.033367
.11	1.002018	1.005692	1.009362	1.013014	1.016633	1.020205	.036711
.12	1.002402	1.006411	1.010418	1.014405	1.018357	1.022260	.040058
.13	1.002819	1.007164	1.011507	1.015831	1.020117	1.024352	.043407
.14	1.003270	1.007951	1.012631	1.017292	1.021914	1.026480	.046758
.15	1.003754	1.008772	1.013790	1.018788	1.023746	1.028646	.050113
.16	1.004272	1.009627	1.014983	1.020319	1.025615	1.030849	.053470
.17	1.004824	1.010516	1.016211	1.021886	1.027520	1.033089	.056831
.18	1.005409	1.011439	1.017473	1.023489	1.029461	1.035367	.060195
.19	1.006028	1.012396	1.018770	1.025126	1.031439	1.037683	.063562
.20	1.006680	1.013387	1.020102	1.026800	1.033453	1.040036	.066934
.21	1.007366	1.014412	1.021469	1.028509	1.035504	1.042427	.070309
.22	1.008086	1.015472	1.022871	1.030254	1.037592	1.044857	.073689
.23	1.008840	1.016566	1.024308	1.032035	1.039717	1.047324	.077073
.24	1.009628	1.017694	1.025780	1.033852	1.041880	1.049830	.080462
.25	1.010449	1.018857	1.027287	1.035706	1.044079	1.052375	.083855
.26	1.011305	1.020055	1.028830	1.037595	1.046316	1.054958	.087254
.27	1.012194	1.021287	1.030408	1.039521	1.048591	1.057580	.090658
.28	1.013118	1.022554	1.032021	1.041484	1.050903	1.060242	.094067
.29	1.014076	1.023855	1.033671	1.043483	1.053253	1.062942	.097482
.30	1.015068	1.025192	1.035356	1.045519	1.055641	1.065682	.100903
.31	1.016094	1.026563	1.037076	1.047592	1.058067	1.068461	.104330
.32	1.017154	1.027969	1.038833	1.049702	1.060531	1.071280	.107763
.33	1.018249	1.029411	1.040626	1.051848	1.063034	1.074139	.111203
.34	1.019378	1.030887	1.042454	1.054033	1.065576	1.077038	.114649
.35	1.020542	1.032399	1.044320	1.056254	1.068156	1.079977	.118102
.36	1.021740	1.033947	1.046221	1.058514	1.070775	1.082957	.121562
.37	1.022973	1.035530	1.048159	1.060810	1.073433	1.085977	.125030
.38	1.024241	1.037148	1.050133	1.063145	1.076130	1.089038	.128505
.39	1.025543	1.038802	1.052145	1.065518	1.078867	1.092140	.131988
.40	1.026881	1.040492	1.054193	1.067928	1.081643	1.095283	.135479
.41	1.028253	1.042217	1.056278	1.070377	1.084459	1.098468	.138978
.42	1.029660	1.043979	1.058400	1.072865	1.087315	1.101694	.142485
.43	1.031103	1.045777	1.060559	1.075391	1.090211	1.104961	.146001
.44	1.032580	1.047611	1.062756	1.077955	1.093147	1.108271	.149526
.45	1.034093	1.049481	1.064990	1.080559	1.096124	1.111623	.153060
.46	1.035642	1.051387	1.067262	1.083201	1.099141	1.115018	.156602
.47	1.037225	1.053330	1.069571	1.085883	1.102199	1.118455	.160155
.48	1.038845	1.055310	1.071919	1.088604	1.105298	1.121934	.163717
.49	1.040500	1.057326	1.074304	1.091365	1.108439	1.125457	.167289
.50	1.042191	1.059380	1.076728	1.094165	1.111620	1.129023	.170871

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$S(y)$
.50	1.042191	1.059380	1.076728	1.094165	1.111620	1.129023	.170871
.51	1.043917	1.061470	1.079190	1.097005	1.114843	1.132633	.174463
.52	1.045680	1.063598	1.081690	1.099885	1.118108	1.136286	.178066
.53	1.047479	1.065762	1.084229	1.102805	1.121415	1.139983	.181679
.54	1.049314	1.067964	1.086807	1.105766	1.124764	1.143724	.185304
.55	1.051185	1.070204	1.089424	1.108767	1.128156	1.147510	.188939
.56	1.053092	1.072481	1.092080	1.111809	1.131590	1.151340	.192586
.57	1.055037	1.074796	1.094775	1.114892	1.135066	1.155215	.196245
.58	1.057017	1.077149	1.097509	1.118016	1.138586	1.159135	.199916
.59	1.059035	1.079540	1.100283	1.121182	1.142149	1.163101	.203598
.60	1.061089	1.081970	1.103097	1.124388	1.145756	1.167112	.207293
.61	1.063181	1.084437	1.105951	1.127637	1.149406	1.171169	.211001
.62	1.065309	1.086943	1.108845	1.130927	1.153100	1.175272	.214721
.63	1.067475	1.089488	1.111779	1.134260	1.156838	1.179421	.218454
.64	1.069678	1.092072	1.114754	1.137635	1.160621	1.183617	.222200
.65	1.071919	1.094695	1.117769	1.141052	1.164448	1.187860	.225960
.66	1.074193	1.097356	1.120826	1.144512	1.168320	1.192150	.229733
.67	1.076514	1.100057	1.123923	1.148015	1.172237	1.196487	.233521
.68	1.078868	1.102798	1.127061	1.151561	1.176199	1.200872	.237322
.69	1.081260	1.105578	1.130241	1.155151	1.180207	1.205305	.241138
.70	1.083691	1.108398	1.133462	1.158784	1.184261	1.209786	.244969
.71	1.086160	1.111258	1.136725	1.162461	1.188360	1.214316	.248814
.72	1.088667	1.114158	1.140030	1.166182	1.192506	1.218895	.252674
.73	1.091213	1.117099	1.143378	1.169947	1.196699	1.223522	.256550
.74	1.093798	1.120079	1.146767	1.173757	1.200938	1.228199	.260441
.75	1.096422	1.123101	1.150200	1.177611	1.205225	1.232926	.264348
.76	1.099085	1.126163	1.153675	1.181511	1.209559	1.237702	.268271
.77	1.101788	1.129267	1.157193	1.185456	1.213940	1.242529	.272210
.78	1.104530	1.132412	1.160754	1.189446	1.218370	1.247406	.276166
.79	1.107311	1.135598	1.164359	1.193481	1.222847	1.252334	.280139
.80	1.110132	1.138826	1.168007	1.197563	1.227373	1.257314	.284128
.81	1.112994	1.142095	1.171700	1.201691	1.231948	1.262345	.288135
.82	1.115895	1.145407	1.175436	1.205866	1.236572	1.267427	.292159
.83	1.118837	1.148761	1.179217	1.210087	1.241245	1.272562	.296201
.84	1.121819	1.152157	1.183042	1.214355	1.245967	1.277749	.300261
.85	1.124842	1.155596	1.186912	1.218670	1.250740	1.282989	.304340
.86	1.127906	1.159078	1.190828	1.223033	1.255563	1.288282	.308436
.87	1.131011	1.162603	1.194788	1.227443	1.260436	1.293629	.312552
.88	1.134157	1.166171	1.198794	1.231902	1.265360	1.299029	.316686
.89	1.137345	1.169782	1.202846	1.236409	1.270335	1.304483	.320840
.90	1.140574	1.173438	1.206944	1.240964	1.275362	1.309992	.325014
.91	1.143845	1.177137	1.211088	1.245569	1.280440	1.315556	.329207
.92	1.147158	1.180880	1.215279	1.250222	1.285570	1.321174	.333420
.93	1.150514	1.184668	1.219516	1.254926	1.290753	1.326849	.337653
.94	1.153911	1.188500	1.223801	1.259678	1.295988	1.332579	.341908
.95	1.157352	1.192378	1.228133	1.264481	1.301276	1.338365	.346183
.96	1.160835	1.196300	1.232512	1.269334	1.306618	1.344208	.350479
.97	1.164362	1.200268	1.236940	1.274238	1.312013	1.350108	.354796
.98	1.167931	1.204281	1.241415	1.279193	1.317462	1.356065	.359135
.99	1.171544	1.208340	1.245939	1.284199	1.322966	1.362080	.363496
1.00	1.175201	1.212445	1.250511	1.289256	1.328524	1.368153	.367879



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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$\mathcal{S}(y)$
1.00	1.175201	1.212445	1.250511	1.289256	1.328524	1.368153	.367879
1.01	1.178902	1.216597	1.255133	1.294366	1.334138	1.374284	.372285
1.02	1.182647	1.220795	1.259804	1.299527	1.339807	1.380475	.376714
1.03	1.186436	1.225039	1.264524	1.304741	1.345531	1.386724	.381165
1.04	1.190270	1.229331	1.269294	1.310008	1.351312	1.393034	.385640
1.05	1.194149	1.233671	1.274114	1.315328	1.357149	1.399403	.390138
1.06	1.198073	1.238058	1.278985	1.320702	1.363043	1.405833	.394661
1.07	1.202043	1.242493	1.283906	1.326130	1.368994	1.412323	.399207
1.08	1.206057	1.246976	1.288879	1.331611	1.375003	1.418875	.403778
1.09	1.210118	1.251507	1.293903	1.337147	1.381070	1.425489	.408374
1.10	1.214225	1.256087	1.298978	1.342738	1.387195	1.432164	.412994
1.11	1.218378	1.260717	1.304105	1.348384	1.393379	1.438902	.417640
1.12	1.222578	1.265395	1.309285	1.354086	1.399622	1.445704	.422312
1.13	1.226824	1.270123	1.314517	1.359844	1.405924	1.452568	.427009
1.14	1.231118	1.274901	1.319802	1.365658	1.412287	1.459497	.431733
1.15	1.235459	1.279729	1.325141	1.371528	1.418709	1.466489	.436483
1.16	1.239848	1.284608	1.330533	1.377456	1.425193	1.473547	.441260
1.17	1.244284	1.289537	1.335979	1.383441	1.431737	1.480669	.446064
1.18	1.248769	1.294517	1.341479	1.389484	1.438343	1.487857	.450896
1.19	1.253302	1.299549	1.347034	1.395584	1.445011	1.495112	.455755
1.20	1.257884	1.304633	1.352644	1.401744	1.451742	1.502433	.460643
1.21	1.262515	1.309768	1.358309	1.407962	1.458535	1.509820	.465558
1.22	1.267196	1.314956	1.364029	1.414239	1.465392	1.517276	.470503
1.23	1.271926	1.320196	1.369806	1.420577	1.472312	1.524799	.475476
1.24	1.276705	1.325490	1.375639	1.426974	1.479296	1.532391	.480479
1.25	1.281535	1.330836	1.381529	1.433432	1.486345	1.540051	.485511
1.26	1.286416	1.336237	1.387476	1.439950	1.493459	1.547781	.490573
1.27	1.291347	1.341691	1.393480	1.446530	1.500638	1.555581	.495666
1.28	1.296329	1.347200	1.399542	1.453172	1.507883	1.563452	.500789
1.29	1.301363	1.352763	1.405662	1.459876	1.515194	1.571393	.505943
1.30	1.306448	1.358381	1.411841	1.466642	1.522573	1.579406	.511128
1.31	1.311585	1.364054	1.418079	1.473471	1.530018	1.587491	.516345
1.32	1.316775	1.369784	1.424377	1.480364	1.537532	1.595648	.521593
1.33	1.322017	1.375569	1.430734	1.487320	1.545113	1.603878	.526874
1.34	1.327313	1.381411	1.437151	1.494341	1.552764	1.612182	.532188
1.35	1.332661	1.387309	1.443629	1.501427	1.560483	1.620559	.537535
1.36	1.338063	1.393264	1.450168	1.508577	1.568272	1.629012	.542914
1.37	1.343520	1.399277	1.456768	1.515794	1.576132	1.637539	.548328
1.38	1.349030	1.405348	1.463430	1.523076	1.584062	1.646142	.553775
1.39	1.354595	1.411478	1.470154	1.530425	1.592064	1.654822	.559257
1.40	1.360215	1.417665	1.476941	1.537841	1.600137	1.663578	.564774
1.41	1.365891	1.423912	1.483791	1.545324	1.608282	1.672411	.570325
1.42	1.371622	1.430218	1.490704	1.552875	1.616500	1.681323	.575912
1.43	1.377409	1.436584	1.497681	1.560495	1.624791	1.690313	.581535
1.44	1.383253	1.443011	1.504723	1.568184	1.633157	1.699382	.587194
1.45	1.389153	1.449497	1.511830	1.575942	1.641596	1.708530	.592889
1.46	1.395111	1.456045	1.519001	1.583769	1.650111	1.717759	.598621
1.47	1.401126	1.462655	1.526239	1.591668	1.658700	1.727069	.604391
1.48	1.407199	1.469326	1.533542	1.599637	1.667366	1.736460	.610198
1.49	1.413330	1.476059	1.540913	1.607677	1.676108	1.745934	.616043
1.50	1.419520	1.482855	1.548350	1.615790	1.684928	1.755490	.621927

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$S(y)$
1.50	1.419520	1.482855	1.548350	1.615790	1.684928	1.755490	.621927
1.51	1.425768	1.489714	1.555855	1.623975	1.693825	1.765129	.627849
1.52	1.432077	1.496637	1.563428	1.632232	1.702800	1.774852	.633810
1.53	1.438445	1.503623	1.571069	1.640563	1.711854	1.784660	.639811
1.54	1.444873	1.510674	1.578779	1.648969	1.720988	1.794553	.645852
1.55	1.451362	1.517790	1.586559	1.657448	1.730202	1.804532	.651934
1.56	1.457912	1.524971	1.594409	1.666003	1.739496	1.814598	.658056
1.57	1.464523	1.532218	1.602329	1.674633	1.748871	1.824750	.664219
1.58	1.471196	1.539531	1.610321	1.683340	1.758328	1.834990	.670423
1.59	1.477932	1.546911	1.618383	1.692123	1.767867	1.845319	.676670
1.60	1.484730	1.554358	1.626518	1.700984	1.777490	1.855737	.682959
1.61	1.491591	1.561872	1.634725	1.709922	1.787196	1.866245	.689291
1.62	1.498516	1.569455	1.643005	1.718939	1.796986	1.876843	.695666
1.63	1.505505	1.577106	1.651359	1.728035	1.806861	1.887532	.702084
1.64	1.512558	1.584826	1.659787	1.737210	1.816821	1.898314	.708547
1.65	1.519676	1.592615	1.668290	1.746465	1.826868	1.909187	.715054
1.66	1.526859	1.600475	1.676867	1.755801	1.837002	1.920155	.721606
1.67	1.534108	1.608405	1.685520	1.765219	1.847223	1.931216	.728203
1.68	1.541423	1.616406	1.694250	1.774719	1.857532	1.942372	.734846
1.69	1.548805	1.624479	1.703056	1.784301	1.867930	1.953623	.741536
1.70	1.556254	1.632623	1.711940	1.793966	1.878417	1.964971	.748271
1.71	1.563771	1.640840	1.720902	1.803715	1.888995	1.976415	.755054
1.72	1.571355	1.649130	1.729942	1.813548	1.899663	1.987958	.761885
1.73	1.579009	1.657494	1.739061	1.823467	1.910423	1.999598	.768763
1.74	1.586731	1.665932	1.748260	1.833471	1.921275	2.011338	.775690
1.75	1.594522	1.674444	1.757539	1.843561	1.932220	2.023178	.782666
1.76	1.602384	1.683032	1.766899	1.853739	1.943258	2.035119	.789692
1.77	1.610316	1.691695	1.776340	1.864004	1.954391	2.047161	.796766
1.78	1.618320	1.700435	1.785863	1.874357	1.965619	2.059306	.803892
1.79	1.626394	1.709251	1.795469	1.884800	1.976943	2.071553	.811068
1.80	1.634541	1.718145	1.805159	1.895332	1.988364	2.083905	.818296
1.81	1.642761	1.727117	1.814932	1.905954	1.999881	2.096362	.825575
1.82	1.651053	1.736167	1.824790	1.916668	2.011497	2.108924	.832906
1.83	1.659419	1.745297	1.834732	1.927473	2.023211	2.121592	.840290
1.84	1.667859	1.754506	1.844761	1.938370	2.035025	2.134368	.847728
1.85	1.676374	1.763795	1.854876	1.949361	2.046940	2.147251	.855219
1.86	1.684963	1.773166	1.865078	1.960445	2.058955	2.160244	.862764
1.87	1.693629	1.782617	1.875368	1.971624	2.071072	2.173346	.870364
1.88	1.702371	1.792151	1.885746	1.982898	2.083292	2.186560	.878019
1.89	1.711190	1.801767	1.896213	1.994268	2.095616	2.199884	.885730
1.90	1.720086	1.811467	1.906770	2.005735	2.108043	2.213321	.893498
1.91	1.729060	1.821251	1.917417	2.017299	2.120576	2.226872	.901322
1.92	1.738112	1.831119	1.928156	2.028962	2.133215	2.240536	.909203
1.93	1.747244	1.841072	1.938986	2.040723	2.145960	2.254316	.917143
1.94	1.756455	1.851111	1.949909	2.052584	2.158813	2.268211	.925140
1.95	1.765747	1.861237	1.960924	2.064546	2.171775	2.282224	.933197
1.96	1.775120	1.871450	1.972034	2.076609	2.184846	2.296354	.941313
1.97	1.784574	1.881750	1.983239	2.088774	2.198027	2.310603	.949489
1.98	1.794110	1.892139	1.994538	2.101042	2.211318	2.324972	.957726
1.99	1.803728	1.902617	2.005934	2.113414	2.224722	2.339462	.966023
2.00	1.813430	1.913184	2.017427	2.125890	2.238239	2.354073	.974383

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$\mathcal{S}(y)$
2.00	1.813430	1.913184	2.017427	2.125890	2.238239	2.354073	.974383
2.01	1.823216	1.923842	2.029017	2.138471	2.251869	2.368807	.982804
2.02	1.833087	1.934591	2.040705	2.151159	2.265614	2.383665	.991289
2.03	1.843042	1.945432	2.052492	2.163953	2.279474	2.398647	.999837
2.04	1.853083	1.956366	2.064380	2.176855	2.293450	2.413755	1.008449
2.05	1.863211	1.967392	2.076367	2.189866	2.307544	2.428989	1.017125
2.06	1.873426	1.978513	2.088457	2.202986	2.321756	2.444351	1.025867
2.07	1.883729	1.989728	2.100648	2.216217	2.336087	2.459841	1.034674
2.08	1.894120	2.001039	2.112942	2.229558	2.350538	2.475462	1.043548
2.09	1.904600	2.012445	2.125340	2.243012	2.365110	2.491213	1.052489
2.10	1.915170	2.023949	2.137843	2.256579	2.379805	2.507095	1.061497
2.11	1.925830	2.035550	2.150451	2.270259	2.394622	2.523111	1.070573
2.12	1.936582	2.047249	2.163165	2.284054	2.409563	2.539260	1.079718
2.13	1.947425	2.059047	2.175986	2.297965	2.424629	2.555545	1.088933
2.14	1.958360	2.070946	2.188915	2.311993	2.439822	2.571965	1.098218
2.15	1.969389	2.082944	2.201952	2.326138	2.455141	2.588523	1.107573
2.16	1.980512	2.095044	2.215100	2.340401	2.470588	2.605219	1.117000
2.17	1.991730	2.107247	2.228357	2.354783	2.486164	2.622054	1.126498
2.18	2.003042	2.119552	2.241726	2.369286	2.501870	2.639030	1.136070
2.19	2.014451	2.131961	2.255207	2.383910	2.517707	2.656148	1.145714
2.20	2.025957	2.144475	2.268801	2.398657	2.533676	2.673408	1.155432
2.21	2.037560	2.157094	2.282508	2.413526	2.549779	2.690813	1.165226
2.22	2.049262	2.169819	2.296331	2.428520	2.566016	2.708362	1.175094
2.23	2.061062	2.182651	2.310269	2.443639	2.582388	2.726058	1.185038
2.24	2.072963	2.195591	2.324324	2.458883	2.598896	2.743901	1.195059
2.25	2.084964	2.208640	2.338497	2.474255	2.615542	2.761893	1.205157
2.26	2.097066	2.221798	2.352788	2.489756	2.632327	2.780035	1.215334
2.27	2.109271	2.235066	2.367198	2.505385	2.649252	2.798328	1.225588
2.28	2.121578	2.248446	2.381728	2.521145	2.666317	2.816774	1.235923
2.29	2.133989	2.261938	2.396380	2.537035	2.683524	2.835373	1.246337
2.30	2.146505	2.275543	2.411155	2.553058	2.700875	2.854127	1.256833
2.31	2.159126	2.289262	2.426052	2.569215	2.718370	2.873037	1.267410
2.32	2.171854	2.303096	2.441074	2.585506	2.736010	2.892105	1.278069
2.33	2.184688	2.317045	2.456220	2.601932	2.753798	2.911331	1.288811
2.34	2.197630	2.331112	2.471493	2.618496	2.771733	2.930717	1.299638
2.35	2.210681	2.345295	2.486894	2.635196	2.789817	2.950265	1.310548
2.36	2.223841	2.359597	2.502422	2.652036	2.808051	2.969975	1.321544
2.37	2.237112	2.374019	2.518080	2.669016	2.826437	2.989850	1.332626
2.38	2.250494	2.388560	2.533868	2.686136	2.844976	3.009889	1.343795
2.39	2.263988	2.403224	2.549787	2.703399	2.863668	3.030096	1.355052
2.40	2.277596	2.418009	2.565839	2.720805	2.882516	3.050470	1.366397
2.41	2.291317	2.432917	2.582024	2.738356	2.901521	3.071014	1.377831
2.42	2.305152	2.447950	2.598343	2.756052	2.920683	3.091728	1.389355
2.43	2.319104	2.463108	2.614798	2.773896	2.940004	3.112615	1.400969
2.44	2.333172	2.478392	2.631390	2.791887	2.959486	3.133676	1.412676
2.45	2.347358	2.493804	2.648120	2.810028	2.979130	3.154911	1.424474
2.46	2.361662	2.509343	2.664988	2.828319	2.998936	3.176324	1.436366
2.47	2.376085	2.525012	2.681997	2.846761	3.018907	3.197914	1.448352
2.48	2.390629	2.540811	2.699146	2.865357	3.039043	3.219683	1.460433
2.49	2.405294	2.556742	2.716438	2.884107	3.059347	3.241634	1.472610
2.50	2.420082	2.572804	2.733873	2.903012	3.079819	3.263767	1.484883

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$S(y)$
2.50	2.420082	2.572804	2.733873	2.903012	3.079819	3.263767	1.484883
2.51	2.434992	2.589001	2.751453	2.922074	3.100461	3.286084	1.497254
2.52	2.450027	2.605331	2.769179	2.941294	3.121274	3.308586	1.509723
2.53	2.465187	2.621797	2.787051	2.960673	3.142260	3.331276	1.522291
2.54	2.480473	2.638400	2.805072	2.980213	3.163419	3.354154	1.534959
2.55	2.495887	2.655141	2.823241	2.999915	3.184755	3.377222	1.547728
2.56	2.511428	2.672021	2.841562	3.019780	3.206267	3.400482	1.560599
2.57	2.527099	2.689040	2.860034	3.039809	3.227957	3.423935	1.573572
2.58	2.542900	2.706201	2.878659	3.060004	3.249828	3.447583	1.586650
2.59	2.558832	2.723503	2.897438	3.080367	3.271879	3.471428	1.599831
2.60	2.574897	2.740950	2.916373	3.100898	3.294114	3.495471	1.613119
2.61	2.591095	2.758540	2.935464	3.121599	3.316533	3.519713	1.626512
2.62	2.607428	2.776277	2.954714	3.142471	3.339137	3.544157	1.640014
2.63	2.623896	2.794160	2.974123	3.163516	3.361930	3.568805	1.653623
2.64	2.640500	2.812192	2.993692	3.184736	3.384911	3.593657	1.667342
2.65	2.657243	2.830373	3.013423	3.206131	3.408082	3.618715	1.681171
2.66	2.674124	2.848704	3.033318	3.227703	3.431446	3.643982	1.695111
2.67	3.691146	2.867187	3.053377	3.249453	3.455003	3.669459	1.709163
2.68	2.708308	2.885823	3.073602	3.271384	3.478756	3.695148	1.723328
2.69	2.725612	2.904613	3.093994	3.293496	3.502705	3.721050	1.737608
2.70	2.743060	2.923558	3.114555	3.315791	3.526853	3.747167	1.752003
2.71	2.760653	2.942660	3.135285	3.338271	3.551202	3.773502	1.766514
2.72	2.778391	2.961921	3.156188	3.360937	3.575752	3.800056	1.781142
2.73	2.796276	2.981340	3.177263	3.383790	3.600505	3.826830	1.795889
2.74	2.814309	3.000920	3.198512	3.406832	3.625464	3.853827	1.810755
2.75	2.832492	3.020662	3.219937	3.430065	3.650630	3.881048	1.825741
2.76	2.850824	3.040567	3.241539	3.453490	3.676004	3.908496	1.840849
2.77	2.869309	3.060636	3.263319	3.477109	3.701589	3.936172	1.856079
2.78	2.887946	3.080872	3.285280	3.500923	3.727386	3.964078	1.871433
2.79	2.906738	3.101275	3.307422	3.524935	3.753397	3.992216	1.886911
2.80	2.925685	3.121846	3.329747	3.549135	3.779624	4.020589	1.902515
2.81	2.944789	3.142587	3.352256	3.573555	3.806068	4.049197	1.918247
2.82	2.964050	3.163500	3.374952	3.598168	3.832731	4.078043	1.934106
2.83	2.983471	3.184585	3.397835	3.622984	3.859616	4.107129	1.950094
2.84	3.003053	3.205844	3.420907	3.648006	3.886723	4.136458	1.966212
2.85	3.022796	3.227279	3.444170	3.673234	3.914055	4.166030	1.982462
2.86	3.042702	3.248892	3.467625	3.698671	3.941615	4.195848	1.998845
2.87	3.062773	3.270682	3.491274	3.724319	3.969402	4.225915	2.015361
2.88	3.083010	3.292653	3.515118	3.750179	3.997420	4.256232	2.032012
2.89	3.103414	3.314805	3.539160	3.776254	4.025671	4.286801	2.048799
2.90	3.123987	3.337140	3.563400	3.802544	4.054156	4.317625	2.065723
2.91	3.144729	3.359659	3.587840	3.829051	4.082878	4.348705	2.082786
2.92	3.165643	3.382365	3.612482	3.855778	4.111838	4.380044	2.099989
2.93	3.186729	3.405258	3.637328	3.882726	4.141038	4.411644	2.117333
2.94	3.207990	3.428340	3.662380	3.909898	4.170481	4.443508	2.134818
2.95	3.229426	3.451612	3.687638	3.937294	4.200168	4.475636	2.152448
2.96	3.251039	3.475077	3.713105	3.964917	4.230101	4.508033	2.170222
2.97	3.272831	3.498735	3.738783	3.992769	4.260283	4.540699	2.188142
2.98	3.294803	3.522589	3.764673	4.020852	4.290716	4.573637	2.206209
2.99	3.316956	3.546640	3.790777	4.049167	4.321401	4.606850	2.224425
3.00	3.339292	3.570890	3.817096	4.077717	4.352341	4.640340	2.242790

Table of  $\Omega(y, \varphi)$  and  $\delta(y)$ 

$y \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$\delta(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	1.001657	1.001972	1.002279	1.002579	1.002869	1.003151	.003353
.02	1.003350	1.003980	1.004596	1.005196	1.005779	1.006343	.006667
.03	1.005079	1.006025	1.006950	1.007852	1.008729	1.009577	.010001
.04	1.006843	1.008107	1.009343	1.010548	1.011719	1.012852	.013335
.05	1.008643	1.010225	1.011773	1.013282	1.014749	1.016170	.016671
.06	1.010480	1.012381	1.014242	1.016056	1.017820	1.019530	.020007
.07	1.012352	1.014574	1.016748	1.018870	1.020932	1.022932	.023345
.08	1.014261	1.016804	1.019293	1.021723	1.024086	1.026376	.026684
.09	1.016206	1.019071	1.021877	1.024616	1.027280	1.029864	.030024
.10	1.018187	1.021376	1.024500	1.027550	1.030517	1.033394	.033367
.11	1.020205	1.023719	1.027161	1.030523	1.033795	1.036968	.036711
.12	1.022260	1.026099	1.029862	1.033537	1.037115	1.040585	.040058
.13	1.024352	1.028518	1.032602	1.036592	1.040477	1.044247	.043407
.14	1.026480	1.030974	1.035382	1.039688	1.043881	1.047952	.046758
.15	1.028646	1.033470	1.038201	1.042825	1.047328	1.051701	.050113
.16	1.030849	1.036003	1.041060	1.046003	1.050819	1.055495	.053470
.17	1.033089	1.038575	1.043958	1.049222	1.054352	1.059334	.056831
.18	1.035367	1.041186	1.046897	1.052483	1.057928	1.063218	.060195
.19	1.037683	1.043856	1.049877	1.055787	1.061548	1.067147	.063582
.20	1.040036	1.046525	1.052897	1.059132	1.065212	1.071121	.066934
.21	1.042427	1.049253	1.055958	1.062520	1.068920	1.075142	.070309
.22	1.044857	1.052021	1.059059	1.065950	1.072672	1.079208	.073689
.23	1.047324	1.054828	1.062202	1.069423	1.076468	1.083321	.077073
.24	1.049830	1.057675	1.065386	1.072938	1.080310	1.087480	.080462
.25	1.052375	1.060562	1.068612	1.076498	1.084196	1.091686	.083855
.26	1.054958	1.063489	1.071879	1.080100	1.088127	1.095940	.087254
.27	1.057580	1.066457	1.075189	1.083746	1.092105	1.100240	.090658
.28	1.060242	1.069465	1.078540	1.087437	1.096127	1.104589	.094067
.29	1.062942	1.072514	1.081934	1.091171	1.100198	1.108985	.097482
.30	1.065682	1.075604	1.085370	1.094949	1.104311	1.113430	.100903
.31	1.068461	1.078734	1.088850	1.098773	1.108473	1.117924	.104330
.32	1.071280	1.081906	1.092372	1.102641	1.112682	1.122466	.107763
.33	1.074139	1.085120	1.095937	1.106554	1.116937	1.127057	.111203
.34	1.077038	1.088375	1.099546	1.110513	1.121240	1.131698	.114649
.35	1.079977	1.091672	1.103199	1.114517	1.125591	1.136389	.118102
.36	1.082957	1.095012	1.106896	1.116567	1.129990	1.141130	.121562
.37	1.085977	1.098393	1.110636	1.122664	1.134437	1.145921	.125030
.38	1.089038	1.101817	1.114422	1.126806	1.138932	1.150763	.128505
.39	1.092140	1.105284	1.118261	1.130996	1.143476	1.155656	.131988
.40	1.095283	1.108794	1.122126	1.135232	1.148070	1.160601	.135479
.41	1.098468	1.112347	1.126046	1.139516	1.152713	1.165597	.138978
.42	1.101694	1.116943	1.130011	1.143847	1.157406	1.170645	.142485
.43	1.104961	1.119583	1.134022	1.148226	1.162148	1.175746	.146001
.44	1.108271	1.123267	1.138079	1.152653	1.166941	1.180899	.149526
.45	1.111623	1.126995	1.142181	1.157128	1.171784	1.186106	.153060
.46	1.115018	1.130767	1.146331	1.161662	1.176679	1.191366	.156602
.47	1.118455	1.134584	1.150527	1.166224	1.181624	1.196679	.160155
.48	1.121934	1.138446	1.154770	1.170846	1.186622	1.202047	.163717
.49	1.125457	1.142352	1.159060	1.175518	1.191671	1.207469	.167289
.50	1.129023	1.146304	1.163397	1.180239	1.196773	1.212946	.170871

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

$y \backslash \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$S(y)$
.50	1.129023	1.146304	1.163397	1.180239	1.196773	1.212946	.170871
.51	1.132633	1.150302	1.167782	1.185011	1.201927	1.218478	.174463
.52	1.136286	1.154345	1.172216	1.189832	1.207134	1.224066	.178066
.53	1.139983	1.158434	1.176697	1.194705	1.212395	1.229709	.181679
.54	1.143724	1.162570	1.181228	1.199629	1.217709	1.235409	.185304
.55	1.147510	1.166752	1.185807	1.204604	1.223077	1.241166	.188939
.56	1.151340	1.170981	1.190435	1.209630	1.228499	1.246980	.192586
.57	1.155215	1.175257	1.195113	1.214709	1.233976	1.252851	.196245
.58	1.159135	1.179580	1.199841	1.219840	1.239508	1.258780	.199916
.59	1.163101	1.183951	1.204618	1.225024	1.245096	1.264767	.203598
.60	1.167112	1.188370	1.209446	1.230261	1.250739	1.270813	.207293
.61	1.171169	1.192837	1.214325	1.235551	1.256438	1.276918	.211001
.62	1.175272	1.197353	1.219255	1.240895	1.262194	1.283082	.214721
.63	1.179421	1.201917	1.224236	1.246293	1.268007	1.289306	.218454
.64	1.183617	1.206530	1.229269	1.251745	1.273877	1.295591	.222200
.65	1.187860	1.211193	1.234353	1.257252	1.279805	1.301936	.225960
.66	1.192150	1.215905	1.239490	1.262814	1.285791	1.308343	.229733
.67	1.196487	1.220667	1.244680	1.268431	1.291835	1.314810	.233521
.68	1.200872	1.225480	1.249922	1.274105	1.297938	1.321340	.237322
.69	1.205305	1.230343	1.255218	1.279834	1.304100	1.327932	.241138
.70	1.209786	1.235256	1.260567	1.285620	1.310322	1.334588	.244969
.71	1.214316	1.240221	1.265971	1.291464	1.316605	1.341306	.248814
.72	1.218895	1.245238	1.271428	1.297364	1.322947	1.348088	.252674
.73	1.223522	1.250306	1.276941	1.303322	1.329351	1.354935	.256550
.74	1.228199	1.255426	1.282508	1.309338	1.335815	1.361846	.260441
.75	1.232926	1.260599	1.288131	1.315413	1.342342	1.368822	.264348
.76	1.237702	1.265824	1.293809	1.321546	1.348930	1.375864	.268271
.77	1.242529	1.271103	1.299544	1.327739	1.355582	1.382971	.272210
.78	1.247406	1.276434	1.305335	1.333992	1.362296	1.390146	.276166
.79	1.252334	1.281820	1.311183	1.340304	1.369074	1.397387	.280139
.80	1.257314	1.287260	1.317088	1.346678	1.375916	1.404696	.284128
.81	1.262345	1.292754	1.323050	1.353112	1.382822	1.412073	.288135
.82	1.267427	1.298303	1.329071	1.359607	1.389793	1.419518	.292159
.83	1.272562	1.303907	1.335150	1.366164	1.396829	1.427033	.296201
.84	1.277749	1.309567	1.341288	1.372783	1.403931	1.434517	.300261
.85	1.282989	1.315282	1.347485	1.379465	1.411100	1.442271	.304340
.86	1.288282	1.321054	1.353741	1.386210	1.418335	1.449995	.308436
.87	1.293629	1.326882	1.360057	1.393019	1.425637	1.457791	.312552
.88	1.299029	1.332767	1.366434	1.399891	1.433007	1.465658	.316686
.89	1.304483	1.338710	1.372872	1.406828	1.440445	1.473597	.320840
.90	1.309992	1.344710	1.379370	1.413830	1.447952	1.481609	.325014
.91	1.315556	1.350769	1.385931	1.420897	1.455528	1.489694	.329207
.92	1.321174	1.356885	1.392553	1.428030	1.463174	1.497852	.333420
.93	1.326849	1.363061	1.399238	1.435229	1.470890	1.506085	.337653
.94	1.332579	1.369296	1.405986	1.442494	1.478676	1.514393	.341908
.95	1.338365	1.375591	1.412797	1.449827	1.486534	1.522776	.346183
.96	1.344208	1.381946	1.419671	1.457228	1.494464	1.531235	.350479
.97	1.350108	1.388361	1.426610	1.464697	1.502465	1.539771	.354796
.98	1.356065	1.394837	1.433614	1.472234	1.510540	1.548384	.359135
.99	1.362080	1.401374	1.440683	1.479840	1.518688	1.557074	.363496
1.00	1.368153	1.407974	1.447817	1.487516	1.526910	1.565843	.367879

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

$y \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$S(y)$
1.00	1.368153	1.407974	1.447817	1.487516	1.526910	1.565843	.367879
1.01	1.374284	1.414635	1.455018	1.495263	1.535206	1.574691	.372285
1.02	1.380475	1.421359	1.462284	1.503080	1.543577	1.583618	.376714
1.03	1.386724	1.428146	1.469618	1.510968	1.552024	1.592625	.381165
1.04	1.393034	1.434996	1.477020	1.518927	1.560546	1.601713	.385640
1.05	1.399403	1.441910	1.484489	1.526959	1.569146	1.610882	.390138
1.06	1.405833	1.448888	1.492027	1.535064	1.577823	1.620133	.394661
1.07	1.412323	1.455932	1.499633	1.543242	1.586577	1.629466	.399207
1.08	1.418875	1.463040	1.507309	1.551494	1.595410	1.638883	.403778
1.09	1.425489	1.470214	1.515055	1.559820	1.604322	1.648384	.408374
1.10	1.432164	1.477455	1.522872	1.568221	1.613314	1.657969	.412994
1.11	1.438902	1.484761	1.530759	1.576697	1.622385	1.667639	.417640
1.12	1.445704	1.492135	1.538717	1.585250	1.631538	1.677395	.422312
1.13	1.452568	1.499577	1.546748	1.593879	1.640772	1.687237	.427009
1.14	1.459497	1.507086	1.554851	1.602585	1.650088	1.697166	.431733
1.15	1.466489	1.514665	1.563027	1.611369	1.659487	1.707184	.436483
1.16	1.473547	1.522312	1.571277	1.620232	1.668969	1.717289	.441260
1.17	1.480669	1.530028	1.579601	1.629173	1.678535	1.727484	.446064
1.18	1.487857	1.537815	1.587999	1.638193	1.688185	1.737769	.450896
1.19	1.495112	1.545672	1.596472	1.647294	1.697921	1.748144	.455755
1.20	1.502433	1.553600	1.605022	1.656476	1.707742	1.758610	.460643
1.21	1.509820	1.561599	1.613647	1.665738	1.717650	1.769169	.465558
1.22	1.517276	1.569671	1.622349	1.675083	1.727646	1.779820	.470503
1.23	1.524799	1.577815	1.631129	1.684510	1.737729	1.790565	.475476
1.24	1.532391	1.586032	1.639987	1.694020	1.747901	1.801403	.480479
1.25	1.540051	1.594323	1.648923	1.703615	1.758162	1.812337	.485511
1.26	1.547781	1.602688	1.657939	1.713293	1.768513	1.823366	.490573
1.27	1.555581	1.611127	1.667034	1.723057	1.778954	1.834492	.495666
1.28	1.563452	1.619642	1.676209	1.732906	1.789487	1.845714	.500789
1.29	1.571393	1.628233	1.685466	1.742842	1.800112	1.857035	.505943
1.30	1.579406	1.636900	1.694804	1.752865	1.810830	1.868454	.511128
1.31	1.587491	1.645644	1.704224	1.762975	1.821641	1.879973	.516345
1.32	1.595648	1.654465	1.713727	1.773174	1.832546	1.891592	.521593
1.33	1.603878	1.663365	1.723314	1.783462	1.843547	1.903313	.526874
1.34	1.612182	1.672343	1.732984	1.793839	1.854643	1.915135	.532188
1.35	1.620559	1.681400	1.742739	1.804308	1.865835	1.927059	.537535
1.36	1.629012	1.690537	1.752580	1.814867	1.877125	1.939088	.542914
1.37	1.637539	1.699754	1.762506	1.825518	1.888512	1.951220	.548328
1.38	1.646142	1.709053	1.772519	1.836261	1.899999	1.963458	.553775
1.39	1.654822	1.718433	1.782620	1.847098	1.911585	1.975802	.559257
1.40	1.663578	1.727895	1.792808	1.858029	1.923271	1.988252	.564774
1.41	1.672411	1.737440	1.803085	1.869055	1.935058	2.000811	.570325
1.42	1.681323	1.747069	1.813451	1.880176	1.946948	2.013477	.575912
1.43	1.690313	1.756782	1.823908	1.891393	1.958940	2.026254	.581535
1.44	1.699382	1.766579	1.834455	1.902707	1.971035	2.039140	.587194
1.45	1.708530	1.776462	1.845093	1.914119	1.983235	2.052138	.592889
1.46	1.717759	1.786430	1.855823	1.925630	1.995540	2.065248	.598621
1.47	1.727069	1.796486	1.866647	1.937240	2.007951	2.078471	.604391
1.48	1.736460	1.806628	1.877563	1.948949	2.020469	2.091808	.610198
1.49	1.745934	1.816859	1.888574	1.960760	2.033094	2.105260	.616043
1.50	1.755490	1.827178	1.899680	1.972672	2.045828	2.118828	.621927

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

$y \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$\mathcal{S}(y)$
1.50	1.755490	1.827178	1.899680	1.972672	2.045828	2.118828	.621927
1.51	1.765129	1.837587	1.910882	1.984687	2.058672	2.132512	.627849
1.52	1.774852	1.848086	1.922180	1.996805	2.071626	2.146314	.633810
1.53	1.784660	1.858675	1.933575	2.009027	2.084691	2.160234	.639811
1.54	1.794553	1.869356	1.945069	2.021353	2.097868	2.174274	.645852
1.55	1.804532	1.880129	1.956661	2.033786	2.111158	2.188435	.651934
1.56	1.814598	1.890994	1.968352	2.046325	2.124562	2.202717	.658056
1.57	1.824750	1.901953	1.980144	2.058971	2.138081	2.217122	.664219
1.58	1.834990	1.913007	1.992036	2.071726	2.151716	2.231650	.670423
1.59	1.845319	1.924155	2.004031	2.084589	2.165467	2.246303	.676670
1.60	1.855737	1.935399	2.016128	2.097563	2.179336	2.261082	.682959
1.61	1.866245	1.946740	2.028329	2.110648	2.193323	2.275987	.689291
1.62	1.876843	1.958177	2.040634	2.123844	2.207430	2.291019	.695666
1.63	1.887532	1.969713	2.053044	2.137153	2.221658	2.306180	.702084
1.64	1.898314	1.981347	2.065560	2.150575	2.236007	2.321471	.708547
1.65	1.909187	1.993081	2.078183	2.164112	2.250478	2.336893	.715054
1.66	1.920155	2.004915	2.090913	2.177764	2.265073	2.352447	.721606
1.67	1.931216	2.016850	2.103752	2.191532	2.279792	2.368133	.728203
1.68	1.942372	2.028887	2.116700	2.205418	2.294637	2.383954	.734846
1.69	1.953623	2.041026	2.129758	2.219422	2.309608	2.399909	.741536
1.70	1.964971	2.053269	2.142928	2.233544	2.324706	2.416001	.748271
1.71	1.976415	2.065616	2.156209	2.247787	2.339934	2.432231	.755054
1.72	1.987958	2.078068	2.169603	2.262151	2.355290	2.448598	.761885
1.73	1.999598	2.090626	2.183111	2.276637	2.370778	2.465106	.768763
1.74	2.011338	2.103291	2.196733	2.291246	2.386397	2.481754	.775690
1.75	2.023178	2.116063	2.210471	2.305979	2.402149	2.498544	.782666
1.76	2.035119	2.128944	2.224326	2.320836	2.418035	2.515477	.789691
1.77	2.047161	2.141934	2.238298	2.335820	2.434055	2.532555	.796766
1.78	2.059306	2.155033	2.252388	2.350931	2.450212	2.549778	.803892
1.79	2.071553	2.168244	2.266597	2.366170	2.466506	2.567148	.811068
1.80	2.083905	2.181567	2.280927	2.381538	2.482939	2.584666	.818296
1.81	2.096362	2.195003	2.295378	2.397036	2.499511	2.602333	.825575
1.82	2.108924	2.208552	2.309951	2.412665	2.516223	2.620150	.832906
1.83	2.121592	2.222215	2.324647	2.428426	2.533077	2.638119	.840290
1.84	2.134368	2.235995	2.339467	2.444321	2.550074	2.656241	.847728
1.85	2.147251	2.249890	2.354413	2.460350	2.567216	2.674517	.855219
1.86	2.160244	2.263903	2.369485	2.476515	2.584502	2.692949	.862764
1.87	2.173346	2.278034	2.384683	2.492816	2.601935	2.711537	.870364
1.88	2.186560	2.292284	2.400011	2.509255	2.619516	2.730283	.878019
1.89	2.199884	2.306654	2.415467	2.525833	2.637246	2.749189	.885730
1.90	2.213321	2.321146	2.431053	2.542551	2.655125	2.768256	.893498
1.91	2.226872	2.335759	2.446771	2.559410	2.673157	2.787484	.901322
1.92	2.240536	2.350495	2.462622	2.576411	2.691340	2.806876	.909203
1.93	2.254316	2.365356	2.478606	2.593556	2.709678	2.826433	.917143
1.94	2.268211	2.380341	2.494724	2.610845	2.728171	2.846156	.925140
1.95	2.282224	2.395453	2.510978	2.628281	2.746820	2.866047	.933197
1.96	2.296354	2.410691	2.527369	2.645863	2.765628	2.886106	.941313
1.97	2.310603	2.426058	2.543897	2.663593	2.784594	2.906336	.949489
1.98	2.324972	2.441554	2.560565	2.681473	2.803720	2.926737	.957726
1.99	2.339462	2.457179	2.577373	2.699504	2.823009	2.947312	.966023
2.00	2.354073	2.472936	2.594322	2.717686	2.842460	2.968062	.974383



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

$y \backslash \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$S(y)$
2.00	2.354073	2.472936	2.594322	2.717686	2.842460	2.968062	.974383
2.01	2.368807	2.488825	2.611413	2.736022	2.862076	2.988988	.982804
2.02	2.383665	2.504848	2.628648	2.754512	2.881858	3.010091	.991289
2.03	2.398647	2.521005	2.646028	2.773158	2.901807	3.031373	.999837
2.04	2.413755	2.537297	2.663554	2.791961	2.921924	3.052837	1.008449
2.05	2.428989	2.553726	2.681227	2.810922	2.942212	3.074482	1.017125
2.06	2.444351	2.570292	2.699048	2.830042	2.962670	3.096311	1.025867
2.07	2.459841	2.586998	2.717019	2.849324	2.983302	3.118325	1.034674
2.08	2.475462	2.603843	2.735140	2.868768	3.004108	3.140526	1.043548
2.09	2.491213	2.620829	2.753414	2.888375	3.025090	3.162916	1.052489
2.10	2.507095	2.637958	2.771841	2.908148	3.046249	3.185495	1.061497
2.11	2.523111	2.655230	2.790422	2.928087	3.067586	3.208266	1.070573
2.12	2.539260	2.672646	2.809159	2.948193	3.089104	3.231231	1.079718
2.13	2.555545	2.690208	2.828054	2.968469	3.110804	3.254390	1.088933
2.14	2.571965	2.707917	2.847106	2.988915	3.132686	3.277745	1.098218
2.15	2.588523	2.725774	2.866319	3.009533	3.154754	3.301299	1.107573
2.16	2.605219	2.743780	2.885692	3.030324	3.177008	3.325052	1.117000
2.17	2.622054	2.761937	2.905228	3.051290	3.199449	3.349007	1.126498
2.18	2.639030	2.780245	2.924927	3.072432	3.222080	3.373166	1.136070
2.19	2.656148	2.798707	2.944791	3.093752	3.244903	3.397529	1.145714
2.20	2.673408	2.817323	2.964822	3.115252	3.267917	3.422099	1.155432
2.21	2.690813	2.836094	2.985020	3.136932	3.291126	3.446877	1.165226
2.22	2.708362	2.855022	3.005388	3.158794	3.314531	3.471866	1.175094
2.23	2.726058	2.874108	3.025926	3.180840	3.338134	3.497066	1.185038
2.24	2.743901	2.893354	3.046636	3.203071	3.361936	3.522480	1.195059
2.25	2.761893	2.912760	3.067520	3.225489	3.385939	3.548110	1.205167
2.26	2.780035	2.932328	3.088578	3.248095	3.410144	3.573958	1.215334
2.27	2.798328	2.952060	3.109812	3.270892	3.434553	3.600024	1.225588
2.28	2.816774	2.971956	3.131225	3.293879	3.459169	3.626312	1.235923
2.29	2.835373	2.992018	3.152816	3.317060	3.483992	3.652823	1.246337
2.30	2.854127	3.012247	3.174589	3.340436	3.509025	3.679558	1.256833
2.31	2.873037	3.032646	3.196543	3.364008	3.534270	3.706521	1.267410
2.32	2.892105	3.053214	3.218681	3.387779	3.559727	3.733712	1.278069
2.33	2.911331	3.073954	3.241005	3.411748	3.585399	3.761135	1.288811
2.34	2.930717	3.094868	3.263515	3.435920	3.611288	3.788789	1.299638
2.35	2.950265	3.115955	3.286213	3.460294	3.637396	3.816679	1.310548
2.36	2.969975	3.137218	3.309102	3.484873	3.663724	3.844805	1.321544
2.37	2.989850	3.158659	3.332182	3.509659	3.690274	3.873170	1.332626
2.38	3.009889	3.180279	3.355455	3.534653	3.717048	3.901776	1.343795
2.39	3.030096	3.202078	3.378923	3.559857	3.744048	3.930624	1.355052
2.40	3.050470	3.224060	3.402587	3.585272	3.771277	3.959718	1.366397
2.41	3.071014	3.246225	3.426449	3.610901	3.798735	3.989058	1.377831
2.42	3.091728	3.268574	3.450511	3.636746	3.826425	4.018648	1.389355
2.43	3.112615	3.291110	3.474774	3.662808	3.854349	4.048488	1.400969
2.44	3.133676	3.313834	3.499240	3.689088	3.882509	4.078582	1.412676
2.45	3.154911	3.336747	3.523911	3.715590	3.910906	4.108932	1.424474
2.46	3.176324	3.359851	3.548788	3.742314	3.939543	4.139539	1.436366
2.47	3.197914	3.383148	3.573873	3.769263	3.968423	4.170407	1.448352
2.48	3.219683	3.406639	3.599168	3.796439	3.997546	4.201536	1.460433
2.49	3.241634	3.430328	3.624675	3.823842	4.026915	4.232930	1.472610
2.50	3.263767	3.454210	3.650396	3.851476	4.056533	4.264591	1.484883

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

$y$	0.5	0.6	0.7	0.8	0.9	1.0	$S(y)$
2.50	3.263767	3.454210	3.650396	3.851476	4.056533	4.264591	1.484883
2.51	3.286084	3.478294	3.676331	3.879343	4.086400	4.296520	1.497254
2.52	3.308586	3.502578	3.702484	3.907443	4.116520	4.328721	1.509723
2.53	3.331276	3.527064	3.728855	3.935780	4.146895	4.361196	1.522291
2.54	3.354154	3.551755	3.755447	3.964356	4.177526	4.393947	1.534959
2.55	3.377222	3.576652	3.782262	3.993171	4.208416	4.426975	1.547728
2.56	3.400482	3.601756	3.809301	4.022229	4.239567	4.460285	1.560599
2.57	3.423935	3.627069	3.836566	4.051531	4.270981	4.493878	1.573572
2.58	3.447583	3.652594	3.864060	4.081079	4.302662	4.527756	1.586650
2.59	3.471428	3.678331	3.891784	4.110876	4.334609	4.561923	1.599831
2.60	3.495471	3.704283	3.919740	4.140924	4.366827	4.596380	1.613119
2.61	3.519713	3.730451	3.947930	4.171224	4.399318	4.631130	1.626512
2.62	3.544157	3.756837	3.976356	4.201779	4.432083	4.666176	1.640014
2.63	3.568805	3.783444	4.005020	4.232592	4.465126	4.701519	1.653623
2.64	3.593657	3.810272	4.033924	4.263663	4.498448	4.737164	1.667342
2.65	3.618715	3.837324	4.063070	4.294996	4.532051	4.773111	1.681171
2.66	3.643982	3.864602	4.092460	4.326593	4.565940	4.809365	1.695111
2.67	3.669459	3.892107	4.122097	4.358456	4.600114	4.845927	1.709163
2.68	3.695148	3.919842	4.151981	4.390587	4.634578	4.882800	1.723328
2.69	3.721050	3.947808	4.182116	4.422988	4.669334	4.919988	1.737608
2.70	3.747167	3.976007	4.212504	4.455663	4.704384	4.957491	1.752003
2.71	3.773502	4.004442	4.243148	4.488612	4.739731	4.995315	1.766514
2.72	3.800056	4.033114	4.274045	4.521839	4.775377	5.033460	1.781142
2.73	3.826830	4.062025	4.305203	4.555345	4.811325	5.071930	1.795889
2.74	3.853827	4.091177	4.336622	4.589134	4.847577	5.110728	1.810755
2.75	3.881048	4.120573	4.368304	4.623208	4.884136	5.149856	1.825741
2.76	3.908496	4.150213	4.400252	4.657568	4.921005	5.189318	1.840849
2.77	3.936172	4.180102	4.432468	4.692218	4.958137	5.229116	1.856079
2.78	3.964078	4.210240	4.464953	4.727160	4.995683	5.269253	1.871433
2.79	3.992216	4.240629	4.497712	4.762397	5.033497	5.309732	1.886911
2.80	4.020589	4.271272	4.530745	4.797930	5.071632	5.350556	1.902515
2.81	4.049197	4.302171	4.564055	4.833764	5.110090	5.391729	1.918247
2.82	4.078043	4.333328	4.597644	4.869899	5.148873	5.433252	1.934106
2.83	4.107129	4.364746	4.631516	4.906339	5.187986	5.475130	1.950094
2.84	4.136458	4.396425	4.665671	4.943086	5.227431	5.517364	1.966212
2.85	4.166030	4.428370	4.700113	4.980143	5.267210	5.559960	1.982462
2.86	4.195848	4.460581	4.734845	5.017513	5.307326	5.602918	1.998845
2.87	4.225915	4.493062	4.769867	5.055198	5.347783	5.646243	2.015361
2.88	4.256232	4.525813	4.805184	5.093201	5.388583	5.689938	2.032012
2.89	4.286801	4.558839	4.840797	5.131525	5.429729	5.734006	2.048799
2.90	4.317625	4.592140	4.876710	5.170172	5.471224	5.778450	2.065723
2.91	4.348705	4.625720	4.912924	5.209146	5.513072	5.823273	2.082786
2.92	4.380044	4.659581	4.949442	5.248448	5.555275	5.868480	2.099989
2.93	4.411644	4.693725	4.986267	5.288083	5.597836	5.914072	2.117333
2.94	4.443508	4.728154	5.023401	5.328052	5.640759	5.960054	2.134818
2.95	4.475636	4.762872	5.060847	5.368358	5.684046	6.006429	2.152448
2.96	4.508033	4.797879	5.098608	5.409006	5.727701	6.053199	2.170222
2.97	4.540699	4.833180	5.136687	5.449996	5.771727	6.100370	2.188142
2.98	4.573637	4.868776	5.175085	5.491333	5.816127	6.147944	2.206209
2.99	4.606850	4.904670	5.213807	5.533020	5.860904	6.195925	2.224425
3.00	4.640340	4.940864	5.252854	5.575058	5.906062	6.244315	2.242790

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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$S(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	1.003151	1.003423	1.003684	1.003935	1.004176	1.004406	.003333
.02	1.006343	1.006888	1.007412	1.007916	1.008398	1.008860	.006667
.03	1.009577	1.010396	1.011185	1.011943	1.012669	1.013363	.010001
.04	1.012852	1.013948	1.015002	1.016016	1.016987	1.017916	.013335
.05	1.016170	1.017542	1.018865	1.020135	1.021353	1.022518	.016671
.06	1.019530	1.021181	1.022772	1.024301	1.025767	1.027170	.020007
.07	1.022932	1.024863	1.026725	1.028515	1.030231	1.031873	.023345
.08	1.026376	1.028590	1.030724	1.032775	1.034743	1.036626	.026684
.09	1.029864	1.032361	1.034769	1.037084	1.039305	1.041431	.030024
.10	1.033394	1.036177	1.038860	1.041440	1.043916	1.046286	.033367
.11	1.036968	1.040037	1.042997	1.045845	1.048577	1.051194	.036711
.12	1.040585	1.043943	1.047182	1.050298	1.053289	1.056153	.040058
.13	1.044247	1.047894	1.051413	1.054800	1.058051	1.061165	.043407
.14	1.047952	1.051891	1.055692	1.059351	1.062864	1.066230	.046758
.15	1.051701	1.055934	1.060019	1.063952	1.067728	1.071347	.050113
.16	1.055495	1.060023	1.064394	1.068602	1.072645	1.076519	.053470
.17	1.059334	1.064158	1.068817	1.073303	1.077613	1.081744	.056831
.18	1.063218	1.068341	1.073289	1.078054	1.082633	1.087023	.060195
.19	1.067147	1.072570	1.077809	1.082856	1.087706	1.092357	.063562
.20	1.071121	1.076847	1.082379	1.087709	1.092833	1.097746	.066934
.21	1.075142	1.081171	1.086998	1.092614	1.098012	1.103190	.070309
.22	1.079208	1.085544	1.091668	1.097570	1.103246	1.108691	.073689
.23	1.083321	1.089964	1.096387	1.102579	1.108534	1.114247	.077073
.24	1.087480	1.094434	1.101157	1.107640	1.113876	1.119860	.080462
.25	1.091686	1.098951	1.105978	1.112754	1.119273	1.125530	.083855
.26	1.095940	1.103518	1.110849	1.117921	1.124725	1.131257	.087254
.27	1.100240	1.108135	1.115773	1.123142	1.130233	1.137042	.090658
.28	1.104589	1.112801	1.120748	1.128416	1.135797	1.142885	.094067
.29	1.108985	1.117517	1.125775	1.133745	1.141418	1.148787	.097482
.30	1.113430	1.122284	1.130855	1.139129	1.147095	1.154747	.100903
.31	1.117924	1.127101	1.135987	1.144567	1.152830	1.160768	.104330
.32	1.122466	1.131970	1.141173	1.150061	1.158622	1.166848	.107763
.33	1.127057	1.136889	1.146413	1.155611	1.164472	1.172988	.111203
.34	1.131698	1.141861	1.151706	1.161217	1.170381	1.179189	.114649
.35	1.136389	1.146884	1.157053	1.166879	1.176348	1.185452	.118102
.36	1.141130	1.151960	1.162456	1.172599	1.182375	1.191776	.121562
.37	1.145921	1.157088	1.167913	1.178376	1.188462	1.198162	.125030
.38	1.150763	1.162269	1.173425	1.184210	1.194609	1.204611	.128505
.39	1.155656	1.167504	1.178993	1.190103	1.200816	1.211122	.131988
.40	1.160601	1.172793	1.184618	1.196054	1.207085	1.217698	.135479
.41	1.165597	1.178135	1.190299	1.202064	1.213415	1.224337	.138978
.42	1.170645	1.183532	1.196037	1.208134	1.219806	1.231041	.142485
.43	1.175746	1.188984	1.201832	1.214264	1.226261	1.237809	.146001
.44	1.180899	1.194491	1.207685	1.220453	1.232778	1.244643	.149526
.45	1.186106	1.200054	1.213595	1.226704	1.239358	1.251543	.153060
.46	1.191366	1.205672	1.219565	1.233015	1.246002	1.258509	.156602
.47	1.196679	1.211347	1.225593	1.239388	1.252710	1.265542	.160155
.48	1.202047	1.217079	1.231681	1.245823	1.259483	1.272643	.163717
.49	1.207469	1.222867	1.237828	1.252321	1.266321	1.279811	.167289
.50	1.212946	1.228713	1.244036	1.258881	1.273225	1.287048	.170871

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

$y \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$\delta(y)$
.50	1.212946	1.228713	1.244036	1.258881	1.273225	1.287048	.170871
.51	1.218478	1.234617	1.250304	1.265505	1.280195	1.294354	.174463
.52	1.224066	1.240579	1.256633	1.272193	1.287232	1.301729	.178066
.53	1.229709	1.246600	1.263024	1.278945	1.294335	1.309175	.181679
.54	1.235409	1.252680	1.269476	1.285761	1.301507	1.316690	.185304
.55	1.241166	1.258819	1.275991	1.292643	1.308746	1.324277	.188939
.56	1.246980	1.265018	1.282568	1.299591	1.316054	1.331936	.192586
.57	1.252851	1.271278	1.289209	1.306605	1.323432	1.339666	.196245
.58	1.258780	1.277598	1.295914	1.313685	1.330879	1.347470	.199916
.59	1.264767	1.283980	1.302682	1.320833	1.338396	1.355347	.203598
.60	1.270813	1.290423	1.309516	1.328048	1.345984	1.363297	.207293
.61	1.276918	1.296928	1.316414	1.335331	1.353644	1.371322	.211001
.62	1.283082	1.303495	1.323378	1.342684	1.361375	1.379422	.214721
.63	1.289306	1.310126	1.330408	1.350105	1.369178	1.387598	.218454
.64	1.295591	1.316819	1.337504	1.357596	1.377055	1.395849	.222200
.65	1.301936	1.323577	1.344668	1.365157	1.385005	1.404178	.225960
.66	1.308343	1.330399	1.351899	1.372790	1.393029	1.412584	.229733
.67	1.314810	1.337286	1.359198	1.380493	1.401128	1.421068	.233521
.68	1.321340	1.344237	1.366565	1.388268	1.409302	1.429630	.237322
.69	1.327932	1.351255	1.374002	1.396116	1.417552	1.438272	.241138
.70	1.334588	1.358339	1.381508	1.404037	1.425878	1.446993	.244969
.71	1.341306	1.365489	1.389084	1.412031	1.434281	1.455795	.248814
.72	1.348088	1.372706	1.396730	1.420099	1.442762	1.464678	.252674
.73	1.354935	1.379991	1.404448	1.428242	1.451321	1.473643	.256550
.74	1.361846	1.387345	1.412237	1.436460	1.459958	1.482691	.260441
.75	1.368822	1.394766	1.420099	1.444753	1.468675	1.491821	.264348
.76	1.375864	1.402257	1.428033	1.453124	1.477473	1.501035	.268271
.77	1.382971	1.409818	1.436040	1.461571	1.486350	1.510333	.272210
.78	1.390146	1.417448	1.444122	1.470095	1.495309	1.519717	.276166
.79	1.397387	1.425150	1.452277	1.478698	1.504350	1.529186	.280139
.80	1.404696	1.432922	1.460508	1.487379	1.513474	1.538741	.284128
.81	1.412073	1.440766	1.468814	1.496140	1.522681	1.548384	.288135
.82	1.419518	1.448683	1.477196	1.504981	1.531971	1.558114	.292159
.83	1.427033	1.456672	1.485655	1.513902	1.541347	1.567933	.296201
.84	1.434617	1.464735	1.494191	1.522905	1.550807	1.577842	.300261
.85	1.442271	1.472871	1.502805	1.531989	1.560354	1.587840	.304340
.86	1.449995	1.481082	1.511497	1.541156	1.569986	1.597929	.308436
.87	1.457791	1.489368	1.520269	1.550406	1.579707	1.608109	.312552
.88	1.465658	1.497729	1.529120	1.559740	1.589515	1.618381	.316686
.89	1.473597	1.506167	1.538051	1.569159	1.599412	1.628746	.320840
.90	1.481609	1.514681	1.547063	1.578662	1.609398	1.639205	.325014
.91	1.489694	1.523273	1.556157	1.588251	1.619474	1.649759	.329207
.92	1.497852	1.531942	1.565333	1.597927	1.629641	1.660407	.333420
.93	1.506085	1.540690	1.574591	1.607690	1.639900	1.671152	.337653
.94	1.514393	1.549517	1.583933	1.617540	1.650251	1.681993	.341908
.95	1.522776	1.558424	1.593359	1.627479	1.660695	1.692931	.346183
.96	1.531235	1.567411	1.602870	1.637508	1.671232	1.703968	.350479
.97	1.539771	1.576479	1.612466	1.647626	1.681864	1.715104	.354796
.98	1.548384	1.585628	1.622149	1.657835	1.692592	1.726340	.359135
.99	1.557074	1.594860	1.631918	1.668135	1.703415	1.737677	.363496
1.00	1.565843	1.604174	1.641774	1.678528	1.714336	1.749115	.367879

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

$y \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$\mathcal{S}(y)$
1.00	1.565843	1.604174	1.641774	1.678528	1.714336	1.749115	.367879
1.01	1.574691	1.613572	1.651719	1.689013	1.725354	1.760656	.372285
1.02	1.583618	1.623054	1.661752	1.699592	1.736470	1.772300	.376714
1.03	1.592625	1.632621	1.671875	1.710265	1.747686	1.784048	.381165
1.04	1.601713	1.642273	1.682088	1.721033	1.759001	1.795901	.385640
1.05	1.610882	1.652011	1.692392	1.731897	1.770418	1.807860	.390138
1.06	1.620133	1.661836	1.702787	1.742858	1.781936	1.819926	.394661
1.07	1.629466	1.671748	1.713275	1.753916	1.793556	1.832099	.399207
1.08	1.638883	1.681748	1.723856	1.765073	1.805280	1.844381	.403778
1.09	1.648384	1.691838	1.734531	1.776328	1.817108	1.856772	.408374
1.10	1.657969	1.702016	1.745301	1.787683	1.829042	1.869273	.412994
1.11	1.667639	1.712285	1.756165	1.799139	1.841081	1.881885	.417640
1.12	1.677395	1.722644	1.767126	1.810696	1.853226	1.894610	.422312
1.13	1.687237	1.733096	1.778184	1.822355	1.865480	1.907448	.427009
1.14	1.697166	1.743639	1.789339	1.834117	1.877841	1.920399	.431733
1.15	1.707184	1.754276	1.800593	1.845984	1.890313	1.933466	.436483
1.16	1.717289	1.765006	1.811946	1.857955	1.902894	1.946648	.441260
1.17	1.727484	1.775831	1.823399	1.870031	1.915587	1.959948	.446064
1.18	1.737769	1.786751	1.834953	1.882214	1.928392	1.973365	.450896
1.19	1.748144	1.797767	1.846609	1.894505	1.941310	1.986901	.455755
1.20	1.758610	1.808880	1.858367	1.906903	1.954342	2.000557	.460643
1.21	1.769169	1.820091	1.870228	1.919411	1.967489	2.014333	.465558
1.22	1.779820	1.831399	1.882193	1.932028	1.980752	2.028232	.470503
1.23	1.790565	1.842807	1.894263	1.944757	1.994131	2.042253	.475476
1.24	1.801403	1.854315	1.906440	1.957597	2.007629	2.056399	.480479
1.25	1.812337	1.865924	1.918722	1.970550	2.021245	2.070669	.485511
1.26	1.823366	1.877634	1.931112	1.983616	2.034981	2.085065	.490573
1.27	1.834492	1.889446	1.943611	1.996798	2.048838	2.099588	.495666
1.28	1.845714	1.901362	1.956219	2.010094	2.062817	2.114239	.500789
1.29	1.857035	1.913381	1.968937	2.023507	2.076918	2.129020	.505943
1.30	1.868454	1.925506	1.981766	2.037038	2.091144	2.143931	.511128
1.31	1.879973	1.937736	1.994707	2.050687	2.105494	2.158973	.516345
1.32	1.891592	1.950072	2.007761	2.064455	2.119970	2.174148	.521593
1.33	1.903313	1.962516	2.020929	2.078343	2.134573	2.189456	.526874
1.34	1.915135	1.975068	2.034212	2.092353	2.149304	2.204899	.532188
1.35	1.927059	1.987729	2.047610	2.106486	2.164164	2.220478	.537535
1.36	1.939088	2.000500	2.061125	2.120741	2.179155	2.236194	.542914
1.37	1.951220	2.013383	2.074757	2.135121	2.194276	2.252048	.548328
1.38	1.963458	2.026376	2.088508	2.149627	2.209530	2.268042	.553775
1.39	1.975802	2.039483	2.102378	2.164259	2.224918	2.284176	.559257
1.40	1.988252	2.052703	2.116369	2.179018	2.240440	2.300451	.564774
1.41	2.000811	2.066038	2.130482	2.193906	2.256098	2.316870	.570325
1.42	2.013477	2.079488	2.144717	2.208924	2.271893	2.333433	.575912
1.43	2.026254	2.093054	2.159075	2.224072	2.287826	2.350141	.581535
1.44	2.039140	2.106738	2.173558	2.239353	2.303898	2.366996	.587194
1.45	2.052138	2.120540	2.188166	2.254766	2.320110	2.383999	.592889
1.46	2.065248	2.134461	2.202902	2.270313	2.336464	2.401151	.598621
1.47	2.078471	2.148503	2.217764	2.285995	2.352961	2.418454	.604391
1.48	2.091808	2.162666	2.232756	2.301814	2.369602	2.435908	.610198
1.49	2.105260	2.176951	2.247877	2.317770	2.386387	2.453515	.616043
1.50	2.118828	2.191359	2.263129	2.333865	2.403320	2.471276	.621927

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

$y \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$S(y)$
1.50	2.118828	2.191359	2.263129	2.333865	2.403320	2.471276	.621927
1.51	2.132512	2.205891	2.278513	2.350099	2.420400	2.489193	.627849
1.52	2.146314	2.220549	2.294030	2.366474	2.437629	2.507267	.633810
1.53	2.160234	2.235333	2.309681	2.382992	2.455008	2.525499	.639811
1.54	2.174274	2.250244	2.325467	2.399652	2.472538	2.543891	.645852
1.55	2.188435	2.265284	2.341389	2.416457	2.490221	2.562444	.651934
1.56	2.202717	2.280453	2.357449	2.433408	2.508059	2.581160	.658056
1.57	2.217122	2.295753	2.373648	2.450506	2.526051	2.600039	.664219
1.58	2.231650	2.311184	2.389987	2.467752	2.544201	2.619083	.670423
1.59	2.246303	2.326748	2.406466	2.485148	2.562508	2.638294	.676670
1.60	2.261082	2.342445	2.423088	2.502694	2.580975	2.657673	.682959
1.61	2.275987	2.358278	2.439853	2.520392	2.599602	2.677222	.689291
1.62	2.291019	2.374246	2.456762	2.538243	2.618391	2.696941	.695666
1.63	2.306180	2.390351	2.473818	2.556249	2.637344	2.716833	.702084
1.64	2.321471	2.406595	2.491020	2.574411	2.656462	2.736899	.708547
1.65	2.336893	2.422978	2.508370	2.592730	2.675746	2.757140	.715054
1.66	2.352447	2.439502	2.525870	2.611207	2.695198	2.777558	.721606
1.67	2.368133	2.456167	2.543520	2.629844	2.714818	2.798155	.728203
1.68	2.383954	2.472975	2.561323	2.648643	2.734610	2.818932	.734846
1.69	2.399909	2.489927	2.579278	2.667604	2.754573	2.839890	.741536
1.70	2.416001	2.507025	2.597389	2.686729	2.774710	2.861031	.748271
1.71	2.432231	2.524269	2.615655	2.706019	2.795022	2.882357	.755054
1.72	2.448598	2.541660	2.634078	2.725476	2.815510	2.903870	.761885
1.73	2.465106	2.559201	2.652659	2.745101	2.836176	2.925570	.768763
1.74	2.481754	2.576892	2.671401	2.764896	2.857022	2.947460	.775690
1.75	2.498544	2.594734	2.690303	2.784862	2.878049	2.969540	.782666
1.76	2.515477	2.612729	2.709368	2.805000	2.899259	2.991814	.789691
1.77	2.532555	2.630877	2.728597	2.825312	2.920652	3.014282	.796766
1.78	2.549778	2.649182	2.747991	2.845800	2.942232	3.036947	.803892
1.79	2.567148	2.667642	2.767552	2.866465	2.963999	3.059809	.811068
1.80	2.584666	2.686261	2.787281	2.887308	2.985955	3.082871	.818296
1.81	2.602333	2.705038	2.807179	2.908331	3.008101	3.106135	.825575
1.82	2.620150	2.723977	2.827248	2.929535	3.030440	3.129601	.832906
1.83	2.638119	2.743077	2.847490	2.950923	3.052973	3.153272	.840290
1.84	2.656241	2.762340	2.867905	2.972495	3.075701	3.177150	.847728
1.85	2.674517	2.781768	2.888496	2.994254	3.098626	3.201237	.855219
1.86	2.692949	2.801362	2.909263	3.016200	3.121751	3.225533	.862764
1.87	2.711537	2.821123	2.930209	3.038336	3.145076	3.250042	.870364
1.88	2.730283	2.841053	2.951334	3.060662	3.168604	3.274764	.878019
1.89	2.749189	2.861153	2.972641	3.083182	3.192335	3.299703	.885730
1.90	2.768256	2.881425	2.994131	3.105895	3.216273	3.324859	.893498
1.91	2.787484	2.901870	3.015805	3.128805	3.240419	3.350234	.901322
1.92	2.806876	2.922490	3.037665	3.151912	3.264774	3.375832	.909203
1.93	2.826433	2.943285	3.059713	3.175219	3.289340	3.401652	.917143
1.94	2.846156	2.964258	3.081950	3.198727	3.314119	3.427698	.925140
1.95	2.866047	2.985411	3.104378	3.222438	3.339114	3.453971	.933197
1.96	2.886106	3.006743	3.126998	3.246353	3.364325	3.480474	.941313
1.97	2.906336	3.028258	3.149812	3.270474	3.389756	3.507207	.949489
1.98	2.926737	3.049956	3.172822	3.294804	3.415406	3.534175	.957726
1.99	2.947312	3.071840	3.196029	3.319343	3.441280	3.561377	.966023
2.00	2.968062	3.093910	3.219435	3.344094	3.467378	3.588817	.974383

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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$S(y)$
2.00	2.968062	3.093910	3.219435	3.344094	3.467378	3.588817	.974383
2.01	2.988988	3.116168	3.243042	3.369059	3.493702	3.616497	.982804
2.02	3.010091	3.138617	3.266852	3.394239	3.520255	3.644418	.991289
2.03	3.031373	3.161256	3.290866	3.419636	3.547038	3.672583	.999837
2.04	3.052837	3.184089	3.315086	3.445253	3.574053	3.700993	1.008449
2.05	3.074482	3.207117	3.339513	3.471090	3.601303	3.729652	1.017125
2.06	3.096311	3.230341	3.364150	3.497150	3.628790	3.758561	1.025867
2.07	3.118325	3.253764	3.388998	3.523435	3.656515	3.787722	1.034674
2.08	3.140526	3.277386	3.414060	3.549947	3.684480	3.817138	1.043548
2.09	3.162916	3.301209	3.439336	3.576687	3.712689	3.846811	1.052489
2.10	3.185495	3.325236	3.464829	3.603658	3.741142	3.876743	1.061497
2.11	3.208266	3.349468	3.490541	3.630862	3.769842	3.906936	1.070573
2.12	3.231231	3.373906	3.516473	3.658301	3.798791	3.937393	1.079718
2.13	3.254390	3.398553	3.542628	3.685976	3.827991	3.968116	1.088933
2.14	3.277745	3.423410	3.569007	3.713890	3.857445	3.999107	1.098218
2.15	3.301299	3.448479	3.595613	3.742045	3.887155	4.030369	1.107573
2.16	3.325052	3.473761	3.622446	3.770443	3.917122	4.061903	1.117000
2.17	3.349007	3.499260	3.649510	3.799086	3.947350	4.093714	1.126498
2.18	3.373166	3.524976	3.676806	3.827976	3.977840	4.125802	1.136070
2.19	3.397529	3.550911	3.704336	3.857115	4.008595	4.158170	1.145714
2.20	3.422099	3.577067	3.732102	3.886506	4.039617	4.190822	1.155432
2.21	3.446877	3.603447	3.760107	3.916150	4.070908	4.223758	1.165226
2.22	3.471866	3.630051	3.788351	3.946051	4.102471	4.256982	1.175094
2.23	3.497066	3.656883	3.816838	3.976209	4.134308	4.290497	1.185038
2.24	3.522480	3.683943	3.845570	4.006628	4.166421	4.324304	1.195059
2.25	3.548110	3.711235	3.874548	4.037309	4.198814	4.358407	1.205157
2.26	3.573958	3.738759	3.903774	4.068255	4.231488	4.392808	1.215334
2.27	3.600024	3.766517	3.933252	4.099469	4.264445	4.427510	1.225588
2.28	3.626312	3.794513	3.962982	4.130952	4.297690	4.462515	1.235923
2.29	3.652823	3.822748	3.992968	4.162706	4.331222	4.497826	1.246337
2.30	3.679558	3.851223	4.023211	4.194735	4.365047	4.533446	1.256833
2.31	3.706521	3.879942	4.053713	4.227041	4.399165	4.569377	1.267410
2.32	3.733712	3.908905	4.084478	4.259625	4.433580	4.605623	1.278069
2.33	3.761135	3.938116	4.115506	4.292492	4.468293	4.642185	1.288811
2.34	3.788789	3.967576	4.146801	4.325641	4.503309	4.679068	1.299638
2.35	3.816679	3.997287	4.178365	4.359078	4.538629	4.716272	1.310548
2.36	3.844805	4.027252	4.210199	4.392803	4.574256	4.753803	1.321544
2.37	3.873170	4.057473	4.242307	4.426820	4.610192	4.791661	1.332626
2.38	3.901776	4.087952	4.274691	4.461130	4.646442	4.829851	1.343795
2.39	3.930624	4.118691	4.307353	4.495737	4.683006	4.868375	1.355052
2.40	3.959718	4.149692	4.340295	4.530643	4.719889	4.907236	1.366397
2.41	3.989058	4.180958	4.373521	4.565851	4.757092	4.946438	1.377831
2.42	4.018648	4.212491	4.407032	4.601364	4.794619	4.985982	1.389355
2.43	4.048488	4.244294	4.440830	4.637183	4.832472	5.025873	1.400969
2.44	4.078582	4.276368	4.474920	4.673312	4.870654	5.066113	1.412676
2.45	4.108932	4.308716	4.509302	4.709753	4.909169	5.106705	1.424474
2.46	4.139539	4.341340	4.543979	4.746510	4.948019	5.147652	1.436366
2.47	4.170407	4.374243	4.578955	4.783584	4.987208	5.188959	1.448352
2.48	4.201536	4.407427	4.614231	4.820979	5.026737	5.230627	1.460433
2.49	4.232930	4.440895	4.649811	4.858698	5.066610	5.272660	1.472610
2.50	4.264591	4.474649	4.685697	4.896742	5.106831	5.315061	1.484883

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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$S(y)$
2.50	4.264591	4.474649	4.685697	4.896742	5.106831	5.315061	1.484883
2.51	4.296520	4.508691	4.721891	4.935117	5.147401	5.357834	1.497254
2.52	4.328721	4.543024	4.758396	4.973823	5.188325	5.400981	1.509723
2.53	4.361196	4.577650	4.795215	5.012864	5.229606	5.444507	1.522291
2.54	4.393947	4.612573	4.832351	5.052243	5.271246	5.488414	1.534959
2.55	4.426975	4.647794	4.869807	5.091963	5.313248	5.532706	1.547728
2.56	4.460285	4.683316	4.907584	5.132026	5.355617	5.577387	1.560599
2.57	4.493878	4.719143	4.945687	5.172437	5.398355	5.622459	1.573572
2.58	4.527756	4.755275	4.984118	5.213198	5.441465	5.667926	1.586650
2.59	4.561923	4.791717	5.022879	5.254311	5.484951	5.713792	1.599831
2.60	4.596380	4.828470	5.061974	5.295781	5.528816	5.760060	1.613119
2.61	4.631130	4.865538	5.101406	5.337610	5.573063	5.806735	1.626512
2.62	4.666176	4.902923	5.141177	5.379801	5.617696	5.853818	1.640014
2.63	4.701519	4.940628	5.181290	5.422358	5.662718	5.901315	1.653623
2.64	4.737164	4.978655	5.221749	5.465284	5.708133	5.949229	1.667342
2.65	4.773111	5.017008	5.262557	5.508582	5.753944	5.997563	1.681171
2.66	4.809365	5.055690	5.303716	5.552255	5.800155	6.046321	1.695111
2.67	4.845927	5.094702	5.345229	5.596307	5.846769	6.095507	1.709163
2.68	4.882800	5.134049	5.387100	5.640740	5.893789	6.145126	1.723328
2.69	4.919988	5.173732	5.429332	5.685559	5.941220	6.195180	1.737608
2.70	4.957491	5.213756	5.471928	5.730767	5.989064	6.245673	1.752003
2.71	4.995315	5.254122	5.514891	5.776366	6.037327	6.296610	1.766514
2.72	5.033460	5.294834	5.558225	5.822362	6.086010	6.347995	1.781142
2.73	5.071930	5.335895	5.601932	5.868756	6.135119	6.399830	1.795889
2.74	5.110728	5.377308	5.646016	5.915553	6.184656	6.452122	1.810755
2.75	5.149856	5.419076	5.690480	5.962756	6.234627	6.504873	1.825741
2.76	5.189318	5.461202	5.735328	6.010369	6.285033	6.558087	1.840849
2.77	5.229116	5.503689	5.780562	6.058395	6.335880	6.611769	1.856079
2.78	5.269253	5.546540	5.826187	6.106838	6.387171	6.665924	1.871433
2.79	5.309732	5.589759	5.872205	6.155702	6.438910	6.720554	1.886911
2.80	5.350556	5.633348	5.918621	6.204990	6.491102	6.775665	1.902515
2.81	5.391729	5.677312	5.965437	6.254706	6.543750	6.831260	1.918247
2.82	5.433252	5.721652	6.012658	6.304854	6.596857	6.887345	1.934106
2.83	5.475130	5.766373	6.060286	6.355438	6.650430	6.943923	1.950094
2.84	5.517364	5.811478	6.108325	6.406461	6.704470	7.000998	1.966212
2.85	5.559960	5.856969	6.156780	6.457928	6.758984	7.058576	1.982462
2.86	5.602918	5.902852	6.205652	6.509842	6.813974	7.116661	1.998845
2.87	5.646243	5.949128	6.254947	6.562207	6.869445	7.175257	2.015361
2.88	5.689938	5.995802	6.304668	6.615028	6.925401	7.234369	2.032012
2.89	5.734006	6.042876	6.354819	6.668308	6.981847	7.294001	2.048799
2.90	5.778450	6.090355	6.405403	6.722051	7.038787	7.354158	2.065723
2.91	5.823273	6.138241	6.456424	6.776262	7.096226	7.414846	2.082786
2.92	5.868480	6.186540	6.507886	6.830945	7.154167	7.476067	2.099989
2.93	5.914072	6.235253	6.559794	6.886103	7.212616	7.537829	2.117333
2.94	5.960054	6.284384	6.612150	6.941741	7.271576	7.600134	2.134818
2.95	6.006429	6.333938	6.664959	6.997864	7.331053	7.662988	2.152448
2.96	6.053199	6.383919	6.718225	7.054475	7.391051	7.726397	2.170222
2.97	6.100370	6.434328	6.771952	7.111579	7.451574	7.790364	2.188142
2.98	6.147944	6.485172	6.826143	7.169180	7.512628	7.854895	2.206209
2.99	6.195925	6.536452	6.880804	7.227283	7.574217	7.919995	2.224425
3.00	6.244315	6.588174	6.935938	7.285891	7.636345	7.985670	2.242790



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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$\delta(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	1.004406	1.004625	1.004834	1.005033	1.005222	1.005401	.003333
.02	1.008860	1.009300	1.009720	1.010119	1.010498	1.010858	.006667
.03	1.013363	1.014026	1.014657	1.015258	1.015830	1.016372	.010001
.04	1.017916	1.018802	1.019648	1.020452	1.021217	1.021943	.013335
.05	1.022518	1.023630	1.024691	1.025700	1.026660	1.027571	.016671
.06	1.027170	1.028510	1.029787	1.031003	1.032159	1.033257	.020007
.07	1.031873	1.033441	1.034937	1.036361	1.037715	1.039002	.023345
.08	1.036626	1.038425	1.040141	1.041775	1.043329	1.044805	.026684
.09	1.041431	1.043462	1.045399	1.047244	1.048999	1.050667	.030024
.10	1.046286	1.048551	1.050712	1.052770	1.054728	1.056589	.033367
.11	1.051194	1.053694	1.056080	1.058353	1.060516	1.062571	.036711
.12	1.056153	1.058891	1.061504	1.063993	1.066362	1.068613	.040058
.13	1.061165	1.064142	1.066983	1.069691	1.072267	1.074717	.043407
.14	1.066230	1.069448	1.072519	1.075447	1.078233	1.080882	.046758
.15	1.071347	1.074808	1.078112	1.081261	1.084258	1.087108	.050113
.16	1.076519	1.080224	1.083762	1.087134	1.090345	1.093398	.053470
.17	1.081744	1.085696	1.089469	1.093067	1.096492	1.099750	.056831
.18	1.087023	1.091223	1.095234	1.099059	1.102701	1.106165	.060195
.19	1.092357	1.096807	1.101058	1.105112	1.108972	1.112645	.063562
.20	1.097746	1.102448	1.106941	1.111225	1.115306	1.119188	.066934
.21	1.103190	1.108147	1.112882	1.117400	1.121703	1.125797	.070309
.22	1.108691	1.113903	1.118884	1.123636	1.128163	1.132471	.073689
.23	1.114247	1.119717	1.124946	1.129934	1.134688	1.139211	.077073
.24	1.119860	1.125590	1.131068	1.136295	1.141276	1.146017	.080462
.25	1.125530	1.131522	1.137251	1.142719	1.147930	1.152890	.083855
.26	1.131257	1.137514	1.143496	1.149207	1.154650	1.159831	.087254
.27	1.137042	1.143565	1.149803	1.155758	1.161435	1.166840	.090658
.28	1.142885	1.149676	1.156172	1.162374	1.168287	1.173917	.094067
.29	1.148787	1.155849	1.162604	1.169055	1.175206	1.181063	.097482
.30	1.154747	1.162082	1.169100	1.175801	1.182192	1.188279	.100903
.31	1.160768	1.168377	1.175659	1.182614	1.189247	1.195565	.104330
.32	1.166848	1.174735	1.182282	1.189493	1.196370	1.202922	.107763
.33	1.172988	1.181155	1.188971	1.196439	1.203563	1.210350	.111203
.34	1.179189	1.187638	1.195725	1.203452	1.210825	1.217850	.114649
.35	1.185452	1.194184	1.202544	1.210534	1.218157	1.225422	.118102
.36	1.191776	1.200795	1.209430	1.217684	1.225561	1.233067	.121562
.37	1.198162	1.207469	1.216383	1.224903	1.233035	1.240786	.125030
.38	1.204611	1.214209	1.223403	1.232192	1.240582	1.248580	.128505
.39	1.211122	1.221015	1.230491	1.239551	1.248201	1.256448	.131988
.40	1.217698	1.227886	1.237647	1.246981	1.255894	1.264391	.135479
.41	1.224337	1.234824	1.244872	1.254482	1.263660	1.272410	.138978
.42	1.231041	1.241828	1.252167	1.262056	1.271500	1.280507	.142485
.43	1.237809	1.248901	1.259531	1.269701	1.279415	1.288680	.146001
.44	1.244643	1.256041	1.266966	1.277420	1.287406	1.296931	.149526
.45	1.251543	1.263249	1.274472	1.285212	1.295472	1.305261	.153060
.46	1.258509	1.270527	1.282050	1.293078	1.303616	1.313670	.156602
.47	1.265542	1.277874	1.289700	1.301020	1.311837	1.322158	.160155
.48	1.272643	1.285291	1.297423	1.309036	1.320135	1.330727	.163717
.49	1.279811	1.292779	1.305219	1.317129	1.328513	1.339378	.167289
.50	1.287048	1.300338	1.313089	1.325298	1.336969	1.348110	.170871

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

$y \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$S(y)$
.50	1.287048	1.300338	1.313089	1.325298	1.336969	1.348110	.170871
.51	1.294354	1.307969	1.321033	1.333544	1.345506	1.356924	.174463
.52	1.301729	1.315672	1.329052	1.341868	1.354123	1.365822	.178066
.53	1.309175	1.323448	1.337148	1.350271	1.362821	1.374804	.181679
.54	1.316690	1.331297	1.345319	1.358753	1.371600	1.383870	.185304
.55	1.324277	1.339221	1.353567	1.367314	1.380463	1.393021	.188939
.56	1.331936	1.347219	1.361893	1.375956	1.389408	1.402258	.192586
.57	1.339666	1.355292	1.370297	1.384678	1.398438	1.411582	.196245
.58	1.347470	1.363440	1.378779	1.393483	1.407552	1.420993	.199916
.59	1.355347	1.371665	1.387341	1.402369	1.416751	1.430492	.203598
.60	1.363297	1.379967	1.395983	1.411339	1.426036	1.440080	.207293
.61	1.371322	1.388347	1.404706	1.420392	1.435408	1.449758	.211001
.62	1.379422	1.396805	1.413509	1.429530	1.444887	1.459526	.214721
.63	1.387598	1.405341	1.422395	1.438753	1.454414	1.469385	.218454
.64	1.395849	1.413957	1.431363	1.448061	1.464050	1.479336	.222200
.65	1.404178	1.422653	1.440415	1.457456	1.473776	1.489379	.225960
.66	1.412584	1.431429	1.449550	1.466938	1.483591	1.499516	.229733
.67	1.421068	1.440287	1.458770	1.476508	1.493498	1.509747	.233521
.68	1.429630	1.449227	1.468076	1.486166	1.503497	1.520073	.237322
.69	1.438272	1.458250	1.477467	1.495914	1.513588	1.530494	.241138
.70	1.446993	1.467355	1.486945	1.505751	1.523773	1.541012	.244969
.71	1.455795	1.476545	1.496510	1.515680	1.534051	1.551628	.248814
.72	1.464678	1.485819	1.506164	1.525700	1.544425	1.562341	.252674
.73	1.473643	1.495179	1.515906	1.535812	1.554894	1.573154	.256550
.74	1.482691	1.504624	1.525738	1.546018	1.565460	1.584067	.260441
.75	1.491821	1.514157	1.535660	1.556317	1.576123	1.595080	.264348
.76	1.501035	1.523776	1.545673	1.566710	1.586884	1.606195	.268271
.77	1.510333	1.533484	1.555778	1.577200	1.597744	1.617412	.272210
.78	1.519717	1.543280	1.565975	1.587785	1.608704	1.628733	.276166
.79	1.529186	1.553166	1.576266	1.598467	1.619764	1.640157	.280139
.80	1.538741	1.563143	1.586650	1.609247	1.630926	1.651687	.284128
.81	1.548384	1.573210	1.597130	1.620126	1.642190	1.663323	.288135
.82	1.558114	1.583369	1.607705	1.631104	1.653557	1.675065	.292159
.83	1.567933	1.593620	1.618376	1.642182	1.665029	1.686915	.296201
.84	1.577842	1.603965	1.629145	1.653361	1.676605	1.698874	.300261
.85	1.587840	1.614403	1.640011	1.664643	1.688287	1.710943	.304340
.86	1.597929	1.624937	1.650977	1.676027	1.700076	1.723122	.308436
.87	1.608109	1.635565	1.662042	1.687515	1.711972	1.735412	.312552
.88	1.618381	1.646291	1.673207	1.699107	1.723977	1.747815	.316686
.89	1.628746	1.657113	1.684474	1.710804	1.736092	1.760332	.320840
.90	1.639205	1.668033	1.695843	1.722608	1.748316	1.772963	.325014
.91	1.649759	1.679052	1.707314	1.734519	1.760652	1.785709	.329207
.92	1.660407	1.690170	1.718890	1.746539	1.773101	1.798571	.333420
.93	1.671152	1.701389	1.730570	1.758667	1.785662	1.811551	.337653
.94	1.681993	1.712709	1.742356	1.770905	1.798338	1.824650	.341908
.95	1.692931	1.724131	1.754248	1.783254	1.811129	1.837867	.346183
.96	1.703968	1.735655	1.766248	1.795715	1.824036	1.851205	.350479
.97	1.715104	1.747284	1.778356	1.808288	1.837060	1.864665	.354796
.98	1.726340	1.759017	1.790573	1.820975	1.850203	1.878247	.359135
.99	1.737677	1.770855	1.802900	1.833777	1.863464	1.891953	.363496
1.00	1.749115	1.782800	1.815338	1.846694	1.876846	1.905783	.367879

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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$S(y)$
1.00	1.749115	1.782800	1.815338	1.846694	1.876846	1.905783	.367879
1.01	1.760656	1.794852	1.827888	1.859728	1.890349	1.919739	.372285
1.02	1.772300	1.807012	1.840551	1.872880	1.903974	1.933822	.376714
1.03	1.784048	1.819281	1.853328	1.886150	1.917722	1.948032	.381165
1.04	1.795901	1.831660	1.866220	1.899540	1.931595	1.962372	.385640
1.05	1.807860	1.844149	1.879227	1.913051	1.945593	1.976842	.390138
1.06	1.819926	1.856751	1.892351	1.926683	1.959718	1.991443	.394661
1.07	1.832099	1.869465	1.905593	1.940438	1.973971	2.006177	.399207
1.08	1.844381	1.882293	1.918953	1.954316	1.988352	2.021044	.403778
1.09	1.856772	1.895235	1.932433	1.968320	2.002863	2.036046	.408374
1.10	1.869273	1.908293	1.946034	1.982449	2.017505	2.051183	.412994
1.11	1.881885	1.921467	1.959757	1.996705	2.032278	2.066458	.417640
1.12	1.894610	1.934759	1.973602	2.011090	2.047186	2.081871	.422312
1.13	1.907448	1.948169	1.987572	2.025603	2.062227	2.097424	.427009
1.14	1.920399	1.961699	2.001666	2.040247	2.077404	2.113117	.431733
1.15	1.933466	1.975349	2.015886	2.055022	2.092718	2.128953	.436483
1.16	1.946648	1.989120	2.030233	2.069929	2.108170	2.144931	.441260
1.17	1.959948	2.003014	2.044708	2.084970	2.123760	2.161054	.446064
1.18	1.973365	2.017032	2.059313	2.100146	2.139491	2.177322	.450896
1.19	1.986901	2.031174	2.074047	2.115458	2.155364	2.193738	.455755
1.20	2.000557	2.045442	2.088914	2.130908	2.171379	2.210302	.460643
1.21	2.014333	2.059837	2.103912	2.146495	2.187539	2.227015	.465558
1.22	2.028232	2.074359	2.119045	2.162222	2.203843	2.243879	.470503
1.23	2.042253	2.089010	2.134312	2.178089	2.220294	2.260896	.475476
1.24	2.056399	2.103791	2.149715	2.194099	2.236893	2.278066	.480479
1.25	2.070669	2.118704	2.165255	2.210252	2.253641	2.295391	.485511
1.26	2.085065	2.133748	2.180934	2.226549	2.270539	2.312872	.490573
1.27	2.099588	2.148926	2.196752	2.242991	2.287589	2.330511	.495666
1.28	2.114239	2.164238	2.212711	2.259581	2.304792	2.348308	.500789
1.29	2.129020	2.179685	2.228811	2.276319	2.322149	2.366266	.505943
1.30	2.143931	2.195270	2.245055	2.293206	2.339662	2.384386	.511128
1.31	2.158973	2.210992	2.261443	2.310244	2.357332	2.402670	.516345
1.32	2.174148	2.226853	2.277977	2.327434	2.375161	2.421117	.521593
1.33	2.189456	2.242855	2.294658	2.344777	2.393149	2.439732	.526874
1.34	2.204899	2.258998	2.311487	2.362276	2.411299	2.458513	.532188
1.35	2.220478	2.275284	2.328465	2.379930	2.429611	2.477464	.537535
1.36	2.236194	2.291713	2.345594	2.397741	2.448088	2.496585	.542914
1.37	2.252048	2.308288	2.362874	2.415712	2.466729	2.515879	.548328
1.38	2.268042	2.325009	2.380309	2.433843	2.485538	2.535346	.553775
1.39	2.284176	2.341878	2.397897	2.452135	2.504515	2.554988	.559257
1.40	2.300451	2.358895	2.415642	2.470590	2.523662	2.574807	.564774
1.41	2.316870	2.376063	2.433544	2.489210	2.542981	2.594804	.570325
1.42	2.333433	2.393382	2.451605	2.507995	2.562472	2.614981	.575912
1.43	2.350141	2.410854	2.469826	2.526948	2.582138	2.635339	.581535
1.44	2.366996	2.428480	2.488208	2.546069	2.601980	2.655881	.587194
1.45	2.383999	2.446261	2.506753	2.565361	2.621999	2.676607	.592889
1.46	2.401151	2.464199	2.525462	2.584825	2.642198	2.697520	.598621
1.47	2.418454	2.482295	2.544337	2.604461	2.662577	2.718620	.604391
1.48	2.435908	2.500551	2.563380	2.624273	2.683138	2.739910	.610198
1.49	2.453515	2.518967	2.582590	2.644261	2.703883	2.761392	.616043
1.50	2.471276	2.537546	2.601971	2.664426	2.724814	2.783066	.621927

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

$y \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$S(y)$
1.50	2.471276	2.537546	2.601971	2.664426	2.724814	2.783066	.621927
1.51	2.489193	2.556288	2.621523	2.684771	2.745932	2.804935	.627849
1.52	2.507267	2.575195	2.641249	2.705297	2.767239	2.827001	.633810
1.53	2.525499	2.594268	2.661148	2.726005	2.788736	2.849265	.639811
1.54	2.543891	2.613510	2.681224	2.746898	2.810425	2.871729	.645852
1.55	2.562444	2.632921	2.701478	2.767976	2.832308	2.894395	.651934
1.56	2.581160	2.652502	2.721910	2.789242	2.854387	2.917264	.658056
1.57	2.600039	2.672256	2.742524	2.810697	2.876663	2.940339	.664219
1.58	2.619083	2.692183	2.763319	2.832342	2.899137	2.963620	.670423
1.59	2.638294	2.712286	2.784299	2.854180	2.921813	2.987111	.676670
1.60	2.657673	2.732566	2.805463	2.876212	2.944692	3.010813	.682959
1.61	2.677222	2.753024	2.826815	2.898440	2.967774	3.034728	.689291
1.62	2.696941	2.773661	2.848356	2.920865	2.991063	3.058857	.695666
1.63	2.716833	2.794481	2.870087	2.943490	3.014560	3.083203	.702084
1.64	2.736899	2.815483	2.892010	2.966315	3.038267	3.107768	.708547
1.65	2.757140	2.836669	2.914127	2.989343	3.062185	3.132553	.715054
1.66	2.777558	2.858042	2.936439	3.012576	3.086317	3.157561	.721606
1.67	2.798155	2.879603	2.958949	3.036016	3.110665	3.182793	.728203
1.68	2.818932	2.901353	2.981657	3.059663	3.135230	3.208251	.734846
1.69	2.839890	2.923295	3.004566	3.083521	3.160014	3.233939	.741536
1.70	2.861031	2.945429	3.027677	3.107590	3.185020	3.259856	.748271
1.71	2.882357	2.967757	3.050992	3.131873	3.210249	3.286007	.755054
1.72	2.903870	2.990282	3.074513	3.156372	3.235703	3.312392	.761885
1.73	2.925570	3.013004	3.098242	3.181088	3.261385	3.339014	.768763
1.74	2.947460	3.035926	3.122181	3.206024	3.287296	3.365875	.775690
1.75	2.969540	3.059050	3.146331	3.231182	3.313438	3.392977	.782666
1.76	2.991814	3.082376	3.170694	3.256562	3.339814	3.420322	.789691
1.77	3.014282	3.105907	3.195273	3.282168	3.366425	3.447912	.796766
1.78	3.036947	3.129645	3.220068	3.308002	3.393273	3.475751	.803892
1.79	3.059809	3.153591	3.245083	3.334065	3.420362	3.503839	.811068
1.80	3.082871	3.177748	3.270318	3.360359	3.447692	3.532179	.818296
1.81	3.106135	3.202117	3.295776	3.386887	3.475266	3.560774	.825575
1.82	3.129601	3.226699	3.321459	3.413650	3.503087	3.589625	.832906
1.83	3.153272	3.251498	3.347369	3.440651	3.531156	3.618736	.840290
1.84	3.177150	3.276514	3.373507	3.467892	3.559475	3.648107	.847728
1.85	3.201237	3.301750	3.399877	3.495375	3.588048	3.677742	.855219
1.86	3.225533	3.327207	3.426479	3.523102	3.616875	3.707644	.862764
1.87	3.250042	3.352888	3.453316	3.551075	3.645960	3.737813	.870364
1.88	3.274764	3.378794	3.480390	3.579296	3.675304	3.768254	.878019
1.89	3.299703	3.404928	3.507703	3.607768	3.704911	3.798968	.885730
1.90	3.324859	3.431291	3.535257	3.636493	3.734782	3.829958	.893498
1.91	3.350234	3.457886	3.563055	3.665473	3.764920	3.861225	.901322
1.92	3.375832	3.484714	3.591098	3.694710	3.795327	3.892774	.909203
1.93	3.401652	3.511778	3.619389	3.724207	3.826005	3.924606	.917143
1.94	3.427698	3.539079	3.647929	3.753966	3.856958	3.956723	.925140
1.95	3.453971	3.566620	3.676722	3.783989	3.888186	3.989129	.933197
1.96	3.480474	3.594403	3.705768	3.814279	3.919694	4.021826	.941313
1.97	3.507207	3.622429	3.735072	3.844838	3.951483	4.054817	.949489
1.98	3.534175	3.650702	3.764634	3.875668	3.983557	4.088104	.957726
1.99	3.561377	3.679223	3.794457	3.906772	4.015916	4.121690	.966023
2.00	3.588817	3.707995	3.824544	3.938153	4.048565	4.155577	.974383

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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$\delta(y)$
2.00	3.588817	3.707995	3.824544	3.938153	4.048565	4.155577	.974383
2.01	3.616497	3.737019	3.854896	3.969812	4.081505	4.189769	.982804
2.02	3.644418	3.766298	3.885516	4.001752	4.114740	4.224268	.991289
2.03	3.672583	3.795834	3.916407	4.033977	4.148272	4.259077	.999837
2.04	3.700993	3.825629	3.947571	4.066487	4.182103	4.294199	1.008449
2.05	3.729652	3.855686	3.979010	4.099287	4.216236	4.329636	1.017125
2.06	3.758561	3.886007	4.010727	4.132378	4.250675	4.365392	1.025867
2.07	3.787722	3.916595	4.042724	4.165763	4.285421	4.401468	1.034674
2.08	3.817138	3.947451	4.075004	4.199444	4.320478	4.437869	1.043548
2.09	3.846811	3.978578	4.107569	4.233425	4.355848	4.474598	1.052489
2.10	3.876743	4.009978	4.140422	4.267709	4.391534	4.511656	1.061497
2.11	3.906936	4.041655	4.173565	4.302296	4.427540	4.549047	1.070573
2.12	3.937393	4.073609	4.207001	4.337192	4.463867	4.586774	1.079718
2.13	3.968116	4.105845	4.240732	4.372397	4.500519	4.624841	1.088933
2.14	3.999107	4.138363	4.274762	4.407915	4.537498	4.663249	1.098218
2.15	4.030369	4.171167	4.309093	4.443750	4.574809	4.702003	1.107573
2.16	4.061903	4.204260	4.343727	4.479902	4.612452	4.741106	1.117000
2.17	4.093714	4.237643	4.378667	4.516377	4.650433	4.780560	1.126498
2.18	4.125802	4.271320	4.413916	4.553175	4.688753	4.820368	1.136070
2.19	4.158170	4.305293	4.449476	4.590301	4.727416	4.860535	1.145714
2.20	4.190822	4.339564	4.485352	4.627758	4.766425	4.901063	1.155432
2.21	4.223758	4.374137	4.521544	4.665547	4.805782	4.941956	1.165226
2.22	4.256982	4.409013	4.558056	4.703672	4.845492	4.983216	1.175094
2.23	4.290497	4.444197	4.594892	4.742137	4.885557	5.024847	1.185038
2.24	4.324304	4.479689	4.632053	4.780944	4.925981	5.066853	1.195059
2.25	4.358407	4.515494	4.669543	4.820096	4.966766	5.109237	1.205157
2.26	4.392808	4.551613	4.707365	4.859597	5.007916	5.152003	1.215334
2.27	4.427510	4.588050	4.745521	4.899449	5.049435	5.195153	1.225588
2.28	4.462515	4.624808	4.784015	4.939656	5.091325	5.238691	1.235923
2.29	4.497826	4.661889	4.822849	4.980220	5.133590	5.282622	1.246337
2.30	4.533446	4.699296	4.862027	5.021146	5.176234	5.326947	1.256833
2.31	4.569377	4.737032	4.901552	5.062436	5.219259	5.371672	1.267410
2.32	4.605623	4.775100	4.941427	5.104094	5.262670	5.416800	1.278069
2.33	4.642185	4.813504	4.981655	5.146123	5.306469	5.462333	1.288811
2.34	4.679068	4.852245	5.022239	5.188526	5.350661	5.508277	1.299638
2.35	4.716272	4.891327	5.063182	5.231307	5.395248	5.554635	1.310548
2.36	4.753803	4.930753	5.104488	5.274468	5.440235	5.601410	1.321544
2.37	4.791661	4.970526	5.146160	5.318014	5.485624	5.648606	1.332626
2.38	4.829851	5.010649	5.188200	5.361949	5.531421	5.696227	1.343795
2.39	4.868375	5.051126	5.230613	5.406274	5.577628	5.744278	1.355052
2.40	4.907236	5.091959	5.273402	5.450995	5.624248	5.792761	1.366397
2.41	4.946438	5.133151	5.316570	5.496114	5.671287	5.841682	1.377831
2.42	4.985982	5.174707	5.360120	5.541635	5.718747	5.891043	1.389355
2.43	5.025873	5.216628	5.404056	5.587561	5.766633	5.940849	1.400969
2.44	5.066113	5.258919	5.448382	5.633898	5.814948	5.991104	1.412676
2.45	5.106705	5.301582	5.493101	5.680647	5.863696	6.041812	1.424474
2.46	5.147652	5.344621	5.538215	5.727823	5.912881	6.092977	1.436366
2.47	5.188959	5.388039	5.583730	5.775400	5.962507	6.144603	1.448352
2.48	5.230627	5.431840	5.629648	5.823411	6.012579	6.196695	1.460433
2.49	5.272660	5.476027	5.675974	5.871850	6.063099	6.249257	1.472610
2.50	5.315061	5.520604	5.722710	5.920722	6.114073	6.302292	1.484883

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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$S(y)$
2.50	5.315061	5.520604	5.722710	5.920722	6.114073	6.302292	1.484883
2.51	5.357834	5.565573	5.769861	5.970029	6.165504	6.355807	1.497254
2.52	5.400981	5.610939	5.817430	6.019776	6.217396	6.409803	1.509723
2.53	5.444507	5.656705	5.865421	6.069968	6.269754	6.464287	1.522291
2.54	5.488414	5.702875	5.913838	6.120607	6.322582	6.519263	1.534959
2.55	5.532706	5.749452	5.962684	6.171698	6.375884	6.574735	1.547728
2.56	5.577387	5.796439	6.011964	6.223245	6.429665	6.630707	1.560599
2.57	5.622459	5.843841	6.061681	6.275252	6.483928	6.687185	1.573572
2.58	5.667926	5.891662	6.111840	6.327724	6.538678	6.744172	1.586650
2.59	5.713792	5.939904	6.162443	6.380664	6.593920	6.801674	1.599831
2.60	5.760060	5.988572	6.213496	6.434076	6.649659	6.859695	1.613119
2.61	5.806735	6.037670	6.265003	6.487966	6.705897	6.918240	1.626512
2.62	5.853818	6.087201	6.316966	6.542337	6.762641	6.977313	1.640014
2.63	5.901315	6.137169	6.369392	6.597194	6.819895	7.036920	1.653623
2.64	5.949229	6.187579	6.422283	6.652541	6.877663	7.097066	1.667342
2.65	5.997563	6.238433	6.475643	6.708383	6.935950	7.157755	1.681171
2.66	6.046321	6.289737	6.529478	6.764723	6.994761	7.218992	1.695111
2.67	6.095507	6.341494	6.583791	6.821568	7.054101	7.280783	1.709163
2.68	6.145126	6.393708	6.638587	6.878920	7.113974	7.343131	1.723328
2.69	6.195180	6.446383	6.693870	6.936785	7.174385	7.406044	1.737608
2.70	6.245673	6.499524	6.749644	6.995167	7.235339	7.469525	1.752003
2.71	6.296610	6.553135	6.805915	7.054071	7.296842	7.533580	1.766514
2.72	6.347995	6.607219	6.862685	7.113502	7.358897	7.598214	1.781142
2.73	6.399830	6.661782	6.919960	7.173465	7.421511	7.663433	1.795889
2.74	6.452122	6.716826	6.977745	7.233964	7.484687	7.729241	1.810755
2.75	6.504873	6.772358	7.036044	7.295004	7.548433	7.795644	1.825741
2.76	6.558087	6.828380	7.094861	7.356591	7.612751	7.862649	1.840849
2.77	6.611769	6.884898	7.154202	7.418728	7.677649	7.930259	1.856079
2.78	6.665924	6.941916	7.214070	7.481422	7.743130	7.998481	1.871433
2.79	6.720554	6.999438	7.274471	7.544677	7.809201	8.067320	1.886911
2.80	6.775665	7.057470	7.335410	7.608498	7.875867	8.136782	1.902515
2.81	6.831260	7.116014	7.396892	7.672890	7.943132	8.206873	1.918247
2.82	6.887345	7.175077	7.458921	7.737859	8.011004	8.277599	1.934106
2.83	6.943923	7.234663	7.521502	7.803410	8.079486	8.348964	1.950094
2.84	7.000998	7.294776	7.584640	7.869547	8.148585	8.420976	1.966212
2.85	7.058576	7.355421	7.648341	7.936278	8.218307	8.493640	1.982462
2.86	7.116661	7.416604	7.712609	8.003606	8.288657	8.566962	1.998845
2.87	7.175077	7.478328	7.777449	8.071537	8.359640	8.640947	2.015361
2.88	7.234369	7.540599	7.842868	8.140077	8.431264	8.715604	2.032012
2.89	7.294001	7.603421	7.908869	8.209231	8.503532	8.790936	2.048799
2.90	7.354158	7.666800	7.975458	8.279006	8.576452	8.866951	2.065723
2.91	7.414846	7.730741	8.042641	8.349405	8.650029	8.943654	2.082786
2.92	7.476067	7.795248	8.110423	8.420436	8.724270	9.021053	2.099989
2.93	7.537829	7.860327	8.178809	8.492104	8.799179	9.099154	2.117333
2.94	7.600134	7.925983	8.247805	8.564414	8.874765	9.177962	2.134818
2.95	7.662988	7.992221	8.317417	8.637373	8.951032	9.257485	2.152448
2.96	7.726397	8.059046	8.387649	8.710986	9.027986	9.337728	2.170222
2.97	7.790364	8.126464	8.458507	8.785260	9.105635	9.418700	2.188142
2.98	7.854895	8.194480	8.529998	8.860200	9.183985	9.500405	2.206209
2.99	7.919995	8.263099	8.602127	8.935813	9.263041	9.582852	2.224425
3.00	7.985670	8.332327	8.674899	9.012104	9.342811	9.666047	2.242790

Table of  $Q(y, \frac{1}{q})$  and  $S(y)$ 

$y/q$	0.5	0.4	0.3	0.2	0.1	0.0	$S(y)$
.00	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	.000000
.01	1.005401	1.006167	1.007061	1.008041	1.009045	1.010050	.003333
.02	1.010858	1.012396	1.014193	1.016163	1.018181	1.020201	.006667
.03	1.016372	1.018689	1.021396	1.024366	1.027409	1.030455	.010001
.04	1.021943	1.025046	1.028672	1.032652	1.036729	1.040811	.013335
.05	1.027571	1.031466	1.036021	1.041020	1.046143	1.051271	.016671
.06	1.033257	1.037952	1.043443	1.049473	1.055652	1.061837	.020007
.07	1.039002	1.044502	1.050939	1.058009	1.065255	1.072508	.023345
.08	1.044805	1.051119	1.058511	1.066632	1.074955	1.083287	.026684
.09	1.050667	1.057801	1.066157	1.075340	1.084753	1.094174	.030024
.10	1.056589	1.064551	1.073880	1.084135	1.094648	1.105171	.033367
.11	1.062571	1.071368	1.081680	1.093018	1.104643	1.116278	.036711
.12	1.068613	1.078253	1.089557	1.101990	1.114737	1.127497	.040058
.13	1.074717	1.085207	1.097512	1.111051	1.124933	1.138828	.043407
.14	1.080881	1.092230	1.105546	1.120202	1.135231	1.150274	.046758
.15	1.087108	1.099322	1.113660	1.129444	1.145631	1.161834	.050113
.16	1.093398	1.106484	1.121854	1.138778	1.156136	1.173511	.053470
.17	1.099750	1.113718	1.130129	1.148205	1.166746	1.185305	.056831
.18	1.106165	1.121023	1.138486	1.157725	1.177462	1.197217	.060195
.19	1.112645	1.128399	1.146925	1.167340	1.188285	1.209250	.063562
.20	1.119188	1.135849	1.155447	1.177050	1.199216	1.221403	.066934
.21	1.125797	1.143371	1.164053	1.186857	1.210256	1.233678	.070309
.22	1.132471	1.150968	1.172743	1.196760	1.221406	1.246077	.073689
.23	1.139211	1.158638	1.181519	1.206762	1.232668	1.258600	.077073
.24	1.146017	1.166384	1.190381	1.216863	1.244042	1.271219	.080462
.25	1.152890	1.174206	1.199330	1.227063	1.255530	1.284025	.083855
.26	1.159831	1.182104	1.208366	1.237365	1.267133	1.296930	.087254
.27	1.166840	1.190078	1.217491	1.247768	1.278851	1.309964	.090658
.28	1.173917	1.198131	1.226705	1.258274	1.290686	1.323130	.094067
.29	1.181063	1.206261	1.236009	1.268884	1.302638	1.336427	.097482
.30	1.188279	1.214471	1.245404	1.279598	1.314711	1.349859	.100903
.31	1.195565	1.222760	1.254891	1.290418	1.326903	1.363425	.104330
.32	1.202922	1.231129	1.264470	1.301345	1.339217	1.377128	.107763
.33	1.210350	1.239580	1.274142	1.312379	1.351653	1.390968	.111203
.34	1.217850	1.248112	1.283908	1.323522	1.364214	1.404948	.114649
.35	1.225422	1.256726	1.293770	1.334775	1.376899	1.419068	.118102
.36	1.233067	1.265423	1.303727	1.346438	1.389711	1.433329	.121562
.37	1.240786	1.274204	1.313780	1.357613	1.402650	1.447734	.125030
.38	1.248580	1.283069	1.323932	1.369201	1.415719	1.462284	.128505
.39	1.256448	1.292020	1.334181	1.380903	1.428917	1.476981	.131988
.40	1.264391	1.301056	1.344530	1.392720	1.442246	1.491825	.135479
.41	1.272410	1.310179	1.354979	1.404653	1.455708	1.506818	.138978
.42	1.280507	1.319390	1.365530	1.416703	1.469304	1.521962	.142485
.43	1.288680	1.328688	1.376182	1.428871	1.483036	1.537258	.146001
.44	1.296931	1.338075	1.386937	1.441159	1.496903	1.552707	.149526
.45	1.305261	1.347552	1.397796	1.453567	1.510909	1.568312	.153060
.46	1.313670	1.357119	1.408760	1.466097	1.525054	1.584074	.156602
.47	1.322158	1.366778	1.419830	1.478750	1.539339	1.599994	.160155
.48	1.330727	1.376528	1.431006	1.491526	1.553767	1.616074	.163717
.49	1.339378	1.386372	1.442290	1.504428	1.568337	1.632316	.167289
.50	1.348110	1.396308	1.453683	1.517456	1.583053	1.648721	.170871

Table of  $Q(y, 1/4)$  and  $S(y)$

$y/4$	0.5	0.4	0.3	0.2	0.1	0.0	$S(y)$
.50	1.348110	1.396308	1.453683	1.517456	1.583053	1.648721	.170871
.51	1.356924	1.406339	1.465185	1.530611	1.597914	1.665291	.174463
.52	1.365822	1.416466	1.476798	1.543896	1.612924	1.682028	.178066
.53	1.374804	1.426688	1.488523	1.557310	1.628082	1.698932	.181679
.54	1.383870	1.437007	1.500360	1.570855	1.643391	1.716007	.185304
.55	1.393021	1.447424	1.512311	1.584533	1.658852	1.733253	.188939
.56	1.402258	1.457939	1.524376	1.598344	1.674466	1.750673	.192586
.57	1.411582	1.468554	1.536558	1.612291	1.690235	1.768267	.196245
.58	1.420993	1.479268	1.548856	1.626373	1.706161	1.786038	.199916
.59	1.430492	1.490085	1.561272	1.640593	1.722245	1.803988	.203598
.60	1.440080	1.501003	1.573807	1.654952	1.738489	1.822119	.207293
.61	1.449758	1.512023	1.586462	1.669452	1.754893	1.840431	.211001
.62	1.459526	1.523148	1.599238	1.684092	1.771461	1.858928	.214721
.63	1.469385	1.534378	1.612137	1.698876	1.788192	1.877611	.218454
.64	1.479336	1.545713	1.625159	1.713803	1.805090	1.896481	.222200
.65	1.489379	1.557154	1.638305	1.728877	1.822155	1.915541	.225960
.66	1.499516	1.568703	1.651577	1.744097	1.839390	1.934792	.229733
.67	1.509747	1.580361	1.664976	1.759465	1.856795	1.954237	.233521
.68	1.520073	1.592127	1.678503	1.774984	1.874373	1.973878	.237322
.69	1.530494	1.604004	1.692159	1.790653	1.892126	1.993716	.241138
.70	1.541012	1.615993	1.705945	1.806476	1.910054	2.013753	.244969
.71	1.551628	1.628094	1.719863	1.822452	1.928160	2.033991	.248814
.72	1.562341	1.640308	1.733914	1.838584	1.946445	2.054433	.252674
.73	1.573154	1.652636	1.748098	1.854873	1.964912	2.075081	.256550
.74	1.584067	1.665079	1.762418	1.871320	1.983562	2.095936	.260441
.75	1.595080	1.677639	1.776874	1.887928	2.002396	2.117000	.264348
.76	1.606195	1.690316	1.791468	1.904697	2.021417	2.138276	.268271
.77	1.617412	1.703112	1.806201	1.921629	2.040627	2.159766	.272210
.78	1.628733	1.716027	1.821074	1.938727	2.060027	2.181472	.276166
.79	1.640157	1.729062	1.836088	1.955990	2.079619	2.203396	.280139
.80	1.651687	1.742219	1.851245	1.973421	2.099405	2.225541	.284128
.81	1.663323	1.755499	1.866547	1.991022	2.119388	2.247908	.288135
.82	1.675065	1.768902	1.881994	2.008794	2.139568	2.270500	.292159
.83	1.686915	1.782430	1.897588	2.026738	2.159948	2.293319	.296201
.84	1.698874	1.796084	1.913330	2.044857	2.180530	2.316367	.300261
.85	1.710943	1.809865	1.929222	2.063153	2.201315	2.339647	.304340
.86	1.723122	1.823774	1.945264	2.081625	2.222307	2.363161	.308436
.87	1.735412	1.837812	1.961459	2.100278	2.243506	2.386911	.312552
.88	1.747815	1.851981	1.977808	2.119111	2.264916	2.410900	.316686
.89	1.760332	1.866281	1.994312	2.138128	2.286537	2.435130	.320840
.90	1.772963	1.880715	2.010972	2.157329	2.308373	2.459603	.325014
.91	1.785709	1.895282	2.027791	2.176717	2.330424	2.484323	.329207
.92	1.798571	1.909984	2.044769	2.196292	2.352694	2.509290	.333420
.93	1.811551	1.924823	2.061908	2.216058	2.375184	2.534509	.337653
.94	1.824650	1.939799	2.079209	2.236016	2.397897	2.559981	.341908
.95	1.837867	1.954914	2.096675	2.256168	2.420835	2.585710	.346183
.96	1.851205	1.970170	2.114306	2.276515	2.444000	2.611696	.350479
.97	1.864665	1.985566	2.132104	2.297059	2.467394	2.637944	.354796
.98	1.878247	2.001105	2.150071	2.317803	2.491020	2.664456	.359135
.99	1.891953	2.016788	2.168208	2.338749	2.514880	2.691234	.363496
1.00	1.905783	2.032616	2.186517	2.359897	2.538975	2.718282	.367879



Table of  $Q(y, \frac{1}{\phi})$  and  $\mathcal{S}(y)$ 

$y/\phi$	0.5	0.4	0.3	0.2	0.1	0.0	$\mathcal{S}(y)$
1.00	1.905783	2.032616	2.186517	2.359897	2.538975	2.718282	.367879
1.01	1.919739	2.048591	2.204999	2.381251	2.563310	2.745601	.372285
1.02	1.933822	2.064713	2.223657	2.402812	2.587885	2.773195	.376714
1.03	1.948032	2.080985	2.242490	2.424581	2.612703	2.801066	.381165
1.04	1.962372	2.097407	2.261503	2.446562	2.637767	2.829217	.385640
1.05	1.976842	2.113980	2.280695	2.468757	2.663078	2.857651	.390138
1.06	1.991443	2.130707	2.300068	2.491166	2.688641	2.886371	.394661
1.07	2.006177	2.147588	2.319625	2.513793	2.714456	2.915379	.399207
1.08	2.021044	2.164626	2.339367	2.536639	2.740526	2.944680	.403778
1.09	2.036046	2.181820	2.359296	2.559707	2.766855	2.974274	.408374
1.10	2.051183	2.199174	2.379414	2.582998	2.793444	3.004166	.412994
1.11	2.066458	2.216687	2.399721	2.606515	2.820296	3.034358	.417640
1.12	2.081871	2.234362	2.420221	2.630260	2.847414	3.064854	.422312
1.13	2.097424	2.252201	2.440914	2.654236	2.874800	3.095657	.427009
1.14	2.113117	2.270203	2.461803	2.678443	2.902457	3.126768	.431733
1.15	2.128953	2.288372	2.482889	2.702886	2.930388	3.158193	.436483
1.16	2.144931	2.306709	2.504175	2.727565	2.958595	3.189933	.441260
1.17	2.161054	2.325214	2.525662	2.752483	2.987081	3.221993	.446064
1.18	2.177322	2.343890	2.547352	2.777643	3.015849	3.254374	.450896
1.19	2.193738	2.362738	2.569247	2.803047	3.044902	3.287081	.455755
1.20	2.210302	2.381760	2.591349	2.828697	3.074242	3.320117	.460643
1.21	2.227015	2.400957	2.613659	2.854595	3.103872	3.353485	.465558
1.22	2.243879	2.420331	2.636181	2.880745	3.133795	3.387188	.470503
1.23	2.260896	2.439884	2.658915	2.907147	3.164014	3.421230	.475476
1.24	2.278066	2.459616	2.681864	2.933806	3.194532	3.455613	.480479
1.25	2.295391	2.479530	2.705029	2.960723	3.225352	3.490343	.485511
1.26	2.312872	2.499628	2.728414	2.987901	3.256477	3.525421	.490573
1.27	2.330511	2.519910	2.752019	3.015342	3.287910	3.560853	.495666
1.28	2.348308	2.540379	2.775847	3.043048	3.319654	3.596640	.500789
1.29	2.366266	2.561037	2.799900	3.071024	3.351712	3.632787	.505943
1.30	2.384386	2.581885	2.824180	3.099270	3.384086	3.669297	.511128
1.31	2.402670	2.602924	2.848690	3.127790	3.416781	3.706174	.516345
1.32	2.421117	2.624157	2.873430	3.156586	3.449800	3.743421	.521593
1.33	2.439732	2.645586	2.898405	3.185661	3.483145	3.781043	.526874
1.34	2.458513	2.667211	2.923615	3.215018	3.516820	3.819044	.532188
1.35	2.477464	2.689036	2.949063	3.244659	3.550828	3.857426	.537535
1.36	2.496585	2.711061	2.974751	3.274587	3.585172	3.896193	.542914
1.37	2.515879	2.733289	3.000682	3.304805	3.619856	3.935351	.548328
1.38	2.535346	2.755721	3.026857	3.335316	3.654883	3.974902	.553775
1.39	2.554988	2.778359	3.053280	3.366122	3.690257	4.014850	.559257
1.40	2.574807	2.801206	3.079952	3.397227	3.725981	4.055200	.564774
1.41	2.594804	2.824263	3.106875	3.428633	3.762057	4.095955	.570325
1.42	2.614981	2.847531	3.134053	3.460343	3.798491	4.137120	.575912
1.43	2.635339	2.871014	3.161487	3.492361	3.835285	4.178699	.581535
1.44	2.655881	2.894712	3.189180	3.524688	3.872443	4.220696	.587194
1.45	2.676607	2.918628	3.217135	3.557329	3.909969	4.263115	.592889
1.46	2.697520	2.942764	3.245353	3.590286	3.947865	4.305960	.598621
1.47	2.718620	2.967122	3.273837	3.623562	3.986137	4.349235	.604391
1.48	2.739910	2.991703	3.302591	3.657160	4.024787	4.392946	.610198
1.49	2.761392	3.016510	3.331615	3.691084	4.063820	4.437096	.616043
1.50	2.783066	3.041546	3.360914	3.725336	4.103238	4.481689	.621927

Table of  $Q(y, \frac{1}{4})$  and  $S(y)$ 

$y \frac{1}{4}$	0.5	0.4	0.3	0.2	0.1	0.0	$S(y)$
1.50	2.783066	3.041546	3.360914	3.725336	4.103238	4.481689	.621927
1.51	2.804935	3.066811	3.390488	3.759920	4.143047	4.526731	.627849
1.52	2.827001	3.092309	3.420342	3.794840	4.183249	4.572225	.633810
1.53	2.849265	3.118041	3.450478	3.830097	4.223849	4.618177	.639811
1.54	2.871729	3.144009	3.480898	3.865696	4.264850	4.664590	.645852
1.55	2.894395	3.170216	3.511605	3.901639	4.306257	4.711470	.651934
1.56	2.917264	3.196663	3.542602	3.937931	4.348074	4.758821	.658056
1.57	2.940339	3.223354	3.573891	3.974575	4.390304	4.806648	.664219
1.58	2.963620	3.250289	3.605476	4.011573	4.432952	4.854956	.670423
1.59	2.987111	3.277473	3.637358	4.048930	4.476022	4.903749	.676670
1.60	3.010813	3.304906	3.669542	4.086648	4.519518	4.953032	.682959
1.61	3.034728	3.332590	3.702029	4.124732	4.563445	5.002811	.689291
1.62	3.058857	3.360530	3.734822	4.163185	4.607806	5.053090	.695666
1.63	3.083203	3.388726	3.767925	4.202011	4.652605	5.103875	.702084
1.64	3.107768	3.417180	3.801341	4.241212	4.697848	5.155170	.708547
1.65	3.132553	3.445897	3.835072	4.280794	4.743539	5.206980	.715054
1.66	3.157561	3.474877	3.869121	4.320759	4.789681	5.259311	.721606
1.67	3.182793	3.504123	3.903491	4.361111	4.836280	5.312168	.728203
1.68	3.208251	3.533638	3.938186	4.401854	4.883340	5.365556	.734846
1.69	3.233939	3.563424	3.973208	4.442991	4.930865	5.419481	.741536
1.70	3.259856	3.593484	4.008561	4.484528	4.978861	5.473947	.748271
1.71	3.286007	3.623820	4.044247	4.526466	5.027332	5.528961	.755054
1.72	3.312392	3.654434	4.080270	4.568811	5.076282	5.584528	.761885
1.73	3.339014	3.685330	4.116633	4.611567	5.125716	5.640654	.768763
1.74	3.365875	3.716510	4.153340	4.654736	5.175640	5.697343	.775690
1.75	3.392977	3.747976	4.190393	4.698324	5.226057	5.754603	.782666
1.76	3.420322	3.779731	4.227795	4.742335	5.276973	5.812437	.789691
1.77	3.447912	3.811778	4.265551	4.786771	5.328394	5.870853	.796766
1.78	3.475751	3.844119	4.303663	4.831639	5.380322	5.929856	.803892
1.79	3.503839	3.876758	4.342135	4.876941	5.432765	5.989452	.811068
1.80	3.532179	3.909696	4.380970	4.922682	5.485727	6.049647	.818296
1.81	3.560774	3.942937	4.420171	4.968867	5.539212	6.110447	.825575
1.82	3.589625	3.976483	4.459743	5.015499	5.593227	6.171858	.832906
1.83	3.618736	4.010338	4.499688	5.062583	5.647776	6.233887	.840290
1.84	3.648107	4.044504	4.540011	5.110124	5.702866	6.296538	.847728
1.85	3.677742	4.078984	4.580714	5.158125	5.758500	6.359820	.855219
1.86	3.707644	4.113781	4.621801	5.206592	5.814685	6.423737	.862764
1.87	3.737813	4.148897	4.663277	5.255528	5.871425	6.488296	.870364
1.88	3.768254	4.184336	4.705144	5.304939	5.928728	6.553505	.878019
1.89	3.798968	4.220101	4.747407	5.354828	5.986597	6.619369	.885730
1.90	3.829958	4.256195	4.790068	5.405202	6.045039	6.685894	.893498
1.91	3.861225	4.292620	4.833133	5.456064	6.104060	6.753089	.901322
1.92	3.892774	4.329381	4.876604	5.507418	6.163664	6.820958	.909203
1.93	3.924606	4.366479	4.920486	5.559271	6.223859	6.889510	.917143
1.94	3.956723	4.403918	4.964783	5.611627	6.284649	6.958751	.925140
1.95	3.989129	4.441702	5.009497	5.664490	6.346041	7.028688	.933197
1.96	4.021826	4.479832	5.054635	5.717865	6.408040	7.099327	.941313
1.97	4.054817	4.518314	5.100198	5.771759	6.470653	7.170676	.949489
1.98	4.088104	4.557149	5.146193	5.826174	6.533886	7.242743	.957726
1.99	4.121690	4.596342	5.192621	5.881118	6.597745	7.315534	.966023
2.00	4.155577	4.635895	5.239489	5.936594	6.662236	7.389056	.974383

Table of  $Q(y, 1/4)$  and  $S(y)$ 

$y \backslash 1/4$	0.5	0.4	0.3	0.2	0.1	0.0	$S(y)$
2.00	4.155577	4.635895	5.239489	5.936594	6.662236	7.389056	.974383
2.01	4.189769	4.675811	5.286799	5.992609	6.727365	7.463317	.982804
2.02	4.224268	4.716095	5.334556	6.049166	6.793139	7.538325	.991289
2.03	4.259077	4.756749	5.382765	6.106272	6.859563	7.614086	.999837
2.04	4.294199	4.797777	5.431429	6.163932	6.926646	7.690609	1.008449
2.05	4.329636	4.839183	5.480553	6.222152	6.994392	7.767901	1.017125
2.06	4.365392	4.880970	5.530142	6.280936	7.062810	7.845970	1.025867
2.07	4.401468	4.923141	5.580199	6.340290	7.131904	7.924823	1.034674
2.08	4.437869	4.965700	5.630729	6.400220	7.201682	8.004469	1.043548
2.09	4.474598	5.008650	5.681737	6.460731	7.272152	8.084915	1.052489
2.10	4.511656	5.051996	5.733227	6.521830	7.343319	8.166170	1.061497
2.11	4.549047	5.095741	5.785205	6.583521	7.415190	8.248241	1.070573
2.12	4.586774	5.139888	5.837673	6.645811	7.487773	8.331137	1.079718
2.13	4.624841	5.184442	5.890638	6.708705	7.561075	8.414867	1.088933
2.14	4.663249	5.229406	5.944103	6.772209	7.635102	8.499438	1.098218
2.15	4.702003	5.274784	5.998074	6.836330	7.709862	8.584858	1.107573
2.16	4.741106	5.320579	6.052556	6.901073	7.785363	8.671138	1.117000
2.17	4.780560	5.366796	6.107552	6.966444	7.861611	8.758284	1.126498
2.18	4.820368	5.413439	6.163069	7.032449	7.938614	8.846306	1.136070
2.19	4.860535	5.460511	6.219111	7.099096	8.016380	8.935213	1.145714
2.20	4.901063	5.508016	6.275683	7.166389	8.094915	9.025013	1.155432
2.21	4.941956	5.555959	6.332791	7.234335	8.174229	9.115716	1.165226
2.22	4.983216	5.604344	6.390438	7.302940	8.254327	9.207331	1.175094
2.23	5.024847	5.653174	6.448631	7.372212	8.335219	9.299866	1.185038
2.24	5.066853	5.702454	6.507375	7.442156	8.416912	9.393331	1.195059
2.25	5.109237	5.752188	6.566674	7.512779	8.499414	9.487736	1.205157
2.26	5.152003	5.802381	6.626535	7.584087	8.582733	9.583089	1.215334
2.27	5.195153	5.853035	6.686962	7.656088	8.666878	9.679401	1.225588
2.28	5.238691	5.904157	6.747961	7.728788	8.751855	9.776680	1.235923
2.29	5.282622	5.955749	6.809538	7.802194	8.837674	9.874938	1.246337
2.30	5.326947	6.007817	6.871697	7.876313	8.924343	9.974182	1.256833
2.31	5.371672	6.060365	6.934445	7.951151	9.011871	10.074425	1.267410
2.32	5.416800	6.113398	6.997787	8.026716	9.100266	10.175674	1.278069
2.33	5.462333	6.166919	7.061728	8.103015	9.189536	10.277942	1.288811
2.34	5.508277	6.220933	7.126275	8.180055	9.279690	10.381237	1.299638
2.35	5.554635	6.275446	7.191433	8.257843	9.370737	10.485570	1.310548
2.36	5.601410	6.330461	7.257208	8.336386	9.462686	10.590951	1.321544
2.37	5.648606	6.385984	7.323606	8.415693	9.555546	10.697392	1.332626
2.38	5.696227	6.442018	7.390633	8.495769	9.649326	10.804901	1.343795
2.39	5.744278	6.498570	7.458294	8.576624	9.744035	10.913494	1.355052
2.40	5.792761	6.555643	7.526597	8.658264	9.839682	11.023176	1.366397
2.41	5.841682	6.613242	7.595546	8.740697	9.936276	11.133961	1.377831
2.42	5.891043	6.671373	7.665149	8.823931	10.033828	11.245859	1.389355
2.43	5.940849	6.730041	7.735411	8.907974	10.132346	11.358882	1.400969
2.44	5.991104	6.789249	7.806339	8.992833	10.231840	11.473041	1.412676
2.45	6.041812	6.849004	7.877939	9.078517	10.332319	11.588347	1.424474
2.46	6.092977	6.909310	7.950217	9.165033	10.433795	11.704812	1.436366
2.47	6.144603	6.970174	8.023181	9.252390	10.536275	11.822447	1.448352
2.48	6.196695	7.031598	8.096836	9.340596	10.639771	11.941264	1.460433
2.49	6.249257	7.093590	8.171189	9.429659	10.744293	12.061276	1.472610
2.50	6.302292	7.156154	8.246246	9.519588	10.849850	12.182494	1.484883

Table of  $Q(y, 1/4)$  and  $S(y)$ 

$y \backslash 1/4$	0.5	0.4	0.3	0.2	0.1	0.0	$S(y)$
2.50	6.302292	7.156154	8.246246	9.519588	10.849850	12.182494	1.484883
2.51	6.355807	7.219296	8.322016	9.610391	10.956453	12.304930	1.497254
2.52	6.409803	7.283021	8.398503	9.702076	11.064112	12.428597	1.509723
2.53	6.464287	7.347334	8.475716	9.794653	11.172839	12.553506	1.522291
2.54	6.519263	7.412242	8.553661	9.888129	11.282642	12.679671	1.534959
2.55	6.574735	7.477749	8.632345	9.982514	11.393534	12.807104	1.547728
2.56	6.630707	7.543861	8.711775	10.077817	11.505525	12.935817	1.560599
2.57	6.687185	7.610583	8.791958	10.174046	11.618626	13.065824	1.573572
2.58	6.744172	7.677923	8.872902	10.271211	11.732847	13.197138	1.586650
2.59	6.801674	7.745884	8.954613	10.369321	11.848200	13.329772	1.599831
2.60	6.859695	7.814473	9.037100	10.468384	11.964697	13.463738	1.613119
2.61	6.918240	7.883697	9.120369	10.568411	12.082348	13.599051	1.626512
2.62	6.977313	7.953560	9.204428	10.669410	12.201166	13.735724	1.640014
2.63	7.036920	8.024069	9.289285	10.771392	12.321161	13.873770	1.653623
2.64	7.097066	8.095229	9.374946	10.874365	12.442345	14.013204	1.667342
2.65	7.157755	8.167048	9.461421	10.978340	12.564731	14.154039	1.681171
2.66	7.218992	8.239530	9.548716	11.083326	12.688329	14.296289	1.695111
2.67	7.280783	8.312683	9.636840	11.189334	12.813153	14.439969	1.709163
2.68	7.343131	8.386513	9.725800	11.296372	12.939214	14.585093	1.723328
2.69	7.406044	8.461025	9.815604	11.404452	13.066525	14.731676	1.737608
2.70	7.469525	8.536226	9.906261	11.513583	13.195097	14.879732	1.752003
2.71	7.533580	8.612123	9.997779	11.623776	13.324945	15.029276	1.766514
2.72	7.598214	8.688722	10.090165	11.735040	13.456079	15.180322	1.781142
2.73	7.663433	8.766030	10.183429	11.847388	13.588514	15.332887	1.795889
2.74	7.729241	8.844054	10.277578	11.960828	13.722261	15.486985	1.810755
2.75	7.795644	8.922799	10.372621	12.075372	13.857335	15.642632	1.825741
2.76	7.862649	9.002273	10.468567	12.191031	13.993747	15.799843	1.840849
2.77	7.930259	9.082483	10.565424	12.307815	14.131513	15.958634	1.856079
2.78	7.998481	9.163435	10.663201	12.425736	14.270644	16.119021	1.871433
2.79	8.067320	9.245137	10.761907	12.544805	14.411154	16.281020	1.886911
2.80	8.136782	9.327595	10.861550	12.665032	14.553058	16.444647	1.902515
2.81	8.206873	9.410817	10.962141	12.786429	14.696369	16.609918	1.918247
2.82	8.277599	9.494809	11.063686	12.909008	14.841100	16.776851	1.934106
2.83	8.348964	9.579579	11.166197	13.032781	14.987267	16.945461	1.950094
2.84	8.420976	9.665135	11.269682	13.157758	15.134883	17.115766	1.966212
2.85	8.493640	9.751483	11.374150	13.283951	15.283964	17.287782	1.982462
2.86	8.566962	9.838630	11.479611	13.411374	15.434522	17.461527	1.998845
2.87	8.640947	9.926586	11.586074	13.540036	15.586573	17.637018	2.015361
2.88	8.715604	10.015356	11.693549	13.669952	15.740133	17.814273	2.032012
2.89	8.790936	10.104949	11.802046	13.801132	15.895215	17.993310	2.048799
2.90	8.866951	10.195372	11.911575	13.933590	16.051835	18.174145	2.065723
2.91	8.943654	10.286634	12.022144	14.067338	16.210009	18.356799	2.082786
2.92	9.021053	10.378741	12.133765	14.202388	16.369751	18.541287	2.099989
2.93	9.099154	10.471702	12.246448	14.338753	16.531078	18.727630	2.117333
2.94	9.177962	10.565525	12.360201	14.476446	16.694005	18.915846	2.134818
2.95	9.257485	10.660218	12.475037	14.615481	16.858547	19.105954	2.152448
2.96	9.337728	10.755790	12.590965	14.755869	17.024722	19.297972	2.170222
2.97	9.418700	10.852247	12.707995	14.897625	17.192545	19.491920	2.188142
2.98	9.500405	10.949599	12.826139	15.040762	17.362033	19.687817	2.206209
2.99	9.582852	11.047855	12.945407	15.185293	17.533202	19.885682	2.224425
3.00	9.666047	11.147021	13.065809	15.331232	17.706069	20.085537	2.242790

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$T^*(y)$
.00	.000000	.049917	.099340	.147803	.194884	.240229	-1.000000
.01	.005000	.054926	.104376	.152880	.200018	.245434	-.999950
.02	.010000	.059939	.109417	.157965	.205162	.250651	-.999800
.03	.015001	.064954	.114463	.163059	.210318	.255882	-.999550
.04	.020003	.069973	.119515	.168160	.215483	.261126	-.999200
.05	.025005	.074995	.124573	.173270	.220660	.266383	-.998749
.06	.030009	.080021	.129638	.178389	.225848	.271654	-.998198
.07	.035014	.085051	.134709	.183517	.231048	.276940	-.997547
.08	.040021	.090085	.139787	.188654	.236260	.282240	-.996795
.09	.045030	.095124	.144871	.193801	.241484	.287554	-.995942
.10	.050042	.100167	.149963	.198957	.246720	.292883	-.994987
.11	.055055	.105215	.155063	.204124	.251969	.298228	-.993932
.12	.060072	.110269	.160170	.209301	.257230	.303588	-.992774
.13	.065092	.115328	.165286	.214489	.262505	.308964	-.991514
.14	.070114	.120393	.170410	.219688	.267794	.314357	-.990152
.15	.075141	.125464	.175542	.224897	.273096	.319765	-.988687
.16	.080171	.130542	.180683	.230119	.278412	.325190	-.987118
.17	.085205	.135626	.185834	.235351	.283743	.330632	-.985445
.18	.090243	.140716	.190994	.240596	.289088	.336091	-.983669
.19	.095286	.145814	.196163	.245853	.294448	.341568	-.981787
.20	.100334	.150919	.201342	.251123	.299823	.347063	-.979800
.21	.105386	.156032	.206532	.256405	.305214	.352576	-.977706
.22	.110444	.161152	.211731	.261701	.310620	.358107	-.975506
.23	.115508	.166281	.216942	.267010	.316042	.363656	-.973199
.24	.120577	.171418	.222163	.272332	.321481	.369225	-.970784
.25	.125652	.176563	.227396	.277668	.326936	.374813	-.968260
.26	.130734	.181718	.232640	.283018	.332408	.380421	-.965627
.27	.135822	.186881	.237896	.288383	.337897	.386048	-.962883
.28	.140917	.192054	.243164	.293762	.343403	.391696	-.960028
.29	.146019	.197237	.248444	.299157	.348927	.397364	-.957062
.30	.151128	.202429	.253737	.304567	.354469	.403053	-.953982
.31	.156245	.207632	.259043	.309992	.360030	.408762	-.950789
.32	.161370	.212845	.264361	.315433	.365609	.414494	-.947482
.33	.166503	.218069	.269693	.320890	.371206	.420247	-.944059
.34	.171644	.223303	.275039	.326363	.376823	.426022	-.940519
.35	.176794	.228549	.280399	.331853	.382460	.431819	-.936861
.36	.181952	.233807	.285773	.337350	.388116	.437639	-.933085
.37	.187120	.239076	.291161	.342885	.393792	.443481	-.929189
.38	.192297	.244357	.296564	.348426	.399489	.449347	-.925173
.39	.197484	.249651	.301982	.353986	.405206	.455237	-.921034
.40	.202681	.254957	.307415	.359564	.410944	.461150	-.916772
.41	.207888	.260276	.312854	.365160	.416703	.467088	-.912385
.42	.213105	.265608	.318329	.370775	.422484	.473050	-.907872
.43	.218333	.270954	.323810	.376408	.428287	.479037	-.903232
.44	.223572	.276313	.329308	.382061	.434112	.485049	-.898464
.45	.228823	.281686	.334822	.387734	.439960	.491087	-.893566
.46	.234084	.287074	.340353	.393426	.445830	.497150	-.888537
.47	.239358	.292476	.345901	.399139	.451724	.503240	-.883375
.48	.244644	.297892	.351467	.404872	.457640	.509356	-.878079
.49	.249941	.303324	.357051	.410626	.463581	.515499	-.872647
.50	.255252	.308771	.362653	.416401	.469546	.521668	-.867078

$$R(y, \varphi) = R^*(y, \varphi) + \frac{1-\varphi^2}{2} U(\varphi/k)$$

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

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$T(y)$
.50	2.255252	2.008081	1.864420	1.768861	1.701305	1.651949	-3.468313
.51	2.221360	1.984551	1.846515	1.754732	1.689978	1.642833	-3.311690
.52	2.188989	1.962024	1.829378	1.741232	1.679187	1.634188	-3.163914
.53	2.158054	1.940449	1.812975	1.728334	1.668911	1.625994	-3.024321
.54	2.128477	1.919781	1.797270	1.716011	1.659127	1.618232	-2.892310
.55	2.100184	1.899975	1.782234	1.704240	1.649815	1.610885	-2.767332
.56	2.073109	1.880992	1.767836	1.692996	1.640956	1.603936	-2.648887
.57	2.047186	1.862793	1.754049	1.682258	1.632531	1.597372	-2.536519
.58	2.022359	1.845343	1.740846	1.672005	1.624525	1.591177	-2.429809
.59	1.998573	1.828608	1.728204	1.662219	1.616921	1.585338	-2.328376
.60	1.975775	1.812558	1.716100	1.652880	1.609704	1.579842	-2.231870
.61	1.953920	1.797163	1.704512	1.643973	1.602860	1.574677	-2.139967
.62	1.932962	1.782395	1.693419	1.635480	1.596376	1.569832	-2.052371
.63	1.912859	1.768228	1.682803	1.627387	1.590239	1.565296	-1.968809
.64	1.893573	1.754639	1.672646	1.619680	1.584437	1.561059	-1.889029
.65	1.875067	1.741603	1.662929	1.612343	1.578959	1.557111	-1.812799
.66	1.857306	1.729099	1.653638	1.605366	1.573795	1.553444	-1.739902
.67	1.840258	1.717107	1.644757	1.598735	1.568933	1.550048	-1.670140
.68	1.823893	1.705607	1.636270	1.592439	1.564365	1.546915	-1.603328
.69	1.808182	1.694580	1.628166	1.586467	1.560082	1.544039	-1.539294
.70	1.793099	1.684010	1.620430	1.580809	1.556074	1.541410	-1.477878
.71	1.778617	1.673879	1.613050	1.575454	1.552334	1.539023	-1.418934
.72	1.764712	1.664172	1.606014	1.570394	1.548853	1.536871	-1.362322
.73	1.751363	1.654875	1.599312	1.565619	1.545625	1.534947	-1.307914
.74	1.738547	1.645973	1.592932	1.561121	1.542643	1.533246	-1.255589
.75	1.726244	1.637452	1.586865	1.556891	1.539898	1.531761	-1.205237
.76	1.714436	1.629301	1.581101	1.552923	1.537386	1.530487	-1.156751
.77	1.703103	1.621507	1.575631	1.549209	1.535101	1.529420	-1.110035
.78	1.692230	1.614059	1.570447	1.545741	1.533035	1.528553	-1.064996
.79	1.681798	1.606945	1.565539	1.542514	1.531184	1.527883	-1.021547
.80	1.671794	1.600155	1.560900	1.539520	1.529543	1.527405	-.979610
.81	1.662201	1.593680	1.556523	1.536754	1.528106	1.527115	-.939107
.82	1.653007	1.587509	1.552400	1.534211	1.526869	1.527008	-.899967
.83	1.644198	1.581635	1.548524	1.531883	1.525826	1.527081	-.862124
.84	1.635760	1.576048	1.544889	1.529767	1.524975	1.527330	-.825515
.85	1.627683	1.570740	1.541489	1.527857	1.524310	1.527751	-.790079
.86	1.619955	1.565703	1.538318	1.526148	1.523827	1.528341	-.755763
.87	1.612565	1.560930	1.535369	1.524635	1.523523	1.529097	-.722511
.88	1.605501	1.556414	1.532638	1.523315	1.523394	1.530015	-.690276
.89	1.598756	1.552147	1.530119	1.522183	1.523436	1.531093	-.659010
.90	1.592318	1.548124	1.527808	1.521235	1.523646	1.532328	-.628668
.91	1.586180	1.544337	1.525699	1.520468	1.524022	1.533717	-.599209
.92	1.580331	1.540782	1.523787	1.519876	1.524559	1.535258	-.570593
.93	1.574765	1.537452	1.522069	1.519458	1.525255	1.536948	-.542782
.94	1.569473	1.534342	1.520540	1.519209	1.526107	1.538784	-.515741
.95	1.564448	1.531447	1.519196	1.519126	1.527113	1.540765	-.489435
.96	1.559682	1.528761	1.518034	1.519207	1.528269	1.542889	-.463834
.97	1.555169	1.526279	1.517049	1.519447	1.529574	1.545152	-.438905
.98	1.550902	1.523998	1.516238	1.519845	1.531025	1.547554	-.414622
.99	1.546874	1.521912	1.515598	1.520397	1.532619	1.550092	-.390955
1.00	1.543081	1.520018	1.515125	1.521102	1.534355	1.552765	-.367879

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$\mathcal{T}(y)$
1.00	1.513081	1.520018	1.515125	1.521102	1.531355	1.552765	-.367879
1.01	1.539515	1.518311	1.511816	1.521955	1.536231	1.555571	-.315370
1.02	1.536171	1.516788	1.511668	1.522956	1.538214	1.558508	-.323103
1.03	1.533045	1.515144	1.511679	1.521102	1.510393	1.561574	-.301957
1.04	1.530131	1.514276	1.5114845	1.525389	1.512675	1.564769	-.281009
1.05	1.527123	1.513280	1.515161	1.526817	1.515090	1.568090	-.260510
1.06	1.521918	1.512154	1.515633	1.528381	1.517635	1.571537	-.240529
1.07	1.522611	1.511794	1.516250	1.530086	1.550309	1.575108	-.220959
1.08	1.520198	1.511297	1.517013	1.531923	1.553110	1.578801	-.201811
1.09	1.518574	1.510960	1.517918	1.533893	1.556037	1.582616	-.183069
1.10	1.516835	1.510780	1.518965	1.535994	1.559089	1.586552	-.164716
1.11	1.515278	1.510755	1.520150	1.538223	1.562263	1.590607	-.146737
1.12	1.513899	1.510881	1.521173	1.510581	1.565560	1.591781	-.129118
1.13	1.512695	1.511157	1.522930	1.513065	1.568977	1.599071	-.111843
1.14	1.511661	1.511580	1.524521	1.515673	1.572513	1.603179	-.094900
1.15	1.510796	1.512117	1.526213	1.518105	1.576168	1.608002	-.078276
1.16	1.510095	1.512857	1.528095	1.551258	1.579911	1.612610	-.061958
1.17	1.509555	1.513706	1.530075	1.554232	1.583829	1.617391	-.045934
1.18	1.509175	1.514695	1.532181	1.557326	1.587833	1.622256	-.030193
1.19	1.508951	1.515819	1.534112	1.560538	1.591952	1.627231	-.014723
1.20	1.508880	1.517077	1.536767	1.563868	1.596181	1.632323	.000485
1.21	1.508959	1.518469	1.539214	1.567313	1.600528	1.637524	.015111
1.22	1.509188	1.519990	1.511812	1.570873	1.604985	1.642835	.030157
1.23	1.509562	1.521611	1.511560	1.574518	1.609553	1.648257	.0441610
1.24	1.510080	1.523119	1.5117395	1.578336	1.614231	1.653787	.058899
1.25	1.510739	1.525324	1.550318	1.582236	1.619020	1.659128	.072914
1.26	1.511538	1.527352	1.553118	1.586218	1.623917	1.665176	.086782
1.27	1.512474	1.529503	1.556602	1.590370	1.628923	1.671033	.100122
1.28	1.513546	1.531776	1.559900	1.594602	1.634038	1.676998	.113871
1.29	1.514751	1.534170	1.563311	1.598914	1.639259	1.683070	.127137
1.30	1.516088	1.536682	1.566835	1.603394	1.644588	1.689219	.140227
1.31	1.517555	1.539312	1.570169	1.607952	1.650024	1.695536	.153117
1.32	1.519150	1.542058	1.574214	1.612617	1.655565	1.701928	.165904
1.33	1.520872	1.544920	1.578069	1.617389	1.661213	1.708127	.178504
1.34	1.522720	1.547897	1.582032	1.622267	1.666966	1.715033	.190955
1.35	1.524691	1.550987	1.586103	1.627250	1.672824	1.721714	.203260
1.36	1.526785	1.554189	1.590282	1.632339	1.678786	1.728560	.215428
1.37	1.528999	1.557503	1.594568	1.637532	1.684853	1.735183	.227462
1.38	1.531333	1.560927	1.598959	1.642830	1.691025	1.7412510	.239368
1.39	1.533786	1.564461	1.603156	1.648231	1.697300	1.749614	.251152
1.40	1.536356	1.568104	1.608058	1.653736	1.703679	1.756882	.262818
1.41	1.539042	1.571855	1.612765	1.659314	1.710161	1.764225	.274372
1.42	1.541843	1.575714	1.617575	1.665055	1.716747	1.771674	.285817
1.43	1.544758	1.579679	1.622489	1.670869	1.723436	1.779228	.297159
1.44	1.547786	1.583750	1.627506	1.676785	1.730229	1.786887	.308401
1.45	1.550926	1.587927	1.632625	1.682802	1.737124	1.794652	.319519
1.46	1.554177	1.592208	1.637847	1.688922	1.744122	1.802521	.330606
1.47	1.557538	1.596594	1.643170	1.695143	1.751223	1.810496	.341576
1.48	1.561008	1.601083	1.648595	1.701466	1.758427	1.818576	.352464
1.49	1.564587	1.605675	1.654121	1.707889	1.765734	1.826762	.363272
1.50	1.568273	1.610370	1.659748	1.714415	1.773144	1.835053	.374001

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

$y \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$T(y)$
1.50	1.568273	1.610370	1.659748	1.714415	1.773144	1.835053	.374004
1.51	1.572066	1.615167	1.665475	1.721041	1.780656	1.843450	.384665
1.52	1.575966	1.620066	1.671303	1.727768	1.788272	1.851954	.395257
1.53	1.579971	1.625067	1.677231	1.734596	1.795990	1.860563	.405784
1.54	1.584082	1.630168	1.683260	1.741525	1.803812	1.869278	.416249
1.55	1.588296	1.635370	1.689388	1.748554	1.811736	1.878100	.426655
1.56	1.592615	1.640672	1.695615	1.755685	1.819764	1.887029	.437005
1.57	1.597036	1.646074	1.701942	1.762916	1.827896	1.896064	.447303
1.58	1.601560	1.651576	1.708369	1.770248	1.836131	1.905207	.457551
1.59	1.606187	1.657178	1.714895	1.777681	1.844469	1.914458	.467751
1.60	1.610915	1.662878	1.721520	1.785215	1.852912	1.923816	.477908
1.61	1.615745	1.668678	1.728245	1.792851	1.861458	1.933282	.488023
1.62	1.620676	1.674577	1.735068	1.800587	1.870109	1.942857	.498099
1.63	1.625707	1.680574	1.741991	1.808424	1.878865	1.952540	.508138
1.64	1.630838	1.686670	1.749013	1.816363	1.887725	1.962333	.518144
1.65	1.636070	1.692864	1.756135	1.824404	1.896690	1.972235	.528118
1.66	1.641401	1.699156	1.763355	1.832546	1.905761	1.982247	.538063
1.67	1.646831	1.705547	1.770675	1.840790	1.914937	1.992369	.547982
1.68	1.652360	1.712036	1.778094	1.849137	1.924219	2.002601	.557876
1.69	1.657988	1.718622	1.785613	1.857585	1.933607	2.012945	.567747
1.70	1.663715	1.725307	1.793231	1.866136	1.943102	2.023401	.577598
1.71	1.669540	1.732090	1.800949	1.874790	1.952704	2.033968	.587431
1.72	1.675464	1.738971	1.808767	1.883547	1.962413	2.044647	.597249
1.73	1.681485	1.745950	1.816685	1.892407	1.972229	2.055440	.607052
1.74	1.687605	1.753028	1.824703	1.901371	1.982154	2.066346	.616843
1.75	1.693822	1.760203	1.832821	1.910438	1.992187	2.077365	.626624
1.76	1.700137	1.767477	1.841040	1.919610	2.002329	2.088499	.636397
1.77	1.706550	1.774848	1.849360	1.928886	2.012581	2.099748	.646164
1.78	1.713060	1.782319	1.857781	1.938267	2.022941	2.111113	.655926
1.79	1.719668	1.789888	1.866302	1.947754	2.033413	2.122593	.665686
1.80	1.726374	1.797555	1.874926	1.957346	2.043994	2.134190	.675445
1.81	1.733177	1.805322	1.883651	1.967043	2.054687	2.145904	.685204
1.82	1.740078	1.813187	1.892478	1.976847	2.065492	2.157736	.694966
1.83	1.747077	1.821151	1.901408	1.986758	2.076408	2.169686	.704732
1.84	1.754173	1.829215	1.910440	1.996776	2.087437	2.181755	.714504
1.85	1.761367	1.837379	1.919575	2.006902	2.098579	2.193943	.724284
1.86	1.768658	1.845642	1.928813	2.017135	2.109835	2.206252	.734072
1.87	1.776048	1.854005	1.938156	2.027477	2.121206	2.218682	.743871
1.88	1.783536	1.862468	1.947602	2.037928	2.132691	2.231233	.753682
1.89	1.791122	1.871032	1.957152	2.048489	2.144291	2.243906	.763506
1.90	1.798806	1.879697	1.966807	2.059159	2.156007	2.256703	.773346
1.91	1.806589	1.888463	1.976568	2.069939	2.167840	2.269622	.783202
1.92	1.814470	1.897330	1.986434	2.080831	2.179790	2.282666	.793076
1.93	1.822450	1.906299	1.996406	2.091834	2.191858	2.295835	.802969
1.94	1.830530	1.915370	2.006484	2.102949	2.204044	2.309130	.812883
1.95	1.838708	1.924543	2.016670	2.114176	2.216350	2.322552	.822820
1.96	1.846986	1.933819	2.026962	2.125517	2.228775	2.336100	.832780
1.97	1.855364	1.943198	2.037363	2.136971	2.241320	2.349777	.842764
1.98	1.863841	1.952681	2.047872	2.148539	2.253987	2.363582	.852775
1.99	1.872419	1.962267	2.058489	2.160222	2.266775	2.377517	.862814
2.00	1.881098	1.971958	2.069216	2.172021	2.279686	2.391582	.872881



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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$\mathcal{T}(y)$
2.00	1.881098	1.971958	2.069216	2.172021	2.279686	2.391582	.872881
2.01	1.889877	1.981753	2.080053	2.183936	2.292720	2.405779	.882979
2.02	1.898758	1.991654	2.091000	2.195967	2.305878	2.420107	.893108
2.03	1.907739	2.001659	2.102058	2.208116	2.319161	2.434569	.903269
2.04	1.916823	2.011771	2.113227	2.220382	2.332569	2.449164	.913464
2.05	1.926009	2.021990	2.124509	2.232768	2.346103	2.463893	.923695
2.06	1.935297	2.032315	2.135903	2.245272	2.359765	2.478759	.933962
2.07	1.944688	2.042747	2.147410	2.257897	2.373554	2.493760	.944266
2.08	1.954182	2.053288	2.159031	2.270642	2.387471	2.508899	.954609
2.09	1.963780	2.063936	2.170766	2.283509	2.401518	2.524176	.964992
2.10	1.973482	2.074694	2.182616	2.296497	2.415695	2.539592	.975416
2.11	1.983289	2.085561	2.194582	2.309609	2.430003	2.555148	.985883
2.12	1.993200	2.096538	2.206664	2.322844	2.444443	2.570845	.996393
2.13	2.003217	2.107626	2.218863	2.336203	2.459016	2.586684	1.006947
2.14	2.013339	2.118824	2.231180	2.349688	2.473722	2.602666	1.017548
2.15	2.023568	2.130134	2.243614	2.363298	2.488562	2.618792	1.028195
2.16	2.033903	2.141557	2.256168	2.377035	2.503538	2.635063	1.038890
2.17	2.044346	2.153092	2.268841	2.390900	2.518650	2.651479	1.049635
2.18	2.054896	2.164741	2.281635	2.404892	2.533900	2.668043	1.060429
2.19	2.065555	2.176503	2.294549	2.419014	2.549287	2.684754	1.071276
2.20	2.076322	2.188381	2.307586	2.433266	2.564813	2.701615	1.082174
2.21	2.087198	2.200373	2.320745	2.447648	2.580479	2.718625	1.093126
2.22	2.098185	2.212482	2.334027	2.462162	2.596286	2.735787	1.104133
2.23	2.109281	2.224707	2.347433	2.476809	2.612235	2.753100	1.115196
2.24	2.120489	2.237049	2.360964	2.491589	2.628327	2.770567	1.126316
2.25	2.131808	2.249510	2.374620	2.506503	2.6444563	2.788189	1.137494
2.26	2.143239	2.262089	2.388403	2.521552	2.660943	2.805966	1.148730
2.27	2.154783	2.274787	2.402313	2.536737	2.677470	2.823899	1.160027
2.28	2.166440	2.287605	2.416351	2.552059	2.694143	2.841991	1.171385
2.29	2.178211	2.300544	2.430518	2.567519	2.710964	2.860241	1.182806
2.30	2.190096	2.313605	2.444814	2.583118	2.727934	2.878651	1.194290
2.31	2.202097	2.326788	2.459241	2.598856	2.745055	2.897223	1.205838
2.32	2.214213	2.340094	2.473799	2.614735	2.762326	2.915957	1.217451
2.33	2.226446	2.353523	2.488489	2.630756	2.779749	2.934854	1.229132
2.34	2.238796	2.367077	2.503313	2.646920	2.797326	2.953917	1.240880
2.35	2.251264	2.380757	2.518270	2.663227	2.815057	2.973146	1.252696
2.36	2.263850	2.394562	2.533362	2.679679	2.832944	2.992542	1.264583
2.37	2.276555	2.408495	2.548591	2.696277	2.850988	3.012107	1.276540
2.38	2.289381	2.422555	2.563955	2.713022	2.869189	3.031841	1.288569
2.39	2.302327	2.436744	2.579458	2.729914	2.887549	3.051747	1.300672
2.40	2.315395	2.451062	2.595099	2.746955	2.906070	3.071825	1.312848
2.41	2.328584	2.465511	2.610879	2.764146	2.924751	3.092077	1.325099
2.42	2.341897	2.480090	2.626801	2.781488	2.943596	3.112505	1.337426
2.43	2.355333	2.494802	2.642863	2.798983	2.962604	3.133108	1.349831
2.44	2.368894	2.509647	2.659068	2.816630	2.981777	3.153890	1.362314
2.45	2.382580	2.524625	2.675417	2.834432	3.001116	3.174850	1.374876
2.46	2.396392	2.539738	2.691910	2.852389	3.020623	3.195992	1.387519
2.47	2.410330	2.554986	2.708549	2.870503	3.040299	3.217315	1.400243
2.48	2.424397	2.570372	2.725334	2.888775	3.060144	3.238821	1.413050
2.49	2.438592	2.585894	2.742267	2.907205	3.080161	3.260513	1.425940
2.50	2.452916	2.601555	2.759349	2.925796	3.100351	3.282390	1.438915

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

$y \backslash \varphi$	0.0	0.1	0.2	0.3	0.4	0.5	$T(y)$
2.50	2.452916	2.601555	2.759349	2.925796	3.100351	3.282390	1.438915
2.51	2.467370	2.617356	2.776580	2.944548	3.120714	3.304455	1.451976
2.52	2.481956	2.633296	2.793962	2.963462	3.141253	3.326709	1.465124
2.53	2.496673	2.649379	2.811497	2.982540	3.161968	3.349154	1.478360
2.54	2.511523	2.665603	2.829184	3.001783	3.182861	3.371791	1.491685
2.55	2.526507	2.681971	2.847025	3.021192	3.203934	3.394622	1.505100
2.56	2.541625	2.698483	2.865022	3.040769	3.225187	3.417648	1.518606
2.57	2.556879	2.715140	2.883175	3.060514	3.246623	3.440870	1.532204
2.58	2.572270	2.731944	2.901486	3.080430	3.268242	3.464291	1.545896
2.59	2.587798	2.748896	2.919956	3.100516	3.290045	3.487911	1.559683
2.60	2.603464	2.765996	2.938585	3.120775	3.312036	3.511733	1.573565
2.61	2.619269	2.783245	2.957376	3.141209	3.334214	3.535758	1.587544
2.62	2.635215	2.800645	2.976329	3.161817	3.356581	3.559987	1.601620
2.63	2.651302	2.818197	2.995446	3.182602	3.379139	3.584422	1.615796
2.64	2.667531	2.835902	3.014727	3.203565	3.401890	3.609066	1.630072
2.65	2.683904	2.853761	3.034175	3.224707	3.424834	3.633919	1.644449
2.66	2.700421	2.871776	3.053789	3.246030	3.447974	3.658983	1.658929
2.67	2.717083	2.889946	3.073573	3.267535	3.471311	3.684260	1.673512
2.68	2.733891	2.908274	3.093526	3.289223	3.494845	3.709751	1.688199
2.69	2.750847	2.926761	3.113651	3.311097	3.518580	3.735459	1.702993
2.70	2.767951	2.945407	3.133947	3.333156	3.542517	3.761385	1.717893
2.71	2.785205	2.964214	3.154418	3.355404	3.566657	3.787531	1.732902
2.72	2.802610	2.983184	3.175064	3.377841	3.591001	3.813899	1.748020
2.73	2.820166	3.002317	3.195886	3.400469	3.615552	3.840489	1.763248
2.74	2.837875	3.021615	3.216886	3.423289	3.640311	3.867305	1.778588
2.75	2.855738	3.041079	3.238065	3.446303	3.665280	3.894348	1.794041
2.76	2.873756	3.060709	3.259425	3.469512	3.690460	3.921620	1.809608
2.77	2.891931	3.080509	3.280967	3.492918	3.715854	3.949123	1.825291
2.78	2.910262	3.100478	3.302692	3.516523	3.741462	3.976858	1.841089
2.79	2.928753	3.120618	3.324603	3.540327	3.767287	4.004828	1.857006
2.80	2.947403	3.140930	3.346699	3.564333	3.793330	4.033034	1.873041
2.81	2.966214	3.161416	3.368983	3.588543	3.819593	4.061478	1.889197
2.82	2.985187	3.182077	3.391456	3.612957	3.846078	4.090163	1.905473
2.83	3.004324	3.202915	3.414120	3.637577	3.872786	4.119090	1.921873
2.84	3.023625	3.223930	3.436977	3.662406	3.899720	4.148261	1.938396
2.85	3.043092	3.245124	3.460026	3.687445	3.926882	4.177678	1.955044
2.86	3.062727	3.266499	3.483272	3.712695	3.954272	4.207344	1.971819
2.87	2.082529	3.288055	3.506714	3.738158	3.981894	4.237260	1.988721
2.88	3.102501	3.309795	3.530354	3.763836	4.009748	4.267428	2.005753
2.89	3.122645	3.331719	3.554194	3.789730	4.037837	4.297851	2.022914
2.90	3.142960	3.353830	3.578236	3.815843	4.066163	4.328530	2.040207
2.91	3.163449	3.376128	3.602480	3.842176	4.094727	4.359468	2.057633
2.92	3.184113	3.398615	3.626930	3.868731	4.123532	4.390666	2.075193
2.93	3.204954	3.421293	3.651586	3.895509	4.152579	4.422128	2.092888
2.94	3.225971	3.444163	3.676449	3.922513	4.181871	4.453854	2.110721
2.95	3.247168	3.467227	3.701523	3.949744	4.211409	4.485848	2.128691
2.96	3.268546	3.490485	3.726808	3.977204	4.241196	4.518112	2.146801
2.97	3.290105	3.513941	3.752306	4.004896	4.271233	4.550647	2.165052
2.98	3.311847	3.537594	3.778018	4.032820	4.301523	4.583456	2.183445
2.99	3.333774	3.561447	3.803947	4.060979	4.332068	4.616542	2.201981
3.00	3.355887	3.585502	3.830094	4.089374	4.362869	4.649906	2.220663

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

$y \backslash \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$T^*(y)$
.00	.240229	.283559	.324672	.363442	.399812	.433781	-1.000000
.01	.245434	.288846	.330053	.368925	.405404	.439489	-.999950
.02	.250651	.294149	.335451	.374429	.411020	.445222	-.999800
.03	.255882	.299467	.340868	.379953	.416659	.450981	-.999550
.04	.261126	.304801	.346303	.385497	.422320	.456765	-.999200
.05	.266383	.310152	.351756	.391063	.428006	.462576	-.998749
.06	.271654	.315518	.357229	.396651	.433715	.468413	-.998198
.07	.276940	.320901	.362721	.402260	.439449	.474277	-.997547
.08	.282240	.326302	.368232	.407891	.445207	.480168	-.996795
.09	.287554	.331719	.373763	.413545	.450991	.486086	-.995942
.10	.292883	.337154	.379314	.419221	.456799	.492032	-.994987
.11	.298228	.342607	.384886	.424920	.462633	.498006	-.993932
.12	.303588	.348078	.390478	.430643	.468493	.504009	-.992774
.13	.308964	.353567	.396091	.436389	.474379	.510041	-.991514
.14	.314357	.359075	.401726	.442159	.480292	.516101	-.990152
.15	.319765	.364602	.407382	.447953	.486232	.522192	-.988687
.16	.325190	.370149	.413061	.453772	.492199	.528312	-.987118
.17	.330632	.375715	.418761	.459616	.498193	.534462	-.985445
.18	.336091	.381300	.424484	.465486	.504215	.540643	-.983669
.19	.341568	.386906	.430230	.471380	.510266	.546855	-.981787
.20	.347063	.392533	.435999	.477301	.516345	.553098	-.979800
.21	.352576	.398180	.441792	.483248	.522454	.559373	-.977706
.22	.358107	.403849	.447608	.489221	.528591	.565680	-.975506
.23	.363656	.409538	.453449	.495222	.534758	.572020	-.973199
.24	.369225	.415250	.459314	.501249	.540956	.578392	-.970784
.25	.374813	.420983	.465204	.507304	.547183	.584797	-.968260
.26	.380421	.426739	.471119	.513387	.553442	.591236	-.965627
.27	.386048	.432518	.477059	.519499	.559731	.597709	-.962883
.28	.391696	.438319	.483025	.525639	.566052	.604216	-.960028
.29	.397364	.444144	.489017	.531807	.572405	.610758	-.957062
.30	.403053	.449992	.495036	.538006	.578789	.617335	-.953982
.31	.408762	.455864	.501081	.544233	.585207	.623947	-.950789
.32	.414494	.461761	.507154	.550491	.591657	.630595	-.947482
.33	.420247	.467681	.513254	.556780	.598141	.637280	-.944059
.34	.426022	.473627	.519382	.563098	.604658	.644001	-.940519
.35	.431819	.479598	.525538	.569448	.611210	.650759	-.936861
.36	.437639	.485595	.531722	.575830	.617795	.657555	-.933085
.37	.443481	.491617	.537935	.582243	.624416	.664388	-.929189
.38	.449347	.497666	.544177	.588688	.631072	.671260	-.925173
.39	.455237	.503741	.550449	.595166	.637763	.678170	-.921034
.40	.461150	.509842	.556751	.601677	.644491	.685119	-.916772
.41	.467088	.515971	.563082	.608221	.651254	.692108	-.912385
.42	.473050	.522128	.569445	.614799	.658055	.699137	-.907872
.43	.479037	.528312	.575838	.621411	.664893	.706206	-.903232
.44	.485049	.534525	.582263	.628057	.671768	.713316	-.898464
.45	.491087	.540766	.588719	.634738	.678681	.720467	-.893566
.46	.497150	.547036	.595207	.641454	.685633	.727659	-.888537
.47	.503240	.553335	.601728	.648206	.692623	.734894	-.883375
.48	.509356	.559664	.608281	.654993	.699653	.742171	-.878079
.49	.515499	.566023	.614868	.661817	.706722	.749491	-.872647
.50	.521668	.572412	.621488	.668678	.713831	.756855	-.867078

$$R(y, \varphi) = R^*(y, \varphi) + \frac{1+\varphi}{2} U(\frac{1}{2}k)$$

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

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

$y \backslash \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$T(y)$
.50	1.651949	1.615236	1.587702	1.567036	1.551620	1.540277	-3.468313
.51	1.642833	1.607941	1.581950	1.562624	1.548390	1.538105	-3.311690
.52	1.634188	1.601066	1.576580	1.558562	1.545485	1.536238	-3.163914
.53	1.625994	1.594594	1.571576	1.554837	1.542894	1.534664	-3.024321
.54	1.618232	1.588509	1.566924	1.551436	1.540605	1.533375	-2.892310
.55	1.610885	1.582796	1.562611	1.548348	1.538607	1.532359	-2.767332
.56	1.603936	1.577442	1.558626	1.545563	1.536891	1.531609	-2.648887
.57	1.597372	1.572433	1.554955	1.543068	1.535447	1.531116	-2.536519
.58	1.591177	1.567757	1.551588	1.540855	1.534267	1.530871	-2.429809
.59	1.585338	1.563402	1.548516	1.538915	1.533342	1.530868	-2.328376
.60	1.579842	1.559356	1.545727	1.537238	1.532664	1.531099	-2.231870
.61	1.574677	1.555610	1.543214	1.535817	1.532227	1.531558	-2.139967
.62	1.569832	1.552154	1.540967	1.534645	1.532023	1.532238	-2.052371
.63	1.565296	1.548978	1.538978	1.533713	1.532047	1.533134	-1.968809
.64	1.561059	1.546074	1.537240	1.533015	1.532290	1.534240	-1.889029
.65	1.557111	1.543433	1.535744	1.532544	1.532749	1.535551	-1.812799
.66	1.553444	1.541048	1.534486	1.532294	1.533417	1.537062	-1.739902
.67	1.550048	1.538910	1.533456	1.532260	1.534289	1.538768	-1.670140
.68	1.546915	1.537013	1.532651	1.532436	1.535360	1.540665	-1.603328
.69	1.544039	1.535350	1.532062	1.532816	1.536626	1.542748	-1.539294
.70	1.541410	1.533915	1.531686	1.533396	1.538081	1.545013	-1.477878
.71	1.539023	1.532702	1.531516	1.534172	1.539723	1.547458	-1.418934
.72	1.536871	1.531705	1.531548	1.535137	1.541546	1.550077	-1.362322
.73	1.534947	1.530918	1.531777	1.536289	1.543548	1.552869	-1.307914
.74	1.533246	1.530337	1.532198	1.537623	1.545724	1.555828	-1.255589
.75	1.531761	1.529956	1.532807	1.539135	1.548071	1.558954	-1.205237
.76	1.530487	1.529770	1.533600	1.540822	1.550586	1.562242	-1.156751
.77	1.529420	1.529776	1.534573	1.542681	1.553266	1.565690	-1.110035
.78	1.528553	1.529968	1.535721	1.544708	1.556108	1.569295	-1.064996
.79	1.527883	1.530343	1.537043	1.546899	1.559109	1.573055	-1.021547
.80	1.527405	1.530898	1.538533	1.549252	1.562266	1.576968	-.979610
.81	1.527115	1.531627	1.540190	1.551765	1.565577	1.581031	-.939107
.82	1.527008	1.532528	1.542010	1.554434	1.569040	1.585242	-.899967
.83	1.527081	1.533598	1.543989	1.557257	1.572653	1.589600	-.862124
.84	1.527330	1.534833	1.546126	1.560231	1.576413	1.594102	-.825515
.85	1.527751	1.536230	1.548417	1.563354	1.580318	1.598746	-.790079
.86	1.528341	1.537786	1.550861	1.566624	1.584366	1.603532	-.755763
.87	1.529097	1.539498	1.553454	1.570039	1.588556	1.608456	-.722511
.88	1.530015	1.541364	1.556194	1.573597	1.592885	1.613519	-.690276
.89	1.531093	1.543382	1.559080	1.577296	1.597353	1.618718	-.659010
.90	1.532328	1.545548	1.562109	1.581134	1.601957	1.624052	-.628668
.91	1.533717	1.547861	1.565278	1.585110	1.606696	1.629520	-.599209
.92	1.535258	1.550318	1.568587	1.589221	1.611569	1.635120	-.570593
.93	1.536948	1.552917	1.572034	1.593466	1.616575	1.640852	-.542782
.94	1.538784	1.555656	1.575616	1.597844	1.621711	1.646715	-.515741
.95	1.540765	1.558534	1.579332	1.602354	1.626977	1.652707	-.489435
.96	1.542889	1.561548	1.583181	1.606994	1.632373	1.658827	-.463834
.97	1.545152	1.564697	1.587161	1.611762	1.637895	1.665075	-.438905
.98	1.547554	1.567979	1.591270	1.616659	1.643545	1.671449	-.414622
.99	1.550092	1.571392	1.595508	1.621681	1.649321	1.677950	-.390955
1.00	1.552765	1.574935	1.599873	1.626830	1.655221	1.684576	-.367879

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

$y \backslash \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$T(y)$
1.00	1.552765	1.574935	1.599873	1.626830	1.655221	1.684576	-.367879
1.01	1.555571	1.578607	1.604363	1.632102	1.661246	1.691326	-.345370
1.02	1.558508	1.582406	1.608978	1.637498	1.667394	1.698200	-.323403
1.03	1.561574	1.586330	1.613717	1.643017	1.673664	1.705198	-.301957
1.04	1.564769	1.590380	1.618578	1.648658	1.680057	1.712319	-.281009
1.05	1.568090	1.594552	1.623561	1.654419	1.686571	1.719562	-.260540
1.06	1.571537	1.598847	1.628665	1.660301	1.693205	1.726927	-.240529
1.07	1.575108	1.603263	1.633889	1.666302	1.699960	1.734414	-.220959
1.08	1.578801	1.607799	1.639231	1.672423	1.706834	1.742022	-.201811
1.09	1.582616	1.612455	1.644692	1.678661	1.713828	1.749751	-.183069
1.10	1.586552	1.617229	1.650270	1.685017	1.720940	1.757600	-.164716
1.11	1.590607	1.622120	1.655965	1.691491	1.728171	1.765570	-.146737
1.12	1.594781	1.627128	1.661776	1.698081	1.735520	1.773660	-.129118
1.13	1.599071	1.632251	1.667703	1.704787	1.742987	1.781869	-.111843
1.14	1.603479	1.637490	1.673744	1.711610	1.750571	1.790199	-.094900
1.15	1.608002	1.642843	1.679900	1.718547	1.758273	1.798648	-.078276
1.16	1.612640	1.648310	1.686170	1.725600	1.766091	1.807217	-.061958
1.17	1.617391	1.653891	1.692554	1.732768	1.774027	1.815905	-.045934
1.18	1.622256	1.659583	1.699051	1.740050	1.782079	1.824713	-.030193
1.19	1.627234	1.665388	1.705660	1.747447	1.790248	1.833640	-.014723
1.20	1.632323	1.671305	1.712382	1.754957	1.798533	1.842686	.000485
1.21	1.637524	1.677332	1.719216	1.762582	1.806934	1.851852	.015441
1.22	1.642835	1.683471	1.726162	1.770320	1.815452	1.861138	.030157
1.23	1.648257	1.689719	1.733220	1.778172	1.824087	1.870543	.044640
1.24	1.653787	1.696078	1.740388	1.786138	1.832838	1.880069	.058899
1.25	1.659428	1.702546	1.747668	1.794216	1.841705	1.889714	.072944
1.26	1.665176	1.709124	1.755059	1.802409	1.850688	1.899479	.086782
1.27	1.671033	1.715810	1.762560	1.810714	1.859789	1.909365	.100422
1.28	1.676998	1.722605	1.770173	1.819133	1.869006	1.919371	.113871
1.29	1.683070	1.729509	1.777895	1.827666	1.878340	1.929498	.127137
1.30	1.689249	1.736521	1.785729	1.836312	1.887790	1.939746	.140227
1.31	1.695536	1.743642	1.793673	1.845071	1.897358	1.950115	.153147
1.32	1.701928	1.750870	1.801727	1.853944	1.907044	1.960606	.165904
1.33	1.708427	1.758207	1.809892	1.862931	1.916847	1.971219	.178504
1.34	1.715033	1.765651	1.818167	1.872032	1.926768	1.981955	.190955
1.35	1.721744	1.773203	1.826553	1.881247	1.936807	1.992813	.203260
1.36	1.728560	1.780863	1.835050	1.890576	1.946964	2.003794	.215428
1.37	1.735483	1.788631	1.843657	1.900019	1.957240	2.014898	.227462
1.38	1.742510	1.796506	1.852375	1.909577	1.967635	2.026126	.239368
1.39	1.749644	1.804489	1.861204	1.919250	1.978150	2.037479	.251152
1.40	1.756882	1.812580	1.870145	1.929038	1.988784	2.048957	.262818
1.41	1.764225	1.820779	1.879196	1.938941	1.999538	2.060559	.274372
1.42	1.771674	1.829085	1.888359	1.948961	2.010413	2.072288	.285817
1.43	1.779228	1.837500	1.897634	1.959096	2.021408	2.084142	.297159
1.44	1.786887	1.846023	1.907021	1.969347	2.032525	2.096124	.308401
1.45	1.794652	1.854654	1.916520	1.979716	2.043764	2.108232	.319549
1.46	1.802521	1.863393	1.926131	1.990201	2.055125	2.120469	.330606
1.47	1.810496	1.872242	1.935855	2.000804	2.066609	2.132834	.341576
1.48	1.818576	1.881199	1.945692	2.011525	2.078216	2.145328	.352464
1.49	1.826762	1.890265	1.955643	2.022364	2.089947	2.157952	.363272
1.50	1.835053	1.899440	1.965707	2.033321	2.101802	2.170706	.374004

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

$y \backslash \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$T(y)$
1.50	1.835053	1.899140	1.965707	2.033321	2.101802	2.170706	.374004
1.51	1.843450	1.908725	1.975885	2.041398	2.113781	2.183591	.384665
1.52	1.851954	1.918120	1.986178	2.055595	2.125887	2.196608	.395257
1.53	1.860563	1.927625	1.996585	2.066911	2.138118	2.209756	.405784
1.54	1.869278	1.937240	2.007108	2.078348	2.150475	2.223038	.416249
1.55	1.878100	1.946966	2.017746	2.089907	2.162960	2.236453	.426655
1.56	1.887029	1.956803	2.028500	2.101587	2.175573	2.250003	.437005
1.57	1.896064	1.966752	2.039371	2.113389	2.188314	2.263688	.447303
1.58	1.905207	1.976812	2.050358	2.125314	2.201184	2.277509	.457551
1.59	1.914458	1.986984	2.061463	2.137362	2.214184	2.291466	.467751
1.60	1.923816	1.997269	2.072686	2.149534	2.227314	2.305561	.477908
1.61	1.933282	2.007666	2.084028	2.161831	2.240576	2.319794	.488023
1.62	1.942857	2.018177	2.095488	2.174252	2.253969	2.334166	.498099
1.63	1.952540	2.028802	2.107067	2.186800	2.267495	2.348677	.508138
1.64	1.962333	2.039541	2.118767	2.199474	2.281154	2.363330	.518144
1.65	1.972235	2.050394	2.130587	2.212275	2.294947	2.378124	.528118
1.66	1.982247	2.061363	2.142529	2.225203	2.308875	2.393060	.538063
1.67	1.992369	2.072447	2.154592	2.238260	2.322939	2.408139	.547982
1.68	2.002601	2.083648	2.166777	2.251447	2.337139	2.423363	.557876
1.69	2.012945	2.094965	2.179086	2.264763	2.351476	2.438732	.567747
1.70	2.023401	2.106399	2.191518	2.278209	2.365951	2.454246	.577598
1.71	2.033968	2.117951	2.204074	2.291787	2.380565	2.469908	.587431
1.72	2.044647	2.129622	2.216755	2.305497	2.395319	2.485717	.597249
1.73	2.055440	2.141411	2.229562	2.319339	2.410214	2.501676	.607052
1.74	2.066346	2.153320	2.242494	2.333316	2.425250	2.517784	.616843
1.75	2.077365	2.165348	2.255554	2.347426	2.440428	2.534043	.626624
1.76	2.088499	2.177498	2.268742	2.361672	2.455749	2.550453	.636397
1.77	2.099748	2.189768	2.282057	2.376054	2.471215	2.567017	.646164
1.78	2.111113	2.202161	2.295502	2.390573	2.486826	2.583734	.655926
1.79	2.122593	2.214676	2.309077	2.405229	2.502583	2.600607	.665686
1.80	2.134190	2.227315	2.322782	2.420024	2.518487	2.617635	.675445
1.81	2.145904	2.240077	2.336618	2.434958	2.534539	2.634821	.685204
1.82	2.157736	2.252964	2.350587	2.450033	2.550740	2.652164	.694966
1.83	2.169686	2.265976	2.364689	2.465249	2.567091	2.669667	.704732
1.84	2.181755	2.279114	2.378924	2.480606	2.583593	2.687330	.714504
1.85	2.193943	2.292379	2.393294	2.496107	2.600247	2.705155	.724284
1.86	2.206252	2.305772	2.407800	2.511752	2.617054	2.723143	.734072
1.87	2.218682	2.319292	2.422441	2.527542	2.634016	2.741294	.743871
1.88	2.231233	2.332942	2.437220	2.543478	2.651132	2.759611	.753682
1.89	2.243906	2.346721	2.452137	2.559561	2.668405	2.778093	.763506
1.90	2.256703	2.360631	2.467193	2.575791	2.685835	2.796743	.773346
1.91	2.269622	2.374673	2.482388	2.592171	2.703424	2.815562	.783202
1.92	2.282666	2.388846	2.497725	2.608700	2.721173	2.834550	.793076
1.93	2.295835	2.403152	2.513202	2.625380	2.739082	2.853710	.802969
1.94	2.309130	2.417593	2.528823	2.642212	2.757153	2.873042	.812883
1.95	2.322552	2.432167	2.544587	2.659198	2.775387	2.892548	.822820
1.96	2.336100	2.446878	2.560495	2.676337	2.793786	2.912229	.832780
1.97	2.349777	2.461724	2.576549	2.693632	2.812350	2.932086	.842764
1.98	2.363582	2.476708	2.592749	2.711082	2.831080	2.952121	.852775
1.99	2.377517	2.491831	2.609097	2.728690	2.849979	2.972334	.862814
2.00	2.391582	2.507092	2.625594	2.746457	2.869047	2.992728	.872881

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

$y \backslash \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$\mathcal{T}(y)$
2.00	2.391582	2.507092	2.625594	2.746457	2.869047	2.992728	.872881
2.01	2.405779	2.522493	2.642239	2.764383	2.888285	3.013304	.882979
2.02	2.420107	2.538035	2.659035	2.782470	2.907695	3.034063	.893108
2.03	2.434569	2.553719	2.675983	2.800720	2.927277	3.055006	.903269
2.04	2.449164	2.569546	2.693084	2.819132	2.947034	3.076135	.913464
2.05	2.463893	2.585517	2.710338	2.837708	2.966967	3.097452	.923695
2.06	2.478759	2.601632	2.727747	2.856450	2.987076	3.118957	.933962
2.07	2.493760	2.617893	2.745312	2.875359	3.007364	3.140652	.944266
2.08	2.508899	2.634301	2.763034	2.894436	3.027831	3.162539	.954609
2.09	2.524176	2.650857	2.780914	2.913682	3.048479	3.184619	.964992
2.10	2.539592	2.667561	2.798954	2.933099	3.069310	3.206894	.975416
2.11	2.555148	2.684416	2.817153	2.952687	3.090324	3.229366	.985883
2.12	2.570845	2.701421	2.835515	2.972448	3.111523	3.252035	.996393
2.13	2.586684	2.718578	2.854039	2.992384	3.132909	3.274903	1.006947
2.14	2.602666	2.735889	2.872728	3.012495	3.154483	3.297972	1.017548
2.15	2.618792	2.753353	2.891581	3.032784	3.176246	3.321244	1.028195
2.16	2.635063	2.770973	2.910601	3.053250	3.198200	3.344719	1.038890
2.17	2.651479	2.788749	2.929789	3.073897	3.220347	3.368401	1.049635
2.18	2.668043	2.806683	2.949146	3.094724	3.242687	3.392290	1.060429
2.19	2.684754	2.824775	2.968673	3.115734	3.265223	3.416387	1.071276
2.20	2.701615	2.843028	2.988371	3.136928	3.287956	3.440696	1.082174
2.21	2.718625	2.861441	3.008242	3.158307	3.310887	3.465217	1.093126
2.22	2.735787	2.880016	3.028287	3.179873	3.334019	3.489952	1.104133
2.23	2.753100	2.898755	3.048508	3.201627	3.357352	3.514902	1.115196
2.24	2.770567	2.917658	3.068905	3.223571	3.380888	3.540070	1.126316
2.25	2.788189	2.936728	3.089480	3.245705	3.404629	3.565458	1.137494
2.26	2.805966	2.955964	3.110235	3.268033	3.428577	3.591066	1.148730
2.27	2.823899	2.975368	3.131171	3.290554	3.452733	3.616897	1.160027
2.28	2.841991	2.994942	3.152288	3.313271	3.477098	3.642953	1.171385
2.29	2.860241	3.014687	3.173590	3.336186	3.501675	3.669236	1.182806
2.30	2.878651	3.034604	3.195076	3.359299	3.526466	3.695747	1.194290
2.31	2.897223	3.054695	3.216749	3.382612	3.551471	3.722487	1.205838
2.32	2.915957	3.074960	3.238610	3.406127	3.576693	3.749460	1.217451
2.33	2.934854	3.095401	3.260660	3.429846	3.602133	3.776667	1.229132
2.34	2.953917	3.116020	3.282900	3.453769	3.627793	3.804110	1.240880
2.35	2.973146	3.136817	3.305334	3.477900	3.653675	3.831791	1.252696
2.36	2.992542	3.157795	3.327961	3.502238	3.679781	3.859711	1.264583
2.37	3.012107	3.178954	3.350783	3.526787	3.706112	3.887873	1.276540
2.38	3.031841	3.200296	3.373802	3.551548	3.732671	3.916279	1.288569
2.39	3.051747	3.221822	3.397020	3.576522	3.759459	3.944930	1.300672
2.40	3.071825	3.243535	3.420438	3.601711	3.786478	3.973820	1.312848
2.41	3.092077	3.265434	3.444057	3.627117	3.813730	4.002979	1.325099
2.42	3.112505	3.287522	3.467879	3.652741	3.841217	4.032380	1.337426
2.43	3.133108	3.309800	3.491907	3.678586	3.868940	4.062035	1.349831
2.44	3.153890	3.332270	3.516140	3.704653	3.896903	4.091946	1.362314
2.45	3.174850	3.354933	3.540582	3.730944	3.925106	4.122115	1.374876
2.46	3.195992	3.377791	3.565234	3.757461	3.953551	4.152544	1.387519
2.47	3.217315	3.400844	3.590097	3.784205	3.982242	4.183236	1.400243
2.48	3.238821	3.424096	3.615173	3.811179	4.011179	4.214193	1.413050
2.49	3.260513	3.447547	3.640464	3.838384	4.040365	4.245417	1.425940
2.50	3.282390	3.471199	3.665971	3.865822	4.069801	4.276910	1.438915

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

$y \backslash \varphi$	0.5	0.6	0.7	0.8	0.9	1.0	$T(y)$
2.50	3.282390	3.471199	3.665971	3.865822	4.069801	4.276910	1.438915
2.51	3.304455	3.495053	3.691697	3.893496	4.099490	4.308674	1.451976
2.52	3.326709	3.519111	3.717643	3.921406	4.129435	4.340712	1.465124
2.53	3.349154	3.543375	3.743810	3.949556	4.159636	4.373026	1.478360
2.54	3.371791	3.567846	3.770202	3.977946	4.190096	4.405618	1.491685
2.55	3.394622	3.592526	3.796818	4.006579	4.220818	4.438491	1.505100
2.56	3.417648	3.617417	3.823662	4.035457	4.251803	4.471647	1.518606
2.57	3.440870	3.642521	3.850735	4.064582	4.283054	4.505088	1.532204
2.58	3.464291	3.667838	3.878039	4.093956	4.314573	4.538817	1.545896
2.59	3.487911	3.693371	3.905576	4.123582	4.346362	4.572836	1.559683
2.60	3.511733	3.719122	3.933348	4.153450	4.378424	4.607147	1.573565
2.61	3.535758	3.745091	3.961356	4.183593	4.410760	4.641754	1.587544
2.62	3.559987	3.771282	3.989603	4.213983	4.444373	4.676659	1.601620
2.63	3.584422	3.797696	4.018091	4.244633	4.477626	4.711863	1.615796
2.64	3.609066	3.824334	4.046821	4.275545	4.509439	4.747370	1.630072
2.65	3.633919	3.851199	4.075795	4.306720	4.542897	4.783183	1.644449
2.66	3.658983	3.878292	4.105017	4.338161	4.576641	4.819303	1.658929
2.67	3.684260	3.905615	4.134486	4.369871	4.610674	4.855733	1.673512
2.68	3.709751	3.933170	4.164206	4.401850	4.644999	4.892477	1.688199
2.69	3.735459	3.960960	4.194179	4.434103	4.679617	4.929536	1.702993
2.70	3.761385	3.988984	4.224407	4.466630	4.714531	4.966914	1.717893
2.71	3.787531	4.017247	4.254892	4.499434	4.749744	5.004613	1.732902
2.72	3.813899	4.045749	4.285635	4.532518	4.785257	5.042635	1.748020
2.73	3.840489	4.074493	4.316640	4.565884	4.821075	5.080985	1.763248
2.74	3.867305	4.103480	4.347908	4.599531	4.857199	5.119663	1.778588
2.75	3.894348	4.132714	4.379441	4.633470	4.893631	5.158674	1.794041
2.76	3.921620	4.162194	4.411243	4.667696	4.930376	5.198020	1.809608
2.77	3.949123	4.191925	4.4443314	4.702213	4.967434	5.237704	1.825291
2.78	3.976858	4.221907	4.475657	4.737023	5.004809	5.277728	1.841089
2.79	4.004828	4.252113	4.508274	4.772130	5.042503	5.318096	1.857006
2.80	4.033034	4.282634	4.541169	4.807536	5.080520	5.358811	1.873041
2.81	4.061478	4.313384	4.574342	4.843244	5.118861	5.399875	1.889197
2.82	4.090163	4.3444394	4.607797	4.879255	5.157530	5.4411292	1.905473
2.83	4.119090	4.375666	4.641535	4.915572	5.196530	5.483065	1.921873
2.84	4.148261	4.407202	4.675559	4.952199	5.235863	5.525196	1.938396
2.85	4.177678	4.439006	4.709872	4.989137	5.275531	5.567689	1.955044
2.86	4.207344	4.471078	4.7444176	5.026389	5.315539	5.610547	1.971819
2.87	4.237260	4.503421	4.779373	5.063958	5.355889	5.653772	1.988721
2.88	4.267428	4.536037	4.814565	5.101847	5.396583	5.697369	2.005753
2.89	4.297851	4.568929	4.850056	5.140058	5.437625	5.741340	2.022914
2.90	4.328530	4.602099	4.885848	5.178594	5.479018	5.785689	2.040207
2.91	4.359468	4.635549	4.921943	5.217458	5.520764	5.830418	2.057633
2.92	4.390666	4.669282	4.958343	5.256653	5.562867	5.875532	2.075193
2.93	4.422128	4.703299	4.995053	5.296180	5.605330	5.921033	2.092888
2.94	4.453854	4.737604	5.032073	5.336044	5.648155	5.966924	2.110721
2.95	4.485848	4.772198	5.069406	5.376247	5.691347	6.013210	2.128691
2.96	4.518112	4.807085	5.107056	5.416792	5.734907	6.059893	2.146801
2.97	4.550647	4.842266	5.145025	5.457682	5.778840	6.106978	2.165052
2.98	4.583456	4.877744	5.183316	5.498920	5.823148	6.154466	2.183445
2.99	4.616542	4.913521	5.221930	5.540508	5.867834	6.202362	2.201981
3.00	4.649906	4.949601	5.260872	5.582450	5.912903	6.250670	2.220663



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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$T^*(y)$
.00	.433781	.465396	.494741	.521921	.547061	.570293	-1.000000
.01	.439489	.471224	.500690	.527994	.553257	.576612	-.999950
.02	.445222	.477079	.506670	.534099	.559488	.582968	-.999800
.03	.450981	.482962	.512679	.540236	.565753	.589360	-.999550
.04	.456765	.488873	.518719	.546407	.572054	.595790	-.999200
.05	.462576	.494812	.524790	.552610	.578390	.602258	-.998749
.06	.468413	.500781	.530893	.558848	.584763	.608764	-.998198
.07	.474277	.506779	.537027	.565119	.591172	.615309	-.997547
.08	.480168	.512806	.543193	.571425	.597617	.621893	-.996795
.09	.486086	.518863	.549391	.577766	.604100	.628517	-.995942
.10	.492032	.524951	.555623	.584142	.610621	.635181	-.994987
.11	.498006	.531069	.561887	.590554	.617179	.641885	-.993932
.12	.504009	.537218	.568185	.597002	.623776	.648630	-.992774
.13	.510041	.543399	.574517	.603486	.630412	.655416	-.991514
.14	.516101	.549612	.580884	.610007	.637087	.662244	-.990152
.15	.522192	.555856	.587285	.616565	.643802	.669114	-.988687
.16	.528312	.562133	.593721	.623161	.650558	.676027	-.987118
.17	.534462	.568443	.600193	.629795	.657353	.682983	-.985445
.18	.540643	.574786	.606700	.636467	.664190	.689982	-.983669
.19	.546855	.581163	.613244	.643179	.671068	.697025	-.981787
.20	.553098	.587574	.619824	.649929	.677988	.704113	-.979800
.21	.559373	.594019	.626442	.656720	.684951	.711246	-.977706
.22	.565680	.600499	.633097	.663550	.691956	.718424	-.975506
.23	.572020	.607014	.639790	.670421	.699004	.725647	-.973199
.24	.578392	.613565	.646521	.677333	.706096	.732917	-.970784
.25	.584797	.620152	.653291	.684287	.713233	.740234	-.968260
.26	.591236	.626775	.660100	.691282	.720413	.747598	-.965627
.27	.597709	.633435	.666948	.698320	.727639	.755010	-.962883
.28	.604216	.640132	.673837	.705400	.734910	.762470	-.960028
.29	.610758	.646866	.680766	.712524	.742228	.769979	-.957062
.30	.617335	.653638	.687735	.719691	.749591	.777537	-.953982
.31	.623947	.660449	.694746	.726902	.757002	.785144	-.950789
.32	.630595	.667299	.701799	.734158	.764460	.792802	-.947482
.33	.637280	.674187	.708894	.741459	.771966	.800510	-.944059
.34	.644001	.681116	.716031	.748806	.779520	.808270	-.940519
.35	.650759	.688084	.723211	.756198	.787123	.816081	-.936861
.36	.657555	.695093	.730435	.763637	.794776	.823945	-.933085
.37	.664388	.702142	.737702	.771122	.802478	.831861	-.929189
.38	.671260	.709233	.745014	.778655	.810231	.839831	-.925173
.39	.678170	.716366	.752371	.786236	.818034	.847854	-.921034
.40	.685119	.723541	.759773	.793865	.825889	.855932	-.916772
.41	.692108	.730758	.767221	.801543	.833796	.864065	-.912385
.42	.699137	.738019	.774715	.809270	.841755	.872252	-.907872
.43	.706206	.745323	.782255	.817047	.849767	.880496	-.903232
.44	.713316	.752671	.789843	.824875	.857832	.888797	-.898464
.45	.720467	.760063	.797478	.832753	.865951	.897154	-.893566
.46	.727659	.767500	.805161	.840682	.874125	.905569	-.888537
.47	.734894	.774982	.812893	.848663	.882354	.914043	-.883375
.48	.742171	.782511	.820674	.856697	.890638	.922575	-.878079
.49	.749491	.790085	.828505	.864783	.898979	.931166	-.872647
.50	.756855	.797706	.836385	.872923	.907376	.939817	-.867078

$$Q(y, \varphi) = R^*(y, \varphi) + \frac{1+\varphi}{2} U(y/k)$$

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

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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$T(y)$
.50	1.540277	1.532126	1.526491	1.522847	1.520777	1.519950	-3.468313
.51	1.538105	1.530911	1.526148	1.523305	1.521974	1.521831	-3.311690
.52	1.536238	1.529983	1.526079	1.524024	1.523422	1.523955	-3.163914
.53	1.534664	1.529333	1.526274	1.524997	1.525114	1.526315	-3.024321
.54	1.533375	1.528952	1.526725	1.526215	1.527042	1.528904	-2.892310
.55	1.532359	1.528831	1.527424	1.527671	1.529201	1.531716	-2.767332
.56	1.531609	1.528961	1.528364	1.529358	1.531582	1.534744	-2.648887
.57	1.531116	1.529336	1.529537	1.531270	1.534181	1.537984	-2.536519
.58	1.530871	1.529947	1.530936	1.533401	1.536992	1.541430	-2.429809
.59	1.530868	1.530788	1.532557	1.535744	1.540009	1.545077	-2.328376
.60	1.531099	1.531853	1.534392	1.538295	1.543228	1.548920	-2.231870
.61	1.531558	1.533135	1.536437	1.541049	1.546643	1.552956	-2.139967
.62	1.532238	1.534630	1.538685	1.544000	1.550252	1.557181	-2.052371
.63	1.533134	1.536331	1.541133	1.547145	1.554048	1.561589	-1.968809
.64	1.534240	1.538233	1.543776	1.550479	1.558030	1.566179	-1.889029
.65	1.535551	1.540333	1.546609	1.553997	1.562192	1.570947	-1.812799
.66	1.537062	1.542624	1.549628	1.557697	1.566532	1.575889	-1.739902
.67	1.538768	1.545104	1.552829	1.561575	1.571046	1.581002	-1.670140
.68	1.540665	1.547767	1.556209	1.565628	1.575731	1.586285	-1.603328
.69	1.542748	1.550611	1.559764	1.569851	1.580585	1.591733	-1.539294
.70	1.545013	1.553631	1.563492	1.574244	1.585604	1.597345	-1.477878
.71	1.547458	1.556824	1.567388	1.578802	1.590787	1.603119	-1.418934
.72	1.550077	1.560188	1.571450	1.583522	1.596130	1.609052	-1.362322
.73	1.552869	1.563718	1.575675	1.588404	1.601632	1.615142	-1.307914
.74	1.555828	1.567412	1.580061	1.593443	1.607291	1.621388	-1.255589
.75	1.558954	1.571268	1.584606	1.598639	1.613104	1.627787	-1.205237
.76	1.562242	1.575282	1.589306	1.603988	1.619070	1.634338	-1.156751
.77	1.565690	1.579453	1.594160	1.609490	1.625186	1.641039	-1.110035
.78	1.569295	1.583778	1.599165	1.615141	1.631452	1.647890	-1.064996
.79	1.573055	1.588254	1.604320	1.620941	1.637865	1.654887	-1.021547
.80	1.576968	1.592881	1.609623	1.626888	1.644425	1.662031	-.979610
.81	1.581031	1.597655	1.615073	1.632980	1.651129	1.669320	-.939107
.82	1.585242	1.602575	1.620666	1.639216	1.657977	1.676753	-.899967
.83	1.589600	1.607639	1.626403	1.645594	1.664968	1.684329	-.862124
.84	1.594102	1.612846	1.632281	1.652113	1.672100	1.692047	-.825515
.85	1.598746	1.618193	1.638300	1.658772	1.679372	1.699906	-.790079
.86	1.603532	1.623681	1.644457	1.665570	1.686784	1.707905	-.755763
.87	1.608456	1.629306	1.650752	1.672506	1.694334	1.716044	-.722511
.88	1.613519	1.635068	1.657183	1.679579	1.702022	1.724322	-.690276
.89	1.618718	1.640966	1.663750	1.686788	1.709847	1.732737	-.659010
.90	1.624052	1.646998	1.670451	1.694132	1.717808	1.741291	-.628668
.91	1.629520	1.653163	1.677286	1.701610	1.725904	1.749982	-.599209
.92	1.635120	1.659461	1.684254	1.709222	1.734136	1.758809	-.570593
.93	1.640852	1.665891	1.691354	1.716967	1.742502	1.767773	-.542782
.94	1.646715	1.672450	1.698585	1.724844	1.751002	1.776872	-.515741
.95	1.652707	1.679140	1.705946	1.732853	1.759635	1.786108	-.489435
.96	1.658827	1.685958	1.713437	1.740994	1.768402	1.795479	-.463834
.97	1.665075	1.692904	1.721058	1.749265	1.777302	1.804984	-.438905
.98	1.671449	1.699978	1.728807	1.757667	1.786335	1.814626	-.414622
.99	1.677950	1.707179	1.736685	1.766199	1.795500	1.824401	-.390955
1.00	1.684576	1.714506	1.744690	1.774861	1.804797	1.834312	-.367879

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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$T(y)$
1.00	1.684576	1.714506	1.744690	1.774861	1.804797	1.834312	-.367879
1.01	1.691326	1.721958	1.752823	1.783653	1.814226	1.844358	-.345370
1.02	1.698200	1.729536	1.761083	1.792574	1.823787	1.854538	-.323403
1.03	1.705198	1.737239	1.769470	1.801624	1.833479	1.864853	-.301957
1.04	1.712319	1.745067	1.777983	1.810803	1.843304	1.875303	-.281009
1.05	1.719562	1.753018	1.786623	1.820111	1.853261	1.885888	-.260540
1.06	1.726927	1.761093	1.795388	1.829547	1.863349	1.896607	-.240529
1.07	1.734414	1.769292	1.804280	1.839113	1.873569	1.907463	-.220959
1.08	1.742022	1.777614	1.813298	1.848807	1.883921	1.918453	-.201811
1.09	1.749751	1.786059	1.822441	1.858630	1.894405	1.929579	-.183069
1.10	1.757600	1.794627	1.831710	1.868582	1.905021	1.940841	-.164716
1.11	1.765570	1.803318	1.841104	1.878663	1.915770	1.952239	-.146737
1.12	1.773660	1.812132	1.850624	1.888873	1.926652	1.963774	-.129118
1.13	1.781869	1.821068	1.860270	1.899212	1.937666	1.975445	-.111843
1.14	1.790199	1.830126	1.870042	1.909680	1.948814	1.987254	-.094900
1.15	1.798648	1.839308	1.879940	1.920278	1.960095	1.999200	-.078276
1.16	1.807217	1.848612	1.889964	1.931005	1.971509	2.011284	-.061958
1.17	1.815905	1.858038	1.900113	1.941863	1.983058	2.023506	-.045934
1.18	1.824713	1.867587	1.910389	1.952851	1.994741	2.035868	-.030193
1.19	1.833640	1.877259	1.920792	1.963969	2.006560	2.048368	-.014723
1.20	1.842686	1.887054	1.931322	1.975219	2.018513	2.061009	.000485
1.21	1.851852	1.896972	1.941978	1.986599	2.030602	2.073790	.015441
1.22	1.861138	1.907013	1.952762	1.998112	2.042828	2.086712	.030157
1.23	1.870543	1.917178	1.963673	2.009756	2.055190	2.099775	.044640
1.24	1.880069	1.927466	1.974713	2.021533	2.067689	2.112981	.058899
1.25	1.889714	1.937878	1.985880	2.033442	2.080326	2.126329	.072944
1.26	1.899479	1.948415	1.997177	2.045486	2.093102	2.139821	.086782
1.27	1.909365	1.959076	2.008602	2.057663	2.106016	2.153457	.100422
1.28	1.919371	1.969862	2.020157	2.069974	2.119070	2.167237	.113871
1.29	1.929498	1.980773	2.031841	2.082420	2.132264	2.181163	.127137
1.30	1.939746	1.991810	2.043656	2.095002	2.145598	2.195235	.140227
1.31	1.950115	2.002972	2.055602	2.107719	2.159074	2.209454	.153147
1.32	1.960606	2.014261	2.067679	2.120574	2.172693	2.223821	.165904
1.33	1.971219	2.025676	2.079888	2.133565	2.186453	2.238337	.178504
1.34	1.981955	2.037219	2.092230	2.146694	2.200358	2.253001	.190955
1.35	1.992813	2.048890	2.104704	2.159962	2.214406	2.267816	.203260
1.36	2.003794	2.060688	2.117312	2.173369	2.228600	2.282781	.215428
1.37	2.014898	2.072615	2.130054	2.186916	2.242939	2.297899	.227462
1.38	2.026126	2.084671	2.142930	2.200603	2.257425	2.313169	.239368
1.39	2.037479	2.096857	2.155942	2.214432	2.272058	2.328593	.251152
1.40	2.048957	2.109173	2.169090	2.228402	2.286840	2.344171	.262818
1.41	2.060559	2.121620	2.182375	2.242515	2.301770	2.359905	.274372
1.42	2.072288	2.134198	2.195797	2.256772	2.316851	2.375795	.285817
1.43	2.084142	2.146908	2.209356	2.271173	2.332082	2.391842	.297159
1.44	2.096124	2.159751	2.223055	2.285719	2.347464	2.408048	.308401
1.45	2.108232	2.172727	2.236893	2.300411	2.363000	2.424413	.319549
1.46	2.120469	2.185837	2.250871	2.315250	2.378688	2.440939	.330606
1.47	2.132834	2.199081	2.264990	2.330236	2.394532	2.457626	.341576
1.48	2.145328	2.212461	2.279251	2.345371	2.410530	2.474475	.352464
1.49	2.157952	2.225977	2.293655	2.360656	2.426686	2.491488	.363272
1.50	2.170706	2.239629	2.308202	2.376090	2.442998	2.508666	.374004

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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$T(y)$
1.50	2.170706	2.239629	2.308202	2.376090	2.442998	2.508666	.374004
1.51	2.183591	2.253419	2.322893	2.391676	2.459469	2.526010	.384665
1.52	2.196608	2.267347	2.337729	2.407414	2.476100	2.543520	.395257
1.53	2.209756	2.281413	2.352711	2.423305	2.492890	2.561198	.405784
1.54	2.223038	2.295620	2.367839	2.439350	2.509843	2.579046	.416249
1.55	2.236453	2.309967	2.383116	2.455551	2.526958	2.597064	.426655
1.56	2.250003	2.324455	2.398541	2.471907	2.544237	2.615253	.437005
1.57	2.263688	2.339086	2.414115	2.488420	2.561681	2.633615	.447303
1.58	2.277509	2.353859	2.429840	2.505092	2.579291	2.652152	.457551
1.59	2.291466	2.368777	2.445717	2.521923	2.597068	2.670863	.467751
1.60	2.305561	2.383839	2.461745	2.538914	2.615013	2.689751	.477908
1.61	2.319794	2.399046	2.477928	2.556066	2.633128	2.708817	.488023
1.62	2.334166	2.414401	2.494264	2.573381	2.651414	2.728062	.498099
1.63	2.348677	2.429902	2.510756	2.590860	2.669871	2.747487	.508138
1.64	2.363330	2.445552	2.527404	2.608503	2.688502	2.767094	.518144
1.65	2.378124	2.461352	2.544210	2.626312	2.707307	2.786884	.528118
1.66	2.393060	2.477301	2.561174	2.644288	2.726288	2.806859	.538063
1.67	2.408139	2.493402	2.578298	2.662432	2.745445	2.827019	.547982
1.68	2.423363	2.509655	2.595583	2.680745	2.764781	2.847367	.557876
1.69	2.438732	2.526062	2.613029	2.699230	2.784297	2.867903	.567747
1.70	2.454246	2.542623	2.630639	2.717886	2.803993	2.888630	.577598
1.71	2.469908	2.559339	2.648412	2.736715	2.823872	2.909548	.587431
1.72	2.485717	2.576211	2.666351	2.755718	2.843934	2.930659	.597249
1.73	2.501676	2.593241	2.684456	2.774897	2.864181	2.951964	.607052
1.74	2.517784	2.610430	2.702728	2.794253	2.884615	2.973465	.616843
1.75	2.534043	2.627778	2.721170	2.813787	2.905236	2.995164	.626624
1.76	2.550453	2.645287	2.739781	2.833501	2.926047	3.017062	.636397
1.77	2.567017	2.662958	2.758564	2.853395	2.947048	3.039161	.646164
1.78	2.583734	2.680792	2.777519	2.873472	2.968241	3.061462	.655926
1.79	2.600607	2.698790	2.796648	2.893732	2.989628	3.083966	.665686
1.80	2.617635	2.716953	2.815952	2.914177	3.011211	3.106676	.675445
1.81	2.634821	2.735283	2.835433	2.934809	3.032989	3.129593	.685204
1.82	2.652164	2.753781	2.855091	2.955628	3.054966	3.152718	.694966
1.83	2.669667	2.772447	2.874928	2.976637	3.077143	3.176054	.704732
1.84	2.687330	2.791284	2.894945	2.997837	3.099521	3.199602	.714504
1.85	2.705155	2.810292	2.915144	3.019228	3.122102	3.223364	.724284
1.86	2.723143	2.829473	2.935526	3.040813	3.144887	3.247341	.734072
1.87	2.741294	2.848828	2.956092	3.062594	3.167878	3.271535	.743871
1.88	2.759611	2.868358	2.976844	3.084571	3.191077	3.295948	.753682
1.89	2.778093	2.888065	2.997784	3.106746	3.214486	3.320582	.763506
1.90	2.796743	2.907949	3.018912	3.129121	3.238105	3.345438	.773346
1.91	2.815562	2.928013	3.040230	3.151697	3.261938	3.370518	.783202
1.92	2.834550	2.948257	3.061740	3.174477	3.285984	3.395825	.793076
1.93	2.853710	2.968684	3.083443	3.197460	3.310247	3.421360	.802969
1.94	2.873042	2.989293	3.105340	3.220650	3.334728	3.447124	.812883
1.95	2.892548	3.010087	3.127434	3.244048	3.359429	3.473120	.822820
1.96	2.912229	3.031068	3.149725	3.267655	3.384351	3.499350	.832780
1.97	2.932086	3.052236	3.172216	3.291473	3.409496	3.525816	.842764
1.98	2.952121	3.073593	3.194907	3.315504	3.434866	3.552518	.852775
1.99	2.972334	3.095140	3.217800	3.339750	3.460463	3.579461	.862814
2.00	2.992728	3.116879	3.240898	3.364212	3.486289	3.606645	.872881

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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$T(y)$
2.00	2.992728	3.116879	3.240898	3.364212	3.486289	3.606645	.872881
2.01	3.013304	3.138812	3.264201	3.388892	3.512346	3.634072	.882979
2.02	3.034063	3.160940	3.287711	3.413791	3.538635	3.661745	.893108
2.03	3.055006	3.183264	3.311430	3.438912	3.565159	3.689665	.903269
2.04	3.076135	3.205786	3.335360	3.464257	3.591919	3.717835	.913464
2.05	3.097452	3.228508	3.359501	3.489826	3.618918	3.746257	.923695
2.06	3.118957	3.251431	3.383857	3.515623	3.646156	3.774932	.933962
2.07	3.140652	3.274556	3.408428	3.541648	3.673637	3.803864	.944266
2.08	3.162539	3.297886	3.433217	3.567904	3.701363	3.833053	.954609
2.09	3.184619	3.321422	3.458224	3.594393	3.729335	3.862503	.964992
2.10	3.206894	3.345166	3.483453	3.621116	3.757555	3.892216	.975416
2.11	3.229366	3.369118	3.508904	3.648076	3.786026	3.922193	.985883
2.12	3.252035	3.393282	3.534580	3.675274	3.814749	3.952437	.996393
2.13	3.274903	3.417658	3.560482	3.702713	3.843727	3.982950	1.006947
2.14	3.297972	3.442248	3.586612	3.730394	3.872961	4.013734	1.017548
2.15	3.321244	3.467055	3.612973	3.758319	3.902455	4.044793	1.028195
2.16	3.344719	3.492079	3.639565	3.786491	3.932210	4.076127	1.038890
2.17	3.368401	3.517323	3.666391	3.814911	3.962228	4.107740	1.049635
2.18	3.392290	3.542788	3.693453	3.843581	3.992512	4.139634	1.060429
2.19	3.416387	3.568476	3.720752	3.872504	4.023064	4.171811	1.071276
2.20	3.440696	3.594389	3.748291	3.901682	4.053886	4.204274	1.082174
2.21	3.465217	3.620529	3.776072	3.931117	4.084980	4.237025	1.093126
2.22	3.489952	3.646898	3.804096	3.960811	4.116349	4.270066	1.104133
2.23	3.514902	3.673497	3.832366	3.990766	4.147994	4.303400	1.115196
2.24	3.540070	3.700328	3.860883	4.020984	4.179920	4.337030	1.126316
2.25	3.565458	3.727394	3.889650	4.051468	4.212126	4.370958	1.137494
2.26	3.591066	3.754695	3.918669	4.082219	4.244617	4.405187	1.148730
2.27	3.616897	3.782235	3.947942	4.113241	4.277395	4.439719	1.160027
2.28	3.642953	3.810015	3.977471	4.144535	4.310462	4.474557	1.171385
2.29	3.669236	3.838037	4.007258	4.176104	4.343820	4.509703	1.182806
2.30	3.695747	3.866303	4.037305	4.207950	4.377472	4.545160	1.194290
2.31	3.722487	3.894815	4.067615	4.240074	4.411420	4.580932	1.205838
2.32	3.749460	3.923575	4.098190	4.272481	4.445667	4.617019	1.217451
2.33	3.776667	3.952586	4.129031	4.305172	4.480216	4.653427	1.229132
2.34	3.804110	3.981848	4.160141	4.338149	4.515069	4.690156	1.240880
2.35	3.831791	4.011365	4.191523	4.371415	4.550229	4.727210	1.252696
2.36	3.859711	4.041138	4.223179	4.404973	4.585699	4.764591	1.264583
2.37	3.887873	4.071170	4.255111	4.438824	4.621480	4.802304	1.276540
2.38	3.916279	4.101463	4.287320	4.472971	4.657576	4.840349	1.288569
2.39	3.944930	4.132019	4.319811	4.507418	4.693990	4.878731	1.300672
2.40	3.973830	4.162839	4.352585	4.542166	4.730723	4.917452	1.312848
2.41	4.002979	4.193927	4.385644	4.577218	4.767780	4.956515	1.325099
2.42	4.032380	4.225285	4.418991	4.612577	4.805162	4.995924	1.337426
2.43	4.062035	4.256914	4.452628	4.648244	4.842873	5.035680	1.349831
2.44	4.091946	4.288818	4.486558	4.684224	4.880916	5.075788	1.362314
2.45	4.122115	4.320998	4.520783	4.720518	4.919292	5.116250	1.374876
2.46	4.152544	4.353457	4.555306	4.757130	4.958006	5.157069	1.387519
2.47	4.183236	4.386197	4.590129	4.794061	4.997060	5.198248	1.400243
2.48	4.214193	4.419220	4.625255	4.831316	5.036457	5.239792	1.413050
2.49	4.245417	4.452529	4.660687	4.868895	5.076200	5.281702	1.425940
2.50	4.276910	4.486127	4.696426	4.906803	5.116292	5.323982	1.438915

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

$y \backslash \varphi$	1.0	1.1	1.2	1.3	1.4	1.5	$T(y)$
2.50	4.276910	4.486127	4.696426	4.906803	5.116292	5.323982	1.438915
2.51	4.308674	4.520015	4.732477	4.945043	5.156736	5.366635	1.451976
2.52	4.340712	4.554196	4.768840	4.983616	5.197535	5.409665	1.465124
2.53	4.373026	4.588673	4.805520	5.022526	5.238692	5.453074	1.478360
2.54	4.405618	4.623448	4.842518	5.061776	5.280211	5.496867	1.491685
2.55	4.438491	4.658524	4.879837	5.101369	5.322094	5.541046	1.505100
2.56	4.471647	4.693903	4.917481	5.141307	5.364344	5.585616	1.518606
2.57	4.505088	4.729588	4.955452	5.181594	5.406966	5.630578	1.532204
2.58	4.538817	4.765581	4.993752	5.222232	5.449961	5.675937	1.545896
2.59	4.572836	4.801885	5.032386	5.263226	5.493334	5.721697	1.559683
2.60	4.607147	4.838503	5.071354	5.304577	5.537088	5.767860	1.573565
2.61	4.641754	4.875438	5.110661	5.346289	5.581225	5.814431	1.587544
2.62	4.676659	4.912691	5.150309	5.388365	5.625750	5.861412	1.601620
2.63	4.711863	4.950266	5.190302	5.430809	5.670665	5.908809	1.615796
2.64	4.747370	4.988166	5.230641	5.473622	5.715975	5.956623	1.630072
2.65	4.783183	5.026393	5.271331	5.516810	5.761682	6.004859	1.644449
2.66	4.819303	5.064950	5.312374	5.560374	5.807790	6.053521	1.658929
2.67	4.855733	5.103840	5.353773	5.604318	5.854303	6.102612	1.673512
2.68	4.892477	5.143066	5.395531	5.648646	5.901224	6.152137	1.688199
2.69	4.929536	5.182631	5.437652	5.693361	5.948557	6.202098	1.702993
2.70	4.966914	5.222537	5.480138	5.738466	5.996305	6.252501	1.717893
2.71	5.004613	5.262787	5.522993	5.783964	6.044472	6.303348	1.732902
2.72	5.042635	5.303385	5.566220	5.829859	6.093061	6.354644	1.748020
2.73	5.080985	5.344334	5.609822	5.876155	6.142077	6.406392	1.763248
2.74	5.119663	5.385636	5.653802	5.922855	6.191524	6.458597	1.778588
2.75	5.158674	5.427294	5.698164	5.969962	6.241404	6.511263	1.794041
2.76	5.198020	5.469312	5.742910	6.017480	6.291721	6.564394	1.809608
2.77	5.237704	5.511693	5.788046	6.065413	6.342480	6.617994	1.825291
2.78	5.277728	5.554439	5.833572	6.113764	6.393685	6.672066	1.841089
2.79	5.318096	5.597554	5.879494	6.162537	6.445339	6.726616	1.857006
2.80	5.358811	5.641042	5.925814	6.211736	6.497447	6.781648	1.873041
2.81	5.399875	5.684904	5.972537	6.261364	6.550011	6.837165	1.889197
2.82	5.441292	5.729145	6.019664	6.311425	6.603038	6.893173	1.905473
2.83	5.483065	5.773769	6.067201	6.361923	6.656529	6.949674	1.921873
2.84	5.525196	5.818777	6.115150	6.412862	6.710490	7.006675	1.938396
2.85	5.567689	5.864173	6.163515	6.464245	6.764925	7.064179	1.955044
2.86	5.610547	5.909962	6.212301	6.516077	6.819838	7.122191	1.971819
2.87	5.653772	5.956146	6.261509	6.568361	6.875233	7.180715	1.988721
2.88	5.697369	6.002728	6.311145	6.621102	6.931114	7.239756	2.005753
2.89	5.741340	6.049712	6.361211	6.674303	6.987486	7.299318	2.022914
2.90	5.785689	6.097102	6.411712	6.727969	7.044353	7.359407	2.040207
2.91	5.830418	6.144901	6.462651	6.782103	7.101719	7.420026	2.057633
2.92	5.875532	6.193113	6.514033	6.836710	7.159589	7.481181	2.075193
2.93	5.921033	6.241741	6.565861	6.891793	7.217968	7.542876	2.092888
2.94	5.966924	6.290788	6.618138	6.947358	7.276859	7.605116	2.110721
2.95	6.013210	6.340260	6.670870	7.003408	7.336267	7.667906	2.128691
2.96	6.059893	6.390158	6.724059	7.059947	7.396198	7.731250	2.146801
2.97	6.106978	6.440487	6.777711	7.116980	7.456655	7.795155	2.165052
2.98	6.154466	6.491251	6.831828	7.174512	7.517643	7.859624	2.183445
2.99	6.202362	6.542453	6.886415	7.232546	7.579167	7.924664	2.201981
3.00	6.250670	6.594097	6.941477	7.291087	7.641232	7.990278	2.220663

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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$T^*(y)$
.00	.570293	.591754	.611577	.629894	.646830	.662501	-1.000000
.01	.576612	.598194	.618136	.636569	.653617	.669397	-.999950
.02	.582968	.604672	.624735	.643286	.660448	.676339	-.999800
.03	.589360	.611190	.631376	.650046	.667325	.683329	-.999550
.04	.595790	.617747	.638058	.656850	.674248	.690366	-.999200
.05	.602258	.624345	.644783	.663699	.681217	.697451	-.998749
.06	.608764	.630983	.651550	.670593	.688233	.704585	-.998198
.07	.615309	.637662	.658361	.677531	.695296	.711769	-.997547
.08	.621893	.644383	.665215	.684516	.702406	.719002	-.996795
.09	.628517	.651145	.672113	.691546	.709566	.726285	-.995942
.10	.635181	.657950	.679056	.698623	.716773	.733620	-.994987
.11	.641885	.664797	.686043	.705748	.724030	.741005	-.993932
.12	.648630	.671688	.693076	.712920	.731337	.748442	-.992774
.13	.655416	.678622	.700155	.720140	.738694	.755932	-.991514
.14	.662244	.685600	.707281	.727409	.746102	.763474	-.990152
.15	.669114	.692623	.714453	.734727	.753562	.771070	-.988687
.16	.676027	.699691	.721673	.742094	.761073	.778720	-.987118
.17	.682983	.706804	.728940	.749512	.768636	.786424	-.985445
.18	.689982	.713963	.736256	.756980	.776252	.794183	-.983669
.19	.697025	.721169	.743620	.764499	.783922	.801998	-.981787
.20	.704113	.728422	.751034	.772070	.791645	.809869	-.979800
.21	.711246	.735722	.758498	.779694	.799423	.817797	-.977706
.22	.718424	.743069	.766012	.787370	.807256	.825782	-.975506
.23	.725647	.750466	.773577	.795099	.815145	.833825	-.973199
.24	.732917	.757911	.781193	.802882	.823090	.841926	-.970784
.25	.740234	.765405	.788861	.810719	.831091	.850086	-.968260
.26	.747598	.772949	.796582	.818611	.839150	.858306	-.965627
.27	.755010	.780544	.804355	.826559	.847266	.866585	-.962883
.28	.762470	.788189	.812182	.834562	.855441	.874926	-.960028
.29	.769979	.795886	.820063	.842622	.863675	.883328	-.957062
.30	.777537	.803635	.827998	.850739	.871968	.891792	-.953982
.31	.785144	.811436	.835989	.858914	.880322	.900318	-.950789
.32	.792802	.819290	.844034	.867147	.888736	.908908	-.947482
.33	.800510	.827197	.852137	.875438	.897211	.917561	-.944059
.34	.808270	.835159	.860295	.883789	.905749	.926279	-.940519
.35	.816081	.843175	.868511	.892200	.914349	.935062	-.936861
.36	.823945	.851246	.876785	.900672	.923012	.943910	-.933085
.37	.831861	.859372	.885118	.909204	.931739	.952825	-.929189
.38	.839831	.867555	.893509	.917798	.940530	.961807	-.925173
.39	.847854	.875795	.901960	.926455	.949386	.970856	-.921034
.40	.855932	.884091	.910470	.935174	.958308	.979974	-.916772
.41	.864065	.892446	.919042	.943957	.967296	.989161	-.912385
.42	.872252	.900859	.927675	.952805	.976351	.998417	-.907872
.43	.880496	.909331	.936370	.961717	.985474	1.007743	-.903232
.44	.888797	.917862	.945127	.970694	.994665	1.017141	-.898464
.45	.897154	.926454	.953947	.979737	1.003925	1.026610	-.893566
.46	.905569	.935106	.962832	.988847	1.013254	1.036151	-.888537
.47	.914043	.943819	.971780	.998025	1.022653	1.045765	-.883375
.48	.922575	.952595	.980794	1.007270	1.032124	1.055453	-.878079
.49	.931166	.961433	.989872	1.016584	1.041665	1.065216	-.872647
.50	.939817	.970334	.999018	1.025967	1.051280	1.075053	-.867078

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

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

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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$\mathcal{T}(y)$
.50	1.519950	1.520098	1.521006	1.522501	1.524440	1.526708	-3.468313
.51	1.521831	1.522615	1.524117	1.526166	1.528623	1.531378	-3.311690
.52	1.523955	1.525369	1.527458	1.530055	1.533027	1.536263	-3.163914
.53	1.526315	1.528351	1.531021	1.534162	1.537643	1.541359	-3.024321
.54	1.528904	1.531556	1.534802	1.538482	1.542469	1.546659	-2.892310
.55	1.531716	1.534978	1.538794	1.543009	1.547498	1.552160	-2.767332
.56	1.534744	1.538611	1.542993	1.547739	1.552727	1.557857	-2.648887
.57	1.537984	1.542450	1.547394	1.552667	1.558150	1.563747	-2.536519
.58	1.541430	1.546490	1.551992	1.557789	1.563765	1.569826	-2.429809
.59	1.545077	1.550727	1.556783	1.563101	1.569568	1.576091	-2.328376
.60	1.548920	1.555157	1.561764	1.568600	1.575554	1.582537	-2.231870
.61	1.552956	1.559775	1.566930	1.574282	1.581722	1.589164	-2.139967
.62	1.557181	1.564579	1.572278	1.580143	1.588068	1.595967	-2.052371
.63	1.561589	1.569563	1.577805	1.586182	1.594589	1.602944	-1.968809
.64	1.566179	1.574726	1.583508	1.592395	1.601283	1.610092	-1.889029
.65	1.570947	1.580064	1.589384	1.598779	1.608148	1.617411	-1.812799
.66	1.575889	1.585574	1.595430	1.605332	1.615180	1.624896	-1.739902
.67	1.581002	1.591253	1.601644	1.612052	1.622378	1.632548	-1.670140
.68	1.586285	1.597099	1.608024	1.618936	1.629741	1.640362	-1.603328
.69	1.591733	1.603110	1.614567	1.625983	1.637265	1.648340	-1.539294
.70	1.597345	1.609284	1.621271	1.633191	1.644951	1.656477	-1.477878
.71	1.603119	1.615617	1.628135	1.640558	1.652795	1.664774	-1.418934
.72	1.609052	1.622109	1.635157	1.648083	1.660797	1.673228	-1.362322
.73	1.615142	1.628757	1.642335	1.655764	1.668955	1.681840	-1.307914
.74	1.621388	1.635560	1.649667	1.663599	1.677267	1.690606	-1.255589
.75	1.627787	1.642516	1.657153	1.671587	1.685734	1.699528	-1.205237
.76	1.634338	1.649624	1.664790	1.679728	1.694354	1.708603	-1.156751
.77	1.641039	1.656881	1.672577	1.688020	1.703125	1.717830	-1.110035
.78	1.647890	1.664288	1.680514	1.696461	1.712047	1.727210	-1.064996
.79	1.654887	1.671843	1.688599	1.705052	1.721120	1.736741	-1.021547
.80	1.662031	1.679544	1.696832	1.713791	1.730342	1.746423	-.979610
.81	1.669320	1.687391	1.705211	1.722678	1.739713	1.756255	-.939107
.82	1.676753	1.695382	1.713736	1.731711	1.749231	1.766236	-.899967
.83	1.684329	1.703517	1.722405	1.740891	1.758898	1.776367	-.862124
.84	1.692047	1.711795	1.731219	1.750216	1.768712	1.786647	-.825515
.85	1.699906	1.720216	1.740176	1.759687	1.778673	1.797076	-.790079
.86	1.707905	1.728778	1.749276	1.769302	1.788780	1.807653	-.755763
.87	1.716044	1.737480	1.758519	1.779061	1.799033	1.818378	-.722511
.88	1.724322	1.746323	1.767903	1.788965	1.809433	1.829252	-.690276
.89	1.732737	1.755306	1.777430	1.799012	1.819978	1.840274	-.659010
.90	1.741291	1.764428	1.787098	1.809202	1.830669	1.851443	-.628668
.91	1.749982	1.773690	1.796907	1.819536	1.841506	1.862761	-.599209
.92	1.758809	1.783090	1.806856	1.830013	1.852488	1.874227	-.570593
.93	1.767773	1.792628	1.816947	1.840634	1.863616	1.885841	-.542782
.94	1.776872	1.802305	1.827178	1.851397	1.874890	1.897603	-.515741
.95	1.786108	1.812119	1.837549	1.862303	1.886309	1.909515	-.489435
.96	1.795479	1.822072	1.848061	1.873353	1.897875	1.921574	-.463834
.97	1.804984	1.832162	1.858714	1.884546	1.909586	1.933783	-.438905
.98	1.814626	1.842389	1.869506	1.895882	1.921444	1.946142	-.414622
.99	1.824401	1.852755	1.880440	1.907361	1.933449	1.958650	-.390955
1.00	1.834312	1.863258	1.891514	1.918985	1.945600	1.971308	-.367879



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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$\mathcal{T}(y)$
1.00	1.834312	1.863258	1.891514	1.918985	1.945600	1.971308	-.367879
1.01	1.844358	1.873899	1.902728	1.930752	1.957899	1.984116	-.345370
1.02	1.854538	1.884677	1.914084	1.942664	1.970345	1.997076	-.323403
1.03	1.864853	1.895594	1.925581	1.954720	1.982939	2.010187	-.301957
1.04	1.875303	1.906648	1.937219	1.966921	1.995681	2.023449	-.281009
1.05	1.885888	1.917841	1.948999	1.979267	2.008573	2.036865	-.260540
1.06	1.896607	1.929172	1.960921	1.991759	2.021613	2.050433	-.240529
1.07	1.907463	1.940642	1.972985	2.004397	2.034804	2.064155	-.220959
1.08	1.918453	1.952251	1.985193	2.017181	2.048144	2.078030	-.201811
1.09	1.929579	1.963999	1.997543	2.030113	2.061636	2.092061	-.183069
1.10	1.940841	1.975887	2.010037	2.043192	2.075279	2.106247	-.164716
1.11	1.952239	1.987915	2.022675	2.056419	2.089075	2.120590	-.146737
1.12	1.963774	2.000084	2.035457	2.069795	2.103023	2.135089	-.129118
1.13	1.975445	2.012393	2.048384	2.083320	2.117125	2.149746	-.111843
1.14	1.987254	2.024844	2.061457	2.096994	2.131380	2.164562	-.094900
1.15	1.999200	2.037436	2.074676	2.110820	2.145791	2.179537	-.078276
1.16	2.011284	2.050171	2.088042	2.124796	2.160357	2.194672	-.061958
1.17	2.023506	2.063049	2.101555	2.138925	2.175080	2.209967	-.045934
1.18	2.035868	2.076069	2.115216	2.153206	2.189960	2.225425	-.030193
1.19	2.048368	2.089234	2.129026	2.167640	2.204998	2.241045	-.014723
1.20	2.061009	2.102544	2.142985	2.182228	2.220195	2.256829	.000485
1.21	2.073790	2.115998	2.157094	2.196971	2.235552	2.272778	.015441
1.22	2.086712	2.129599	2.171353	2.211870	2.251069	2.288892	.030157
1.23	2.099775	2.143345	2.185765	2.226926	2.266747	2.305172	.044640
1.24	2.112981	2.157239	2.200328	2.242138	2.282589	2.321620	.058899
1.25	2.126329	2.171281	2.215044	2.257509	2.298593	2.338237	.072944
1.26	2.139821	2.185472	2.229915	2.273040	2.314762	2.355023	.086782
1.27	2.153457	2.199812	2.244940	2.288730	2.331097	2.371980	.100422
1.28	2.167237	2.214301	2.260120	2.304581	2.347597	2.389108	.113871
1.29	2.181163	2.228942	2.275457	2.320594	2.364266	2.406410	.127137
1.30	2.195235	2.243735	2.290952	2.336770	2.381102	2.423885	.140227
1.31	2.209454	2.258680	2.306604	2.353110	2.398109	2.441536	.153147
1.32	2.223821	2.273779	2.322116	2.369615	2.415286	2.459363	.165904
1.33	2.238337	2.289031	2.338388	2.386286	2.432634	2.477367	.178504
1.34	2.253001	2.304439	2.354521	2.403124	2.450156	2.495551	.190955
1.35	2.267816	2.320004	2.370816	2.420130	2.467852	2.513914	.203260
1.36	2.282781	2.335725	2.387274	2.437305	2.485723	2.532459	.215428
1.37	2.297899	2.351604	2.403896	2.454651	2.503771	2.551186	.227462
1.38	2.313169	2.367642	2.420684	2.472168	2.521996	2.570097	.239368
1.39	2.328593	2.383840	2.437638	2.489858	2.540400	2.589193	.251152
1.40	2.344171	2.400199	2.454759	2.507721	2.558984	2.608475	.262818
1.41	2.359905	2.416719	2.472049	2.525760	2.577750	2.627946	.274372
1.42	2.375795	2.433403	2.489508	2.543974	2.596699	2.647606	.285817
1.43	2.391842	2.450251	2.507138	2.562367	2.615831	2.667456	.297159
1.44	2.408048	2.467264	2.524940	2.580937	2.635150	2.687498	.308401
1.45	2.424413	2.484443	2.542915	2.599688	2.654654	2.707734	.319549
1.46	2.440939	2.501790	2.561064	2.618620	2.674347	2.728165	.330606
1.47	2.457626	2.519305	2.579389	2.637735	2.694230	2.748792	.341576
1.48	2.474475	2.536989	2.597891	2.657033	2.714303	2.769617	.352464
1.49	2.491488	2.554844	2.616570	2.676517	2.734569	2.790642	.363272
1.50	2.508666	2.572872	2.635429	2.696187	2.755029	2.811868	.374004

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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$T(y)$
1.50	2.508666	2.572872	2.635429	2.696187	2.755029	2.811868	.374004
1.51	2.526010	2.591072	2.654468	2.716045	2.775684	2.833296	.384665
1.52	2.543520	2.609447	2.673690	2.736093	2.796536	2.854928	.395257
1.53	2.561198	2.627997	2.693094	2.756332	2.817586	2.876766	.405784
1.54	2.579046	2.646725	2.712683	2.776762	2.838836	2.898811	.416249
1.55	2.597064	2.665630	2.732458	2.797386	2.860287	2.921065	.426655
1.56	2.615253	2.684715	2.752421	2.818206	2.881944	2.943530	.437005
1.57	2.633615	2.703981	2.772572	2.839222	2.903800	2.966207	.447303
1.58	2.652152	2.723428	2.792913	2.860436	2.925864	2.989098	.457551
1.59	2.670863	2.743059	2.813446	2.881850	2.948137	3.012204	.467751
1.60	2.689751	2.762875	2.834172	2.903465	2.970619	3.035528	.477908
1.61	2.708817	2.782877	2.855092	2.925284	2.993312	3.059072	.488023
1.62	2.728062	2.803067	2.876208	2.947306	3.016218	3.082836	.498099
1.63	2.747487	2.823445	2.897522	2.969534	3.039338	3.106823	.508138
1.64	2.767094	2.844014	2.919035	2.991971	3.062674	3.131035	.518144
1.65	2.786884	2.864775	2.940748	3.014616	3.086229	3.155473	.528118
1.66	2.806859	2.885729	2.962663	3.037472	3.110002	3.180139	.538063
1.67	2.827019	2.906877	2.984783	3.060541	3.133998	3.205035	.547982
1.68	2.847367	2.928222	3.007107	3.083824	3.158217	3.230164	.557876
1.69	2.867903	2.949765	3.029639	3.107324	3.182660	3.255526	.567747
1.70	2.888630	2.971507	3.052379	3.131041	3.207331	3.281125	.577598
1.71	2.909548	2.993450	3.075329	3.154978	3.232230	3.306961	.587431
1.72	2.930659	3.015596	3.098491	3.179136	3.257361	3.333037	.597249
1.73	2.951964	3.037945	3.121867	3.203517	3.282723	3.359355	.607052
1.74	2.973465	3.060500	3.145458	3.228123	3.308321	3.385917	.616843
1.75	2.995164	3.083263	3.169267	3.252956	3.331454	3.412725	.626624
1.76	3.017062	3.106234	3.193294	3.278018	3.360226	3.439781	.636397
1.77	3.039161	3.129416	3.217542	3.303310	3.386539	3.467087	.646164
1.78	3.061462	3.152810	3.242012	3.328835	3.413094	3.494646	.655926
1.79	3.083966	3.176419	3.266706	3.354594	3.439893	3.522458	.665686
1.80	3.106676	3.200243	3.291626	3.380589	3.466939	3.550528	.675445
1.81	3.129593	3.224284	3.316775	3.406823	3.494234	3.578856	.685204
1.82	3.152718	3.248545	3.342153	3.433297	3.521779	3.607444	.694966
1.83	3.176054	3.273027	3.367763	3.460013	3.549577	3.636297	.704732
1.84	3.199602	3.297731	3.393606	3.486974	3.577630	3.665414	.714504
1.85	3.223364	3.322660	3.419685	3.514181	3.605940	3.694799	.724284
1.86	3.247341	3.347815	3.446001	3.541636	3.634509	3.724455	.734072
1.87	3.271535	3.373199	3.472557	3.569342	3.663340	3.754382	.743871
1.88	3.295948	3.398813	3.499354	3.597301	3.692435	3.784584	.753682
1.89	3.320582	3.424659	3.526394	3.625514	3.721795	3.815064	.763506
1.90	3.345438	3.450739	3.553680	3.653984	3.751424	3.845822	.773346
1.91	3.370518	3.477055	3.581214	3.682713	3.781323	3.876863	.783202
1.92	3.395825	3.503609	3.608997	3.711704	3.811495	3.908188	.793076
1.93	3.421360	3.530402	3.637032	3.740958	3.841943	3.939800	.802969
1.94	3.447124	3.557438	3.665320	3.770478	3.872668	3.971701	.812883
1.95	3.473120	3.584717	3.693865	3.800266	3.903673	4.003893	.822820
1.96	3.499350	3.612242	3.722668	3.830324	3.934961	4.036380	.832780
1.97	3.525816	3.640015	3.751731	3.860655	3.966533	4.069164	.842764
1.98	3.552518	3.668038	3.781057	3.891261	3.998392	4.102248	.852775
1.99	3.579461	3.696313	3.810647	3.922144	4.030542	4.135633	.862814
2.00	3.606645	3.724843	3.840505	3.953307	4.062984	4.169323	.872881

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

$y \backslash \varphi$	1.5	1.6	1.7	1.8	1.9	2.0	$T(y)$
2.00	3.606645	3.724843	3.840505	3.953307	3.062984	4.169323	.872881
2.01	3.634072	3.753629	3.870631	3.984752	4.095720	4.203321	.882979
2.02	3.661745	3.782673	3.901029	4.016482	4.128754	4.237629	.893108
2.03	3.689665	3.811978	3.931702	4.048498	4.162088	4.272249	.903269
2.04	3.717835	3.841546	3.962650	4.080804	4.195725	4.307186	.913464
2.05	3.746257	3.871379	3.993877	4.113403	4.229667	4.342440	.923695
2.06	3.774932	3.901480	4.025385	4.146295	4.263917	4.378016	.933962
2.07	3.803864	3.931850	4.057177	3.179485	4.298478	4.413916	.944266
2.08	3.833053	3.962492	4.089254	4.212974	4.333351	4.450143	.954609
2.09	3.862503	3.993409	4.121619	4.246766	4.368541	4.486699	.964992
2.10	3.892216	4.024602	4.154276	4.280863	4.404050	4.523588	.975416
2.11	3.922193	4.056074	4.187225	4.315267	4.439881	4.560813	.985883
2.12	3.952437	4.087827	4.220471	4.349981	4.476036	4.598376	.996393
2.13	3.982950	4.119865	4.254015	4.385009	4.512519	4.636281	1.006947
2.14	4.013734	4.152188	4.287860	4.420352	4.549331	4.674531	1.017548
2.15	4.044793	4.184800	4.322008	4.456013	4.586477	4.713128	1.028195
2.16	4.076127	4.217704	4.356463	4.491996	4.623959	4.752076	1.038890
2.17	4.107740	4.250901	4.391226	4.528302	4.661780	4.791378	1.049635
2.18	4.139634	4.284394	4.426302	4.564936	4.699943	4.831037	1.060429
2.19	4.171811	4.318186	4.461691	4.601899	4.738451	4.871056	1.071276
2.20	4.204274	4.352279	4.497397	4.639195	4.777308	4.911439	1.082174
2.21	4.237025	4.386676	4.533423	4.676827	4.816515	4.952188	1.093126
2.22	4.270066	4.421380	4.569772	4.714797	4.856077	4.993307	1.104133
2.23	4.303400	4.456392	4.606446	4.753108	4.895997	5.034800	1.115196
2.24	4.337030	4.491717	4.643449	4.791764	4.936277	5.076669	1.126316
2.25	4.370958	4.527356	4.680782	4.830768	4.976920	5.118918	1.137494
2.26	4.405187	4.563313	4.718449	4.870122	5.017931	5.161551	1.148730
2.27	4.439719	4.599590	4.756454	4.909830	5.059313	5.204570	1.160027
2.28	4.474557	4.636189	4.794798	4.949895	5.101068	5.247980	1.171385
2.29	4.509703	4.673114	4.833485	4.990319	5.143200	5.291783	1.182806
2.30	4.545160	4.710368	4.872518	5.031107	5.185712	5.335984	1.194290
2.31	4.580932	4.747953	4.911899	5.072261	5.228608	5.380585	1.205838
2.32	4.617019	4.785872	4.951633	5.113785	5.271891	5.425591	1.217451
2.33	4.653427	4.824129	4.991722	5.155682	5.315565	5.471005	1.229132
2.34	4.690156	4.862725	5.032169	5.197955	5.359632	5.516831	1.240880
2.35	4.727210	4.901665	5.072977	5.240607	5.404098	5.563072	1.252696
2.36	4.764591	4.940951	5.114150	5.283643	5.448965	5.609733	1.264583
2.37	4.802304	4.980585	5.155690	5.327064	5.494236	5.656816	1.276540
2.38	4.840349	5.020572	5.197602	5.370876	5.539916	5.704326	1.288569
2.39	4.878731	5.060914	5.239888	5.415080	5.586007	5.752267	1.300672
2.40	4.917452	5.101615	5.282551	5.459682	5.632515	5.800643	1.312848
2.41	4.956515	5.142677	5.325595	5.504683	5.679442	5.849456	1.325099
2.42	4.995924	5.184104	5.369024	5.550089	5.726792	5.898713	1.337426
2.43	5.035680	5.225898	5.412840	5.595902	5.774569	5.948415	1.349831
2.44	5.075788	5.268064	5.457047	5.642126	5.822777	5.998568	1.362314
2.45	5.116250	5.310604	5.501649	5.688764	5.871420	6.049176	1.374876
2.46	5.157069	5.353522	5.546649	5.735821	5.920501	6.100242	1.387519
2.47	5.198248	5.396820	5.592050	5.783300	5.970025	6.151771	1.400243
2.48	5.239792	5.440503	5.637857	5.831205	6.019996	6.203766	1.413050
2.49	5.281702	5.484574	5.684072	5.879540	6.070417	6.256233	1.425940
2.50	5.323982	5.529036	5.730700	5.928309	6.121292	6.309176	1.438915

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

$y \backslash \rho$	1.5	1.6	1.7	1.8	1.9	2.0	$T(y)$
2.50	5.323982	5.529036	5.730700	5.928309	6.121292	6.309176	1.438915
2.51	5.366635	5.573893	5.777744	5.977514	6.172627	6.362598	1.451976
2.52	5.409665	5.619147	5.825207	6.027162	6.221424	6.416504	1.465124
2.53	5.453074	5.664804	5.873094	6.077254	6.276688	6.470898	1.478360
2.54	5.496867	5.710865	5.921409	6.127796	6.329423	6.525786	1.491685
2.55	5.541046	5.757335	5.970154	6.178791	6.382634	6.581170	1.505100
2.56	5.585616	5.804218	6.019334	6.230244	6.436325	6.637057	1.518606
2.57	5.630578	5.851516	6.068953	6.282158	6.490499	6.693450	1.532204
2.58	5.675937	5.899235	6.119015	6.334537	6.545162	6.750354	1.545896
2.59	5.721697	5.947376	6.169523	6.387387	6.600318	6.807774	1.559683
2.60	5.767860	5.995945	6.220482	6.440710	6.655971	6.865714	1.573565
2.61	5.814431	6.044945	6.271896	6.494512	6.712127	6.924179	1.587544
2.62	5.861412	6.094380	6.323768	6.548797	6.768788	6.983173	1.601620
2.63	5.908809	6.144253	6.376104	6.603568	6.825960	7.042703	1.615796
2.64	5.956623	6.194568	6.428906	6.658831	6.883648	7.102772	1.630072
2.65	6.004859	6.245331	6.482179	6.714589	6.941856	7.163386	1.644449
2.66	6.053521	6.296543	6.535927	6.770848	7.000589	7.224548	1.658929
2.67	6.102612	6.348210	6.590155	6.827611	7.059852	7.286266	1.673512
2.68	6.152137	6.400336	6.644867	6.884883	7.119649	7.348542	1.688199
2.69	6.202098	6.452924	6.700067	6.942670	7.179985	7.411383	1.702993
2.70	6.252501	6.505979	6.755760	7.000975	7.240866	7.474794	1.717893
2.71	6.303348	6.559504	6.811950	7.059803	7.302295	7.538780	1.732902
2.72	6.354644	6.613505	6.868641	7.119158	7.364279	7.603346	1.748020
2.73	6.406392	6.667984	6.925838	7.179047	7.426822	7.668497	1.763248
2.74	6.458597	6.722948	6.983546	7.239472	7.489929	7.734239	1.778588
2.75	6.511263	6.778399	7.041768	7.300440	7.553606	7.800577	1.794041
2.76	6.564394	6.834342	7.100510	7.361956	7.617856	7.867516	1.809608
2.77	6.617994	6.890782	7.159777	7.424023	7.682687	7.935063	1.825291
2.78	6.672066	6.947723	7.219573	7.486647	7.748103	8.003222	1.841089
2.79	6.726616	7.005169	7.279902	7.549834	7.814108	8.071999	1.857006
2.80	6.781648	7.063126	7.340770	7.613587	7.880710	8.141400	1.873041
2.81	6.837165	7.121597	7.402181	7.677913	7.947912	8.211431	1.889197
2.82	6.893173	7.180587	7.464141	7.742817	8.015721	8.282097	1.905473
2.83	6.949674	7.240100	7.526654	7.808303	8.084143	8.353404	1.921873
2.84	7.006675	7.300143	7.589725	7.874377	8.153181	8.425358	1.938396
2.85	7.064179	7.360718	7.653360	7.941044	8.222843	8.497965	1.955044
2.86	7.122191	7.421832	7.717563	8.008310	8.293134	8.571230	1.971819
2.87	7.180715	7.483488	7.782339	8.076180	8.364059	8.645161	1.988721
2.88	7.239756	7.545692	7.847694	8.144660	8.435625	8.719762	2.005753
2.89	7.299318	7.608448	7.913632	8.213755	8.507837	8.795040	2.022914
2.90	7.359407	7.671762	7.980160	8.283471	8.580701	8.871002	2.040207
2.91	7.420026	7.735638	8.047282	8.353812	8.654223	8.947653	2.057633
2.92	7.481181	7.800082	8.115004	8.424786	8.728409	9.025000	2.075193
2.93	7.542876	7.865098	8.183331	8.496397	8.803266	9.103050	2.092888
2.94	7.605116	7.930693	8.252268	8.568652	8.878798	9.181808	2.110721
2.95	7.667906	7.996870	8.321822	8.641556	8.955013	9.261281	2.128691
2.96	7.731250	8.063635	8.391997	8.715116	9.031916	9.341475	2.146801
2.97	7.795155	8.130994	8.462800	8.789336	9.109514	9.422398	2.165052
2.98	7.859624	8.198951	8.534235	8.864224	9.187814	9.504056	2.183445
2.99	7.924664	8.267513	8.606309	8.939785	9.266821	9.586456	2.201981
3.00	7.990278	8.336684	8.679028	9.016025	9.346542	9.669604	2.220663

Table of  $R^*(y, 1/4)$  and  $T^*(y)$ 

$y$	0.5	0.4	0.3	0.2	0.1	$R(y, 0.0)$	$T^*(y)$
.00	.662501	.725427	.792437	.861380	.930685	1.000000	-1.000000
.01	.669397	.732807	.800414	.870032	.940036	1.010050	-.999950
.02	.676339	.740242	.808457	.878762	.949476	1.020201	-.999800
.03	.683329	.747733	.816565	.887570	.959006	1.030455	-.999550
.04	.690366	.755280	.824740	.896455	.968627	1.040811	-.999200
.05	.697451	.762884	.832982	.905421	.978339	1.051271	-.998749
.06	.704585	.770545	.841292	.914466	.988144	1.061837	-.998198
.07	.711769	.778264	.849671	.923592	.998042	1.072508	-.997547
.08	.719002	.786042	.858119	.932799	1.008035	1.083287	-.996795
.09	.726285	.793878	.866637	.942090	1.018123	1.094174	-.995942
.10	.733620	.801774	.875226	.951463	1.028308	1.105171	-.994987
.11	.741005	.809731	.883886	.960921	1.038590	1.116278	-.993932
.12	.748442	.817749	.892619	.970463	1.048970	1.127497	-.992774
.13	.755932	.825828	.901424	.980092	1.059449	1.138828	-.991514
.14	.763474	.833969	.910303	.989807	1.070029	1.150274	-.990152
.15	.771070	.842173	.919256	.999609	1.080710	1.161834	-.988687
.16	.778720	.850440	.928284	1.009501	1.091493	1.173511	-.987118
.17	.786424	.858771	.937388	1.019481	1.102380	1.185305	-.985445
.18	.794183	.867167	.946569	1.029552	1.113371	1.197217	-.983669
.19	.801998	.875628	.955827	1.039713	1.124467	1.209250	-.981787
.20	.809869	.884155	.965162	1.049967	1.135670	1.221403	-.979800
.21	.817797	.892748	.974577	1.060313	1.146980	1.233678	-.977706
.22	.825782	.901409	.984072	1.070754	1.158399	1.246077	-.975506
.23	.833825	.910138	.993646	1.081289	1.169927	1.258600	-.973199
.24	.841926	.918935	1.003302	1.091920	1.181567	1.271249	-.970784
.25	.850086	.927802	1.013040	1.102647	1.193318	1.284025	-.968260
.26	.858306	.936738	1.022861	1.113472	1.205182	1.296930	-.965627
.27	.866585	.945745	1.032766	1.124396	1.217161	1.309964	-.962883
.28	.874926	.954823	1.042755	1.135419	1.229254	1.323130	-.960028
.29	.883328	.963973	1.052829	1.146543	1.241464	1.336427	-.957062
.30	.891792	.973196	1.062989	1.157769	1.253792	1.349859	-.953982
.31	.900318	.982492	1.073236	1.169097	1.266238	1.363425	-.950789
.32	.908908	.991863	1.083571	1.180528	1.278804	1.377128	-.947482
.33	.917561	1.001308	1.093995	1.192064	1.291492	1.390968	-.944059
.34	.926279	1.010829	1.104508	1.203706	1.304302	1.404948	-.940519
.35	.935062	1.020426	1.115112	1.215454	1.317235	1.419068	-.936861
.36	.943910	1.030100	1.125807	1.227310	1.330293	1.433329	-.933085
.37	.952825	1.039852	1.136594	1.239275	1.343477	1.447735	-.929189
.38	.961807	1.049683	1.147474	1.251350	1.356789	1.462285	-.925173
.39	.970856	1.059593	1.158448	1.263536	1.370229	1.476981	-.921034
.40	.979974	1.069583	1.169518	1.275833	1.383799	1.491825	-.916772
.41	.989161	1.079653	1.180683	1.288244	1.397500	1.506818	-.912385
.42	.998417	1.089806	1.191944	1.300769	1.411334	1.521962	-.907872
.43	1.007743	1.100041	1.203304	1.313410	1.425301	1.537258	-.903232
.44	1.017141	1.110359	1.214762	1.326167	1.439403	1.552707	-.898464
.45	1.026610	1.120761	1.226320	1.339042	1.453642	1.568312	-.893566
.46	1.036151	1.131248	1.237978	1.352035	1.468019	1.584074	-.888537
.47	1.045765	1.141820	1.249738	1.365149	1.482535	1.599994	-.883375
.48	1.055453	1.152479	1.261601	1.378384	1.497192	1.616074	-.878079
.49	1.065216	1.163226	1.273567	1.391741	1.511990	1.632316	-.872647
.50	1.075053	1.174060	1.285638	1.405222	1.526932	1.648721	-.867078

$$R(y, 1/4) = R^*(y, 1/4) + \frac{1-y}{y} U(1/4) \quad T(y) = T^*(y)/y^2$$

Table of  $R(y, 1/4)$  and  $T(y)$ 

$y \backslash 1/4$	0.5	0.4	0.3	0.2	0.1	0.0	$T(y)$
.50	1.526708	1.540328	1.562100	1.589794	1.619223	1.648721	-3.468313
.51	1.531378	1.547022	1.571091	1.601274	1.633247	1.665291	-3.311690
.52	1.536263	1.553916	1.580273	1.612937	1.647445	1.682028	-3.163914
.53	1.541359	1.561009	1.589643	1.624780	1.661818	1.698932	-3.024321
.54	1.546659	1.568295	1.599198	1.636803	1.676366	1.716007	-2.892310
.55	1.552160	1.575771	1.608936	1.649005	1.691089	1.733253	-2.767332
.56	1.557857	1.583435	1.618857	1.661385	1.705987	1.750673	-2.648887
.57	1.563747	1.591284	1.628957	1.673943	1.721062	1.768267	-2.536519
.58	1.569826	1.599314	1.639235	1.686678	1.736314	1.786038	-2.429809
.59	1.576091	1.607524	1.649691	1.699590	1.751744	1.803988	-2.328376
.60	1.582537	1.615912	1.660321	1.712678	1.767352	1.822119	-2.231870
.61	1.589164	1.624474	1.671127	1.725943	1.783140	1.840431	-2.139967
.62	1.595967	1.633210	1.682105	1.739385	1.799108	1.858928	-2.052371
.63	1.602944	1.642117	1.693256	1.753002	1.815256	1.877611	-1.968809
.64	1.610092	1.651194	1.704579	1.766797	1.831587	1.896481	-1.889029
.65	1.617411	1.660440	1.716073	1.780767	1.848101	1.915541	-1.812799
.66	1.624896	1.669853	1.727738	1.794915	1.864800	1.934792	-1.739902
.67	1.632548	1.679431	1.739572	1.809240	1.881683	1.954237	-1.670140
.68	1.640362	1.689175	1.751576	1.823742	1.898753	1.973878	-1.603328
.69	1.648340	1.699082	1.763749	1.838423	1.916011	1.993716	-1.539294
.70	1.656477	1.709152	1.776092	1.853281	1.933457	2.013753	-1.477878
.71	1.664774	1.719384	1.788603	1.868319	1.951094	2.033991	-1.418934
.72	1.673228	1.729777	1.801283	1.883537	1.968923	2.054433	-1.362322
.73	1.681840	1.740331	1.814132	1.898935	1.986944	2.075081	-1.307914
.74	1.690606	1.751045	1.827150	1.914514	2.005159	2.095936	-1.255589
.75	1.699528	1.761918	1.840337	1.930275	2.023570	2.117000	-1.205237
.76	1.708603	1.772951	1.853694	1.946218	2.042179	2.138276	-1.156751
.77	1.717830	1.784143	1.867219	1.962345	2.060986	2.159766	-1.110035
.78	1.727210	1.795493	1.880915	1.978657	2.079993	2.181472	-1.064996
.79	1.736741	1.807002	1.894780	1.995153	2.099201	2.203396	-1.021547
.80	1.746423	1.818669	1.908816	2.011836	2.118614	2.225541	-.979610
.81	1.756255	1.830494	1.923023	2.028707	2.138231	2.247908	-.939107
.82	1.766236	1.842478	1.937402	2.045766	2.158054	2.270500	-.899967
.83	1.776367	1.854620	1.951952	2.063014	2.178086	2.293319	-.862124
.84	1.786647	1.866920	1.966675	2.080453	2.198328	2.316367	-.825515
.85	1.797076	1.879379	1.981571	2.098084	2.218782	2.339647	-.790079
.86	1.807653	1.891996	1.996642	2.115909	2.239449	2.363161	-.755763
.87	1.818378	1.904772	2.011887	2.133927	2.260332	2.386911	-.722511
.88	1.829252	1.917708	2.027307	2.152141	2.281431	2.410900	-.690276
.89	1.840274	1.930803	2.042903	2.170552	2.302750	2.435130	-.659010
.90	1.851443	1.944058	2.058677	2.189162	2.324289	2.459603	-.628668
.91	1.862761	1.957473	2.074628	2.207971	2.346052	2.484323	-.599209
.92	1.874227	1.971049	2.090758	2.226981	2.368039	2.509290	-.570593
.93	1.885841	1.984787	2.107068	2.246193	2.390252	2.534509	-.542782
.94	1.897603	1.998686	2.123559	2.265610	2.412695	2.559981	-.515741
.95	1.909515	2.012747	2.140231	2.285232	2.435368	2.585710	-.489435
.96	1.921574	2.026972	2.157086	2.305062	2.458274	2.611696	-.463834
.97	1.933783	2.041359	2.174125	2.325100	2.481415	2.637944	-.438905
.98	1.946142	2.055911	2.191349	2.345348	2.504793	2.664456	-.414622
.99	1.958650	2.070629	2.208759	2.365808	2.528410	2.691234	-.390955
1.00	1.971308	2.085511	2.226356	2.386481	2.552268	2.718282	-.367879

Table of  $R(y, 1/4)$  and  $T(y)$ 

$y \backslash 1/4$	.5	.4	.3	.2	.1	.0	$T(y)$
1.00	1.971308	2.085511	2.226356	2.386481	2.552268	2.718282	-.367879
1.01	1.984116	2.100560	2.241111	2.407370	2.576370	2.745601	-.345370
1.02	1.997076	2.115777	2.262116	2.428476	2.600717	2.773195	-.323403
1.03	2.010187	2.131161	2.280282	2.449800	2.625312	2.801066	-.301957
1.04	2.023449	2.146714	2.298640	2.471344	2.650158	2.829217	-.281009
1.05	2.036865	2.162437	2.317192	2.493111	2.675256	2.857651	-.260540
1.06	2.050433	2.178330	2.335938	2.515102	2.700609	2.886371	-.240529
1.07	2.064155	2.194395	2.354881	2.537319	2.726219	2.915379	-.220959
1.08	2.078030	2.210633	2.374021	2.559763	2.752089	2.944680	-.201811
1.09	2.092061	2.227044	2.393360	2.582437	2.778221	2.974274	-.183069
1.10	2.106247	2.243630	2.412899	2.605343	2.804617	3.004166	-.164716
1.11	2.120590	2.260391	2.432640	2.628482	2.831280	3.034358	-.146737
1.12	2.135089	2.277329	2.452584	2.651857	2.858213	3.064854	-.129118
1.13	2.149746	2.294445	2.472734	2.675469	2.885418	3.095657	-.111843
1.14	2.164562	2.311740	2.493090	2.699321	2.912897	3.126768	-.094900
1.15	2.179537	2.329214	2.513653	2.723415	2.940653	3.158193	-.078276
1.16	2.194672	2.346870	2.534426	2.747752	2.968689	3.189933	-.061958
1.17	2.209967	2.364708	2.555411	2.772335	2.997008	3.221993	-.045934
1.18	2.225425	2.382730	2.576608	2.797166	3.025611	3.254374	-.030193
1.19	2.241045	2.400936	2.598020	2.822248	3.054502	3.287081	-.014723
1.20	2.256829	2.419329	2.619648	2.847581	3.083684	3.320117	.000485
1.21	2.272778	2.437909	2.641494	2.873170	3.113159	3.353485	.015441
1.22	2.288892	2.456677	2.663559	2.899015	3.142930	3.387188	.030157
1.23	2.305172	2.475636	2.685846	2.925119	3.173000	3.421230	.044640
1.24	2.321620	2.494786	2.708356	2.951485	3.203372	3.455613	.058899
1.25	2.338237	2.514128	2.731091	2.978115	3.234049	3.490343	.072944
1.26	2.355023	2.533665	2.754053	3.005011	3.265033	3.525421	.086782
1.27	2.371980	2.553397	2.777244	3.032175	3.296327	3.560853	.100422
1.28	2.389108	2.573327	2.800666	3.059610	3.327935	3.596640	.113871
1.29	2.406410	2.593454	2.824320	3.087319	3.359860	3.632787	.127137
1.30	2.423885	2.613782	2.848208	3.115304	3.392104	3.669297	.140227
1.31	2.441536	2.634311	2.872333	3.143568	3.424671	3.706174	.153147
1.32	2.459363	2.655043	2.896697	3.172112	3.457563	3.743421	.165904
1.33	2.477367	2.675980	2.921300	3.200940	3.490785	3.781043	.178504
1.34	2.495551	2.697122	2.946147	3.230054	3.524338	3.819044	.190955
1.35	2.513914	2.718473	2.971238	3.259457	3.558227	3.857426	.203260
1.36	2.532459	2.740032	2.996576	3.289151	3.592455	3.896193	.215428
1.37	2.551186	2.761803	3.022162	3.319140	3.627024	3.935351	.227462
1.38	2.570097	2.783786	3.048000	3.349425	3.661938	3.974902	.239368
1.39	2.589193	2.805984	3.074190	3.380010	3.697201	4.014850	.251152
1.40	2.608475	2.828398	3.100436	3.410897	3.732816	4.055200	.262818
1.41	2.627946	2.851029	3.127040	3.442089	3.768786	4.095955	.274372
1.42	2.647606	2.873880	3.153903	3.473590	3.805114	4.137120	.285817
1.43	2.667456	2.896952	3.181028	3.505401	3.841805	4.178699	.297159
1.44	2.687498	2.920248	3.208418	3.537526	3.878862	4.220696	.308401
1.45	2.707734	2.943768	3.236074	3.569968	3.916288	4.263115	.319549
1.46	2.728165	2.967515	3.263999	3.602729	3.954087	4.305960	.330606
1.47	2.748792	2.991491	3.292196	3.635813	3.992263	4.349235	.341576
1.48	2.769617	3.015697	3.320667	3.669223	4.030819	4.392946	.352464
1.49	2.790642	3.040136	3.349414	3.702961	4.069759	4.437096	.363272
1.50	2.811868	3.064809	3.378439	3.737032	4.109086	4.481689	.374004

Table of  $R(y, 1/4)$  and  $T(y)$ 

$y \ 1/4$	.5	.4	.3	.2	.1	0	$T(y)$
1.50	2.811868	3.064809	3.378439	3.737032	4.109086	4.481689	.374004
1.51	2.833296	3.089718	3.407746	3.771437	4.148805	4.526731	.384665
1.52	2.854928	3.114866	3.437336	3.806180	4.188919	4.572225	.395257
1.53	2.876766	3.140253	3.467213	3.841264	4.229433	4.618177	.405784
1.54	2.898811	3.165884	3.497378	3.876693	4.270349	4.664590	.416249
1.55	2.921065	3.191758	3.527835	3.912470	4.311673	4.711470	.426655
1.56	2.943530	3.217879	3.558586	3.948598	4.353408	4.758821	.437005
1.57	2.966207	3.244249	3.589633	3.985080	4.395557	4.806648	.447303
1.58	2.989098	3.270869	3.620980	4.021920	4.438126	4.854956	.457551
1.59	3.012204	3.297742	3.652629	4.059121	4.481118	4.903749	.467751
1.60	3.035528	3.324870	3.684583	4.096686	4.524537	4.953032	.477908
1.61	3.059072	3.352255	3.716844	4.134619	4.568388	5.002811	.488023
1.62	3.082836	3.379899	3.749415	4.172924	4.612675	5.053090	.498099
1.63	3.106823	3.407805	3.782300	4.211604	4.657402	5.103875	.508138
1.64	3.131035	3.435975	3.815501	4.250662	4.702573	5.155170	.518144
1.65	3.155473	3.464411	3.849021	4.290103	4.748193	5.206980	.528118
1.66	3.180139	3.493116	3.882862	4.329929	4.794266	5.259311	.538063
1.67	3.205035	3.522091	3.917028	4.370145	4.840797	5.312168	.547982
1.68	3.230164	3.551339	3.951522	4.4110754	4.887790	5.365556	.557876
1.69	3.255526	3.580863	3.986347	4.451760	4.935250	5.419481	.567747
1.70	3.281125	3.610665	4.021505	4.493166	4.983181	5.473947	.577598
1.71	3.306961	3.640747	4.057001	4.534977	5.031587	5.528961	.587431
1.72	3.333037	3.671113	4.092836	4.577197	5.080475	5.584528	.597249
1.73	3.359355	3.701763	4.129014	4.619829	5.129848	5.640654	.607052
1.74	3.385917	3.732701	4.165539	4.662877	5.179710	5.697343	.616843
1.75	3.412725	3.763930	4.202413	4.706346	5.230068	5.754603	.626624
1.76	3.439781	3.795451	4.239640	4.750239	5.280926	5.812437	.636397
1.77	3.467087	3.827269	4.277222	4.794560	5.332288	5.870853	.646164
1.78	3.494646	3.859384	4.315164	4.839314	5.384160	5.929856	.655926
1.79	3.522458	3.891800	4.353468	4.884504	5.436547	5.989452	.665686
1.80	3.550528	3.924519	4.392138	4.930136	5.489453	6.049647	.675445
1.81	3.578856	3.957545	4.431178	4.976212	5.542885	6.110447	.685204
1.82	3.607444	3.990880	4.470590	5.022738	5.596847	6.171858	.694966
1.83	3.636297	4.024526	4.510378	5.069717	5.651343	6.233887	.704732
1.84	3.665414	4.058486	4.550546	5.117154	5.706381	6.296538	.714504
1.85	3.694799	4.092764	4.591097	5.165054	5.761965	6.359820	.724284
1.86	3.724455	4.127362	4.632035	5.213421	5.818099	6.423737	.734072
1.87	3.754382	4.162283	4.673363	5.262259	5.874791	6.488296	.743871
1.88	3.784584	4.197530	4.715085	5.311573	5.932045	6.553505	.753682
1.89	3.815064	4.233106	4.757205	5.361368	5.989867	6.619369	.763506
1.90	3.845822	4.269013	4.799726	5.411647	6.048262	6.685894	.773346
1.91	3.876863	4.305255	4.842653	5.462417	6.107236	6.753089	.783202
1.92	3.908188	4.341834	4.885988	5.513681	6.166795	6.820958	.793076
1.93	3.939800	4.378755	4.929736	5.565444	6.226945	6.889510	.802969
1.94	3.971701	4.416019	4.973900	5.617711	6.287691	6.958751	.812883
1.95	4.003893	4.453630	5.018486	5.670488	6.349040	7.028688	.822820
1.96	4.036380	4.491592	5.063495	5.723778	6.410997	7.099327	.832780
1.97	4.069164	4.529906	5.108933	5.777588	6.473568	7.170676	.842764
1.98	4.102248	4.568577	5.154803	5.831921	6.536759	7.242743	.852775
1.99	4.135633	4.607608	5.201110	5.886783	6.600577	7.315534	.862814
2.00	4.169323	4.647001	5.247857	5.942179	6.665028	7.389056	.872881



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

$y \backslash \varphi$	.5	.4	.3	.2	.1	0	(y)
2.00	4.169323	4.617001	5.247857	5.942179	6.665028	7.389056	.872881
2.01	4.203321	4.686761	5.295050	5.998115	6.730118	7.463317	.882979
2.02	4.237629	4.726890	5.342690	6.054595	6.795853	7.538325	.893108
2.03	4.272249	4.767392	5.390785	6.111624	6.862240	7.614086	.903269
2.04	4.307186	4.808271	5.439336	6.169209	6.929284	7.690609	.913464
2.05	4.342440	4.849529	5.488349	6.227354	6.996994	7.767901	.923695
2.06	4.378016	4.891170	5.537828	6.286065	7.065374	7.845970	.933962
2.07	4.413916	4.933198	5.587777	6.345348	7.134433	7.924823	.944266
2.08	4.450143	4.975617	5.638202	6.405207	7.204176	8.004469	.954609
2.09	4.486699	5.018429	5.689105	6.465648	7.274610	8.084915	.964992
2.10	4.523588	5.061638	5.740493	6.526678	7.345743	8.166170	.975416
2.11	4.560813	5.105248	5.792368	6.588302	7.417581	8.248241	.985883
2.12	4.598376	5.149263	5.844737	6.650525	7.490130	8.331137	.996393
2.13	4.636281	5.193686	5.897603	6.713354	7.563399	8.414867	1.006947
2.14	4.674531	5.238522	5.950972	6.776793	7.637394	8.499438	1.017548
2.15	4.713128	5.283773	6.004848	6.840850	7.712123	8.584858	1.028195
2.16	4.752076	5.329444	6.059235	6.905531	7.787592	8.671138	1.038890
2.17	4.791378	5.375538	6.114139	6.970840	7.863809	8.758284	1.049635
2.18	4.831037	5.422059	6.169565	7.036785	7.940782	8.846306	1.060429
2.19	4.871056	5.469012	6.225517	7.103371	8.018518	8.935213	1.071276
2.20	4.911439	5.516401	6.282001	7.170605	8.097024	9.025013	1.082174
2.21	4.952188	5.564228	6.339021	7.238493	8.176308	9.115716	1.093126
2.22	4.993307	5.612499	6.396583	7.307041	8.256378	9.207331	1.104133
2.23	5.034800	5.661217	6.454692	7.376256	8.337242	9.299866	1.115196
2.24	5.076669	5.710386	6.513352	7.446145	8.418907	9.393331	1.126316
2.25	5.118918	5.760012	6.572570	7.516713	8.501382	9.487736	1.137494
2.26	5.161551	5.810097	6.632349	7.587968	8.584674	9.583089	1.148730
2.27	5.204570	5.860646	6.692697	7.659915	8.668791	9.679401	1.160027
2.28	5.247980	5.911663	6.753618	7.732563	8.753743	9.776680	1.171385
2.29	5.291783	5.963153	6.815117	7.805917	8.839536	9.874938	1.182806
2.30	5.335984	6.015120	6.877200	7.879985	8.926180	9.974182	1.194290
2.31	5.380585	6.067568	6.939873	7.954773	9.013682	10.074425	1.205838
2.32	5.425591	6.120502	7.003140	8.030289	9.102052	10.175674	1.217451
2.33	5.471005	6.173927	7.067009	8.106539	9.191298	10.277942	1.229132
2.34	5.516831	6.227846	7.131484	8.183531	9.281428	10.381237	1.240880
2.35	5.563072	6.282265	7.196571	8.261272	9.372452	10.485570	1.252696
2.36	5.609733	6.337187	7.262277	8.339769	9.464377	10.590951	1.264583
2.37	5.656816	6.392619	7.328606	8.419029	9.557214	10.697392	1.276540
2.38	5.704326	6.448564	7.395565	8.499061	9.650972	10.804903	1.288569
2.39	5.752267	6.505026	7.463160	8.579871	9.745658	10.913494	1.300672
2.40	5.800643	6.562012	7.531397	8.661467	9.841283	11.023176	1.312848
2.41	5.849456	6.619526	7.600281	8.743857	9.937856	11.133961	1.325099
2.42	5.898713	6.677572	7.669820	8.827048	10.035386	11.245859	1.337426
2.43	5.948415	6.736156	7.740019	8.911049	10.133883	11.358882	1.349831
2.44	5.998568	6.795282	7.810885	8.995867	10.233357	11.473041	1.362314
2.45	6.049176	6.854956	7.882424	9.081510	10.333816	11.588347	1.374876
2.46	6.100242	6.915182	7.954642	9.167986	10.435271	11.704812	1.387519
2.47	6.151771	6.975966	8.027546	9.255303	10.537732	11.822447	1.400243
2.48	6.203766	7.037313	8.101142	9.343470	10.641208	11.941264	1.413050
2.49	6.256233	7.099229	8.175438	9.432495	10.745711	12.061276	1.425940
2.50	6.309176	7.161717	8.250438	9.522386	10.851249	12.182494	1.438915

Table of  $R(y, 1/4)$  and  $T(y)$ 

$y \setminus 1/4$	.5	.4	.3	.2	.1	0	$T(y)$
2.50	6.309176	7.161717	8.250438	9.522386	10.851249	12.182494	1.438915
2.51	6.362598	7.224785	8.326152	9.613151	10.957833	12.304930	1.451976
2.52	6.416504	7.288436	8.402584	9.704800	11.065474	12.428597	1.465124
2.53	6.470898	7.352677	8.479742	9.797340	11.174182	12.553506	1.478360
2.54	6.525786	7.417513	8.557633	9.890780	11.283968	12.679671	1.491685
2.55	6.581170	7.482950	8.636264	9.985130	11.394842	12.807104	1.505100
2.56	6.637057	7.548993	8.715642	10.080398	11.506816	12.935817	1.518606
2.57	6.693450	7.615647	8.795774	10.176593	11.619899	13.065824	1.532204
2.58	6.750354	7.682919	8.876667	10.273724	11.734103	13.197138	1.545896
2.59	6.807774	7.750814	8.958329	10.371800	11.849440	13.329772	1.559683
2.60	6.865714	7.819338	9.040766	10.470831	11.965920	13.463738	1.573565
2.61	6.924179	7.888497	9.123986	10.570825	12.083555	13.599051	1.587544
2.62	6.983173	7.958296	9.207998	10.671792	12.202357	13.735724	1.601620
2.63	7.042703	8.028742	9.292807	10.773743	12.322336	13.873770	1.615796
2.64	7.102772	8.099841	9.378422	10.876685	13.443505	14.013204	1.630072
2.65	7.163386	8.171599	9.464851	10.980629	12.565875	14.154039	1.644449
2.66	7.224548	8.244021	9.552101	11.085585	12.689459	14.296289	1.658929
2.67	7.286266	8.317115	9.640180	11.191563	12.814267	14.439969	1.673512
2.68	7.348542	8.390886	9.729096	11.298572	12.940314	14.585093	1.688199
2.69	7.411383	8.465340	9.818857	11.406622	13.067610	14.731676	1.702993
2.70	7.474794	8.540485	9.909471	11.515725	13.196168	14.879732	1.717893
2.71	7.538780	8.616326	10.000946	11.625889	13.326002	15.029276	1.732902
2.72	7.603346	8.692870	10.093291	11.737126	13.457122	15.180322	1.748020
2.73	7.668497	8.770124	10.186514	11.849446	13.589543	15.332887	1.763248
2.74	7.734239	8.848093	10.280622	11.962860	13.723277	15.486985	1.778588
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2.76	7.867516	9.006208	10.471532	12.193010	13.994737	15.799843	1.809608
2.77	7.935063	9.086366	10.568351	12.309768	14.132489	15.958634	1.825291
2.78	8.003222	9.167267	10.666089	12.427664	14.271607	16.119021	1.841089
2.79	8.071999	9.248919	10.764757	12.546707	14.412105	16.281020	1.857006
2.80	8.141400	9.331328	10.864364	12.666909	14.553997	16.444647	1.873041
2.81	8.211431	9.414501	10.964917	12.788282	14.697295	16.609918	1.889197
2.82	8.282097	9.498445	11.066427	12.910837	14.842015	16.776851	1.905473
2.83	8.353404	9.583168	11.168902	13.034585	14.988170	16.945461	1.921873
2.84	8.425358	9.668677	11.272351	13.159539	15.135774	17.115766	1.938396
2.85	8.497965	9.754978	11.376784	13.285710	15.284843	17.287782	1.955044
2.86	8.571230	9.842081	11.482211	13.413109	15.435390	17.461527	1.971819
2.87	8.645161	9.929991	11.588641	13.541749	15.587430	17.637018	1.988721
2.88	8.719762	10.018717	11.696083	13.671643	15.740978	17.814273	2.005753
2.89	8.795040	10.108267	11.804547	13.802801	15.896050	17.993310	2.022914
2.90	8.871002	10.198647	11.914043	13.935237	16.052659	18.174115	2.040207
2.91	8.947653	10.289866	12.024580	14.068963	16.210822	18.356799	2.057633
2.92	9.025000	10.381931	12.136170	14.203992	16.370554	18.541287	2.075193
2.93	9.103050	10.474851	12.248821	14.340337	16.531870	18.727630	2.092888
2.94	9.181808	10.568634	12.362544	14.478010	16.694786	18.915846	2.110721
2.95	9.261281	10.663287	12.477350	14.617024	16.859319	19.105954	2.128691
2.96	9.341475	10.758818	12.593248	14.757392	17.025484	19.297972	2.146801
2.97	9.422398	10.855237	12.710249	14.899129	17.193297	19.491920	2.165052
2.98	9.504056	10.952551	12.828363	15.042246	17.362775	19.687817	2.183445
2.99	9.586456	11.050768	12.947602	15.186758	17.533934	19.885682	2.201981
3.00	9.669604	11.149897	13.067976	15.332678	17.706792	20.085537	2.220663

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