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TABULATION OF LEGENDRE FUNCTIONS AND CONICAL FUNCTIONS

by

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OCTOBER 1964

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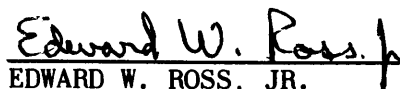
TABULATION OF LEGENDRE FUNCTIONS AND CONICAL FUNCTIONS

(i) $P_\nu(\cos \theta), Q_\nu(\cos \theta)$

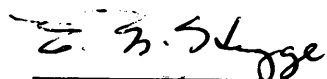
(ii) $P_{-\frac{1}{2}+ib}(\cos \theta), \frac{dP_{-\frac{1}{2}+ib}(\cos \theta)}{d\theta}$

ABSTRACT

This report presents tabulations of several different classes of Legendre functions. First, the functions $P_\nu(\cos \theta)$ and $Q_\nu(\cos \theta)$ for real, fractional ν and real θ are given in the range $-0.5 \leq \nu \leq 3.5$, $0 \leq \theta < 180^\circ$ at intervals $\Delta\nu = 0.02$, $\Delta\theta = 2^\circ$. The tabular values are given to six decimal places with a possible error of one in the sixth digit. Second, the conical functions, $P_{-\frac{1}{2}+ib}(\cos \theta)$, and their derivatives $dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$ for real b and θ are given in the range $0 \leq b \leq 5$, $0 \leq \theta < 180^\circ$ at the somewhat coarser mesh, $\Delta b = 0.1$, $\Delta\theta = 5^\circ$. These tabular values are given only to five significant figures with a percentage absolute error that should not exceed one in the fifth figure.


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CONTENTS

	Page
ABSTRACT	
I. INTRODUCTION	3
II. BASIC FORMULAS RELATING TO LEGENDRE FUNCTIONS	3
III. CONSTRUCTION OF THE TABLES	8
IV. DISCUSSION OF ACCURACY	9
ACKNOWLEDGMENT	10
REFERENCES	11
TABLE I. Table of $P_\nu(\cos \theta)$: Six Decimal Places	13-93
TABLE II. Table of $Q_\nu(\cos \theta)$: Six Decimal Places	95-175
TABLE III. Table of $P_{-\frac{1}{2}+ib}(\cos \theta)$: Five Significant Figures . .	177-189
TABLE IV. Table of $dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$: Five Significant Figures .	191-203

I. INTRODUCTION

This report presents tabulations of several types of solution to Legendre's differential equation in the form

$$\frac{dw}{d\theta} + \cot \theta \frac{dw}{d\theta} + \nu(\nu + 1) w = 0$$

where $\nu(\nu + 1)$ is taken to be real and θ is real and satisfies $0 < \theta < \pi$. When ν is real, the usual Legendre functions of the first and second kinds, $P_\nu(\cos \theta)$ and $Q_\nu(\cos \theta)$, respectively, form a linearly independent pair of solutions to this equation and are tabulated herein. Further, $\nu(\nu + 1)$ is also real when ν is complex but of the special form $\nu = -\frac{1}{2} + ib$, where b is real. In this case $P_\nu(\cos \theta)$ is still real (although $Q_\nu(\cos \theta)$ is not), and we shall present tables of $P_{-\frac{1}{2}+ib}(\cos \theta)$ too.

Compendia of the properties of these functions are given in the works of Hobson,¹ Erdelyi et al.,² and Magnus and Oberhettinger.³ Most of the extant tables of these functions deal only with the case where ν is an integer, and the $P_\nu(\cos \theta)$ reduce to the Legendre polynomials. A few more general tables have been made, of which three are noteworthy. Gray⁴ has given a short table of $P_\nu(x)$ for $0 \leq \nu \leq 2$ and $-1 < x \leq 1$ which has several errors in it. The French Centre National D'Etudes des Telecommunications⁵ has given a much more extensive tabulation of $P_\nu(\cos \theta)$, and Zhurina and Karamazina⁶ have given a tabulation of $P_{-\frac{1}{2}+ib}(x)$ that is very dense in b but rather sparse in x .

The next section contains a collection of the most important formulas relating to the Legendre functions, and the actual calculations are described in Section III. Section IV gives a brief discussion of the accuracy and checking of these results.

II. BASIC FORMULAS RELATING TO LEGENDRE FUNCTIONS

The hypergeometric function $F(a,b;c;z)$ is defined by the infinite series

$$F(a,b;c;z) = \sum_{n=0}^{\infty} F_n(a,b;c;z) \quad (1)$$

where

$$F_0(a,b;c;z) = 1$$
$$F_n(a,b;c;z) = \frac{\Gamma(c)\Gamma(1)}{\Gamma(a)\Gamma(b)} \frac{\Gamma(a+n)\Gamma(b+n)}{\Gamma(c+n)\Gamma(1+n)} z^n, \quad n \geq 1. \quad (2)$$

The hypergeometric series, so defined, converges absolutely for $|z| < 1$. The coefficients F_n may be computed recursively by the formulas

$$F/F_{n-1} = \frac{(a+n-1)(b+n-1)}{n(c+n-1)} z \quad (3)$$

$$= \left[1 + \frac{a+b-c-1}{n} + \frac{ab-c(a+b-c)}{b(c+n-1)} \right], \quad n \geq 1. \quad (4)$$

As $n \rightarrow \infty$

$$F_n \sim \frac{\Gamma(c)}{\Gamma(a)\Gamma(b)} z^n n^{a+b-c-1} \left[1 + o\left(\frac{1}{n}\right) \right]. \quad (5)$$

The derivative of the hypergeometric function is seen to be

$$\frac{dF}{dz} = \frac{ab}{c} F(a+1, b+1; c+1; z) \quad (6)$$

and, if

$$\frac{dF}{dz} = \frac{ab}{c} \sum_{n=0}^{\infty} F'_n(a, b; c; z), \quad (7)$$

we have from (2) - (5)

$$F'_0 = 1$$

$$F'_n/F'_{n-1} = \frac{(a+n)(b+n)}{n(c+n)} z = 1 + \frac{a+b-c}{n} + \frac{ab-c(a+b-c)}{n(c+n)}, \quad n \geq 1 \quad (8)$$

$$F'_n \sim \frac{\Gamma(c+1)}{\Gamma(a+1)\Gamma(b+1)} n^{a+b-c} z^n \text{ as } n \rightarrow \infty. \quad (9)$$

The Legendre functions $P_\nu(\cos \theta)$ and $Q_\nu(\cos \theta)$ can be defined in various ways in terms of the hypergeometric function, but for our purposes the following pair of definitions is adequate. If

$$\left. \begin{aligned} U(\cos^2 \theta) &= F\left(-\frac{1}{2}\nu, \frac{1}{2} + \frac{1}{2}\nu; \frac{1}{2}; \cos^2 \theta\right) \\ V(\cos^2 \theta) &= F\left(\frac{1}{2} - \frac{1}{2}\nu, 1 + \frac{1}{2}\nu; \frac{3}{2}; \cos^2 \theta\right) \end{aligned} \right\} \quad (10)$$

$$\phi(\nu) = \Gamma\left(\frac{1}{2} + \frac{1}{2}\nu\right) \Gamma\left(1 + \frac{1}{2}\nu\right), \quad (11)$$

then

$$\left. \begin{aligned} P_\nu(\cos \theta) &= \frac{1}{\sqrt{\pi}} \left[\phi U \cos\left(\frac{\nu\pi}{2}\right) + \frac{2V \cos \theta}{\phi} \sin\left(\frac{\nu\pi}{2}\right) \right] \\ Q_\nu(\cos \theta) &= \frac{\sqrt{\pi}}{2} \left[-\phi U \sin\left(\frac{\nu\pi}{2}\right) + \frac{2V \cos \theta}{\phi} \cos\left(\frac{\nu\pi}{2}\right) \right] \end{aligned} \right\} \quad (12)$$

Further it is evident by substitution that*

$$P_\nu[\cos(\pi - \theta)] = P_\nu(\cos \theta) \cos \nu\pi - \frac{2}{\pi} Q_\nu(\cos \theta) \sin \nu\pi \quad (13a)$$

$$Q_\nu[\cos(\pi - \theta)] = -Q_\nu(\cos \theta) \cos \nu\pi - \frac{\pi}{2} P_\nu(\cos \theta) \sin \nu\pi. \quad (13b)$$

If $x = \cos \theta$, then (12) gives P_ν and Q_ν as power series about $x = 0$. Alternatively, we may set $z = \sin^2 \frac{\theta}{2}$ and express P_ν and Q_ν as series in z by means of the formulas

$$P_\nu(\cos \theta) = F(-\nu, \nu + 1; 1; z) = \sum_0^\infty C_n(\nu, z) \quad (14)$$

where [see (2)]

$$C_n(\nu, z) = F_n(-\nu, \nu + 1; 1, z), \quad (15)$$

and

$$Q_\nu(\cos \theta) = P_\nu(\cos \theta) \left[\frac{1}{2} \log \left(\frac{1-z}{z} \right) + \psi(0) - \psi(\nu) \right] + \sum_{n=0}^\infty C_n(\nu, z) [\psi(n) - \psi(0)]. \quad (16)$$

In (16) $\psi(s)$ is the logarithmic derivative of the factorial function

$$\psi(s) = \frac{1}{s!} \frac{d}{ds} (s!) = \frac{d}{ds} (\log s!);$$

its most important properties are listed a little later in this section.

Representations of $P_\nu[\cos(\pi - \theta)]$ and $Q_\nu[\cos(\pi - \theta)]$ can be derived by combining (14) and (13). We list only $P_\nu[\cos(\pi - \theta)]$ explicitly

$$P_\nu[\cos(\pi - \theta)] = \frac{\sin \nu\pi}{\pi} \{ P_\nu(\cos \theta) \log z + \sum_{n=0}^\infty C_n(\nu, z) [\psi(n+\nu) + \psi(n-\nu-1) - 2\psi(n)] \}. \quad (17)$$

Formulas (12) give representations of $P_\nu(\cos \theta)$ and $Q_\nu(\cos \theta)$ as series that converge rapidly near $\theta = \pi/2$ but diverge for $\theta = 0, \pi$. Equations (14) - (16) give $P_\nu(\cos \theta)$ and $Q_\nu(\cos \theta)$ as series that converge for $0 \leq \theta < \pi$ but converge rapidly only near $\theta = 0$. If we set $\sigma = \pi - \theta$, then (17) gives a representation of $P_\nu(\cos \sigma)$ as a series that converges for $0 \leq \sigma < \pi$ but again converges rapidly only near $\theta = 0$, i.e., near $\sigma = \pi$. Also, by combining (13) with (14) - (16), a series representation of $Q_\nu(\cos \sigma)$ is found that converges for $0 \leq \sigma < \pi$ but converges rapidly only near $\theta = 0$ or $\sigma = \pi$.

*References 1, 2, and 3 all contain inconsistencies in sign between the formulas (12) and (13).

Several other elementary properties of the Legendre functions are listed below

$$P_{\nu+2}(\cos \theta) = \left(\frac{2\nu+3}{\nu+2}\right) \cos \theta P_{\nu+1}(\cos \theta) - \left(\frac{\nu+1}{\nu+2}\right) P_{\nu}(\cos \theta) \quad (18)$$

$$\frac{dP_{\nu}(\cos \theta)}{d\theta} = \frac{\nu}{\sin \theta} [\cos \theta P_{\nu}(\cos \theta) - P_{\nu-1}(\cos \theta)] \quad (19)$$

$$P_{-\nu-1}(\cos \theta) = P_{\nu}(\cos \theta) \quad (20)$$

Formulas (18) and (19) remain true if P is replaced by Q throughout, but this is not true of (20).

Asymptotic representation of $P_{\nu}(\cos \theta)$ and $Q_{\nu}(\cos \theta)$ that are valid as $|\nu| \rightarrow \infty$ except near $\theta = 0$ and π can be found from the expansions

$$P_{\nu}(\cos \theta) = \sqrt{\frac{2}{\pi \sin \theta}} \frac{\Gamma(1+\nu)}{\Gamma(\frac{3}{2}+\nu)} \sum_{n=0}^{\infty} \frac{(-1)^n}{n!} \left[\frac{\Gamma(\frac{1}{2}+n)}{\Gamma(\frac{1}{2})} \right]^2 \frac{\sin \left[\left(n + \nu + \frac{1}{2} \right) \theta + \frac{\pi}{4} + \frac{n\pi}{2} \right]}{(2 \sin \theta)^n \left[\frac{\Gamma(\nu + \frac{3}{2} + n)}{\Gamma(\nu + \frac{3}{2})} \right]} \quad (21)$$

$$Q_{\nu}(\cos \theta) = \sqrt{\frac{\pi}{2 \sin \theta}} \frac{\Gamma(1+\nu)}{\Gamma(\frac{3}{2}+\nu)} \sum_{n=0}^{\infty} \frac{(-1)^n}{n!} \left[\frac{\Gamma(\frac{1}{2}+n)}{\Gamma(\frac{1}{2})} \right]^2 \frac{\cos \left[\left(n + \nu + \frac{1}{2} \right) \theta + \frac{\pi}{4} + \frac{n\pi}{2} \right]}{(2 \sin \theta)^n \left[\frac{\Gamma(\nu + \frac{3}{2} + n)}{\Gamma(\frac{3}{2} + \nu)} \right]} \quad (22)$$

These expansions are convergent for $\pi/6 < \theta < 5\pi/6$ and asymptotic elsewhere. When $\nu = -\frac{1}{2} + ib$, the expansion (21) can be rewritten in terms of real quantities as

$$P_{-\frac{1}{2}+ib}(\cos \theta) = \frac{e^{b\theta}}{\sqrt{2\pi b \sin \theta}} \sum_{n=0}^{\infty} \frac{\Gamma(n+\frac{1}{2})}{\Gamma(\frac{1}{2})} A_n(\theta) b^{-n}, \quad (23)$$

where the $A_n(\theta)$ are defined by

$$\{\epsilon^{-1} [\sin \epsilon - (1 - \cos \epsilon) \cot \theta]\}^{-1/2} = \sum_{n=0}^{\infty} A_n(\theta) \epsilon^n. \quad (24)$$

The first five functions $A_n(\theta)$, are

$$\begin{aligned} A_0 &= 1 & A_1 &= \frac{1}{4} \cot \theta \\ A_2 &= \frac{1}{12} + \frac{3}{32} \cot^2 \theta & A_3 &= \left(\frac{1}{24} + \frac{5}{128} \cot^2 \theta \right) \cot \theta \\ A_4 &= \frac{1}{160} + \frac{3}{128} \cot^2 \theta + \frac{35}{2048} \cot^4 \theta \end{aligned}$$

As $\theta \rightarrow 0$ we have

$$P_\nu(\cos \theta) \sim J_0 \left[\left(\lambda + \frac{1}{2} \right) 2 \sin (\theta/2) \right] \quad (25)$$

$$Q_\nu(\cos \theta) = - \frac{\pi}{2} Y_0 \left[\left(\lambda + \frac{1}{2} \right) 2 \sin (\theta/2) \right]. \quad (26)$$

The function $\Gamma(s)$ is very well known, but we shall list its most important properties here.

$$\Gamma(s) = \frac{1}{s} \sum_{n=1}^{\infty} \left[\frac{\left(1 + \frac{1}{n}\right)^s}{\left(1 + \frac{s}{n}\right)} \right] \quad (27)$$

$$\Gamma(1) = 1 \quad (28)$$

$$\Gamma(n + 1) = n! \quad (29)$$

$$\Gamma(1 + s) = s \Gamma(s) \quad (30)$$

$$\Gamma(s) \Gamma(1 - s) = \frac{\pi}{\sin \pi s} \quad (31)$$

$$\Gamma\left(\frac{1}{2}\right) = \sqrt{\pi} \quad (32)$$

$$\Gamma\left(\frac{1}{2} + s\right) \Gamma\left(\frac{1}{2} - s\right) = \frac{\pi}{\cos \pi s} \quad (33)$$

As $s \rightarrow \infty$,

$$\begin{aligned} \log \Gamma(s) &\sim \left(s - \frac{1}{2} \right) \log s - s + \log \sqrt{2\pi} + \\ &\frac{1}{12s} - \frac{1}{360s^3} + \frac{1}{1260s^5} - \frac{1}{1680s^7} \dots \end{aligned} \quad (34)$$

The asymptotic representation (34) is valid as long as $|\arg s| < \pi$.

The function $\psi(s)$ has several important properties which are given below:

$$\psi(0) = -\gamma \quad (35)$$

where

$$\gamma = \text{Euler's constant} = \lim_{n \rightarrow \infty} \left[\sum_{p=1}^n \frac{1}{p} - \ln n \right] = 0.577215665$$

$$\psi(s) - \psi(0) = s \sum_{n=1}^{\infty} \frac{1}{n(s+n)} \quad (36)$$

$$\psi(s) = \psi(s-1) + \frac{1}{s} \quad (37)$$

$$\psi(s+n) = \psi(s) + \sum_{p=1}^n \frac{1}{s+p} \quad (38)$$

$$\psi(-s) = \psi(s-1) + \pi \cot \pi s. \quad (39)$$

As $s \rightarrow \infty$,

$$\psi(s) \sim \ln s + \frac{1}{2s} - \frac{1}{12s^2} + \frac{1}{120s^4} - \frac{1}{252s^6} + \frac{1}{240s^8} - \dots \quad (40)$$

Once again, the asymptotic representation (40) for $\psi(s)$ is valid provided $|\arg s| < \pi$.

All the definitions and relations given in this section can be found in Erdelyi² except that Erdelyi takes $\psi(s)$ as the logarithmic derivative of the gamma function rather than the factorial function as here.

III. CONSTRUCTION OF THE TABLES

The following considerations played a part in choosing the format of the tables. First, if ν is real, values of $dP_{\nu}(\cos \theta)/d\theta$ and $dQ_{\nu}(\cos \theta)/d\theta$ can be found from tables of $P_{\nu}(\cos \theta)$ and $Q_{\nu}(\cos \theta)$ themselves by use of (19). However, when $\nu = -\frac{1}{2} + ib$, (19) shows that we cannot get values of $dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$ from tables of $P_{-\frac{1}{2}+ib}(\cos \theta)$; we must either also tabulate $P_{-\frac{3}{2}+ib}(\cos \theta)$ or tabulate $dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$ itself. It is easier to do the latter, and so we have prepared tables of both $P_{-\frac{1}{2}+ib}(\cos \theta)$ and $dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$. Second, for real ν , $P_{\nu}(\cos \theta)$ and $Q_{\nu}(\cos \theta)$ are basically oscillatory in nature and lie mainly between -1 and 1, and so it is most useful to give their tabular values to a fixed number of decimal places and make a statement about the absolute error. When $\nu = -\frac{1}{2} + ib$, however, $P_{\nu}(\cos \theta)$ has exponential behavior and changes rapidly in magnitude; in this case the most practical arrangement is a tabulation in exponential form, together with a statement about the relative error.

The choice of ν - and θ -values at which the functions were to be evaluated was motivated mainly by the desire to provide a rather close

tabulation for moderate values of $|\nu|$ over the range $(0, \pi)$ in θ . This led to the choices

$$\nu = -0.5 \ (0.02) \ 3.5$$

$$\theta = 0 \ (2^\circ) \ 180^\circ$$

for the tables of $P_\nu(\cos \theta)$ and $Q_\nu(\cos \theta)$ when ν is real. With these tables, two applications of (18) give values out to $\nu = 5.5$, and beyond that point the asymptotic formulas (21) and (22) become useful.

The functions $P_{-\frac{1}{2}+ib}(\cos \theta)$ are less often needed, so a somewhat sparser tabulation than that for real ν seemed acceptable. However, since (18) cannot be used to obtain values for large b from the tabulated values, it appeared necessary to extend the tabulation out to the range of b -values where the asymptotic formula (23) becomes applicable. For these reasons the choices

$$b = 0 \ (0.1) \ 5.0$$

$$\theta = 0 \ (5^\circ) \ 175^\circ$$

were made for both $P_{-\frac{1}{2}+ib}(\cos \theta)$ and its derivative.

For real ν the calculations were made by summing series (14) and (16) for $0 < \theta \leq 90^\circ$, $-\frac{1}{2} \leq \nu \leq \frac{3}{2}$, and then using (13) and (18) to extend the values to $90^\circ \leq \theta < 180^\circ$, $\frac{3}{2} \leq \nu \leq \frac{7}{2}$. The calculations of $P_\nu(\cos \theta)$ and $Q_\nu(\cos \theta)$ were made simultaneously to avoid needless recalculation of some quantities that occur in both (14) and (16).

The calculations of

$$P(b, \theta) \equiv P_{-\frac{1}{2}+ib}(\cos \theta),$$

and $\partial P(b, \theta)/\partial \theta$ were more difficult to carry out satisfactorily. When the formulas (14) and (17) were used for the ranges $0 \leq \theta \leq 90^\circ$ and $0 \leq 180^\circ - \theta \leq 90^\circ$, respectively, the terms within the brackets in (17) almost cancelled each other, resulting in excessive loss of accuracy. For this reason the final calculations of $P(b, \theta)$ were made by using (14) for $0 \leq \theta \leq 90^\circ$, (12a) for $90^\circ \leq \theta \leq 150^\circ$ and (17) for $150^\circ \leq \theta \leq 175^\circ$. In these ranges $\partial P(b, \theta)/\partial \theta$ was calculated by formulas obtained from (14), (12a) and (17) by differentiation.

The calculation of the ψ -function was always done by shifting the argument up to fairly large values [via (38)] and then using (40).

IV. DISCUSSION OF ACCURACY

The accuracy of the calculations was ultimately limited by the fact that the calculations were done with the Fortran I Processor on an IBM 1620 computer. In this system, floating point calculations are carried out with

eight significant digits, and so the relative error in the final result of many such calculations is likely to be much larger than 1×10^{-8} . Apart from this it is difficult to make precise statements about the accuracy of these calculations, but in the following paragraphs we shall make what seem to be reasonable statements about the errors.

First, in the calculations of $P_\nu(\cos \theta)$, $Q_\nu(\cos \theta)$, there is evidence (detailed below) that the absolute errors in the sixth decimal places of the tabular entries do not exceed one. An internal check is provided by the fact that the results at $\theta = 90^\circ$ were calculated and printed in two different ways, i.e., using (14) and (13a) for P_ν and (16) and (13b) for Q_ν . Comparing the two tabular entries for each ν -value at $\theta = 90^\circ$, we see that they differ by no more than one unit in the sixth decimal place in all cases. A further internal check is given by the fact that the results for $\nu = 1.5$ were also calculated and printed in two different ways, e.g., for P_ν , once using (14) and (13a) to find the values directly and then again using (18) in conjunction with the values for $\nu = -0.5$ and $\nu = +0.5$. If we compare the two entries for each θ -value at $\nu = 1.5$, we see that they too differ by one unit or less in the sixth decimal place in all cases. These two internal checks are inconclusive since the two entries being compared could have equal errors, but they are indicative of the level of accuracy.

One obtains an external check on the results by comparing the entries for $P_\nu(\cos \theta)$ with those of the sparser table given by Gray. In most cases the greatest disagreement is one in the sixth decimal place. However, in a number of cases the discrepancy is worse, up to 10^{-2} in a few entries. Each of these discrepancies was checked separately, either by differencing or by running the calculation on a different computer with greater accuracy. In every case the present results were verified, and wherever the calculations were run with greater accuracy, the results agreed with the present entries apart from a difference of one unit in the sixth decimal place.

It is still more difficult to make precise statements about the accuracy of the calculations when $\nu = -\frac{1}{2} + ib$ since no other tables of $P(b, \theta)$ were available for comparison. The only internal check consisted of comparing the two entries at each b -value for $\theta = 150^\circ$, one of which was computed by (17) and the other by (12a). These all agree apart from a difference of one unit in the fifth digit, this being true for both $P(b, \theta)$ and $dP(b, \theta)/d\theta$. For b sufficiently large and θ near enough to 90° , the expansion (23) also verified a few points apart from a difference of one unit in the fifth digit.

To summarize, we claim that in the tables for $P_\nu(\cos \theta)$ and $Q_\nu(\cos \theta)$ the error in the sixth decimal place is less than two units and in the tables for $P_{-\frac{1}{2}+ib}(\cos \theta)$ and $dP_{-\frac{1}{2}+ib}(\cos \theta)$ the error in the fifth digit is less than two units.

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TABLE I

Table of $P_\nu(\cos \theta)$: Six Decimal Places

$$\theta = 0 \text{ (} 2^\circ \text{) } 178^\circ$$

$$\nu = -0.5 \text{ (} 0.02 \text{) } 3.5$$

		$P_\nu(\cos \theta)$				
ν	$-.50$	$-.48$	$-.46$	$-.44$	$-.42$	$-.40$
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	1.000076	1.000076	1.000075	1.000075	1.000074	1.000073
4	1.000304	1.000304	1.000302	1.000300	1.000296	1.000292
6	1.000685	1.000684	1.000681	1.000675	1.000668	1.000658
8	1.001219	1.001217	1.001212	1.001202	1.001188	1.001170
10	1.001907	1.001903	1.001894	1.001879	1.001858	1.001830
12	1.002748	1.002743	1.002730	1.002708	1.002678	1.002638
14	1.003744	1.003738	1.003720	1.003690	1.003648	1.003594
16	1.004895	1.004887	1.004864	1.004825	1.004770	1.004699
18	1.006203	1.006193	1.006163	1.006114	1.006044	1.005954
20	1.007668	1.007656	1.007619	1.007558	1.007472	1.007361
22	1.009293	1.009278	1.009233	1.009159	1.009054	1.008920
24	1.011077	1.011059	1.011006	1.010917	1.010793	1.010633
26	1.013023	1.013002	1.012940	1.012835	1.012689	1.012501
28	1.015133	1.015109	1.015036	1.014914	1.014744	1.014525
30	1.017408	1.017380	1.017296	1.017156	1.016961	1.016709
32	1.019850	1.019818	1.019723	1.019563	1.019340	1.019053
34	1.022462	1.022426	1.022318	1.022137	1.021884	1.021559
36	1.025246	1.025206	1.025084	1.024881	1.024596	1.024230
38	1.028204	1.028159	1.028023	1.027795	1.027477	1.027069
40	1.031340	1.031289	1.031138	1.030885	1.030531	1.030077
42	1.034655	1.034599	1.034431	1.034152	1.033761	1.033258
44	1.038153	1.038092	1.037907	1.037599	1.037168	1.036614
46	1.041839	1.041771	1.041568	1.041230	1.040757	1.040149
48	1.045714	1.045639	1.045418	1.045048	1.044531	1.043865
50	1.049782	1.049701	1.049460	1.049057	1.048493	1.047768
52	1.054049	1.053961	1.053698	1.053260	1.052647	1.051860
54	1.058517	1.058422	1.058137	1.057663	1.056998	1.056145
56	1.063192	1.063090	1.062781	1.062268	1.061550	1.060628
58	1.068078	1.067967	1.067636	1.067082	1.066308	1.065313
60	1.073181	1.073062	1.072705	1.072109	1.071276	1.070205
62	1.078506	1.078378	1.077994	1.077354	1.076460	1.075310
64	1.084058	1.083921	1.083509	1.082824	1.081865	1.080632
66	1.089844	1.089697	1.089257	1.088524	1.087497	1.086178
68	1.095870	1.095714	1.095243	1.094459	1.093362	1.091953
70	1.102144	1.101977	1.101475	1.100639	1.099469	1.097965
72	1.108672	1.108493	1.107959	1.107068	1.105822	1.104220
74	1.115462	1.115272	1.114703	1.113756	1.112429	1.110726
76	1.122523	1.122321	1.121716	1.120709	1.119300	1.117489
78	1.129862	1.129649	1.129007	1.127938	1.126442	1.124520
80	1.137491	1.137264	1.136584	1.135451	1.133864	1.131827
82	1.145419	1.145179	1.144458	1.143257	1.141577	1.139419
84	1.153655	1.153401	1.152638	1.151368	1.149590	1.147306
86	1.162213	1.161944	1.161137	1.159794	1.157914	1.155499
88	1.171103	1.170819	1.169967	1.168547	1.166561	1.164009
90	1.180339	1.180039	1.179139	1.177640	1.175544	1.172850

		$P_\nu(\cos \theta)$					
ν		-.50	-.48	-.46	-.44	-.42	-.40
θ							
90	1.180339	1.180039	1.179139	1.177640	1.175543	1.172850	
92	1.189935	1.189618	1.188669	1.187087	1.184875	1.182034	
94	1.199905	1.199571	1.198570	1.196903	1.194570	1.191575	
96	1.210266	1.209914	1.208859	1.207102	1.204644	1.201488	
98	1.221034	1.220663	1.219552	1.217702	1.215114	1.211790	
100	1.232228	1.231838	1.230668	1.228720	1.225996	1.222497	
102	1.243867	1.243457	1.242227	1.240177	1.237311	1.233630	
104	1.255975	1.255543	1.254249	1.252093	1.249079	1.245207	
106	1.268572	1.268118	1.266757	1.264491	1.261321	1.257252	
108	1.281684	1.281207	1.279777	1.277395	1.274064	1.269788	
110	1.295339	1.294837	1.293335	1.290832	1.287333	1.282840	
112	1.309565	1.309039	1.307460	1.304831	1.301155	1.296436	
114	1.324396	1.323843	1.322185	1.319424	1.315563	1.310608	
116	1.339865	1.339285	1.337544	1.334645	1.330591	1.325388	
118	1.356012	1.355403	1.353575	1.350531	1.346276	1.340813	
120	1.372879	1.372239	1.370320	1.367125	1.362657	1.356923	
122	1.390512	1.389840	1.387825	1.384471	1.379781	1.373762	
124	1.408962	1.408257	1.406142	1.402620	1.397697	1.391379	
126	1.428287	1.427546	1.425325	1.421628	1.416460	1.409828	
128	1.448549	1.447771	1.445439	1.441557	1.436131	1.429168	
130	1.469818	1.469001	1.466553	1.462476	1.456778	1.449467	
132	1.492175	1.491317	1.488745	1.484463	1.478478	1.470800	
134	1.515708	1.514807	1.512104	1.507605	1.501318	1.493252	
136	1.540518	1.539570	1.536730	1.532002	1.525394	1.516918	
138	1.566720	1.565724	1.562737	1.557766	1.550819	1.541908	
140	1.594445	1.593397	1.590256	1.585026	1.577718	1.568346	
142	1.623845	1.622742	1.619435	1.613931	1.606240	1.596377	
144	1.655096	1.653934	1.650451	1.644654	1.636554	1.626167	
146	1.688402	1.687178	1.683507	1.677396	1.668859	1.657913	
148	1.724008	1.722716	1.718843	1.712397	1.703391	1.691844	
150	1.762203	1.760838	1.756747	1.749939	1.740429	1.728235	
152	1.803334	1.801891	1.797566	1.790367	1.780311	1.767420	
154	1.847829	1.846301	1.841720	1.834097	1.823449	1.809801	
156	1.896215	1.894594	1.889735	1.881649	1.870356	1.855882	
158	1.949156	1.947433	1.942269	1.933676	1.921674	1.906293	
160	2.007506	2.005671	2.000169	1.991014	1.978229	1.961846	
162	2.072389	2.070428	2.064550	2.054769	2.041111	2.023610	
164	2.145324	2.143221	2.136918	2.126431	2.111789	2.093029	
166	2.228437	2.226173	2.219385	2.208092	2.192325	2.172126	
168	2.324843	2.322390	2.315038	2.302808	2.285733	2.263860	
170	2.439362	2.436685	2.428661	2.415314	2.396682	2.372818	
172	2.580065	2.577112	2.568262	2.553539	2.532990	2.506673	
174	2.762072	2.758761	2.748839	2.732335	2.709301	2.679806	
176	3.019307	3.015490	3.004050	2.985024	2.958471	2.924477	
178	3.459970	3.455284	3.441241	3.417889	3.385303	3.343592	
180	∞	∞	∞	∞	∞	∞	

		$P_\nu(\cos \theta)$					
ν		-.40	-.38	-.36	-.34	-.32	-.30
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	1.000073	1.000071	1.000070	1.000068	1.000066	1.000063	1.000063
4	1.000292	1.000287	1.000280	1.000273	1.000265	1.000255	1.000255
6	1.000658	1.000646	1.000631	1.000615	1.000596	1.000576	1.000576
8	1.001170	1.001149	1.001124	1.001094	1.001061	1.001024	1.001024
10	1.001830	1.001797	1.001757	1.001711	1.001659	1.001601	1.001601
12	1.002638	1.002590	1.002532	1.002466	1.002392	1.002308	1.002308
14	1.003594	1.003528	1.003450	1.003360	1.003258	1.003144	1.003144
16	1.004699	1.004613	1.004511	1.004393	1.004260	1.004111	1.004111
18	1.005954	1.005845	1.005716	1.005567	1.005398	1.005209	1.005209
20	1.007361	1.007226	1.007066	1.006882	1.006673	1.006439	1.006439
22	1.008920	1.008756	1.008562	1.008339	1.008086	1.007803	1.007803
24	1.010633	1.010437	1.010206	1.009940	1.009638	1.009301	1.009301
26	1.012501	1.012271	1.011999	1.011686	1.011331	1.010934	1.010934
28	1.014525	1.014258	1.013942	1.013578	1.013165	1.012704	1.012704
30	1.016709	1.016401	1.016038	1.015619	1.015143	1.014613	1.014613
32	1.019053	1.018702	1.018287	1.017809	1.017267	1.016661	1.016661
34	1.021559	1.021162	1.020692	1.020151	1.019537	1.018852	1.018852
36	1.024230	1.023784	1.023256	1.022647	1.021957	1.021186	1.021186
38	1.027069	1.026569	1.025979	1.025298	1.024527	1.023665	1.023665
40	1.030077	1.029522	1.028865	1.028108	1.027251	1.026293	1.026293
42	1.033258	1.032643	1.031917	1.031080	1.030131	1.029071	1.029071
44	1.036614	1.035937	1.035137	1.034214	1.033169	1.032001	1.032001
46	1.040149	1.039406	1.038528	1.037515	1.036368	1.035087	1.035087
48	1.043865	1.043053	1.042093	1.040986	1.039732	1.038331	1.038331
50	1.047768	1.046882	1.045836	1.044629	1.043263	1.041737	1.041737
52	1.051860	1.050897	1.049760	1.048449	1.046964	1.045306	1.045306
54	1.056145	1.055102	1.053870	1.052449	1.050841	1.049044	1.049044
56	1.060628	1.059500	1.058169	1.056633	1.054895	1.052953	1.052953
58	1.065313	1.064097	1.062661	1.061006	1.059131	1.057037	1.057037
60	1.070205	1.068897	1.067352	1.065570	1.063553	1.061301	1.061301
62	1.075310	1.073905	1.072245	1.070333	1.068167	1.065749	1.065749
64	1.080632	1.079126	1.077348	1.075298	1.072976	1.070385	1.070385
66	1.086178	1.084566	1.082663	1.080470	1.077987	1.075215	1.075215
68	1.091953	1.090232	1.088199	1.085856	1.083203	1.080243	1.080243
70	1.097965	1.096129	1.093961	1.091461	1.088633	1.085475	1.085475
72	1.104220	1.102264	1.099954	1.097292	1.094280	1.090917	1.090917
74	1.110726	1.108645	1.106188	1.103356	1.100152	1.096575	1.096575
76	1.117489	1.115278	1.112668	1.109660	1.106256	1.102457	1.102457
78	1.124520	1.122174	1.119403	1.116211	1.112599	1.108568	1.108568
80	1.131827	1.129339	1.126402	1.123018	1.119189	1.114917	1.114917
82	1.139419	1.136783	1.133673	1.130089	1.126034	1.121511	1.121511
84	1.147306	1.144517	1.141226	1.137434	1.133145	1.128359	1.128359
86	1.155499	1.152551	1.149071	1.145063	1.140528	1.135471	1.135471
88	1.164009	1.160895	1.157219	1.152986	1.148197	1.142855	1.142855
90	1.172850	1.169562	1.165683	1.161214	1.156159	1.150523	1.150523

		$P_\nu(\cos \theta)$					
ν		-.40	-.38	-.36	-.34	-.32	-.30
θ							
90		1.172850	1.169562	1.165683	1.161214	1.156159	1.150523
92		1.182034	1.178566	1.174473	1.169760	1.164429	1.158485
94		1.191575	1.187918	1.183604	1.178636	1.173017	1.166754
96		1.201488	1.197636	1.193091	1.187857	1.181939	1.175341
98		1.211790	1.207733	1.202947	1.197437	1.191207	1.184262
100		1.222497	1.218228	1.213191	1.207393	1.200837	1.193530
102		1.233630	1.229138	1.223840	1.217741	1.210846	1.203163
104		1.245207	1.240484	1.234913	1.228501	1.221252	1.213176
106		1.257252	1.252287	1.246432	1.239692	1.232075	1.223588
108		1.269788	1.264570	1.258418	1.251336	1.243334	1.234420
110		1.282840	1.277359	1.270896	1.263458	1.255054	1.245693
112		1.296436	1.290680	1.283892	1.276082	1.267258	1.257431
114		1.310608	1.304564	1.297437	1.289238	1.279975	1.269660
116		1.325388	1.319042	1.311561	1.302955	1.293233	1.282409
118		1.340813	1.334152	1.326299	1.317266	1.307064	1.295707
120		1.356923	1.349931	1.341689	1.332210	1.321505	1.309589
122		1.373762	1.366423	1.357773	1.347826	1.336594	1.324093
124		1.391379	1.383676	1.374598	1.364159	1.352374	1.339259
126		1.409828	1.401742	1.392214	1.381259	1.368893	1.355133
128		1.429168	1.420680	1.410679	1.399181	1.386204	1.371767
130		1.449467	1.440555	1.430056	1.417987	1.404367	1.389217
132		1.470800	1.461442	1.450417	1.437746	1.423448	1.407547
134		1.493252	1.483421	1.471842	1.458535	1.443522	1.426828
136		1.516918	1.506588	1.494423	1.480444	1.464674	1.447142
138		1.541908	1.531050	1.518263	1.503572	1.487001	1.468581
140		1.568346	1.556927	1.543481	1.528033	1.510613	1.491252
142		1.596377	1.584360	1.570213	1.553962	1.535638	1.515277
144		1.626167	1.613514	1.598619	1.581511	1.562225	1.540797
146		1.657913	1.644578	1.628884	1.610861	1.590545	1.567978
148		1.691844	1.677780	1.661228	1.642223	1.620804	1.597017
150		1.728235	1.713386	1.695912	1.675851	1.653246	1.628146
152		1.767420	1.751722	1.733252	1.712051	1.688165	1.661647
154		1.809801	1.793183	1.773633	1.751195	1.725920	1.697865
156		1.855882	1.838259	1.817531	1.793744	1.766955	1.737226
158		1.906293	1.887569	1.865547	1.840281	1.811831	1.780265
160		1.961846	1.941905	1.918455	1.891554	1.861269	1.827674
162		2.023610	2.002311	1.977269	1.948545	1.916215	1.880359
164		2.093029	2.070200	2.043362	2.012586	1.977952	1.939550
166		2.172126	2.147549	2.118661	2.085540	2.048274	2.006964
168		2.263860	2.237252	2.205980	2.170133	2.129810	2.085121
170		2.372818	2.343790	2.309681	2.270590	2.226627	2.177917
172		2.506673	2.474668	2.437066	2.393981	2.345538	2.291881
174		2.679806	2.643940	2.601813	2.553554	2.499308	2.439243
176		2.924477	2.883149	2.834616	2.779033	2.716576	2.647441
178		3.343592	3.292894	3.233376	3.165235	3.088695	3.004010
180		∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$					
ν	-.30	-.28	-.26	-.24	-.22	-.20	
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	
2	1.000063	1.000061	1.000058	1.000055	1.000052	1.000048	
4	1.000255	1.000245	1.000234	1.000222	1.000209	1.000194	
6	1.000576	1.000552	1.000527	1.000500	1.000470	1.000438	
8	1.001024	1.000983	1.000938	1.000889	1.000837	1.000780	
10	1.001601	1.001537	1.001467	1.001391	1.001308	1.001220	
12	1.002308	1.002215	1.002114	1.002004	1.001886	1.001758	
14	1.003144	1.003018	1.002880	1.002731	1.002569	1.002395	
16	1.004111	1.003946	1.003766	1.003570	1.003359	1.003131	
18	1.005209	1.005001	1.004772	1.004524	1.004255	1.003967	
20	1.006439	1.006181	1.005899	1.005592	1.005260	1.004904	
22	1.007803	1.007490	1.007148	1.006775	1.006374	1.005942	
24	1.009301	1.008928	1.008519	1.008076	1.007596	1.007082	
26	1.010934	1.010495	1.010015	1.009493	1.008930	1.008325	
28	1.012704	1.012194	1.011636	1.011030	1.010375	1.009672	
30	1.014613	1.014026	1.013384	1.012686	1.011933	1.011124	
32	1.016661	1.015992	1.015260	1.014464	1.013604	1.012682	
34	1.018852	1.018094	1.017265	1.016364	1.015391	1.014347	
36	1.021186	1.020334	1.019401	1.018389	1.017295	1.016121	
38	1.023665	1.022714	1.021671	1.020539	1.019317	1.018006	
40	1.026293	1.025235	1.024076	1.022818	1.021460	1.020002	
42	1.029071	1.027900	1.026618	1.025226	1.023724	1.022112	
44	1.032001	1.030712	1.029300	1.027767	1.026112	1.024337	
46	1.035087	1.033672	1.032123	1.030441	1.028627	1.026679	
48	1.038331	1.036784	1.035091	1.033253	1.031269	1.029140	
50	1.041737	1.040051	1.038206	1.036203	1.034042	1.031723	
52	1.045306	1.043475	1.041471	1.039295	1.036948	1.034429	
54	1.049044	1.047060	1.044889	1.042532	1.039989	1.037262	
56	1.052953	1.050809	1.048463	1.045917	1.043170	1.040223	
58	1.057037	1.054726	1.052197	1.049452	1.046492	1.043316	
60	1.061301	1.058815	1.056095	1.053142	1.049958	1.046543	
62	1.065749	1.063080	1.060160	1.056991	1.053573	1.049909	
64	1.070385	1.067525	1.064396	1.061001	1.057340	1.053414	
66	1.075215	1.072155	1.068809	1.065177	1.061262	1.057065	
68	1.080243	1.076975	1.073402	1.069524	1.065344	1.060863	
70	1.085475	1.081991	1.078180	1.074046	1.069590	1.064814	
72	1.090917	1.087207	1.083150	1.078749	1.074005	1.068922	
74	1.096575	1.092630	1.088316	1.083636	1.078594	1.073190	
76	1.102457	1.098266	1.093684	1.088715	1.083361	1.077624	
78	1.108568	1.104121	1.099261	1.093991	1.088312	1.082229	
80	1.114917	1.110204	1.105054	1.099470	1.093453	1.087010	
82	1.121511	1.116522	1.111070	1.105158	1.098792	1.091973	
84	1.128359	1.123082	1.117316	1.111064	1.104332	1.097124	
86	1.135471	1.129893	1.123800	1.117196	1.110084	1.102469	
88	1.142855	1.136966	1.130532	1.123560	1.116053	1.108017	
90	1.150523	1.144308	1.137521	1.130166	1.122248	1.113773	

		$P_\nu(\cos \theta)$					
ν		-.30	-.28	-.26	-.24	-.22	-.20
θ							
90		1.150523	1.144308	1.137521	1.130166	1.122248	1.113773
92		1.158485	1.151933	1.144777	1.137023	1.128678	1.119747
94		1.166754	1.159849	1.152310	1.144142	1.135352	1.125947
96		1.175341	1.168070	1.160132	1.151532	1.142279	1.132381
98		1.184262	1.176609	1.168255	1.159207	1.149472	1.139061
100		1.193530	1.185480	1.176693	1.167177	1.156941	1.145996
102		1.203163	1.194697	1.185459	1.175457	1.164699	1.153198
104		1.213176	1.204279	1.194570	1.184060	1.172760	1.160679
106		1.223588	1.214241	1.204042	1.193004	1.181137	1.168453
108		1.234420	1.224603	1.213894	1.202304	1.189846	1.176534
110		1.245693	1.235386	1.224143	1.211979	1.198905	1.184938
112		1.257431	1.246612	1.234813	1.222048	1.208333	1.193682
114		1.269660	1.258306	1.245926	1.232535	1.218149	1.202785
116		1.282409	1.270495	1.257507	1.243462	1.228375	1.212267
118		1.295707	1.283208	1.269585	1.254855	1.239037	1.222150
120		1.309589	1.296478	1.282190	1.266743	1.250159	1.232459
122		1.324093	1.310340	1.295355	1.279158	1.261773	1.243221
124		1.339259	1.324833	1.309118	1.292135	1.273909	1.254465
126		1.355133	1.340001	1.323519	1.305711	1.286604	1.266225
128		1.371767	1.355893	1.338605	1.319930	1.299898	1.278537
130		1.389217	1.372561	1.354426	1.334840	1.313835	1.291442
132		1.407547	1.390068	1.371041	1.350495	1.328466	1.304987
134		1.426828	1.408481	1.388512	1.366955	1.343846	1.319224
136		1.447142	1.427877	1.406914	1.384288	1.360040	1.334210
138		1.468581	1.448346	1.426330	1.402574	1.377120	1.350013
140		1.491252	1.469987	1.446855	1.421901	1.395169	1.366709
142		1.515277	1.492916	1.468599	1.442372	1.414283	1.384388
144		1.540797	1.517270	1.491690	1.464107	1.434575	1.403151
146		1.567978	1.543205	1.516277	1.487246	1.456173	1.423119
148		1.597017	1.570909	1.542536	1.511956	1.479232	1.444433
150		1.628146	1.600603	1.570677	1.538432	1.503937	1.467264
152		1.661647	1.632556	1.600955	1.566913	1.530507	1.491814
154		1.697865	1.667095	1.633678	1.597690	1.559213	1.518333
156		1.737226	1.704625	1.669230	1.631123	1.590391	1.547130
158		1.780265	1.745659	1.708096	1.667665	1.624463	1.578595
160		1.827674	1.790852	1.750895	1.707900	1.661973	1.613227
162		1.880359	1.841070	1.798445	1.752595	1.703633	1.651685
164		1.939550	1.897480	1.851853	1.802788	1.750412	1.694861
166		2.006964	1.961722	1.912668	1.859934	1.803662	1.744002
168		2.085121	2.036191	1.983156	1.926162	1.865366	1.800936
170		2.177917	2.124601	2.066830	2.004769	1.938594	1.868494
172		2.291881	2.233168	2.169571	2.101278	2.028488	1.951416
174		2.439243	2.373539	2.302397	2.226034	2.144681	2.058585
176		2.647441	2.571847	2.490033	2.402255	2.308791	2.209935
178		3.004010	2.911459	2.811347	2.704003	2.589781	2.469057
180		∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$					
ν		-.20	-.18	-.16	-.14	-.12	-.10
θ							
0		1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2		1.000048	1.000044	1.000040	1.000036	1.000032	1.000027
4		1.000194	1.000179	1.000163	1.000146	1.000128	1.000109
6		1.000438	1.000404	1.000368	1.000330	1.000289	1.000246
8		1.000780	1.000720	1.000655	1.000587	1.000515	1.000439
10		1.001220	1.001125	1.001025	1.000918	1.000805	1.000686
12		1.001758	1.001622	1.001476	1.001323	1.001160	1.000988
14		1.002395	1.002209	1.002012	1.001802	1.001580	1.001347
16		1.003131	1.002888	1.002630	1.002356	1.002066	1.001761
18		1.003967	1.003660	1.003332	1.002985	1.002617	1.002230
20		1.004904	1.004524	1.004119	1.003689	1.003235	1.002757
22		1.005942	1.005481	1.004990	1.004470	1.003920	1.003340
24		1.007082	1.006532	1.005947	1.005327	1.004671	1.003980
26		1.008325	1.007679	1.006991	1.006261	1.005490	1.004678
28		1.009672	1.008921	1.008121	1.007274	1.006378	1.005434
30		1.011124	1.010259	1.009340	1.008365	1.007335	1.006249
32		1.012682	1.011696	1.010647	1.009535	1.008361	1.007123
34		1.014347	1.013232	1.012045	1.010787	1.009458	1.008057
36		1.016121	1.014867	1.013533	1.012119	1.010625	1.009052
38		1.018006	1.016605	1.015114	1.013534	1.011866	1.010108
40		1.020002	1.018445	1.016788	1.015033	1.013179	1.011227
42		1.022112	1.020389	1.018558	1.016616	1.014567	1.012408
44		1.024337	1.022440	1.020423	1.018286	1.016029	1.013654
46		1.026679	1.024599	1.022387	1.020043	1.017569	1.014964
48		1.029140	1.026867	1.024450	1.021889	1.019186	1.016340
50		1.031723	1.029247	1.026614	1.023826	1.020882	1.017784
52		1.034429	1.031740	1.028882	1.025854	1.022659	1.019296
54		1.037262	1.034350	1.031255	1.027977	1.024517	1.020877
56		1.040223	1.037078	1.033735	1.030195	1.026460	1.022530
58		1.043316	1.039927	1.036325	1.032511	1.028487	1.024254
60		1.046543	1.042899	1.039027	1.034927	1.030602	1.026053
62		1.049909	1.045998	1.041843	1.037446	1.032806	1.027927
64		1.053414	1.049227	1.044777	1.040068	1.035102	1.029879
66		1.057065	1.052587	1.047831	1.042798	1.037490	1.031910
68		1.060863	1.056084	1.051008	1.045637	1.039974	1.034021
70		1.064814	1.059721	1.054311	1.048589	1.042556	1.036215
72		1.068922	1.063501	1.057745	1.051657	1.045239	1.038495
74		1.073190	1.067429	1.061312	1.054843	1.048026	1.040863
76		1.077624	1.071508	1.065017	1.058152	1.050919	1.043320
78		1.082229	1.075744	1.068862	1.061587	1.053921	1.045870
80		1.087010	1.080142	1.072854	1.065151	1.057036	1.048516
82		1.091973	1.084706	1.076997	1.068849	1.060268	1.051260
84		1.097124	1.089443	1.081295	1.072686	1.063621	1.054105
86		1.102469	1.094358	1.085755	1.076666	1.067097	1.057056
88		1.108017	1.099457	1.090381	1.080793	1.070702	1.060114
90		1.113773	1.104748	1.095180	1.085075	1.074441	1.063286

		$P_\nu(\cos \theta)$					
ν		-.20	-.18	-.16	-.14	-.12	-.10
θ							
90	1.113773	1.104748	1.095180	1.085075	1.074441	1.063286	
92	1.119747	1.110238	1.100158	1.089515	1.078318	1.066574	
94	1.125947	1.115934	1.105323	1.094121	1.082338	1.069984	
96	1.132381	1.121846	1.110682	1.098899	1.086508	1.073519	
98	1.139061	1.127981	1.116243	1.103856	1.090833	1.077185	
100	1.145996	1.134350	1.122014	1.109000	1.095320	1.080987	
102	1.153198	1.140962	1.128005	1.114339	1.099977	1.084932	
104	1.160679	1.147830	1.134227	1.119882	1.104810	1.089026	
106	1.168453	1.154966	1.140689	1.125638	1.109828	1.093276	
108	1.176534	1.162382	1.147404	1.131618	1.115040	1.097688	
110	1.184938	1.170093	1.154385	1.137833	1.120456	1.102273	
112	1.193682	1.178114	1.161646	1.144297	1.126087	1.107037	
114	1.202785	1.186463	1.169201	1.151020	1.131943	1.111992	
116	1.212267	1.195158	1.177068	1.158020	1.138038	1.117147	
118	1.222150	1.204218	1.185264	1.165311	1.144385	1.122514	
120	1.232459	1.213668	1.193810	1.172911	1.151001	1.128106	
122	1.243221	1.223530	1.202727	1.180840	1.157900	1.133938	
124	1.254465	1.233833	1.212040	1.189119	1.165102	1.140023	
126	1.266225	1.244605	1.221777	1.197772	1.172628	1.146380	
128	1.278537	1.255881	1.231966	1.206825	1.180500	1.153028	
130	1.291442	1.267699	1.242641	1.216309	1.188743	1.159988	
132	1.304987	1.280099	1.253841	1.226255	1.197387	1.167284	
134	1.319224	1.293129	1.265607	1.236702	1.206464	1.174943	
136	1.334210	1.306843	1.277987	1.247692	1.216010	1.182996	
138	1.350013	1.321301	1.291037	1.259274	1.226068	1.191478	
140	1.366709	1.336574	1.304819	1.271501	1.236683	1.200428	
142	1.384388	1.352742	1.319404	1.284440	1.247913	1.209894	
144	1.403151	1.369897	1.334878	1.298162	1.259821	1.219928	
146	1.423119	1.388151	1.351339	1.312756	1.272481	1.230594	
148	1.444433	1.407631	1.368901	1.328324	1.285983	1.241965	
150	1.467264	1.428493	1.387705	1.344987	1.300431	1.254130	
152	1.491814	1.450921	1.407916	1.362895	1.315954	1.267197	
154	1.518333	1.475143	1.429740	1.382225	1.332706	1.281295	
156	1.547130	1.501440	1.453428	1.403203	1.350882	1.296586	
158	1.578595	1.530168	1.479299	1.426109	1.370724	1.313276	
160	1.613227	1.561782	1.507764	1.451306	1.392545	1.331625	
162	1.651685	1.596882	1.539362	1.479270	1.416757	1.351980	
164	1.694861	1.636280	1.574822	1.510645	1.443917	1.374809	
166	1.744002	1.681114	1.615167	1.546336	1.474806	1.400765	
168	1.800936	1.733050	1.661895	1.587666	1.510568	1.430811	
170	1.868494	1.794667	1.717324	1.636684	1.552974	1.466431	
172	1.951416	1.870288	1.785340	1.696822	1.604992	1.510118	
174	2.058585	1.968007	1.873221	1.774514	1.672184	1.566539	
176	2.209935	2.105997	1.997305	1.884198	1.767031	1.646171	
178	2.469057	2.342227	2.209708	2.071934	1.929357	1.782444	
180	∞	∞	∞	∞	∞	∞	

		$P_\nu(\cos \theta)$				
ν	$-.10$	$-.08$	$-.06$	$-.04$	$-.02$	$.00$
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	1.000027	1.000022	1.000017	1.000011	1.000005	1.000000
4	1.000109	1.000089	1.000068	1.000046	1.000023	1.000000
6	1.000246	1.000201	1.000154	1.000105	1.000053	1.000000
8	1.000439	1.000359	1.000275	1.000187	1.000095	1.000000
10	1.000686	1.000561	1.000430	1.000292	1.000149	1.000000
12	1.000988	1.000808	1.000619	1.000421	1.000215	1.000000
14	1.001347	1.001101	1.000843	1.000574	1.000293	1.000000
16	1.001761	1.001439	1.001103	1.000751	1.000383	1.000000
18	1.002230	1.001824	1.001397	1.000951	1.000485	1.000000
20	1.002757	1.002254	1.001727	1.001175	1.000600	1.000000
22	1.003340	1.002731	1.002092	1.001424	1.000726	1.000000
24	1.003980	1.003254	1.002493	1.001697	1.000866	1.000000
26	1.004678	1.003825	1.002930	1.001994	1.001017	1.000000
28	1.005434	1.004443	1.003404	1.002317	1.001182	1.000000
30	1.006249	1.005109	1.003914	1.002664	1.001359	1.000000
32	1.007123	1.005823	1.004461	1.003036	1.001549	1.000000
34	1.008057	1.006587	1.005045	1.003434	1.001752	1.000000
36	1.009052	1.007400	1.005668	1.003857	1.001967	1.000000
38	1.010108	1.008263	1.006328	1.004306	1.002196	1.000000
40	1.011227	1.009176	1.007028	1.004782	1.002439	1.000000
42	1.012408	1.010141	1.007767	1.005284	1.002695	1.000000
44	1.013654	1.011158	1.008545	1.005814	1.002965	1.000000
46	1.014964	1.012229	1.009364	1.006371	1.003249	1.000000
48	1.016340	1.013353	1.010224	1.006955	1.003547	1.000000
50	1.017784	1.014532	1.011126	1.007569	1.003859	1.000000
52	1.019296	1.015766	1.012070	1.008210	1.004186	1.000000
54	1.020877	1.017057	1.013058	1.008881	1.004528	1.000000
56	1.022530	1.018406	1.014090	1.009582	1.004885	1.000000
58	1.024254	1.019813	1.015166	1.010313	1.005257	1.000000
60	1.026053	1.021281	1.016288	1.011076	1.005645	1.000000
62	1.027927	1.022810	1.017457	1.011870	1.006050	1.000000
64	1.029879	1.024402	1.018674	1.012696	1.006470	1.000000
66	1.031910	1.026059	1.019940	1.013555	1.006907	1.000000
68	1.034021	1.027780	1.021255	1.014448	1.007362	1.000000
70	1.036215	1.029570	1.022622	1.015376	1.007834	1.000000
72	1.038495	1.031428	1.024042	1.016339	1.008323	1.000000
74	1.040863	1.033358	1.025515	1.017338	1.008832	1.000000
76	1.043320	1.035361	1.027044	1.018375	1.009359	1.000000
78	1.045870	1.037438	1.028630	1.019451	1.009905	1.000000
80	1.048516	1.039593	1.030275	1.020566	1.010472	1.000000
82	1.051260	1.041828	1.031980	1.021722	1.011059	1.000000
84	1.054105	1.044145	1.033748	1.022920	1.011668	1.000000
86	1.057056	1.046547	1.035580	1.024161	1.012298	1.000000
88	1.060114	1.049037	1.037479	1.025447	1.012951	1.000000
90	1.063286	1.051618	1.039446	1.026779	1.013627	1.000000

		$P_\nu(\cos \theta)$					
ν		-.10	-.08	-.06	-.04	-.02	.00
θ							
90	1.063286	1.051618	1.039446	1.026779	1.013627	1.000000	
92	1.066574	1.054293	1.041485	1.028160	1.014328	1.000000	
94	1.069984	1.057067	1.043599	1.029590	1.015053	1.000000	
96	1.073519	1.059942	1.045789	1.031073	1.015805	1.000000	
98	1.077185	1.062923	1.048060	1.032609	1.016584	1.000000	
100	1.080987	1.066014	1.050413	1.034201	1.017391	1.000000	
102	1.084932	1.069220	1.052854	1.035851	1.018227	1.000000	
104	1.089026	1.072546	1.055385	1.037562	1.019094	1.000000	
106	1.093276	1.075998	1.058012	1.039337	1.019993	1.000000	
108	1.097688	1.079581	1.060738	1.041179	1.020926	1.000000	
110	1.102273	1.083303	1.063568	1.043091	1.021893	1.000000	
112	1.107037	1.087170	1.066509	1.045076	1.022898	1.000000	
114	1.111992	1.091191	1.069565	1.047139	1.023941	1.000000	
116	1.117147	1.095373	1.072742	1.049284	1.025026	1.000000	
118	1.122514	1.099726	1.076049	1.051515	1.026154	1.000000	
120	1.128106	1.104260	1.079493	1.053837	1.027328	1.000000	
122	1.133938	1.108986	1.083081	1.056257	1.028550	1.000000	
124	1.140023	1.113918	1.086824	1.058779	1.029824	1.000000	
126	1.146380	1.119068	1.090732	1.061413	1.031154	1.000000	
128	1.153028	1.124452	1.094816	1.064164	1.032542	1.000000	
130	1.159988	1.130088	1.099089	1.067041	1.033994	1.000000	
132	1.167284	1.135993	1.103566	1.070055	1.035514	1.000000	
134	1.174943	1.142191	1.108264	1.073217	1.037108	1.000000	
136	1.182996	1.148706	1.113199	1.076537	1.038782	1.000000	
138	1.191478	1.155566	1.118395	1.080031	1.040543	1.000000	
140	1.200428	1.162802	1.123874	1.083716	1.042399	1.000000	
142	1.209894	1.170453	1.129666	1.087608	1.044359	1.000000	
144	1.219928	1.178562	1.135801	1.091731	1.046434	1.000000	
146	1.230594	1.187177	1.142319	1.096109	1.048637	1.000000	
148	1.241965	1.196361	1.149264	1.100772	1.050983	1.000000	
150	1.254130	1.206183	1.156690	1.105757	1.053490	1.000000	
152	1.267197	1.216729	1.164661	1.111106	1.056179	1.000000	
154	1.281295	1.228105	1.173257	1.116872	1.059077	1.000000	
156	1.296586	1.240441	1.182575	1.123121	1.062216	1.000000	
158	1.313276	1.253901	1.192739	1.129936	1.065639	1.000000	
160	1.331625	1.268695	1.203908	1.137422	1.069397	1.000000	
162	1.351980	1.285103	1.216292	1.145720	1.073562	1.000000	
164	1.374809	1.303499	1.230173	1.155018	1.078228	1.000000	
166	1.400765	1.324412	1.245949	1.165583	1.083528	1.000000	
168	1.430811	1.348614	1.264201	1.177804	1.089657	1.000000	
170	1.466431	1.377300	1.285831	1.192283	1.096916	1.000000	
172	1.510118	1.412476	1.312349	1.210030	1.105813	1.000000	
174	1.566539	1.457897	1.346585	1.232937	1.117293	1.000000	
176	1.646171	1.521995	1.394891	1.265254	1.133487	1.000000	
178	1.782444	1.631673	1.477537	1.320538	1.161186	1.000000	
180	∞	∞	∞	∞	∞	∞	1.000000

		$P_\nu(\cos \theta)$					
ν	θ	.00	.02	.04	.06	.08	.10
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	1.000000	.999993	.999987	.999980	.999973	.999966	.999966
4	1.000000	.999975	.999949	.999922	.999894	.999866	.999866
6	1.000000	.999944	.999885	.999825	.999763	.999698	.999698
8	1.000000	.999900	.999797	.999689	.999578	.999463	.999463
10	1.000000	.999844	.999682	.999515	.999341	.999161	.999161
12	1.000000	.999776	.999543	.999301	.999051	.998791	.998791
14	1.000000	.999694	.999377	.999048	.998707	.998354	.998354
16	1.000000	.999601	.999186	.998756	.998310	.997849	.997849
18	1.000000	.999494	.998969	.998424	.997860	.997276	.997276
20	1.000000	.999375	.998726	.998053	.997356	.996634	.996634
22	1.000000	.999243	.998457	.997642	.996798	.995924	.995924
24	1.000000	.999098	.998162	.997191	.996185	.995145	.995145
26	1.000000	.998940	.997841	.996700	.995518	.994296	.994296
28	1.000000	.998770	.997492	.996168	.994796	.993377	.993377
30	1.000000	.998586	.997117	.995595	.994018	.992387	.992387
32	1.000000	.998388	.996715	.994980	.993184	.991326	.991326
34	1.000000	.998177	.996286	.994324	.992294	.990194	.990194
36	1.000000	.997953	.995829	.993627	.991347	.988990	.988990
38	1.000000	.997715	.995344	.992886	.990342	.987712	.987712
40	1.000000	.997463	.994831	.992103	.989279	.986361	.986361
42	1.000000	.997197	.994289	.991276	.988158	.984936	.984936
44	1.000000	.996917	.993719	.990406	.986977	.983435	.983435
46	1.000000	.996623	.993119	.989490	.985736	.981858	.981858
48	1.000000	.996314	.992490	.988530	.984434	.980203	.980203
50	1.000000	.995990	.991831	.987524	.983071	.978471	.978471
52	1.000000	.995651	.991141	.986472	.981644	.976659	.976659
54	1.000000	.995297	.990420	.985373	.980155	.974767	.974767
56	1.000000	.994927	.989668	.984225	.978600	.972794	.972794
58	1.000000	.994541	.988884	.983029	.976980	.970737	.970737
60	1.000000	.994139	.988067	.981784	.975293	.968596	.968596
62	1.000000	.993721	.987216	.980488	.973538	.966369	.966369
64	1.000000	.993286	.986332	.979140	.971714	.964055	.964055
66	1.000000	.992834	.985413	.977740	.969819	.961652	.961652
68	1.000000	.992364	.984459	.976287	.967852	.959158	.959158
70	1.000000	.991876	.983468	.974778	.965811	.956571	.956571
72	1.000000	.991370	.982441	.973214	.963696	.953889	.953889
74	1.000000	.990846	.981375	.971592	.961503	.951111	.951111
76	1.000000	.990302	.980271	.969912	.959231	.948233	.948233
78	1.000000	.989738	.979126	.968171	.956878	.945254	.945254
80	1.000000	.989154	.977941	.966368	.954442	.942170	.942170
82	1.000000	.988548	.976713	.964502	.951921	.938980	.938980
84	1.000000	.987922	.975443	.962570	.949313	.935679	.935679
86	1.000000	.987273	.974127	.960571	.946614	.932266	.932266
88	1.000000	.986601	.972765	.958503	.943822	.928735	.928735
90	1.000000	.985906	.971356	.956362	.940935	.925085	.925085

		$P_\nu(\cos \theta)$					
ν		.00	.02	.04	.06	.08	.10
θ							
90	1.000000	.985906	.971356	.956362	.940935	.925085	
92	1.000000	.985185	.969898	.954148	.937948	.921311	
94	1.000000	.984440	.968388	.951856	.934859	.917409	
96	1.000000	.983668	.966826	.949486	.931663	.913373	
98	1.000000	.982869	.965208	.947033	.928358	.909201	
100	1.000000	.982042	.963534	.944494	.924938	.904885	
102	1.000000	.981184	.961800	.941866	.921400	.900422	
104	1.000000	.980297	.960005	.939145	.917738	.895804	
106	1.000000	.979376	.958145	.936328	.913946	.891025	
108	1.000000	.978422	.956217	.933409	.910020	.886077	
110	1.000000	.977433	.954219	.930384	.905953	.880954	
112	1.000000	.976407	.952147	.927247	.901738	.875647	
114	1.000000	.975341	.949996	.923994	.897367	.870146	
116	1.000000	.974234	.947763	.920618	.892832	.864441	
118	1.000000	.973085	.945443	.917111	.888125	.858521	
120	1.000000	.971889	.943032	.913468	.883235	.852374	
122	1.000000	.970644	.940523	.909678	.878152	.845986	
124	1.000000	.969347	.937910	.905734	.872863	.839343	
126	1.000000	.967995	.935187	.901624	.867355	.832428	
128	1.000000	.966584	.932347	.897338	.861612	.825222	
130	1.000000	.965110	.929379	.892864	.855619	.817704	
132	1.000000	.963567	.926276	.888185	.849357	.809852	
134	1.000000	.961951	.923025	.883288	.842803	.801639	
136	1.000000	.960255	.919616	.878152	.835934	.793034	
138	1.000000	.958472	.916033	.872759	.828723	.784004	
140	1.000000	.956594	.912262	.867082	.821137	.774510	
142	1.000000	.954613	.908283	.861096	.813141	.764506	
144	1.000000	.952516	.904074	.854768	.804691	.753940	
146	1.000000	.950292	.899612	.848060	.795739	.742750	
148	1.000000	.947925	.894865	.840929	.786224	.730862	
150	1.000000	.945398	.889799	.833319	.776077	.718190	
152	1.000000	.942689	.884370	.825169	.765212	.704628	
154	1.000000	.939771	.878526	.816398	.753526	.690047	
156	1.000000	.936613	.872201	.806910	.740889	.674286	
158	1.000000	.933172	.865313	.796582	.727138	.657143	
160	1.000000	.929396	.857757	.785255	.712063	.638358	
162	1.000000	.925214	.849392	.772720	.695388	.617586	
164	1.000000	.920532	.840030	.758696	.676738	.594363	
166	1.000000	.915218	.829405	.742786	.655587	.568036	
168	1.000000	.909075	.817129	.724409	.631166	.537648	
170	1.000000	.901803	.802600	.702666	.602279	.501716	
172	1.000000	.892895	.784808	.676048	.566926	.457754	
174	1.000000	.881405	.761863	.641727	.521353	.401097	
176	1.000000	.865203	.729515	.593353	.457134	.321277	
178	1.000000	.837499	.674210	.510659	.347373	.184873	
180	1.000000	- ∞	- ∞	- ∞	- ∞	- ∞	

		$P_\nu(\cos \theta)$				
ν	.10	.12	.14	.16	.18	.20
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999966	.999959	.999951	.999943	.999935	.999926
4	.999866	.999836	.999805	.999773	.999741	.999707
6	.999698	.999631	.999562	.999491	.999417	.999341
8	.999463	.999344	.999221	.999094	.998964	.998829
10	.999161	.998975	.998783	.998585	.998381	.998170
12	.998791	.998524	.998247	.997961	.997667	.997365
14	.998354	.997989	.997613	.997224	.996824	.996411
16	.997849	.997373	.996880	.996373	.995849	.995311
18	.997276	.996672	.996049	.995406	.994744	.994062
20	.996634	.995889	.995119	.994325	.993507	.992665
22	.995924	.995021	.994089	.993128	.992138	.991118
24	.995145	.994069	.992959	.991815	.990636	.989422
26	.994296	.993033	.991729	.990385	.989000	.987575
28	.993377	.991910	.990397	.988837	.987231	.985577
30	.992387	.990702	.988964	.987172	.985326	.983427
32	.991326	.989408	.987428	.985387	.983286	.981124
34	.990194	.988026	.985788	.983483	.981109	.978667
36	.988990	.986556	.984045	.981458	.978794	.976055
38	.987712	.984997	.982196	.979311	.976341	.973287
40	.986361	.983348	.980242	.977041	.973748	.970361
42	.984936	.981609	.978180	.974647	.971013	.967277
44	.983435	.979779	.976010	.972129	.968136	.964032
46	.981858	.977855	.973730	.969483	.965115	.960626
48	.980203	.975838	.971340	.966710	.961948	.957056
50	.978471	.973727	.968838	.963807	.958634	.953321
52	.976659	.971518	.966223	.960773	.955172	.949420
54	.974767	.969213	.963492	.957607	.951558	.945349
56	.972794	.966808	.960645	.954306	.947792	.941107
58	.970737	.964303	.957679	.950868	.943872	.936692
60	.968596	.961695	.954593	.947292	.939794	.932101
62	.966369	.958984	.951385	.943575	.935556	.927332
64	.964055	.956167	.948053	.939715	.931157	.922382
66	.961652	.953242	.944594	.935709	.926593	.917248
68	.959158	.950208	.941006	.931555	.921861	.911927
70	.956571	.947061	.937286	.927251	.916959	.906415
72	.953889	.943800	.933432	.922792	.911883	.900710
74	.951111	.940422	.929442	.918175	.906629	.894807
76	.948233	.936924	.925311	.913399	.901194	.888703
78	.945254	.933304	.921037	.908458	.895574	.882393
80	.942170	.929559	.916616	.903348	.889764	.875872
82	.938980	.925684	.912044	.898067	.883761	.869136
84	.935679	.921678	.907318	.892608	.877559	.862179
86	.932266	.917535	.902432	.886968	.871152	.854996
88	.928735	.913252	.897384	.881142	.864537	.847581
90	.925085	.908825	.892167	.875123	.857705	.839927

		$P_\nu(\cos \theta)$					
ν		.10	.12	.14	.16	.18	.20
θ							
90		.925085	.908825	.892167	.875123	.857705	.839926
92		.921311	.904249	.886777	.868906	.850652	.832027
94		.917409	.899520	.881207	.862485	.843369	.823874
96		.913373	.894631	.875452	.855853	.835850	.815460
98		.909201	.889578	.869506	.849003	.828087	.806776
100		.904885	.884353	.863361	.841927	.820071	.797813
102		.900422	.878951	.857009	.834616	.811792	.788560
104		.895804	.873365	.850443	.827061	.803241	.779007
106		.891025	.867585	.843653	.819251	.794406	.769142
108		.886077	.861605	.836630	.811178	.785276	.758951
110		.880954	.855415	.829363	.802827	.775837	.748421
112		.875647	.849004	.821841	.794187	.766075	.737536
114		.870146	.842362	.814051	.785243	.755974	.726279
116		.864441	.835478	.805979	.775980	.745519	.714631
118		.858521	.828336	.797610	.766381	.734689	.702572
120		.852374	.820925	.788928	.756427	.723464	.690080
122		.845986	.813226	.779915	.746098	.711821	.677130
124		.839343	.805223	.770549	.735370	.699735	.663694
126		.832428	.796895	.760808	.724218	.687178	.649741
128		.825222	.788222	.750667	.712613	.674118	.635237
130		.817704	.779177	.740097	.700524	.660519	.620144
132		.809852	.769734	.729067	.687915	.646343	.604417
134		.801639	.759862	.717541	.674745	.631544	.588009
136		.793034	.749524	.705477	.660967	.616071	.570862
138		.784004	.738680	.692829	.646530	.599865	.552914
140		.774510	.727283	.679543	.631373	.582861	.534091
142		.764506	.715281	.665557	.615426	.564979	.514309
144		.753940	.702610	.650800	.598607	.546130	.493468
146		.742750	.689197	.635186	.580820	.526207	.471452
148		.730862	.674955	.618614	.561954	.505086	.448124
150		.718190	.659780	.600966	.541871	.482615	.423320
152		.704628	.643546	.582096	.520408	.458613	.396840
154		.690047	.626101	.561827	.497365	.432857	.368441
156		.674286	.607252	.539938	.472494	.405071	.337819
158		.657143	.586760	.516151	.445478	.374905	.304592
160		.638358	.564314	.490107	.415914	.341909	.268267
162		.617586	.539505	.461335	.383267	.305491	.228193
164		.594363	.511779	.429193	.346813	.264844	.183488
166		.568036	.480360	.392784	.305536	.218839	.132914
168		.537648	.444107	.350790	.257947	.165821	.074655
170		.501716	.401254	.301169	.201734	.103220	.005894
172		.457754	.348841	.240496	.133024	.026729	-.078093
174		.401097	.281311	.162347	.044552	-.071732	-.186170
176		.321277	.186195	.052299	-.080003	-.210315	-.338245
178		.184873	.023681	-.135689	-.292734	-.446956	-.597869
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$P_\nu(\cos \theta)$				
ν	.20	.22	.24	.26	.28	.30
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999926	.999918	.999909	.999900	.999890	.999881
4	.999707	.999672	.999637	.999600	.999563	.999524
6	.999341	.999264	.999183	.999101	.999017	.998930
8	.998829	.998691	.998548	.998402	.998252	.998098
10	.998170	.997954	.997732	.997503	.997269	.997028
12	.997365	.997053	.996733	.996404	.996066	.995719
14	.996411	.995987	.995551	.995104	.994644	.994172
16	.995311	.994757	.994187	.993602	.993002	.992386
18	.994062	.993361	.992640	.991899	.991139	.990360
20	.992665	.991799	.990908	.989994	.989056	.988094
22	.991118	.990070	.988993	.987886	.986751	.985587
24	.989422	.988174	.986892	.985575	.984224	.982839
26	.987575	.986110	.984605	.983060	.981474	.979849
28	.985577	.983878	.982132	.980339	.978501	.976616
30	.983427	.981475	.979470	.977413	.975302	.973139
32	.981124	.978903	.976621	.974279	.971878	.969417
34	.978667	.976158	.973581	.970938	.968227	.965450
36	.976055	.973241	.970351	.967387	.964348	.961235
38	.973287	.970150	.966929	.963625	.960240	.956772
40	.970361	.966883	.963313	.959652	.955901	.952059
42	.967277	.963440	.959503	.955466	.951330	.947095
44	.964032	.959819	.955496	.951064	.946525	.941878
46	.960626	.956018	.951291	.946446	.941484	.936407
48	.957056	.952035	.946886	.941609	.936207	.930680
50	.953321	.947869	.942279	.936552	.930690	.924694
52	.949420	.943518	.937469	.931273	.924932	.918448
54	.945349	.938980	.932452	.925769	.918930	.911940
56	.941107	.934251	.927228	.920037	.912683	.905166
58	.936692	.929331	.921792	.914076	.906187	.898125
60	.932101	.924217	.916143	.907883	.899439	.890814
62	.927332	.918905	.910278	.901455	.892437	.883229
64	.922382	.913393	.904194	.894788	.885178	.875368
66	.917248	.907678	.897887	.887879	.877658	.867228
68	.911927	.901756	.891355	.880725	.869874	.858803
70	.906415	.895625	.884593	.873323	.861821	.850092
72	.900710	.889280	.877597	.865667	.853496	.841089
74	.894807	.882717	.870364	.857754	.844894	.831790
76	.888703	.875932	.862889	.849580	.836011	.822191
78	.882393	.868921	.855167	.841138	.826841	.812285
80	.875872	.861679	.847193	.832424	.817379	.802068
82	.869136	.854200	.838962	.823432	.807620	.791534
84	.862179	.846479	.830468	.814157	.797556	.780676
86	.854996	.838509	.821704	.804591	.787182	.769488
88	.847581	.830286	.812664	.794727	.776489	.757961
90	.839927	.821800	.803340	.784559	.765470	.746089

		$P_\nu(\cos \theta)$				
ν	.20	.22	.24	.26	.28	.30
θ						
90	.839926	.821800	.803340	.784559	.765470	.746089
92	.832027	.813046	.793725	.774077	.754117	.733862
94	.823874	.804016	.783810	.763273	.742421	.721271
96	.815460	.794700	.773586	.752137	.730371	.708306
98	.806776	.785089	.763044	.740660	.717958	.694956
100	.797813	.775173	.752172	.728830	.705169	.681209
102	.788560	.764942	.740960	.716635	.691992	.667053
104	.779007	.754384	.729394	.704062	.678414	.652473
106	.769142	.743485	.717461	.691097	.664419	.637454
108	.758951	.732232	.705147	.677724	.649991	.621979
110	.748421	.720610	.692435	.663926	.635114	.606031
112	.737536	.708603	.679308	.649685	.619767	.589588
114	.726279	.696191	.665746	.634981	.603930	.572630
116	.714631	.683355	.651729	.619790	.587578	.555132
118	.702572	.670073	.637232	.604089	.570687	.537067
120	.690080	.656321	.622230	.587851	.553228	.518406
122	.677130	.642072	.606695	.571044	.535169	.499116
124	.663694	.627297	.590594	.553636	.516475	.479160
126	.649741	.611961	.573893	.535590	.497107	.458499
128	.635237	.596029	.556552	.516863	.477022	.437085
130	.620144	.579459	.538527	.497410	.456170	.414869
132	.604417	.562203	.519767	.477176	.434495	.391792
134	.588009	.544209	.500216	.456102	.411935	.367789
136	.570862	.525417	.479811	.434120	.388419	.342784
138	.552914	.505757	.458476	.411151	.363863	.316692
140	.534091	.485152	.436128	.387107	.338174	.289415
142	.514309	.463508	.412668	.361883	.311242	.260838
144	.493468	.440719	.387983	.335357	.282940	.230827
146	.471452	.416660	.361937	.307388	.253116	.199225
148	.448124	.391182	.334372	.277805	.221594	.165846
150	.423320	.364107	.305096	.246407	.188158	.130466
152	.396840	.335219	.273880	.212948	.152552	.092815
154	.368441	.304255	.240439	.177128	.114457	.052559
156	.337819	.270887	.204423	.138572	.073479	.009285
158	.304592	.234700	.165387	.096809	.029120	-.037528
160	.268267	.195159	.122757	.051227	-.019264	-.088557
162	.228193	.151561	.075778	.001023	-.072524	-.144693
164	.183488	.102949	.023423	-.054893	-.131811	-.207144
166	.132914	.047981	-.035746	-.118056	-.198745	-.277609
168	.074655	-.015310	-.103844	-.190715	-.275700	-.358582
170	.005894	-.089981	-.184149	-.276358	-.366365	-.453931
172	-.078093	-.181152	-.282160	-.380842	-.476926	-.570152
174	-.186170	-.298432	-.408196	-.515150	-.618993	-.719432
176	-.338245	-.463409	-.585436	-.703967	-.818652	-.929158
178	-.597869	-.745000	-.887891	-1.026099	-1.159199	-1.286784
180	-∞	-∞	-∞	-∞	-∞	-∞

		$P_v(\cos \theta)$				
ν	.30	.32	.34	.36	.38	.40
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999881	.999871	.999861	.999850	.999840	.999829
4	.999524	.999485	.999444	.999403	.999361	.999317
6	.998930	.998841	.998750	.998657	.998562	.998464
8	.998098	.997940	.997778	.997613	.997443	.997270
10	.997028	.996781	.996529	.996270	.996005	.995734
12	.995719	.995364	.995000	.994628	.994247	.993857
14	.994172	.993689	.993194	.992687	.992168	.991638
16	.992386	.991755	.991108	.990446	.989769	.989076
18	.990360	.989561	.988743	.987906	.987049	.986173
20	.988094	.987108	.986099	.985065	.984008	.982927
22	.985587	.984395	.983173	.981924	.980645	.979338
24	.982839	.981421	.979967	.978481	.976960	.975405
26	.979849	.978184	.976480	.974736	.972952	.971129
28	.976616	.974686	.972710	.970688	.968621	.966509
30	.973139	.970924	.968657	.966337	.963966	.961544
32	.969417	.966898	.964319	.961682	.958987	.956233
34	.965450	.962606	.959697	.956722	.953681	.950576
36	.961235	.958048	.954788	.951455	.948050	.944572
38	.956772	.953223	.949592	.945882	.942091	.938221
40	.952059	.948128	.944108	.939999	.935803	.931520
42	.947095	.942763	.938333	.933808	.929187	.924471
44	.941878	.937126	.932268	.927305	.922239	.917070
46	.936407	.931215	.925909	.920490	.914959	.909318
48	.930680	.925029	.919255	.913360	.907346	.901212
50	.924694	.918565	.912305	.905915	.899397	.892752
52	.918448	.911822	.905056	.898152	.891111	.883935
54	.911940	.904798	.897507	.890070	.882487	.874761
56	.905166	.897489	.889655	.881665	.873521	.865227
58	.898125	.889895	.881497	.872936	.864213	.855331
60	.890814	.882010	.873032	.863880	.854559	.845072
62	.883229	.873834	.864255	.854495	.844557	.834446
64	.875368	.865362	.855164	.844777	.834205	.823452
66	.867228	.856592	.845756	.834723	.823498	.812086
68	.858803	.847520	.836027	.824331	.812435	.800345
70	.850092	.838141	.825974	.813595	.801011	.788227
72	.841089	.828452	.815592	.802513	.789223	.775727
74	.831790	.818449	.804876	.791080	.777066	.762841
76	.822191	.808126	.793823	.779291	.764536	.749566
78	.812285	.797478	.782427	.767141	.751628	.735897
80	.802068	.786499	.770682	.754625	.738337	.721829
82	.791534	.775185	.758582	.741736	.724657	.707355
84	.780676	.763528	.746122	.728470	.710583	.692471
86	.769488	.751521	.733294	.714818	.696106	.677170
88	.757961	.739158	.720091	.700774	.681221	.661445
90	.746089	.726429	.706504	.686329	.665918	.645287

		$P_\nu(\cos \theta)$					
ν		.30	.32	.34	.36	.38	.40
θ							
90		.746089	.726428	.706504	.686328	.665918	.645287
92		.733862	.713326	.692524	.671474	.650190	.628689
94		.721271	.699839	.678143	.656200	.634027	.611642
96		.708306	.685959	.663350	.640497	.617419	.594135
98		.694956	.671674	.648134	.624353	.600355	.576158
100		.681209	.656973	.632481	.607757	.582822	.557698
102		.667053	.641841	.616380	.590694	.564807	.538742
104		.652473	.626265	.599816	.573151	.546295	.519276
106		.637454	.610229	.582772	.555110	.527271	.499284
108		.621979	.593716	.565231	.536555	.507717	.478748
110		.606031	.576707	.547175	.517467	.487614	.457649
112		.589588	.559182	.528582	.497823	.466940	.435966
114		.572630	.541118	.509429	.477602	.445671	.413675
116		.555132	.522490	.489691	.456776	.423783	.390751
118		.537067	.503271	.469340	.435317	.401245	.367164
120		.518406	.483430	.448345	.413195	.378026	.342881
122		.499116	.462934	.426670	.390373	.354090	.317868
124		.479160	.441744	.404277	.366811	.329397	.292084
126		.458499	.419820	.381124	.342467	.303902	.265483
128		.437085	.397113	.357162	.317290	.277556	.238016
130		.414869	.373570	.332335	.291225	.250301	.209624
132		.391792	.349133	.306583	.264208	.222073	.180242
134		.367789	.323732	.279835	.236168	.192799	.149797
136		.342784	.297290	.252012	.207023	.162396	.118203
138		.316692	.269719	.223021	.176678	.130767	.085364
140		.289415	.240915	.192758	.145026	.097802	.051166
142		.260838	.210760	.161098	.111940	.063371	.015479
144		.230827	.179116	.127899	.077272	.027325	-.021851
146		.199225	.145817	.092992	.040849	-.010514	-.061004
148		.165846	.110672	.056177	.002465	-.050359	-.102197
150		.130466	.073446	.017211	-.038127	-.092462	-.145687
152		.092815	.033859	-.024195	-.081230	-.137132	-.191789
154		.052559	-.008436	-.068402	-.127212	-.184747	-.240887
156		.009285	-.053870	-.115854	-.176533	-.235777	-.293464
158		-.037528	-.102989	-.167117	-.229773	-.290821	-.350129
160		-.088557	-.156494	-.222919	-.287686	-.350648	-.411669
162		-.144693	-.215314	-.284224	-.351263	-.416279	-.479124
164		-.207144	-.280711	-.352337	-.421853	-.489096	-.553910
166		-.277609	-.354457	-.429098	-.501353	-.571047	-.638016
168		-.358582	-.439150	-.517203	-.592545	-.664990	-.734363
170		-.453931	-.538830	-.620840	-.699752	-.775366	-.847492
172		-.570152	-.660270	-.747040	-.830231	-.909627	-.985024
174		-.719432	-.816190	-.908998	-.997605	-1.081771	-1.161274
176		-.929158	-1.035167	-1.136374	-1.232494	-1.323258	-1.408417
178		-1.286784	-1.408468	-1.523885	-1.632694	-1.734575	-1.829235
180		-∞	-∞	-∞	-∞	-∞	-∞

		$P_\nu(\cos \theta)$				
ν	.40	.42	.44	.46	.48	.50
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999829	.999818	.999807	.999795	.999783	.999771
4	.999317	.999273	.999227	.999181	.999134	.999086
6	.998464	.998364	.998262	.998158	.998052	.997944
8	.997270	.997093	.996911	.996726	.996537	.996345
10	.995734	.995457	.995174	.994885	.994590	.994289
12	.993857	.993458	.993051	.992635	.992210	.991777
14	.991638	.991095	.990541	.989975	.989398	.988808
16	.989076	.988368	.987645	.986907	.986153	.985384
18	.986173	.985277	.984363	.983429	.982476	.981503
20	.982927	.981822	.980694	.979542	.978366	.977167
22	.979338	.978002	.976638	.975246	.973825	.972376
24	.975405	.973817	.972196	.970540	.968852	.967130
26	.971129	.969267	.967366	.965426	.963447	.961429
28	.966509	.964351	.962149	.959902	.957610	.955274
30	.961544	.959070	.956544	.953968	.951342	.948664
32	.956233	.953421	.950552	.947625	.944642	.941601
34	.950576	.947406	.944171	.940873	.937511	.934085
36	.944572	.941023	.937402	.933710	.929948	.926116
38	.938221	.934271	.930243	.926138	.921955	.917694
40	.931520	.927151	.922695	.918155	.913529	.908820
42	.924471	.919660	.914757	.909761	.904673	.899495
44	.917070	.911799	.906428	.900956	.895385	.889717
46	.909318	.903566	.897707	.891740	.885666	.879488
48	.901212	.894961	.888593	.882111	.875515	.868807
50	.892752	.885981	.879087	.872070	.864932	.857676
52	.883935	.876626	.869185	.861615	.853917	.846093
54	.874761	.866894	.858888	.850746	.842469	.834059
56	.865227	.856784	.848195	.839462	.830587	.821574
58	.855331	.846294	.837103	.827761	.818271	.808637
60	.845072	.835421	.825610	.815642	.805521	.795249
62	.834446	.824165	.813716	.803105	.792334	.781408
64	.823452	.812522	.801419	.790147	.778710	.767113
66	.812086	.800490	.788715	.776766	.764648	.752366
68	.800345	.788066	.775603	.762962	.750146	.737163
70	.788227	.775248	.762080	.748730	.735203	.721504
72	.775727	.762032	.748144	.734069	.719815	.705388
74	.762841	.748414	.733790	.718977	.703982	.688812
76	.749566	.734390	.719015	.703449	.687699	.671776
78	.735897	.719957	.703815	.687482	.670966	.654275
80	.721829	.705109	.688187	.671073	.653777	.636308
82	.707355	.689841	.672125	.654217	.636129	.617872
84	.692471	.674148	.655623	.636910	.618019	.598963
86	.677170	.658023	.638677	.619145	.599441	.579576
88	.661445	.641460	.621280	.600918	.580389	.559708
90	.645287	.624451	.603424	.582222	.560859	.539352

		$P_\nu(\cos \theta)$					
ν	θ	.40	.42	.44	.46	.48	.50
90		.645287	.624451	.603424	.582221	.560859	.539352
92		.628689	.606988	.585102	.563048	.540843	.518504
94		.611642	.589063	.566306	.543391	.520335	.497156
96		.594135	.570665	.547026	.523240	.499325	.475301
98		.576158	.551784	.527253	.502586	.477805	.452930
100		.557698	.532408	.506973	.481418	.455764	.430034
102		.538742	.512524	.486176	.459724	.433192	.406603
104		.519276	.492118	.464848	.437491	.410075	.382624
106		.499284	.471174	.442972	.414704	.386399	.358084
108		.478748	.449676	.420532	.391346	.362148	.332968
110		.457649	.427604	.397510	.367400	.337306	.307260
112		.435966	.404936	.373884	.342845	.311852	.280940
114		.413675	.381650	.349632	.317658	.285765	.253988
116		.390751	.357720	.324728	.291815	.259019	.226379
118		.367164	.333116	.299143	.265287	.231588	.198088
120		.342881	.307807	.272846	.238043	.203441	.169083
122		.317868	.281756	.245800	.210047	.174542	.139332
124		.292084	.254924	.217966	.181259	.144853	.108796
126		.265483	.227264	.189297	.151635	.114329	.077431
128		.238016	.198727	.159745	.121125	.082921	.045188
130		.209624	.169254	.129249	.089669	.050571	.012012
132		.180242	.138779	.097745	.057204	.017215	-.022161
134		.149797	.107228	.065159	.023654	-.017221	-.057406
136		.118203	.074516	.031403	-.011065	-.052824	-.093807
138		.085364	.040543	-.003620	-.047055	-.089692	-.131462
140		.051166	.005197	-.040026	-.084430	-.127939	-.170483
142		.015479	-.031655	-.077948	-.123322	-.167699	-.211004
144		-.021851	-.070169	-.117543	-.163890	-.209129	-.253180
146		-.061004	-.110528	-.158996	-.206319	-.252414	-.297197
148		-.102197	-.152951	-.202526	-.250830	-.297775	-.343276
150		-.145687	-.197699	-.248399	-.297691	-.345481	-.391682
152		-.191789	-.245092	-.296937	-.347224	-.395855	-.442739
154		-.240887	-.295520	-.348536	-.399829	-.449298	-.496847
156		-.293464	-.349474	-.403690	-.456003	-.506308	-.554505
158		-.350129	-.407571	-.463027	-.516380	-.567521	-.616347
160		-.411669	-.470613	-.527356	-.581775	-.633756	-.683192
162		-.479124	-.539659	-.597750	-.653269	-.706099	-.756128
164		-.553910	-.616147	-.675666	-.732334	-.786029	-.836633
166		-.638016	-.702101	-.763156	-.821040	-.875624	-.926789
168		-.734363	-.800496	-.863233	-.922427	-.977943	-1.029657
170		-.847492	-.915953	-.980582	-1.041224	-1.097740	-1.149999
172		-.985024	-1.056231	-1.123069	-1.185376	-1.243002	-1.295815
174		-1.161274	-1.235904	-1.305472	-1.369802	-1.428737	-1.482138
176		-1.408417	-1.487739	-1.561016	-1.628056	-1.688692	-1.742778
178		-1.829235	-1.916405	-1.995845	-2.067339	-2.130701	-2.185774
180		-∞	-∞	-∞	-∞	-∞	-∞

		$P_\nu(\cos \theta)$				
ν	.50	.52	.54	.56	.58	.60
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999771	.999759	.999746	.999733	.999720	.999707
4	.999086	.999037	.998986	.998935	.998883	.998830
6	.997944	.997833	.997720	.997605	.997488	.997368
8	.996345	.996148	.995947	.995743	.995535	.995322
10	.994289	.993982	.993669	.993349	.993024	.992693
12	.991777	.991335	.990884	.990425	.989957	.989480
14	.988808	.988207	.987594	.986970	.986334	.985686
16	.985384	.984600	.983800	.982985	.982156	.981311
18	.981503	.980512	.979501	.978472	.977423	.976355
20	.977167	.975945	.974699	.973430	.972137	.970821
22	.972376	.970899	.969394	.967860	.966299	.964710
24	.967130	.965375	.963586	.961765	.959911	.958023
26	.961429	.959372	.957277	.955144	.952973	.950763
28	.955274	.952893	.950468	.947999	.945486	.942930
30	.948664	.945937	.943159	.940331	.937454	.934528
32	.941601	.938504	.935351	.932142	.928877	.925557
34	.934085	.930597	.927046	.923433	.919758	.916021
36	.926116	.922214	.918244	.914204	.910097	.905921
38	.917694	.913358	.908946	.904459	.899897	.895261
40	.908820	.904028	.899154	.894197	.889160	.884042
42	.899495	.894226	.888868	.883421	.877888	.872267
44	.889717	.883951	.878090	.872133	.866083	.859939
46	.879488	.873205	.866820	.860334	.853747	.847061
48	.868807	.861989	.855061	.848025	.840883	.833635
50	.857676	.850302	.842812	.835208	.827492	.819665
52	.846093	.838145	.830075	.821885	.813577	.805153
54	.834059	.825519	.816851	.808058	.799141	.790103
56	.821574	.812424	.803141	.793727	.784185	.774516
58	.808637	.798861	.788946	.778895	.768711	.758398
60	.795249	.784829	.774266	.763563	.752722	.741749
62	.781408	.770329	.759102	.747732	.736221	.724573
64	.767113	.755360	.743455	.731403	.719208	.706874
66	.752366	.739923	.727326	.714578	.701686	.688653
68	.737163	.724017	.710713	.697258	.683656	.669914
70	.721504	.707641	.693618	.679443	.665122	.650660
72	.705388	.690794	.676041	.661135	.646083	.630892
74	.688812	.673476	.657981	.642333	.626542	.610613
76	.671776	.655685	.639437	.623038	.606499	.589826
78	.654275	.637420	.620408	.603250	.585955	.568532
80	.636308	.618677	.600894	.582969	.564911	.546732
82	.617872	.599456	.580893	.562193	.543368	.524429
84	.598963	.579753	.560402	.540922	.521325	.501623
86	.579576	.559565	.539420	.519154	.498781	.478315
88	.559708	.538887	.517942	.496887	.475736	.454504
90	.539352	.517716	.495967	.474119	.452189	.430192

		$P_\nu(\cos \theta)$					
ν		.50	.52	.54	.56	.58	.60
θ							
90		.539352	.517716	.495966	.474118	.452188	.430191
92		.518504	.496046	.473488	.450845	.428135	.405375
94		.497156	.473872	.450502	.427064	.403575	.380055
96		.475301	.451187	.427003	.402768	.378503	.354227
98		.452930	.427983	.402984	.377954	.352916	.327889
100		.430034	.404251	.378437	.352615	.326807	.301037
102		.406603	.379982	.353354	.326743	.300172	.273666
104		.382624	.355165	.327725	.300328	.273001	.245769
106		.358084	.329788	.301538	.273362	.245287	.217340
108		.332968	.303836	.274780	.245831	.217018	.188369
110		.307260	.277293	.247438	.217724	.188183	.158847
112		.280940	.250143	.219493	.189023	.158768	.128759
114		.253988	.222363	.190926	.159713	.128756	.098092
116		.226379	.193933	.161718	.129771	.098130	.066829
118		.198088	.164826	.131842	.099176	.066866	.034951
120		.169083	.135013	.101272	.067901	.034941	.002433
122		.139332	.104462	.069975	.035916	.002327	-.030748
124		.108796	.073134	.037916	.003187	-.031008	-.064627
126		.077431	.040989	.005054	-.030325	-.065104	-.099236
128		.045188	.007978	-.028656	-.064667	-.100003	-.134617
130		.012012	-.025953	-.063271	-.099888	-.135753	-.170817
132		-.022161	-.060869	-.098850	-.136049	-.172413	-.207891
134		-.057406	-.096840	-.135463	-.173218	-.210049	-.245902
136		-.093807	-.133951	-.173193	-.211475	-.248737	-.284924
138		-.131462	-.172297	-.212135	-.250911	-.288567	-.325044
140		-.170483	-.211991	-.252397	-.291635	-.329644	-.366363
142		-.211004	-.253164	-.294109	-.333773	-.372091	-.409001
144		-.253180	-.295970	-.337424	-.377474	-.416054	-.453099
146		-.297197	-.340592	-.382522	-.422916	-.461706	-.498827
148		-.343276	-.387250	-.429620	-.470312	-.509256	-.546386
150		-.391682	-.436208	-.478979	-.519919	-.558956	-.596023
152		-.442739	-.487787	-.530917	-.572051	-.611114	-.648039
154		-.496847	-.542386	-.585828	-.627095	-.666110	-.702805
156		-.554505	-.600500	-.644204	-.685536	-.724420	-.760787
158		-.616346	-.662760	-.706670	-.747994	-.786654	-.822581
160		-.683192	-.729984	-.774037	-.815267	-.853597	-.888957
162		-.756128	-.803253	-.847378	-.888418	-.926294	-.960939
164		-.836633	-.884042	-.928157	-.968893	-1.006171	-1.039923
166		-.926789	-.974426	-1.018435	-1.058730	-1.095233	-1.127879
168		-1.029657	-1.077458	-1.121245	-1.160930	-1.196438	-1.227706
170		-1.149999	-1.197888	-1.241304	-1.280161	-1.314385	-1.343918
172		-1.295815	-1.343697	-1.386545	-1.424273	-1.456813	-1.484109
174		-1.482138	-1.529884	-1.571873	-1.608021	-1.638264	-1.662558
176		-1.742778	-1.790188	-1.830823	-1.864602	-1.891471	-1.911396
178		-2.185774	-2.232430	-2.270569	-2.300122	-2.321050	-2.333342
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$P_\nu(\cos \theta)$				
ν	.60	.62	.64	.66	.68	.70
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999707	.999694	.999680	.999666	.999652	.999637
4	.998830	.998776	.998721	.998665	.998608	.998550
6	.997368	.997247	.997123	.996997	.996869	.996738
8	.995322	.995106	.994886	.994663	.994435	.994203
10	.992693	.992356	.992012	.991663	.991308	.990946
12	.989480	.988995	.988501	.987999	.987488	.986968
14	.985686	.985027	.984355	.983672	.982978	.982272
16	.981311	.980450	.979575	.978685	.977779	.976859
18	.976355	.975268	.974163	.973038	.971894	.970732
20	.970821	.969482	.968120	.966734	.965326	.963894
22	.964710	.963093	.961448	.959776	.958076	.956348
24	.958023	.956103	.954151	.952166	.950148	.948098
26	.950763	.948515	.946230	.943906	.941546	.939148
28	.942930	.940331	.937688	.935002	.932273	.929501
30	.934528	.931552	.928527	.925454	.922333	.919163
32	.925557	.922182	.918752	.915268	.911730	.908138
34	.916021	.912223	.908365	.904447	.900468	.896431
36	.905921	.901679	.897370	.892995	.888554	.884047
38	.895261	.890552	.885770	.880916	.875990	.870993
40	.884042	.878845	.873568	.868214	.862783	.857275
42	.872267	.866561	.860770	.854895	.848937	.842897
44	.859939	.853704	.847378	.840963	.834459	.827868
46	.847061	.840278	.833398	.826423	.819354	.812193
48	.833635	.826285	.818832	.811280	.803628	.795880
50	.819665	.811730	.803687	.795539	.787288	.778935
52	.805153	.796615	.787966	.779206	.770339	.761366
54	.790103	.780946	.771673	.762286	.752788	.743181
56	.774516	.764725	.754814	.744786	.734642	.724388
58	.758398	.747957	.737394	.726709	.715908	.704993
60	.741749	.730645	.719416	.708064	.696593	.685006
62	.724573	.712794	.700886	.688854	.676702	.664435
64	.706874	.694406	.681809	.669087	.656245	.643287
66	.688653	.675486	.662189	.648767	.635226	.621571
68	.669914	.656038	.642031	.627902	.613655	.599296
70	.650660	.636064	.621341	.606496	.591537	.576470
72	.630892	.615569	.600122	.584557	.568881	.553102
74	.610613	.594557	.578379	.562088	.545693	.529200
76	.589826	.573029	.556117	.539097	.521980	.504772
78	.568532	.550990	.533339	.515589	.497748	.479827
80	.546732	.528442	.510050	.491568	.473006	.454374
82	.524429	.505387	.486254	.467041	.447759	.428420
84	.501623	.481828	.461954	.442012	.422014	.401973
86	.478315	.457767	.437153	.416485	.395777	.375041
88	.454504	.433205	.411854	.390465	.369053	.347632
90	.430192	.408143	.386060	.363956	.341849	.319752

		$P_\nu(\cos \theta)$					
ν		.60	.62	.64	.66	.68	.70
θ							
90		.430191	.408143	.386059	.363956	.341848	.319752
92		.405375	.382582	.359771	.336961	.314168	.291408
94		.380055	.356520	.332990	.309483	.286016	.262608
96		.354227	.329958	.305718	.281524	.257397	.233355
98		.327889	.302894	.277953	.253086	.228314	.203656
100		.301037	.275325	.249695	.224169	.198769	.173515
102		.273666	.247248	.220943	.194774	.168763	.142935
104		.245769	.218658	.191693	.164898	.138299	.111920
106		.217340	.189549	.161940	.134540	.107375	.080470
108		.188369	.159914	.131680	.103696	.075989	.048587
110		.158847	.129744	.100906	.072361	.044139	.016268
112		.128759	.099028	.069607	.040528	.011820	-.016486
114		.098092	.067754	.037775	.008188	-.020975	-.049682
116		.066829	.035906	.005395	-.024669	-.054254	-.083327
118		.034951	.003467	-.027547	-.058058	-.088029	-.117427
120		.002433	-.029583	-.061072	-.091994	-.122313	-.151994
122		-.030748	-.063271	-.095201	-.126498	-.157124	-.187043
124		-.064627	-.097624	-.129959	-.161592	-.192481	-.222591
126		-.099236	-.132675	-.165378	-.197304	-.228410	-.258659
128		-.134617	-.168462	-.201493	-.233666	-.264940	-.295274
130		-.170817	-.205030	-.238345	-.270719	-.302107	-.332468
132		-.207891	-.242430	-.275984	-.308507	-.339952	-.370279
134		-.245902	-.280724	-.314467	-.347083	-.378525	-.408752
136		-.284924	-.319982	-.353861	-.386511	-.417886	-.447942
138		-.325044	-.360288	-.394245	-.426866	-.458104	-.487914
140		-.366363	-.401737	-.435712	-.468236	-.499262	-.528745
142		-.409001	-.444447	-.478372	-.510726	-.541459	-.570529
144		-.453099	-.488553	-.522357	-.554461	-.584816	-.613377
146		-.498827	-.534219	-.567825	-.599592	-.629474	-.657425
148		-.546386	-.581641	-.614963	-.646301	-.675606	-.702835
150		-.596023	-.631059	-.664004	-.694808	-.723424	-.749809
152		-.648039	-.682763	-.715229	-.745386	-.773187	-.798592
154		-.702805	-.737117	-.768989	-.798371	-.825218	-.849493
156		-.760787	-.794573	-.825723	-.854188	-.879924	-.902897
158		-.822581	-.855712	-.885994	-.913378	-.937825	-.959302
160		-.888957	-.921286	-.950530	-.976646	-.999596	-1.019354
162		-.960939	-.992292	-1.020302	-1.044929	-1.066140	-1.083913
164		-1.039923	-1.070093	-1.096633	-1.119506	-1.138686	-1.154156
166		-1.127879	-1.156613	-1.181392	-1.202186	-1.218973	-1.231747
168		-1.227706	-1.254683	-1.277333	-1.295631	-1.309566	-1.319139
170		-1.343918	-1.368714	-1.388745	-1.403994	-1.414461	-1.420160
172		-1.484109	-1.506127	-1.522845	-1.534261	-1.540387	-1.541253
174		-1.662558	-1.680875	-1.693210	-1.699576	-1.700004	-1.694546
176		-1.911396	-1.924368	-1.930402	-1.929533	-1.921822	-1.907350
178		-2.333342	-2.337019	-2.332131	-2.318756	-2.297004	-2.267011
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$P_\nu(\cos \theta)$					
ν		.70	.72	.74	.76	.78	.80
θ							
0		1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2		.999637	.999622	.999607	.999592	.999577	.999561
4		.998550	.998491	.998431	.998370	.998308	.998245
6		.996738	.996606	.996471	.996334	.996195	.996054
8		.994203	.993968	.993729	.993486	.993239	.992988
10		.990946	.990579	.990206	.989826	.989441	.989049
12		.986968	.986440	.985903	.985358	.984804	.984242
14		.982272	.981554	.980825	.980084	.979332	.978568
16		.976859	.975923	.974973	.974007	.973027	.972032
18		.970732	.969551	.968351	.967132	.965894	.964638
20		.963894	.962439	.960962	.959461	.957938	.956392
22		.956348	.954593	.952811	.951001	.949164	.947300
24		.948098	.946016	.943902	.941755	.939577	.937367
26		.939148	.936712	.934240	.931730	.929184	.926601
28		.929501	.926687	.923831	.920932	.917992	.915010
30		.919163	.915945	.912680	.909367	.906008	.902601
32		.908138	.904492	.900794	.897042	.893239	.889383
34		.896431	.892334	.888179	.883965	.879694	.875366
36		.884047	.879477	.874842	.870144	.865382	.860559
38		.870993	.865927	.860791	.855586	.850312	.844972
40		.857275	.851691	.846032	.840300	.834494	.828616
42		.842897	.836776	.830575	.824295	.817937	.811502
44		.827868	.821190	.814428	.807582	.800653	.793643
46		.812193	.804941	.797599	.790169	.782652	.775050
48		.795880	.788035	.780097	.772067	.763946	.755736
50		.778935	.770482	.761932	.753286	.744546	.735714
52		.761366	.752290	.743113	.733838	.724465	.714999
54		.743181	.733468	.723651	.713733	.703716	.693603
56		.724388	.714024	.703555	.692982	.682310	.671541
58		.704993	.693968	.682835	.671599	.660262	.648828
60		.685006	.673309	.661503	.649594	.637585	.625479
62		.664435	.652056	.639569	.626980	.614292	.601510
64		.643287	.630219	.617045	.603770	.590398	.576935
66		.621571	.607808	.593940	.579975	.565917	.551772
68		.599296	.584832	.570268	.555610	.540864	.526037
70		.576470	.561302	.546038	.530687	.515253	.499745
72		.553102	.537227	.521264	.505219	.489100	.472914
74		.529200	.512618	.495955	.479219	.462418	.445560
76		.504772	.487484	.470124	.452701	.435224	.417701
78		.479827	.461836	.443783	.425679	.407533	.389354
80		.454374	.435683	.416943	.398165	.379359	.360536
82		.428420	.409035	.389615	.370173	.350718	.331264
84		.401973	.381901	.361812	.341716	.321626	.301555
86		.375041	.354292	.333543	.312807	.292097	.271427
88		.347632	.326216	.304821	.283460	.262147	.240897
90		.319752	.297683	.275656	.253686	.231790	.209981

		$P_\nu(\cos \theta)$					
ν		.70	.72	.74	.76	.78	.80
θ							
90		.319752	.297682	.275655	.253686	.231789	.209981
92		.291408	.268699	.246057	.223499	.201040	.178697
94		.262608	.239276	.216037	.192911	.169913	.147061
96		.233355	.209418	.185604	.161933	.138422	.115090
98		.203656	.179134	.154768	.130577	.106580	.082798
100		.173515	.148431	.123536	.098853	.074401	.050203
102		.142935	.117312	.091917	.066772	.041898	.017317
104		.111920	.085785	.059918	.034342	.009080	-.015843
106		.080470	.053852	.027544	.001573	-.024038	-.049266
108		.048587	.021515	-.005198	-.031528	-.057450	-.082939
110		.016268	-.011222	-.038306	-.064956	-.091145	-.116849
112		-.016486	-.044361	-.071777	-.098704	-.125117	-.150987
114		-.049682	-.077904	-.105610	-.132771	-.159357	-.185343
116		-.083327	-.111854	-.139806	-.167152	-.193863	-.219909
118		-.117427	-.146218	-.174369	-.201850	-.228630	-.254680
120		-.151994	-.181002	-.209303	-.236866	-.263659	-.289652
122		-.187043	-.216219	-.244617	-.272205	-.298950	-.324822
124		-.222591	-.251882	-.280322	-.307875	-.334508	-.360192
126		-.258659	-.288012	-.316433	-.343887	-.370342	-.395766
128		-.295274	-.324629	-.352968	-.380257	-.406461	-.431550
130		-.332468	-.361763	-.389953	-.417004	-.442883	-.467557
132		-.370279	-.399447	-.427417	-.454155	-.479627	-.503801
134		-.408752	-.437722	-.465397	-.491740	-.516720	-.540305
136		-.447942	-.476638	-.503936	-.529800	-.554197	-.577097
138		-.487914	-.516255	-.543089	-.568381	-.592099	-.614213
140		-.528745	-.556645	-.582923	-.607544	-.630478	-.651697
142		-.570529	-.597893	-.623515	-.647360	-.669400	-.689607
144		-.613377	-.640105	-.664963	-.687918	-.708943	-.728013
146		-.657425	-.683406	-.707383	-.729324	-.749204	-.767001
148		-.702835	-.727951	-.750919	-.771711	-.790305	-.806681
150		-.749809	-.773927	-.795746	-.815242	-.832394	-.847186
152		-.798592	-.821567	-.842083	-.860119	-.875656	-.888685
154		-.849493	-.871162	-.890203	-.906594	-.920326	-.931392
156		-.902897	-.923079	-.940448	-.954991	-.966700	-.975576
158		-.959302	-.977787	-.993263	-1.005721	-1.015160	-1.021588
160		-1.019354	-1.035901	-1.049225	-1.059325	-1.066207	-1.069886
162		-1.083913	-1.098236	-1.109104	-1.116524	-1.120510	-1.121086
164		-1.154156	-1.165912	-1.173957	-1.178306	-1.178986	-1.176032
166		-1.231747	-1.240510	-1.245276	-1.246073	-1.242938	-1.235920
168		-1.319139	-1.324364	-1.325269	-1.321894	-1.314290	-1.302522
170		-1.420160	-1.421118	-1.417378	-1.408998	-1.396046	-1.378607
172		-1.541253	-1.536904	-1.527403	-1.512828	-1.493272	-1.468842
174		-1.694546	-1.683270	-1.666265	-1.643637	-1.615510	-1.582024
176		-1.907350	-1.886221	-1.858562	-1.824519	-1.784261	-1.737975
178		-2.267011	-2.228941	-2.182987	-2.129367	-2.068326	-2.000132
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$P_\nu(\cos \theta)$				
ν	.80	.82	.84	.86	.88	.90
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999561	.999545	.999529	.999512	.999496	.999479
4	.998245	.998182	.998117	.998051	.997984	.997917
6	.996054	.995910	.995765	.995617	.995467	.995315
8	.992988	.992733	.992475	.992212	.991946	.991676
10	.989049	.988652	.988249	.987840	.987424	.987003
12	.984242	.983671	.983091	.982503	.981906	.981301
14	.978568	.977792	.977005	.976207	.975396	.974575
16	.972032	.971021	.969996	.968956	.967901	.966831
18	.964638	.963363	.962070	.960758	.959427	.958078
20	.956392	.954823	.953232	.951618	.949981	.948322
22	.947300	.945409	.943490	.941545	.939573	.937575
24	.937367	.935125	.932852	.930548	.928212	.925844
26	.926601	.923982	.921326	.918635	.915907	.913143
28	.915010	.911987	.908922	.905816	.902670	.899483
30	.902601	.899148	.895649	.892104	.888513	.884876
32	.889383	.885476	.881518	.877508	.873448	.869338
34	.875366	.870981	.866539	.862042	.857489	.852882
36	.860559	.855673	.850726	.845719	.840651	.835524
38	.844972	.839564	.834090	.828552	.822948	.817280
40	.828616	.822666	.816645	.810555	.804396	.798169
42	.811502	.804991	.798405	.791745	.785012	.778207
44	.793643	.786552	.779383	.772136	.764813	.757414
46	.775050	.767364	.759595	.751745	.743816	.735809
48	.755736	.747439	.739056	.730590	.722042	.713413
50	.735714	.726793	.717783	.708688	.699508	.690247
52	.714999	.705440	.695792	.686056	.676235	.666332
54	.693603	.683396	.673099	.662714	.652244	.641691
56	.671541	.660678	.649724	.638682	.627555	.616347
58	.648828	.637300	.625683	.613978	.602191	.590324
60	.625479	.613281	.600995	.588624	.576173	.563646
62	.601510	.588637	.575680	.562640	.549525	.536337
64	.576935	.563386	.549755	.536048	.522269	.508423
66	.551772	.537545	.523242	.508868	.494429	.479931
68	.526037	.511133	.496161	.481124	.466030	.450885
70	.499745	.484168	.468530	.452837	.437096	.421314
72	.472914	.456669	.440372	.424030	.407652	.391243
74	.445560	.428654	.411706	.394727	.377722	.360702
76	.417701	.400142	.382555	.364949	.347334	.329716
78	.389354	.371153	.352939	.334722	.316511	.298316
80	.360536	.341706	.322880	.304068	.285280	.266528
82	.331264	.311820	.292399	.273011	.253668	.234382
84	.301555	.281515	.261518	.241576	.221701	.201905
86	.271427	.250810	.230258	.209786	.189405	.169128
88	.240897	.219724	.198642	.177664	.156806	.136079
90	.209981	.188277	.166690	.145236	.123930	.102787

ν	$P_\nu(\cos \theta)$					
	.80	.82	.84	.86	.88	.90
θ						
90	.209981	.188276	.166689	.145236	.123930	.102787
92	.178697	.156486	.134424	.112525	.090805	.069280
94	.147061	.124373	.101865	.079554	.057456	.035588
96	.115090	.091955	.069035	.046348	.023910	.001740
98	.082798	.059250	.035954	.012929	-.009806	-.032235
100	.050203	.026276	.002642	-.020679	-.043670	-.066312
102	.017317	-.006948	-.030879	-.054455	-.077655	-.100460
104	-.015843	-.040409	-.064593	-.088376	-.111735	-.134652
106	-.049266	-.074088	-.098480	-.122420	-.145888	-.168862
108	-.082939	-.107970	-.132521	-.156568	-.180088	-.203062
110	-.116849	-.142042	-.166699	-.190797	-.214314	-.237227
112	-.150987	-.176289	-.200999	-.225091	-.248543	-.271331
114	-.185343	-.210700	-.235404	-.259430	-.282753	-.305351
116	-.219909	-.245265	-.269902	-.293797	-.316925	-.339262
118	-.254680	-.279973	-.304480	-.328177	-.351039	-.373043
120	-.289652	-.314817	-.339127	-.362556	-.385079	-.406673
122	-.324822	-.349793	-.373835	-.396921	-.419027	-.440131
124	-.360192	-.384898	-.408596	-.431262	-.452870	-.473400
126	-.395766	-.420130	-.443407	-.465570	-.486597	-.506464
128	-.431550	-.455494	-.478267	-.499842	-.520196	-.539309
130	-.467557	-.490997	-.513177	-.534073	-.553661	-.571922
132	-.503801	-.526649	-.548146	-.568266	-.586989	-.604297
134	-.540305	-.562467	-.583182	-.602426	-.620179	-.636426
136	-.577097	-.598474	-.618302	-.636563	-.653236	-.668308
138	-.614213	-.634698	-.653531	-.670694	-.686170	-.699947
140	-.651697	-.671177	-.688897	-.704841	-.718995	-.731349
142	-.689607	-.707961	-.724442	-.739037	-.751735	-.762530
144	-.728013	-.745109	-.760216	-.773323	-.784422	-.793511
146	-.767001	-.782699	-.796286	-.807753	-.817099	-.824324
148	-.806681	-.820826	-.832733	-.842397	-.849821	-.855012
150	-.847186	-.859610	-.869662	-.877344	-.882663	-.885631
152	-.888685	-.899202	-.907207	-.912708	-.915719	-.916258
154	-.931392	-.939792	-.945535	-.948635	-.949111	-.946991
156	-.975576	-.981626	-.984865	-.985313	-.983000	-.977960
158	-1.021588	-1.025019	-1.025476	-1.022988	-1.017594	-1.009338
160	-1.069886	-1.070387	-1.067740	-1.061986	-1.053172	-1.041355
162	-1.121086	-1.118288	-1.112156	-1.102743	-1.090109	-1.074321
164	-1.176032	-1.169488	-1.159411	-1.145865	-1.128924	-1.108672
166	-1.235920	-1.225077	-1.210480	-1.192211	-1.170358	-1.145024
168	-1.302522	-1.286667	-1.266812	-1.243057	-1.215513	-1.184301
170	-1.378607	-1.356778	-1.330669	-1.300402	-1.266112	-1.227945
172	-1.468842	-1.439663	-1.405872	-1.367620	-1.325071	-1.278402
174	-1.582024	-1.543338	-1.499624	-1.451073	-1.397887	-1.340284
176	-1.737975	-1.685868	-1.628166	-1.565112	-1.496965	-1.424001
178	-2.000132	-1.925078	-1.843481	-1.755675	-1.662019	-1.562888
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$P_\nu(\cos \theta)$					
ν		.90	.92	.94	.96	.98	1.00
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999479	.999462	.999444	.999426	.999409	.999390	.999390
4	.997917	.997848	.997778	.997708	.997636	.997564	.997564
6	.995315	.995161	.995004	.994845	.994684	.994521	.994521
8	.991676	.991402	.991124	.990842	.990557	.990268	.990268
10	.987003	.986576	.986143	.985703	.985258	.984807	.984807
12	.981301	.980687	.980065	.979434	.978795	.978147	.978147
14	.974575	.973742	.972897	.972041	.971174	.970295	.970295
16	.966831	.965747	.964648	.963534	.962405	.961261	.961261
18	.958078	.956710	.955324	.953920	.952497	.951056	.951056
20	.948322	.946641	.944937	.943211	.941463	.939692	.939692
22	.937575	.935549	.933497	.931419	.929314	.927183	.927183
24	.925844	.923446	.921017	.918557	.916066	.913545	.913545
26	.913143	.910344	.907509	.904639	.901734	.898794	.898794
28	.899483	.896255	.892988	.889681	.886334	.882947	.882947
30	.884876	.881195	.877469	.873698	.869884	.866025	.866025
32	.869338	.865178	.860968	.856710	.852403	.848048	.848048
34	.852882	.848220	.843504	.838734	.833912	.829037	.829037
36	.835524	.830338	.825093	.819791	.814432	.809017	.809017
38	.817280	.811550	.805757	.799902	.793986	.788010	.788010
40	.798169	.791874	.785514	.779088	.772598	.766044	.766044
42	.778207	.771332	.764386	.757373	.750292	.743144	.743144
44	.757414	.749942	.742397	.734780	.727094	.719339	.719339
46	.735809	.727726	.719567	.711335	.703032	.694658	.694658
48	.713413	.704706	.695923	.687064	.678133	.669130	.669130
50	.690247	.680906	.671487	.661993	.652426	.642787	.642787
52	.666332	.656349	.646287	.636151	.625941	.615661	.615661
54	.641691	.631058	.620349	.609565	.598709	.587785	.587785
56	.616347	.605061	.593699	.582264	.570761	.559192	.559192
58	.590324	.578381	.566365	.554280	.542130	.529919	.529919
60	.563646	.551045	.538377	.525643	.512850	.500000	.500000
62	.536337	.523081	.509762	.496385	.482953	.469471	.469471
64	.508423	.494516	.480552	.466536	.452474	.438371	.438371
66	.479931	.465378	.450776	.436132	.421450	.406736	.406736
68	.450885	.435695	.420466	.405204	.389915	.374606	.374606
70	.421314	.405497	.389652	.373787	.357907	.342020	.342020
72	.391243	.374813	.358368	.341915	.325462	.309017	.309017
74	.360702	.343673	.326644	.309623	.292618	.275637	.275637
76	.329716	.312107	.294514	.276947	.259413	.241922	.241922
78	.298316	.280146	.262011	.243921	.225885	.207911	.207911
80	.266528	.247821	.229169	.210583	.192072	.173648	.173648
82	.234382	.215162	.196020	.176968	.158015	.139173	.139173
84	.201905	.182201	.162599	.143112	.123751	.104528	.104528
86	.169128	.148969	.128940	.109054	.089321	.069756	.069756
88	.136079	.115499	.095077	.074828	.054764	.034899	.034899
90	.102787	.081820	.061044	.040473	.020120	.000000	.000000

ν	$P_\nu(\cos \theta)$					
	.90	.92	.94	.96	.98	1.00
θ						
90	.102787	.081820	.061044	.040473	.020120	-.000000
92	.069280	.047965	.026875	.006025	-.014571	-.034899
94	.035588	.013966	-.007394	-.028478	-.049271	-.069756
96	.001740	-.020145	-.041731	-.063001	-.083939	-.104528
98	-.032235	-.054340	-.076102	-.097506	-.118535	-.139173
100	-.066312	-.088585	-.110473	-.131957	-.153021	-.173648
102	-.100460	-.122851	-.144809	-.166317	-.187357	-.207911
104	-.134652	-.157106	-.179078	-.200550	-.221504	-.241922
106	-.168862	-.191321	-.213247	-.234621	-.255423	-.275637
108	-.203062	-.225467	-.247284	-.268494	-.289077	-.309017
110	-.237227	-.259514	-.281157	-.302134	-.322428	-.342020
112	-.271331	-.293435	-.314834	-.335508	-.355438	-.374606
114	-.305351	-.327202	-.348285	-.368580	-.388070	-.406736
116	-.339262	-.360788	-.381480	-.401320	-.420289	-.438371
118	-.373043	-.394167	-.414390	-.433694	-.452060	-.469471
120	-.406673	-.427316	-.446988	-.465671	-.483346	-.500000
122	-.440131	-.460210	-.479246	-.497220	-.514116	-.529919
124	-.473400	-.492829	-.511139	-.528313	-.544335	-.559192
126	-.506464	-.525152	-.542643	-.558921	-.573973	-.587785
128	-.539309	-.557161	-.573736	-.589018	-.602997	-.615661
130	-.571922	-.588839	-.604395	-.618579	-.631379	-.642787
132	-.604297	-.620173	-.634604	-.647578	-.659089	-.669130
134	-.636426	-.651151	-.664344	-.675996	-.686102	-.694658
136	-.668308	-.681767	-.693604	-.703812	-.712391	-.719339
138	-.699947	-.712016	-.722371	-.731009	-.737933	-.743144
140	-.731349	-.741898	-.750639	-.757573	-.762705	-.766044
142	-.762530	-.771419	-.778405	-.783492	-.786689	-.788010
144	-.793511	-.800592	-.805671	-.808758	-.809867	-.809017
146	-.824324	-.829436	-.832446	-.833368	-.832224	-.829037
148	-.855012	-.857981	-.858745	-.857326	-.853749	-.848048
150	-.885631	-.886267	-.884593	-.880638	-.874436	-.866025
152	-.916258	-.914350	-.910026	-.903323	-.894281	-.882947
154	-.946991	-.942306	-.935096	-.925406	-.913287	-.898794
156	-.977960	-.970235	-.959874	-.946930	-.931465	-.913545
158	-1.009338	-.998272	-.984454	-.967951	-.948835	-.927183
160	-1.041355	-1.026597	-1.008970	-.988553	-.965429	-.939692
162	-1.074321	-1.055458	-1.033604	-1.008851	-.981299	-.951056
164	-1.108672	-1.085200	-1.058611	-1.029012	-.996521	-.961261
166	-1.145024	-1.116319	-1.084361	-1.049279	-1.011209	-.970295
168	-1.184301	-1.149551	-1.111406	-1.070016	-1.025541	-.978147
170	-1.227945	-1.186058	-1.140619	-1.091804	-1.039802	-.984807
172	-1.278402	-1.227803	-1.173474	-1.115626	-1.054481	-.990268
174	-1.340284	-1.278496	-1.212766	-1.143348	-1.070508	-.994521
176	-1.424001	-1.346512	-1.264801	-1.179185	-1.089993	-.997564
178	-1.562888	-1.458674	-1.349788	-1.236653	-1.119704	-.999390
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	-1.000000

		$P_\nu(\cos \theta)$					
ν		1.00	1.02	1.04	1.06	1.08	1.10
θ							
0		1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2		.999390	.999372	.999353	.999335	.999315	.999296
4		.997564	.997490	.997416	.997340	.997264	.997186
6		.994521	.994356	.994189	.994019	.993848	.993674
8		.990268	.989974	.989677	.989377	.989072	.988763
10		.984807	.984350	.983887	.983418	.982944	.982463
12		.978147	.977491	.976826	.976153	.975471	.974781
14		.970295	.969405	.968504	.967591	.966666	.965731
16		.961261	.960103	.958930	.957743	.956541	.955324
18		.951056	.949597	.948119	.946624	.945110	.943578
20		.939692	.937900	.936085	.934248	.932390	.930509
22		.927183	.925026	.922843	.920634	.918399	.916138
24		.913545	.910993	.908411	.905799	.903157	.900485
26		.898794	.895819	.892809	.889765	.886687	.883575
28		.882947	.879522	.876057	.872554	.869012	.865432
30		.866025	.862123	.858177	.854189	.850158	.846085
32		.848048	.843645	.839194	.834697	.830153	.825562
34		.829037	.824110	.819132	.814103	.809024	.803894
36		.809017	.803545	.798019	.792438	.786803	.781115
38		.788010	.781975	.775881	.769730	.763521	.757257
40		.766044	.759428	.752750	.746012	.739214	.732357
42		.743144	.735932	.728655	.721316	.713915	.706453
44		.719339	.711517	.703629	.695677	.687662	.679584
46		.694658	.686215	.677706	.669131	.660492	.651791
48		.669130	.660058	.650919	.641714	.632446	.623115
50		.642787	.633079	.623304	.613465	.603563	.593600
52		.615661	.605313	.594899	.584423	.573886	.563291
54		.587785	.576795	.565742	.554629	.543458	.532233
56		.559192	.547561	.535870	.524123	.512324	.500474
58		.529919	.517649	.505325	.492950	.480528	.468063
60		.500000	.487097	.474147	.461152	.448118	.435047
62		.469471	.455945	.442377	.428774	.415140	.401478
64		.438371	.424231	.410059	.395862	.381643	.367408
66		.406736	.391996	.377236	.362460	.347676	.332887
68		.374606	.359283	.343951	.328618	.313288	.297969
70		.342020	.326132	.310250	.294380	.278531	.262707
72		.309017	.292586	.276177	.259798	.243455	.227156
74		.275637	.258688	.241779	.224918	.208112	.191370
76		.241922	.224481	.207101	.189790	.172555	.155405
78		.207911	.190010	.172191	.154463	.136835	.119316
80		.173648	.155319	.137096	.118989	.101007	.083159
82		.139173	.120452	.101863	.083416	.065122	.046991
84		.104528	.085454	.066540	.047797	.029236	.010868
86		.069756	.050370	.031174	.012181	-.006598	-.025152
88		.034899	.015245	-.004185	-.023380	-.042327	-.061015
90		.000000	-.019874	-.039491	-.058836	-.077897	-.096662

ν	$P_\nu(\cos \theta)$					
	1.00	1.02	1.04	1.06	1.08	1.10
θ						
90	-.000000	-.019875	-.039491	-.058836	-.077897	-.096662
92	-.034899	-.054945	-.074695	-.094136	-.113254	-.132037
94	-.069756	-.089920	-.109749	-.129228	-.148344	-.167084
96	-.104528	-.124755	-.144604	-.164061	-.183113	-.201745
98	-.139173	-.159404	-.179213	-.198586	-.217508	-.235965
100	-.173648	-.193822	-.213528	-.232750	-.251475	-.269688
102	-.207911	-.227965	-.247501	-.266505	-.284961	-.302857
104	-.241922	-.261787	-.281085	-.299799	-.317914	-.335418
106	-.275637	-.295245	-.314232	-.332583	-.350282	-.367315
108	-.309017	-.328295	-.346897	-.364807	-.382011	-.398495
110	-.342020	-.360893	-.379033	-.396423	-.413051	-.428902
112	-.374606	-.392997	-.410594	-.427383	-.443350	-.458483
114	-.406736	-.424563	-.441534	-.457636	-.472857	-.487185
116	-.438371	-.455549	-.471808	-.487137	-.501523	-.514954
118	-.469471	-.485913	-.501373	-.515837	-.529296	-.541739
120	-.500000	-.515616	-.530183	-.543690	-.556127	-.567486
122	-.529919	-.544616	-.558195	-.570648	-.581967	-.592145
124	-.559192	-.572873	-.585367	-.596667	-.606766	-.615662
126	-.587785	-.600348	-.611655	-.621699	-.630476	-.637986
128	-.615661	-.627003	-.637016	-.645698	-.653048	-.659065
130	-.642787	-.652799	-.661410	-.668620	-.674431	-.678846
132	-.669130	-.677698	-.684794	-.690418	-.694577	-.697277
134	-.694658	-.701665	-.707126	-.711046	-.713434	-.714302
136	-.719339	-.724662	-.728364	-.730457	-.730952	-.729866
138	-.743144	-.746652	-.748468	-.748604	-.747078	-.743911
140	-.766044	-.767601	-.767392	-.765437	-.761756	-.756376
142	-.788010	-.787472	-.785096	-.780905	-.774928	-.767197
144	-.809017	-.806230	-.801532	-.794955	-.786533	-.776303
146	-.829037	-.823836	-.816655	-.807530	-.796503	-.783618
148	-.848048	-.840256	-.830414	-.818567	-.804764	-.789058
150	-.866025	-.855449	-.842756	-.827998	-.811235	-.792526
152	-.882947	-.869375	-.853620	-.835745	-.815818	-.793909
154	-.898794	-.881989	-.862940	-.841719	-.818403	-.793074
156	-.913545	-.893243	-.870638	-.845813	-.818856	-.789862
158	-.927183	-.903082	-.876622	-.847898	-.817012	-.784072
160	-.939692	-.911439	-.880776	-.847812	-.812663	-.775450
162	-.951056	-.918235	-.882956	-.845346	-.805535	-.763663
164	-.961261	-.923365	-.882969	-.840219	-.795265	-.748261
166	-.970295	-.926690	-.880551	-.832043	-.781338	-.728611
168	-.978147	-.928011	-.875314	-.820246	-.763002	-.703782
170	-.984807	-.927024	-.866664	-.803943	-.739087	-.672324
172	-.990268	-.923226	-.853601	-.781647	-.707623	-.631791
174	-.994521	-.915672	-.834252	-.750559	-.664897	-.577576
176	-.997564	-.902244	-.804392	-.704367	-.602540	-.499282
178	-.999390	-.876169	-.750505	-.622870	-.493741	-.363598
180	-1.000000	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$					
ν	1.10	1.12	1.14	1.16	1.18	1.20	
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	
2	.999296	.999276	.999257	.999236	.999216	.999195	
4	.997186	.997108	.997029	.996948	.996867	.996785	
6	.993674	.993498	.993319	.993139	.992956	.992772	
8	.988763	.988451	.988135	.987815	.987491	.987163	
10	.982463	.981976	.981484	.980985	.980481	.979970	
12	.974781	.974083	.973376	.972661	.971937	.971205	
14	.965731	.964784	.963826	.962856	.961876	.960884	
16	.955324	.954093	.952848	.951588	.950314	.949025	
18	.943578	.942028	.940460	.938875	.937271	.935650	
20	.930509	.928607	.926683	.924738	.922771	.920782	
22	.916138	.913851	.911539	.909201	.906838	.904450	
24	.900485	.897783	.895052	.892291	.889501	.886682	
26	.883575	.880429	.877249	.874036	.870790	.867510	
28	.865432	.861815	.858159	.854467	.850737	.846970	
30	.846085	.841970	.837814	.833616	.829377	.825098	
32	.825562	.820926	.816245	.811519	.806748	.801934	
34	.803894	.798716	.793489	.788213	.782890	.777519	
36	.781115	.775374	.769581	.763737	.757843	.751899	
38	.757257	.750937	.744562	.738134	.731653	.725120	
40	.732357	.725443	.718472	.711445	.704364	.697229	
42	.706453	.698932	.691353	.683717	.676026	.668279	
44	.679584	.671447	.663250	.654996	.646686	.638322	
46	.651791	.643030	.634209	.625332	.616398	.607411	
48	.623115	.613725	.604277	.594773	.585215	.575605	
50	.593600	.583580	.573503	.563373	.553191	.542960	
52	.563291	.552641	.541937	.531184	.520382	.509536	
54	.532233	.520957	.509632	.498262	.486848	.475395	
56	.500474	.488579	.476640	.464662	.452647	.440600	
58	.468063	.455557	.443016	.430443	.417840	.405213	
60	.435047	.421945	.408815	.395662	.382489	.369301	
62	.401478	.387795	.374094	.360380	.346657	.332930	
64	.367408	.353162	.338909	.324656	.310407	.296167	
66	.332887	.318100	.303320	.288553	.273805	.259080	
68	.297969	.282666	.267385	.252133	.236915	.221738	
70	.262707	.246916	.231164	.215459	.199806	.184211	
72	.227156	.210908	.194719	.178594	.162542	.146570	
74	.191370	.174700	.158108	.141603	.125192	.108884	
76	.155405	.138349	.121395	.104551	.087825	.071225	
78	.119316	.101915	.084640	.067501	.050507	.033664	
80	.083159	.065456	.047907	.030521	.013307	-.003725	
82	.046991	.029033	.011257	-.006325	-.023706	-.040875	
84	.010868	-.007295	-.025245	-.042971	-.060463	-.077711	
86	-.025152	-.043470	-.061540	-.079353	-.096897	-.114163	
88	-.061015	-.079431	-.097564	-.115404	-.132939	-.150159	
90	-.096662	-.115118	-.133254	-.151059	-.168521	-.185629	

ν	$P_\nu(\cos \theta)$					
	1.10	1.12	1.14	1.16	1.18	1.20
θ						
90	-.096662	-.115118	-.133255	-.151059	-.168521	-.185629
92	-.132037	-.150473	-.168549	-.186253	-.203574	-.220501
94	-.167084	-.185435	-.203385	-.220921	-.238032	-.254707
96	-.201745	-.219945	-.237700	-.254998	-.271827	-.288176
98	-.235965	-.253945	-.271434	-.288420	-.304892	-.320838
100	-.269688	-.287375	-.304525	-.321125	-.337163	-.352628
102	-.302857	-.320178	-.336913	-.353048	-.368572	-.383476
104	-.335418	-.352296	-.368536	-.384127	-.399056	-.413315
106	-.367315	-.383671	-.399336	-.414300	-.428551	-.442080
108	-.398495	-.414246	-.429253	-.443505	-.456992	-.469706
110	-.428902	-.443964	-.458228	-.471682	-.484318	-.496127
112	-.458483	-.472771	-.486203	-.498770	-.510465	-.521280
114	-.487185	-.500608	-.513119	-.524709	-.535372	-.545102
116	-.514954	-.527423	-.538921	-.549441	-.558979	-.567530
118	-.541739	-.553159	-.563549	-.572906	-.581224	-.588502
120	-.567486	-.577762	-.586949	-.595044	-.602047	-.607957
122	-.592145	-.601177	-.609062	-.615799	-.621388	-.625832
124	-.615662	-.623351	-.629833	-.635111	-.639186	-.642066
126	-.637986	-.644228	-.649205	-.652920	-.655382	-.656597
128	-.659065	-.663754	-.667119	-.669169	-.669913	-.669362
130	-.678846	-.681873	-.683519	-.683796	-.682717	-.680298
132	-.697277	-.698528	-.698344	-.696739	-.693730	-.689338
134	-.714302	-.713663	-.711534	-.707934	-.702886	-.696413
136	-.729866	-.727216	-.723025	-.717315	-.710115	-.701453
138	-.743911	-.739126	-.732750	-.724811	-.715343	-.704380
140	-.756376	-.749326	-.740638	-.730347	-.718491	-.705112
142	-.767197	-.757745	-.746613	-.733841	-.719473	-.703559
144	-.776303	-.764307	-.750591	-.735202	-.718193	-.699620
146	-.783618	-.768926	-.752478	-.734330	-.714544	-.693180
148	-.789058	-.771506	-.752169	-.731111	-.708400	-.684108
150	-.792526	-.771938	-.749541	-.725409	-.699619	-.672251
152	-.793909	-.770093	-.744451	-.717067	-.688027	-.657423
154	-.793074	-.765819	-.736727	-.705894	-.673418	-.639400
156	-.789862	-.758928	-.726156	-.691655	-.655532	-.617904
158	-.784072	-.749187	-.712474	-.674053	-.634046	-.592581
160	-.775450	-.736298	-.695340	-.652707	-.608538	-.562975
162	-.763663	-.719870	-.674303	-.627112	-.578451	-.528477
164	-.748261	-.699368	-.648751	-.596578	-.543021	-.488254
166	-.728611	-.674044	-.617822	-.560133	-.501170	-.441128
168	-.703782	-.642792	-.580240	-.516338	-.451303	-.385351
170	-.672324	-.603887	-.534014	-.462944	-.390921	-.318188
172	-.631791	-.554421	-.475784	-.396153	-.315805	-.235013
174	-.577576	-.488908	-.399209	-.308794	-.217982	-.127088
176	-.499282	-.394967	-.289972	-.184673	-.079446	.025335
178	-.363598	-.232919	-.102187	.028121	.157533	.285579
180	∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$				
ν	1.20	1.22	1.24	1.26	1.28	1.30
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999195	.999175	.999154	.999132	.999111	.999089
4	.996785	.996702	.996617	.996532	.996446	.996359
6	.992772	.992585	.992396	.992204	.992011	.991815
8	.987163	.986832	.986497	.986158	.985815	.985468
10	.979970	.979454	.978932	.978404	.977870	.977330
12	.971205	.970464	.969716	.968958	.968193	.967419
14	.960884	.959880	.958866	.957840	.956804	.955756
16	.949025	.947721	.946404	.945072	.943726	.942365
18	.935650	.934010	.932353	.930678	.928986	.927276
20	.920782	.918772	.916741	.914688	.912615	.910520
22	.904450	.902036	.899598	.897134	.894646	.892133
24	.886682	.883834	.880956	.878051	.875116	.872153
26	.867510	.864198	.860853	.857476	.854066	.850625
28	.846970	.843167	.839327	.835451	.831539	.827592
30	.825098	.820778	.816419	.812020	.807582	.803106
32	.801934	.797076	.792174	.787230	.782244	.777217
34	.777519	.772102	.766640	.761131	.755578	.749981
36	.751899	.745906	.739864	.733775	.727639	.721456
38	.725120	.718535	.711901	.705217	.698484	.691703
40	.697229	.690042	.682803	.675513	.668174	.660787
42	.668279	.660480	.652628	.644725	.636773	.628773
44	.638322	.629904	.621434	.612914	.604345	.595729
46	.607411	.598372	.589283	.580144	.570959	.561728
48	.575605	.565944	.556236	.546481	.536683	.526842
50	.542960	.532682	.522359	.511994	.501589	.491146
52	.509536	.498647	.487718	.476752	.465751	.454717
54	.475395	.463905	.452381	.440826	.429243	.417635
56	.440600	.428522	.416418	.404291	.392143	.379980
58	.405213	.392565	.379899	.367219	.354529	.341832
60	.369301	.356102	.342896	.329687	.316479	.303277
62	.332930	.319204	.305483	.291772	.278075	.264397
64	.296167	.281941	.267734	.253552	.239398	.225278
66	.259080	.244385	.229724	.215104	.200530	.186006
68	.221738	.206608	.191529	.176509	.161554	.146668
70	.184211	.168683	.153226	.137847	.122553	.107350
72	.146570	.130684	.114891	.099198	.083612	.068140
74	.108884	.092684	.076601	.060642	.044815	.029125
76	.071225	.054759	.038436	.022262	.006245	-.009605
78	.033664	.016983	.000471	-.015862	-.032011	-.047966
80	-.003725	-.020569	-.037213	-.053650	-.069872	-.085869
82	-.040875	-.057823	-.074541	-.091021	-.107253	-.123228
84	-.077711	-.094705	-.111436	-.127894	-.144070	-.159956
86	-.114163	-.131140	-.147818	-.164188	-.180241	-.195968
88	-.150159	-.167053	-.183612	-.199825	-.215684	-.231179
90	-.185629	-.202372	-.218742	-.234726	-.250318	-.265505

		$P_\nu(\cos \theta)$				
ν	1.20	1.22	1.24	1.26	1.28	1.30
θ						
90	-.185629	-.202373	-.218742	-.234727	-.250317	-.265506
92	-.220501	-.237024	-.253131	-.268813	-.284061	-.298865
94	-.254707	-.270935	-.286705	-.302008	-.316835	-.331175
96	-.288176	-.304033	-.319390	-.334235	-.348561	-.362357
98	-.320838	-.336248	-.351112	-.365419	-.379161	-.392330
100	-.352628	-.367510	-.381798	-.395485	-.408561	-.421019
102	-.383476	-.397748	-.411379	-.424361	-.436686	-.448346
104	-.413315	-.426893	-.439782	-.451974	-.463461	-.474237
106	-.442080	-.454879	-.466939	-.478253	-.488815	-.498620
108	-.469706	-.481638	-.492781	-.503130	-.512678	-.521423
110	-.496127	-.507103	-.517241	-.526534	-.534980	-.542575
112	-.521280	-.531211	-.540252	-.548400	-.555652	-.562009
114	-.545102	-.553895	-.561748	-.568660	-.574629	-.579657
116	-.567530	-.575093	-.581666	-.587248	-.591843	-.595453
118	-.588502	-.594741	-.599940	-.604102	-.607231	-.609333
120	-.607957	-.612776	-.616507	-.619155	-.620728	-.621232
122	-.625832	-.629135	-.631304	-.632346	-.632270	-.631087
124	-.642066	-.643757	-.644267	-.643609	-.641793	-.638836
126	-.656597	-.656577	-.655333	-.652880	-.649235	-.644414
128	-.669362	-.667532	-.664437	-.660096	-.654529	-.647758
130	-.680298	-.676556	-.671513	-.665189	-.657610	-.648801
132	-.689338	-.683584	-.676493	-.668092	-.658409	-.647477
134	-.696413	-.688543	-.679306	-.668732	-.656856	-.643714
136	-.701453	-.691362	-.679876	-.667034	-.652873	-.637437
138	-.704380	-.691961	-.678125	-.662916	-.646379	-.628563
140	-.705112	-.690254	-.673963	-.656290	-.637285	-.617003
142	-.703559	-.686149	-.667295	-.647056	-.625489	-.602656
144	-.699620	-.679539	-.658012	-.635103	-.610879	-.585406
146	-.693180	-.670306	-.645990	-.620304	-.593322	-.565122
148	-.684108	-.658310	-.631083	-.602508	-.572667	-.541645
150	-.672251	-.643390	-.613122	-.581537	-.548727	-.514787
152	-.657423	-.625348	-.591899	-.557177	-.521282	-.484319
154	-.639400	-.603946	-.567163	-.529161	-.490054	-.449956
156	-.617904	-.578885	-.538596	-.497159	-.454698	-.411338
158	-.592581	-.549787	-.505797	-.460746	-.414769	-.368005
160	-.562975	-.516160	-.468242	-.419367	-.369686	-.319349
162	-.528477	-.477349	-.425230	-.372282	-.318671	-.264561
164	-.488254	-.432454	-.375801	-.318473	-.260651	-.202517
166	-.441128	-.380202	-.318589	-.256490	-.194101	-.131621
168	-.385351	-.318700	-.251570	-.184181	-.116749	-.049494
170	-.318188	-.244988	-.171567	-.098168	-.025032	.047601
172	-.235013	-.154055	-.073204	.007267	.087091	.166001
174	-.127088	-.036427	.053687	.142949	.231053	.317702
176	.025335	.129303	.232092	.333345	.432710	.529846
178	.285579	.411799	.535740	.656960	.775031	.889536
180	∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$				
ν	1.30	1.32	1.34	1.36	1.38	1.40
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.999089	.999067	.999045	.999022	.998999	.998976
4	.996359	.996271	.996182	.996092	.996001	.995909
6	.991815	.991618	.991418	.991216	.991011	.990805
8	.985468	.985117	.984763	.984405	.984043	.983677
10	.977330	.976784	.976233	.975675	.975112	.974543
12	.967419	.966637	.965846	.965047	.964240	.963424
14	.955756	.954697	.953626	.952545	.951453	.950349
16	.942365	.940991	.939602	.938199	.936781	.935350
18	.927276	.925548	.923803	.922041	.920261	.918464
20	.910520	.908404	.906267	.904109	.901931	.899731
22	.892133	.889595	.887032	.884446	.881834	.879199
24	.872153	.869162	.866143	.863096	.860021	.856918
26	.850625	.847151	.843646	.840110	.836542	.832944
28	.827592	.823610	.819593	.815541	.811454	.807334
30	.803106	.798590	.794037	.789446	.784818	.780153
32	.777217	.772148	.767038	.761887	.756697	.751468
34	.749981	.744339	.738655	.732928	.727160	.721350
36	.721456	.715228	.708954	.702637	.696276	.689873
38	.691703	.684876	.678003	.671084	.664122	.657116
40	.660787	.653352	.645871	.638344	.630774	.623160
42	.628773	.620725	.612632	.604494	.596312	.588089
44	.595729	.587067	.578361	.569612	.560821	.551991
46	.561728	.552454	.543137	.533781	.524386	.514955
48	.526842	.516961	.507041	.497086	.487096	.477075
50	.491146	.480667	.470156	.459613	.449042	.438444
52	.454717	.443365	.432565	.421451	.410315	.399160
54	.417635	.406005	.394356	.382690	.371011	.359322
56	.379980	.367803	.355616	.343422	.331225	.319029
58	.341832	.329133	.316435	.303741	.291056	.278383
60	.303277	.290084	.276904	.263742	.250602	.237487
62	.264397	.250742	.237115	.223521	.209962	.196445
64	.225278	.211198	.197161	.183172	.169238	.155361
66	.186006	.171539	.157134	.142796	.128530	.114341
68	.146668	.131858	.117129	.102488	.087939	.073489
70	.107350	.092243	.077240	.062346	.047567	.032910
72	.068140	.052787	.037562	.022470	.007517	-.007289
74	.029125	.013581	-.001810	-.017044	-.032111	-.047006
76	-.009605	-.025285	-.040785	-.056098	-.071217	-.086135
78	-.047966	-.063721	-.079266	-.094595	-.109700	-.124575
80	-.085869	-.101635	-.117161	-.132439	-.147462	-.162222
82	-.123228	-.138939	-.154377	-.169534	-.184403	-.198976
84	-.159956	-.175543	-.190823	-.205787	-.220428	-.234738
86	-.195968	-.211359	-.226407	-.241103	-.255440	-.269409
88	-.231179	-.246301	-.261041	-.275392	-.289346	-.302894
90	-.265505	-.280281	-.294636	-.308563	-.322053	-.335100

		$P_\nu(\cos \theta)$					
ν		1.30	1.32	1.34	1.36	1.38	1.40
θ							
90		-.265506	-.280281	-.294637	-.308563	-.322054	-.335100
92		-.298865	-.313216	-.327106	-.340528	-.353473	-.365934
94		-.331175	-.345021	-.358365	-.371198	-.383515	-.395307
96		-.362357	-.375615	-.388329	-.400491	-.412093	-.423131
98		-.392330	-.404918	-.416918	-.428322	-.439125	-.449322
100		-.421019	-.432851	-.444050	-.454611	-.464529	-.473798
102		-.448346	-.459335	-.469648	-.479279	-.488224	-.496480
104		-.474237	-.484297	-.493636	-.502250	-.510136	-.517291
106		-.498620	-.507663	-.515940	-.523449	-.530188	-.536157
108		-.521423	-.529360	-.536488	-.542805	-.548311	-.553007
110		-.542575	-.549318	-.555208	-.560246	-.564434	-.567772
112		-.562009	-.567469	-.572034	-.575706	-.578490	-.580388
114		-.579657	-.583745	-.586898	-.589119	-.590414	-.590790
116		-.595453	-.598081	-.599735	-.600419	-.600144	-.598917
118		-.609333	-.610413	-.610481	-.609546	-.607619	-.604712
120		-.621232	-.620677	-.619075	-.616438	-.612780	-.608116
122		-.631087	-.628811	-.625455	-.621035	-.615569	-.609075
124		-.638836	-.634752	-.629560	-.623279	-.615929	-.607534
126		-.644414	-.638438	-.631329	-.623109	-.613804	-.603440
128		-.647758	-.639806	-.630700	-.620467	-.609136	-.596739
130		-.648801	-.638792	-.627611	-.615292	-.601868	-.587375
132		-.647477	-.635328	-.621997	-.607521	-.591940	-.575293
134		-.643714	-.629345	-.613789	-.597088	-.579287	-.560432
136		-.637437	-.620769	-.602914	-.583923	-.563843	-.542728
138		-.628563	-.609517	-.589293	-.567946	-.545532	-.522108
140		-.617003	-.595501	-.572837	-.549073	-.524270	-.498493
142		-.602656	-.578620	-.553447	-.527204	-.499962	-.471790
144		-.585406	-.558758	-.531006	-.502226	-.472495	-.441890
146		-.565122	-.535781	-.505382	-.474006	-.441738	-.408664
148		-.541645	-.509530	-.476412	-.442381	-.407530	-.371953
150		-.514787	-.479813	-.443903	-.407158	-.369677	-.331564
152		-.484319	-.446395	-.407617	-.368094	-.327936	-.287254
154		-.449956	-.408983	-.367254	-.324887	-.282001	-.238718
156		-.411338	-.367208	-.322436	-.277151	-.231482	-.185560
158		-.368005	-.320593	-.272673	-.224385	-.175870	-.127268
160		-.319349	-.268510	-.217320	-.165930	-.114493	-.063159
162		-.264561	-.210117	-.155507	-.100892	-.046439	.007692
164		-.202517	-.144251	-.086031	-.028036	.029555	.086573
166		-.131621	-.069246	-.007172	.054407	.115305	.175332
168		-.049494	.017370	.083632	.149083	.213515	.276731
170		.047601	.119496	.190421	.260149	.328457	.395130
172		.166001	.243737	.320044	.394674	.467384	.537942
174		.317702	.402606	.485480	.566050	.644051	.719228
176		.529846	.624419	.716109	.804606	.889612	.970846
178		.889536	1.000074	1.106260	1.207726	1.304125	1.395129
180		∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$				
ν	1.40	1.42	1.44	1.46	1.48	1.50
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.998976	.998953	.998930	.998906	.998882	.998858
4	.995909	.995816	.995722	.995627	.995531	.995435
6	.990805	.990596	.990386	.990173	.989958	.989740
8	.983677	.983307	.982934	.982557	.982176	.981791
10	.974543	.973968	.973387	.972800	.972207	.971609
12	.963424	.962601	.961768	.960928	.960079	.959223
14	.950349	.949235	.948110	.946973	.945826	.944667
16	.935350	.933905	.932446	.930972	.929485	.927984
18	.918464	.916649	.914817	.912968	.911102	.909219
20	.899731	.897511	.895271	.893010	.890728	.888426
22	.879199	.876540	.873857	.871149	.868419	.865664
24	.856918	.853788	.850631	.847447	.844235	.840997
26	.832944	.829314	.825654	.821964	.818244	.814494
28	.807334	.803180	.798992	.794771	.790517	.786231
30	.780153	.775451	.770714	.765940	.761131	.756287
32	.751468	.746200	.740893	.735548	.730166	.724747
34	.721350	.715499	.709608	.703678	.697709	.691701
36	.689873	.683428	.676941	.670415	.663848	.657243
38	.657116	.650068	.642978	.635848	.628678	.621469
40	.623160	.615504	.607807	.600071	.592295	.584482
42	.588089	.579825	.571521	.563180	.554802	.546388
44	.551991	.543122	.534216	.525275	.516300	.507294
46	.514955	.505489	.495990	.486459	.476899	.467312
48	.477075	.467023	.456943	.446837	.436708	.426556
50	.438444	.427823	.417179	.406517	.395837	.385143
52	.399160	.387989	.376804	.365608	.354403	.343193
54	.359322	.347625	.335924	.324222	.312521	.300824
56	.319029	.306835	.294648	.282471	.270307	.258160
58	.278383	.265725	.253087	.240471	.227882	.215323
60	.237487	.224402	.211351	.198337	.185365	.172438
62	.196445	.182974	.169552	.156184	.142875	.129629
64	.155361	.141548	.127803	.114130	.100534	.087021
66	.114341	.100235	.086216	.072291	.058463	.044738
68	.073489	.059142	.044905	.030783	.016781	.002904
70	.032910	.018380	.003982	-.010276	-.024391	-.038356
72	-.007289	-.021944	-.036440	-.050773	-.064935	-.078921
74	-.047006	-.061722	-.076252	-.090592	-.104733	-.118670
76	-.086135	-.100846	-.115343	-.129619	-.143669	-.157484
78	-.124575	-.139212	-.153604	-.167744	-.181627	-.195245
80	-.162222	-.176713	-.190926	-.204856	-.218496	-.231839
82	-.198976	-.213246	-.227205	-.240846	-.254164	-.267151
84	-.234738	-.248709	-.262335	-.275609	-.288524	-.301074
86	-.269409	-.283004	-.296216	-.309041	-.321470	-.333499
88	-.302894	-.316031	-.328749	-.341040	-.352900	-.364323
90	-.335100	-.347696	-.359835	-.371510	-.382715	-.393446

$P_\nu(\cos \theta)$						
ν	1.50	1.52	1.54	1.56	1.58	1.60
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.998858	.998833	.998808	.998783	.998758	.998733
4	.995435	.995337	.995238	.995138	.995038	.994936
6	.989741	.989521	.989300	.989076	.988850	.988622
8	.981791	.981403	.981010	.980614	.980214	.979811
10	.971609	.971005	.970395	.969779	.969157	.968530
12	.959223	.958358	.957485	.956603	.955713	.954816
14	.944667	.943498	.942318	.941127	.939925	.938712
16	.927984	.926469	.924940	.923397	.921841	.920270
18	.909219	.907319	.905402	.903468	.901517	.899549
20	.888427	.886105	.883762	.881400	.879018	.876616
22	.865664	.862886	.860085	.857261	.854413	.851543
24	.840997	.837732	.834441	.831123	.827780	.824410
26	.814494	.810715	.806906	.803067	.799201	.795305
28	.786231	.781912	.777561	.773179	.768765	.764320
30	.756287	.751408	.746496	.741549	.736569	.731556
32	.724747	.719292	.713801	.708274	.702712	.697116
34	.691701	.685656	.679574	.673456	.667301	.661112
36	.657243	.650599	.643918	.637201	.630447	.623659
38	.621469	.614223	.606939	.599620	.592266	.584877
40	.584482	.576633	.568748	.560829	.552877	.544892
42	.546388	.537940	.529459	.520946	.512403	.503832
44	.507294	.498256	.489189	.480095	.470974	.461829
46	.467312	.457698	.448060	.438400	.428719	.419019
48	.426556	.416385	.406195	.395990	.385771	.375540
50	.385144	.374437	.363720	.352996	.342267	.331534
52	.343193	.331979	.320764	.309552	.298343	.287143
54	.300824	.289135	.277456	.265790	.254141	.242510
56	.258160	.246032	.233927	.221849	.209799	.197782
58	.215324	.202798	.190310	.177863	.165460	.153105
60	.172438	.159561	.146738	.133971	.121266	.108625
62	.129629	.116450	.103342	.090310	.077357	.064488
64	.087021	.073594	.060257	.047016	.033875	.020838
66	.044738	.031120	.017615	.004227	-.009038	-.022178
68	.002904	-.010841	-.024452	-.037922	-.051246	-.064420
70	-.038355	-.052165	-.065814	-.079298	-.092610	-.105745
72	-.078921	-.092725	-.106343	-.119767	-.132994	-.146017
74	-.118670	-.132398	-.145910	-.159201	-.172266	-.185098
76	-.157484	-.171060	-.184392	-.197472	-.210295	-.222857
78	-.195245	-.208593	-.221665	-.234454	-.246955	-.259164
80	-.231838	-.244878	-.257610	-.270026	-.282123	-.293893
82	-.267151	-.279802	-.292110	-.304070	-.315677	-.326925
84	-.301073	-.313252	-.325053	-.336472	-.347504	-.358143
86	-.333498	-.345120	-.356329	-.367121	-.377491	-.387434
88	-.364323	-.375302	-.385833	-.395912	-.405533	-.414693
90	-.393446	-.403697	-.413464	-.422742	-.431528	-.439818

		$P_\nu(\cos \theta)$					
ν		1.50	1.52	1.54	1.56	1.58	1.60
θ							
90		-.393446	-.403697	-.413464	-.422742	-.431528	-.439818
92		-.420772	-.430209	-.439124	-.447516	-.455381	-.462715
94		-.446208	-.454743	-.462722	-.470142	-.476999	-.483293
96		-.469665	-.477214	-.484170	-.490532	-.496299	-.501470
98		-.491059	-.497536	-.503385	-.508607	-.513201	-.517167
100		-.510309	-.515630	-.520291	-.524290	-.527631	-.530314
102		-.527339	-.531423	-.534813	-.537512	-.539521	-.540846
104		-.542078	-.544844	-.546886	-.548207	-.548812	-.548706
106		-.554459	-.555830	-.556447	-.556317	-.555446	-.553842
108		-.564418	-.564318	-.563439	-.561788	-.559374	-.556208
110		-.571898	-.570256	-.567810	-.564573	-.560554	-.555767
112		-.576845	-.573591	-.569515	-.564629	-.558948	-.552485
114		-.579207	-.574278	-.568510	-.561920	-.554523	-.546337
116		-.578939	-.572275	-.564760	-.556412	-.547253	-.537303
118		-.576000	-.567544	-.558230	-.548080	-.537118	-.525366
120		-.570349	-.560051	-.548893	-.536901	-.524100	-.510519
122		-.561950	-.549765	-.536724	-.522854	-.508188	-.492756
124		-.550771	-.536659	-.521700	-.505926	-.489373	-.472076
126		-.536779	-.520706	-.503802	-.486104	-.467651	-.448482
128		-.519944	-.501882	-.483013	-.463377	-.443018	-.421980
130		-.500234	-.480163	-.459315	-.437735	-.415473	-.392576
132		-.477619	-.455524	-.432690	-.409170	-.385015	-.360279
134		-.452065	-.427938	-.403120	-.377669	-.351641	-.325094
136		-.423533	-.397374	-.370582	-.343219	-.315346	-.287027
138		-.391979	-.363796	-.335047	-.305798	-.276119	-.246077
140		-.357351	-.327158	-.296477	-.265381	-.233942	-.202235
142		-.319583	-.287403	-.254825	-.221926	-.188786	-.155482
144		-.278595	-.244459	-.210026	-.175380	-.140605	-.105785
146		-.234283	-.198230	-.161994	-.125667	-.089335	-.053090
148		-.186516	-.148593	-.110617	-.072682	-.034885	.002681
150		-.135125	-.095388	-.055741	-.016286	.022875	.061647
152		-.079890	-.038403	.002832	.043709	.084124	.123971
154		-.020525	.022638	.065372	.107563	.149102	.189880
156		.043349	.088107	.132236	.175619	.218141	.259688
158		.112237	.158497	.203908	.248346	.291692	.333830
160		.186819	.234480	.281046	.326388	.370382	.412909
162		.268031	.316982	.364562	.410636	.455080	.497769
164		.357190	.407308	.455743	.502359	.547025	.589617
166		.456200	.507350	.556463	.603400	.648028	.690220
168		.567928	.619960	.669548	.716549	.760827	.802259
170		.696917	.749664	.799488	.846240	.889788	.930007
172		.850917	.904188	.953951	1.000059	1.042378	1.080788
174		1.044667	1.098230	1.147540	1.192450	1.232830	1.268567
176		1.311607	1.365154	1.413408	1.456227	1.493488	1.525088
178		1.759267	1.812260	1.858206	1.896969	1.928442	1.952544
180		∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$					
ν		1.60	1.62	1.64	1.66	1.68	1.70
θ							
0		1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2		.998733	.998707	.998681	.998655	.998629	.998602
4		.994936	.994834	.994730	.994625	.994520	.994414
6		.988622	.988392	.988160	.987925	.987689	.987450
8		.979811	.979403	.978992	.978577	.978158	.977735
10		.968530	.967896	.967257	.966612	.965962	.965305
12		.954816	.953909	.952995	.952073	.951143	.950204
14		.938712	.937488	.936254	.935008	.933752	.932486
16		.920270	.918686	.917088	.915477	.913852	.912214
18		.899549	.897565	.895564	.893546	.891512	.889461
20		.876616	.874194	.871752	.869291	.866810	.864310
22		.851543	.848649	.845733	.842794	.839833	.836849
24		.824410	.821014	.817593	.814147	.810675	.807178
26		.795305	.791380	.787428	.783448	.779440	.775404
28		.764320	.759844	.755338	.750802	.746236	.741641
30		.731556	.726510	.721432	.716322	.711181	.706009
32		.697116	.691486	.685823	.680126	.674398	.668637
34		.661112	.654888	.648630	.642339	.636016	.629661
36		.623659	.616836	.609980	.603092	.596171	.589219
38		.584877	.577456	.570002	.562518	.555003	.547458
40		.544892	.536877	.528832	.520758	.512657	.504529
42		.503832	.495233	.486607	.477957	.469283	.460587
44		.461829	.452661	.443471	.434262	.425034	.415790
46		.419019	.409302	.399570	.389824	.380067	.370300
48		.375540	.365300	.355052	.344799	.334542	.324283
50		.331534	.320801	.310069	.299341	.288619	.277905
52		.287143	.275951	.264772	.253608	.242462	.231336
54		.242510	.230902	.219318	.207761	.196236	.184743
56		.197782	.185801	.173859	.161959	.150104	.138298
58		.153105	.140802	.128553	.116362	.104233	.092170
60		.108625	.096053	.083554	.071131	.058787	.046527
62		.064488	.051706	.039017	.026423	.013929	.001538
64		.020838	.007910	-.004904	-.017602	-.030179	-.042631
66		-.022178	-.035186	-.048059	-.060791	-.073379	-.085818
68		-.064420	-.077438	-.090296	-.102989	-.115513	-.127863
70		-.105745	-.118700	-.131469	-.144046	-.156428	-.168610
72		-.146017	-.158831	-.171432	-.183814	-.195974	-.207905
74		-.185098	-.197693	-.210046	-.222151	-.234004	-.245600
76		-.222857	-.235151	-.247172	-.258917	-.270379	-.281554
78		-.259164	-.271073	-.282679	-.293977	-.304962	-.315629
80		-.293893	-.305334	-.316438	-.327203	-.337622	-.347693
82		-.326925	-.337810	-.348326	-.358470	-.368236	-.377623
84		-.358143	-.368385	-.378225	-.387660	-.396686	-.405299
86		-.387434	-.396946	-.406023	-.414662	-.422859	-.430612
88		-.414693	-.423388	-.431615	-.439371	-.446653	-.453459
90		-.439818	-.447610	-.454900	-.461687	-.467969	-.473744

$P_\nu(\cos \theta)$

ν	1.60	1.62	1.64	1.66	1.68	1.70
θ						
90	-.439818	-.447610	-.454900	-.461687	-.467969	-.473744
92	-.462715	-.469518	-.475786	-.481520	-.486718	-.491381
94	-.483293	-.489023	-.494187	-.498786	-.502820	-.506289
96	-.501470	-.506044	-.510023	-.513408	-.516199	-.518400
98	-.517167	-.520507	-.523222	-.525316	-.526791	-.527651
100	-.530314	-.532342	-.533720	-.534451	-.534539	-.533991
102	-.540846	-.541490	-.541459	-.540758	-.539394	-.537375
104	-.548706	-.547896	-.546389	-.544193	-.541316	-.537768
106	-.553842	-.551513	-.548468	-.544718	-.540273	-.535144
108	-.556208	-.552300	-.547661	-.542303	-.536241	-.529487
110	-.555767	-.550224	-.543939	-.536927	-.529205	-.520788
112	-.552485	-.545258	-.537282	-.528576	-.519158	-.509047
114	-.546337	-.537382	-.527677	-.517243	-.506100	-.494272
116	-.537303	-.526583	-.515117	-.502928	-.490041	-.476481
118	-.525366	-.512852	-.499600	-.485638	-.470994	-.455697
120	-.510519	-.496187	-.481133	-.465388	-.448984	-.431952
122	-.492756	-.476591	-.459726	-.442197	-.424037	-.405283
124	-.472076	-.454071	-.435396	-.416088	-.396188	-.375735
126	-.448482	-.428638	-.408161	-.387093	-.365477	-.343356
128	-.421980	-.400307	-.378046	-.355244	-.331946	-.308201
130	-.392576	-.369094	-.345077	-.320576	-.295642	-.270327
132	-.360279	-.335015	-.309280	-.283127	-.256612	-.229791
134	-.325094	-.298088	-.270682	-.242934	-.214906	-.186656
136	-.287027	-.258327	-.229307	-.200034	-.170569	-.140979
138	-.246077	-.215740	-.185177	-.154457	-.123647	-.092816
140	-.202235	-.170331	-.138305	-.106230	-.074178	-.042220
142	-.155482	-.122092	-.088696	-.055369	-.022189	.010768
144	-.105785	-.071002	-.036339	-.001878	.032300	.066118
146	-.053090	-.017018	.018792	.054258	.089293	.123816
148	.002681	.039925	.076754	.113079	.148813	.183870
150	.061647	.099932	.137633	.174658	.210917	.246321
152	.123971	.163150	.201562	.239111	.275703	.311249
154	.189880	.229792	.268736	.306612	.343327	.378788
156	.259688	.300153	.339431	.377419	.414023	.449149
158	.333830	.374648	.414038	.451898	.488131	.522644
160	.412909	.453854	.493109	.530570	.566141	.599729
162	.497769	.538588	.577427	.614183	.648761	.681070
164	.589617	.630018	.668118	.703816	.737018	.767639
166	.690220	.729861	.766842	.801064	.832439	.860886
168	.802259	.840727	.876128	.908368	.937362	.963038
170	.930007	.966785	1.000023	1.029633	1.055540	1.077682
172	1.080788	1.115184	1.145472	1.171576	1.193433	1.210995
174	1.268567	1.299563	1.325738	1.347031	1.363394	1.374800
176	1.525088	1.550946	1.571000	1.585211	1.593559	1.596046
178	1.952544	1.969222	1.978450	1.980230	1.974592	1.961591
180	∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$					
ν		1.70	1.72	1.74	1.76	1.78	1.80
θ							
0		1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2		.998602	.998575	.998548	.998520	.998493	.998465
4		.994414	.994306	.994198	.994088	.993978	.993867
6		.987450	.987209	.986966	.986720	.986473	.986224
8		.977735	.977309	.976879	.976445	.976007	.975566
10		.965305	.964643	.963975	.963301	.962622	.961936
12		.950204	.949257	.948302	.947339	.946368	.945389
14		.932486	.931208	.929920	.928621	.927311	.925991
16		.912214	.910562	.908896	.907217	.905525	.903819
18		.889461	.887394	.885310	.883211	.881095	.878962
20		.864310	.861790	.859251	.856693	.854116	.851519
22		.836849	.833843	.830815	.827765	.824694	.821600
24		.807178	.803657	.800110	.796540	.792945	.789325
26		.775404	.771341	.767252	.763135	.758992	.754823
28		.741641	.737016	.732362	.727680	.722970	.718232
30		.706009	.700806	.695573	.690311	.685019	.679698
32		.668637	.662846	.657023	.651171	.645288	.639377
34		.629661	.623274	.616857	.610410	.603933	.597429
36		.589219	.582237	.575226	.568185	.561117	.554022
38		.547458	.539886	.532286	.524659	.517008	.509331
40		.504529	.496376	.488199	.480000	.471778	.463536
42		.460587	.451870	.443133	.434378	.425607	.416820
44		.415790	.406530	.397257	.387971	.378676	.369371
46		.370300	.360525	.350744	.340958	.331169	.321380
48		.324283	.314025	.303770	.293519	.283275	.273040
50		.277905	.267203	.256513	.245839	.235182	.224546
52		.231336	.220232	.209153	.198102	.187082	.176094
54		.184743	.173287	.161869	.150494	.139163	.127879
56		.138298	.126543	.114842	.103199	.091616	.080097
58		.092170	.080174	.068250	.056401	.044631	.032942
60		.046527	.034354	.022272	.010284	-.001605	-.013395
62		.001538	-.010744	-.022916	-.034972	-.046911	-.058726
64		-.042631	-.054953	-.067141	-.079192	-.091102	-.102866
66		-.085818	-.098104	-.110233	-.122201	-.134002	-.145635
68		-.127863	-.140035	-.152025	-.163828	-.175440	-.186857
70		-.168610	-.180587	-.192355	-.203909	-.215246	-.226362
72		-.207905	-.219603	-.231065	-.242286	-.253261	-.263987
74		-.245600	-.256935	-.268004	-.278804	-.289329	-.299576
76		-.281554	-.292438	-.303027	-.313316	-.323302	-.332981
78		-.315629	-.325974	-.335994	-.345684	-.355040	-.364061
80		-.347693	-.357411	-.366772	-.375774	-.384412	-.392684
82		-.377623	-.386625	-.395239	-.403463	-.411293	-.418728
84		-.405299	-.413497	-.421276	-.428634	-.435570	-.442080
86		-.430612	-.437919	-.444776	-.451182	-.457137	-.462637
88		-.453459	-.459788	-.465638	-.471009	-.475899	-.480308
90		-.473744	-.479013	-.483773	-.488026	-.491771	-.495010

$P_\nu(\cos \theta)$

ν	1.70	1.72	1.74	1.76	1.78	1.80
θ						
90	-.473744	-.479013	-.483773	-.488026	-.491771	-.495010
92	-.491381	-.495507	-.499098	-.502155	-.504680	-.506673
94	-.506289	-.509196	-.511542	-.513329	-.514560	-.515238
96	-.518400	-.520013	-.521041	-.521488	-.521359	-.520657
98	-.527651	-.527901	-.527544	-.526586	-.525034	-.522894
100	-.533991	-.532811	-.531007	-.528586	-.525555	-.521923
102	-.537375	-.534706	-.531399	-.527461	-.522902	-.517733
104	-.537768	-.533557	-.528696	-.523194	-.517065	-.510320
106	-.535144	-.529344	-.522885	-.515781	-.508047	-.499697
108	-.529487	-.522056	-.513964	-.505226	-.495860	-.485883
110	-.520788	-.511693	-.501939	-.491544	-.480529	-.468912
112	-.509047	-.498263	-.486827	-.474760	-.462086	-.448826
114	-.494272	-.481781	-.468652	-.454908	-.440576	-.425680
116	-.476481	-.462275	-.447450	-.432033	-.416052	-.399538
118	-.455697	-.439776	-.423262	-.406185	-.388578	-.370472
120	-.431952	-.414326	-.396140	-.377428	-.358224	-.338566
122	-.405283	-.385972	-.366141	-.345828	-.325072	-.303910
124	-.375735	-.354769	-.333331	-.311463	-.289206	-.266604
126	-.343356	-.320776	-.297780	-.274413	-.250722	-.226751
128	-.308201	-.284058	-.259563	-.234767	-.209718	-.184465
130	-.270327	-.244682	-.218761	-.192615	-.166298	-.139861
132	-.229791	-.202721	-.175456	-.148054	-.120569	-.093059
134	-.186656	-.158245	-.129732	-.101178	-.072641	-.044181
136	-.140979	-.111326	-.081674	-.052086	-.022624	.006648
138	-.092816	-.062032	-.031362	-.000871	.029374	.059309
140	-.042220	-.010429	.021125	.052374	.083249	.113682
142	.010768	.043428	.075719	.107567	.138901	.169653
144	.066118	.099496	.132359	.164632	.196242	.227119
146	.123816	.157745	.191002	.223510	.255195	.285986
148	.183870	.218167	.251624	.284161	.315704	.346180
150	.246321	.280786	.314228	.346570	.377734	.407649
152	.311249	.345661	.378857	.410758	.441287	.470373
154	.378788	.412907	.445602	.476793	.506407	.534372
156	.449149	.482709	.514622	.544809	.573198	.599723
158	.522644	.555350	.586169	.615025	.641850	.666580
160	.599729	.631251	.660627	.687786	.712664	.735203
162	.681070	.711030	.738566	.763613	.786110	.806008
164	.767639	.795602	.820838	.843288	.862901	.879636
166	.860886	.886333	.908722	.928000	.944129	.957077
168	.963038	.985335	1.004202	1.019600	1.031502	1.039891
170	1.077682	1.096009	1.110484	1.121084	1.127797	1.130627
172	1.210995	1.224227	1.233111	1.237645	1.237838	1.233717
174	1.374800	1.381239	1.382715	1.379255	1.370897	1.357701
176	1.596046	1.592696	1.583552	1.568679	1.548160	1.522100
178	1.961591	1.941309	1.913858	1.879371	1.838011	1.789961
180	∞	∞	∞	∞	∞	∞

$P_\nu(\cos \theta)$

ν	1.80	1.82	1.84	1.86	1.88	1.90
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.998465	.998437	.998408	.998380	.998351	.998322
4	.993867	.993754	.993641	.993527	.993412	.993296
6	.986224	.985972	.985718	.985462	.985204	.984944
8	.975566	.975121	.974672	.974219	.973763	.973303
10	.961936	.961246	.960549	.959846	.959138	.958424
12	.945389	.944402	.943407	.942404	.941393	.940374
14	.925991	.924661	.923319	.921967	.920605	.919232
16	.903819	.902100	.900368	.898622	.896864	.895092
18	.878962	.876814	.874649	.872469	.870272	.868060
20	.851519	.848904	.846270	.843617	.840946	.838257
22	.821600	.818486	.815349	.812192	.809013	.805813
24	.789325	.785682	.782015	.778325	.774611	.770874
26	.754823	.750628	.746407	.742161	.737890	.733593
28	.718232	.713466	.708674	.703854	.699008	.694136
30	.679698	.674349	.668972	.663568	.658136	.652677
32	.639377	.633437	.627468	.621473	.615450	.609401
34	.597429	.590896	.584336	.577749	.571136	.564498
36	.554022	.546901	.539754	.532582	.525387	.518169
38	.509331	.501632	.493910	.486166	.478402	.470618
40	.463536	.455274	.446994	.438697	.430384	.422056
42	.416820	.408019	.399205	.390379	.381544	.372700
44	.369371	.360059	.350741	.341418	.332093	.322767
46	.321380	.311591	.301805	.292023	.282248	.272481
48	.273040	.262815	.252603	.242406	.232225	.222063
50	.224546	.213931	.203341	.192777	.182243	.171739
52	.176094	.165141	.154226	.143351	.132519	.121732
54	.127879	.116645	.105465	.094339	.083272	.072265
56	.080097	.068645	.057262	.045951	.034716	.023559
58	.032942	.021338	.009821	-.001603	-.012935	-.024169
60	-.013395	-.025080	-.036656	-.048122	-.059473	-.070707
62	-.058726	-.070416	-.081976	-.093404	-.104695	-.115846
64	-.102866	-.114482	-.125946	-.137253	-.148400	-.159385
66	-.145635	-.157095	-.168377	-.179479	-.190397	-.201128
68	-.186857	-.198075	-.209091	-.219901	-.230500	-.240887
70	-.226362	-.237252	-.247913	-.258341	-.268532	-.278484
72	-.263987	-.274460	-.284676	-.294632	-.304324	-.313749
74	-.299576	-.309542	-.319223	-.328615	-.337716	-.346522
76	-.332981	-.342349	-.351404	-.360141	-.368559	-.376654
78	-.364061	-.372741	-.381079	-.389071	-.396715	-.404009
80	-.392684	-.400586	-.408117	-.415275	-.422056	-.428460
82	-.418728	-.425764	-.432400	-.438635	-.444466	-.449894
84	-.442080	-.448163	-.453819	-.459046	-.463843	-.468211
86	-.462637	-.467684	-.472276	-.476413	-.480095	-.483324
88	-.480308	-.484236	-.487685	-.490654	-.493145	-.495160
90	-.495010	-.497743	-.499973	-.501701	-.502930	-.503661

$P_\nu(\cos \theta)$

ν	1.80	1.82	1.84	1.86	1.88	1.90
θ						
90	-.495010	-.497743	-.499973	-.501701	-.502930	-.503661
92	-.506673	-.508139	-.509079	-.509497	-.509397	-.508782
94	-.515238	-.515368	-.514953	-.513999	-.512510	-.510493
96	-.520657	-.519389	-.517561	-.515178	-.512247	-.508777
98	-.522894	-.520172	-.516877	-.513016	-.508599	-.503634
100	-.521923	-.517699	-.512892	-.507512	-.501570	-.495077
102	-.517733	-.511964	-.505607	-.498675	-.491180	-.483134
104	-.510320	-.502974	-.495038	-.486529	-.477460	-.467848
106	-.499697	-.490747	-.481212	-.471110	-.460459	-.449275
108	-.485883	-.475313	-.464168	-.452469	-.440234	-.427484
110	-.468912	-.456715	-.443959	-.430666	-.416858	-.402559
112	-.448826	-.435005	-.420646	-.405775	-.390417	-.374597
114	-.425680	-.410248	-.394307	-.377883	-.361007	-.343705
116	-.399538	-.382518	-.365024	-.347087	-.328736	-.310004
118	-.370472	-.351900	-.332896	-.313493	-.293724	-.273626
120	-.338566	-.318488	-.298026	-.277218	-.256101	-.234712
122	-.303910	-.282383	-.260530	-.238391	-.216006	-.193415
124	-.266604	-.243697	-.220530	-.197145	-.173585	-.149894
126	-.226751	-.202548	-.178156	-.153624	-.128995	-.104317
128	-.184465	-.159058	-.133545	-.107975	-.082398	-.056861
130	-.139861	-.113357	-.086838	-.060355	-.033960	-.007704
132	-.093059	-.065577	-.038180	-.010922	.016144	.042965
134	-.044181	-.015855	.012277	.040162	.067742	.094962
136	.006648	.035672	.064387	.092734	.120655	.148094
138	.059309	.088872	.118000	.146631	.174707	.202170
140	.113682	.143609	.172966	.201690	.229722	.257001
142	.169653	.199756	.229145	.257756	.285528	.312402
144	.227119	.257193	.286401	.314676	.341959	.368192
146	.285986	.315812	.344608	.372311	.398859	.424197
148	.346180	.375520	.403659	.430533	.456084	.480256
150	.407649	.436247	.463462	.489233	.513505	.536223
152	.470373	.497949	.523953	.548326	.571015	.591971
154	.534372	.560625	.585106	.607760	.628538	.647397
156	.599723	.624321	.646938	.667524	.686035	.702433
158	.666580	.689158	.709535	.727668	.743518	.757058
160	.735203	.755353	.773070	.788319	.801072	.811309
162	.806008	.823264	.837845	.849723	.858882	.865311
164	.879636	.893459	.904349	.912290	.917277	.919315
166	.957077	.966824	.973361	.976687	.976813	.973761
168	1.039891	1.044764	1.046127	1.043998	1.038407	1.029394
170	1.130627	1.129588	1.124708	1.116027	1.103598	1.087486
172	1.233717	1.225323	1.212709	1.195944	1.175112	1.150307
174	1.357701	1.339739	1.317103	1.289900	1.258250	1.222291
176	1.522100	1.490622	1.453869	1.412002	1.365197	1.313651
178	1.789961	1.735431	1.674654	1.607884	1.535395	1.457484
180	∞	∞	∞	∞	∞	∞

$P_\nu(\cos \theta)$

ν	1.90	1.92	1.94	1.96	1.98	2.00
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.998322	.998292	.998263	.998233	.998203	.998173
4	.993296	.993179	.993061	.992942	.992822	.992701
6	.984944	.984681	.984417	.984150	.983881	.983610
8	.973303	.972839	.972371	.971900	.971425	.970946
10	.958424	.957705	.956979	.956248	.955512	.954769
12	.940374	.939347	.938312	.937269	.936218	.935159
14	.919232	.917848	.916455	.915050	.913635	.912210
16	.895092	.893306	.891508	.889697	.887873	.886036
18	.868060	.865832	.863588	.861328	.859053	.856762
20	.838257	.835548	.832822	.830077	.827314	.824533
22	.805813	.802593	.799351	.796089	.792807	.789504
24	.770874	.767114	.763331	.759526	.755698	.751848
26	.733593	.729272	.724926	.720557	.716163	.711746
28	.694136	.689238	.684314	.679366	.674392	.669394
30	.652677	.647192	.641682	.636146	.630585	.625000
32	.609401	.603326	.597226	.591101	.584951	.578778
34	.564498	.557836	.551150	.544440	.537708	.530955
36	.518169	.510929	.503667	.496385	.489083	.481762
38	.470618	.462816	.454996	.447160	.439308	.431441
40	.422056	.413715	.405361	.396996	.388620	.380236
42	.372700	.363849	.354991	.346129	.337263	.328396
44	.322767	.313442	.304118	.294798	.285483	.276174
46	.272481	.262723	.252977	.243244	.233526	.223825
48	.222063	.211922	.201803	.191710	.181642	.171603
50	.171739	.161269	.150834	.140436	.130079	.119763
52	.121732	.110993	.100303	.089666	.079084	.068558
54	.072265	.061322	.050445	.039637	.028900	.018237
56	.023559	.012483	.001491	-.009414	-.020230	-.030954
58	-.024169	-.035303	-.046333	-.057258	-.068074	-.078778
60	-.070707	-.081819	-.092808	-.103669	-.114401	-.124999
62	-.115846	-.126855	-.137717	-.148429	-.158989	-.169394
64	-.159385	-.170203	-.180851	-.191326	-.201625	-.211746
66	-.201128	-.211667	-.222012	-.232158	-.242105	-.251847
68	-.240887	-.251056	-.261006	-.270733	-.280233	-.289504
70	-.278484	-.288192	-.297654	-.306867	-.315827	-.324533
72	-.313749	-.322903	-.331785	-.340390	-.348717	-.356762
74	-.346522	-.355030	-.363238	-.371143	-.378743	-.386036
76	-.376654	-.384424	-.391867	-.398980	-.405762	-.412210
78	-.404009	-.410950	-.417538	-.423769	-.429643	-.435159
80	-.428460	-.434484	-.440128	-.445391	-.450271	-.454769
82	-.449894	-.454916	-.459532	-.463742	-.467547	-.470946
84	-.468211	-.472148	-.475656	-.478735	-.481386	-.483610
86	-.483324	-.486099	-.488423	-.490296	-.491721	-.492701
88	-.495160	-.496701	-.497770	-.498369	-.498502	-.498173
90	-.503661	-.503900	-.503649	-.502912	-.501694	-.500000

$P_\nu(\cos \theta)$

ν	1.90	1.92	1.94	1.96	1.98	2.00
θ						
90	-.503661	-.503900	-.503649	-.502912	-.501694	-.500000
92	-.508782	-.507658	-.506029	-.503902	-.501280	-.498173
94	-.510493	-.507952	-.504895	-.501329	-.497262	-.492701
96	-.508777	-.504774	-.500246	-.495204	-.489655	-.483610
98	-.503634	-.498130	-.492099	-.485550	-.478495	-.470946
100	-.495077	-.488044	-.480484	-.472410	-.463833	-.454769
102	-.483134	-.474553	-.465450	-.455839	-.445737	-.435159
104	-.467848	-.457708	-.447057	-.435912	-.424290	-.412210
106	-.449275	-.437577	-.425385	-.412717	-.399594	-.386036
108	-.427484	-.414240	-.400524	-.386358	-.371763	-.356762
110	-.402559	-.387793	-.372582	-.356952	-.340927	-.324533
112	-.374597	-.358341	-.341677	-.324631	-.307231	-.289504
114	-.343705	-.326007	-.307942	-.289541	-.270832	-.251847
116	-.310004	-.290922	-.271523	-.251839	-.231902	-.211746
118	-.273626	-.253231	-.232576	-.211694	-.190622	-.169394
120	-.234712	-.213088	-.191268	-.169287	-.147185	-.124999
122	-.193415	-.170658	-.147776	-.124808	-.101796	-.078778
124	-.149894	-.126113	-.102286	-.078456	-.054665	-.030954
126	-.104317	-.079635	-.054994	-.030438	-.006013	.018237
128	-.056861	-.031412	-.006099	.019030	.043931	.068558
130	-.007704	.018362	.044190	.069732	.094939	.119763
132	.042965	.069489	.095665	.121441	.146770	.171603
134	.094962	.121768	.148108	.173931	.199186	.223825
136	.148094	.174995	.201304	.226971	.251944	.276174
138	.202170	.228964	.255035	.280330	.304800	.328396
140	.257001	.283474	.309084	.333781	.357513	.380236
142	.312402	.338324	.363238	.387094	.409843	.431441
144	.368192	.393318	.417286	.440046	.461553	.481762
146	.424197	.448269	.471026	.492421	.512410	.530955
148	.480256	.502999	.524264	.544007	.562191	.578778
150	.536223	.557341	.576815	.594605	.610677	.625000
152	.591971	.611149	.628513	.644026	.657661	.669394
154	.647397	.664297	.679207	.692098	.702950	.711746
156	.702433	.716687	.728772	.738668	.746362	.751848
158	.757058	.768262	.777115	.783607	.787736	.789504
160	.811309	.819015	.824184	.826820	.826931	.824533
162	.865311	.869010	.869985	.868252	.863834	.856762
164	.919315	.918416	.914604	.907909	.898370	.886036
166	.973761	.967559	.958249	.945879	.930510	.912210
168	1.029394	1.017010	1.001317	.982388	.960304	.935159
170	1.087486	1.067768	1.044533	1.017879	.987917	.954769
172	1.150307	1.121640	1.089230	1.053213	1.013733	.970946
174	1.222291	1.182174	1.138063	1.090136	1.038585	.983610
176	1.313651	1.257575	1.197194	1.132750	1.064496	.992701
178	1.457484	1.374465	1.286669	1.194444	1.098153	.998173
180	∞	∞	∞	∞	∞	1.000000

		$P_\nu(\cos \theta)$					
ν	2.00	2.02	2.04	2.06	2.08	2.10	
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	
2	.998173	.998142	.998111	.998080	.998049	.998018	
4	.992701	.992579	.992456	.992332	.992207	.992081	
6	.983610	.983337	.983062	.982785	.982505	.982223	
8	.970946	.970463	.969977	.969487	.968993	.968496	
10	.954769	.954021	.953267	.952508	.951743	.950972	
12	.935159	.934092	.933017	.931935	.930844	.929746	
14	.912210	.910775	.909329	.907873	.906407	.904930	
16	.886036	.884186	.882323	.880447	.878558	.876657	
18	.856762	.854456	.852135	.849798	.847445	.845078	
20	.824533	.821734	.818917	.816083	.813231	.810361	
22	.789504	.786182	.782839	.779476	.776094	.772692	
24	.751848	.747975	.744082	.740166	.736229	.732272	
26	.711746	.707305	.702841	.698355	.693846	.689315	
28	.669394	.664372	.659327	.654258	.649166	.644051	
30	.625000	.619390	.613757	.608101	.602422	.596721	
32	.578778	.572582	.566363	.560123	.553861	.547578	
34	.530955	.524180	.517384	.510569	.503735	.496883	
36	.481762	.474424	.467068	.459696	.452308	.444906	
38	.431441	.423561	.415668	.407764	.399849	.391924	
40	.380236	.371843	.363444	.355040	.346631	.338219	
42	.328396	.319528	.310661	.301795	.292934	.284077	
44	.276174	.266874	.257583	.248304	.239037	.229785	
46	.223825	.214142	.204480	.194840	.185223	.175632	
48	.171603	.161595	.151619	.141678	.131772	.121905	
50	.119763	.109492	.099267	.089090	.078964	.068890	
52	.068558	.058092	.047688	.037347	.027073	.016868	
54	.018237	.007650	-.002858	-.013284	-.023628	-.033885	
56	-.030954	-.041584	-.052116	-.062548	-.072878	-.083102	
58	-.078778	-.089367	-.099839	-.110190	-.120419	-.130522	
60	-.124999	-.135462	-.145785	-.155967	-.166004	-.175895	
62	-.169394	-.179640	-.189725	-.199645	-.209398	-.218981	
64	-.211746	-.221683	-.231436	-.241000	-.250374	-.259555	
66	-.251847	-.261383	-.270709	-.279823	-.288721	-.297402	
68	-.289504	-.298543	-.307348	-.315914	-.324241	-.332326	
70	-.324533	-.332980	-.341168	-.349092	-.356752	-.364145	
72	-.356762	-.364524	-.372000	-.379188	-.386086	-.392692	
74	-.386036	-.393019	-.399690	-.406049	-.412093	-.417821	
76	-.412210	-.418324	-.424101	-.429540	-.434642	-.439404	
78	-.435159	-.440315	-.445110	-.449545	-.453619	-.457331	
80	-.454769	-.458883	-.462615	-.465963	-.468929	-.471513	
82	-.470946	-.473939	-.476528	-.478714	-.480497	-.481881	
84	-.483610	-.485409	-.486783	-.487736	-.488269	-.488386	
86	-.492701	-.493236	-.493330	-.492987	-.492210	-.491003	
88	-.498173	-.497384	-.496140	-.494446	-.492306	-.489725	
90	-.500000	-.497833	-.495201	-.492108	-.488562	-.484568	

		$P_\nu(\cos \theta)$					
ν		2.00	2.02	2.04	2.06	2.08	2.10
θ							
90	-.500000	-.497833	-.495201	-.492108	-.488562	-.484568	
92	-.498173	-.494584	-.490522	-.485993	-.481006	-.475569	
94	-.492701	-.487653	-.482129	-.476137	-.469686	-.462787	
96	-.483610	-.477078	-.470070	-.462597	-.454669	-.446299	
98	-.470946	-.462913	-.454410	-.445449	-.436043	-.426206	
100	-.454769	-.445230	-.435231	-.424788	-.413914	-.402626	
102	-.435159	-.424120	-.412637	-.400728	-.388409	-.375699	
104	-.412210	-.399689	-.386746	-.373401	-.359672	-.345581	
106	-.386036	-.372062	-.357695	-.342956	-.327866	-.312447	
108	-.356762	-.341379	-.325636	-.309558	-.293168	-.276491	
110	-.324533	-.307794	-.290738	-.273389	-.255774	-.237919	
112	-.289504	-.271479	-.253183	-.234645	-.215893	-.196956	
114	-.251847	-.232616	-.213168	-.193536	-.173749	-.153838	
116	-.211746	-.191402	-.170904	-.150285	-.129578	-.108815	
118	-.169394	-.148046	-.126612	-.105128	-.083629	-.062149	
120	-.124999	-.102767	-.080524	-.058310	-.036160	-.014110	
122	-.078778	-.055794	-.032884	-.010086	.012560	.035018	
124	-.030954	-.007366	.016058	.039279	.062257	.084951	
126	.018237	.042271	.066045	.089517	.112646	.135393	
128	.068558	.092866	.116810	.140349	.163440	.186043	
130	.119763	.144161	.168086	.191495	.214347	.236599	
132	.171603	.195894	.219598	.242670	.265069	.286754	
134	.223825	.247801	.271070	.293587	.315311	.336202	
136	.276174	.299616	.322225	.343957	.364773	.384634	
138	.328396	.351072	.372785	.393494	.413159	.431744	
140	.380236	.401903	.422474	.441908	.460170	.477226	
142	.431441	.451845	.471015	.488915	.505513	.520777	
144	.481762	.500636	.518137	.534232	.548894	.562096	
146	.530955	.548018	.563568	.577578	.590023	.600882	
148	.578778	.593738	.607045	.618676	.628611	.636839	
150	.625000	.637549	.648304	.657249	.664372	.669668	
152	.669394	.679207	.687087	.693024	.697017	.699069	
154	.711746	.718476	.723136	.725727	.726256	.724734	
156	.751848	.755124	.756198	.755079	.751787	.746345	
158	.789504	.788924	.786012	.780793	.773296	.763559	
160	.824533	.819650	.812314	.802563	.790440	.775998	
162	.856762	.847076	.834821	.820052	.802831	.783225	
164	.886036	.870964	.853218	.832871	.810004	.784705	
166	.912210	.891056	.867135	.840539	.811372	.779742	
168	.935159	.907053	.876098	.842413	.806125	.767370	
170	.954769	.918565	.879445	.837559	.793063	.746125	
172	.970946	.925019	.876130	.824464	.770214	.713585	
174	.983610	.925426	.864256	.800332	.733896	.665196	
176	.992701	.917641	.839606	.758893	.675810	.590669	
178	.998173	.894892	.788710	.680035	.569283	.456877	
180	1.000000	-∞	-∞	-∞	-∞	-∞	

$P_\nu(\cos \theta)$						
ν	2.10	2.12	2.14	2.16	2.18	2.20
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.998018	.997986	.997954	.997921	.997889	.997856
4	.992081	.991955	.991827	.991698	.991569	.991438
6	.982223	.981940	.981654	.981366	.981076	.980783
8	.968496	.967995	.967490	.966981	.966469	.965953
10	.950972	.950196	.949414	.948626	.947833	.947034
12	.929746	.928640	.927526	.926404	.925274	.924137
14	.904930	.903443	.901946	.900439	.898921	.897394
16	.876657	.874743	.872816	.870877	.868926	.866961
18	.845078	.842696	.840298	.837886	.835458	.833016
20	.810361	.807474	.804570	.801649	.798710	.795755
22	.772692	.769271	.765830	.762371	.758892	.755395
24	.732272	.728292	.724293	.720272	.716232	.712171
26	.689315	.684761	.680186	.675590	.670972	.666334
28	.644051	.638914	.633755	.628574	.623372	.618150
30	.596721	.590998	.585254	.579489	.573704	.567898
32	.547578	.541275	.534952	.528610	.522250	.515871
34	.496883	.490013	.483126	.476223	.469304	.462370
36	.444906	.437490	.430061	.422620	.415168	.407705
38	.391924	.383991	.376050	.368103	.360150	.352192
40	.338219	.329805	.321390	.312976	.304563	.296152
42	.284077	.275226	.266383	.257548	.248724	.239911
44	.229785	.220548	.211329	.202129	.192949	.183791
46	.175632	.166068	.156532	.147028	.137555	.128116
48	.121905	.112078	.102293	.092552	.082856	.073208
50	.068890	.058871	.048909	.039005	.029162	.019382
52	.016868	.006733	-.003327	-.013314	-.023223	-.033053
54	-.033885	-.044054	-.054132	-.064116	-.074006	-.083797
56	-.083102	-.093219	-.103225	-.113120	-.122899	-.132561
58	-.130522	-.140497	-.150342	-.160053	-.169629	-.179066
60	-.175895	-.185635	-.195223	-.204657	-.213933	-.223049
62	-.218981	-.228392	-.237628	-.246686	-.255564	-.264260
64	-.259555	-.268539	-.277325	-.285910	-.294292	-.302469
66	-.297402	-.305863	-.314102	-.322115	-.329902	-.337461
68	-.332326	-.340166	-.347760	-.355105	-.362199	-.369041
70	-.364145	-.371268	-.378121	-.384701	-.391007	-.397038
72	-.392692	-.399005	-.405023	-.410746	-.416171	-.421298
74	-.417821	-.423233	-.428327	-.433102	-.437557	-.441693
76	-.439404	-.443827	-.447910	-.451652	-.455055	-.458117
78	-.457331	-.460682	-.463673	-.466304	-.468575	-.470488
80	-.471513	-.473716	-.475540	-.476985	-.478054	-.478748
82	-.481881	-.482865	-.483454	-.483648	-.483451	-.482865
84	-.488386	-.488089	-.487382	-.486267	-.484750	-.482833
86	-.491003	-.489370	-.487315	-.484843	-.481959	-.478669
88	-.489725	-.486709	-.483264	-.479396	-.475111	-.470415
90	-.484568	-.480134	-.475266	-.469973	-.464262	-.458142

		$P_\nu(\cos \theta)$					
ν		2.10	2.12	2.14	2.16	2.18	2.20
θ							
90	-	.484568	-.480134	-.475266	-.469973	-.464262	-.458141
92	-	.475569	-.469691	-.463379	-.456644	-.449494	-.441940
94	-	.462787	-.455449	-.447683	-.439499	-.430910	-.421927
96	-	.446299	-.437499	-.428280	-.418656	-.408639	-.398243
98	-	.426206	-.415952	-.405294	-.394249	-.382829	-.371052
100	-	.402626	-.390939	-.378871	-.366436	-.353653	-.340537
102	-	.375699	-.362614	-.349174	-.335396	-.321301	-.306906
104	-	.345581	-.331145	-.316387	-.301327	-.285985	-.270383
106	-	.312447	-.296722	-.280714	-.264444	-.247935	-.231212
108	-	.276491	-.259551	-.242372	-.224980	-.207399	-.189655
110	-	.237919	-.219852	-.201598	-.183185	-.164640	-.145988
112	-	.196956	-.177863	-.158643	-.139323	-.119934	-.100503
114	-	.153838	-.133835	-.113769	-.093672	-.073573	-.053504
116	-	.108815	-.088030	-.067254	-.046520	-.025860	-.005306
118	-	.062149	-.040723	-.019385	.001830	.022892	.043765
120	-	.014110	.007801	.029541	.051073	.072363	.093377
122		.035018	.057250	.079219	.100889	.122225	.143191
124		.084951	.107324	.129338	.150957	.172143	.192863
126		.135393	.157717	.179581	.200947	.221780	.242045
128		.186043	.208118	.229626	.250531	.270797	.290390
130		.236599	.258213	.279150	.299375	.318851	.337547
132		.286754	.307686	.327828	.347145	.365602	.383169
134		.336202	.356222	.375336	.393509	.410711	.426911
136		.384634	.403504	.421348	.438137	.453839	.468430
138		.431744	.449216	.465543	.480698	.494654	.507388
140		.477226	.493046	.507601	.520867	.532823	.543450
142		.520777	.534682	.547204	.558322	.568021	.576287
144		.562096	.573816	.584036	.592741	.599922	.605569
146		.600882	.610140	.617784	.623807	.628203	.630974
148		.636839	.643348	.648136	.651199	.652543	.652175
150		.669668	.673134	.674774	.674597	.672613	.668841
152		.699069	.699185	.697380	.693670	.688078	.680632
154		.724734	.721180	.715618	.708074	.698585	.687188
156		.746345	.738782	.729134	.717442	.703753	.688118
158		.763559	.751624	.737541	.721365	.703156	.682980
160		.775998	.759295	.740396	.719371	.696296	.671254
162		.783225	.761311	.737169	.710889	.682564	.652293
164		.784705	.757067	.727193	.695190	.661172	.625259
166		.779742	.745768	.709574	.671288	.631047	.588993
168		.767370	.726290	.683035	.637762	.590630	.541807
170		.746125	.696917	.645618	.592414	.537496	.481059
172		.713585	.654784	.594028	.531538	.467540	.402264
174		.665196	.594489	.522036	.448103	.372960	.296880
176		.590669	.503791	.415500	.326123	.235992	.145438
178		.456877	.343243	.228811	.114011	-.000725	-.114970
180		-∞	-∞	-∞	-∞	-∞	-∞

$P_\nu(\cos \theta)$						
ν	2.20	2.22	2.24	2.26	2.28	2.30
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.997856	.997823	.997790	.997756	.997723	.997689
4	.991438	.991307	.991174	.991041	.990906	.990771
6	.980783	.980489	.980192	.979893	.979593	.979290
8	.965953	.965433	.964910	.964383	.963852	.963318
10	.947034	.946230	.945420	.944604	.943783	.942956
12	.924137	.922991	.921839	.920678	.919510	.918333
14	.897394	.895856	.894309	.892751	.891183	.889606
16	.866961	.864984	.862995	.860994	.858980	.856953
18	.833016	.830559	.828087	.825600	.823099	.820584
20	.795755	.792782	.789793	.786787	.783765	.780726
22	.755395	.751879	.748344	.744791	.741220	.737631
24	.712171	.708090	.703990	.699869	.695730	.691572
26	.666334	.661675	.656995	.652296	.647576	.642838
28	.618150	.612907	.607643	.602360	.597058	.591736
30	.567898	.562074	.556230	.550367	.544487	.538589
32	.515871	.509475	.503063	.496634	.490189	.483730
34	.462370	.455422	.448461	.441487	.434501	.427504
36	.407705	.400232	.392751	.385262	.377766	.370264
38	.352192	.344231	.336267	.328301	.320335	.312368
40	.296152	.287746	.279344	.270949	.262560	.254180
42	.239911	.231110	.222324	.213553	.204799	.196063
44	.183791	.174656	.165546	.156462	.147406	.138379
46	.128116	.118713	.109347	.100020	.090733	.081488
48	.073208	.063609	.054062	.044567	.035127	.025743
50	.019382	.009666	.000017	-.009562	-.019072	-.028510
52	-.033053	-.042801	-.052465	-.062044	-.071535	-.080936
54	-.083797	-.093489	-.103079	-.112564	-.121944	-.131214
56	-.132561	-.142104	-.151525	-.160821	-.169992	-.179035
58	-.179066	-.188364	-.197519	-.206529	-.215392	-.224106
60	-.223049	-.232003	-.240793	-.249417	-.257872	-.266156
62	-.264260	-.272772	-.281097	-.289233	-.297178	-.304930
64	-.302469	-.310438	-.318197	-.325745	-.333080	-.340199
66	-.337461	-.344788	-.351883	-.358743	-.365367	-.371754
68	-.369041	-.375629	-.381962	-.388038	-.393855	-.399413
70	-.397038	-.402792	-.408268	-.413465	-.418382	-.423018
72	-.421298	-.426127	-.430655	-.434884	-.438812	-.442440
74	-.441693	-.445510	-.449006	-.452182	-.455039	-.457576
76	-.458117	-.460840	-.463224	-.465271	-.466980	-.468354
78	-.470488	-.472043	-.473243	-.474090	-.474583	-.474727
80	-.478748	-.479070	-.479021	-.478605	-.477824	-.476682
82	-.482865	-.481895	-.480542	-.478812	-.476707	-.474232
84	-.482833	-.480521	-.477819	-.474732	-.471264	-.467422
86	-.478669	-.474977	-.470891	-.466416	-.461558	-.456324
88	-.470415	-.465317	-.459822	-.453940	-.447676	-.441041
90	-.458142	-.451620	-.444706	-.437409	-.429737	-.421702

		$P_\nu(\cos \theta)$					
ν		2.20	2.22	2.24	2.26	2.28	2.30
θ							
90	-.458141	-.451620	-.444706	-.437409	-.429738	-.421702	
92	-.441940	-.433991	-.425659	-.416953	-.407885	-.398466	
94	-.421927	-.412561	-.402824	-.392729	-.382288	-.371515	
96	-.398243	-.387482	-.376368	-.364918	-.353144	-.341061	
98	-.371052	-.358931	-.346483	-.333724	-.320670	-.307337	
100	-.340537	-.327108	-.313381	-.299375	-.285109	-.270599	
102	-.306906	-.292231	-.277296	-.262120	-.246723	-.231126	
104	-.270383	-.254541	-.238482	-.222227	-.205797	-.189214	
106	-.231212	-.214296	-.197212	-.179982	-.162630	-.145179	
108	-.189655	-.171771	-.153774	-.135689	-.117540	-.099352	
110	-.145988	-.127257	-.108475	-.089666	-.070859	-.052079	
112	-.100503	-.081059	-.061630	-.042245	-.022931	-.003716	
114	-.053504	-.033494	-.013572	.006230	.025886	.045367	
116	-.005306	.015110	.035359	.055410	.075233	.094797	
118	.043765	.064417	.084817	.104933	.124735	.144193	
120	.093377	.114082	.134445	.154434	.174019	.193169	
122	.143191	.163755	.183883	.203543	.222705	.241339	
124	.192863	.213082	.232768	.251890	.270415	.288316	
126	.242045	.261708	.280737	.299101	.316770	.333717	
128	.290390	.309276	.327425	.344807	.361394	.377159	
130	.337547	.355430	.372471	.388641	.403915	.418269	
132	.383169	.399816	.415515	.430240	.443968	.456677	
134	.426911	.442083	.456202	.469245	.481191	.492024	
136	.468430	.481886	.494183	.505305	.515234	.523957	
138	.507388	.518881	.529115	.538076	.545752	.552134	
140	.543450	.552733	.560659	.567219	.572407	.576220	
142	.576287	.583109	.588482	.592403	.594871	.595890	
144	.605569	.609681	.612257	.613300	.612820	.610825	
146	.630974	.632123	.631657	.629588	.625933	.620710	
148	.652175	.650107	.646356	.640942	.633890	.625229	
150	.668841	.663301	.656021	.647031	.636365	.624061	
152	.680632	.671363	.660309	.647511	.633015	.616871	
154	.687188	.673927	.658852	.642015	.623475	.603295	
156	.688118	.670594	.651244	.630134	.607335	.582923	
158	.682980	.660910	.637021	.611394	.584116	.555277	
160	.671254	.644332	.615622	.585222	.553233	.519761	
162	.652293	.620183	.586343	.550888	.513936	.475611	
164	.625259	.587575	.548250	.507418	.465216	.421786	
166	.588993	.545273	.500038	.453442	.405644	.356806	
168	.541807	.491464	.439777	.386925	.333089	.278453	
170	.481059	.423304	.364433	.304653	.244170	.183195	
172	.402264	.335945	.268816	.201118	.133086	.064960	
174	.296880	.220140	.143015	.065781	-.011286	-.087913	
176	.145438	.054792	-.035612	-.125450	-.214395	-.302127	
178	-.114970	-.228299	-.340292	-.450534	-.558621	-.664156	
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	

$P_\nu(\cos \theta)$

ν	2.30	2.32	2.34	2.36	2.38	2.40
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.997689	.997655	.997620	.997585	.997551	.997515
4	.990771	.990634	.990497	.990359	.990220	.990080
6	.979290	.978985	.978677	.978368	.978057	.977743
8	.963318	.962780	.962238	.961692	.961143	.960590
10	.942956	.942124	.941286	.940442	.939593	.938739
12	.918333	.917150	.915958	.914759	.913552	.912338
14	.889606	.888018	.886420	.884813	.883195	.881568
16	.856953	.854915	.852864	.850801	.848727	.846640
18	.820584	.818054	.815510	.812951	.810378	.807791
20	.780726	.777670	.774599	.771511	.768408	.765288
22	.737631	.734024	.730399	.726757	.723097	.719420
24	.691572	.687394	.683198	.678984	.674751	.670500
26	.642838	.638080	.633303	.628508	.623694	.618862
28	.591736	.586396	.581038	.575661	.570267	.564856
30	.538589	.532674	.526742	.520794	.514830	.508851
32	.483730	.477256	.470768	.464266	.457752	.451226
34	.427504	.420496	.413478	.406451	.399415	.392372
36	.370264	.362756	.355244	.347728	.340209	.332688
38	.312368	.304404	.296441	.288482	.280527	.272577
40	.254180	.245810	.237450	.229102	.220767	.212446
42	.196063	.187346	.178650	.169976	.161324	.152698
44	.138379	.129383	.120419	.111489	.102594	.093735
46	.081488	.072287	.063131	.054022	.044962	.035951
48	.025743	.016418	.007152	-.002050	-.011191	-.020266
50	-.028510	-.037873	-.047160	-.056369	-.065498	-.074546
52	-.080936	-.090246	-.099462	-.108582	-.117605	-.126528
54	-.131214	-.140374	-.149422	-.158355	-.167172	-.175870
56	-.179035	-.187947	-.196726	-.205371	-.213880	-.222251
58	-.224106	-.232669	-.241079	-.249333	-.257430	-.265369
60	-.266156	-.274267	-.282204	-.289964	-.297546	-.304947
62	-.304930	-.312488	-.319849	-.327012	-.333975	-.340736
64	-.340199	-.347101	-.353785	-.360249	-.366492	-.372512
66	-.371754	-.377902	-.383810	-.389476	-.394900	-.400081
68	-.399413	-.404710	-.409746	-.414521	-.419032	-.423279
70	-.423018	-.427374	-.431447	-.435239	-.438749	-.441977
72	-.442440	-.445767	-.448794	-.451520	-.453946	-.456074
74	-.457576	-.459795	-.461697	-.463281	-.464551	-.465505
76	-.468354	-.469393	-.470099	-.470475	-.470521	-.470241
78	-.474727	-.474523	-.473974	-.473082	-.471851	-.470283
80	-.476682	-.475181	-.473326	-.471119	-.468565	-.465668
82	-.474232	-.471392	-.468190	-.464633	-.460724	-.456470
84	-.467422	-.463210	-.458635	-.453703	-.448419	-.442791
86	-.456324	-.450722	-.444758	-.438440	-.431775	-.424771
88	-.441041	-.434041	-.426687	-.418985	-.410947	-.402580
90	-.421702	-.413313	-.404579	-.395511	-.386121	-.376417

		$P_\nu(\cos \theta)$					
ν		2.30	2.32	2.34	2.36	2.38	2.40
θ							
90		-.421702	-.413313	-.404579	-.395511	-.386120	-.376417
92		-.398466	-.388707	-.378620	-.368218	-.357512	-.346515
94		-.371515	-.360423	-.349025	-.337334	-.325364	-.313130
96		-.341061	-.328685	-.316031	-.303113	-.289947	-.276549
98		-.307337	-.293742	-.279902	-.265834	-.251554	-.237080
100		-.270599	-.255865	-.240925	-.225798	-.210502	-.195056
102		-.231126	-.215347	-.199408	-.183328	-.167128	-.150828
104		-.189214	-.172499	-.155676	-.138764	-.121787	-.104766
106		-.145179	-.127652	-.110073	-.092466	-.074852	-.057256
108		-.099352	-.081150	-.062959	-.044803	-.026708	-.008695
110		-.052079	-.033352	-.014705	.003836	.022248	.040504
112		-.003716	.015371	.034307	.053062	.071612	.089930
114		.045367	.064643	.083687	.102472	.120971	.139157
116		.094797	.114075	.133038	.151658	.169908	.187763
118		.144193	.163277	.181959	.200212	.218008	.235321
120		.193169	.211856	.230050	.247724	.264853	.281411
122		.241339	.259416	.276907	.293788	.310031	.325614
124		.288316	.305565	.322135	.337999	.353136	.367522
126		.333717	.349914	.365337	.379962	.393767	.406732
128		.377159	.392078	.406128	.419286	.431535	.442857
130		.418269	.431680	.444427	.455594	.466062	.475519
132		.456677	.468350	.478967	.488516	.496982	.504357
134		.492024	.501728	.510289	.517697	.523944	.529024
136		.523957	.531463	.537744	.542793	.546609	.549190
138		.552134	.557217	.560998	.563476	.564655	.564541
140		.576220	.578658	.579726	.579428	.577774	.574777
142		.595890	.595468	.593614	.590342	.585670	.579616
144		.610825	.607332	.602358	.595924	.588057	.578783
146		.620710	.613942	.605657	.595884	.584658	.572016
148		.625229	.614991	.603213	.589934	.575198	.559053
150		.624061	.610165	.594720	.577779	.559396	.539627
152		.616871	.599133	.579859	.559111	.536955	.513459
154		.603295	.581539	.558280	.533590	.507549	.480235
156		.582923	.556978	.529584	.500827	.470798	.439591
158		.555277	.524970	.493294	.460350	.426242	.391077
160		.519761	.484917	.448811	.411562	.373289	.334111
162		.475611	.436039	.395349	.353673	.311147	.267905
164		.421786	.377272	.331822	.285584	.238709	.191349
166		.356806	.307092	.256668	.205701	.154360	.102812
168		.278453	.223202	.167525	.111606	.055634	-.000204
170		.183195	.121938	.060606	-.000589	-.061442	-.121748
172		.064960	-.003022	-.070627	-.137620	-.203772	-.268855
174		-.087913	-.163830	-.238770	-.312469	-.384673	-.455130
176		-.302127	-.388332	-.472701	-.554937	-.634747	-.711851
178		-.664156	-.766756	-.866046	-.961670	-1.053282	-1.140554
180		-∞	-∞	-∞	-∞	-∞	-∞

$P_\nu(\cos \theta)$						
ν	2.40	2.42	2.44	2.46	2.48	2.50
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.997515	.997480	.997444	.997408	.997372	.997336
4	.990080	.989938	.989796	.989653	.989509	.989364
6	.977743	.977427	.977110	.976790	.976468	.976144
8	.960590	.960034	.959474	.958910	.958343	.957772
10	.938739	.937879	.937013	.936142	.935266	.934384
12	.912338	.911116	.909886	.908649	.907404	.906152
14	.881568	.879931	.878284	.876628	.874962	.873286
16	.846640	.844541	.842430	.840307	.838172	.836026
18	.807791	.805190	.802576	.799947	.797304	.794648
20	.765288	.762153	.759002	.755835	.752653	.749456
22	.719420	.715726	.712015	.708287	.704543	.700782
24	.670500	.666232	.661946	.657642	.653322	.648984
26	.618862	.614012	.609145	.604261	.599360	.594443
28	.564856	.559428	.553984	.548524	.543048	.537557
30	.508851	.502857	.496849	.490827	.484791	.478743
32	.451226	.444688	.438139	.431579	.425010	.418432
34	.392372	.385321	.378265	.371202	.364134	.357063
36	.332688	.325166	.317644	.310122	.302601	.295083
38	.272577	.264634	.256698	.248770	.240851	.232942
40	.212446	.204140	.195850	.187578	.179324	.171091
42	.152698	.144097	.135523	.126977	.118461	.109975
44	.093735	.084914	.076132	.067391	.058691	.050036
46	.035951	.026992	.018086	.009235	.000440	-.008297
48	-.020266	-.029275	-.038215	-.047085	-.055884	-.064609
50	-.074546	-.083510	-.092390	-.101182	-.109886	-.118500
52	-.126528	-.135350	-.144069	-.152683	-.161191	-.169590
54	-.175870	-.184448	-.192905	-.201237	-.209443	-.217523
56	-.222251	-.230481	-.238570	-.246514	-.254314	-.261966
58	-.265369	-.273146	-.280761	-.288212	-.295498	-.302615
60	-.304947	-.312167	-.319204	-.326055	-.332721	-.339198
62	-.340736	-.347295	-.353649	-.359797	-.365739	-.371472
64	-.372512	-.378308	-.383879	-.389224	-.394342	-.399232
66	-.400081	-.405017	-.409708	-.414153	-.418352	-.422305
68	-.423279	-.427263	-.430983	-.434439	-.437630	-.440557
70	-.441977	-.444922	-.447586	-.449969	-.452070	-.453892
72	-.456074	-.457902	-.459434	-.460668	-.461608	-.462254
74	-.465505	-.466147	-.466478	-.466500	-.466214	-.465624
76	-.470241	-.469636	-.468709	-.467462	-.465900	-.464024
78	-.470283	-.468381	-.466150	-.463593	-.460713	-.457515
80	-.465668	-.462433	-.458863	-.454964	-.450741	-.446198
82	-.456470	-.451875	-.446946	-.441688	-.436108	-.430212
84	-.442791	-.436826	-.430530	-.423910	-.416975	-.409731
86	-.424771	-.417438	-.409782	-.401812	-.393538	-.384967
88	-.402580	-.393895	-.384901	-.375608	-.366027	-.356168
90	-.376417	-.366413	-.356119	-.345546	-.334706	-.323611

$P_\nu(\cos \theta)$

ν	2.40	2.42	2.44	2.46	2.48	2.50
θ						
90	-.376417	-.366413	-.356119	-.345546	-.334706	-.323611
92	-.346515	-.335239	-.323697	-.311902	-.299867	-.287606
94	-.313130	-.300646	-.287925	-.274983	-.261833	-.248492
96	-.276549	-.262935	-.249119	-.235120	-.220951	-.206631
98	-.237080	-.222430	-.207620	-.192669	-.177593	-.162410
100	-.195056	-.179479	-.163790	-.148007	-.132150	-.116237
102	-.150828	-.134448	-.118009	-.101531	-.085034	-.068537
104	-.104766	-.087722	-.070677	-.053652	-.036669	-.019749
106	-.057256	-.039699	-.022205	-.004797	.012504	.029676
108	-.008695	.009208	.026981	.044600	.062041	.079283
110	.040504	.058581	.076452	.094096	.111488	.128605
112	.089930	.107991	.125770	.143244	.160388	.177179
114	.139157	.157007	.174494	.191594	.208285	.224542
116	.187763	.205196	.222184	.238701	.254726	.270237
118	.235321	.252127	.268402	.284122	.299266	.313812
120	.281411	.297374	.312718	.327422	.341466	.354829
122	.325614	.340513	.354707	.368176	.380900	.392862
124	.367522	.381135	.393957	.405970	.417157	.427502
126	.406732	.418838	.430068	.440407	.449841	.458359
128	.442857	.453234	.462655	.471106	.478578	.485062
130	.475519	.483951	.491349	.497704	.503010	.507264
132	.504357	.510631	.515799	.519857	.522804	.524641
134	.529024	.532934	.535673	.537243	.537648	.536893
136	.549190	.550539	.550660	.549562	.547253	.543747
138	.564541	.563141	.560467	.556533	.551355	.544953
140	.574777	.570453	.564819	.557896	.549710	.540285
142	.579616	.572204	.563459	.553412	.542094	.529539
144	.578783	.568135	.556146	.542855	.528302	.512530
146	.572016	.557998	.542648	.526012	.508141	.489086
148	.559053	.541548	.522736	.502676	.481425	.459045
150	.539627	.518535	.496182	.472636	.447966	.422244
152	.513459	.488695	.462739	.435668	.407563	.378506
154	.480235	.451734	.422132	.391519	.359985	.327625
156	.439591	.407302	.374031	.339878	.304946	.269340
158	.391077	.354965	.318018	.280348	.242072	.203305
160	.334111	.294153	.253539	.212396	.170851	.129031
162	.267905	.224086	.179828	.135271	.090554	.045816
164	.191349	.143657	.095785	.047886	.000113	-.047385
166	.102812	.051227	-.000228	-.051388	-.102087	-.152165
168	-.000204	-.055727	-.110749	-.165092	-.218577	-.271033
170	-.121748	-.181304	-.239912	-.297377	-.353510	-.408127
172	-.268855	-.332650	-.394941	-.455518	-.514179	-.570729
174	-.455130	-.523598	-.589843	-.653638	-.714768	-.773028
176	-.711851	-.785980	-.856877	-.924297	-.988007	-1.047793
178	-1.140554	-1.223178	-1.300862	-1.373332	-1.440337	-1.501648
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$P_\nu(\cos \theta)$					
ν		2.50	2.52	2.54	2.56	2.58	2.60
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.997336	.997299	.997263	.997225	.997188	.997150	.997112
4	.989364	.989218	.989072	.988923	.988775	.988625	.988475
6	.976144	.975817	.975489	.975159	.974826	.974491	.974154
8	.957772	.957197	.956618	.956036	.955451	.954861	.954268
10	.934384	.933496	.932603	.931705	.930801	.929891	.928975
12	.906152	.904893	.903625	.902350	.901068	.899778	.898481
14	.873286	.871600	.869905	.868200	.866486	.864762	.863029
16	.836026	.833868	.831698	.829517	.827324	.825119	.822902
18	.794648	.791978	.789295	.786598	.783887	.781164	.778428
20	.749456	.746244	.743016	.739773	.736516	.733244	.729957
22	.700782	.697005	.693212	.689403	.685578	.681737	.677880
24	.648985	.644630	.640260	.635873	.631470	.627051	.622616
26	.594443	.589509	.584559	.579593	.574613	.569616	.564602
28	.537557	.532050	.526530	.520996	.515447	.509885	.504308
30	.478743	.472683	.466610	.460526	.454432	.448326	.442207
32	.418432	.411845	.405250	.398647	.392038	.385422	.378799
34	.357063	.349988	.342910	.335830	.328748	.321665	.314571
36	.295083	.287568	.280056	.272549	.265048	.257553	.250062
38	.232942	.225044	.217159	.209287	.201428	.193584	.185744
40	.171091	.162877	.154686	.146518	.138374	.130254	.122147
42	.109975	.101522	.093102	.084716	.076366	.068052	.059753
44	.050036	.041425	.032860	.024343	.015875	.007456	-.000923
46	-.008297	-.016975	-.025593	-.034149	-.042642	-.051069	-.059420
48	-.064609	-.073259	-.081834	-.090330	-.098747	-.107083	-.115338
50	-.118500	-.127022	-.135451	-.143785	-.152022	-.160161	-.168201
52	-.169590	-.177880	-.186058	-.194123	-.202073	-.209906	-.217622
54	-.217523	-.225473	-.233329	-.240981	-.248534	-.255993	-.263357
56	-.261966	-.269469	-.276822	-.284024	-.291072	-.297966	-.304795
58	-.302615	-.309564	-.316343	-.322950	-.329384	-.335644	-.341829
60	-.339198	-.345486	-.351584	-.357491	-.363204	-.368724	-.374150
62	-.371472	-.376997	-.382311	-.387414	-.392306	-.396985	-.401451
64	-.399232	-.403893	-.408326	-.412528	-.416501	-.420242	-.423851
66	-.422304	-.426010	-.429468	-.432679	-.435642	-.438358	-.440827
68	-.440556	-.4433219	-.445618	-.447754	-.449627	-.451238	-.452685
70	-.453892	-.455434	-.456698	-.457684	-.458395	-.458830	-.459089
72	-.462253	-.462607	-.462669	-.462442	-.461929	-.461130	-.460054
74	-.465623	-.464730	-.463536	-.462044	-.460258	-.458179	-.455817
76	-.464024	-.461837	-.459344	-.456548	-.453453	-.450062	-.446385
78	-.457515	-.454003	-.450182	-.446056	-.441629	-.436908	-.431901
80	-.446198	-.441342	-.436177	-.430709	-.424945	-.418890	-.412554
82	-.430211	-.424006	-.417497	-.410693	-.403599	-.396224	-.388577
84	-.409731	-.402186	-.394349	-.386227	-.377830	-.369165	-.360241
86	-.384967	-.376110	-.366976	-.357574	-.347914	-.338005	-.327857
88	-.356168	-.346041	-.335657	-.325027	-.314162	-.303074	-.291783
90	-.323611	-.312273	-.300704	-.288916	-.276921	-.264733	-.252362

		$P_\nu(\cos \theta)$					
ν		2.50	2.52	2.54	2.56	2.58	2.60
θ							
90		-.323611	-.312273	-.300704	-.288916	-.276921	-.264733
92		-.287606	-.275132	-.262458	-.249598	-.236566	-.223375
94		-.248492	-.234973	-.221291	-.207461	-.193499	-.179420
96		-.206631	-.192174	-.177597	-.162917	-.148149	-.133310
98		-.162410	-.147138	-.131795	-.116397	-.100963	-.085509
100		-.116238	-.100288	-.084321	-.068354	-.052406	-.036495
102		-.068537	-.052062	-.035627	-.019253	-.002958	.013237
104		-.019749	-.002912	.013819	.030427	.046891	.063189
106		.029676	.046698	.063547	.080204	.096647	.112855
108		.079282	.096301	.113077	.129587	.145811	.161729
110		.128605	.145425	.161926	.178087	.193887	.209306
112		.177179	.193596	.209616	.225218	.240383	.255091
114		.224542	.240345	.255672	.270503	.284818	.298598
116		.270236	.285211	.299629	.313471	.326720	.339358
118		.313812	.327740	.341032	.353669	.365637	.376917
120		.354829	.367493	.379442	.390660	.401132	.410845
122		.392862	.404046	.414438	.424024	.432792	.440733
124		.427502	.436993	.445618	.453367	.460230	.466202
126		.458359	.465949	.472605	.478318	.483085	.486902
128		.485062	.490552	.495043	.498534	.501024	.502513
130		.507264	.510463	.512608	.513701	.513746	.512749
132		.524641	.525370	.524999	.523533	.520982	.517359
134		.536893	.534989	.531945	.527776	.522497	.516126
136		.543747	.539059	.533206	.526208	.518086	.508867
138		.544953	.537349	.528567	.518634	.507579	.495434
140		.540285	.529652	.517842	.504891	.490834	.475711
142		.529539	.515785	.500871	.484841	.467739	.449612
144		.512529	.495584	.477514	.458371	.438207	.417078
146		.489086	.468903	.447649	.425383	.402169	.378070
148		.459045	.435602	.411163	.385796	.359572	.332564
150		.422244	.395546	.367946	.339525	.310363	.280540
152		.378506	.348582	.317878	.286482	.254483	.221972
154		.327624	.294533	.260807	.226545	.191845	.156808
156		.269340	.233167	.196533	.159546	.122315	.084947
158		.203305	.164163	.124766	.085229	.045670	.006206
160		.129031	.087064	.045079	.003200	-.038444	-.079730
162		.045816	.001195	-.043169	-.087143	-.130593	-.173386
164		-.047385	-.094458	-.140960	-.186746	-.231675	-.275609
166		-.152165	-.201461	-.249819	-.297088	-.343120	-.387772
168		-.271033	-.322290	-.372183	-.420554	-.467251	-.512125
170		-.408127	-.461049	-.512104	-.561129	-.607967	-.652469
172		-.570729	-.624981	-.676757	-.725890	-.772220	-.815600
174		-.773028	-.828223	-.880170	-.928698	-.973362	-1.014885
176		-1.047793	-1.103452	-1.154799	-1.201664	-1.243896	-1.281359
178		-1.501648	-1.557054	-1.606372	-1.649437	-1.686113	-1.716285
180		-∞	-∞	-∞	-∞	-∞	-∞

		$P_\nu(\cos \theta)$					
ν	2.60	2.62	2.64	2.66	2.68	2.70	
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	
2	.997150	.997113	.997075	.997036	.996997	.996959	
4	.988625	.988474	.988323	.988170	.988016	.987862	
6	.974491	.974154	.973815	.973474	.973131	.972786	
8	.954861	.954268	.953672	.953071	.952467	.951860	
10	.929891	.928976	.928056	.927130	.926199	.925262	
12	.899778	.898481	.897176	.895864	.894545	.893218	
14	.864762	.863028	.861285	.859533	.857771	.856000	
16	.825119	.822903	.820675	.818436	.816186	.813924	
18	.781164	.778427	.775676	.772913	.770137	.767348	
20	.733244	.729956	.726655	.723339	.720009	.716665	
22	.681737	.677881	.674010	.670123	.666222	.662306	
24	.627051	.622617	.618167	.613703	.609223	.604729	
26	.569616	.564606	.559580	.554541	.549487	.544420	
28	.509885	.504310	.498723	.493123	.487511	.481888	
30	.448326	.442211	.436086	.429952	.423809	.417659	
32	.385422	.378800	.372174	.365543	.358908	.352269	
34	.321665	.314583	.307501	.300421	.293343	.286267	
36	.257553	.250065	.242586	.235115	.227653	.220203	
38	.193584	.185757	.177946	.170153	.162378	.154624	
40	.130254	.122161	.114096	.106058	.098050	.090073	
42	.068052	.059777	.051541	.043346	.035192	.027081	
44	.007456	-.000910	-.009224	-.017484	-.025689	-.033837	
46	-.051069	-.059431	-.067725	-.075950	-.084104	-.092187	
48	-.107083	-.115337	-.123506	-.131591	-.139589	-.147499	
50	-.160161	-.168200	-.176138	-.183974	-.191706	-.199332	
52	-.209906	-.217622	-.225219	-.232695	-.240049	-.247279	
54	-.255953	-.263235	-.270379	-.277383	-.284247	-.290968	
56	-.297966	-.304703	-.311283	-.317705	-.323967	-.330068	
58	-.335644	-.341728	-.347636	-.353366	-.358917	-.364289	
60	-.368724	-.374050	-.379180	-.384114	-.388850	-.393389	
62	-.396985	-.401450	-.405702	-.409740	-.413563	-.417170	
64	-.420242	-.423753	-.427033	-.430082	-.432900	-.435487	
66	-.438358	-.440828	-.443050	-.445027	-.446757	-.448243	
68	-.451238	-.452587	-.453676	-.454506	-.455077	-.455392	
70	-.458830	-.458992	-.458882	-.458502	-.457855	-.456940	
72	-.461130	-.460049	-.458687	-.457048	-.455134	-.452947	
74	-.458179	-.455812	-.453159	-.450223	-.447009	-.443520	
76	-.450062	-.446379	-.442409	-.438156	-.433625	-.428820	
78	-.436908	-.431896	-.426599	-.421023	-.415173	-.409055	
80	-.418890	-.412551	-.405933	-.399044	-.391890	-.384478	
82	-.396224	-.388575	-.380659	-.372485	-.364059	-.355391	
84	-.369165	-.360240	-.351066	-.341651	-.332004	-.322134	
86	-.338005	-.327858	-.317482	-.306888	-.296087	-.285088	
88	-.303074	-.291772	-.280269	-.268577	-.256706	-.244669	
90	-.264733	-.252363	-.239825	-.227130	-.214293	-.201325	

		$P_\nu(\cos \theta)$				
ν	2.60	2.62	2.64	2.66	2.68	2.70
θ						
90	-.264733	-.252363	-.239825	-.227130	-.214293	-.201325
92	-.223375	-.210040	-.196574	-.182992	-.169307	-.155533
94	-.179420	-.165238	-.150970	-.136629	-.122231	-.107792
96	-.133310	-.118417	-.103485	-.088531	-.073572	-.058622
98	-.085509	-.070053	-.054613	-.039206	-.023848	-.008556
100	-.036495	-.020641	-.004860	.010828	.026407	.041859
102	.013237	.029315	.045256	.061042	.076655	.092076
104	.063189	.079304	.095215	.110904	.126353	.141543
106	.112855	.128811	.144492	.159882	.174962	.189713
108	.161729	.177320	.192566	.207449	.221948	.236049
110	.209306	.224324	.238923	.253084	.266791	.280026
112	.255091	.269322	.283059	.296285	.308983	.321138
114	.298598	.311827	.324487	.336562	.348038	.358900
116	.339358	.351369	.362738	.373450	.383493	.392855
118	.376917	.387498	.397365	.406507	.414913	.422573
120	.410845	.419787	.427948	.435319	.441892	.447661
122	.440733	.447837	.454096	.459506	.464061	.467759
124	.466202	.471276	.475449	.478719	.481085	.482549
126	.486902	.489767	.491682	.492648	.492669	.491751
128	.502513	.503005	.502505	.501020	.498559	.495132
130	.512749	.510719	.507666	.503603	.498542	.492501
132	.517359	.512678	.506953	.500203	.492449	.483712
134	.516126	.508683	.500190	.490671	.480153	.468664
136	.508867	.498576	.487242	.474896	.461571	.447301
138	.495434	.482233	.468011	.452806	.436659	.419611
140	.475711	.459563	.442434	.424368	.405414	.385620
142	.449612	.430510	.410482	.389584	.367869	.345394
144	.417078	.395042	.372157	.348485	.324088	.299030
146	.378070	.353151	.327481	.301128	.274162	.246655
148	.332564	.304847	.276495	.247588	.218202	.188415
150	.280540	.250141	.219248	.187948	.156326	.124467
152	.221972	.189042	.155783	.122290	.088654	.054968
154	.156808	.121533	.086120	.050670	.015281	-.019945
156	.084947	.047551	.010235	-.026895	-.063733	-.100175
158	.006206	-.033047	-.071975	-.110466	-.148408	-.185692
160	-.079730	-.120537	-.160741	-.200227	-.238877	-.276580
162	-.173386	-.215393	-.256490	-.296552	-.335463	-.373107
164	-.275609	-.318413	-.359959	-.400120	-.438778	-.475816
166	-.387772	-.430906	-.472389	-.512096	-.549907	-.585708
168	-.512125	-.555038	-.595856	-.634455	-.670716	-.704532
170	-.652469	-.694495	-.733915	-.770606	-.804457	-.835367
172	-.815600	-.855892	-.892971	-.926722	-.957045	-.983849
174	-1.014885	-1.052268	-1.085686	-1.115037	-1.140234	-1.161206
176	-1.281359	-1.313937	-1.341531	-1.364062	-1.381467	-1.393705
178	-1.716285	-1.739864	-1.756786	-1.767011	-1.770526	-1.767342
180	-∞	-∞	-∞	-∞	-∞	-∞

$P_\nu(\cos \theta)$

ν	2.70	2.72	2.74	2.76	2.78	2.80
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.996959	.996920	.996880	.996841	.996801	.996761
4	.987862	.987706	.987550	.987392	.987234	.987075
6	.972786	.972439	.972089	.971737	.971384	.971028
8	.951860	.951249	.950634	.950016	.949394	.948769
10	.925262	.924320	.923372	.922420	.921462	.920498
12	.893218	.891884	.890542	.889193	.887837	.886473
14	.856000	.854219	.852429	.850630	.848822	.847004
16	.813924	.811651	.809367	.807072	.804765	.802448
18	.767348	.764546	.761730	.758903	.756063	.753210
20	.716665	.713307	.709934	.706548	.703149	.699735
22	.662306	.658375	.654429	.650470	.646496	.642509
24	.604729	.600220	.595697	.591160	.586610	.582046
26	.544420	.539340	.534247	.529141	.524023	.518892
28	.481888	.476254	.470610	.464955	.459290	.453616
30	.417659	.411500	.405335	.399163	.392985	.386801
32	.352269	.345628	.338985	.332339	.325693	.319047
34	.286267	.279195	.272127	.265065	.258007	.250956
36	.220203	.212763	.205336	.197921	.190520	.183134
38	.154624	.146890	.139177	.131487	.123821	.116179
40	.090073	.082127	.074213	.066334	.058489	.050679
42	.027081	.019014	.010991	.003016	-.004912	-.012792
44	-.033837	-.041927	-.049959	-.057930	-.065839	-.073686
46	-.092187	-.100197	-.108132	-.115992	-.123775	-.131479
48	-.147499	-.155319	-.163049	-.170687	-.178231	-.185681
50	-.199332	-.206852	-.214263	-.221566	-.228757	-.235836
52	-.247279	-.254385	-.261364	-.268216	-.274939	-.281532
54	-.290968	-.297546	-.303979	-.310267	-.316408	-.322401
56	-.330068	-.336006	-.341782	-.347394	-.352840	-.358121
58	-.364289	-.369480	-.374490	-.379318	-.383963	-.388425
60	-.393389	-.397729	-.401870	-.405812	-.409555	-.413097
62	-.417170	-.420563	-.423740	-.426702	-.429448	-.431979
64	-.435487	-.437844	-.439970	-.441866	-.443532	-.444970
66	-.448243	-.449484	-.450482	-.451238	-.451752	-.452026
68	-.455392	-.455451	-.455256	-.454808	-.454110	-.453163
70	-.456940	-.455762	-.454322	-.452623	-.450666	-.448455
72	-.452947	-.450491	-.447768	-.444782	-.441537	-.438035
74	-.443520	-.439760	-.435733	-.431443	-.426893	-.422090
76	-.428820	-.423747	-.418409	-.412812	-.406962	-.400863
78	-.409055	-.402674	-.396037	-.389150	-.382019	-.374651
80	-.384478	-.376815	-.368908	-.360765	-.352392	-.343797
82	-.355391	-.346487	-.337358	-.328010	-.318452	-.308694
84	-.322134	-.312050	-.301763	-.291281	-.280614	-.269773
86	-.285088	-.273902	-.262541	-.251014	-.239332	-.227507
88	-.244669	-.232477	-.220142	-.207677	-.195092	-.182401
90	-.201325	-.188240	-.175051	-.161771	-.148412	-.134988

		$P_\nu(\cos \theta)$					
ν		2.70	2.72	2.74	2.76	2.78	2.80
θ							
90		-.201325	-.188240	-.175051	-.161770	-.148412	-.134988
92		-.155533	-.141684	-.127776	-.113820	-.099833	-.085826
94		-.107792	-.093326	-.078848	-.064373	-.049917	-.035493
96		-.058622	-.043698	-.028815	-.013991	.000760	.015423
98		-.008556	.006651	.021760	.036753	.051614	.066327
100		.041859	.057167	.072314	.087282	.102056	.116620
102		.092076	.107288	.122274	.137017	.151501	.165709
104		.141543	.156456	.171076	.185385	.199368	.213008
106		.189713	.204118	.218160	.231823	.245092	.257950
108		.236049	.249732	.262983	.275786	.288125	.299987
110		.280026	.292773	.305018	.316745	.327941	.338594
112		.321138	.332735	.343760	.354201	.364045	.373282
114		.358900	.369136	.378734	.387682	.395972	.403593
116		.392855	.401525	.409493	.416752	.423293	.429110
118		.422573	.429481	.435628	.441010	.445621	.449459
120		.447661	.452621	.456767	.460098	.462613	.464313
122		.467759	.470599	.472580	.473703	.473973	.473393
124		.482549	.483112	.482780	.481558	.479453	.476474
126		.491751	.489901	.487128	.483442	.478856	.473383
128		.495132	.490752	.485432	.479188	.472039	.464002
130		.492501	.485496	.477549	.468679	.458910	.448267
132		.483712	.474015	.463384	.451847	.439432	.426171
134		.468664	.456233	.442893	.428677	.413621	.397760
136		.447301	.432124	.416078	.399203	.381540	.363133
138		.419611	.401706	.382989	.363506	.343307	.322440
140		.385620	.365037	.343717	.321714	.299082	.275878
142		.345394	.322216	.298396	.273993	.249069	.223687
144		.299030	.273376	.247194	.220549	.193509	.166144
146		.246655	.218680	.190309	.161616	.132675	.103562
148		.188415	.158309	.127961	.097453	.066864	.036274
150		.124467	.092458	.060385	.028333	-.003612	-.035366
152		.054968	.021324	-.012184	-.045469	-.078438	-.111005
154		-.019945	-.054915	-.089528	-.123692	-.157312	-.190297
156		-.100175	-.136118	-.171462	-.206107	-.239959	-.272923
158		-.185692	-.222211	-.257862	-.292545	-.326162	-.358620
160		-.276580	-.313227	-.348712	-.382935	-.415798	-.447208
162		-.373107	-.409373	-.444158	-.477362	-.508888	-.538649
164		-.475816	-.511125	-.544604	-.576154	-.605685	-.633114
166		-.585708	-.619393	-.650863	-.680028	-.706803	-.731115
168		-.704532	-.735801	-.764433	-.790344	-.813462	-.833725
170		-.835367	-.863245	-.888010	-.909594	-.927937	-.942992
172		-.983849	-1.007056	-1.026603	-1.042440	-1.054527	-1.062841
174		-1.161206	-1.177897	-1.190266	-1.198289	-1.201957	-1.201274
176		-1.393705	-1.400752	-1.402604	-1.399276	-1.390801	-1.377232
178		-1.767342	-1.757494	-1.741045	-1.718079	-1.688706	-1.653059
180		-∞	-∞	-∞	-∞	-∞	-∞

		$P_\nu(\cos \theta)$				
ν	2.80	2.82	2.84	2.86	2.88	2.90
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.996761	.996721	.996680	.996639	.996599	.996558
4	.987075	.986914	.986753	.986591	.986427	.986264
6	.971028	.970671	.970310	.969949	.969585	.969218
8	.948769	.948139	.947507	.946871	.946231	.945587
10	.920498	.919529	.918555	.917575	.916590	.915600
12	.886473	.885102	.883724	.882339	.880946	.879547
14	.847004	.845177	.843341	.841496	.839641	.837778
16	.802448	.800120	.797780	.795430	.793069	.790698
18	.753210	.750345	.747467	.744577	.741675	.738761
20	.699735	.696309	.692869	.689415	.685949	.682470
22	.642509	.638507	.634492	.630464	.626422	.622368
24	.582046	.577469	.572878	.568275	.563660	.559031
26	.518892	.513750	.508597	.503432	.498256	.493070
28	.453616	.447932	.442240	.436539	.430831	.425115
30	.386801	.380612	.374419	.368221	.362020	.355815
32	.319047	.312401	.305755	.299111	.292469	.285829
34	.250956	.243912	.236876	.229848	.222829	.215820
36	.183134	.175763	.168408	.161070	.153750	.146448
38	.116179	.108562	.100971	.093407	.085871	.078364
40	.050679	.042906	.035171	.027475	.019818	.012202
42	-.012792	-.020622	-.028402	-.036130	-.043805	-.051426
44	-.073686	-.081469	-.089187	-.096839	-.104423	-.111939
46	-.131479	-.139105	-.146650	-.154113	-.161493	-.168789
48	-.185681	-.193035	-.200291	-.207450	-.214509	-.221467
50	-.235836	-.242803	-.249655	-.256391	-.263011	-.269513
52	-.281532	-.287995	-.294325	-.300523	-.306586	-.312513
54	-.322401	-.328245	-.333938	-.339482	-.344873	-.350112
56	-.358121	-.363235	-.368181	-.372959	-.377568	-.382008
58	-.388425	-.392702	-.396795	-.400703	-.404426	-.407963
60	-.413097	-.416439	-.419580	-.422521	-.425261	-.427801
62	-.431979	-.434295	-.436396	-.438282	-.439954	-.441412
64	-.444970	-.446179	-.447161	-.447917	-.448446	-.448752
66	-.452026	-.452061	-.451858	-.451420	-.450746	-.449840
68	-.453163	-.451969	-.450530	-.448849	-.446927	-.444767
70	-.448455	-.445993	-.443281	-.440324	-.437123	-.433683
72	-.438035	-.434280	-.430276	-.426026	-.421535	-.416807
74	-.422090	-.417036	-.411737	-.406197	-.400421	-.394415
76	-.400863	-.394522	-.387943	-.381133	-.374098	-.366842
78	-.374651	-.367052	-.359228	-.351187	-.342935	-.334480
80	-.343797	-.334989	-.325974	-.316760	-.307356	-.297769
82	-.308694	-.298743	-.288609	-.278300	-.267826	-.257196
84	-.269773	-.258766	-.247605	-.236298	-.224856	-.213289
86	-.227507	-.215549	-.203470	-.191280	-.178990	-.166612
88	-.182401	-.169614	-.156744	-.143804	-.130804	-.117758
90	-.134988	-.121512	-.107996	-.094454	-.080899	-.067343

$P_\nu(\cos \theta)$

ν	2.80	2.82	2.84	2.86	2.88	2.90
θ						
90	-.134988	-.121511	-.107996	-.094454	-.080899	-.067343
92	-.085826	-.071815	-.057814	-.043835	-.029893	-.016001
94	-.035493	-.021117	-.006803	.007434	.021581	.035624
96	.015423	.029982	.044423	.058730	.072888	.086884
98	.066327	.080876	.095247	.109423	.123390	.137134
100	.116620	.130957	.145053	.158891	.172458	.185739
102	.165709	.179625	.193235	.206524	.219476	.232079
104	.213008	.226291	.239201	.251725	.263848	.275557
106	.257950	.270384	.282380	.293923	.305002	.315605
108	.299987	.311358	.322225	.332576	.342401	.351689
110	.338594	.348692	.358222	.367176	.375542	.383314
112	.373282	.381901	.389894	.397251	.403967	.410033
114	.403593	.410539	.416802	.422377	.427260	.431446
116	.429110	.434199	.438555	.442176	.445061	.447208
118	.449459	.452522	.454809	.456322	.457061	.457030
120	.464313	.465198	.465273	.464542	.463010	.460685
122	.473393	.471970	.469710	.466623	.462718	.458007
124	.476474	.472633	.467940	.462409	.456055	.448895
126	.473383	.467039	.459841	.451807	.442956	.433310
128	.464002	.455098	.445350	.434781	.423417	.411283
130	.448267	.436775	.424464	.411361	.397497	.382905
132	.426171	.412094	.397236	.381633	.365319	.348333
134	.397760	.381134	.363781	.345744	.327063	.307783
136	.363133	.344026	.324265	.303897	.282969	.261532
138	.322440	.300957	.278909	.256349	.233331	.209909
140	.275878	.252159	.227982	.203407	.178492	.153298
142	.223687	.197909	.171799	.145422	.118842	.092123
144	.166144	.138523	.110713	.082786	.054810	.026854
146	.103562	.074349	.045112	.015925	-.013139	-.042008
148	.036274	.005763	-.024591	-.054711	-.084519	-.113939
150	-.035366	-.066845	-.097968	-.128653	-.158821	-.188393
152	-.111005	-.143081	-.174583	-.205426	-.235530	-.264817
154	-.190297	-.222557	-.254006	-.284560	-.314139	-.342663
156	-.272923	-.304910	-.335833	-.365608	-.394155	-.421399
158	-.358620	-.389828	-.419702	-.448160	-.475126	-.500528
160	-.447208	-.477080	-.505330	-.531880	-.556661	-.579605
162	-.538649	-.566561	-.592547	-.616537	-.638465	-.658274
164	-.633114	-.658364	-.681367	-.702060	-.720389	-.736308
166	-.731115	-.752897	-.772089	-.788642	-.802515	-.813678
168	-.833725	-.851078	-.865477	-.876890	-.885292	-.890671
170	-.942992	-.954725	-.963111	-.968137	-.969801	-.968116
172	-1.062841	-1.067368	-1.068112	-1.065087	-1.058321	-1.047854
174	-1.201274	-1.196263	-1.186961	-1.173419	-1.155707	-1.133903
176	-1.377232	-1.358638	-1.335109	-1.306750	-1.273686	-1.236057
178	-1.653059	-1.611295	-1.563592	-1.510151	-1.451193	-1.386958
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$P_\nu(\cos \theta)$				
ν	2.90	2.92	2.94	2.96	2.98	3.00
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.996558	.996516	.996474	.996432	.996390	.996347
4	.986264	.986098	.985932	.985765	.985597	.985429
6	.969218	.968850	.968479	.968107	.967733	.967356
8	.945587	.944940	.944290	.943635	.942977	.942316
10	.915600	.914604	.913603	.912597	.911585	.910568
12	.879547	.878140	.876726	.875305	.873876	.872441
14	.837778	.835905	.834024	.832134	.830234	.828326
16	.790698	.788315	.785922	.783519	.781104	.778680
18	.738761	.735835	.732897	.729947	.726985	.724012
20	.682470	.678978	.675474	.671956	.668426	.664884
22	.622368	.618300	.614220	.610127	.606022	.601904
24	.559031	.554391	.549739	.545076	.540401	.535715
26	.493070	.487874	.482667	.477452	.472226	.466992
28	.425115	.419392	.413662	.407925	.402183	.396435
30	.355815	.349607	.343397	.337186	.330973	.324759
32	.285829	.279192	.272559	.265930	.259306	.252687
34	.215820	.208821	.201833	.194858	.187894	.180944
36	.146448	.139166	.131904	.124662	.117442	.110245
38	.078364	.070887	.063441	.056026	.048643	.041293
40	.012202	.004628	-.002903	-.010391	-.017835	-.025233
42	-.051426	-.058992	-.066502	-.073955	-.081350	-.088686
44	-.111939	-.119385	-.126761	-.134065	-.141296	-.148454
46	-.168789	-.175999	-.183124	-.190161	-.197109	-.203968
48	-.221467	-.228324	-.235078	-.241727	-.248272	-.254711
50	-.269513	-.275896	-.282159	-.288302	-.294322	-.300220
52	-.312513	-.318305	-.323960	-.329476	-.334854	-.340092
54	-.350112	-.355197	-.360128	-.364905	-.369525	-.373990
56	-.382008	-.386277	-.390376	-.394304	-.398060	-.401644
58	-.407963	-.411314	-.414479	-.417457	-.420250	-.422856
60	-.427801	-.430141	-.432280	-.434219	-.435959	-.437499
62	-.441412	-.442658	-.443691	-.444512	-.445123	-.445524
64	-.448752	-.448833	-.448693	-.448332	-.447751	-.446953
66	-.449840	-.448703	-.447337	-.445744	-.443925	-.441884
68	-.444767	-.442371	-.439743	-.436884	-.433798	-.430488
70	-.433683	-.430007	-.426098	-.421959	-.417595	-.413008
72	-.416807	-.411845	-.406655	-.401240	-.395605	-.389754
74	-.394415	-.388182	-.381730	-.375061	-.368183	-.361101
76	-.366842	-.359373	-.351697	-.343819	-.335746	-.327485
78	-.334480	-.325828	-.316986	-.307963	-.298764	-.289398
80	-.297769	-.288007	-.278079	-.267994	-.257758	-.247381
82	-.257196	-.246418	-.235502	-.224458	-.213294	-.202020
84	-.213289	-.201607	-.189821	-.177940	-.165976	-.153937
86	-.166612	-.154157	-.141636	-.129059	-.116439	-.103786
88	-.117758	-.104677	-.091573	-.078458	-.065344	-.052243
90	-.067343	-.053799	-.040281	-.026799	-.013368	-.000000

		$P_\nu(\cos \theta)$					
ν		2.90	2.92	2.94	2.96	2.98	3.00
θ							
90		-.067343	-.053799	-.040280	-.026799	-.013368	.000000
92		-.016001	-.002172	.011579	.025241	.038800	.052243
94		.035624	.049547	.063339	.076985	.090471	.103786
96		.086884	.100703	.114331	.127755	.140961	.153937
98		.137134	.150641	.163896	.176886	.189599	.202020
100		.185739	.198720	.211388	.223729	.235731	.247381
102		.232079	.244319	.256183	.267659	.278734	.289398
104		.275557	.286841	.297687	.308083	.318019	.327486
106		.315605	.325720	.335337	.344445	.353036	.361101
108		.351689	.360429	.368614	.376234	.383283	.389754
110		.383314	.390483	.397043	.402986	.408309	.413008
112		.410033	.415446	.420201	.424294	.427724	.430488
114		.431446	.434934	.437721	.439808	.441195	.441884
116		.447208	.448619	.449295	.449240	.448457	.446953
118		.457030	.456234	.454678	.452369	.449314	.445524
120		.460685	.457576	.453691	.449041	.443640	.437499
122		.458007	.452503	.446220	.439173	.431379	.422856
124		.448895	.440944	.432223	.422752	.412551	.401644
126		.433310	.422892	.411726	.399835	.387248	.373990
128		.411283	.398408	.384820	.370551	.355631	.340092
130		.382905	.367618	.351669	.335096	.317933	.300220
132		.348333	.330713	.312500	.293734	.274457	.254711
134		.307783	.287947	.267602	.246792	.225565	.203968
136		.261532	.239633	.217325	.194658	.171683	.148454
138		.209909	.186139	.162075	.137774	.113292	.088686
140		.153298	.127883	.102309	.076636	.050924	.025233
142		.092123	.065331	.038529	.011782	-.014846	-.041293
144		.026854	-.001012	-.028723	-.056209	-.083405	-.110245
146		-.042008	-.070610	-.098873	-.126729	-.154108	-.180944
148		-.113939	-.142898	-.171322	-.199141	-.226285	-.252687
150		-.188393	-.217294	-.245452	-.272794	-.299252	-.324759
152		-.264817	-.293210	-.320637	-.347028	-.372315	-.396435
154		-.342663	-.370059	-.396255	-.421185	-.444784	-.466992
156		-.421399	-.447269	-.471696	-.494617	-.515975	-.535715
158		-.500528	-.524297	-.546374	-.566700	-.585225	-.601904
160		-.579605	-.600652	-.619748	-.636846	-.651903	-.664885
162		-.658274	-.675915	-.691342	-.704519	-.715416	-.724012
164		-.736308	-.749779	-.760769	-.769259	-.775231	-.778680
166		-.813678	-.822106	-.827785	-.830711	-.830887	-.828326
168		-.890671	-.893022	-.892353	-.888680	-.882031	-.872441
170		-.968116	-.963101	-.954789	-.943225	-.928463	-.910569
172		-1.047854	-1.033740	-1.016046	-.994848	-.970238	-.942316
174		-1.133903	-1.108104	-1.078421	-1.044975	-1.007904	-.967356
176		-1.236057	-1.194017	-1.147742	-1.097416	-1.043240	-.985429
178		-1.386958	-1.317707	-1.243718	-1.165285	-1.082720	-.996347
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	-1.000000

		$P_\nu(\cos \theta)$				
ν	3.00	3.02	3.04	3.06	3.08	3.10
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.996347	.996305	.996262	.996219	.996175	.996132
4	.985429	.985258	.985088	.984916	.984743	.984570
6	.967356	.966977	.966596	.966213	.965828	.965441
8	.942316	.941651	.940983	.940311	.939635	.938956
10	.910568	.909546	.908519	.907486	.906448	.905405
12	.872441	.870998	.869548	.868092	.866628	.865157
14	.828326	.826409	.824483	.822548	.820605	.818653
16	.778680	.776244	.773799	.771343	.768877	.766401
18	.724012	.721026	.718030	.715022	.712003	.708972
20	.664884	.661330	.657764	.654186	.650596	.646994
22	.601904	.597775	.593633	.589480	.585316	.581140
24	.535715	.531018	.526310	.521592	.516864	.512126
26	.466992	.461749	.456498	.451239	.445972	.440698
28	.396435	.390682	.384924	.379162	.373396	.367626
30	.324759	.318545	.312331	.306118	.299906	.293695
32	.252687	.246075	.239468	.232869	.226278	.219695
34	.180944	.174007	.167085	.160179	.153288	.146413
36	.110245	.103071	.095921	.088796	.081696	.074622
38	.041293	.033978	.026697	.019453	.012245	.005075
40	-.025233	-.032585	-.039889	-.047145	-.054351	-.061508
42	-.088686	-.095962	-.103176	-.110329	-.117418	-.124444
44	-.148454	-.155536	-.162543	-.169472	-.176324	-.183097
46	-.203968	-.210736	-.217413	-.223997	-.230487	-.236883
48	-.254711	-.261043	-.267267	-.273382	-.279387	-.285282
50	-.300220	-.305994	-.311644	-.317168	-.322566	-.327836
52	-.340092	-.345190	-.350147	-.354962	-.359634	-.364163
54	-.373990	-.378299	-.382449	-.386443	-.390278	-.393955
56	-.401644	-.405057	-.408297	-.411364	-.414259	-.416981
58	-.422856	-.425276	-.427509	-.429557	-.431419	-.433096
60	-.437499	-.438841	-.439985	-.440931	-.441681	-.442234
62	-.445524	-.445716	-.445700	-.445477	-.445049	-.444417
64	-.446953	-.445938	-.444708	-.443265	-.441611	-.439748
66	-.441884	-.439621	-.437140	-.434444	-.431533	-.428412
68	-.430488	-.426956	-.423205	-.419239	-.415061	-.410675
70	-.413008	-.408203	-.403183	-.397952	-.392516	-.386877
72	-.389754	-.383692	-.377424	-.370955	-.364289	-.357432
74	-.361101	-.353820	-.346345	-.338684	-.330840	-.322822
76	-.327485	-.319043	-.310425	-.301638	-.292690	-.283587
78	-.289398	-.279873	-.270195	-.260372	-.250412	-.240324
80	-.247381	-.236872	-.226238	-.215488	-.204632	-.193676
82	-.202020	-.190645	-.179179	-.167632	-.156012	-.144329
84	-.153937	-.141835	-.129679	-.117480	-.105249	-.092995
86	-.103786	-.091111	-.078425	-.065740	-.053066	-.040414
88	-.052243	-.039166	-.026125	-.013132	-.000199	.012663
90	-.000000	.013293	.026500	.039608	.052606	.065480

		$P_\nu(\cos \theta)$					
ν		3.00	3.02	3.04	3.06	3.08	3.10
θ							
90		.000000	.013294	.026501	.039609	.052606	.065481
92		.052243	.065557	.078731	.091751	.104607	.117285
94		.103786	.116915	.129847	.142570	.155070	.167337
96		.153937	.166669	.179145	.191353	.203282	.214919
98		.202020	.214138	.225941	.237418	.248556	.259346
100		.247381	.258669	.269582	.280109	.290242	.299969
102		.289398	.299640	.309449	.318816	.327732	.336188
104		.327486	.336472	.344970	.352972	.360470	.367457
106		.361101	.368632	.375623	.382066	.387957	.393290
108		.389754	.395641	.400940	.405646	.409756	.413267
110		.413008	.417078	.420518	.423325	.425501	.427044
112		.430488	.432586	.434019	.434789	.434897	.434347
114		.441884	.441877	.441179	.439794	.437728	.434987
116		.446953	.444732	.441803	.438174	.433855	.428856
118		.445524	.441007	.435776	.429843	.423222	.415927
120		.437499	.430635	.423061	.414796	.405856	.396261
122		.422856	.413622	.403698	.393105	.381865	.370002
124		.401644	.390054	.377806	.364926	.351440	.337376
126		.373990	.360092	.345582	.330490	.314849	.298691
128		.340092	.323969	.307296	.290108	.272441	.254332
130		.300220	.281994	.263294	.244160	.224634	.204756
132		.254711	.234540	.213988	.193099	.171919	.150491
134		.203968	.182049	.159857	.137440	.114847	.092128
136		.148454	.125021	.101438	.077757	.054031	.030312
138		.088686	.064011	.039323	.014678	-.009866	-.034258
140		.025233	-.000377	-.025848	-.051121	-.076137	-.100841
142		-.041293	-.067497	-.093395	-.118928	-.144037	-.168662
144		-.110245	-.136666	-.162603	-.187997	-.212787	-.236915
146		-.180944	-.207172	-.232730	-.257555	-.281589	-.304774
148		-.252687	-.278284	-.303012	-.326812	-.349626	-.371400
150		-.324759	-.349254	-.372675	-.394966	-.416073	-.435946
152		-.396435	-.419329	-.440939	-.461213	-.480103	-.497563
154		-.466992	-.487756	-.507023	-.524748	-.540887	-.555405
156		-.535715	-.553789	-.570154	-.584770	-.597605	-.608630
158		-.601904	-.616696	-.629567	-.640489	-.649438	-.656400
160		-.664885	-.675761	-.684511	-.691117	-.695571	-.697869
162		-.724012	-.730290	-.734242	-.735869	-.735175	-.732175
164		-.778680	-.779606	-.778021	-.773940	-.767390	-.758402
166		-.828326	-.823050	-.815089	-.804482	-.791277	-.775528
168		-.872441	-.859956	-.844632	-.826534	-.805735	-.782317
170		-.910569	-.889617	-.865695	-.838893	-.809330	-.777106
172		-.942316	-.911196	-.877000	-.839863	-.799926	-.757344
174		-.967356	-.923490	-.876479	-.826504	-.773757	-.718439
176		-.985429	-.924208	-.859818	-.792507	-.722532	-.650163
178		-.996347	-.906505	-.813545	-.717825	-.619718	-.519600
180	-1.000000	∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$					
ν	3.10	3.12	3.14	3.16	3.18	3.20	
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	
2	.996132	.996087	.996043	.995999	.995954	.995909	
4	.984570	.984395	.984219	.984043	.983865	.983687	
6	.965441	.965052	.964660	.964267	.963872	.963475	
8	.938956	.938273	.937587	.936898	.936204	.935508	
10	.905405	.904357	.903303	.902245	.901181	.900112	
12	.865157	.863679	.862195	.860703	.859205	.857699	
14	.818653	.816692	.814722	.812744	.810757	.808762	
16	.766401	.763914	.761418	.758911	.756395	.753868	
18	.708972	.705931	.702878	.699814	.696740	.693654	
20	.646994	.643381	.639756	.636121	.632473	.628815	
22	.581140	.576953	.572756	.568547	.564328	.560099	
24	.512126	.507378	.502621	.497854	.493079	.488294	
26	.440698	.435416	.430127	.424833	.419532	.414225	
28	.367626	.361852	.356076	.350298	.344517	.338735	
30	.293695	.287486	.281280	.275077	.268878	.262682	
32	.219695	.213121	.206556	.200001	.193457	.186924	
34	.146413	.139556	.132716	.125895	.119094	.112311	
36	.074622	.067576	.060557	.053566	.046605	.039674	
38	.005075	-.002057	-.009150	-.016202	-.023215	-.030185	
40	-.061508	-.068614	-.075667	-.082668	-.089615	-.096508	
42	-.124444	-.131405	-.138299	-.145128	-.151888	-.158580	
44	-.183097	-.189790	-.196402	-.202932	-.209380	-.215745	
46	-.236883	-.243183	-.249387	-.255494	-.261503	-.267412	
48	-.285282	-.291064	-.296735	-.302292	-.307735	-.313064	
50	-.327836	-.332980	-.337994	-.342880	-.347635	-.352261	
52	-.364163	-.368549	-.372791	-.376888	-.380840	-.384646	
54	-.393955	-.397473	-.400832	-.404031	-.407072	-.409952	
56	-.416981	-.419530	-.421907	-.424111	-.426143	-.428002	
58	-.433096	-.434587	-.435894	-.437017	-.437956	-.438712	
60	-.442234	-.442592	-.442756	-.442727	-.442505	-.442093	
62	-.444417	-.443582	-.442546	-.441310	-.439876	-.438246	
64	-.439748	-.437678	-.435402	-.432924	-.430244	-.427367	
66	-.428412	-.425083	-.421548	-.417811	-.413874	-.409740	
68	-.410675	-.406083	-.401289	-.396297	-.391111	-.385734	
70	-.386877	-.381040	-.375009	-.368789	-.362384	-.355800	
72	-.357432	-.350389	-.343165	-.335765	-.328195	-.320460	
74	-.322822	-.314633	-.306281	-.297772	-.289111	-.280306	
76	-.283587	-.274335	-.264943	-.255417	-.245763	-.235990	
78	-.240324	-.230113	-.219789	-.209360	-.198832	-.188215	
80	-.193676	-.182631	-.171505	-.160306	-.149044	-.137726	
82	-.144329	-.132592	-.120812	-.108997	-.097157	-.085301	
84	-.092995	-.080728	-.068460	-.056199	-.043956	-.031741	
86	-.040414	-.027794	-.015219	-.002697	.009759	.022141	
88	.012663	.025444	.038133	.050717	.063186	.075530	
90	.065480	.078221	.090817	.103255	.115527	.127620	

		$P_\nu(\cos \theta)$				
ν	3.10	3.12	3.14	3.16	3.18	3.20
θ						
90	.065481	.078221	.090817	.103256	.115527	.127620
92	.117285	.129775	.142064	.154142	.165998	.177622
94	.167337	.179359	.191124	.202623	.213844	.224778
96	.214919	.226255	.237277	.247977	.258343	.268367
98	.259346	.269776	.279838	.289522	.298819	.307720
100	.299969	.309281	.318171	.326629	.334647	.342220
102	.336188	.344176	.351690	.358722	.365266	.371318
104	.367457	.373927	.379874	.385294	.390183	.394536
106	.393290	.398061	.402268	.405907	.408976	.411476
108	.413267	.416179	.418490	.420200	.421310	.421821
110	.427044	.427955	.428238	.427895	.426929	.425346
112	.434347	.433144	.431292	.428798	.425669	.421913
114	.434987	.431581	.427517	.422805	.417456	.411481
116	.428856	.423188	.416865	.409900	.402308	.394103
118	.415927	.407973	.399378	.390159	.380334	.369923
120	.396261	.386030	.375185	.363747	.351738	.339183
122	.370002	.357539	.344503	.330918	.316812	.302212
124	.337376	.322764	.307632	.292011	.275932	.259427
126	.298691	.282049	.264957	.247449	.229561	.211328
128	.254332	.235819	.216939	.197732	.178237	.158492
130	.204756	.184569	.164113	.143432	.122569	.101566
132	.150491	.128864	.107081	.085189	.063233	.041260
134	.092128	.069330	.046505	.023699	.000962	-.021656
136	.030312	.006652	-.016897	-.040284	-.063459	-.086372
138	-.034258	-.058441	-.082362	-.105969	-.129209	-.152032
140	-.100841	-.125176	-.149088	-.172523	-.195428	-.217754
142	-.168662	-.192748	-.216241	-.239086	-.261232	-.282630
144	-.236915	-.260326	-.282965	-.304780	-.325722	-.345745
146	-.304774	-.327058	-.348387	-.368713	-.387989	-.406172
148	-.371400	-.392084	-.411628	-.429988	-.447121	-.462990
150	-.435946	-.454537	-.471804	-.487707	-.502211	-.515283
152	-.497563	-.513552	-.528035	-.540980	-.552358	-.562145
154	-.555405	-.568267	-.579446	-.588920	-.596669	-.602681
156	-.608630	-.617823	-.625165	-.630646	-.634257	-.636000
158	-.656400	-.661361	-.664319	-.665274	-.664232	-.661207
160	-.697869	-.698016	-.696021	-.691901	-.685678	-.677383
162	-.732175	-.726889	-.719346	-.709578	-.697628	-.683543
164	-.758402	-.747017	-.733284	-.717257	-.698998	-.678576
166	-.775528	-.757299	-.736663	-.713697	-.688487	-.661127
168	-.782317	-.756371	-.727995	-.697297	-.664388	-.629391
170	-.777106	-.742348	-.705186	-.665760	-.624214	-.580700
172	-.757344	-.712277	-.664893	-.615370	-.563890	-.510643
174	-.718439	-.660760	-.600937	-.539193	-.475759	-.410868
176	-.650163	-.575675	-.499349	-.421473	-.342340	-.262247
178	-.519600	-.417856	-.314875	-.211049	-.106772	-.002440
180	∞	∞	∞	∞	∞	∞

$P_\nu(\cos \theta)$						
ν	3.20	3.22	3.24	3.26	3.28	3.30
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.995909	.995864	.995819	.995773	.995727	.995681
4	.983687	.983507	.983327	.983146	.982964	.982780
6	.963475	.963075	.962674	.962270	.961864	.961456
8	.935508	.934807	.934103	.933396	.932685	.931971
10	.900112	.899037	.897958	.896873	.895784	.894688
12	.857699	.856186	.854667	.853141	.851608	.850068
14	.808762	.806758	.804746	.802725	.800696	.798658
16	.753868	.751332	.748786	.746231	.743665	.741089
18	.693654	.690558	.687452	.684334	.681206	.678068
20	.628815	.625146	.621466	.617776	.614075	.610363
22	.560099	.555859	.551609	.547350	.543080	.538801
24	.488294	.483501	.478701	.473892	.469075	.464250
26	.414225	.408912	.403595	.398272	.392945	.387613
28	.338735	.332951	.327167	.321382	.315597	.309812
30	.262682	.256491	.250305	.244124	.237948	.231780
32	.186924	.180403	.173893	.167397	.160914	.154444
34	.112311	.105550	.098809	.092090	.085394	.078720
36	.039674	.032774	.025905	.019068	.012264	.005493
38	-.030185	-.037114	-.043999	-.050840	-.057636	-.064387
40	-.096508	-.103346	-.110127	-.116851	-.123517	-.130125
42	-.158580	-.165202	-.171754	-.178235	-.184644	-.190981
44	-.215745	-.222025	-.228220	-.234329	-.240351	-.246285
46	-.267412	-.273222	-.278931	-.284539	-.290044	-.295447
48	-.313064	-.318277	-.323374	-.328354	-.333216	-.337961
50	-.352261	-.356755	-.361118	-.365348	-.369447	-.373412
52	-.384646	-.388306	-.391821	-.395188	-.398410	-.401484
54	-.409952	-.412673	-.415234	-.417636	-.419877	-.421960
56	-.428002	-.429690	-.431205	-.432550	-.433723	-.434727
58	-.438712	-.439287	-.439679	-.439891	-.439923	-.439776
60	-.442093	-.441490	-.440698	-.439719	-.438554	-.437204
62	-.438246	-.436420	-.434402	-.432193	-.429794	-.427209
64	-.427367	-.424293	-.421026	-.417567	-.413920	-.410087
66	-.409740	-.405413	-.400895	-.396190	-.391302	-.386233
68	-.385734	-.380171	-.374424	-.368499	-.362399	-.356128
70	-.355800	-.349039	-.342108	-.335011	-.327753	-.320338
72	-.320460	-.312565	-.304516	-.296320	-.287980	-.279504
74	-.280306	-.271362	-.262286	-.253085	-.243764	-.234330
76	-.235990	-.226105	-.216113	-.206024	-.195844	-.185580
78	-.188215	-.177516	-.166743	-.155905	-.145008	-.134061
80	-.137726	-.126362	-.114961	-.103530	-.092080	-.080618
82	-.085301	-.073439	-.061580	-.049733	-.037908	-.026114
84	-.031741	-.019563	-.007433	.004638	.016643	.028572
86	.022141	.034437	.046638	.058733	.070712	.082566
88	.075530	.087738	.099799	.111704	.123442	.135004
90	.127620	.139524	.151229	.162724	.174001	.185049

		$P_\nu(\cos \theta)$				
ν	3.20	3.22	3.24	3.26	3.28	3.30
θ						
90	.127620	.139524	.151229	.162725	.174001	.185049
92	.177622	.189002	.200130	.210994	.221587	.231898
94	.224778	.235413	.245742	.255755	.265443	.274797
96	.268367	.278040	.287353	.296297	.304865	.313050
98	.307720	.316217	.324303	.331971	.339214	.346027
100	.342220	.349339	.356000	.362196	.367923	.373176
102	.371318	.376871	.381922	.386467	.390504	.394029
104	.394536	.398352	.401628	.404363	.406556	.408208
106	.411476	.413404	.414763	.415552	.415773	.415430
108	.421821	.421737	.421060	.419794	.417944	.415515
110	.425346	.423150	.420349	.416949	.412958	.408385
112	.421913	.417539	.412556	.406975	.400808	.394066
114	.411481	.404894	.397706	.389933	.381589	.372690
116	.394103	.385302	.375922	.365981	.355498	.344492
118	.369923	.358946	.347424	.335379	.322833	.309810
120	.339183	.326105	.312529	.298482	.283989	.269078
122	.302212	.287147	.271645	.255737	.239453	.222822
124	.259427	.242528	.225267	.207679	.189797	.171655
126	.211328	.192787	.173973	.154924	.135677	.116269
128	.158492	.138538	.118414	.098161	.077818	.057426
130	.101566	.080465	.059311	.038145	.017011	-.004049
132	.041260	.019315	-.002555	-.024308	-.045899	-.067282
134	-.021656	-.044112	-.066355	-.088341	-.110022	-.131356
136	-.086372	-.108973	-.131215	-.153051	-.174434	-.195319
138	-.152032	-.174389	-.196230	-.217510	-.238182	-.258203
140	-.217754	-.239450	-.260471	-.280769	-.300302	-.319027
142	-.282630	-.303233	-.322994	-.341870	-.359822	-.376809
144	-.345745	-.364802	-.382852	-.399855	-.415775	-.430577
146	-.406172	-.423221	-.439098	-.453770	-.467204	-.479374
148	-.462990	-.477559	-.490797	-.502677	-.513172	-.522264
150	-.515283	-.526896	-.537026	-.545654	-.552763	-.558341
152	-.562145	-.570324	-.576879	-.581800	-.585082	-.586724
154	-.602681	-.606946	-.609463	-.610231	-.609258	-.606555
156	-.636000	-.635876	-.633896	-.630074	-.624431	-.616992
158	-.661207	-.656218	-.649288	-.640449	-.629734	-.617186
160	-.677383	-.667050	-.654720	-.640441	-.624264	-.606250
162	-.683543	-.667378	-.649192	-.629052	-.607031	-.583205
164	-.678576	-.656067	-.631553	-.605121	-.576864	-.546882
166	-.661127	-.631717	-.600361	-.567172	-.532267	-.495767
168	-.629391	-.592431	-.553642	-.513161	-.471133	-.427704
170	-.580700	-.535377	-.488408	-.439961	-.390210	-.339331
172	-.510643	-.455823	-.399630	-.342267	-.283941	-.224861
174	-.410868	-.344762	-.277682	-.209873	-.141583	-.073059
176	-.262247	-.181490	-.100371	-.019190	.061754	.142165
178	-.002440	.101553	.204817	.306964	.407613	.506387
180	∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$				
ν	3.30	3.32	3.34	3.36	3.38	3.40
θ						
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
2	.995681	.995635	.995589	.995542	.995495	.995447
4	.982780	.982596	.982412	.982225	.982038	.981851
6	.961456	.961046	.960634	.960220	.959804	.959386
8	.931971	.931253	.930532	.929807	.929079	.928347
10	.894688	.893589	.892483	.891373	.890258	.889137
12	.850068	.848521	.846968	.845408	.843841	.842267
14	.798658	.796612	.794558	.792495	.790425	.788346
16	.741089	.738505	.735911	.733307	.730694	.728072
18	.678068	.674920	.671762	.668593	.665414	.662226
20	.610363	.606642	.602911	.599169	.595417	.591656
22	.538801	.534513	.530216	.525910	.521595	.517272
24	.464250	.459419	.454580	.449735	.444883	.440025
26	.387613	.382277	.376938	.371596	.366250	.360902
28	.309812	.304028	.298245	.292463	.286684	.280906
30	.231780	.225618	.219463	.213316	.207178	.201048
32	.154444	.147990	.141550	.135126	.128718	.122327
34	.078720	.072070	.065445	.058844	.052269	.045720
36	.005493	-.001242	-.007943	-.014609	-.021238	-.027830
38	-.064387	-.071092	-.077749	-.084359	-.090921	-.097433
40	-.130125	-.136673	-.143161	-.149588	-.155954	-.162257
42	-.190981	-.197243	-.203432	-.209545	-.215583	-.221543
44	-.246285	-.252131	-.257888	-.263556	-.269132	-.274617
46	-.295447	-.300747	-.305941	-.311032	-.316016	-.320895
48	-.337961	-.342587	-.347093	-.351480	-.355746	-.359892
50	-.373412	-.377244	-.380942	-.384506	-.387936	-.391231
52	-.401484	-.404411	-.407191	-.409823	-.412308	-.414646
54	-.421960	-.423882	-.425646	-.427250	-.428696	-.429983
56	-.434727	-.435560	-.436224	-.436719	-.437046	-.437206
58	-.439776	-.439451	-.438950	-.438272	-.437420	-.436394
60	-.437204	-.435671	-.433957	-.432062	-.429990	-.427740
62	-.427209	-.424438	-.421485	-.418351	-.415039	-.411551
64	-.410087	-.406071	-.401875	-.397502	-.392954	-.388235
66	-.386233	-.380987	-.375568	-.369979	-.364223	-.358305
68	-.356128	-.349691	-.343092	-.336335	-.329424	-.322365
70	-.320338	-.312773	-.305061	-.297208	-.289220	-.281100
72	-.279504	-.270896	-.262163	-.253311	-.244345	-.235272
74	-.234330	-.224790	-.215151	-.205418	-.195600	-.185702
76	-.185580	-.175240	-.164830	-.154359	-.143834	-.133262
78	-.134061	-.123073	-.112051	-.101003	-.089937	-.078861
80	-.080618	-.069152	-.057692	-.046247	-.034824	-.023431
82	-.026114	-.014359	-.002653	.008994	.020576	.032082
84	.028572	.040415	.052163	.063806	.075335	.086741
86	.082566	.094285	.105860	.117281	.128539	.139625
88	.135004	.146380	.157561	.168537	.179300	.189840
90	.185049	.195859	.206422	.216729	.226771	.236541

		$P_\nu(\cos \theta)$					
ν		3.30	3.32	3.34	3.36	3.38	3.40
θ							
90		.185049	.195859	.206422	.216729	.226772	.236541
92		.231898	.241919	.251641	.261057	.270157	.278936
94		.274797	.283810	.292474	.300782	.308726	.316301
96		.313050	.320844	.328241	.335235	.341821	.347993
98		.346027	.352403	.358339	.363828	.368868	.373454
100		.373176	.377952	.382248	.386060	.389386	.392226
102		.394029	.397042	.399540	.401525	.402995	.403951
104		.408208	.409318	.409888	.409920	.409417	.408382
106		.415430	.414526	.413064	.411050	.408488	.405385
108		.415515	.412515	.408949	.404825	.400153	.394942
110		.408385	.403239	.397531	.391272	.384474	.377148
112		.394066	.386762	.378911	.370526	.361622	.352217
114		.372690	.363252	.353294	.342832	.331886	.320474
116		.344492	.332984	.320994	.308544	.295657	.282354
118		.309810	.296334	.282429	.268120	.253433	.238395
120		.269078	.253776	.238112	.222113	.205810	.189231
122		.222822	.205877	.188649	.171170	.153471	.135586
124		.171655	.153288	.134730	.116017	.097182	.078262
126		.116269	.096738	.077122	.057456	.037780	.018130
128		.057426	.037025	.016654	-.003646	-.023837	-.043881
130		-.004049	-.024994	-.045782	-.066373	-.086724	-.106798
132		-.067282	-.088416	-.109257	-.129764	-.149896	-.169613
134		-.131356	-.152296	-.172802	-.192831	-.212342	-.231297
136		-.195319	-.215664	-.235425	-.254563	-.273039	-.290814
138		-.258203	-.277531	-.296126	-.313948	-.330961	-.347131
140		-.319027	-.336905	-.353899	-.369973	-.385094	-.399231
142		-.376809	-.392797	-.407752	-.421643	-.434441	-.446122
144		-.430577	-.444232	-.456709	-.467986	-.478039	-.486849
146		-.479374	-.490253	-.499822	-.508062	-.514958	-.520499
148		-.522264	-.529936	-.536173	-.540968	-.544314	-.546210
150		-.558341	-.562383	-.564883	-.565843	-.565268	-.563166
152		-.586724	-.586729	-.585105	-.581865	-.577025	-.570606
154		-.606555	-.602138	-.596026	-.588247	-.578829	-.567807
156		-.616992	-.607786	-.596849	-.584221	-.569947	-.554075
158		-.617186	-.602849	-.586776	-.569021	-.549647	-.528717
160		-.606250	-.586461	-.564965	-.541837	-.517154	-.490999
162		-.583205	-.557657	-.530476	-.501754	-.471587	-.440077
164		-.546882	-.515279	-.482163	-.447646	-.411847	-.374885
166		-.495767	-.457801	-.418499	-.377995	-.336428	-.293940
168		-.427704	-.383028	-.337260	-.290558	-.243083	-.194998
170		-.339331	-.287504	-.234911	-.181736	-.128164	-.074382
172		-.224861	-.165237	-.105282	-.045208	.014771	.074448
174		-.073059	-.004548	.063700	.131445	.198442	.264454
176		.142165	.221748	.300212	.377272	.452650	.526074
178		.506387	.602921	.696856	.787847	.875559	.959670
180		∞	∞	∞	∞	∞	∞

		$P_\nu(\cos \theta)$					
ν	3.40	3.42	3.44	3.46	3.48	3.50	
θ							
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	
2	.995447	.995400	.995352	.995304	.995256	.995208	
4	.981851	.981662	.981472	.981281	.981089	.980897	
6	.959386	.958966	.958543	.958119	.957693	.957265	
8	.928347	.927611	.926873	.926130	.925385	.924636	
10	.889137	.888012	.886881	.885745	.884605	.883459	
12	.842267	.840687	.839100	.837506	.835906	.834299	
14	.788346	.786259	.784164	.782060	.779949	.777830	
16	.728072	.725441	.722800	.720150	.717491	.714823	
18	.662226	.659027	.655819	.652602	.649375	.646138	
20	.591656	.587886	.584105	.580316	.576517	.572709	
22	.517272	.512940	.508600	.504252	.499896	.495532	
24	.440025	.435161	.430291	.425415	.420534	.415648	
26	.360902	.355551	.350198	.344843	.339487	.334130	
28	.280906	.275131	.269359	.263591	.257826	.252065	
30	.201048	.194927	.188816	.182715	.176624	.170544	
32	.122327	.115952	.109596	.103258	.096938	.090638	
34	.045720	.039198	.032703	.026236	.019797	.013388	
36	-.027830	-.034384	-.040900	-.047378	-.053815	-.060212	
38	-.097433	-.103895	-.110306	-.116667	-.122975	-.129230	
40	-.162257	-.168496	-.174672	-.180782	-.186828	-.192807	
42	-.221543	-.227426	-.233232	-.238958	-.244605	-.250172	
44	-.274617	-.280010	-.285311	-.290518	-.295631	-.300650	
46	-.320895	-.325666	-.330331	-.334887	-.339335	-.343675	
48	-.359892	-.363917	-.367820	-.371600	-.375259	-.378795	
50	-.391231	-.394392	-.397417	-.400307	-.403062	-.405681	
52	-.414646	-.416836	-.418880	-.420776	-.422525	-.424127	
54	-.429983	-.431112	-.432084	-.432898	-.433556	-.434058	
56	-.437206	-.437199	-.437027	-.436690	-.436189	-.435525	
58	-.436394	-.435196	-.433827	-.432288	-.430582	-.428708	
60	-.427740	-.425317	-.422720	-.419952	-.417015	-.413912	
62	-.411551	-.407889	-.404056	-.400055	-.395887	-.391557	
64	-.388235	-.383348	-.378295	-.373080	-.367707	-.362178	
66	-.358305	-.352229	-.345997	-.339615	-.333085	-.326413	
68	-.322365	-.315161	-.307817	-.300338	-.292728	-.284992	
70	-.281100	-.272855	-.264491	-.256011	-.247422	-.238729	
72	-.235272	-.226097	-.216827	-.207467	-.198024	-.188503	
74	-.185702	-.175731	-.165693	-.155597	-.145447	-.135252	
76	-.133262	-.122650	-.112005	-.101336	-.090649	-.079952	
78	-.078861	-.067782	-.056710	-.045651	-.034614	-.023606	
80	-.023431	-.012079	-.000774	.010475	.021660	.032773	
82	.032082	.043504	.054833	.066061	.077180	.088181	
84	.086741	.098017	.109152	.120138	.130968	.141632	
86	.139625	.150530	.161246	.171765	.182078	.192178	
88	.189840	.200150	.210221	.220045	.229614	.238922	
90	.236541	.246030	.255231	.264137	.272740	.281033	

		$P_\nu(\cos \theta)$					
ν		3.40	3.42	3.44	3.46	3.48	3.50
θ							
90		.236541	.246031	.255232	.264137	.272740	.281034
92		.278936	.287385	.295498	.303269	.310691	.317759
94		.316301	.323501	.330319	.336751	.342791	.348436
96		.347993	.353747	.359078	.363983	.368459	.372502
98		.373454	.377585	.381257	.384468	.387218	.389505
100		.392226	.394578	.396441	.397817	.398706	.399109
102		.403951	.404395	.404329	.403756	.402678	.401099
104		.408382	.406819	.404733	.402129	.399012	.395390
106		.405385	.401749	.397585	.392903	.387711	.382019
108		.394942	.389200	.382939	.376170	.368905	.361156
110		.377148	.369308	.360968	.352143	.342846	.333095
112		.352217	.342325	.331965	.321153	.309908	.298250
114		.320474	.308617	.296335	.283650	.270582	.257154
116		.282354	.268659	.254597	.240191	.225466	.210447
118		.238395	.223031	.207369	.191436	.175260	.158869
120		.189231	.172406	.155366	.138140	.120758	.103252
122		.135586	.117547	.099386	.081137	.062832	.044504
124		.078262	.059291	.040304	.021337	.002423	-.016402
126		.018130	-.001456	-.020943	-.040293	-.059472	-.078443
128		-.043881	-.063738	-.083371	-.102742	-.121815	-.140555
130		-.106798	-.126554	-.145954	-.164962	-.183540	-.201654
132		-.169613	-.188875	-.207646	-.225889	-.243567	-.260649
134		-.231297	-.249657	-.267387	-.284452	-.300817	-.316452
136		-.290814	-.307853	-.324123	-.339590	-.354226	-.368001
138		-.347131	-.362425	-.376813	-.390265	-.402757	-.414265
140		-.399231	-.412356	-.424444	-.435471	-.445416	-.454262
142		-.446122	-.456662	-.466043	-.474246	-.481258	-.487067
144		-.486849	-.494401	-.500683	-.505684	-.509399	-.511824
146		-.520499	-.524679	-.527493	-.528939	-.529022	-.527747
148		-.546210	-.546657	-.545662	-.543233	-.539385	-.534133
150		-.563166	-.559551	-.554440	-.547852	-.539814	-.530352
152		-.570606	-.562634	-.553137	-.542148	-.529706	-.515852
154		-.567807	-.555221	-.541111	-.525527	-.508519	-.490140
156		-.554075	-.536660	-.517758	-.497432	-.475747	-.452772
158		-.528717	-.506302	-.482475	-.457313	-.430898	-.403314
160		-.490999	-.463458	-.434622	-.404585	-.373444	-.341299
162		-.440077	-.407328	-.373448	-.338549	-.302744	-.266149
164		-.374885	-.336884	-.297970	-.258273	-.217922	-.177051
166		-.293940	-.250674	-.206774	-.162388	-.117665	-.072751
168		-.194998	-.146467	-.097655	-.048728	.000148	.048812
170		-.074382	-.020575	.033071	.086373	.139149	.191219
172		.074448	.133612	.192058	.249581	.305984	.361073
174		.264454	.329246	.392591	.454264	.514050	.571741
176		.526074	.597278	.666011	.732026	.795089	.854979
178		.959670	1.039874	1.115882	1.187417	1.254224	1.316066
180		∞	∞	∞	∞	∞	∞

TABLE II

Table of $Q_\nu(\cos \theta)$: Six Decimal Places

$$\theta = 2^\circ (2^\circ) 178^\circ$$

$$\nu = -0.5 (0.02) 3.5$$

		$Q_\nu(\cos \theta)$					
ν		$-.50$	$-.48$	$-.46$	$-.44$	$-.42$	$-.40$
θ							
0	∞	∞	∞	∞	∞	∞	∞
2	5.434909	5.339446	5.250000	5.165951	5.086762	5.011968	
4	4.742716	4.647230	4.557757	4.473680	4.394460	4.319632	
6	4.338653	4.243127	4.153612	4.069488	3.990218	3.915338	
8	4.052757	3.957176	3.867602	3.783414	3.704077	3.629125	
10	3.831741	3.736089	3.646440	3.562172	3.482750	3.407708	
12	3.651855	3.556117	3.466376	3.382012	3.302488	3.227338	
14	3.500422	3.404582	3.314734	3.230256	3.150612	3.075338	
16	3.369867	3.273911	3.183939	3.099331	3.019551	2.944135	
18	3.255302	3.159213	3.069102	2.984348	2.904415	2.828840	
20	3.153384	3.057147	2.966880	2.881963	2.801862	2.726111	
22	3.061728	2.965327	2.874888	2.789792	2.709505	2.633561	
24	2.978568	2.881987	2.791360	2.706069	2.625579	2.549426	
26	2.902564	2.805787	2.714956	2.629453	2.548744	2.472365	
28	2.832671	2.735682	2.644630	2.558899	2.477955	2.401332	
30	2.768062	2.670844	2.579555	2.493579	2.412382	2.335500	
32	2.708066	2.610602	2.519060	2.432823	2.351356	2.274198	
34	2.652137	2.554411	2.462598	2.376081	2.294329	2.216877	
36	2.599818	2.501813	2.409712	2.322901	2.240845	2.163083	
38	2.550730	2.452428	2.360023	2.272897	2.190520	2.112431	
40	2.504549	2.405933	2.313205	2.225749	2.143034	2.064599	
42	2.460998	2.362051	2.268982	2.181178	2.098107	2.019310	
44	2.419840	2.320543	2.227116	2.138946	2.055501	1.976323	
46	2.380869	2.281204	2.187400	2.098844	2.015008	1.935430	
48	2.343904	2.243851	2.149652	2.060693	1.976446	1.896451	
50	2.308785	2.208327	2.113713	2.024332	1.939655	1.859225	
52	2.275375	2.174491	2.079443	1.989620	1.904495	1.823610	
54	2.243548	2.142218	2.046717	1.956432	1.870839	1.789480	
56	2.213193	2.111398	2.015422	1.924656	1.838574	1.756722	
58	2.184211	2.081929	1.985459	1.894191	1.807600	1.725234	
60	2.156514	2.053724	1.956737	1.864946	1.777826	1.694925	
62	2.130020	2.026700	1.929175	1.836839	1.749169	1.665712	
64	2.104656	2.000784	1.902699	1.809796	1.721553	1.637519	
66	2.080356	1.975909	1.877241	1.783748	1.694910	1.610278	
68	2.057061	1.952014	1.852739	1.758634	1.669178	1.583923	
70	2.034714	1.929044	1.829139	1.734396	1.644299	1.558398	
72	2.013265	1.906947	1.806386	1.710982	1.620218	1.533649	
74	1.992668	1.885676	1.784433	1.688342	1.596888	1.509624	
76	1.972881	1.865187	1.763237	1.666433	1.574262	1.486279	
78	1.953863	1.845442	1.742757	1.645212	1.552297	1.463568	
80	1.935579	1.826401	1.722953	1.624640	1.530954	1.441452	
82	1.917996	1.808032	1.703791	1.604681	1.510195	1.419892	
84	1.901081	1.790300	1.685237	1.585300	1.489985	1.398852	
86	1.884807	1.773177	1.667260	1.566466	1.470290	1.378298	
88	1.869146	1.756635	1.649831	1.548147	1.451079	1.358196	
90	1.854073	1.740647	1.632923	1.530315	1.432323	1.338515	

ν	$Q_\nu(\cos \theta)$					
	$-.50$	$-.48$	$-.46$	$-.44$	$-.42$	$-.40$
θ						
90	1.854073	1.740648	1.632923	1.530315	1.432323	1.338515
92	1.839565	1.725189	1.616509	1.512943	1.413992	1.319227
94	1.825600	1.710237	1.600565	1.496005	1.396058	1.300301
96	1.812158	1.695770	1.585067	1.479474	1.378496	1.281710
98	1.799220	1.681766	1.569993	1.463328	1.361279	1.263425
100	1.786767	1.668205	1.555321	1.447543	1.344382	1.245421
102	1.774784	1.655071	1.541031	1.432096	1.327782	1.227672
104	1.763255	1.642343	1.527102	1.416966	1.311453	1.210150
106	1.752164	1.630007	1.513516	1.402132	1.295372	1.192831
108	1.741498	1.618044	1.500254	1.387570	1.279517	1.175688
110	1.731244	1.606440	1.487298	1.373263	1.263863	1.158696
112	1.721389	1.595179	1.474628	1.359187	1.248385	1.141827
114	1.711923	1.584247	1.462229	1.345322	1.233062	1.125055
116	1.702835	1.573629	1.450081	1.331647	1.217867	1.108352
118	1.694113	1.563312	1.438167	1.318140	1.202776	1.091689
120	1.685749	1.553282	1.426470	1.304780	1.187762	1.075036
122	1.677734	1.543524	1.414970	1.291544	1.172799	1.058361
124	1.670058	1.534027	1.403650	1.278408	1.157858	1.041632
126	1.662715	1.524774	1.392490	1.265347	1.142908	1.024812
128	1.655696	1.515754	1.381471	1.252335	1.127919	1.007864
130	1.648994	1.506952	1.370570	1.239345	1.112854	.990745
132	1.642603	1.498353	1.359767	1.226346	1.097676	.973412
134	1.636517	1.489943	1.349037	1.213306	1.082345	.955814
136	1.630728	1.481705	1.338353	1.200190	1.066814	.937897
138	1.625233	1.473624	1.327690	1.186957	1.051034	.919599
140	1.620025	1.465679	1.317014	1.173565	1.034948	.900852
142	1.615100	1.457852	1.306292	1.159963	1.018492	.881578
144	1.610453	1.450122	1.295484	1.146095	1.001593	.861685
146	1.606080	1.442462	1.284545	1.131897	.984166	.841071
148	1.601978	1.434845	1.273425	1.117294	.966113	.819614
150	1.598141	1.427240	1.262061	1.102195	.947317	.797169
152	1.594567	1.419608	1.250382	1.086496	.927637	.773564
154	1.591254	1.411904	1.238301	1.070067	.906905	.748589
156	1.588197	1.404073	1.225712	1.052751	.884913	.721985
158	1.585394	1.396047	1.212480	1.034350	.861396	.693427
160	1.582842	1.387740	1.198435	1.014609	.836020	.662499
162	1.580541	1.379037	1.183355	.993196	.808344	.628652
164	1.578486	1.369788	1.166937	.969661	.777772	.591149
166	1.576678	1.359781	1.148761	.943377	.743472	.548954
168	1.575113	1.348708	1.128213	.913427	.704225	.500555
170	1.573792	1.336090	1.104342	.878388	.658149	.443611
172	1.572712	1.321132	1.075559	.835887	.602088	.374204
174	1.571873	1.302342	1.038886	.781470	.530136	.284993
176	1.571275	1.276371	.987643	.705152	.429040	.159513
178	1.570916	1.232549	.900528	.575086	.256533	-.054758
180	1.570796	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$Q_\nu(\cos \theta)$					
ν		-.40	-.38	-.36	-.34	-.32	-.30
θ							
0		∞	∞	∞	∞	∞	∞
2		5.011968	4.941162	4.873988	4.810132	4.749317	4.691297
4		4.319632	4.248790	4.181578	4.117682	4.056825	3.998760
6		3.915338	3.844440	3.777168	3.713210	3.652287	3.594153
8		3.629125	3.558152	3.490801	3.426758	3.365748	3.307523
10		3.407708	3.336640	3.269190	3.205045	3.143927	3.085590
12		3.227338	3.156158	3.088590	3.024323	2.963078	2.904610
14		3.075338	3.004027	2.936324	2.871916	2.810525	2.751906
16		2.944135	2.872677	2.804820	2.740253	2.678698	2.619909
18		2.828840	2.757216	2.689189	2.624445	2.562708	2.503731
20		2.726111	2.654305	2.586090	2.521151	2.459214	2.400032
22		2.633561	2.561556	2.493135	2.427985	2.365831	2.306427
24		2.549426	2.477205	2.408562	2.343184	2.280796	2.221152
26		2.472365	2.399911	2.331029	2.265406	2.202766	2.142865
28		2.401332	2.328629	2.259491	2.193606	2.130698	2.070524
30		2.335500	2.262531	2.193119	2.126955	2.063763	2.003299
32		2.274198	2.200945	2.131244	2.064784	2.001291	1.940520
34		2.216877	2.143324	2.073317	2.006545	1.942733	1.881639
36		2.163083	2.089213	2.018882	1.951780	1.887633	1.826200
38		2.112431	2.038227	1.967555	1.900107	1.835610	1.773820
40		2.064599	1.990043	1.919014	1.851203	1.786338	1.724175
42		2.019310	1.944384	1.872980	1.804789	1.739538	1.676986
44		1.976323	1.901010	1.829214	1.760625	1.694973	1.632015
46		1.935430	1.859714	1.787507	1.718504	1.652431	1.589051
48		1.896451	1.820312	1.747677	1.678241	1.611732	1.547912
50		1.859225	1.782644	1.709563	1.639677	1.572714	1.508437
52		1.823610	1.746569	1.673024	1.602668	1.535234	1.470482
54		1.789480	1.711960	1.637931	1.567088	1.499164	1.433920
56		1.756722	1.678703	1.604171	1.532823	1.464390	1.398637
58		1.725234	1.646697	1.571643	1.499770	1.430810	1.364529
60		1.694925	1.615849	1.540253	1.467835	1.398330	1.331502
62		1.665712	1.586077	1.509918	1.436936	1.366865	1.299472
64		1.637519	1.557303	1.480561	1.406995	1.336339	1.268361
66		1.610278	1.529459	1.452113	1.377941	1.306679	1.238097
68		1.583923	1.502480	1.424507	1.349708	1.277821	1.208615
70		1.558398	1.476307	1.397686	1.322238	1.249704	1.179852
72		1.533649	1.450886	1.371593	1.295474	1.222271	1.151754
74		1.509624	1.426167	1.346178	1.269365	1.195470	1.124265
76		1.486279	1.402100	1.321392	1.243861	1.169251	1.097336
78		1.463568	1.378644	1.297190	1.218917	1.143568	1.070920
80		1.441452	1.355755	1.273530	1.194489	1.118378	1.044973
82		1.419892	1.333395	1.250372	1.170537	1.093637	1.019452
84		1.398852	1.311526	1.227678	1.147022	1.069307	.994315
86		1.378298	1.290113	1.205410	1.123905	1.045349	.969525
88		1.358196	1.269123	1.183536	1.101153	1.021727	.945043
90		1.338515	1.248522	1.162020	1.078728	.998404	.920833

		$Q_\nu(\cos \theta)$					
ν	θ	-.40	-.38	-.36	-.34	-.32	-.30
90		1.338515	1.248522	1.162020	1.078728	.998404	.920833
92		1.319227	1.228280	1.140830	1.056599	.975347	.896858
94		1.300301	1.208366	1.119935	1.034733	.952519	.873085
96		1.281710	1.188751	1.099304	1.013096	.929889	.849476
98		1.263425	1.169405	1.078906	.991657	.907423	.825999
100		1.245421	1.150301	1.058711	.970384	.885087	.802617
102		1.227672	1.131410	1.038690	.949246	.862849	.779298
104		1.210150	1.112705	1.018813	.928212	.840675	.756005
106		1.192831	1.094157	.999049	.907248	.818531	.732703
108		1.175688	1.075738	.979368	.886323	.796382	.709355
110		1.158696	1.057420	.959739	.865403	.774193	.685922
112		1.141827	1.039172	.940130	.844453	.751926	.662367
114		1.125055	1.020966	.920509	.823438	.729545	.638648
116		1.108352	1.002771	.900841	.802322	.707007	.614722
118		1.091689	.984553	.881090	.781063	.684272	.590544
120		1.075036	.966279	.861218	.759622	.661293	.566065
122		1.058361	.947913	.841186	.737954	.638024	.541234
124		1.041632	.929417	.820952	.716012	.614413	.515995
126		1.024812	.910751	.800467	.693745	.590403	.490289
128		1.007864	.891869	.779685	.671099	.565935	.464048
130		.990745	.872725	.758549	.648011	.540943	.437203
132		.973412	.853266	.737001	.624418	.515353	.409672
134		.955814	.833435	.714975	.600244	.489084	.381369
136		.937897	.813166	.692398	.575407	.462046	.352194
138		.919599	.792389	.669186	.549816	.434137	.322036
140		.900852	.771022	.645249	.523367	.405242	.290769
142		.881578	.748972	.620479	.495939	.375228	.258250
144		.861685	.726135	.594754	.467395	.343943	.224310
146		.841071	.702386	.567934	.437577	.311210	.188758
148		.819614	.677581	.539851	.406296	.276823	.151365
150		.797169	.651550	.510309	.373330	.240532	.111861
152		.773564	.624088	.479071	.338412	.202043	.069922
154		.748589	.594945	.445850	.301217	.160994	.025151
156		.721985	.563813	.410290	.261344	.116938	-.022939
158		.693427	.530306	.371944	.218287	.069315	-.074966
160		.662499	.493928	.330239	.171398	.017404	-.131719
162		.628652	.454027	.284422	.119826	-.039740	-.194235
164		.591149	.409724	.233476	.062420	-.103400	-.263918
166		.548954	.359786	.175977	-.002431	-.175365	-.342732
168		.500555	.302412	.109840	-.077084	-.258257	-.433552
170		.443611	.234814	.031843	-.165187	-.356132	-.540828
172		.374204	.152325	-.063413	-.272847	-.475783	-.672010
174		.284993	.046200	-.186043	-.411506	-.629934	-.841057
176		.159513	-.103175	-.358731	-.606833	-.847136	-1.079286
178		-.054758	-.358369	-.653844	-.940705	-1.218456	-1.486593
180		-∞	-∞	-∞	-∞	-∞	-∞

$Q_\nu(\cos \theta)$

ν	-.30	-.28	-.26	-.24	-.22	-.20
θ						
90	.920833	.845828	.773223	.702875	.634655	.568450
92	.896858	.820951	.747461	.676246	.607180	.540151
94	.873085	.796246	.721843	.649735	.579798	.511923
96	.849476	.771677	.696332	.623304	.552471	.483725
98	.825999	.747207	.670891	.596915	.525159	.455519
100	.802617	.722800	.645482	.570528	.497822	.427262
102	.779298	.698421	.620068	.544106	.470422	.398915
104	.756005	.674033	.594610	.517609	.442916	.370435
106	.732703	.649598	.569071	.490995	.415262	.341778
108	.709355	.625077	.543408	.464223	.387418	.312900
110	.685922	.600431	.517580	.437250	.359337	.283753
112	.662367	.575619	.491545	.410029	.330973	.254290
114	.638648	.550596	.465255	.382514	.302275	.224457
116	.614722	.525317	.438663	.354653	.273192	.194202
118	.590544	.499734	.411719	.326393	.243666	.163465
120	.566065	.473796	.384367	.297676	.213639	.132184
122	.541234	.447447	.356549	.268442	.183045	.100292
124	.515995	.420629	.328202	.238623	.151815	.067717
126	.490289	.393275	.299257	.208146	.119873	.034378
128	.464048	.365316	.269639	.176934	.087135	.000189
130	.437203	.336675	.239266	.144898	.053511	-.034944
132	.409672	.307267	.208047	.111942	.018897	-.071131
134	.381369	.276995	.175880	.077959	-.016817	-.108487
136	.352194	.245754	.142651	.042827	-.053761	-.147146
138	.322036	.213424	.108233	.006411	-.092077	-.187259
140	.290769	.179869	.072479	-.031443	-.131928	-.228995
142	.258250	.144932	.035223	-.070914	-.173502	-.272551
144	.224310	.108434	-.003728	-.112206	-.217014	-.318153
146	.188758	.070166	-.044599	-.155558	-.262716	-.366066
148	.151365	.029881	-.087655	-.201251	-.310904	-.416599
150	.111861	-.012714	-.133207	-.249618	-.361930	-.470122
152	.069922	-.057970	-.181635	-.301060	-.416219	-.527079
154	.025151	-.106316	-.233397	-.356067	-.474287	-.588014
156	-.022939	-.158282	-.289063	-.415243	-.536773	-.653595
158	-.074966	-.214535	-.349348	-.479351	-.604482	-.724668
160	-.131719	-.275930	-.415171	-.549370	-.678447	-.802317
162	-.194235	-.343594	-.487740	-.626583	-.760027	-.887968
164	-.263918	-.419047	-.568688	-.712731	-.851058	-.983549
166	-.342732	-.504420	-.660302	-.810247	-.954114	-1.091761
168	-.433552	-.602828	-.765929	-.922695	-1.072959	-1.216555
170	-.540828	-.719097	-.890750	-1.055592	-1.213425	-1.364055
172	-.672010	-.861307	-1.043440	-1.218175	-1.385275	-1.544509
174	-.841057	-1.044593	-1.240254	-1.427752	-1.606801	-1.777123
176	-1.079286	-1.302916	-1.517662	-1.723160	-1.919053	-2.104995
178	-1.486593	-1.744609	-1.992004	-2.228284	-2.452973	-2.665611
180	-∞	-∞	-∞	-∞	-∞	-∞

		$Q_\nu(\cos \theta)$					
ν		-.20	-.18	-.16	-.14	-.12	-.10
θ							
0		∞	∞	∞	∞	∞	∞
2		4.436183	4.391037	4.347546	4.305602	4.265110	4.225980
4		3.743390	3.698187	3.654637	3.612632	3.572077	3.532881
6		3.338396	3.293106	3.249468	3.207371	3.166722	3.127430
8		3.051259	3.005858	2.962104	2.919890	2.879119	2.839702
10		2.828707	2.783171	2.739278	2.696921	2.656005	2.616439
12		2.647002	2.601309	2.557254	2.514733	2.473647	2.433909
14		2.493474	2.447603	2.403367	2.360659	2.319384	2.279452
16		2.360558	2.314489	2.270051	2.227138	2.185652	2.145507
18		2.243368	2.197082	2.152424	2.109286	2.067572	2.027194
20		2.138567	2.092047	2.047150	2.003770	1.961809	1.921181
22		2.043771	1.997000	1.951847	1.908207	1.865983	1.825088
24		1.957221	1.910182	1.864756	1.820840	1.778336	1.737157
26		1.877577	1.830252	1.784538	1.740329	1.697530	1.656052
28		1.803795	1.756169	1.710151	1.665634	1.622524	1.580733
30		1.735048	1.687107	1.640768	1.595929	1.552493	1.510374
32		1.670668	1.622395	1.575722	1.530545	1.486770	1.444309
34		1.610107	1.561487	1.514465	1.468937	1.424807	1.381991
36		1.552908	1.503927	1.456542	1.410648	1.366151	1.322966
38		1.498692	1.449334	1.401571	1.355298	1.310421	1.266855
40		1.447131	1.397384	1.349229	1.302563	1.257293	1.213333
42		1.397950	1.347798	1.299238	1.252166	1.206490	1.162124
44		1.350908	1.300337	1.251357	1.203866	1.157772	1.112989
46		1.305795	1.254792	1.205379	1.157456	1.110931	1.065719
48		1.262429	1.210979	1.161120	1.112753	1.065784	1.020132
50		1.220648	1.168737	1.118419	1.069593	1.022170	.976066
52		1.180308	1.127922	1.077131	1.027836	.979946	.933379
54		1.141282	1.088406	1.037129	.987350	.938982	.891941
56		1.103452	1.050073	.998296	.948023	.899164	.851638
58		1.066716	1.012819	.960530	.909748	.860387	.812366
60		1.030979	.976550	.923734	.872431	.822557	.774030
62		.996154	.941179	.887822	.835986	.785586	.736543
64		.962162	.906626	.852715	.800333	.749396	.699825
66		.928930	.872818	.818339	.765399	.713913	.663804
68		.896391	.839688	.784627	.731115	.679068	.628411
70		.864481	.807171	.751514	.697418	.644798	.593581
72		.833142	.775210	.718943	.664248	.611044	.559257
74		.802317	.743748	.686855	.631549	.577748	.525381
76		.771956	.712733	.655200	.599268	.544859	.491899
78		.742007	.682113	.623925	.567354	.512323	.458762
80		.712424	.651843	.592984	.535760	.480095	.425919
82		.683162	.621875	.562329	.504437	.448126	.393325
84		.654175	.592166	.531917	.473343	.416370	.360934
86		.625422	.562672	.501702	.442431	.384785	.328700
88		.596861	.533351	.471644	.411659	.353326	.296581
90		.568450	.504161	.441699	.380985	.321951	.264534

		$Q_\nu(\cos \theta)$					
ν		-.20	-.18	-.16	-.14	-.12	-.10
θ							
90		.568450	.504161	.441699	.380985	.321951	.264534
92		.540151	.475062	.411826	.350367	.290617	.232516
94		.511923	.446013	.381985	.319764	.259283	.200484
96		.483725	.416974	.352134	.289132	.227905	.168396
98		.455519	.387903	.322230	.258430	.196442	.136209
100		.427262	.358759	.292232	.227616	.164848	.103878
102		.398915	.329499	.262097	.196644	.133081	.071359
104		.370435	.300081	.231781	.165471	.101095	.038606
106		.341778	.270460	.201237	.134049	.068842	.005570
108		.312900	.240590	.170420	.102331	.036273	-.027796
110		.283753	.210422	.139279	.070267	.003338	-.061547
112		.254290	.179907	.107762	.037802	-.030018	-.095737
114		.224457	.148991	.075816	.004882	-.063852	-.130423
116		.194202	.117617	.043381	-.028552	-.098225	-.165667
118		.163465	.085726	.010397	-.062566	-.133200	-.201535
120		.132184	.053253	-.023204	-.097227	-.168849	-.238097
122		.100292	.020128	-.057493	-.132608	-.205246	-.275430
124		.067717	-.013723	-.092548	-.168789	-.242472	-.313617
126		.034378	-.048385	-.128454	-.205857	-.280617	-.352750
128		.000189	-.083946	-.165304	-.243909	-.319779	-.392927
130		-.034944	-.120505	-.203200	-.283049	-.360066	-.434259
132		-.071131	-.158175	-.242258	-.323396	-.401598	-.476869
134		-.108487	-.197076	-.282604	-.365080	-.444509	-.520893
136		-.147146	-.237348	-.324381	-.408248	-.488951	-.566485
138		-.187259	-.279147	-.367750	-.453067	-.535094	-.613820
140		-.228995	-.322651	-.412897	-.499727	-.583132	-.663096
142		-.272551	-.368063	-.460032	-.548446	-.633289	-.714541
144		-.318153	-.415619	-.509399	-.599474	-.685822	-.768419
146		-.366066	-.465595	-.561284	-.653106	-.741035	-.825037
148		-.416599	-.518314	-.616021	-.709689	-.799280	-.884758
150		-.470122	-.574161	-.674011	-.769633	-.860982	-.948015
152		-.527079	-.633599	-.735734	-.833434	-.926648	-1.015325
154		-.588014	-.697195	-.801775	-.901697	-.996899	-1.087325
156		-.653595	-.765646	-.872861	-.975170	-1.072505	-1.164799
158		-.724668	-.839835	-.949903	-1.054795	-1.154432	-1.248737
160		-.802317	-.920891	-1.034077	-1.141785	-1.243924	-1.340410
162		-.887968	-1.010303	-1.126925	-1.237730	-1.342617	-1.441490
164		-.983549	-1.110081	-1.230533	-1.344786	-1.452724	-1.554241
166		-1.091761	-1.223045	-1.347827	-1.465970	-1.577346	-1.681831
168		-1.216555	-1.353317	-1.483085	-1.605701	-1.721019	-1.828902
170		-1.364055	-1.507287	-1.642935	-1.770821	-1.890776	-2.002645
172		-1.544509	-1.695649	-1.838478	-1.972790	-2.098391	-2.215102
174		-1.777123	-1.938446	-2.090514	-2.233083	-2.365928	-2.488840
176		-2.104995	-2.280656	-2.445722	-2.599897	-2.742910	-2.874514
178		-2.665611	-2.865762	-3.053015	-3.226988	-3.387332	-3.533730
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

ν	$Q_\nu(\cos \theta)$					
	$-.10$	$-.08$	$-.06$	$-.04$	$-.02$	$.00$
θ						
0	∞	∞	∞	∞	∞	∞
2	4.225980	4.188130	4.151485	4.115977	4.081543	4.048125
4	3.532881	3.494964	3.458251	3.422672	3.388166	3.354673
6	3.127430	3.089413	3.052598	3.016915	2.982302	2.948700
8	2.839702	2.801559	2.764613	2.728796	2.694047	2.660306
10	2.616439	2.578142	2.541040	2.505064	2.470152	2.436246
12	2.433909	2.395436	2.358155	2.321997	2.286898	2.252802
14	2.279452	2.240782	2.203299	2.166937	2.131631	2.097324
16	2.145507	2.106619	2.068916	2.032329	1.996795	1.962257
18	2.027194	1.988071	1.950128	1.913298	1.877517	1.842730
20	1.921181	1.881804	1.843604	1.806513	1.770469	1.735415
22	1.825088	1.785440	1.746966	1.709599	1.673275	1.637938
24	1.737157	1.697223	1.658459	1.620800	1.584181	1.548547
26	1.656052	1.615816	1.576748	1.538782	1.501854	1.465908
28	1.580733	1.540181	1.500794	1.462507	1.425256	1.388985
30	1.510374	1.469491	1.429772	1.391151	1.353565	1.316957
32	1.444309	1.403082	1.363018	1.324050	1.286116	1.249160
34	1.381991	1.340407	1.299985	1.260658	1.222365	1.185050
36	1.322966	1.281014	1.240222	1.200525	1.161861	1.124177
38	1.266855	1.224521	1.183347	1.143269	1.104225	1.066161
40	1.213333	1.170606	1.129040	1.088570	1.049135	1.010683
42	1.162124	1.118992	1.077023	1.036150	.996317	.957466
44	1.112989	1.069441	1.027057	.985773	.945531	.906275
46	1.065719	1.021744	.978936	.937231	.896571	.856902
48	1.020132	.975719	.932478	.890342	.849257	.809167
50	.976066	.931206	.887520	.844946	.803427	.762909
52	.933379	.888060	.843921	.800900	.758939	.717988
54	.891941	.846154	.801553	.758076	.715667	.674275
56	.851638	.805373	.760301	.716360	.673496	.631658
58	.812366	.765613	.720060	.675649	.632323	.590032
60	.774030	.726779	.680738	.635847	.592053	.549306
62	.736543	.688784	.642246	.596870	.552601	.509392
64	.699825	.651550	.604506	.558637	.513888	.470212
66	.663804	.615002	.567445	.521075	.475841	.431694
68	.628411	.579073	.530994	.484118	.438392	.393771
70	.593581	.543699	.495091	.447700	.401478	.356378
72	.559257	.508820	.459674	.411764	.365040	.319458
74	.525381	.474380	.424688	.376251	.329021	.282954
76	.491899	.440326	.390080	.341111	.293369	.246814
78	.458762	.406606	.355799	.306290	.258033	.210987
80	.425919	.373171	.321795	.271742	.222965	.175425
82	.393325	.339976	.288023	.237418	.188117	.140082
84	.360934	.306973	.254435	.203273	.153445	.104911
86	.328700	.274118	.220988	.169263	.118902	.069870
88	.296581	.241369	.187638	.135344	.084447	.034913
90	.264534	.208681	.154341	.101472	.050037	.000000

		$Q_\nu(\cos \theta)$					
ν		-.10	-.08	-.06	-.04	-.02	.00
θ							
90		.264534	.208680	.154341	.101472	.050036	-.000000
92		.232516	.176011	.121054	.067605	.015627	-.034913
94		.200484	.143317	.087736	.033700	-.018824	-.069870
96		.168396	.110557	.054342	-.000285	-.053360	-.104911
98		.136209	.077685	.020829	-.034396	-.088024	-.140082
100		.103878	.044660	-.012846	-.068677	-.122861	-.175425
102		.071359	.011434	-.046732	-.103173	-.157916	-.210987
104		.038606	-.022038	-.080873	-.137930	-.193236	-.246814
106		.005570	-.055804	-.115318	-.172998	-.228870	-.282954
108		-.027796	-.089916	-.150118	-.208427	-.264867	-.319458
110		-.061547	-.124425	-.185325	-.244270	-.301282	-.356378
112		-.095737	-.159387	-.220995	-.280583	-.338170	-.393771
114		-.130423	-.194860	-.257187	-.317425	-.375589	-.431694
116		-.165667	-.230906	-.293964	-.354859	-.413605	-.470212
118		-.201535	-.267593	-.331394	-.392953	-.452283	-.509392
120		-.238097	-.304991	-.369548	-.431780	-.491697	-.549306
122		-.275430	-.343178	-.408504	-.471417	-.531925	-.590032
124		-.313617	-.382239	-.448348	-.511952	-.573054	-.631658
126		-.352750	-.422266	-.489174	-.553477	-.615177	-.674275
128		-.392927	-.463360	-.531082	-.596095	-.658398	-.717988
130		-.434259	-.505632	-.574187	-.639920	-.702830	-.762909
132		-.476869	-.549208	-.618613	-.685079	-.748600	-.809167
134		-.520893	-.594226	-.664502	-.731714	-.795851	-.856902
136		-.566485	-.640842	-.712012	-.779983	-.844741	-.906275
138		-.613820	-.689234	-.761322	-.830067	-.895454	-.957466
140		-.663096	-.739603	-.812635	-.882171	-.948193	-1.010683
142		-.714541	-.792181	-.866186	-.936533	-1.003198	-1.066161
144		-.768419	-.847237	-.922248	-.993426	-1.060743	-1.124177
146		-.825037	-.905082	-.981136	-1.053169	-1.121149	-1.185050
148		-.884758	-.966086	-1.043224	-1.116138	-1.184794	-1.249160
150		-.948015	-1.030687	-1.108957	-1.182784	-1.252128	-1.316957
152		-1.015325	-1.099416	-1.178871	-1.253645	-1.323696	-1.388985
154		-1.087325	-1.172917	-1.253619	-1.329382	-1.400159	-1.465908
156		-1.164799	-1.251989	-1.334012	-1.410812	-1.482339	-1.548547
158		-1.248737	-1.337639	-1.421069	-1.498965	-1.571271	-1.637938
160		-1.340410	-1.431162	-1.516102	-1.595164	-1.668285	-1.735415
162		-1.441490	-1.534258	-1.620836	-1.701151	-1.775134	-1.842730
164		-1.554241	-1.649232	-1.737607	-1.819283	-1.894186	-1.962257
166		-1.681831	-1.779312	-1.869687	-1.952864	-2.028765	-2.097324
168		-1.828902	-1.929222	-2.021865	-2.106731	-2.183733	-2.252802
170		-2.002645	-2.106284	-2.201567	-2.288381	-2.366632	-2.436246
172		-2.215102	-2.322761	-2.421225	-2.510369	-2.590090	-2.660306
174		-2.488840	-2.601634	-2.704145	-2.796232	-2.877780	-2.948700
176		-2.874514	-2.994487	-3.102637	-3.198801	-3.282847	-3.354673
178		-3.533730	-3.665902	-3.783608	-3.886646	-3.974858	-4.048125
180		-∞	-∞	-∞	-∞	-∞	-∞

ν	$Q_\nu(\cos \theta)$					
	.00	.02	.04	.06	.08	.10
θ						
0	∞	∞	∞	∞	∞	∞
2	4.048125	4.015668	3.984122	3.953440	3.923579	3.894501
4	3.354673	3.322140	3.290515	3.259753	3.229812	3.200650
6	2.948700	2.916055	2.884316	2.853438	2.823377	2.794094
8	2.660306	2.627518	2.595635	2.564610	2.534399	2.504963
10	2.436246	2.403290	2.371235	2.340035	2.309647	2.280031
12	2.252802	2.219654	2.187403	2.156005	2.125415	2.095594
14	2.097324	2.063961	2.031493	1.999874	1.969060	1.939014
16	1.962257	1.928660	1.895954	1.864095	1.833039	1.802746
18	1.842730	1.808880	1.775919	1.743802	1.712485	1.681929
20	1.735415	1.701296	1.668063	1.635671	1.604077	1.573241
22	1.637938	1.603534	1.570014	1.537332	1.505446	1.474316
24	1.548547	1.513843	1.480021	1.447035	1.414844	1.383407
26	1.465908	1.430891	1.396754	1.363452	1.330942	1.299187
28	1.388985	1.353642	1.319178	1.285547	1.252709	1.220624
30	1.316957	1.281276	1.246474	1.212504	1.179326	1.146901
32	1.249160	1.213130	1.177978	1.143659	1.110133	1.077360
34	1.185050	1.148661	1.113150	1.078473	1.044589	1.011460
36	1.124177	1.087419	1.051540	1.016496	.982247	.948755
38	1.066161	1.029025	.992770	.957352	.922730	.888869
40	1.010683	.973160	.936520	.900721	.865722	.831486
42	.957466	.919549	.882518	.846331	.810948	.776333
44	.906275	.867956	.830527	.793947	.758175	.723177
46	.856902	.818174	.780341	.743363	.707199	.671814
48	.809167	.770023	.731781	.694400	.657839	.622066
50	.762909	.723344	.684688	.646899	.609940	.573775
52	.717988	.677996	.638921	.600721	.563361	.526804
54	.674275	.633851	.594353	.555740	.517977	.481027
56	.631658	.590797	.550872	.511844	.473676	.436334
58	.590032	.548731	.508376	.468930	.430357	.392623
60	.549306	.507559	.466772	.426907	.387928	.349804
62	.509392	.467197	.425975	.385689	.346306	.307792
64	.470212	.427565	.385907	.345201	.305413	.266513
66	.431694	.388592	.346496	.305369	.265179	.225896
68	.393771	.350211	.307676	.266128	.225538	.185875
70	.356378	.312359	.269383	.227417	.186428	.146389
72	.319458	.274977	.231562	.189177	.147794	.107383
74	.282954	.238010	.194154	.151354	.109579	.068803
76	.246814	.201406	.157110	.113896	.071734	.030598
78	.210987	.165114	.120379	.076754	.034209	-.007279
80	.175425	.129086	.083914	.039880	-.003041	-.044876
82	.140082	.093276	.047668	.003230	-.040063	-.082236
84	.104911	.057639	.011597	-.033240	-.076899	-.119402
86	.069870	.022131	-.024341	-.069575	-.113593	-.156416
88	.034913	-.013290	-.060191	-.105815	-.150185	-.193319
90	.000000	-.048668	-.095995	-.142004	-.186716	-.230151

ν	$Q_\nu(\cos \theta)$					
	.00	.02	.04	.06	.08	.10
θ						
90	-.000000	-.048668	-.095995	-.142004	-.186717	-.230151
92	-.034913	-.084045	-.131794	-.178182	-.223229	-.266953
94	-.069870	-.119463	-.167629	-.214389	-.259762	-.303763
96	-.104911	-.154965	-.203544	-.250669	-.296357	-.340622
98	-.140082	-.190594	-.239581	-.287063	-.333055	-.377572
100	-.175425	-.226392	-.275782	-.323613	-.369898	-.414652
102	-.210987	-.262407	-.312194	-.360364	-.406930	-.451905
104	-.246814	-.298683	-.348860	-.397360	-.444195	-.489376
106	-.282954	-.335269	-.385830	-.434649	-.481739	-.527108
108	-.319458	-.372215	-.423152	-.472280	-.519610	-.565148
110	-.356378	-.409573	-.460878	-.510303	-.557857	-.603547
112	-.393771	-.447398	-.499063	-.548773	-.596535	-.642355
114	-.431694	-.485750	-.537765	-.587746	-.635699	-.681628
116	-.470212	-.524690	-.577046	-.627284	-.675409	-.721424
118	-.509392	-.564287	-.616972	-.667453	-.715730	-.761806
120	-.549306	-.604611	-.657615	-.708322	-.756730	-.802842
122	-.590032	-.645741	-.699052	-.749967	-.798485	-.844605
124	-.631658	-.687762	-.741368	-.792473	-.841076	-.887175
126	-.674275	-.730768	-.784654	-.835929	-.884592	-.930639
128	-.717988	-.774860	-.829012	-.880437	-.929133	-.975094
130	-.762909	-.820153	-.874554	-.926107	-.974806	-1.020646
132	-.809167	-.866771	-.921406	-.973062	-1.021733	-1.067413
134	-.856902	-.914858	-.969707	-1.021440	-1.070050	-1.115529
136	-.906275	-.964570	-1.019614	-1.071398	-1.119910	-1.165144
138	-.957466	-1.016089	-1.071308	-1.123111	-1.171486	-1.216427
140	-1.010683	-1.069620	-1.124991	-1.176780	-1.224977	-1.269573
142	-1.066161	-1.125400	-1.180898	-1.232638	-1.280610	-1.324803
144	-1.124177	-1.183702	-1.239300	-1.290953	-1.338649	-1.382378
146	-1.185050	-1.244846	-1.300514	-1.352038	-1.399402	-1.442599
148	-1.249160	-1.309209	-1.364916	-1.416262	-1.463234	-1.505823
150	-1.316957	-1.377240	-1.432950	-1.484068	-1.530580	-1.572475
152	-1.388985	-1.449481	-1.505155	-1.555987	-1.601961	-1.643070
154	-1.465908	-1.526594	-1.582188	-1.632668	-1.678019	-1.718234
156	-1.548547	-1.609398	-1.664862	-1.714915	-1.759545	-1.798745
158	-1.637938	-1.698926	-1.754203	-1.803745	-1.847540	-1.885583
160	-1.735415	-1.796508	-1.851532	-1.900464	-1.943290	-1.980011
162	-1.842730	-1.903892	-1.958586	-2.006789	-2.048489	-2.083690
164	-1.962257	-2.023446	-2.077717	-2.125049	-2.165432	-2.198872
166	-2.097324	-2.158489	-2.212224	-2.258508	-2.297335	-2.328716
168	-2.252802	-2.313883	-2.366938	-2.411948	-2.448911	-2.477845
170	-2.436246	-2.497163	-2.549348	-2.592781	-2.627469	-2.653434
172	-2.660306	-2.720955	-2.772001	-2.813430	-2.845253	-2.867504
174	-2.948700	-3.008926	-3.058423	-3.097182	-3.125224	-3.142598
176	-3.354673	-3.414213	-3.461431	-3.496329	-3.518941	-3.529336
178	-4.048125	-4.106374	-4.149576	-4.177746	-4.190944	-4.189277
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$Q_\nu(\cos \theta)$					
ν		.10	.12	.14	.16	.18	.20
θ							
0	∞	∞	∞	∞	∞	∞	∞
2	3.894501	3.866166	3.838540	3.811591	3.785288	3.759602	
4	3.200650	3.172230	3.144517	3.117479	3.091086	3.065308	
6	2.794094	2.765551	2.737713	2.710548	2.684024	2.658115	
8	2.504963	2.476265	2.448269	2.420943	2.394257	2.368182	
10	2.280031	2.251149	2.222968	2.195454	2.168577	2.142309	
12	2.095594	2.066506	2.038114	2.010387	1.983295	1.956809	
14	1.939014	1.909696	1.881072	1.853111	1.825782	1.799057	
16	1.802746	1.773180	1.744306	1.716091	1.688506	1.661523	
18	1.681929	1.652097	1.622954	1.594469	1.566612	1.539354	
20	1.573241	1.543128	1.513702	1.484931	1.456786	1.429240	
22	1.474316	1.443907	1.414184	1.385114	1.356669	1.328821	
24	1.383407	1.352689	1.322656	1.293276	1.264519	1.236359	
26	1.299187	1.268149	1.237795	1.208094	1.179016	1.150533	
28	1.220624	1.189256	1.158572	1.128540	1.099131	1.070319	
30	1.146901	1.115194	1.084171	1.053801	1.024055	.994906	
32	1.077360	1.045305	1.013935	.983220	.953130	.923639	
34	1.011460	.979051	.947328	.916262	.885823	.855986	
36	.948755	.915984	.883903	.852482	.821690	.791504	
38	.888869	.855733	.823289	.791507	.760361	.729823	
40	.831486	.797978	.765168	.733025	.701521	.670631	
42	.776333	.742451	.709271	.676764	.644902	.613661	
44	.723177	.688918	.655366	.622494	.590274	.558681	
46	.671814	.637175	.603251	.570013	.537436	.505495	
48	.622066	.587046	.552749	.519147	.486214	.453927	
50	.573775	.538373	.503704	.469739	.436454	.403825	
52	.526804	.491020	.455979	.421654	.388020	.355053	
54	.481027	.444862	.409451	.374769	.340790	.307492	
56	.436334	.399788	.364010	.328974	.294656	.261033	
58	.392623	.355699	.319558	.284173	.249521	.215581	
60	.349804	.312504	.276003	.240275	.205296	.171047	
62	.307792	.270121	.233264	.197199	.161901	.127352	
64	.266513	.228473	.191267	.154871	.119264	.084425	
66	.225896	.187492	.149942	.113223	.077315	.042198	
68	.185875	.147112	.109225	.072193	.035994	.000610	
70	.146389	.107274	.069058	.031721	-.004757	-.040395	
72	.107383	.067922	.029385	-.008246	-.044992	-.080871	
74	.068803	.029002	-.009845	-.047761	-.084763	-.120866	
76	.030598	-.009533	-.048684	-.086872	-.124115	-.160428	
78	-.007279	-.047734	-.087176	-.125624	-.163094	-.199601	
80	-.044876	-.085645	-.125367	-.164061	-.201743	-.238426	
82	-.082236	-.123309	-.163300	-.202226	-.240102	-.276942	
84	-.119402	-.160768	-.201014	-.240158	-.278212	-.315190	
86	-.156416	-.198064	-.238552	-.277896	-.316110	-.353205	
88	-.193319	-.235236	-.275952	-.315480	-.353834	-.391024	
90	-.230151	-.272325	-.313252	-.352947	-.391421	-.428683	

ν	$Q_\nu(\cos \theta)$					
	.10	.12	.14	.16	.18	.20
θ						
90	-.230151	-.272325	-.313253	-.352947	-.391421	-.428684
92	-.266953	-.309369	-.350492	-.390334	-.428906	-.466218
94	-.303763	-.346408	-.387709	-.427679	-.466326	-.503661
96	-.340622	-.383480	-.424941	-.465017	-.503716	-.541048
98	-.377572	-.420626	-.462228	-.502388	-.541114	-.578414
100	-.414652	-.457885	-.499608	-.539828	-.578555	-.615794
102	-.451905	-.495299	-.537121	-.577378	-.616077	-.653224
104	-.489376	-.532911	-.574808	-.615076	-.653718	-.690742
106	-.527108	-.570764	-.612713	-.652963	-.691519	-.728384
108	-.565148	-.608903	-.650880	-.691084	-.729520	-.766191
110	-.603547	-.647378	-.689355	-.729482	-.767764	-.804205
112	-.642355	-.686238	-.728187	-.768206	-.806298	-.842467
114	-.681628	-.725537	-.767428	-.807304	-.845169	-.881026
116	-.721424	-.765332	-.807133	-.846832	-.884429	-.919928
118	-.761806	-.805683	-.847362	-.886845	-.924132	-.959228
120	-.802842	-.846659	-.888179	-.927405	-.964338	-.998981
122	-.844605	-.888328	-.929652	-.968580	-1.005111	-1.039248
124	-.887175	-.930770	-.971858	-1.010441	-1.046520	-1.080096
126	-.930639	-.974068	-1.014878	-1.053069	-1.088641	-1.121598
128	-.975094	-1.018318	-1.058804	-1.096551	-1.131560	-1.163835
130	-1.020646	-1.063623	-1.103736	-1.140984	-1.175369	-1.206894
132	-1.067413	-1.110099	-1.149787	-1.186477	-1.220172	-1.250876
134	-1.115529	-1.157874	-1.197081	-1.233151	-1.266086	-1.295892
136	-1.165144	-1.207095	-1.245761	-1.281141	-1.313241	-1.342065
138	-1.216427	-1.257928	-1.295987	-1.330605	-1.361786	-1.389540
140	-1.269573	-1.310562	-1.347943	-1.381718	-1.411893	-1.438478
142	-1.324803	-1.365213	-1.401839	-1.434684	-1.463756	-1.489067
144	-1.382378	-1.422135	-1.457921	-1.489741	-1.517603	-1.541524
146	-1.442599	-1.481623	-1.516476	-1.547164	-1.573700	-1.596102
148	-1.505823	-1.544024	-1.577840	-1.607281	-1.632362	-1.653103
150	-1.572475	-1.609754	-1.642419	-1.670482	-1.693962	-1.712885
152	-1.643070	-1.679313	-1.710698	-1.737237	-1.758955	-1.775881
154	-1.718234	-1.753315	-1.783272	-1.808122	-1.827893	-1.842620
156	-1.798745	-1.832518	-1.860879	-1.883850	-1.901463	-1.913760
158	-1.885583	-1.917881	-1.944451	-1.965322	-1.980532	-1.990130
160	-1.980011	-2.010635	-2.035186	-2.053698	-2.066216	-2.072798
162	-2.083690	-2.112405	-2.134663	-2.150505	-2.159986	-2.163172
164	-2.198872	-2.225391	-2.245021	-2.257814	-2.263835	-2.263162
166	-2.328716	-2.352677	-2.369261	-2.378531	-2.380561	-2.375446
168	-2.477845	-2.498783	-2.511781	-2.516910	-2.514263	-2.503950
170	-2.653434	-2.670722	-2.679400	-2.679557	-2.671302	-2.654766
172	-2.867504	-2.880242	-2.883552	-2.877540	-2.862341	-2.838110
174	-3.142598	-3.149380	-3.145677	-3.131623	-3.107381	-3.073143
176	-3.529336	-3.527618	-3.513927	-3.488434	-3.451347	-3.402907
178	-4.189277	-4.172395	-4.141995	-4.096817	-4.037644	-3.964805
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$Q_\nu(\cos \theta)$					
ν		.20	.22	.24	.26	.28	.30
θ							
0		∞	∞	∞	∞	∞	∞
2		3.759602	3.734506	3.709976	3.685988	3.662520	3.639550
4		3.065308	3.040119	3.015495	2.991409	2.967843	2.944773
6		2.658115	2.632792	2.608031	2.583808	2.560101	2.536888
8		2.368182	2.342692	2.317761	2.293366	2.269484	2.246095
10		2.142309	2.116622	2.091493	2.066897	2.042812	2.019218
12		1.956809	1.930902	1.905550	1.880728	1.856416	1.832592
14		1.799057	1.772908	1.747312	1.722245	1.697684	1.673610
16		1.661523	1.635114	1.609256	1.583924	1.559098	1.534755
18		1.539354	1.512669	1.486532	1.460921	1.435813	1.411188
20		1.429240	1.402264	1.375836	1.349931	1.324529	1.299608
22		1.328821	1.301543	1.274811	1.248602	1.222894	1.197668
24		1.236359	1.208768	1.181722	1.155199	1.129177	1.103637
26		1.150533	1.122620	1.095252	1.068408	1.042065	1.016204
28		1.070319	1.042076	1.014380	.987208	.960539	.934353
30		.994906	.966328	.938298	.910793	.883794	.857280
32		.923639	.894721	.866354	.838514	.811182	.784338
34		.855986	.826725	.798017	.769840	.742175	.715001
36		.791504	.761897	.732848	.704333	.676335	.648832
38		.729823	.699870	.670479	.641628	.613297	.585469
40		.670631	.640331	.610599	.581413	.552755	.524605
42		.613661	.583015	.552944	.523427	.494444	.465978
44		.558681	.527692	.497286	.467441	.438140	.409365
46		.505495	.474166	.443428	.413262	.383649	.354571
48		.453927	.422262	.391198	.360717	.330800	.301430
50		.403825	.371829	.340446	.309657	.279444	.249792
52		.355053	.322732	.291037	.259950	.229452	.199528
54		.307492	.274853	.242855	.211478	.180706	.150524
56		.261033	.228085	.195792	.164137	.133104	.102677
58		.215581	.182331	.149755	.117834	.086553	.055896
60		.171047	.137506	.104658	.072483	.040968	.010098
62		.127352	.093532	.060423	.028009	-.003723	-.034789
64		.084425	.050336	.016980	-.015657	-.047591	-.078835
66		.042198	.007853	-.025734	-.058580	-.090698	-.122101
68		.000610	-.033976	-.067780	-.100818	-.133100	-.164641
70		-.040395	-.075209	-.109214	-.142424	-.174851	-.206508
72		-.080871	-.115897	-.150085	-.183448	-.215999	-.247748
74		-.120866	-.156088	-.190440	-.223937	-.256589	-.288406
76		-.160428	-.195828	-.230325	-.263933	-.296662	-.328523
78		-.199601	-.235159	-.269781	-.303478	-.336260	-.368136
80		-.238426	-.274123	-.308848	-.342609	-.375418	-.407282
82		-.276942	-.312759	-.347563	-.381364	-.414172	-.445995
84		-.315190	-.351103	-.385963	-.419778	-.452556	-.484307
86		-.353205	-.389193	-.424082	-.457883	-.490603	-.522249
88		-.391024	-.427062	-.461955	-.495713	-.528342	-.559850
90		-.428683	-.464745	-.499615	-.533299	-.565805	-.597140

		$Q_\nu(\cos \theta)$					
ν		.20	.22	.24	.26	.28	.30
θ							
90		-.428684	-.464746	-.499615	-.533299	-.565806	-.597140
92		-.466218	-.502277	-.537093	-.570672	-.603021	-.634146
94		-.503661	-.539690	-.574422	-.607863	-.640019	-.670896
96		-.541048	-.577018	-.611634	-.644902	-.676827	-.707415
98		-.578414	-.614293	-.648760	-.681818	-.713474	-.743733
100		-.615794	-.651551	-.685833	-.718644	-.749990	-.779875
102		-.653224	-.688825	-.722885	-.755409	-.786402	-.815868
104		-.690742	-.726151	-.759951	-.792146	-.822741	-.851740
106		-.728384	-.763564	-.797063	-.828886	-.859036	-.887519
108		-.766191	-.801103	-.834259	-.865663	-.895320	-.923234
110		-.804205	-.838807	-.871574	-.902512	-.931624	-.958915
112		-.842467	-.876716	-.909049	-.939470	-.967983	-.994595
114		-.881026	-.914876	-.946724	-.976575	-1.004433	-1.030305
116		-.919928	-.953332	-.984644	-1.013869	-1.041012	-1.066080
118		-.959228	-.992134	-1.022854	-1.051395	-1.077761	-1.101960
120		-.998981	-1.031335	-1.061407	-1.089200	-1.114723	-1.137983
122		-1.039248	-1.070994	-1.100355	-1.127336	-1.151946	-1.174194
124		-1.080096	-1.111174	-1.139760	-1.165859	-1.189482	-1.210639
126		-1.121598	-1.151944	-1.179685	-1.204829	-1.227386	-1.247370
128		-1.163835	-1.193380	-1.220203	-1.244313	-1.265722	-1.284445
130		-1.206894	-1.235566	-1.261392	-1.284385	-1.304557	-1.321926
132		-1.250876	-1.278597	-1.303343	-1.325129	-1.343970	-1.359885
134		-1.295892	-1.322577	-1.346153	-1.366636	-1.384044	-1.398399
136		-1.342065	-1.367626	-1.389936	-1.409013	-1.424879	-1.437559
138		-1.389540	-1.413878	-1.434817	-1.452377	-1.466583	-1.477465
140		-1.438478	-1.461489	-1.480943	-1.496866	-1.509285	-1.518233
142		-1.489067	-1.510635	-1.528482	-1.542635	-1.553128	-1.559997
144		-1.541524	-1.561523	-1.577627	-1.589867	-1.598281	-1.602913
146		-1.596102	-1.614394	-1.628606	-1.638775	-1.644944	-1.647162
148		-1.653103	-1.669534	-1.681690	-1.689612	-1.693350	-1.692959
150		-1.712885	-1.727284	-1.737199	-1.742679	-1.743779	-1.740563
152		-1.775881	-1.788054	-1.795522	-1.798339	-1.796569	-1.790284
154		-1.842620	-1.852350	-1.857135	-1.857039	-1.852135	-1.842504
156		-1.913760	-1.920794	-1.922627	-1.919332	-1.910991	-1.897695
158		-1.990130	-1.994177	-1.992746	-1.985918	-1.973787	-1.956457
160		-2.072798	-2.073515	-2.068449	-2.057696	-2.041361	-2.019562
162		-2.163172	-2.160147	-2.151006	-2.135855	-2.114817	-2.088026
164		-2.263162	-2.255891	-2.242131	-2.222007	-2.195656	-2.163232
166		-2.375446	-2.363295	-2.344237	-2.318413	-2.285982	-2.247119
168		-2.503950	-2.486099	-2.460857	-2.428391	-2.388883	-2.342532
170		-2.654766	-2.630101	-2.597478	-2.557091	-2.509151	-2.453891
172		-2.838110	-2.805028	-2.763298	-2.713149	-2.654828	-2.588606
174		-3.073143	-3.029127	-2.975579	-2.912770	-2.840999	-2.760587
176		-3.402907	-3.343388	-3.273095	-3.192365	-3.101565	-3.001091
178		-3.964805	-3.878668	-3.779643	-3.668180	-3.544765	-3.409923
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

ν	$Q_\nu(\cos \theta)$					
	.30	.32	.34	.36	.38	.40
θ						
0	∞	∞	∞	∞	∞	∞
2	3.639550	3.617058	3.595027	3.573438	3.552274	3.531521
4	2.944773	2.922180	2.900046	2.878352	2.857083	2.836223
6	2.536888	2.514151	2.491871	2.470029	2.448610	2.427597
8	2.246095	2.223179	2.200718	2.178693	2.157089	2.135889
10	2.019218	1.996094	1.973423	1.951186	1.929368	1.907952
12	1.832592	1.809237	1.786332	1.763859	1.741802	1.720146
14	1.673610	1.650002	1.626843	1.604114	1.581799	1.559883
16	1.534755	1.510877	1.487447	1.464445	1.441856	1.419664
18	1.411188	1.387026	1.363309	1.340021	1.317144	1.294663
20	1.299608	1.275150	1.251136	1.227550	1.204374	1.181595
22	1.197668	1.172903	1.148583	1.124690	1.101208	1.078122
24	1.103637	1.078559	1.053925	1.029719	1.005924	.982526
26	1.016204	.990806	.965854	.941330	.917219	.893506
28	.934353	.908631	.883357	.858513	.834083	.810054
30	.857280	.831232	.805634	.780469	.755721	.731377
32	.784338	.757963	.732042	.706557	.681493	.656837
34	.715001	.688300	.662057	.636255	.610879	.585915
36	.648832	.621808	.595247	.569132	.543448	.518183
38	.585469	.558126	.531250	.504828	.478844	.453286
40	.524605	.496946	.469764	.443042	.416766	.390924
42	.465978	.438012	.410529	.383516	.356959	.330843
44	.409365	.381098	.353325	.326031	.299203	.272827
46	.354571	.326013	.297960	.270397	.243311	.216689
48	.301430	.272591	.244268	.216449	.189120	.162268
50	.249792	.220683	.192105	.164044	.136487	.109422
52	.199528	.170164	.141344	.113056	.085288	.058029
54	.150524	.120917	.091871	.063374	.035414	.007980
56	.102677	.072843	.043588	.014900	-.013232	-.040819
58	.055896	.025851	-.003595	-.032454	-.060738	-.088456
60	.010098	-.020139	-.049757	-.078768	-.107180	-.135004
62	-.034789	-.065202	-.094972	-.124110	-.152628	-.180533
64	-.078835	-.109402	-.139302	-.168545	-.197142	-.225101
66	-.122101	-.152800	-.182807	-.212130	-.240780	-.268765
68	-.164641	-.195451	-.225540	-.254917	-.283593	-.311573
70	-.206508	-.237404	-.267550	-.296954	-.325625	-.353571
72	-.247748	-.278706	-.308882	-.338284	-.366920	-.394798
74	-.288406	-.319400	-.349577	-.378947	-.407516	-.435292
76	-.328523	-.359524	-.389673	-.418979	-.447448	-.475087
78	-.368136	-.399116	-.429207	-.458416	-.486750	-.514215
80	-.407282	-.438211	-.468211	-.497288	-.525451	-.552703
82	-.445995	-.476841	-.506716	-.535627	-.563579	-.590580
84	-.484307	-.515037	-.544752	-.573458	-.601162	-.627868
86	-.522249	-.552828	-.582347	-.610810	-.638224	-.664593
88	-.559850	-.590243	-.619527	-.647706	-.674787	-.700774
90	-.597140	-.627309	-.656318	-.684172	-.710876	-.736434

ν	$Q_\nu(\cos \theta)$					
	.30	.32	.34	.36	.38	.40
θ						
90	-.597140	-.627309	-.656318	-.684172	-.710876	-.736435
92	-.634146	-.664052	-.692745	-.720229	-.746510	-.771592
94	-.670896	-.700498	-.728831	-.755901	-.781710	-.806265
96	-.707415	-.736672	-.764600	-.791207	-.816496	-.840472
98	-.743733	-.772598	-.800076	-.826171	-.850887	-.874231
100	-.779875	-.808303	-.835281	-.860812	-.884902	-.907557
102	-.815868	-.843811	-.870238	-.895152	-.918560	-.940468
104	-.851740	-.879148	-.904970	-.929212	-.951880	-.972979
106	-.887519	-.914339	-.939502	-.963013	-.984880	-1.005108
108	-.923234	-.949411	-.973856	-.996577	-1.017579	-1.036872
110	-.958915	-.984392	-1.008059	-1.029925	-1.049998	-1.068285
112	-.994595	-1.019310	-1.042136	-1.063082	-1.082156	-1.099367
114	-1.030305	-1.054196	-1.076115	-1.096071	-1.114074	-1.130135
116	-1.066080	-1.089081	-1.110024	-1.128918	-1.145775	-1.160608
118	-1.101960	-1.124001	-1.143893	-1.161649	-1.177281	-1.190805
120	-1.137983	-1.158991	-1.177757	-1.194295	-1.208619	-1.220748
122	-1.174194	-1.194090	-1.211649	-1.226885	-1.239815	-1.250459
124	-1.210639	-1.229342	-1.245608	-1.259454	-1.270898	-1.279963
126	-1.247370	-1.264795	-1.279678	-1.292039	-1.301900	-1.309286
128	-1.284445	-1.300499	-1.313903	-1.324680	-1.332856	-1.338458
130	-1.321926	-1.336511	-1.348335	-1.357423	-1.363804	-1.367510
132	-1.359885	-1.372897	-1.383032	-1.390318	-1.394789	-1.396479
134	-1.398399	-1.409727	-1.418056	-1.423421	-1.425857	-1.425405
136	-1.437559	-1.447082	-1.453482	-1.456795	-1.457064	-1.454334
138	-1.477465	-1.485054	-1.489390	-1.490514	-1.488473	-1.483318
140	-1.518233	-1.523748	-1.525875	-1.524659	-1.520153	-1.512416
142	-1.559997	-1.563287	-1.563045	-1.559326	-1.552189	-1.541696
144	-1.602913	-1.603810	-1.601028	-1.594627	-1.584674	-1.571239
146	-1.647162	-1.645483	-1.639971	-1.630692	-1.617721	-1.601139
148	-1.692959	-1.688502	-1.680049	-1.667675	-1.651465	-1.631506
150	-1.740563	-1.733101	-1.721472	-1.705762	-1.686063	-1.662474
152	-1.790284	-1.779563	-1.764495	-1.745175	-1.721708	-1.694204
154	-1.842504	-1.828235	-1.809428	-1.786190	-1.758638	-1.726895
156	-1.897695	-1.879547	-1.856657	-1.829147	-1.797145	-1.760791
158	-1.956457	-1.934044	-1.906672	-1.874477	-1.837604	-1.796207
160	-2.019562	-1.992429	-1.960104	-1.922738	-1.880493	-1.833543
162	-2.088026	-2.055629	-2.017784	-1.974663	-1.926448	-1.873333
164	-2.163232	-2.124901	-2.080843	-2.031251	-1.976330	-1.916298
166	-2.247119	-2.202013	-2.150868	-2.093903	-2.031350	-1.963454
168	-2.342532	-2.289557	-2.230190	-2.164679	-2.093287	-2.016293
170	-2.453891	-2.391559	-2.322425	-2.246772	-2.164903	-2.077133
172	-2.588606	-2.514775	-2.433646	-2.345549	-2.250833	-2.149864
174	-2.760587	-2.671880	-2.575247	-2.471078	-2.359783	-2.241791
176	-3.001091	-2.891367	-2.772842	-2.645994	-2.511318	-2.369337
178	-3.409923	-3.264213	-3.108225	-2.942582	-2.767935	-2.584961
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

ν	$Q_\nu(\cos \theta)$					
θ	.40	.42	.44	.46	.48	.50
0	∞	∞	∞	∞	∞	∞
2	3.531521	3.511163	3.491186	3.471575	3.452320	3.433407
4	2.836223	2.815755	2.795667	2.775946	2.756577	2.737549
6	2.427597	2.406976	2.386733	2.366854	2.347325	2.328137
8	2.135889	2.115078	2.094644	2.074571	2.054848	2.035462
10	1.907952	1.886923	1.866268	1.845974	1.826027	1.806415
12	1.720146	1.698876	1.677977	1.657437	1.637243	1.617382
14	1.559883	1.538352	1.517190	1.496386	1.475925	1.455797
16	1.419664	1.397855	1.376415	1.355331	1.334590	1.314180
18	1.294663	1.272565	1.250834	1.229459	1.208426	1.187724
20	1.181595	1.159197	1.137167	1.115491	1.094158	1.073156
22	1.078122	1.055418	1.033081	1.011100	.989462	.968155
24	.982526	.959510	.936864	.914574	.892628	.871015
26	.893506	.870177	.847218	.824618	.802365	.780446
28	.810054	.786412	.763142	.740234	.717674	.695453
30	.731377	.707423	.683845	.660632	.637771	.615253
32	.656837	.632574	.608693	.585180	.562025	.539217
34	.585915	.561349	.537171	.513366	.489925	.466837
36	.518183	.493322	.468855	.444768	.421052	.397695
38	.453286	.428139	.403393	.379035	.355056	.331444
40	.390924	.365501	.340488	.315873	.291645	.267794
42	.330843	.305158	.279892	.255033	.230572	.206500
44	.272827	.246893	.221388	.196303	.171628	.147352
46	.216689	.190521	.164796	.139502	.114631	.090174
48	.162268	.135883	.109955	.084473	.059428	.034811
50	.109422	.082839	.056728	.031079	.005882	-.018869
52	.058029	.031268	.004995	-.020797	-.046121	-.070982
54	.007980	-.018936	-.045348	-.071261	-.096686	-.121628
56	-.040819	-.067871	-.094396	-.120403	-.145901	-.170896
58	-.088456	-.115617	-.142230	-.168304	-.193846	-.218863
60	-.135004	-.162249	-.188923	-.215034	-.240590	-.265596
62	-.180533	-.207834	-.234540	-.260658	-.286194	-.311156
64	-.225101	-.252431	-.279138	-.305231	-.330715	-.355596
66	-.268765	-.296093	-.322769	-.348803	-.374199	-.398964
68	-.311573	-.338867	-.365480	-.391420	-.416691	-.441300
70	-.353571	-.380798	-.407313	-.433122	-.458230	-.482643
72	-.394798	-.421924	-.448304	-.473944	-.498850	-.523026
74	-.435292	-.462281	-.488489	-.513921	-.538582	-.562478
76	-.475087	-.501902	-.527898	-.553081	-.577455	-.601025
78	-.514215	-.540817	-.566560	-.591450	-.615493	-.638691
80	-.552703	-.579051	-.604500	-.629054	-.652718	-.675497
82	-.590580	-.616632	-.641742	-.665914	-.689152	-.711461
84	-.627868	-.653582	-.678307	-.702049	-.724812	-.746601
86	-.664593	-.689922	-.714216	-.737479	-.759716	-.780931
88	-.700774	-.725672	-.749486	-.772219	-.793877	-.814464
90	-.736434	-.760852	-.784135	-.806285	-.827310	-.847213

ν	$Q_\nu(\cos \theta)$					
	.40	.42	.44	.46	.48	.50
θ						
90	-.736435	-.760853	-.784135	-.806286	-.827310	-.847213
92	-.771592	-.795480	-.818178	-.839692	-.860027	-.879187
94	-.806265	-.829571	-.851631	-.872452	-.892039	-.910396
96	-.840472	-.863141	-.884507	-.904577	-.923355	-.940849
98	-.874231	-.896206	-.916820	-.936078	-.953986	-.970551
100	-.907557	-.928781	-.948582	-.966966	-.983940	-.999511
102	-.940468	-.960880	-.979806	-.997251	-1.013224	-1.027733
104	-.972979	-.992518	-1.010503	-1.026942	-1.041846	-1.055223
106	-1.005108	-1.023707	-1.040684	-1.056049	-1.069812	-1.081984
108	-1.036872	-1.054463	-1.070362	-1.084580	-1.097129	-1.108021
110	-1.068285	-1.084798	-1.099547	-1.112544	-1.123803	-1.133336
112	-1.099367	-1.114728	-1.128251	-1.139950	-1.149838	-1.157933
114	-1.130135	-1.144268	-1.156486	-1.166804	-1.175241	-1.181814
116	-1.160608	-1.173432	-1.184263	-1.193118	-1.200016	-1.204979
118	-1.190805	-1.202237	-1.211594	-1.218898	-1.224170	-1.227432
120	-1.220748	-1.230700	-1.238494	-1.244155	-1.247706	-1.249174
122	-1.250459	-1.258838	-1.264976	-1.268897	-1.270630	-1.270205
124	-1.279963	-1.286673	-1.291054	-1.293135	-1.292948	-1.290526
126	-1.309286	-1.314224	-1.316745	-1.316880	-1.314665	-1.310137
128	-1.338458	-1.341516	-1.342066	-1.340143	-1.335787	-1.329040
130	-1.367510	-1.368575	-1.367037	-1.362938	-1.356321	-1.347234
132	-1.396479	-1.395428	-1.391680	-1.385279	-1.376274	-1.364720
134	-1.425405	-1.422109	-1.416017	-1.407181	-1.395654	-1.381497
136	-1.454334	-1.448654	-1.440078	-1.428663	-1.414470	-1.397564
138	-1.483318	-1.475105	-1.463892	-1.449745	-1.432731	-1.412923
140	-1.512416	-1.501508	-1.487496	-1.470451	-1.450450	-1.427572
142	-1.541696	-1.527918	-1.510929	-1.490808	-1.467640	-1.441511
144	-1.571239	-1.554401	-1.534241	-1.510848	-1.484315	-1.454740
146	-1.601139	-1.581030	-1.557487	-1.530608	-1.500495	-1.467258
148	-1.631506	-1.607895	-1.580734	-1.550132	-1.516202	-1.479064
150	-1.662474	-1.635103	-1.604063	-1.569473	-1.531461	-1.490159
152	-1.694204	-1.662782	-1.627569	-1.588697	-1.546305	-1.500540
154	-1.726895	-1.691093	-1.651373	-1.607882	-1.560773	-1.510209
156	-1.760791	-1.720232	-1.675623	-1.627127	-1.574915	-1.519164
158	-1.796207	-1.750450	-1.700507	-1.646558	-1.588791	-1.527405
160	-1.833543	-1.782071	-1.726268	-1.666336	-1.602485	-1.534931
162	-1.873333	-1.815522	-1.753229	-1.686678	-1.616102	-1.541742
164	-1.916298	-1.851383	-1.781825	-1.707874	-1.629788	-1.547838
166	-1.963454	-1.890471	-1.812672	-1.730335	-1.643750	-1.553217
168	-2.016293	-1.933987	-1.846673	-1.754664	-1.658288	-1.557880
170	-2.077133	-1.983794	-1.885231	-1.781801	-1.673873	-1.561826
172	-2.149864	-2.043022	-1.930705	-1.813322	-1.691294	-1.565055
174	-2.241791	-2.117550	-1.987522	-1.852186	-1.712033	-1.567566
176	-2.369337	-2.220591	-2.065637	-1.905053	-1.739426	-1.569360
178	-2.584961	-2.394361	-2.196858	-1.993195	-1.784130	-1.570437
180	-∞	-∞	-∞	-∞	-∞	-1.570796

ν	$Q_\nu(\cos \theta)$					
	.50	.52	.54	.56	.58	.60
θ						
0	∞	∞	∞	∞	∞	∞
2	3.433407	3.414824	3.396562	3.378609	3.360955	3.343592
4	2.737549	2.718851	2.700470	2.682398	2.664625	2.647139
6	2.328137	2.309275	2.290731	2.272493	2.254551	2.236896
8	2.035462	2.016402	1.997657	1.979216	1.961070	1.943209
10	1.806415	1.787127	1.768152	1.749481	1.731102	1.713006
12	1.617382	1.597844	1.578617	1.559691	1.541057	1.522705
14	1.455797	1.435990	1.416493	1.397297	1.378391	1.359765
16	1.314180	1.294091	1.274311	1.254830	1.235639	1.216728
18	1.187724	1.167341	1.147268	1.127493	1.108008	1.088804
20	1.073156	1.052474	1.032101	1.012027	.992243	.972740
22	.968155	.947169	.926493	.906118	.886033	.866230
24	.871015	.849724	.828745	.808067	.787683	.767583
26	.780446	.758852	.737571	.716596	.695916	.675523
28	.695453	.673559	.651983	.630715	.609746	.589067
30	.615252	.593066	.571200	.549648	.528399	.507445
32	.539217	.516745	.494601	.472774	.451257	.430041
34	.466837	.444092	.421680	.399592	.377821	.356358
36	.397695	.374689	.352023	.329690	.307681	.285988
38	.331444	.308191	.285288	.262726	.240498	.218594
40	.267794	.244312	.221189	.198418	.175990	.153898
42	.206500	.182807	.159484	.136524	.113920	.091664
44	.147352	.123469	.099968	.076843	.054087	.031692
46	.090174	.066122	.042467	.019202	-.003679	-.026185
48	.034811	.010615	-.013168	-.036547	-.059526	-.082113
50	-.018869	-.043184	-.067069	-.090532	-.113579	-.136215
52	-.070982	-.095388	-.119346	-.142863	-.165945	-.188598
54	-.121628	-.146096	-.170097	-.193636	-.216719	-.239353
56	-.170896	-.195396	-.219406	-.242933	-.265982	-.288559
58	-.218863	-.243361	-.267347	-.290827	-.313805	-.336287
60	-.265596	-.290059	-.313986	-.337380	-.360249	-.382595
62	-.311156	-.335549	-.359378	-.382649	-.405367	-.427536
64	-.355596	-.379881	-.403575	-.426682	-.449207	-.471154
66	-.398964	-.423102	-.446620	-.469520	-.491809	-.513490
68	-.441300	-.465252	-.488551	-.511202	-.533209	-.554576
70	-.482643	-.506366	-.529404	-.551759	-.573438	-.594442
72	-.523026	-.546477	-.569207	-.591221	-.612522	-.633114
74	-.562478	-.585611	-.607988	-.629611	-.650485	-.670613
76	-.601025	-.623795	-.645769	-.666952	-.687347	-.706958
78	-.638691	-.661049	-.682572	-.703263	-.723125	-.742164
80	-.675497	-.697393	-.718413	-.738559	-.757835	-.776245
82	-.711461	-.732845	-.753308	-.772854	-.791487	-.809212
84	-.746601	-.767419	-.787271	-.806161	-.824093	-.841073
86	-.780931	-.801128	-.820313	-.838489	-.855661	-.871835
88	-.814464	-.833985	-.852444	-.869847	-.886198	-.901503
90	-.847213	-.865998	-.883673	-.900241	-.915708	-.930081

ν	$Q_\nu(\cos \theta)$					
θ	.50	.52	.54	.56	.58	.60
90	-.847213	-.865999	-.883673	-.900241	-.915709	-.930081
92	-.879187	-.897178	-.914006	-.929677	-.944196	-.957571
94	-.910396	-.927531	-.943450	-.958158	-.971664	-.983974
96	-.940848	-.957064	-.972008	-.985688	-.998112	-1.009289
98	-.970551	-.985781	-.999684	-1.012268	-1.023541	-1.033513
100	-.999511	-1.013689	-1.026481	-1.037898	-1.047949	-1.056646
102	-1.027733	-1.040789	-1.052400	-1.062578	-1.071334	-1.078680
104	-1.055223	-1.067084	-1.077441	-1.086306	-1.093692	-1.099613
106	-1.081984	-1.092578	-1.101605	-1.109081	-1.115019	-1.119436
108	-1.108021	-1.117270	-1.124890	-1.130897	-1.135309	-1.138143
110	-1.133336	-1.141161	-1.147294	-1.151752	-1.154556	-1.155724
112	-1.157933	-1.164252	-1.168815	-1.171640	-1.172751	-1.172170
114	-1.181814	-1.186542	-1.189448	-1.190555	-1.189886	-1.187468
116	-1.204979	-1.208029	-1.209190	-1.208488	-1.205950	-1.201605
118	-1.227432	-1.228712	-1.228035	-1.225432	-1.220932	-1.214568
120	-1.249174	-1.248587	-1.245977	-1.241376	-1.234818	-1.226339
122	-1.270205	-1.267653	-1.263009	-1.256310	-1.247594	-1.236901
124	-1.290526	-1.285904	-1.279123	-1.270221	-1.259243	-1.246233
126	-1.310137	-1.303338	-1.294309	-1.283096	-1.269747	-1.254312
128	-1.329040	-1.319947	-1.308556	-1.294917	-1.279084	-1.261112
130	-1.347234	-1.335727	-1.321853	-1.305668	-1.287231	-1.266604
132	-1.364720	-1.350671	-1.334186	-1.315328	-1.294162	-1.270756
134	-1.381497	-1.364770	-1.345539	-1.323874	-1.299846	-1.273530
136	-1.397564	-1.378015	-1.355895	-1.331279	-1.304248	-1.274884
138	-1.412923	-1.390397	-1.365232	-1.337514	-1.307329	-1.274769
140	-1.427572	-1.401902	-1.373528	-1.342543	-1.309042	-1.273128
142	-1.441511	-1.412517	-1.380755	-1.346326	-1.309336	-1.269895
144	-1.454740	-1.422226	-1.386880	-1.348815	-1.308147	-1.264996
146	-1.467258	-1.431009	-1.391867	-1.349956	-1.305402	-1.258338
148	-1.479064	-1.438844	-1.395671	-1.349682	-1.301015	-1.249815
150	-1.490159	-1.445703	-1.398238	-1.347913	-1.294880	-1.239297
152	-1.500540	-1.451554	-1.399504	-1.344553	-1.286870	-1.226627
154	-1.510209	-1.456357	-1.399389	-1.339485	-1.276830	-1.211612
156	-1.519164	-1.460060	-1.397794	-1.332561	-1.264564	-1.194011
158	-1.527405	-1.462602	-1.394593	-1.323594	-1.249826	-1.173516
160	-1.534931	-1.463901	-1.389624	-1.312341	-1.232294	-1.149732
162	-1.541742	-1.463848	-1.382674	-1.298485	-1.211547	-1.122134
164	-1.547838	-1.462297	-1.373451	-1.281589	-1.187007	-1.090006
166	-1.553217	-1.459043	-1.361544	-1.261041	-1.157863	-1.052342
168	-1.557880	-1.453783	-1.346351	-1.235942	-1.122922	-1.007659
170	-1.561826	-1.446048	-1.326935	-1.204892	-1.080326	-.953652
172	-1.565055	-1.435047	-1.301722	-1.165537	-1.026955	-.886444
174	-1.567566	-1.419299	-1.267752	-1.113455	-.956941	-.798746
176	-1.569361	-1.395469	-1.218372	-1.038699	-.857082	-.674157
178	-1.570437	-1.352900	-1.132313	-.909474	-.685186	-.460252
180	-1.570796	∞	∞	∞	∞	∞

ν	$Q_\nu(\cos \theta)$					
θ	.60	.62	.64	.66	.68	.70
0	∞	∞	∞	∞	∞	∞
2	3.343592	3.326509	3.309698	3.293151	3.276860	3.260817
4	2.647139	2.629933	2.612998	2.596325	2.579907	2.563736
6	2.236896	2.219519	2.202411	2.185564	2.168969	2.152621
8	1.943209	1.925624	1.908306	1.891248	1.874441	1.857878
10	1.713006	1.695185	1.677630	1.660332	1.643285	1.626480
12	1.522705	1.504627	1.486812	1.469254	1.451945	1.434876
14	1.359765	1.341412	1.323322	1.305488	1.287901	1.270555
16	1.216728	1.198088	1.179712	1.161590	1.143716	1.126082
18	1.088804	1.069870	1.051200	1.032785	1.014617	.996690
20	.972740	.953509	.934541	.915830	.897367	.879145
22	.866230	.846701	.827436	.808430	.789673	.771160
24	.767583	.747758	.728200	.708902	.689857	.671058
26	.675523	.655408	.635564	.615982	.596657	.577581
28	.589067	.568671	.548550	.528695	.509102	.489762
30	.507445	.486779	.466393	.446279	.426431	.406842
32	.430041	.409119	.388482	.368125	.348039	.328220
34	.356358	.335195	.314326	.293743	.273440	.253411
36	.285988	.264604	.243521	.222734	.202236	.182021
38	.218594	.197010	.175736	.154768	.134099	.113724
40	.153898	.132136	.110696	.089573	.068760	.048252
42	.091664	.069749	.048169	.026918	.005991	-.014617
44	.031692	.009652	-.012039	-.033387	-.054397	-.075074
46	-.026185	-.048321	-.070093	-.091506	-.112566	-.133277
48	-.082113	-.104314	-.126134	-.147578	-.168652	-.189359
50	-.136215	-.158447	-.180281	-.201720	-.222770	-.243435
52	-.188598	-.210826	-.232637	-.254033	-.275020	-.295601
54	-.239353	-.261541	-.283290	-.304603	-.325485	-.345940
56	-.288559	-.310669	-.332316	-.353505	-.374239	-.394523
58	-.336287	-.358277	-.379781	-.400801	-.421343	-.441409
60	-.382595	-.404424	-.425741	-.446548	-.466850	-.486649
62	-.427536	-.449160	-.470244	-.490791	-.510805	-.530288
64	-.471154	-.492528	-.513333	-.533571	-.553247	-.572363
66	-.513490	-.534566	-.555043	-.574922	-.594208	-.612904
68	-.554576	-.575307	-.595405	-.614874	-.633717	-.651937
70	-.594442	-.614777	-.634445	-.653451	-.671796	-.689485
72	-.633114	-.653001	-.672186	-.690673	-.708465	-.725565
74	-.670613	-.689999	-.708647	-.726559	-.743740	-.760192
76	-.706958	-.725788	-.743842	-.761122	-.777633	-.793377
78	-.742164	-.760383	-.777785	-.794374	-.810154	-.825129
80	-.776245	-.793794	-.810486	-.826323	-.841312	-.855454
82	-.809212	-.826032	-.841952	-.856977	-.871110	-.884357
84	-.841073	-.857103	-.872191	-.886339	-.899553	-.911838
86	-.871835	-.887014	-.901205	-.914412	-.926641	-.937899
88	-.901503	-.915767	-.928997	-.941197	-.952376	-.962538
90	-.930081	-.943365	-.955567	-.966694	-.976753	-.985752

ν	$Q_\nu(\cos \theta)$					
θ	.60	.62	.64	.66	.68	.70
90	-.930081	-.943365	-.955568	-.966695	-.976754	-.985752
92	-.957571	-.969809	-.980916	-.990901	-.999772	-1.007537
94	-.983974	-.995097	-1.005040	-1.013813	-1.021425	-1.027886
96	-1.009289	-1.019227	-1.027936	-1.035426	-1.041708	-1.046793
98	-1.033513	-1.042196	-1.049599	-1.055734	-1.060612	-1.064248
100	-1.056646	-1.063999	-1.070022	-1.074728	-1.078130	-1.080243
102	-1.078680	-1.084631	-1.089199	-1.092401	-1.094250	-1.094764
104	-1.099613	-1.104084	-1.107121	-1.108741	-1.108961	-1.107801
106	-1.119436	-1.122350	-1.123777	-1.123737	-1.122250	-1.119338
108	-1.138143	-1.139419	-1.139156	-1.137377	-1.134103	-1.129360
110	-1.155724	-1.155280	-1.153245	-1.149645	-1.144504	-1.137849
112	-1.172170	-1.169921	-1.166030	-1.160525	-1.153434	-1.144786
114	-1.187468	-1.183328	-1.177495	-1.169999	-1.160873	-1.150150
116	-1.201605	-1.195485	-1.187621	-1.178048	-1.166801	-1.153917
118	-1.214568	-1.206375	-1.196389	-1.184648	-1.171191	-1.156060
120	-1.226339	-1.215979	-1.203777	-1.189776	-1.174019	-1.156552
122	-1.236901	-1.224275	-1.209760	-1.193403	-1.175253	-1.155360
124	-1.246233	-1.231239	-1.214310	-1.195499	-1.174860	-1.152448
126	-1.254312	-1.236844	-1.217398	-1.196031	-1.172803	-1.147774
128	-1.261112	-1.241059	-1.218987	-1.194958	-1.169039	-1.141295
130	-1.266604	-1.243851	-1.219040	-1.192239	-1.163520	-1.132959
132	-1.270756	-1.245181	-1.217511	-1.187822	-1.156194	-1.122708
134	-1.273530	-1.245005	-1.214352	-1.181654	-1.146998	-1.110474
136	-1.274884	-1.243273	-1.209504	-1.173669	-1.135863	-1.096183
138	-1.274769	-1.239927	-1.202902	-1.163794	-1.122707	-1.079747
140	-1.273128	-1.234901	-1.194470	-1.151944	-1.107437	-1.061063
142	-1.269895	-1.228117	-1.184119	-1.138019	-1.089943	-1.040014
144	-1.264996	-1.219486	-1.171745	-1.121903	-1.070096	-1.016459
146	-1.258338	-1.208899	-1.157225	-1.103458	-1.047745	-.990233
148	-1.249815	-1.196231	-1.140414	-1.082520	-1.022708	-.961139
150	-1.239297	-1.181327	-1.121135	-1.058891	-.994766	-.928937
152	-1.226627	-1.164001	-1.099173	-1.032328	-.963652	-.893336
154	-1.211612	-1.144025	-1.074266	-1.002535	-.929036	-.853976
156	-1.194011	-1.121111	-1.046081	-.969139	-.890506	-.810406
158	-1.173516	-1.094896	-1.014200	-.931667	-.847537	-.762052
160	-1.149732	-1.064908	-.978079	-.889504	-.799446	-.708169
162	-1.122134	-1.030524	-.936997	-.841838	-.745333	-.647767
164	-1.090006	-.990892	-.889973	-.787559	-.683963	-.579499
166	-1.052342	-.944814	-.835620	-.725101	-.613600	-.501459
168	-1.007659	-.890527	-.771903	-.652162	-.531682	-.410841
170	-.953652	-.825286	-.695646	-.565152	-.434223	-.303275
172	-.886444	-.744473	-.601514	-.458037	-.314511	-.171401
174	-.798746	-.639409	-.479469	-.319462	-.159922	-.001377
176	-.674157	-.490559	-.306921	-.123872	.057961	.237967
178	-.460252	-.235472	-.011643	.210447	.430023	.646320
180	∞	∞	∞	∞	∞	∞

		$Q_\nu(\cos \theta)$					
ν		.70	.72	.74	.76	.78	.80
θ							
0		∞	∞	∞	∞	∞	∞
2		3.260817	3.245015	3.229447	3.214107	3.198987	3.184082
4		2.563736	2.547804	2.532105	2.516632	2.501379	2.486340
6		2.152621	2.136510	2.120630	2.104975	2.089539	2.074314
8		1.857878	1.841551	1.825454	1.809580	1.793923	1.778477
10		1.626480	1.609909	1.593567	1.577447	1.561543	1.545847
12		1.434876	1.418042	1.401435	1.385048	1.368876	1.352912
14		1.270555	1.253442	1.236555	1.219889	1.203436	1.187191
16		1.126082	1.108681	1.091506	1.074551	1.057810	1.041277
18		.996690	.978996	.961529	.944283	.927250	.910427
20		.879145	.861158	.843399	.825862	.808540	.791428
22		.771160	.752882	.734835	.717012	.699406	.682012
24		.671058	.652498	.634170	.616069	.598189	.580525
26		.577581	.558748	.540151	.521785	.503644	.485722
28		.489762	.470669	.451818	.433202	.414816	.396655
30		.406842	.387507	.368418	.349571	.330960	.312580
32		.328220	.308661	.289355	.270299	.251486	.232912
34		.253411	.233650	.214152	.194910	.175921	.157178
36		.182021	.162083	.142416	.123017	.103880	.084999
38		.113724	.093636	.073831	.054304	.035049	.016063
40		.048252	.028044	.008131	-.011491	-.030828	-.049885
42		-.014617	-.034913	-.054901	-.074585	-.093969	-.113059
44		-.075074	-.095424	-.115451	-.135159	-.154552	-.173634
46		-.133277	-.153644	-.173672	-.193365	-.212725	-.231759
48		-.189359	-.209706	-.229695	-.249330	-.268616	-.287555
50		-.243435	-.263720	-.283628	-.303163	-.322328	-.341128
52		-.295601	-.315781	-.335565	-.354954	-.373952	-.392563
54		-.345940	-.365972	-.385584	-.404780	-.423562	-.441935
56		-.394523	-.414359	-.433753	-.452706	-.471222	-.489303
58		-.441409	-.461002	-.480128	-.498787	-.516984	-.534721
60		-.486649	-.505950	-.524756	-.543069	-.560893	-.578229
62		-.530288	-.549245	-.567679	-.585591	-.602986	-.619865
64		-.572363	-.590923	-.608929	-.626385	-.643294	-.659657
66		-.612904	-.631012	-.648536	-.665478	-.681842	-.697630
68		-.651937	-.669538	-.686521	-.702891	-.718650	-.733801
70		-.689485	-.706521	-.722906	-.738643	-.753736	-.768188
72		-.725565	-.741977	-.757703	-.772747	-.787112	-.800801
74		-.760192	-.775920	-.790926	-.805213	-.818786	-.831649
76		-.793377	-.808359	-.822582	-.836051	-.848767	-.860737
78		-.825129	-.839303	-.852680	-.865264	-.877059	-.888069
80		-.855454	-.868756	-.881222	-.892856	-.903662	-.913647
82		-.884357	-.896722	-.908210	-.918827	-.928579	-.937470
84		-.911838	-.923200	-.933645	-.943178	-.951806	-.959534
86		-.937899	-.948191	-.957524	-.965905	-.973340	-.979838
88		-.962538	-.971692	-.979845	-.987004	-.993178	-.998375
90		-.985752	-.993699	-1.000602	-1.006469	-1.011312	-1.015138

ν	$Q_\nu(\cos \theta)$					
	.70	.72	.74	.76	.78	.80
θ						
90	-.985752	-.993699	-1.000602	-1.006470	-1.011312	-1.015138
92	-1.007537	-1.014206	-1.019789	-1.024295	-1.027735	-1.030120
94	-1.027886	-1.033207	-1.037398	-1.040471	-1.042438	-1.043312
96	-1.046793	-1.050693	-1.053421	-1.054989	-1.055412	-1.054703
98	-1.064248	-1.066655	-1.067846	-1.067837	-1.066644	-1.064282
100	-1.080243	-1.081082	-1.080663	-1.079004	-1.076122	-1.072036
102	-1.094764	-1.093961	-1.091859	-1.088476	-1.083833	-1.077951
104	-1.107801	-1.105280	-1.101418	-1.096237	-1.089761	-1.082011
106	-1.119338	-1.115022	-1.109325	-1.102272	-1.093888	-1.084200
108	-1.129360	-1.123171	-1.115563	-1.106562	-1.096198	-1.084499
110	-1.137849	-1.129708	-1.120111	-1.109087	-1.096668	-1.082887
112	-1.144786	-1.134613	-1.122948	-1.109825	-1.095278	-1.079343
114	-1.150150	-1.137864	-1.124052	-1.108751	-1.092001	-1.073841
116	-1.153917	-1.139435	-1.123395	-1.105840	-1.086811	-1.066353
118	-1.156060	-1.139298	-1.120949	-1.101060	-1.079677	-1.056850
120	-1.156552	-1.137424	-1.116682	-1.094379	-1.070566	-1.045297
122	-1.155360	-1.133777	-1.110559	-1.085760	-1.059439	-1.031655
124	-1.152448	-1.128320	-1.102538	-1.075162	-1.046255	-1.015883
126	-1.147774	-1.121010	-1.092575	-1.062537	-1.030965	-.997930
128	-1.141295	-1.111799	-1.080621	-1.047834	-1.013516	-.977743
130	-1.132959	-1.100631	-1.066616	-1.030993	-.993845	-.955257
132	-1.122708	-1.087446	-1.050496	-1.011945	-.971883	-.930402
134	-1.110474	-1.072172	-1.032187	-.990613	-.947549	-.903094
136	-1.096183	-1.054729	-1.011602	-.966907	-.920749	-.873237
138	-1.079747	-1.035021	-.988642	-.940722	-.891375	-.840719
140	-1.061063	-1.012942	-.963192	-.911938	-.859302	-.805411
142	-1.040014	-.988362	-.935117	-.880412	-.824380	-.767159
144	-1.016459	-.961132	-.904257	-.845976	-.786434	-.725780
146	-.990233	-.931075	-.870422	-.808430	-.745256	-.681057
148	-.961139	-.897977	-.833386	-.767536	-.700594	-.632730
150	-.928937	-.861580	-.792875	-.723002	-.652142	-.580480
152	-.893336	-.821571	-.748552	-.674473	-.599530	-.523920
154	-.853976	-.777561	-.700003	-.621509	-.542293	-.462565
156	-.810406	-.729064	-.646706	-.563559	-.479851	-.395808
158	-.762052	-.675457	-.587997	-.499917	-.411461	-.322873
160	-.708169	-.615936	-.523014	-.429666	-.336157	-.242749
162	-.647767	-.549430	-.450609	-.351589	-.252655	-.154091
164	-.579499	-.474479	-.369216	-.264020	-.159199	-.055057
166	-.501459	-.389020	-.276624	-.164608	-.053305	.056955
168	-.410841	-.290014	-.169572	-.049883	.068688	.185787
170	-.303275	-.172722	-.042974	.085565	.212498	.337435
172	-.171401	-.029170	.111729	.250848	.387748	.522001
174	-.001377	.155651	.310650	.463118	.612563	.758507
176	.237967	.415538	.590080	.761014	.927776	1.089820
178	.646320	.858587	1.066096	1.268137	1.464022	1.653090
180	∞	∞	∞	∞	∞	∞

ν	$Q_{\nu}(\cos \theta)$					
	.80	.82	.84	.86	.88	.90
θ						
0	∞	∞	∞	∞	∞	∞
2	3.184082	3.169387	3.154894	3.140599	3.126497	3.112582
4	2.486340	2.471508	2.456878	2.442445	2.428203	2.414147
6	2.074314	2.059295	2.044477	2.029855	2.015422	2.001174
8	1.778477	1.763235	1.748192	1.733343	1.718683	1.704206
10	1.545847	1.530355	1.515061	1.499959	1.485045	1.470314
12	1.352912	1.337151	1.321587	1.306215	1.291029	1.276026
14	1.187191	1.171149	1.155303	1.139648	1.124180	1.108893
16	1.041277	1.024946	1.008812	.992870	.977114	.961540
18	.910427	.893806	.877383	.861152	.845109	.829249
20	.791428	.774520	.757812	.741298	.724974	.708834
22	.682012	.664826	.647841	.631053	.614456	.598048
24	.580525	.563070	.545821	.528771	.511918	.495255
26	.485722	.468015	.450517	.433224	.416131	.399235
28	.396655	.378713	.360987	.343471	.326160	.309052
30	.312580	.294427	.276495	.258780	.241278	.223984
32	.232912	.214571	.196460	.178573	.160908	.143460
34	.157178	.138679	.120418	.102391	.084594	.067024
36	.084999	.066372	.047993	.029859	.011967	-.005688
38	.016063	-.002657	-.021118	-.039322	-.057274	-.074976
40	-.049885	-.068664	-.087169	-.105405	-.123374	-.141081
42	-.113059	-.131856	-.150366	-.168592	-.186536	-.204202
44	-.173634	-.192409	-.210881	-.229052	-.246925	-.264504
46	-.231759	-.250468	-.268855	-.286925	-.304680	-.322123
48	-.287555	-.306152	-.324409	-.342329	-.359916	-.377170
50	-.341128	-.359565	-.377642	-.395361	-.412727	-.429740
52	-.392563	-.410790	-.428636	-.446102	-.463193	-.479909
54	-.441935	-.459900	-.477461	-.494619	-.511379	-.527741
56	-.489303	-.506953	-.524174	-.540969	-.557340	-.573288
58	-.534721	-.552000	-.568825	-.585197	-.601120	-.616595
60	-.578229	-.595081	-.611452	-.627343	-.642757	-.657696
62	-.619865	-.636232	-.652088	-.667436	-.682279	-.696619
64	-.659657	-.675478	-.690759	-.705503	-.719712	-.733389
66	-.697630	-.712844	-.727488	-.741564	-.755074	-.768022
68	-.733801	-.748347	-.762290	-.775634	-.788381	-.800533
70	-.768188	-.782002	-.795180	-.807725	-.819642	-.830932
72	-.800801	-.813818	-.826165	-.837847	-.848866	-.859227
74	-.831649	-.843803	-.855254	-.866005	-.876060	-.885423
76	-.860737	-.871963	-.882450	-.892203	-.901225	-.909521
78	-.888069	-.898300	-.907756	-.916442	-.924363	-.931524
80	-.913647	-.922815	-.931172	-.938723	-.945473	-.951431
82	-.937470	-.945506	-.952695	-.959042	-.964554	-.969238
84	-.959534	-.966371	-.972323	-.977397	-.981602	-.984944
86	-.979838	-.985406	-.990051	-.993784	-.996612	-.998544
88	-.998375	-1.002604	-1.005874	-1.008196	-1.009578	-1.010033
90	-1.015138	-1.017959	-1.019784	-1.020626	-1.020495	-1.019404

		$Q_\nu(\cos \theta)$					
ν		.80	.82	.84	.86	.88	.90
θ							
90	-1.015138	-1.017959	-1.019784	-1.020626	-1.020496	-1.019405	
92	-1.030120	-1.031463	-1.031774	-1.031067	-1.029355	-1.026652	
94	-1.043312	-1.043106	-1.041834	-1.039510	-1.036149	-1.031768	
96	-1.054703	-1.052879	-1.049954	-1.045945	-1.040869	-1.034743	
98	-1.064282	-1.060769	-1.056122	-1.050361	-1.043503	-1.035570	
100	-1.072036	-1.066764	-1.060327	-1.052746	-1.044042	-1.034238	
102	-1.077951	-1.070851	-1.062555	-1.053088	-1.042473	-1.030736	
104	-1.082011	-1.073013	-1.062791	-1.051372	-1.038783	-1.025052	
106	-1.084200	-1.073234	-1.061019	-1.047583	-1.032958	-1.017173	
108	-1.084499	-1.071496	-1.057220	-1.041704	-1.024980	-1.007084	
110	-1.082887	-1.067778	-1.051375	-1.033715	-1.014834	-.994771	
112	-1.079343	-1.062059	-1.043463	-1.023597	-1.002499	-.980213	
114	-1.073841	-1.054313	-1.033460	-1.011325	-.987954	-.963392	
116	-1.066353	-1.044513	-1.021338	-.996874	-.971173	-.944285	
118	-1.056850	-1.032630	-1.007067	-.980216	-.952130	-.922864	
120	-1.045297	-1.018628	-.990615	-.961316	-.930792	-.899101	
122	-1.031655	-1.002469	-.971943	-.940139	-.907124	-.872962	
124	-1.015883	-.984111	-.951008	-.916642	-.881085	-.844407	
126	-.997930	-.963504	-.927761	-.890777	-.852627	-.813390	
128	-.977743	-.940593	-.902148	-.862489	-.821698	-.779860	
130	-.955257	-.915314	-.874103	-.831713	-.788233	-.743755	
132	-.930402	-.887594	-.843553	-.798377	-.752161	-.705003	
134	-.903094	-.857348	-.810414	-.762395	-.713396	-.663521	
136	-.873237	-.824478	-.774584	-.723667	-.671837	-.619210	
138	-.840719	-.788871	-.735949	-.682075	-.627369	-.571952	
140	-.805411	-.750392	-.694373	-.637483	-.579852	-.521609	
142	-.767159	-.708884	-.649693	-.589726	-.529121	-.468016	
144	-.725780	-.664158	-.601718	-.538609	-.474978	-.410975	
146	-.681057	-.615992	-.550219	-.483898	-.417188	-.350247	
148	-.632730	-.564114	-.494917	-.425310	-.355461	-.285540	
150	-.580480	-.508197	-.435476	-.362499	-.289446	-.216499	
152	-.523920	-.447837	-.371479	-.295039	-.218711	-.142685	
154	-.462565	-.382534	-.302410	-.222401	-.142712	-.063547	
156	-.395808	-.311655	-.227617	-.143915	-.060767	.021608	
158	-.322873	-.234395	-.146266	-.058723	.028000	.113676	
160	-.242749	-.149701	-.057269	.034293	.124738	.213823	
162	-.154091	-.056173	.040822	.136627	.230975	.323609	
164	-.055057	.048106	.149997	.250325	.348810	.445176	
166	.056955	.165850	.273063	.378285	.481214	.581558	
168	.185787	.301063	.414174	.524788	.632582	.737246	
170	.337435	.459997	.579813	.696524	.809783	.919258	
172	.522001	.653190	.780910	.904772	1.024399	1.139434	
174	.758507	.900487	1.038057	1.170786	1.298264	1.420101	
176	1.089820	1.246618	1.397666	1.542481	1.680602	1.811599	
178	1.653090	1.834709	2.008274	2.173212	2.328986	2.475092	
180	∞	∞	∞	∞	∞	∞	

ν	$Q_\nu(\cos \theta)$					
	.90	.92	.94	.96	.98	1.00
θ						
0	∞	∞	∞	∞	∞	∞
2	3.112582	3.098851	3.085297	3.071916	3.058705	3.045660
4	2.414147	2.400273	2.386576	2.373051	2.359694	2.346502
6	2.001174	1.987106	1.973214	1.959493	1.945939	1.932547
8	1.704206	1.689909	1.675785	1.661831	1.648043	1.634416
10	1.470314	1.455760	1.441380	1.427168	1.413120	1.399234
12	1.276026	1.261199	1.246544	1.232058	1.217736	1.203573
14	1.108893	1.093783	1.078845	1.064076	1.049470	1.035024
16	.961540	.946143	.930919	.915864	.900973	.886242
18	.829249	.813568	.798060	.782722	.767550	.752540
20	.708834	.692875	.677091	.661480	.646036	.630757
22	.598048	.581822	.565776	.549904	.534203	.518670
24	.495255	.478780	.462487	.446373	.430435	.414668
26	.399235	.382529	.366012	.349679	.333525	.317549
28	.309052	.292141	.275425	.258898	.242558	.226401
30	.223984	.206896	.190008	.173319	.156823	.140519
32	.143460	.126225	.109199	.092380	.075764	.059348
34	.067024	.049677	.032549	.015638	-.001060	-.017548
36	-.005688	-.023110	-.040301	-.057264	-.074004	-.090521
38	-.074976	-.092431	-.109644	-.126617	-.143352	-.159853
40	-.141081	-.158527	-.175717	-.192652	-.209336	-.225771
42	-.204202	-.221593	-.238712	-.255562	-.272145	-.288463
44	-.264504	-.281792	-.298791	-.315504	-.331932	-.348080
46	-.322123	-.339256	-.356083	-.372605	-.388825	-.404745
48	-.377170	-.394097	-.410697	-.426973	-.442927	-.458561
50	-.429740	-.446404	-.462721	-.478693	-.494322	-.509611
52	-.479909	-.496254	-.512230	-.527838	-.543082	-.557962
54	-.527741	-.543708	-.559283	-.574467	-.589262	-.603670
56	-.573288	-.588818	-.603929	-.618626	-.632909	-.646781
58	-.616595	-.631624	-.646211	-.660356	-.674061	-.687330
60	-.657696	-.672162	-.686158	-.699687	-.712748	-.725346
62	-.696619	-.710459	-.723800	-.736644	-.748995	-.760854
64	-.733389	-.746536	-.759155	-.771249	-.782820	-.793872
66	-.768022	-.780410	-.792240	-.803516	-.814239	-.824413
68	-.800533	-.812095	-.823068	-.833457	-.843263	-.852490
70	-.830932	-.841600	-.851649	-.861081	-.869900	-.878111
72	-.859227	-.868933	-.877987	-.886394	-.894157	-.901281
74	-.885423	-.894098	-.902089	-.909401	-.916039	-.922007
76	-.909521	-.917097	-.923956	-.930104	-.935547	-.940290
78	-.931524	-.937931	-.943589	-.948505	-.952684	-.956133
80	-.951431	-.956600	-.960988	-.964603	-.967450	-.969537
82	-.969238	-.973102	-.976152	-.978397	-.979845	-.980504
84	-.984944	-.987433	-.989078	-.989886	-.989868	-.989033
86	-.998544	-.999591	-.999762	-.999068	-.997518	-.995126
88	-1.010033	-1.009570	-1.008202	-1.005939	-1.002795	-.998781
90	-1.019404	-1.017366	-1.014392	-1.010497	-1.005695	-1.000000

		$Q_\nu(\cos \theta)$					
ν		.90	.92	.94	.96	.98	1.00
θ							
90	-1.019405	-1.017366	-1.014392	-1.010497	-1.005695	-1.000000	
92	-1.026652	-1.022971	-1.018329	-1.012739	-1.006217	-.998781	
94	-1.031768	-1.026381	-1.020006	-1.012659	-1.004360	-.995126	
96	-1.034743	-1.027587	-1.019418	-1.010255	-1.000121	-.989033	
98	-1.035570	-1.026581	-1.016558	-1.005522	-.993497	-.980504	
100	-1.034238	-1.023356	-1.011420	-.998455	-.984485	-.969537	
102	-1.030736	-1.017901	-1.003996	-.989047	-.973083	-.956133	
104	-1.025052	-1.010206	-.994277	-.977294	-.959287	-.940290	
106	-1.017173	-1.000261	-.982254	-.963187	-.943093	-.922007	
108	-1.007084	-.988051	-.967917	-.946718	-.924494	-.901281	
110	-.994771	-.973564	-.951253	-.927879	-.903485	-.878111	
112	-.980213	-.956782	-.932249	-.906658	-.880057	-.852490	
114	-.963392	-.937688	-.910888	-.883042	-.854201	-.824413	
116	-.944285	-.916260	-.887153	-.857016	-.825904	-.793872	
118	-.922864	-.892476	-.861022	-.828561	-.795151	-.760854	
120	-.899101	-.866306	-.832469	-.797654	-.761925	-.725346	
122	-.872962	-.837720	-.801467	-.764271	-.726202	-.687330	
124	-.844407	-.806681	-.767980	-.728380	-.687955	-.646781	
126	-.813390	-.773144	-.731968	-.689944	-.647150	-.603670	
128	-.779860	-.737060	-.693384	-.648917	-.603747	-.557962	
130	-.743755	-.698370	-.652169	-.605247	-.557696	-.509611	
132	-.705003	-.657003	-.608259	-.558870	-.508938	-.458561	
134	-.663521	-.612878	-.561572	-.509710	-.457399	-.404745	
136	-.619210	-.565897	-.512014	-.457674	-.402992	-.348080	
138	-.571952	-.515946	-.459472	-.402653	-.345610	-.288463	
140	-.521609	-.462886	-.403811	-.344514	-.285125	-.225771	
142	-.468016	-.406552	-.344867	-.283097	-.221381	-.159853	
144	-.410975	-.346748	-.282443	-.218208	-.154186	-.090521	
146	-.350247	-.283232	-.216301	-.149609	-.083307	-.017548	
148	-.285540	-.215714	-.146150	-.077011	-.008458	.059348	
150	-.216499	-.143835	-.071629	-.000055	.070716	.140519	
152	-.142685	-.067150	.007706	.081702	.154659	.226401	
154	-.063547	.014894	.092414	.168822	.243928	.317549	
156	.021608	.103002	.183205	.262014	.339233	.414668	
158	.113676	.198079	.280990	.362196	.441490	.518670	
160	.213823	.301310	.386967	.470571	.551904	.630757	
162	.323609	.414278	.502736	.588749	.672090	.752540	
164	.445176	.539158	.630498	.718948	.804272	.886242	
166	.581558	.679036	.773376	.864316	.951611	1.035024	
168	.737246	.838479	.935994	1.029519	1.118793	1.203573	
170	.919258	1.024628	1.125590	1.221856	1.313155	1.399234	
172	1.139434	1.249535	1.354377	1.453657	1.547091	1.634416	
174	1.420101	1.535927	1.645396	1.748184	1.843992	1.932547	
176	1.811599	1.935064	2.050619	2.157917	2.256640	2.346502	
178	2.475092	2.611063	2.736473	2.850933	2.954097	3.045660	
180		∞	∞	∞	∞	∞	∞

ν	$Q_\nu(\cos \theta)$					
	1.00	1.02	1.04	1.06	1.08	1.10
θ						
0	∞	∞	∞	∞	∞	∞
2	3.045660	3.032775	3.020047	3.007473	2.995048	2.982770
4	2.346502	2.333468	2.320592	2.307867	2.295291	2.282860
6	1.932547	1.919314	1.906235	1.893308	1.880528	1.867892
8	1.634416	1.620946	1.607630	1.594464	1.581444	1.568568
10	1.399234	1.385503	1.371926	1.358497	1.345214	1.332073
12	1.203573	1.189567	1.175713	1.162007	1.148447	1.135028
14	1.035024	1.020734	1.006597	.992608	.978765	.965063
16	.886242	.871669	.857248	.842977	.828852	.814870
18	.752540	.737688	.722991	.708445	.694046	.679792
20	.630757	.615638	.600676	.585867	.571209	.556699
22	.518670	.503300	.488091	.473039	.458141	.443394
24	.414668	.399069	.383635	.368362	.353248	.338290
26	.317549	.301747	.286114	.270649	.255348	.240208
28	.226401	.210425	.194625	.178999	.163545	.148259
30	.140519	.124402	.108470	.092720	.077150	.061756
32	.059348	.043128	.027103	.011269	-.004375	-.019834
34	-.017548	-.033829	-.049906	-.065780	-.081455	-.096933
36	-.090521	-.106820	-.122902	-.138770	-.154427	-.169874
38	-.159853	-.176121	-.192160	-.207972	-.223559	-.238923
40	-.225771	-.241960	-.257905	-.273607	-.289070	-.304295
42	-.288463	-.304519	-.320315	-.335853	-.351134	-.366163
44	-.348080	-.363947	-.379538	-.394853	-.409894	-.424665
46	-.404745	-.420367	-.435693	-.450725	-.465465	-.479914
48	-.458561	-.473877	-.488878	-.503565	-.517939	-.532003
50	-.509611	-.524560	-.539173	-.553450	-.567393	-.581005
52	-.557962	-.572481	-.586641	-.600442	-.613888	-.626980
54	-.603670	-.617694	-.631335	-.644594	-.657474	-.669976
56	-.646781	-.660243	-.673298	-.685946	-.698191	-.710033
58	-.687330	-.700163	-.712563	-.724532	-.736071	-.747182
60	-.725346	-.737482	-.749159	-.760377	-.771140	-.781449
62	-.760854	-.772224	-.783107	-.793504	-.803420	-.812855
64	-.793872	-.804406	-.814424	-.823930	-.832927	-.841415
66	-.824413	-.834041	-.843125	-.851669	-.859675	-.867146
68	-.852490	-.861142	-.869221	-.876731	-.883675	-.890057
70	-.878111	-.885716	-.892720	-.899125	-.904937	-.910160
72	-.901281	-.907770	-.913628	-.918860	-.923470	-.927463
74	-.922007	-.927310	-.931953	-.935941	-.939280	-.941976
76	-.940290	-.944338	-.947697	-.950374	-.952375	-.953705
78	-.956133	-.958858	-.960866	-.962164	-.962760	-.962661
80	-.969537	-.970872	-.971463	-.971317	-.970443	-.968851
82	-.980504	-.980383	-.979491	-.977837	-.975432	-.972284
84	-.989033	-.987392	-.984954	-.981730	-.977732	-.972970
86	-.995126	-.991901	-.987855	-.983002	-.977353	-.970921
88	-.998781	-.993911	-.988199	-.981659	-.974303	-.966148
90	-1.000000	-.993427	-.985990	-.977706	-.968591	-.958662

		$Q_\nu(\cos \theta)$					
ν		1.00	1.02	1.04	1.06	1.08	1.10
θ							
90	-1.000000	-.993427	-.985990	-.977706	-.968591	-.958662	
92	-.998781	-.990447	-.981231	-.971152	-.960228	-.948478	
94	-.995126	-.984975	-.973928	-.962005	-.949225	-.935610	
96	-.989033	-.977015	-.964087	-.950273	-.935594	-.920074	
98	-.980504	-.966568	-.951713	-.935964	-.919347	-.901887	
100	-.969537	-.953637	-.936812	-.919089	-.900498	-.881066	
102	-.956133	-.938225	-.919389	-.899657	-.879060	-.857628	
104	-.940290	-.920333	-.899452	-.877678	-.855047	-.831593	
106	-.922007	-.899965	-.877004	-.853161	-.828474	-.802980	
108	-.901281	-.877121	-.852052	-.826116	-.799354	-.771808	
110	-.878111	-.851802	-.824600	-.796552	-.767701	-.738095	
112	-.852490	-.824006	-.794652	-.764477	-.733529	-.701859	
114	-.824413	-.793732	-.762209	-.729897	-.696850	-.663120	
116	-.793872	-.760976	-.727273	-.692819	-.657673	-.621893	
118	-.760854	-.725730	-.689839	-.653245	-.616008	-.578192	
120	-.725346	-.687984	-.649905	-.611174	-.571860	-.532029	
122	-.687330	-.647725	-.607459	-.566604	-.525231	-.483413	
124	-.646781	-.604934	-.562490	-.519527	-.476121	-.432350	
126	-.603670	-.559585	-.514977	-.469928	-.424521	-.378837	
128	-.557962	-.511649	-.464895	-.417789	-.370418	-.322870	
130	-.509611	-.461084	-.412209	-.363080	-.313791	-.264433	
132	-.458561	-.407840	-.356875	-.305764	-.254608	-.203503	
134	-.404745	-.351855	-.298835	-.245791	-.192826	-.140044	
136	-.348080	-.293051	-.238019	-.183095	-.128388	-.074008	
138	-.288463	-.231332	-.174336	-.117593	-.061218	-.005327	
140	-.225771	-.166579	-.107675	-.049181	.008778	.066085	
142	-.159853	-.098647	-.037895	.022271	.081726	.140344	
144	-.090521	-.027354	.035175	.096932	.157782	.217595	
146	-.017548	.047520	.111752	.175006	.237141	.298023	
148	.059348	.126253	.192104	.256752	.320053	.381866	
150	.140519	.209189	.276567	.342498	.406833	.469426	
152	.226401	.296758	.365562	.432655	.497879	.561086	
154	.317549	.389507	.459628	.527747	.593702	.657342	
156	.414668	.488134	.559451	.628449	.694961	.758831	
158	.518670	.593544	.665925	.735638	.802512	.866388	
160	.630757	.706929	.780229	.850475	.917494	.981124	
162	.752540	.829892	.903949	.974523	1.041440	1.104537	
164	.886242	.964645	1.039276	1.109946	1.176476	1.238705	
166	1.035024	1.114334	1.189332	1.259825	1.325635	1.386598	
168	1.203573	1.283631	1.358752	1.428744	1.493425	1.552637	
170	1.399234	1.479857	1.554808	1.623892	1.686930	1.743767	
172	1.634416	1.715390	1.789794	1.857433	1.918133	1.971745	
174	1.932547	2.013601	2.086933	2.152350	2.209685	2.258803	
176	2.346502	2.427247	2.498657	2.560543	2.612753	2.655166	
178	3.045660	3.125359	3.192978	3.248344	3.291327	3.321844	
180	∞	∞	∞	∞	∞	∞	

ν	1.10	1.12	1.14	$Q_\nu(\cos \theta)$ 1.16	1.18	1.20
θ						
0	∞	∞	∞	∞	∞	∞
2	2.982770	2.970634	2.958639	2.946780	2.935054	2.923459
4	2.282860	2.270571	2.258421	2.246406	2.234523	2.222771
6	1.867892	1.855396	1.843038	1.830815	1.818722	1.806758
8	1.568568	1.555830	1.543229	1.530761	1.518424	1.506213
10	1.332073	1.319070	1.306203	1.293469	1.280864	1.268386
12	1.135028	1.121747	1.108602	1.095590	1.082706	1.069949
14	.965063	.951500	.938073	.924778	.911613	.898576
16	.814870	.801027	.787322	.773750	.760309	.746996
18	.679792	.665680	.651706	.637868	.624163	.610588
20	.556699	.542332	.528107	.514021	.500070	.486252
22	.443394	.428794	.414340	.400028	.385856	.371821
24	.338290	.323484	.308828	.294319	.279956	.265735
26	.240208	.225228	.210402	.195731	.181211	.166839
28	.148259	.133139	.118181	.103385	.088747	.074266
30	.061756	.046536	.031488	.016609	.001898	-.012647
32	-.019834	-.035109	-.050203	-.065118	-.079855	-.094417
34	-.096933	-.112216	-.127307	-.142207	-.156919	-.171444
36	-.169874	-.185114	-.200150	-.214982	-.229613	-.244044
38	-.238923	-.254067	-.268991	-.283699	-.298191	-.312470
40	-.304295	-.319285	-.334040	-.348563	-.362856	-.376920
42	-.366163	-.380938	-.395464	-.409740	-.423770	-.437554
44	-.424665	-.439165	-.453397	-.467362	-.481063	-.494500
46	-.479914	-.494075	-.507948	-.521536	-.534840	-.547860
48	-.532003	-.545758	-.559205	-.572347	-.585184	-.597718
50	-.581005	-.594286	-.607239	-.619864	-.632164	-.644139
52	-.626980	-.639719	-.652106	-.664144	-.675834	-.687178
54	-.669976	-.682102	-.693854	-.705232	-.716239	-.726877
56	-.710033	-.721475	-.732518	-.743164	-.753415	-.763273
58	-.747182	-.757868	-.768131	-.777971	-.787392	-.796394
60	-.781449	-.791307	-.800716	-.809677	-.818193	-.826267
62	-.812855	-.821812	-.830294	-.838303	-.845842	-.852912
64	-.841415	-.849400	-.856883	-.863866	-.870354	-.876349
66	-.867146	-.874085	-.880497	-.886383	-.891748	-.896595
68	-.890057	-.895881	-.901150	-.905868	-.910039	-.913667
70	-.910160	-.914797	-.918853	-.922333	-.925241	-.927581
72	-.927463	-.930844	-.933619	-.935792	-.937369	-.938355
74	-.941976	-.944033	-.945459	-.946259	-.946439	-.946006
76	-.953705	-.954373	-.954384	-.953747	-.952467	-.950553
78	-.962661	-.961874	-.960408	-.958271	-.955471	-.952016
80	-.968851	-.966547	-.963543	-.959847	-.955468	-.950418
82	-.972284	-.968404	-.963803	-.958492	-.952481	-.945782
84	-.972970	-.967457	-.961204	-.954224	-.946530	-.938134
86	-.970921	-.963720	-.955764	-.947066	-.937640	-.927502
88	-.966148	-.957208	-.947498	-.937036	-.925836	-.913916
90	-.958662	-.947935	-.936428	-.924159	-.911147	-.897408

		$Q_\nu(\cos \theta)$					
ν		1.10	1.12	1.14	1.16	1.18	1.20
θ							
90	-	.958662	-.947935	-.936428	-.924159	-.911146	-.897408
92	-	.948478	-.935920	-.922575	-.908461	-.893601	-.878014
94	-	.935610	-.921181	-.905960	-.889970	-.873232	-.855771
96	-	.920074	-.903737	-.886608	-.868712	-.850073	-.830717
98	-	.901887	-.883611	-.864546	-.844719	-.824159	-.802893
100	-	.881066	-.860823	-.839798	-.818023	-.795528	-.772344
102	-	.857628	-.835395	-.812394	-.788658	-.764220	-.739115
104	-	.831593	-.807353	-.782362	-.756657	-.730274	-.703252
106	-	.802980	-.776720	-.749732	-.722056	-.693733	-.664803
108	-	.771808	-.743520	-.714533	-.684891	-.654638	-.623818
110	-	.738095	-.707778	-.676797	-.645200	-.613035	-.580348
112	-	.701859	-.669517	-.636554	-.603019	-.568965	-.534442
114	-	.663120	-.628763	-.593833	-.558384	-.522473	-.486154
116	-	.621893	-.585537	-.548663	-.511332	-.473602	-.435532
118	-	.578192	-.539859	-.501073	-.461897	-.422395	-.382629
120	-	.532029	-.491749	-.451088	-.410113	-.368891	-.327491
122	-	.483413	-.441222	-.398730	-.356009	-.313131	-.270166
124	-	.432350	-.388290	-.344019	-.299613	-.255147	-.210698
126	-	.378837	-.332959	-.286969	-.240946	-.194972	-.149127
128	-	.322870	-.275231	-.227589	-.180027	-.132632	-.085488
130	-	.264433	-.215099	-.165880	-.116866	-.068147	-.019809
132	-	.203503	-.152547	-.101836	-.051464	-.001526	.047886
134	-	.140044	-.087548	-.035438	.016185	.067227	.117589
136	-	.074008	-.020062	.033344	.086107	.138124	.189297
138	-	.005327	.049969	.104559	.158335	.211193	.263028
140	.	.066085	.122622	.178274	.232928	.286476	.338811
142	.	.140344	.198002	.254581	.309966	.364042	.416703
144	.	.217595	.276243	.333604	.389558	.443989	.496785
146	.	.298023	.357520	.415504	.471852	.526447	.579175
148	.	.381866	.442055	.500489	.557043	.611595	.664033
150	.	.469426	.530137	.588832	.645383	.699669	.751573
152	.	.561086	.622133	.680882	.737204	.790976	.842083
154	.	.657342	.718518	.777093	.832936	.885923	.935941
156	.	.758831	.819910	.878058	.933144	.985046	1.033650
158	.	.866388	.927116	.984555	1.038574	1.089052	1.135881
160	.	.981124	1.041214	1.097623	1.150223	1.198896	1.243537
162	1.	1.104537	1.163661	1.218674	1.269450	1.315876	1.357853
164	1.	1.238705	1.296480	1.349667	1.398144	1.441805	1.480559
166	1.	1.386598	1.442568	1.493413	1.539019	1.579287	1.614139
168	1.	1.552637	1.606237	1.654100	1.696121	1.732214	1.762312
170	1.	1.743767	1.794267	1.838317	1.875823	1.906716	1.930944
172	1.	1.971745	2.018145	2.057233	2.088933	2.113194	2.129992
174	2.	2.258803	2.299593	2.331976	2.355900	2.371344	2.378315
176	2.	2.655166	2.687700	2.710306	2.722968	2.725709	2.718582
178	3.	3.321844	3.339856	3.345372	3.338442	3.319163	3.287676
180		∞	∞	∞	∞	∞	∞

		$Q_\nu(\cos \theta)$					
ν		1.20	1.22	1.24	1.26	1.28	1.30
θ							
0	∞	∞	∞	∞	∞	∞	∞
2	2.923459	2.911992	2.900649	2.889429	2.878328	2.867345	
4	2.222771	2.211144	2.199641	2.188260	2.176997	2.165850	
6	1.806758	1.794919	1.783203	1.771607	1.760129	1.748765	
8	1.506213	1.494128	1.482163	1.470318	1.458590	1.446976	
10	1.268386	1.256032	1.243799	1.231684	1.219686	1.207801	
12	1.069949	1.057316	1.044804	1.032410	1.020133	1.007969	
14	.898576	.885662	.872870	.860197	.847641	.835199	
16	.746996	.733808	.720744	.707800	.694974	.682264	
18	.610588	.597141	.583819	.570619	.557540	.544579	
20	.486252	.472565	.459007	.445574	.432265	.419078	
22	.371821	.357921	.344154	.330516	.317007	.303624	
24	.265735	.251653	.237710	.223902	.210228	.196685	
26	.166839	.152614	.138533	.124594	.110796	.097135	
28	.074266	.059938	.045763	.031738	.017860	.004129	
30	-.012647	-.027031	-.041253	-.055316	-.069222	-.082972	
32	-.094417	-.108806	-.123023	-.137071	-.150951	-.164665	
34	-.171444	-.185784	-.199941	-.213917	-.227713	-.241331	
36	-.244044	-.258278	-.272316	-.286160	-.299810	-.313270	
38	-.312470	-.326537	-.340393	-.354041	-.367482	-.380716	
40	-.376920	-.390756	-.404366	-.417753	-.430915	-.443857	
42	-.437554	-.451093	-.464390	-.477446	-.490261	-.502838	
44	-.494500	-.507674	-.520588	-.533243	-.545639	-.557778	
46	-.547860	-.560600	-.573059	-.585240	-.597143	-.608771	
48	-.597718	-.609950	-.621883	-.633516	-.644851	-.655891	
50	-.644139	-.655792	-.667123	-.678133	-.688825	-.699199	
52	-.687178	-.698176	-.708831	-.719143	-.729115	-.738747	
54	-.726877	-.737146	-.747049	-.756587	-.765762	-.774575	
56	-.763273	-.772738	-.781814	-.790501	-.798802	-.806719	
58	-.796394	-.804981	-.813154	-.820915	-.828266	-.835210	
60	-.826267	-.833900	-.841095	-.847855	-.854181	-.860076	
62	-.852912	-.859518	-.865661	-.871345	-.876571	-.881343	
64	-.876349	-.881854	-.886872	-.891407	-.895461	-.899039	
66	-.896595	-.900928	-.904749	-.908064	-.910875	-.913188	
68	-.913667	-.916757	-.919312	-.921338	-.922838	-.923818	
70	-.927581	-.929360	-.930581	-.931251	-.931374	-.930957	
72	-.938355	-.938757	-.938579	-.937829	-.936512	-.934635	
74	-.946006	-.944967	-.943328	-.941097	-.938281	-.934887	
76	-.950553	-.948013	-.944854	-.941084	-.936713	-.931748	
78	-.952016	-.947917	-.943182	-.937820	-.931842	-.925256	
80	-.950418	-.944706	-.938343	-.931339	-.923706	-.915455	
82	-.945782	-.938407	-.930368	-.921677	-.912346	-.902388	
84	-.938134	-.929050	-.919291	-.908871	-.897805	-.886107	
86	-.927502	-.916666	-.905149	-.892965	-.880131	-.866663	
88	-.913916	-.901292	-.887982	-.874003	-.859374	-.844113	
90	-.897408	-.882964	-.867833	-.852035	-.835589	-.818517	

		$Q_\nu(\cos \theta)$					
ν		1.20	1.22	1.24	1.26	1.28	1.30
θ							
90	-.897408	-.882964	-.867833	-.852034	-.835589	-.818517	
92	-.878014	-.861722	-.844747	-.827109	-.808833	-.789940	
94	-.855771	-.837609	-.818772	-.799283	-.779167	-.758448	
96	-.830717	-.810670	-.789959	-.768611	-.746654	-.724113	
98	-.802893	-.780951	-.758363	-.735156	-.711361	-.687009	
100	-.772344	-.748503	-.724037	-.698979	-.673360	-.647214	
102	-.739115	-.713378	-.687043	-.660146	-.632722	-.604808	
104	-.703252	-.675627	-.647439	-.618725	-.589524	-.559875	
106	-.664803	-.635308	-.605288	-.574785	-.543842	-.512500	
108	-.623818	-.592475	-.560654	-.528400	-.495757	-.462772	
110	-.580348	-.547188	-.513603	-.479641	-.445351	-.410782	
112	-.534442	-.499504	-.464200	-.428584	-.392707	-.356620	
114	-.486154	-.449482	-.412514	-.375304	-.337908	-.300381	
116	-.435532	-.397182	-.358611	-.319877	-.281040	-.242157	
118	-.382629	-.342662	-.302558	-.262379	-.222187	-.182044	
120	-.327491	-.285979	-.244421	-.202884	-.161433	-.120134	
122	-.270166	-.227187	-.184264	-.141466	-.098863	-.056522	
124	-.210698	-.166341	-.122150	-.078197	-.034556	.008701	
126	-.149127	-.103489	-.058136	-.013146	.031406	.075447	
128	-.085488	-.038676	.007720	.053623	.098952	.143631	
130	-.019809	.028058	.075373	.122050	.168009	.213169	
132	.047886	.096684	.144778	.192083	.238513	.283988	
134	.117589	.167178	.215904	.263676	.310409	.356018	
136	.189297	.239529	.288725	.336794	.383647	.429199	
138	.263028	.313740	.363234	.411415	.458194	.503484	
140	.338811	.389831	.439436	.487533	.534028	.578836	
142	.416703	.467842	.517359	.565158	.611147	.655238	
144	.496785	.547841	.597054	.644327	.689569	.732691	
146	.579175	.629928	.678604	.725105	.769341	.811225	
148	.664033	.714246	.762132	.807595	.850545	.890900	
150	.751573	.800987	.847810	.891946	.933309	.971817	
152	.842083	.890415	.935875	.978369	1.017813	1.054133	
154	.935941	.982881	1.026648	1.067153	1.104317	1.138070	
156	1.033650	1.078853	1.120562	1.158694	1.193175	1.223942	
158	1.135881	1.178959	1.218201	1.253528	1.284875	1.312189	
160	1.243537	1.284051	1.320359	1.352391	1.380092	1.403417	
162	1.357853	1.395296	1.428130	1.456300	1.479760	1.498479	
164	1.480559	1.514328	1.543053	1.566688	1.585203	1.598584	
166	1.614139	1.643508	1.667349	1.685632	1.698345	1.705493	
168	1.762312	1.786367	1.804349	1.816250	1.822080	1.821866	
170	1.930944	1.948481	1.959321	1.963478	1.960992	1.951920	
172	2.129992	2.139324	2.141215	2.135713	2.122891	2.102845	
174	2.378315	2.376848	2.367007	2.348884	2.322599	2.288299	
176	2.718582	2.701677	2.675117	2.639058	2.593689	2.539229	
178	3.287676	3.244165	3.188856	3.122018	3.043959	2.955026	
180	∞	∞	∞	∞	∞	∞	

ν	$Q_\nu(\cos \theta)$					
	1.30	1.32	1.34	1.36	1.38	1.40
θ						
0	∞	∞	∞	∞	∞	∞
2	2.867345	2.856476	2.845720	2.835073	2.824535	2.814101
4	2.165850	2.154817	2.143896	2.133083	2.122377	2.111776
6	1.748765	1.737514	1.726374	1.715341	1.704414	1.693591
8	1.446976	1.435473	1.424080	1.412795	1.401614	1.390535
10	1.207801	1.196028	1.184363	1.172805	1.161352	1.150001
12	1.007969	.995916	.983972	.972136	.960403	.948774
14	.835199	.822869	.810649	.798537	.786530	.774627
16	.682264	.669668	.657182	.644807	.632538	.620375
18	.544579	.531734	.519003	.506384	.493875	.481473
20	.419078	.406010	.393059	.380224	.367502	.354891
22	.303624	.290364	.277227	.264209	.251310	.238527
24	.196685	.183272	.169986	.156827	.143791	.130878
26	.097135	.083611	.070222	.056966	.043840	.030845
28	.004129	-.009456	-.022900	-.036202	-.049365	-.062390
30	-.082972	-.096568	-.110012	-.123305	-.136449	-.149445
32	-.164665	-.178214	-.191600	-.204824	-.217889	-.230794
34	-.241331	-.254772	-.268038	-.281130	-.294050	-.306798
36	-.313270	-.326539	-.339619	-.352512	-.365220	-.377742
38	-.380716	-.393746	-.406573	-.419197	-.431620	-.443844
40	-.443857	-.456577	-.469078	-.481362	-.493428	-.505278
42	-.502838	-.515177	-.527280	-.539147	-.550780	-.562181
44	-.557778	-.569662	-.581291	-.592666	-.603789	-.614660
46	-.608771	-.620123	-.631201	-.642006	-.652540	-.662804
48	-.655891	-.666635	-.677084	-.687242	-.697107	-.706683
50	-.699199	-.709258	-.719001	-.728431	-.737548	-.746354
52	-.738747	-.748041	-.756999	-.765622	-.773912	-.781869
54	-.774575	-.783028	-.791122	-.798859	-.806242	-.813270
56	-.806719	-.814252	-.821405	-.828179	-.834576	-.840597
58	-.835210	-.841748	-.847882	-.853615	-.858949	-.863887
60	-.860076	-.865542	-.870583	-.875200	-.879397	-.883176
62	-.881343	-.885665	-.889538	-.892966	-.895952	-.898500
64	-.899039	-.902143	-.904777	-.906945	-.908651	-.909898
66	-.913188	-.915005	-.916332	-.917172	-.917530	-.917410
68	-.923818	-.924282	-.924235	-.923682	-.922629	-.921080
70	-.930957	-.930003	-.928521	-.926514	-.923990	-.920955
72	-.934635	-.932205	-.929228	-.925710	-.921660	-.917085
74	-.934887	-.930923	-.926397	-.921316	-.915690	-.909525
76	-.931748	-.926198	-.920073	-.913381	-.906133	-.898337
78	-.925256	-.918073	-.910304	-.901959	-.893049	-.883584
80	-.915455	-.906596	-.897144	-.887108	-.876501	-.865336
82	-.902388	-.891818	-.880646	-.868889	-.856558	-.843669
84	-.886107	-.873791	-.860874	-.847370	-.833294	-.818663
86	-.866663	-.852577	-.837891	-.822622	-.806787	-.790404
88	-.844113	-.828238	-.811768	-.794722	-.777120	-.758981
90	-.818517	-.800839	-.782577	-.763750	-.744382	-.724493

		$Q_\nu(\cos \theta)$					
ν		1.30	1.32	1.34	1.36	1.38	1.40
θ							
90	-.818517	-.800839	-.782576	-.763750	-.744381	-.724492	
92	-.789940	-.770453	-.750395	-.729791	-.708664	-.687037	
94	-.758448	-.737153	-.715307	-.692936	-.670066	-.646723	
96	-.724113	-.701018	-.677397	-.653278	-.628689	-.603660	
98	-.687009	-.662130	-.636755	-.610914	-.584640	-.557962	
100	-.647214	-.620574	-.593475	-.565948	-.538028	-.509750	
102	-.604808	-.576439	-.547652	-.518484	-.488970	-.459147	
104	-.559875	-.529817	-.499389	-.468631	-.437582	-.406281	
106	-.512500	-.480801	-.448788	-.416502	-.383986	-.351282	
108	-.462772	-.429489	-.395954	-.362211	-.328306	-.294284	
110	-.410782	-.375981	-.340996	-.305877	-.270671	-.235425	
112	-.356620	-.320375	-.284024	-.247618	-.211207	-.174842	
114	-.300381	-.262777	-.225151	-.187557	-.150048	-.112679	
116	-.242157	-.203287	-.164487	-.125815	-.087326	-.049076	
118	-.182044	-.142010	-.102148	-.062516	-.023173	.015821	
120	-.120134	-.079051	-.038247	.002215	.042274	.081870	
122	-.056522	-.014511	.027102	.068256	.108884	.148925	
124	.008701	.051506	.093790	.135484	.176523	.216843	
126	.075447	.118904	.161704	.203779	.245060	.285482	
128	.143631	.187584	.230738	.273021	.314365	.354701	
130	.213169	.257454	.300787	.343097	.384311	.424363	
132	.283988	.328427	.371754	.413895	.454777	.494333	
134	.356018	.400423	.443545	.485309	.525645	.564482	
136	.429199	.473368	.516075	.557244	.596804	.634687	
138	.503484	.547201	.589268	.629608	.668152	.704832	
140	.578836	.621873	.663060	.702324	.739595	.774809	
142	.655238	.697349	.737402	.775326	.811053	.844521	
144	.732691	.773615	.812262	.848565	.882458	.913884	
146	.811225	.850679	.887630	.922011	.953762	.982830	
148	.890900	.928582	.963523	.995660	1.024938	1.051311	
150	.971817	1.007400	1.039993	1.069539	1.095988	1.119302	
152	1.054133	1.087260	1.117137	1.143713	1.166948	1.186810	
154	1.138070	1.168350	1.195108	1.218302	1.237900	1.253880	
156	1.223942	1.250944	1.274137	1.293491	1.308985	1.320608	
158	1.312189	1.335426	1.354555	1.369557	1.380424	1.387159	
160	1.403417	1.422337	1.436834	1.446901	1.452547	1.453791	
162	1.498479	1.512442	1.521647	1.526104	1.525839	1.520891	
164	1.598584	1.606831	1.609961	1.608007	1.601013	1.589041	
166	1.705493	1.707099	1.703200	1.693852	1.679128	1.659116	
168	1.821866	1.815657	1.803519	1.785536	1.761811	1.732463	
170	1.951920	1.936341	1.914355	1.886083	1.851663	1.811255	
172	2.102845	2.075694	2.041582	2.000673	1.953153	1.899230	
174	2.288299	2.246157	2.196373	2.139171	2.074799	2.003528	
176	2.539229	2.475930	2.404074	2.323967	2.235948	2.140379	
178	2.955026	2.855606	2.746121	2.627025	2.498809	2.361992	
180	∞	∞	∞	∞	∞	∞	

	$Q_\nu(\cos \theta)$					
	1.40	1.42	1.44	1.46	1.48	1.50
0	∞	∞	∞	∞	∞	∞
2	2.814101	2.803772	2.793544	2.783416	2.773385	2.763451
4	2.111776	2.101277	2.090879	2.080579	2.070376	2.060268
6	1.693591	1.682869	1.672247	1.661723	1.651294	1.640959
8	1.390535	1.379558	1.368680	1.357898	1.347211	1.336618
10	1.150001	1.138750	1.127598	1.116543	1.105582	1.094714
12	.948774	.937245	.925815	.914482	.903244	.892099
14	.774627	.762825	.751123	.739519	.728011	.716597
16	.620375	.608314	.596356	.584497	.572737	.561072
18	.481473	.469178	.456987	.444898	.432911	.421022
20	.354891	.342391	.329999	.317713	.305532	.293454
22	.238527	.225859	.213304	.200860	.188526	.176301
24	.130878	.118085	.105412	.092856	.080417	.068093
26	.030845	.017977	.005236	-.007379	-.019871	-.032240
28	-.062390	-.075278	-.088031	-.100650	-.113136	-.125492
30	-.149445	-.162295	-.174999	-.187560	-.199978	-.212254
32	-.230794	-.243541	-.256132	-.268568	-.280850	-.292979
34	-.306798	-.319377	-.331786	-.344027	-.356102	-.368011
36	-.377742	-.390080	-.402235	-.414209	-.426003	-.437616
38	-.443844	-.455869	-.467696	-.479326	-.490761	-.502001
40	-.505278	-.516913	-.528335	-.539544	-.550540	-.561326
42	-.562181	-.573349	-.584286	-.594993	-.605470	-.615720
44	-.614660	-.625282	-.635654	-.645778	-.655654	-.665284
46	-.662804	-.672798	-.682524	-.691983	-.701175	-.710102
48	-.706683	-.715969	-.724966	-.733677	-.742103	-.750243
50	-.746354	-.754851	-.763039	-.770921	-.778496	-.785767
52	-.781869	-.789496	-.796794	-.803763	-.810407	-.816726
54	-.813270	-.819947	-.826274	-.832253	-.837884	-.843171
56	-.840597	-.846246	-.851523	-.856432	-.860973	-.865150
58	-.863887	-.868430	-.872582	-.876344	-.879719	-.882710
60	-.883176	-.886539	-.889491	-.892033	-.894169	-.895902
62	-.898500	-.900612	-.902293	-.903545	-.904373	-.904779
64	-.909898	-.910691	-.911033	-.910928	-.910381	-.909397
66	-.917410	-.916818	-.915758	-.914234	-.912252	-.909817
68	-.921080	-.919042	-.916520	-.913519	-.910046	-.906106
70	-.920955	-.917415	-.913376	-.908846	-.903830	-.898337
72	-.917085	-.911991	-.906386	-.900279	-.893677	-.886587
74	-.909525	-.902832	-.895618	-.887892	-.879664	-.870943
76	-.898337	-.890003	-.881142	-.871764	-.861878	-.851496
78	-.883584	-.873576	-.863036	-.851976	-.840408	-.828344
80	-.865336	-.853626	-.841384	-.828621	-.815353	-.801593
82	-.843669	-.830236	-.816273	-.801795	-.786817	-.771355
84	-.818663	-.803493	-.787800	-.771601	-.754911	-.737750
86	-.790404	-.773491	-.756066	-.738147	-.719753	-.700903
88	-.758981	-.740327	-.721176	-.701548	-.681466	-.660949
90	-.724493	-.704106	-.683243	-.661927	-.640180	-.618025

		$Q_\nu(\cos \theta)$					
ν		1.40	1.42	1.44	1.46	1.48	1.50
θ							
90		-.724492	-.704105	-.683242	-.661926	-.640179	-.618024
92		-.687037	-.664937	-.642385	-.619409	-.596031	-.572278
94		-.646723	-.622935	-.598727	-.574127	-.549162	-.523859
96		-.603660	-.578219	-.552396	-.526220	-.499720	-.472926
98		-.557962	-.530914	-.503525	-.475829	-.447857	-.419640
100		-.509750	-.481147	-.452254	-.423104	-.393732	-.364171
102		-.459147	-.429053	-.398724	-.368196	-.337506	-.306691
104		-.406281	-.374768	-.343081	-.311262	-.279347	-.247376
106		-.351282	-.318432	-.285478	-.252462	-.219424	-.186407
108		-.294284	-.260189	-.226066	-.191960	-.157913	-.123969
110		-.235425	-.200187	-.165004	-.129923	-.094990	-.060249
112		-.174842	-.138573	-.102450	-.066520	-.030834	.004562
114		-.112679	-.075500	-.038565	-.001924	.034371	.070274
116		-.049076	-.011120	.026486	.063692	.100444	.136692
118		.015821	.054411	.092541	.130155	.167199	.203621
120		.081870	.120943	.159435	.197289	.234451	.270866
122		.148925	.188317	.227001	.264918	.302012	.338229
124		.216843	.256381	.295075	.332867	.369699	.405517
126		.285482	.324981	.363494	.400962	.437327	.472534
128		.354701	.393965	.432095	.469029	.504711	.539086
130		.424363	.463186	.500718	.536898	.571671	.604982
132		.494333	.532497	.569206	.604402	.638029	.670033
134		.564482	.601757	.637407	.671375	.703607	.734052
136		.634687	.670830	.705172	.737657	.768234	.796855
138		.704832	.739587	.772358	.803093	.831743	.858264
140		.774809	.807905	.838830	.867534	.893971	.918103
142		.844521	.875674	.904461	.930836	.954761	.976202
144		.913884	.942790	.969131	.992867	1.013964	1.032394
146		.982830	1.009168	1.032736	1.053501	1.071436	1.086522
148		1.051311	1.074737	1.095184	1.112626	1.127045	1.138431
150		1.119302	1.139447	1.156399	1.170141	1.180666	1.187973
152		1.186810	1.203275	1.216328	1.225965	1.232188	1.235009
154		1.253880	1.266229	1.274944	1.280033	1.281511	1.279405
156		1.320608	1.328361	1.332253	1.332308	1.328554	1.321035
158		1.387159	1.389778	1.388307	1.382783	1.373255	1.359782
160		1.453791	1.450665	1.443215	1.431496	1.415576	1.395537
162		1.520891	1.511313	1.497170	1.478540	1.455515	1.428198
164		1.589041	1.572169	1.550485	1.524094	1.493113	1.457674
166		1.659116	1.633918	1.603654	1.568459	1.528480	1.483880
168		1.732463	1.697629	1.657464	1.612135	1.561829	1.506744
170		1.811255	1.765036	1.713201	1.655962	1.593547	1.526200
172		1.899230	1.839132	1.773106	1.701417	1.624346	1.542194
174		2.003528	1.925653	1.841487	1.751365	1.655639	1.554681
176		2.140379	2.037648	1.928164	1.812362	1.690692	1.563625
178		2.361992	2.217124	2.064780	1.905560	1.740086	1.569002
180		∞	∞	∞	∞	∞	1.570796

		$Q_\nu(\cos \theta)$					
ν		1.50	1.52	1.54	1.56	1.58	1.60
θ							
0		∞	∞	∞	∞	∞	∞
2		2.763450	2.753609	2.743860	2.734202	2.724633	2.715150
4		2.060268	2.050253	2.040329	2.030495	2.020748	2.011088
6		1.640960	1.630716	1.620564	1.610500	1.600523	1.590631
8		1.336618	1.326116	1.315703	1.305379	1.295141	1.284987
10		1.094715	1.083938	1.073251	1.062651	1.052138	1.041710
12		.892099	.881046	.870082	.859207	.848419	.837716
14		.716597	.705277	.694047	.682906	.671854	.660888
16		.561073	.549503	.538026	.526641	.515347	.504141
18		.421022	.409232	.397537	.385937	.374431	.363017
20		.293455	.281479	.269603	.257826	.246147	.234564
22		.176301	.164183	.152170	.140262	.128456	.116752
24		.068093	.055882	.043782	.031794	.019915	.008145
26		-.032240	-.044489	-.056618	-.068628	-.080520	-.092297
28		-.125491	-.137717	-.149813	-.161782	-.173624	-.185340
30		-.212254	-.224390	-.236387	-.248246	-.259968	-.271553
32		-.292979	-.304956	-.316783	-.328459	-.339987	-.351367
34		-.368011	-.379755	-.391336	-.402754	-.414011	-.425106
36		-.437616	-.449051	-.460308	-.471389	-.482294	-.493023
38		-.502001	-.513047	-.523900	-.534561	-.545031	-.555310
40		-.561326	-.571902	-.582268	-.592426	-.602377	-.612121
42		-.615720	-.625742	-.635538	-.645108	-.654454	-.663576
44		-.665284	-.674669	-.683809	-.692707	-.701361	-.709774
46		-.710102	-.718765	-.727165	-.735303	-.743180	-.750797
48		-.750243	-.758100	-.765675	-.772969	-.779983	-.786718
50		-.785767	-.792734	-.799400	-.805766	-.811832	-.817601
52		-.816726	-.822722	-.828397	-.833752	-.838788	-.843508
54		-.843171	-.848115	-.852718	-.856982	-.860909	-.864501
56		-.865150	-.868964	-.872418	-.875514	-.878254	-.880641
58		-.882710	-.885319	-.887550	-.889404	-.890884	-.891995
60		-.895902	-.897235	-.898171	-.898713	-.898866	-.898631
62		-.904778	-.904767	-.904343	-.903508	-.902268	-.900627
64		-.909396	-.907978	-.906131	-.903860	-.901169	-.898063
66		-.909816	-.906933	-.903608	-.899845	-.895650	-.891030
68		-.906105	-.901705	-.896850	-.891547	-.885803	-.879624
70		-.898336	-.892372	-.885944	-.879059	-.871726	-.863952
72		-.886587	-.879018	-.870980	-.862479	-.853526	-.844127
74		-.870942	-.861737	-.852058	-.841914	-.831315	-.820272
76		-.851495	-.840627	-.829284	-.817478	-.805219	-.792519
78		-.828345	-.815794	-.802773	-.789293	-.775367	-.761007
80		-.801592	-.787352	-.772647	-.757492	-.741900	-.725886
82		-.771354	-.755421	-.739035	-.722211	-.704965	-.687313
84		-.737749	-.720131	-.702075	-.683598	-.664719	-.645454
86		-.700902	-.681615	-.661910	-.641807	-.621325	-.600484
88		-.660948	-.640017	-.618694	-.596999	-.574956	-.552583
90		-.618024	-.595484	-.572583	-.549344	-.525789	-.501943

		$Q_\nu(\cos \theta)$					
ν		1.50	1.52	1.54	1.56	1.58	1.60
θ							
90		-.618024	-.595484	-.572583	-.549344	-.525789	-.501943
92		-.572277	-.548173	-.523744	-.499015	-.474011	-.448759
94		-.523858	-.498245	-.472348	-.446196	-.419815	-.393234
96		-.472925	-.445867	-.418573	-.391074	-.363400	-.335579
98		-.419640	-.391211	-.362602	-.333844	-.304969	-.276008
100		-.364171	-.334457	-.304623	-.274704	-.244732	-.214741
102		-.306690	-.275787	-.244830	-.213858	-.182904	-.152005
104		-.247376	-.215388	-.183421	-.151514	-.119704	-.088028
106		-.186407	-.153451	-.120597	-.087885	-.055354	-.023043
108		-.123969	-.090172	-.056563	-.023185	.009919	.042712
110		-.060249	-.025747	.008471	.042364	.075888	.109000
112		.004562	.039622	.074298	.108546	.142321	.175580
114		.070274	.105734	.140704	.175136	.208987	.242210
116		.136692	.172385	.207474	.241911	.275651	.308648
118		.203622	.239369	.274394	.308646	.342080	.374648
120		.270866	.306482	.341248	.375116	.408039	.439970
122		.338230	.373516	.407821	.441096	.473293	.504369
124		.405517	.440267	.473898	.506362	.537612	.567604
126		.472534	.506530	.539265	.570690	.600762	.629436
128		.539086	.572102	.603708	.633860	.662512	.689626
130		.604982	.636780	.667018	.695650	.722636	.747937
132		.670033	.700367	.728984	.755842	.780905	.804135
134		.734052	.762664	.789400	.814222	.837095	.857989
136		.796856	.823478	.848062	.870574	.890984	.909266
138		.858264	.882617	.904769	.924688	.942351	.957740
140		.918103	.939896	.959321	.976354	.990978	1.003180
142		.976202	.995130	1.011523	1.025365	1.036645	1.045359
144		1.032395	1.048139	1.061181	1.071514	1.079134	1.084047
146		1.086522	1.098747	1.108103	1.114593	1.118224	1.119011
148		1.138431	1.146780	1.152098	1.154395	1.153691	1.150012
150		1.187973	1.192070	1.192974	1.190707	1.185302	1.176798
152		1.235009	1.234449	1.230537	1.223310	1.212814	1.199104
154		1.279405	1.273749	1.264586	1.251972	1.235966	1.216640
156		1.321035	1.309801	1.294914	1.276443	1.254470	1.229082
158		1.359783	1.342435	1.321294	1.296448	1.267999	1.236055
160		1.395537	1.371469	1.343474	1.311665	1.276165	1.237106
162		1.428199	1.396706	1.361163	1.321710	1.278493	1.231673
164		1.457674	1.417919	1.374003	1.326094	1.274370	1.219019
166		1.483880	1.434834	1.381531	1.324170	1.262962	1.198131
168		1.506744	1.447093	1.383103	1.315014	1.243074	1.167546
170		1.526200	1.454180	1.377759	1.297222	1.212865	1.124996
172		1.542194	1.455274	1.363915	1.268458	1.169256	1.066672
174		1.554681	1.448876	1.338624	1.224340	1.106449	.985387
176		1.563626	1.431650	1.295269	1.154995	1.011358	.864891
178		1.569002	1.392967	1.212656	1.028758	.841969	.652996
180		1.570796	-∞	-∞	-∞	-∞	-∞

		$Q_\nu(\cos \theta)$				
ν	1.60	1.62	1.64	1.66	1.68	1.70
θ						
0	∞	∞	∞	∞	∞	∞
2	2.715150	2.705753	2.696441	2.687210	2.678061	2.668992
4	2.011088	2.001513	1.992020	1.982609	1.973278	1.964027
6	1.590631	1.580823	1.571098	1.561453	1.551888	1.542400
8	1.284987	1.274917	1.264929	1.255021	1.245191	1.235439
10	1.041710	1.031364	1.021100	1.010916	1.000812	.990785
12	.837716	.827096	.816558	.806101	.795724	.785425
14	.660888	.650007	.639209	.628494	.617860	.607305
16	.504141	.493022	.481989	.471040	.460175	.449392
18	.363017	.351693	.340457	.329310	.318250	.307276
20	.234564	.223076	.211681	.200379	.189168	.178048
22	.116752	.105149	.093645	.082239	.070929	.059716
24	.008145	-.003517	-.015074	-.026526	-.037875	-.049120
26	-.092297	-.103958	-.115505	-.126939	-.138260	-.149471
28	-.185340	-.196932	-.208400	-.219746	-.230970	-.242073
30	-.271553	-.283004	-.294320	-.305503	-.316553	-.327472
32	-.351367	-.362599	-.373686	-.384627	-.395424	-.406077
34	-.425106	-.436041	-.446817	-.457435	-.467895	-.478197
36	-.493023	-.503578	-.513960	-.524168	-.534205	-.544070
38	-.555310	-.565400	-.575302	-.585015	-.594540	-.603879
40	-.612121	-.621660	-.630993	-.640122	-.649047	-.657770
42	-.663576	-.672475	-.681153	-.689608	-.697844	-.705859
44	-.709774	-.717946	-.725879	-.733573	-.741029	-.748247
46	-.750797	-.758155	-.765256	-.772099	-.778687	-.785019
48	-.786718	-.793176	-.799357	-.805263	-.810895	-.816255
50	-.817601	-.823074	-.828251	-.833136	-.837728	-.842030
52	-.843508	-.847913	-.852006	-.855786	-.859257	-.862420
54	-.864501	-.867759	-.870687	-.873285	-.875557	-.877504
56	-.880641	-.882677	-.884365	-.885708	-.886706	-.887365
58	-.891995	-.892737	-.893115	-.893132	-.892789	-.892092
60	-.898631	-.898013	-.897016	-.895643	-.893897	-.891783
62	-.900627	-.898587	-.896155	-.893334	-.890129	-.886543
64	-.898063	-.894547	-.890627	-.886307	-.881592	-.876489
66	-.891030	-.885989	-.880534	-.874671	-.868406	-.861744
68	-.879624	-.873017	-.865989	-.858546	-.850696	-.842446
70	-.863952	-.855745	-.847112	-.838061	-.828601	-.818741
72	-.844127	-.834293	-.824033	-.813355	-.802270	-.790786
74	-.820272	-.808795	-.796893	-.784578	-.771860	-.758750
76	-.792519	-.779389	-.765842	-.751888	-.737541	-.722812
78	-.761007	-.746226	-.731038	-.715455	-.699491	-.683161
80	-.725886	-.709464	-.692649	-.675457	-.657901	-.639998
82	-.687313	-.669270	-.650855	-.632082	-.612969	-.593532
84	-.645454	-.625822	-.605840	-.585528	-.564903	-.543983
86	-.600484	-.579302	-.557801	-.536001	-.513920	-.491580
88	-.552583	-.529905	-.506941	-.483714	-.460247	-.436559
90	-.501943	-.477829	-.453471	-.428892	-.404116	-.379166

ν	$Q_\nu(\cos \theta)$					
	1.60	1.62	1.64	1.66	1.68	1.70
θ						
90	-.501943	-.477829	-.453471	-.428892	-.404116	-.379166
92	-.448759	-.423283	-.397609	-.371762	-.345768	-.319653
94	-.393234	-.366480	-.339580	-.312562	-.285452	-.258279
96	-.335579	-.307641	-.279617	-.251533	-.223421	-.195309
98	-.276008	-.246993	-.217955	-.188925	-.159935	-.131013
100	-.214741	-.184765	-.154838	-.124990	-.095256	-.065667
102	-.152005	-.121196	-.090511	-.059986	-.029654	.000450
104	-.088028	-.056523	-.025226	.005825	.036599	.067058
106	-.023043	.009007	.040762	.072182	.103230	.133872
108	.042712	.075151	.107199	.138816	.169964	.200606
110	.109000	.141659	.173825	.205459	.236520	.266973
112	.175580	.208281	.240382	.271842	.302623	.332687
114	.242210	.274764	.306606	.337696	.367993	.397462
116	.308648	.340858	.372239	.402751	.432354	.461011
118	.374648	.406309	.437019	.466738	.495428	.523052
120	.439970	.470866	.500686	.529391	.556942	.583304
122	.504369	.534278	.562983	.590443	.616622	.641488
124	.567604	.596297	.623651	.649630	.674200	.697330
126	.629436	.656673	.682437	.706692	.729408	.750556
128	.689626	.715162	.739088	.761370	.781983	.800900
130	.747937	.771520	.793353	.813409	.831663	.848096
132	.804135	.825505	.844985	.862554	.878192	.891883
134	.857989	.876878	.893739	.908555	.921312	.932001
136	.909266	.925401	.939370	.951163	.960772	.968195
138	.957740	.970837	.981636	.990129	.996319	1.000208
140	1.003180	1.012952	1.020292	1.025205	1.027697	1.027784
142	1.045359	1.051507	1.055096	1.056139	1.054653	1.050663
144	1.084047	1.086263	1.085798	1.082676	1.076924	1.068577
146	1.119011	1.116975	1.112144	1.104551	1.094238	1.081251
148	1.150012	1.143390	1.133867	1.121490	1.106311	1.088392
150	1.176798	1.165241	1.150686	1.133195	1.112834	1.089680
152	1.199104	1.182241	1.162295	1.139342	1.113469	1.084765
154	1.216640	1.194073	1.168351	1.139569	1.107830	1.073241
156	1.229082	1.200378	1.168463	1.133452	1.095467	1.054635
158	1.236055	1.200735	1.162167	1.120487	1.075837	1.028368
160	1.237106	1.194631	1.148891	1.100045	1.048260	.993712
162	1.231673	1.181418	1.127905	1.071319	1.011856	.949716
164	1.219019	1.160238	1.098236	1.033228	.965438	.895096
166	1.198131	1.129908	1.058534	.984259	.907339	.828038
168	1.167546	1.088701	1.006818	.922185	.835099	.745859
170	1.124996	1.033932	.939998	.843528	.744861	.644342
172	1.066672	.961079	.852860	.742399	.630092	.516334
174	.985387	.861596	.735529	.607642	.478396	.348252
176	.864891	.716138	.565648	.413972	.261664	.109276
178	.652996	.462547	.271336	.080074	-.110528	-.299769
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$Q_\nu(\cos \theta)$				
ν	1.70	1.72	1.74	1.76	1.78	1.80
θ						
0	∞	∞	∞	∞	∞	∞
2	2.668992	2.660000	2.651085	2.642247	2.633483	2.624791
4	1.964027	1.954852	1.945754	1.936730	1.927780	1.918902
6	1.542400	1.532989	1.523654	1.514392	1.505204	1.496086
8	1.235439	1.225763	1.216162	1.206635	1.197179	1.187795
10	.990785	.980833	.970957	.961154	.951424	.941764
12	.785425	.775203	.765056	.754984	.744985	.735057
14	.607305	.596829	.586430	.576106	.565858	.555683
16	.449392	.438689	.428067	.417523	.407056	.396665
18	.307276	.296385	.285578	.274853	.264209	.253645
20	.178048	.167016	.156072	.145215	.134444	.123758
22	.059716	.048598	.037573	.026641	.015802	.005053
24	-.049120	-.060263	-.071305	-.082247	-.093090	-.103835
26	-.149471	-.160571	-.171561	-.182443	-.193217	-.203885
28	-.242073	-.253056	-.263920	-.274665	-.285293	-.295805
30	-.327472	-.338259	-.348917	-.359445	-.369845	-.380117
32	-.406077	-.416587	-.426955	-.437181	-.447266	-.457211
34	-.478197	-.488344	-.498335	-.508171	-.517853	-.527381
36	-.544070	-.553765	-.563290	-.572646	-.581833	-.590852
38	-.603879	-.613033	-.622001	-.630784	-.639384	-.647800
40	-.657770	-.666291	-.674610	-.682729	-.690647	-.698367
42	-.705859	-.713656	-.721235	-.728597	-.735742	-.742672
44	-.748247	-.755230	-.761977	-.768490	-.774770	-.780818
46	-.785019	-.791098	-.796925	-.802500	-.807824	-.812899
48	-.816255	-.821343	-.826161	-.830711	-.834993	-.839008
50	-.842030	-.846043	-.849769	-.853209	-.856365	-.859238
52	-.862420	-.865277	-.867830	-.870081	-.872031	-.873684
54	-.877504	-.879129	-.880433	-.881420	-.882091	-.882449
56	-.887365	-.887685	-.887671	-.887324	-.886648	-.885645
58	-.892092	-.891043	-.889645	-.887901	-.885816	-.883392
60	-.891783	-.889304	-.886465	-.883269	-.879720	-.875823
62	-.886543	-.882583	-.878251	-.873554	-.868496	-.863082
64	-.876489	-.871001	-.865135	-.858897	-.852291	-.845324
66	-.861744	-.854693	-.847259	-.839447	-.831266	-.822721
68	-.842446	-.833803	-.824775	-.815369	-.805593	-.795455
70	-.818741	-.808488	-.797850	-.786838	-.775458	-.763721
72	-.790786	-.778913	-.766661	-.754040	-.741059	-.727729
74	-.758750	-.745258	-.731396	-.717175	-.702606	-.687700
76	-.722812	-.707713	-.692256	-.676456	-.660322	-.643870
78	-.683161	-.666477	-.649453	-.632103	-.614442	-.596483
80	-.639998	-.621761	-.603208	-.584353	-.565211	-.545799
82	-.593532	-.573788	-.553755	-.533448	-.512886	-.492085
84	-.543983	-.522788	-.501335	-.479644	-.457733	-.435620
86	-.491580	-.469001	-.446202	-.423204	-.400028	-.376693
88	-.436559	-.412675	-.388615	-.364401	-.340055	-.315600
90	-.379166	-.354067	-.328842	-.303514	-.278107	-.252644

ν	$Q_\nu(\cos \theta)$					
	1.70	1.72	1.74	1.76	1.78	1.80
θ						
90	-.379166	-.354067	-.328842	-.303514	-.278107	-.252644
92	-.319653	-.293442	-.267159	-.240831	-.214482	-.188138
94	-.258279	-.231069	-.203849	-.176646	-.149487	-.122397
96	-.195309	-.167225	-.139199	-.111258	-.083430	-.055744
98	-.131013	-.102192	-.073501	-.044970	-.016627	.011497
100	-.065667	-.036255	-.007052	.021911	.050605	.078999
102	.000450	.030295	.059847	.089075	.117946	.146431
104	.067058	.097169	.126897	.156210	.185076	.213463
106	.133872	.164071	.193793	.223005	.251672	.279765
108	.200606	.230707	.260231	.289145	.317414	.345008
110	.266973	.296781	.325907	.354319	.381982	.408865
112	.332687	.361998	.390519	.418217	.445059	.471013
114	.397462	.426063	.453764	.480530	.506329	.531131
116	.461011	.488686	.515344	.540954	.565484	.588906
118	.523052	.549575	.574964	.599188	.622217	.644026
120	.583304	.608444	.632330	.654934	.676228	.696188
122	.641488	.665008	.687155	.707900	.727220	.745094
124	.697330	.718990	.739154	.757800	.774906	.790455
126	.750556	.770110	.788049	.804351	.819002	.831986
128	.800900	.818100	.833564	.847278	.859230	.869411
130	.848096	.862689	.875431	.886310	.895320	.902460
132	.891883	.903615	.913382	.921179	.927006	.930868
134	.932001	.940616	.947156	.951624	.954027	.954377
136	.968195	.973433	.976493	.977385	.976125	.972732
138	1.000208	1.001809	1.001135	.998205	.993044	.985681
140	1.027784	1.025484	1.020821	1.013824	1.004528	.992970
142	1.050663	1.044196	1.035289	1.023980	1.010315	.994343
144	1.068577	1.057677	1.044267	1.028402	1.010136	.989533
146	1.081251	1.065643	1.047473	1.026805	1.003709	.978261
148	1.088392	1.067798	1.044603	1.018885	.990728	.960223
150	1.089680	1.063815	1.035325	1.004305	.970855	.935081
152	1.084765	1.053329	1.019265	.982686	.943706	.902448
154	1.073241	1.035921	.995992	.953583	.908828	.861868
156	1.054635	1.011095	.964988	.916463	.865674	.812782
158	1.028368	.978239	.925614	.870662	.813560	.754488
160	.993712	.936581	.877056	.815331	.751603	.686077
162	.949716	.885107	.818243	.749343	.678631	.606334
164	.895096	.822439	.747710	.671155	.593027	.513579
166	.828038	.746626	.663376	.578567	.492481	.405402
168	.745859	.654771	.562147	.468299	.373543	.278195
170	.644342	.542319	.439144	.335171	.230753	.126244
172	.516334	.401525	.286065	.170356	.054797	-.060215
174	.348252	.217673	.087123	-.042939	-.172059	-.299787
176	.109276	-.042641	-.193542	-.342888	-.490146	-.634796
178	-.299769	-.486953	-.671394	-.852421	-1.029379	-1.201627
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

ν	$Q_\nu(\cos \theta)$					
	1.80	1.82	1.84	1.86	1.88	1.90
θ						
0	∞	∞	∞	∞	∞	∞
2	2.624791	2.616172	2.607623	2.599144	2.590733	2.582390
4	1.918902	1.910095	1.901358	1.892689	1.884088	1.875554
6	1.496086	1.487038	1.478060	1.469150	1.460307	1.451529
8	1.187795	1.178480	1.169235	1.160056	1.150945	1.141898
10	.941764	.932175	.922654	.913201	.903815	.894495
12	.735057	.725201	.715414	.705696	.696045	.686462
14	.555683	.545581	.535550	.525590	.515699	.505876
16	.396665	.386350	.376109	.365941	.355846	.345821
18	.253645	.243160	.232753	.222423	.212169	.201991
20	.123758	.113156	.102636	.092199	.081843	.071568
22	.005053	-.005605	-.016174	-.026656	-.037049	-.047356
24	-.103835	-.114482	-.125033	-.135487	-.145847	-.156112
26	-.203885	-.214446	-.224901	-.235253	-.245500	-.255643
28	-.295805	-.306200	-.316479	-.326644	-.336695	-.346633
30	-.380117	-.390261	-.400279	-.410171	-.419938	-.429580
32	-.457211	-.467017	-.476683	-.486212	-.495602	-.504856
34	-.527381	-.536757	-.545979	-.555051	-.563971	-.572740
36	-.590852	-.599704	-.608389	-.616908	-.625262	-.633450
38	-.647800	-.656034	-.664086	-.671957	-.679647	-.687157
40	-.698367	-.705889	-.713213	-.720339	-.727270	-.734004
42	-.742672	-.749387	-.755888	-.762175	-.768251	-.774114
44	-.780818	-.786634	-.792219	-.797575	-.802702	-.807601
46	-.812899	-.817726	-.822306	-.826640	-.830729	-.834574
48	-.839008	-.842759	-.846247	-.849473	-.852438	-.855144
50	-.859238	-.861830	-.864144	-.866179	-.867939	-.869426
52	-.873684	-.875040	-.876102	-.876872	-.877352	-.877544
54	-.882449	-.882497	-.882236	-.881671	-.880802	-.879633
56	-.885645	-.884319	-.882672	-.880708	-.878429	-.875840
58	-.883392	-.880634	-.877544	-.874127	-.870386	-.866325
60	-.875823	-.871582	-.867001	-.862085	-.856837	-.851264
62	-.863082	-.857316	-.851205	-.844753	-.837965	-.830847
64	-.845324	-.838002	-.830331	-.822316	-.813964	-.805281
66	-.822721	-.813820	-.804569	-.794975	-.785045	-.774787
68	-.795455	-.784962	-.774122	-.762944	-.751435	-.739604
70	-.763721	-.751635	-.739209	-.726452	-.713375	-.699985
72	-.727729	-.714060	-.700062	-.685745	-.671120	-.656198
74	-.687700	-.672469	-.656925	-.641078	-.624941	-.608525
76	-.643870	-.627110	-.610057	-.592723	-.575121	-.557264
78	-.596483	-.578241	-.559729	-.540963	-.521956	-.502724
80	-.545799	-.526131	-.506224	-.486093	-.465755	-.445225
82	-.492085	-.471062	-.449835	-.428420	-.406836	-.385100
84	-.435620	-.413325	-.390865	-.368261	-.345530	-.322691
86	-.376693	-.353220	-.329629	-.305940	-.282173	-.258349
88	-.315600	-.291056	-.266446	-.241791	-.217113	-.192433
90	-.252644	-.227149	-.201645	-.176154	-.150700	-.125305

		$Q_\nu(\cos \theta)$					
ν		1.80	1.82	1.84	1.86	1.88	1.90
θ							
90		-.252644	-.227149	-.201645	-.176154	-.150700	-.125305
92		-.188138	-.161822	-.135560	-.109376	-.083294	-.057337
94		-.122397	-.095404	-.068532	-.041807	-.015255	.011098
96		-.055744	-.028226	-.000903	.026196	.053049	.079627
98		.011497	.039375	.066980	.094282	.121255	.147872
100		.078999	.107063	.134770	.162089	.188994	.215458
102		.146431	.174498	.202118	.229262	.255902	.282011
104		.213463	.241340	.268676	.295444	.321615	.347160
106		.279765	.307250	.334099	.360282	.385771	.410539
108		.345008	.371894	.398043	.423427	.448017	.471786
110		.408865	.434937	.460169	.484532	.508000	.530548
112		.471013	.496050	.520141	.543260	.565380	.586478
114		.531131	.554908	.577631	.599276	.619819	.639238
116		.588906	.611191	.632316	.652257	.670992	.688501
118		.644026	.664588	.683881	.701885	.718580	.733950
120		.696188	.714792	.732019	.747852	.762277	.775278
122		.745094	.761503	.776430	.789861	.801784	.812192
124		.790455	.804432	.816824	.827621	.836818	.844409
126		.831986	.843295	.852919	.860855	.867101	.871659
128		.869411	.877816	.884443	.889293	.892370	.893683
130		.902460	.907728	.911131	.912675	.912372	.910236
132		.930868	.932770	.932726	.930750	.926861	.921080
134		.954377	.952688	.948979	.943275	.935602	.925990
136		.972732	.967229	.959645	.950012	.938366	.924747
138		.985681	.976148	.964483	.950728	.934929	.917136
140		.992970	.979195	.963250	.945189	.925068	.902947
142		.994343	.976119	.955703	.933159	.908555	.881965
144		.989533	.966660	.941587	.914393	.885158	.853968
146		.978261	.950541	.920634	.888631	.854626	.818718
148		.960223	.927463	.892550	.855586	.816683	.775951
150		.935081	.897092	.857004	.814937	.771015	.725366
152		.902448	.859040	.813613	.766303	.717252	.666603
154		.861868	.812848	.761917	.709230	.654944	.599220
156		.812782	.757950	.701347	.643146	.583523	.522655
158		.754488	.693631	.631179	.567323	.502258	.436182
160		.686077	.618960	.550462	.480797	.410179	.338826
162		.606334	.532685	.457916	.382263	.305963	.229253
164		.513579	.433068	.351754	.269896	.187753	.105584
166		.405402	.317614	.229403	.141055	.052853	-.034919
168		.278195	.182572	.086988	-.008241	-.102807	-.196404
170		.126244	.021994	-.081645	-.184332	-.285726	-.385493
172		-.060215	-.174289	-.287038	-.398080	-.507044	-.613566
174		-.299787	-.425680	-.549304	-.670237	-.788066	-.902392
176		-.634796	-.776328	-.914247	-1.048073	-1.177342	-1.301609
178		-1.201627	-1.368548	-1.529545	-1.684046	-1.831507	-1.971410
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$Q_\nu(\cos \theta)$					
ν		1.90	1.92	1.94	1.96	1.98	2.00
θ							
0		∞	∞	∞	∞	∞	∞
2		2.582390	2.574112	2.565900	2.557751	2.549666	2.541644
4		1.875554	1.867085	1.858680	1.850339	1.842060	1.833842
6		1.451529	1.442816	1.434166	1.425580	1.417055	1.408590
8		1.141898	1.132916	1.123998	1.115142	1.106346	1.097612
10		.894495	.885239	.876047	.866917	.857849	.848841
12		.686462	.676944	.667490	.658100	.648773	.639508
14		.505876	.496121	.486433	.476810	.467252	.457758
16		.345821	.335867	.325983	.316167	.306419	.296738
18		.201991	.191887	.181856	.171898	.162012	.152197
20		.071568	.061372	.051255	.041216	.031254	.021368
22		-.047356	-.057577	-.067712	-.077763	-.087730	-.097615
24		-.156112	-.166283	-.176361	-.186348	-.196242	-.206046
26		-.255643	-.265684	-.275624	-.285462	-.295199	-.304836
28		-.346633	-.356458	-.366170	-.375772	-.385261	-.394641
30		-.429580	-.439098	-.448492	-.457763	-.466912	-.475939
32		-.504856	-.513972	-.522953	-.531798	-.540509	-.549085
34		-.572740	-.581359	-.589829	-.598150	-.606323	-.614347
36		-.633450	-.641474	-.649334	-.657031	-.664566	-.671938
38		-.687157	-.694488	-.701640	-.708614	-.715410	-.722029
40		-.734004	-.740544	-.746889	-.753041	-.759001	-.764768
42		-.774114	-.779767	-.785210	-.790444	-.795470	-.800288
44		-.807601	-.812274	-.816721	-.820944	-.824943	-.828719
46		-.834574	-.838177	-.841539	-.844661	-.847544	-.850191
48		-.855144	-.857592	-.859784	-.861722	-.863406	-.864839
50		-.869426	-.870640	-.871583	-.872259	-.872667	-.872812
52		-.877544	-.877450	-.877074	-.876416	-.875480	-.874268
54		-.879633	-.878166	-.876405	-.874352	-.872009	-.869380
56		-.875840	-.872942	-.869740	-.866237	-.862437	-.858342
58		-.866325	-.861948	-.857259	-.852262	-.846961	-.841360
60		-.851264	-.845368	-.839156	-.832631	-.825798	-.818663
62		-.830847	-.823404	-.815642	-.807566	-.799182	-.790495
64		-.805281	-.796273	-.786946	-.777308	-.767364	-.757122
66		-.774787	-.764208	-.753314	-.742115	-.730616	-.718826
68		-.739604	-.727459	-.715008	-.702261	-.689224	-.675908
70		-.699985	-.686292	-.672306	-.658037	-.643494	-.628686
72		-.656198	-.640988	-.625503	-.609751	-.593746	-.577496
74		-.608525	-.591843	-.574906	-.557726	-.540315	-.522686
76		-.557264	-.539166	-.520839	-.502297	-.483554	-.464622
78		-.502724	-.483279	-.463638	-.443815	-.423824	-.403680
80		-.445225	-.424518	-.403652	-.382641	-.361502	-.340250
82		-.385100	-.363228	-.341238	-.319146	-.296972	-.274730
84		-.322691	-.299763	-.276764	-.253713	-.230629	-.207529
86		-.258349	-.234488	-.210608	-.186730	-.162874	-.139059
88		-.192433	-.167772	-.143152	-.118593	-.094116	-.069742
90		-.125305	-.099992	-.074783	-.049700	-.024765	-.000000

		$Q_\nu(\cos \theta)$					
ν		1.90	1.92	1.94	1.96	1.98	2.00
θ							
90		-.125305	-.099992	-.074783	-.049700	-.024765	.000000
92		-.057337	-.031530	-.005896	.019542	.044762	.069742
94		.011098	.037230	.063116	.088732	.114054	.139059
96		.079627	.105905	.131858	.157463	.182694	.207529
98		.147872	.174107	.199936	.225331	.250271	.274730
100		.215458	.241454	.266955	.291938	.316378	.340250
102		.282011	.307562	.332529	.356887	.380612	.403680
104		.347160	.372055	.396272	.419788	.442579	.464622
106		.410539	.434560	.457808	.480260	.501893	.522686
108		.471786	.494711	.516766	.537930	.558180	.577496
110		.530548	.552151	.572787	.592434	.611073	.628687
112		.586478	.606531	.625519	.643423	.660225	.675908
114		.639238	.657513	.674625	.690557	.705295	.718826
116		.688501	.704768	.719776	.733512	.745964	.757122
118		.733950	.747981	.760659	.771976	.781923	.790495
120		.775278	.786847	.796975	.805655	.812885	.818663
122		.812192	.821077	.828437	.834269	.838575	.841360
124		.844409	.850394	.854774	.857554	.858740	.858342
126		.871659	.874532	.875730	.875261	.873139	.869380
128		.893683	.893242	.891062	.887158	.881552	.874268
130		.910236	.906285	.900541	.893029	.883775	.872812
132		.921080	.913435	.903954	.892669	.879618	.864839
134		.925990	.914475	.901094	.885889	.868905	.850191
136		.924747	.909198	.891768	.872508	.851472	.828719
138		.917136	.897404	.875790	.852355	.827165	.800288
140		.902947	.878893	.852973	.825261	.795833	.764768
142		.881965	.853464	.823135	.791060	.757328	.722029
144		.853968	.820911	.786081	.749575	.711493	.671938
146		.818718	.781009	.741606	.700619	.658161	.614347
148		.775951	.733509	.689476	.643977	.597137	.549085
150		.725366	.678123	.629419	.579394	.528186	.475939
152		.666603	.614504	.561104	.506557	.451017	.394641
154		.599220	.542221	.484115	.425069	.365252	.304836
156		.522655	.460725	.397915	.334408	.270390	.206046
158		.436182	.369294	.301792	.233879	.165753	.097615
160		.338826	.266955	.194783	.122528	.050406	-.021368
162		.229253	.152371	.075551	-.000970	-.076963	-.152197
164		.105584	.023646	-.057804	-.138517	-.218242	-.296738
166		-.034919	-.121985	-.208070	-.292901	-.376217	-.457758
168		-.196404	-.288729	-.379486	-.468388	-.555152	-.639508
170		-.385493	-.483309	-.578854	-.671822	-.761913	-.848842
172		-.613566	-.717293	-.817883	-.915008	-1.008351	-1.097612
174		-.902392	-1.012830	-1.119012	-1.220586	-1.317217	-1.408590
176		-1.301609	-1.420450	-1.533463	-1.640265	-1.740502	-1.833842
178		-1.971410	-2.103267	-2.226624	-2.341058	-2.446181	-2.541644
180		-∞	-∞	-∞	-∞	-∞	-∞

		$Q_\nu(\cos \theta)$					
ν		2.00	2.02	2.04	2.06	2.08	2.10
θ							
0	∞	∞	∞	∞	∞	∞	∞
2		2.541644	2.533681	2.525780	2.517938	2.510153	2.502428
4		1.833842	1.825684	1.817586	1.809547	1.801565	1.793640
6		1.408590	1.400185	1.391839	1.383552	1.375320	1.367146
8		1.097612	1.088936	1.080320	1.071761	1.063259	1.054813
10		.848841	.839894	.831005	.822175	.813402	.804685
12		.639508	.630303	.621159	.612074	.603047	.594079
14		.457758	.448326	.438957	.429650	.420403	.411216
16		.296738	.287123	.277573	.268088	.258667	.249309
18		.152197	.142453	.132778	.123172	.113635	.104164
20		.021368	.011559	.001824	-.007834	-.017421	-.026934
22		-.097615	-.107416	-.117136	-.126775	-.136333	-.145811
24		-.206046	-.215759	-.225382	-.234916	-.244361	-.253718
26		-.304836	-.314373	-.323812	-.333152	-.342394	-.351538
28		-.394641	-.403911	-.413071	-.422122	-.431065	-.439899
30		-.475939	-.484844	-.493629	-.502292	-.510836	-.519260
32		-.549085	-.557526	-.565835	-.574010	-.582052	-.589963
34		-.614347	-.622224	-.629955	-.637538	-.644976	-.652268
36		-.671938	-.679149	-.686198	-.693087	-.699816	-.706386
38		-.722029	-.728472	-.734739	-.740831	-.746749	-.752492
40		-.764768	-.770344	-.775729	-.780923	-.785929	-.790746
42		-.800288	-.804900	-.809306	-.813507	-.817503	-.821297
44		-.828719	-.832274	-.835608	-.838722	-.841619	-.844298
46		-.850191	-.852600	-.854775	-.856717	-.858426	-.859905
48		-.864839	-.866022	-.866957	-.867646	-.868089	-.868289
50		-.872812	-.872694	-.872315	-.871677	-.870784	-.869635
52		-.874268	-.872781	-.871023	-.868997	-.866704	-.864147
54		-.869380	-.866468	-.863276	-.859806	-.856062	-.852046
56		-.858342	-.853956	-.849283	-.844327	-.839090	-.833578
58		-.841360	-.835464	-.829276	-.822801	-.816043	-.809007
60		-.818663	-.811230	-.803504	-.795490	-.787194	-.778621
62		-.790495	-.781512	-.772238	-.762678	-.752840	-.742729
64		-.757122	-.746587	-.735767	-.724669	-.713298	-.701663
66		-.718826	-.706752	-.694402	-.681784	-.668905	-.655774
68		-.675908	-.662321	-.648470	-.634367	-.620018	-.605433
70		-.628686	-.613625	-.598318	-.582777	-.567012	-.551031
72		-.577496	-.561013	-.544309	-.527394	-.510279	-.492975
74		-.522686	-.504851	-.486821	-.468609	-.450227	-.431687
76		-.464622	-.445515	-.426246	-.406829	-.387278	-.367604
78		-.403680	-.383398	-.362991	-.342476	-.321865	-.301175
80		-.340250	-.318902	-.297473	-.275978	-.254435	-.232857
82		-.274730	-.252439	-.230116	-.207777	-.185439	-.163119
84		-.207529	-.184431	-.161355	-.138318	-.115337	-.092431
86		-.139059	-.115305	-.091630	-.068054	-.044595	-.021272
88		-.069742	-.045491	-.021383	.002560	.026322	.049882
90		-.000000	.024575	.048938	.073070	.096949	.120555

		$Q_\nu(\cos \theta)$					
ν		2.00	2.02	2.04	2.06	2.08	2.10
θ							
90	.000000	.024575	.048938	.073070	.096949	.120555	
92	.069742	.094459	.118891	.143018	.166819	.190272	
94	.139059	.163726	.188031	.211953	.235471	.258565	
96	.207529	.231944	.255917	.279427	.302452	.324972	
98	.274730	.298687	.322117	.345000	.367315	.389042	
100	.340250	.363533	.386203	.408241	.429624	.450334	
102	.403680	.426070	.447759	.468728	.488956	.508424	
104	.464622	.485896	.506379	.526053	.544900	.562901	
106	.522686	.542618	.561670	.579824	.597063	.613371	
108	.577496	.595860	.613254	.629662	.645069	.659461	
110	.628687	.645256	.660767	.675206	.688560	.700819	
112	.675908	.690459	.703866	.716116	.727201	.737114	
114	.718826	.731138	.742222	.752070	.760677	.768038	
116	.757122	.766979	.775529	.782768	.788695	.793310	
118	.790495	.797688	.803500	.807932	.810983	.812671	
120	.818663	.822990	.825869	.827307	.827311	.825892	
122	.841360	.842629	.842392	.840660	.837446	.832767	
124	.858342	.856373	.852847	.847782	.841198	.833118	
126	.869380	.864004	.857031	.848487	.838397	.826792	
128	.874268	.865329	.854767	.842611	.828898	.813664	
130	.872812	.860172	.845893	.830015	.812580	.793633	
132	.864839	.848375	.830271	.810576	.789340	.766619	
134	.850191	.829797	.807778	.784193	.759101	.732566	
136	.828719	.804309	.778307	.750781	.721800	.691436	
138	.800288	.771796	.741763	.710267	.677388	.643208	
140	.764768	.732148	.698059	.662589	.625829	.587871	
142	.722029	.685258	.647112	.607689	.567091	.525421	
144	.671938	.631016	.588834	.545505	.501140	.455854	
146	.614347	.569296	.523128	.475965	.427933	.379155	
148	.549085	.499952	.449871	.398977	.347405	.295292	
150	.475939	.422796	.368904	.314408	.259456	.204196	
152	.394641	.337586	.280010	.222072	.163931	.105745	
154	.304836	.243991	.182888	.121698	.060592	-.000262	
156	.206046	.141559	.077115	.012896	-.050917	-.114145	
158	.097615	.029662	-.037906	-.104900	-.171124	-.236392	
160	-.021368	-.092585	-.163033	-.232508	-.300807	-.367735	
162	-.152197	-.226448	-.299493	-.371119	-.441112	-.509270	
164	-.296738	-.373765	-.449090	-.522489	-.593742	-.662639	
166	-.457758	-.537272	-.614518	-.689261	-.761275	-.830345	
168	-.639508	-.721190	-.799946	-.875536	-.947728	-1.016304	
170	-.848842	-.932333	-1.012125	-1.087972	-1.159638	-1.226906	
172	-1.097612	-1.182506	-1.262764	-1.338134	-1.408384	-1.473298	
174	-1.408590	-1.491410	-1.574403	-1.648316	-1.715919	-1.777007	
176	-1.833842	-1.919980	-1.998641	-2.069576	-2.132562	-2.187412	
178	-2.541644	-2.627130	-2.702364	-2.767111	-2.821171	-2.864391	
180	-∞	-∞	-∞	-∞	-∞	-∞	

		$Q_\nu(\cos \theta)$					
ν		2.10	2.12	2.14	2.16	2.18	2.20
θ							
0	∞	∞	∞	∞	∞	∞	∞
2		2.502428	2.494757	2.487144	2.479585	2.472080	2.464629
4		1.793640	1.785770	1.777956	1.770196	1.762490	1.754836
6		1.367146	1.359026	1.350961	1.342950	1.334991	1.327085
8		1.054813	1.046422	1.038086	1.029803	1.021573	1.013395
10		.804685	.796024	.787418	.778866	.770367	.761921
12		.594079	.585167	.576311	.567511	.558765	.550073
14		.411216	.402088	.393019	.384007	.375052	.366154
16		.249309	.240014	.230779	.221607	.212494	.203442
18		.104164	.094761	.085424	.076153	.066946	.057804
20		-.026934	-.036374	-.045743	-.055040	-.064267	-.073423
22		-.145811	-.155209	-.164529	-.173770	-.182934	-.192020
24		-.253718	-.262988	-.272171	-.281267	-.290277	-.299201
26		-.351538	-.360586	-.369537	-.378392	-.387151	-.395815
28		-.439899	-.448627	-.457247	-.465760	-.474168	-.482469
30		-.519260	-.527566	-.535752	-.543820	-.551771	-.559603
32		-.589963	-.597741	-.605389	-.612906	-.620292	-.627548
34		-.652268	-.659415	-.666418	-.673276	-.679991	-.686562
36		-.706386	-.712796	-.719048	-.725142	-.731079	-.736858
38		-.752492	-.758063	-.763460	-.768685	-.773739	-.778622
40		-.790746	-.795375	-.799818	-.804074	-.808144	-.812029
42		-.821297	-.824889	-.828280	-.831470	-.834461	-.837253
44		-.844298	-.846761	-.849009	-.851043	-.852864	-.854474
46		-.859905	-.861154	-.862176	-.862971	-.863541	-.863887
48		-.868289	-.868248	-.867967	-.867448	-.866693	-.865703
50		-.869635	-.868235	-.866585	-.864686	-.862543	-.860155
52		-.864147	-.861329	-.858252	-.854920	-.851335	-.847499
54		-.852046	-.847763	-.843215	-.838405	-.833337	-.828014
56		-.833578	-.827793	-.821739	-.815422	-.808843	-.802007
58		-.809007	-.801697	-.794117	-.786273	-.778169	-.769810
60		-.778621	-.769775	-.760662	-.751288	-.741658	-.731778
62		-.742729	-.732351	-.721712	-.710818	-.699677	-.688293
64		-.701663	-.689770	-.677626	-.665238	-.652615	-.639761
66		-.655774	-.642398	-.628786	-.614945	-.600884	-.586610
68		-.605433	-.590622	-.575593	-.560355	-.544917	-.529289
70		-.551031	-.534846	-.518467	-.501903	-.485165	-.468264
72		-.492975	-.475494	-.457847	-.440045	-.422099	-.404020
74		-.431687	-.413003	-.394185	-.375246	-.356200	-.337057
76		-.367604	-.347823	-.327947	-.307990	-.287965	-.267885
78		-.301175	-.280419	-.259611	-.238767	-.217901	-.197026
80		-.232857	-.211262	-.189664	-.168079	-.146522	-.125008
82		-.163119	-.140833	-.118599	-.096432	-.074348	-.052364
84		-.092431	-.069618	-.046913	-.024335	-.001901	.020371
86		-.021272	.001896	.024892	.047698	.070295	.092667
88		.049882	.073221	.096320	.119160	.141724	.163993
90		.120555	.143869	.166873	.189545	.211870	.233827

ν	$Q_\nu(\cos \theta)$					
	2.10	2.12	2.14	2.16	2.18	2.20
θ						
90	.120555	.143870	.166873	.189546	.211870	.233828
92	.190272	.213359	.236060	.258355	.280227	.301657
94	.258565	.281214	.303399	.325100	.346300	.366981
96	.324972	.346966	.368416	.389302	.409607	.429314
98	.389042	.410160	.430651	.450498	.469683	.488189
100	.450334	.470352	.489660	.508241	.526079	.543158
102	.508424	.527116	.545014	.562103	.578368	.593795
104	.562901	.580040	.596303	.611676	.626145	.639699
106	.613371	.628734	.643140	.656575	.669031	.680497
108	.659461	.672828	.685157	.696441	.706671	.715841
110	.700819	.711973	.722015	.730939	.738740	.745415
112	.737114	.745848	.753398	.759764	.764943	.768937
114	.768038	.774152	.779018	.782637	.785014	.786152
116	.793310	.796614	.798613	.799312	.798719	.796845
118	.812671	.812990	.811953	.809572	.805859	.800830
120	.825892	.823062	.818836	.813230	.806265	.797960
122	.832767	.826641	.819089	.810135	.799802	.788120
124	.833118	.823566	.812571	.800162	.786370	.771231
126	.826792	.813704	.799168	.783219	.765899	.747247
128	.813664	.796949	.778796	.759247	.738352	.716159
130	.793633	.773222	.751398	.728213	.703723	.677985
132	.766619	.742467	.716944	.690112	.662034	.632776
134	.732566	.704652	.675429	.644965	.613334	.580610
136	.691436	.659766	.626866	.592816	.557697	.521591
138	.643208	.607813	.571289	.533726	.495213	.455844
140	.587871	.548812	.508746	.467774	.425995	.383510
142	.525421	.482786	.439292	.395047	.350160	.304742
144	.455854	.409763	.362984	.315634	.267833	.219700
146	.379155	.329759	.279872	.229621	.179133	.128538
148	.295292	.242774	.189989	.137074	.084165	.031397
150	.204196	.148774	.093337	.038032	-.016996	-.071607
152	.105745	.047671	-.010133	-.067516	-.124323	-.180406
154	-.000262	-.060698	-.120550	-.179656	-.237857	-.294998
156	-.114145	-.176613	-.238148	-.298580	-.357745	-.415482
158	-.236392	-.300520	-.363326	-.424638	-.484284	-.542101
160	-.367735	-.433100	-.496716	-.558404	-.617991	-.675312
162	-.509270	-.575395	-.639296	-.700792	-.759709	-.815881
164	-.662639	-.728978	-.792566	-.853221	-.910768	-.965045
166	-.830345	-.896267	-.958847	-1.017903	-1.073266	-1.124780
168	-1.016304	-1.081059	-1.141803	-1.198358	-1.250561	-1.298266
170	-1.226906	-1.289575	-1.347457	-1.400386	-1.448210	-1.490796
172	-1.473298	-1.532681	-1.586358	-1.634174	-1.675995	-1.711710
174	-1.777007	-1.831396	-1.878929	-1.919472	-1.952917	-1.979183
176	-2.187412	-2.233964	-2.272089	-2.301690	-2.322698	-2.335079
178	-2.864391	-2.896651	-2.917879	-2.928041	-2.927144	-2.915238
180	-∞	-∞	-∞	-∞	-∞	-∞

ν	2.20	2.22	$Q_\nu(\cos \theta)$ 2.24	2.26	2.28	2.30
θ						
0	∞	∞	∞	∞	∞	∞
2	2.464629	2.457230	2.449883	2.442588	2.435343	2.428147
4	1.754836	1.747235	1.739684	1.732183	1.724734	1.717332
6	1.327085	1.319230	1.311426	1.303671	1.295966	1.288310
8	1.013395	1.005268	.997191	.989165	.981188	.973259
10	.761921	.753527	.745183	.736890	.728648	.720454
12	.550073	.541435	.532849	.524315	.515833	.507400
14	.366154	.357311	.348523	.339789	.331110	.322483
16	.203442	.194448	.185513	.176636	.167816	.159053
18	.057804	.048726	.039710	.030758	.021867	.013039
20	-.073423	-.082510	-.091528	-.100477	-.109358	-.118171
22	-.192020	-.201030	-.209963	-.218820	-.227602	-.236309
24	-.299201	-.308040	-.316795	-.325465	-.334051	-.342554
26	-.395815	-.404385	-.412860	-.421242	-.429530	-.437725
28	-.482469	-.490666	-.498757	-.506744	-.514626	-.522405
30	-.559603	-.567319	-.574918	-.582401	-.589768	-.597020
32	-.627548	-.634675	-.641673	-.648542	-.655282	-.661895
34	-.686562	-.692991	-.699278	-.705423	-.711426	-.717288
36	-.736858	-.742482	-.747949	-.753261	-.758418	-.763421
38	-.778622	-.783335	-.787878	-.792252	-.796458	-.800496
40	-.812029	-.815731	-.819249	-.822585	-.825739	-.828712
42	-.837253	-.839848	-.842246	-.844449	-.846457	-.848272
44	-.854474	-.855874	-.857065	-.858048	-.858824	-.859396
46	-.863887	-.864012	-.863916	-.863601	-.863069	-.862321
48	-.865703	-.864482	-.863030	-.861349	-.859442	-.857311
50	-.860155	-.857527	-.854661	-.851558	-.848221	-.844653
52	-.847499	-.843416	-.839088	-.834519	-.829710	-.824666
54	-.828014	-.822440	-.816618	-.810551	-.804243	-.797697
56	-.802007	-.794919	-.787583	-.780002	-.772180	-.764123
58	-.769810	-.761199	-.752343	-.743246	-.733913	-.724349
60	-.731778	-.721652	-.711287	-.700688	-.689860	-.678811
62	-.688293	-.676674	-.664825	-.652754	-.640467	-.627969
64	-.639761	-.626686	-.613396	-.599899	-.586202	-.572312
66	-.586610	-.572133	-.557460	-.542600	-.527560	-.512350
68	-.529289	-.513479	-.497498	-.481353	-.465056	-.448613
70	-.468264	-.451208	-.434009	-.416676	-.399221	-.381652
72	-.404020	-.385820	-.367510	-.349101	-.330604	-.312031
74	-.337057	-.317830	-.298531	-.279173	-.259768	-.240328
76	-.267885	-.247764	-.227615	-.207450	-.187284	-.167129
78	-.197026	-.176158	-.155309	-.134495	-.113730	-.093026
80	-.125008	-.103553	-.082171	-.060878	-.039687	-.018614
82	-.052364	-.030495	-.008758	.012831	.034260	.055511
84	.020371	.042468	.064372	.086066	.107535	.128763
86	.092667	.114797	.136667	.158261	.179564	.200558
88	.163993	.185951	.207580	.228863	.249784	.270327
90	.233827	.255400	.276572	.297326	.317645	.337514

ν	$Q_\nu(\cos \theta)$					
	2.20	2.22	2.24	2.26	2.28	2.30
θ						
90	.233828	.255401	.276572	.297326	.317645	.337514
92	.301657	.322627	.343121	.363121	.382613	.401581
94	.366981	.387125	.406715	.425737	.444174	.462012
96	.429314	.448406	.466866	.484681	.501835	.518315
98	.488189	.506001	.523105	.539485	.555130	.570026
100	.543158	.559464	.574985	.589706	.603618	.616710
102	.593795	.608372	.622087	.634930	.646892	.657963
104	.639699	.652328	.664022	.674773	.684575	.693420
106	.680497	.690965	.700429	.708884	.716325	.722750
108	.715841	.723945	.730981	.736945	.741839	.745661
110	.745415	.750963	.755383	.758677	.760849	.761902
112	.768937	.771747	.773378	.773836	.773128	.771263
114	.786152	.786060	.784745	.782218	.778491	.773578
116	.796845	.793700	.789300	.783658	.776793	.768722
118	.800830	.794503	.786896	.778031	.767929	.756617
120	.797960	.788339	.777427	.765251	.751841	.737226
122	.788120	.775116	.760824	.745276	.728508	.710556
124	.771231	.754780	.737056	.718099	.697951	.676658
126	.747247	.727309	.706128	.683754	.660235	.635622
128	.716159	.692718	.668085	.642312	.615458	.587581
130	.677985	.651057	.623002	.593881	.563760	.532705
132	.632776	.602404	.570989	.538602	.505314	.471199
134	.580610	.546869	.512188	.476646	.440324	.403304
136	.521591	.484585	.446764	.408215	.369026	.329287
138	.455844	.415711	.374909	.333533	.291679	.249444
140	.383510	.340421	.296832	.252844	.208563	.164091
142	.304742	.258904	.212756	.166409	.119974	.073561
144	.219700	.171353	.122911	.074493	.026215	-.021804
146	.128538	.077961	.027528	-.022635	-.072405	-.121661
148	.031397	-.021093	-.073176	-.124719	-.175593	-.225672
150	-.071607	-.125656	-.179007	-.231523	-.283070	-.333519
152	-.180406	-.235616	-.289811	-.342849	-.394595	-.444917
154	-.294998	-.350926	-.405494	-.458558	-.509981	-.559630
156	-.415482	-.471635	-.526055	-.578597	-.629123	-.677501
158	-.542101	-.597932	-.651626	-.703038	-.752034	-.798483
160	-.675312	-.730208	-.782531	-.832138	-.878898	-.922687
162	-.815881	-.869152	-.919376	-.966418	-1.010152	-1.050463
164	-.965045	-1.015902	-1.063198	-1.106806	-1.146610	-1.182506
166	-1.124780	-1.172301	-1.215698	-1.254857	-1.289674	-1.320063
168	-1.298266	-1.341340	-1.379669	-1.413151	-1.441705	-1.465262
170	-1.490796	-1.528028	-1.559811	-1.586066	-1.606737	-1.621782
172	-1.711710	-1.741226	-1.764474	-1.781408	-1.792002	-1.796252
174	-1.979183	-1.998212	-2.009974	-2.014463	-2.011701	-2.001732
176	-2.335079	-2.338827	-2.333969	-2.320564	-2.298700	-2.268495
178	-2.915238	-2.892413	-2.858796	-2.814559	-2.759909	-2.695093
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$Q_\nu(\cos \theta)$				
ν	2.30	2.32	2.34	2.36	2.38	2.40
θ						
0	∞	∞	∞	∞	∞	∞
2	2.428147	2.421001	2.413903	2.406853	2.399849	2.392892
4	1.717332	1.709979	1.702674	1.695415	1.688203	1.681037
6	1.288310	1.280701	1.273139	1.265624	1.258155	1.250731
8	.973259	.965378	.957544	.949757	.942016	.934319
10	.720454	.712309	.704211	.696161	.688158	.680200
12	.507400	.499019	.490686	.482403	.474167	.465979
14	.322483	.313909	.305387	.296917	.288497	.280128
16	.159053	.150346	.141695	.133100	.124558	.116071
18	.013039	.004271	-.004435	-.013082	-.021670	-.030198
20	-.118171	-.126917	-.135596	-.144209	-.152757	-.161239
22	-.236309	-.244942	-.253501	-.261985	-.270397	-.278736
24	-.342554	-.350974	-.359311	-.367566	-.375740	-.383831
26	-.437725	-.445827	-.453837	-.461755	-.469581	-.477316
28	-.522405	-.530080	-.537652	-.545121	-.552488	-.559753
30	-.597020	-.604157	-.611178	-.618085	-.624878	-.631558
32	-.661895	-.668380	-.674738	-.680969	-.687073	-.693052
34	-.717288	-.723010	-.728592	-.734034	-.739337	-.744501
36	-.763421	-.768270	-.772966	-.777509	-.781900	-.786139
38	-.800496	-.804367	-.808072	-.811611	-.814984	-.818194
40	-.828712	-.831505	-.834118	-.836554	-.838812	-.840893
42	-.848272	-.849894	-.851325	-.852566	-.853617	-.854480
44	-.859396	-.859763	-.859928	-.859891	-.859655	-.859220
46	-.862321	-.861359	-.860185	-.858800	-.857206	-.855405
48	-.857311	-.854956	-.852382	-.849589	-.846580	-.843356
50	-.844653	-.840856	-.836833	-.832585	-.828117	-.823430
52	-.824666	-.819389	-.813883	-.808149	-.802192	-.796015
54	-.797697	-.790918	-.783908	-.776671	-.769212	-.761534
56	-.764123	-.755833	-.747316	-.738576	-.729617	-.720444
58	-.724349	-.714558	-.704547	-.694319	-.683880	-.673235
60	-.678811	-.667544	-.656067	-.644384	-.632503	-.620428
62	-.627969	-.615269	-.602373	-.589286	-.576017	-.562571
64	-.572312	-.558238	-.543986	-.529563	-.514979	-.500239
66	-.512350	-.496977	-.481451	-.465779	-.449970	-.434032
68	-.448613	-.432037	-.415334	-.398515	-.381590	-.364566
70	-.381652	-.363981	-.346218	-.328372	-.310455	-.292476
72	-.312031	-.293393	-.274700	-.255965	-.237197	-.218409
74	-.240328	-.220864	-.201390	-.181916	-.162456	-.143019
76	-.167129	-.146997	-.126903	-.106858	-.086875	-.066967
78	-.093026	-.072397	-.051859	-.031422	-.011102	.009088
80	-.018614	.002326	.023121	.043757	.064218	.084492
82	.055511	.076570	.097423	.118054	.138449	.158596
84	.128763	.149735	.170435	.190850	.210965	.230765
86	.200558	.221229	.241561	.261540	.281151	.300380
88	.270327	.290477	.310218	.329536	.348416	.366845
90	.337514	.356917	.375840	.394268	.412188	.429586

	$Q_\nu(\cos \theta)$					
ν	2.30	2.32	2.34	2.36	2.38	2.40
θ						
90	.337514	.356917	.375840	.394269	.412188	.429587
92	.401581	.420010	.437885	.455194	.471923	.488059
94	.462012	.479237	.495836	.511795	.527104	.541750
96	.518315	.534109	.549203	.563587	.577250	.590183
98	.570026	.584163	.597530	.610117	.621916	.632919
100	.616710	.628971	.640394	.650971	.660695	.669560
102	.657963	.668138	.677408	.685771	.693220	.699754
104	.693420	.701306	.708228	.714183	.719172	.723194
106	.722750	.728157	.732546	.735918	.738276	.739622
108	.745661	.748414	.750102	.750730	.750302	.748828
110	.761902	.761843	.760679	.758420	.755075	.750656
112	.771263	.768251	.764105	.758838	.752464	.745001
114	.773578	.767493	.760255	.751882	.742393	.731811
116	.768722	.759468	.749053	.737500	.724834	.711084
118	.756617	.744120	.730467	.715688	.699813	.682876
120	.737226	.721440	.704516	.686491	.667403	.647289
122	.710556	.691461	.671263	.650004	.627728	.604480
124	.676658	.654264	.630816	.606365	.580960	.554654
126	.635622	.609969	.583330	.555761	.527319	.498063
128	.587581	.558741	.529000	.498421	.467067	.435004
130	.532705	.500783	.468063	.434615	.400510	.365820
132	.471199	.436333	.400792	.364652	.327991	.290888
134	.403304	.365666	.327496	.288876	.249891	.210625
136	.329287	.289087	.248515	.207664	.166622	.125481
138	.249444	.206924	.164216	.121418	.078623	.035930
140	.164091	.119532	.074989	.030564	-.013640	-.057526
142	.073561	.027280	-.018760	-.064452	-.109691	-.154372
144	-.021804	-.069452	-.116613	-.163178	-.209035	-.254078
146	-.121661	-.170282	-.218151	-.265152	-.311174	-.356108
148	-.225672	-.274833	-.322954	-.369919	-.415613	-.459929
150	-.333519	-.382744	-.430623	-.477036	-.521871	-.565018
152	-.444917	-.493687	-.540782	-.586086	-.629485	-.670875
154	-.559630	-.607378	-.653103	-.696692	-.738034	-.777029
156	-.677501	-.723607	-.767322	-.808537	-.847148	-.883061
158	-.798483	-.842265	-.883269	-.921391	-.956536	-.988619
160	-.922687	-.963393	-1.000911	-1.035147	-1.066018	-1.093451
162	-1.050463	-1.087247	-1.120411	-1.149876	-1.175572	-1.197441
164	-1.182506	-1.214406	-1.242230	-1.265915	-1.285410	-1.300677
166	-1.320063	-1.345950	-1.367278	-1.384005	-1.396101	-1.403554
168	-1.465262	-1.483774	-1.497206	-1.505543	-1.508786	-1.506952
170	-1.621782	-1.631183	-1.634936	-1.633061	-1.625594	-1.612591
172	-1.796252	-1.794179	-1.785820	-1.771240	-1.750519	-1.723762
174	-2.001732	-1.984629	-1.960489	-1.929430	-1.891599	-1.847163
176	-2.268495	-2.230099	-2.183688	-2.129469	-2.067675	-1.998565
178	-2.695093	-2.620394	-2.536130	-2.442655	-2.340356	-2.229649
180	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$

		$Q_\nu(\cos \theta)$					
ν		2.40	2.42	2.44	2.46	2.48	2.50
θ							
0	∞	∞	∞	∞	∞	∞	∞
2	2.392892	2.385981	2.379116	2.372294	2.365517	2.358783	
4	1.681037	1.673915	1.666839	1.659806	1.652816	1.645870	
6	1.250731	1.243352	1.236017	1.228725	1.221476	1.214270	
8	.934319	.926668	.919061	.911497	.903977	.896499	
10	.680200	.672288	.664421	.656598	.648820	.641084	
12	.465979	.457839	.449745	.441697	.433695	.425738	
14	.280128	.271809	.263539	.255318	.247145	.239020	
16	.116071	.107638	.099258	.090930	.082655	.074432	
18	-.030198	-.038668	-.047079	-.055433	-.063729	-.071968	
20	-.161239	-.169656	-.178008	-.186296	-.194521	-.202682	
22	-.278736	-.287003	-.295197	-.303319	-.311371	-.319351	
24	-.383831	-.391842	-.399772	-.407621	-.415390	-.423079	
26	-.477316	-.484960	-.492513	-.499976	-.507349	-.514632	
28	-.559753	-.566916	-.573977	-.580938	-.587797	-.594556	
30	-.631558	-.638124	-.644577	-.650917	-.657145	-.663260	
32	-.693052	-.698905	-.704633	-.710235	-.715713	-.721067	
34	-.744501	-.749526	-.754414	-.759165	-.763778	-.768255	
36	-.786139	-.790228	-.794165	-.797953	-.801591	-.805080	
38	-.818194	-.821239	-.824122	-.826842	-.829401	-.831798	
40	-.840893	-.842798	-.844528	-.846084	-.847467	-.848678	
42	-.854480	-.855156	-.855645	-.855951	-.856072	-.856011	
44	-.859220	-.858588	-.857760	-.856738	-.855523	-.854117	
46	-.855405	-.853398	-.851187	-.848774	-.846161	-.843350	
48	-.843356	-.839921	-.836276	-.832423	-.828365	-.824104	
50	-.823430	-.818527	-.813410	-.808083	-.802549	-.796808	
52	-.796015	-.789620	-.783011	-.776192	-.769165	-.761934	
54	-.761534	-.753640	-.745535	-.737222	-.728705	-.719989	
56	-.720444	-.711061	-.701472	-.691683	-.681697	-.671519	
58	-.673235	-.662390	-.651349	-.640118	-.628702	-.617106	
60	-.620428	-.608166	-.595722	-.583103	-.570315	-.557364	
62	-.562571	-.548955	-.535177	-.521243	-.507160	-.492935	
64	-.500239	-.485353	-.470327	-.455169	-.439886	-.424487	
66	-.434032	-.417974	-.401804	-.385532	-.369164	-.352711	
68	-.364566	-.347455	-.330264	-.313004	-.295684	-.278313	
70	-.292476	-.274446	-.256374	-.238271	-.220147	-.202012	
72	-.218409	-.199611	-.180814	-.162029	-.143266	-.124537	
74	-.143019	-.123620	-.104268	-.084976	-.065755	-.046616	
76	-.066967	-.047146	-.027424	-.007814	.011671	.031022	
78	.009088	.029137	.049031	.068758	.088304	.107658	
80	.084492	.104565	.124423	.144055	.163446	.182585	
82	.158596	.178479	.198085	.217401	.236415	.255113	
84	.230765	.250236	.269366	.288141	.306548	.324575	
86	.300380	.319214	.337638	.355640	.373208	.390330	
88	.366845	.384810	.402297	.419294	.435789	.451771	
90	.429586	.446450	.462768	.478527	.493717	.508327	

		$Q_v(\cos \theta)$					
ν		2.40	2.42	2.44	2.46	2.48	2.50
θ							
90		.429587	.446451	.462768	.478527	.493717	.508328
92		.488059	.503592	.518509	.532801	.546457	.559468
94		.541750	.555724	.569015	.581615	.593514	.604706
96		.590183	.602376	.613822	.624512	.634442	.643604
98		.632919	.643118	.652508	.661084	.668840	.675775
100		.669560	.677563	.684699	.690966	.696362	.700887
102		.699754	.705371	.710070	.713850	.716714	.718663
104		.723194	.726251	.728344	.729478	.729657	.728887
106		.739622	.739962	.739302	.737649	.735012	.731400
108		.748828	.746316	.742776	.738218	.732657	.726106
110		.750656	.745178	.738654	.731100	.722533	.712972
112		.745001	.736467	.726881	.716264	.704637	.692025
114		.731811	.720158	.707459	.693741	.679030	.663355
116		.711084	.696278	.680446	.663618	.645829	.627112
118		.682876	.664911	.645953	.626041	.605213	.583508
120		.647289	.626191	.604150	.581211	.557416	.532811
122		.604480	.580308	.555258	.529381	.502727	.475347
124		.554654	.527499	.499550	.470861	.441491	.411495
126		.498063	.468051	.437346	.406008	.374100	.341684
128		.435004	.402299	.369017	.335226	.300995	.266392
130		.365820	.330616	.294973	.258963	.222661	.186140
132		.290888	.253420	.215667	.177709	.139622	.101488
134		.210625	.171163	.131589	.091986	.052440	.013033
136		.125481	.084329	.043258	.002354	-.038292	-.078597
138		.035930	-.006567	-.048776	-.090604	-.131958	-.172749
140		-.057526	-.100993	-.143943	-.186282	-.227914	-.268749
142		-.154372	-.198393	-.241653	-.284055	-.325503	-.365905
144		-.254078	-.298202	-.341304	-.383287	-.424055	-.463515
146		-.356108	-.399847	-.442289	-.483337	-.522895	-.560874
148		-.459929	-.502758	-.544002	-.583562	-.621348	-.657272
150		-.565018	-.606375	-.645843	-.683328	-.718744	-.752008
152		-.670875	-.710155	-.747230	-.782015	-.814427	-.844392
154		-.777029	-.813583	-.847607	-.879024	-.907758	-.933748
156		-.883061	-.916189	-.946455	-.973788	-.998128	-1.019422
158		-.988619	-1.017565	-1.043306	-1.065786	-1.084959	-1.100786
160		-1.093451	-1.117383	-1.137764	-1.154552	-1.167718	-1.177243
162		-1.197441	-1.215438	-1.229531	-1.239698	-1.245930	-1.248231
164		-1.300677	-1.311693	-1.318446	-1.320940	-1.319190	-1.313227
166		-1.403554	-1.406365	-1.404552	-1.398146	-1.387193	-1.371754
168		-1.506952	-1.500075	-1.488205	-1.471408	-1.449767	-1.423381
170		-1.612591	-1.594124	-1.570287	-1.541187	-1.506953	-1.467726
172		-1.723762	-1.691094	-1.652658	-1.608616	-1.559152	-1.504464
174		-1.847163	-1.796313	-1.739261	-1.676240	-1.607502	-1.533323
176		-1.998565	-1.922425	-1.839564	-1.750315	-1.655032	-1.554090
178		-2.229649	-2.110983	-1.984832	-1.851699	-1.712109	-1.566612
180		$-\infty$	$-\infty$	$-\infty$	$-\infty$	$-\infty$	-1.570796

ν	$Q_\nu(\cos \theta)$					
θ	2.50	2.52	2.54	2.56	2.58	2.60
0	∞	∞	∞	∞	∞	∞
2	2.358783	2.352092	2.345443	2.338836	2.332270	2.325744
4	1.645870	1.638965	1.632102	1.625280	1.618499	1.611759
6	1.214270	1.207105	1.199982	1.192899	1.185857	1.178854
8	.896499	.889063	.881668	.874314	.867001	.859727
10	.641085	.633392	.625741	.618133	.610566	.603039
12	.425739	.417826	.409957	.402132	.394351	.386612
14	.239020	.230943	.222912	.214928	.206990	.199098
16	.074432	.066260	.058139	.050068	.042048	.034078
18	-.071968	-.080150	-.088276	-.096347	-.104362	-.112322
20	-.202682	-.210779	-.218815	-.226788	-.234699	-.242549
22	-.319351	-.327260	-.335099	-.342868	-.350567	-.358197
24	-.423078	-.430688	-.438219	-.445670	-.453043	-.460338
26	-.514632	-.521826	-.528930	-.535946	-.542873	-.549712
28	-.594556	-.601215	-.607774	-.614233	-.620593	-.626854
30	-.663260	-.669264	-.675156	-.680937	-.686608	-.692168
32	-.721067	-.726297	-.731404	-.736387	-.741248	-.745987
34	-.768254	-.772595	-.776800	-.780870	-.784805	-.788606
36	-.805079	-.808420	-.811613	-.814659	-.817558	-.820311
38	-.831798	-.834035	-.836113	-.838032	-.839793	-.841397
40	-.848678	-.849717	-.850586	-.851286	-.851817	-.852180
42	-.856010	-.855768	-.855345	-.854743	-.853964	-.853009
44	-.854116	-.852520	-.850735	-.848765	-.846608	-.844268
46	-.843350	-.840342	-.837140	-.833745	-.830160	-.826386
48	-.824104	-.819642	-.814982	-.810126	-.805076	-.799835
50	-.796808	-.790866	-.784724	-.778385	-.771853	-.765130
52	-.761933	-.754502	-.746872	-.739049	-.731035	-.722834
54	-.719988	-.711076	-.701972	-.692680	-.683204	-.673549
56	-.671519	-.661154	-.650607	-.639882	-.628984	-.617918
58	-.617106	-.605336	-.593397	-.581295	-.569035	-.556622
60	-.557364	-.544255	-.530996	-.517592	-.504049	-.490374
62	-.492934	-.478574	-.464084	-.449474	-.434748	-.419915
64	-.424487	-.408979	-.393369	-.377666	-.361878	-.346011
66	-.352710	-.336179	-.319578	-.302917	-.286203	-.269445
68	-.278312	-.260899	-.243453	-.225984	-.208501	-.191013
70	-.202012	-.183876	-.165748	-.147639	-.129559	-.111517
72	-.124537	-.105852	-.087221	-.068656	-.050167	-.031763
74	-.046616	-.027571	-.008631	.010193	.028890	.047450
76	.031022	.050225	.069270	.088144	.106837	.125337
78	.107659	.126808	.145741	.164446	.182912	.201126
80	.182586	.201460	.220058	.238366	.256375	.274072
82	.255114	.273485	.291516	.309196	.326513	.343456
84	.324575	.342210	.359440	.376255	.392644	.408596
86	.390330	.406994	.423188	.438902	.454125	.468849
88	.451771	.467229	.482153	.496531	.510356	.523618
90	.508327	.522348	.535770	.548584	.560782	.572357

		$Q_\nu(\cos \theta)$					
ν		2.50	2.52	2.54	2.56	2.58	2.60
θ							
90	.508328	.522348	.535770	.548584	.560783	.572358	
92	.559468	.571825	.583522	.594550	.604902	.614574	
94	.604706	.615183	.624939	.633969	.642269	.649833	
96	.643604	.651994	.659608	.666442	.672495	.677764	
98	.675775	.681885	.687169	.691625	.695255	.698060	
100	.700887	.704540	.707323	.709239	.710290	.710480	
102	.718663	.719702	.719835	.719067	.717404	.714855	
104	.728887	.727175	.724529	.720959	.716474	.711086	
106	.731400	.726824	.721297	.714832	.707442	.699144	
108	.726106	.718581	.710096	.700671	.690324	.679074	
110	.712972	.702437	.690949	.678530	.665203	.650993	
112	.692025	.678452	.663943	.648527	.632231	.615085	
114	.663355	.646746	.629234	.610851	.591631	.571608	
116	.627112	.607502	.587037	.565752	.543688	.520884	
118	.583508	.560967	.537632	.513547	.488755	.463301	
120	.532811	.507444	.481361	.454611	.427244	.399310	
122	.475347	.447294	.418620	.389379	.359627	.329418	
124	.411495	.380932	.349860	.318339	.286429	.254188	
126	.341684	.308825	.275586	.242031	.208226	.174234	
128	.266392	.231486	.196347	.161042	.125642	.090215	
130	.186139	.149473	.112736	.076001	.039341	.002828	
132	.101487	.063383	.025386	-.012425	-.049975	-.087189	
134	.013033	-.026152	-.065036	-.103536	-.141574	-.179073	
136	-.078597	-.118473	-.157836	-.196604	-.234696	-.272033	
138	-.172750	-.212890	-.252295	-.290878	-.328559	-.365260	
140	-.268749	-.308697	-.347672	-.385589	-.422367	-.457928	
142	-.365905	-.405172	-.443216	-.479955	-.515311	-.549205	
144	-.463516	-.501581	-.538165	-.573189	-.606576	-.638254	
146	-.560874	-.597187	-.631753	-.664497	-.695346	-.724235	
148	-.657272	-.691253	-.723215	-.753088	-.780806	-.806312	
150	-.752009	-.783047	-.811790	-.838175	-.862146	-.883654	
152	-.844393	-.871845	-.896725	-.918978	-.938561	-.955434	
154	-.933749	-.956937	-.977276	-.994724	-1.009250	-1.020830	
156	-1.019423	-1.037628	-1.052711	-1.064645	-1.073416	-1.079014	
158	-1.100787	-1.113242	-1.122308	-1.127978	-1.130253	-1.129148	
160	-1.177243	-1.183119	-1.185349	-1.183947	-1.178938	-1.170357	
162	-1.248231	-1.246615	-1.241110	-1.231753	-1.218597	-1.201703	
164	-1.313228	-1.303092	-1.288841	-1.270540	-1.248272	-1.222128	
166	-1.371754	-1.351904	-1.327731	-1.299336	-1.266836	-1.230357	
168	-1.423381	-1.392362	-1.356837	-1.316950	-1.272856	-1.224724	
170	-1.467727	-1.423668	-1.374952	-1.321769	-1.264322	-1.202830	
172	-1.504464	-1.444770	-1.380302	-1.311309	-1.238053	-1.160813	
174	-1.533323	-1.453991	-1.369815	-1.281117	-1.188236	-1.091523	
176	-1.554090	-1.447883	-1.336823	-1.221336	-1.101864	-.978862	
178	-1.566612	-1.415774	-1.260182	-1.100438	-.937157	-.770965	
180	-1.570796	∞	∞	∞	∞	∞	

		$Q_\nu(\cos \theta)$				
ν	2.60	2.62	2.64	2.66	2.68	2.70
θ						
0	∞	∞	∞	∞	∞	∞
2	2.325744	2.319260	2.312815	2.306407	2.300040	2.293711
4	1.611759	1.605057	1.598394	1.591769	1.585184	1.578636
6	1.178854	1.171890	1.164966	1.158078	1.151230	1.144418
8	.859727	.852493	.845297	.838140	.831021	.823940
10	.603039	.595553	.588107	.580699	.573332	.566003
12	.386612	.378915	.371260	.363646	.356074	.348542
14	.199098	.191251	.183448	.175690	.167976	.160306
16	.034078	.026156	.018284	.010461	.002685	-.005041
18	-.112322	-.120227	-.128078	-.135875	-.143618	-.151308
20	-.242549	-.250337	-.258064	-.265730	-.273336	-.280881
22	-.358197	-.365758	-.373250	-.380673	-.388028	-.395315
24	-.460338	-.467554	-.474693	-.481754	-.488738	-.495645
26	-.549712	-.556463	-.563127	-.569703	-.576191	-.582593
28	-.626854	-.633016	-.639080	-.645045	-.650912	-.656682
30	-.692168	-.697618	-.702958	-.708188	-.713309	-.718321
32	-.745987	-.750604	-.755098	-.759472	-.763725	-.767858
34	-.788606	-.792273	-.795807	-.799207	-.802476	-.805612
36	-.820311	-.822919	-.825382	-.827700	-.829875	-.831907
38	-.841397	-.842845	-.844137	-.845273	-.846256	-.847086
40	-.852180	-.852377	-.852409	-.852276	-.851980	-.851521
42	-.853009	-.851878	-.850573	-.849096	-.847447	-.845628
44	-.844268	-.841746	-.839043	-.836162	-.833103	-.829869
46	-.826386	-.822425	-.818279	-.813951	-.809442	-.804755
48	-.799835	-.794405	-.788788	-.782988	-.777007	-.770846
50	-.765130	-.758220	-.751124	-.743846	-.736389	-.728757
52	-.722834	-.714449	-.705885	-.697144	-.688230	-.679147
54	-.673549	-.663718	-.653716	-.643546	-.633213	-.622722
56	-.617918	-.606689	-.595300	-.583758	-.572067	-.560232
58	-.556622	-.544062	-.531360	-.518523	-.505555	-.492461
60	-.490374	-.476573	-.462651	-.448616	-.434473	-.420229
62	-.419915	-.404981	-.389954	-.374839	-.359645	-.344377
64	-.346011	-.330073	-.314073	-.298017	-.281914	-.265771
66	-.269445	-.252651	-.235830	-.218990	-.202140	-.185287
68	-.191013	-.173528	-.156056	-.138607	-.121188	-.103809
70	-.111517	-.093523	-.075587	-.057717	-.039925	-.022218
72	-.031763	-.013456	.004744	.022829	.040788	.058610
74	.047450	.065861	.084115	.102198	.120103	.137819
76	.125337	.143633	.161715	.179572	.197194	.214570
78	.201126	.219079	.236759	.254156	.271258	.288058
80	.274072	.291447	.308488	.325186	.341530	.357511
82	.343456	.360015	.376179	.391938	.407283	.422203
84	.408596	.424100	.439148	.453729	.467835	.481456
86	.468849	.483062	.496757	.509925	.522557	.534647
88	.523618	.536309	.548421	.559947	.570880	.581214
90	.572357	.583302	.593610	.603275	.612293	.620659

	$Q_\nu(\cos \theta)$					
ν	2.60	2.62	2.64	2.66	2.68	2.70
θ						
90	.572358	.583302	.593610	.603275	.612293	.620659
92	.614574	.623559	.631853	.639453	.646354	.652555
94	.649833	.656660	.662746	.668090	.672691	.676548
96	.677764	.682249	.685951	.688868	.691004	.692361
98	.698060	.700040	.701200	.701543	.701073	.699796
100	.710480	.709815	.708301	.705944	.702753	.698735
102	.714855	.711428	.707132	.701979	.695978	.689143
104	.711086	.704807	.697651	.689632	.680765	.671067
106	.699144	.689954	.679888	.668967	.657209	.644634
108	.679074	.666943	.653952	.640125	.625484	.610056
110	.650993	.635925	.620025	.603323	.585845	.567621
112	.615085	.597119	.578364	.558852	.538618	.517695
114	.571608	.550817	.529295	.507079	.484207	.460718
116	.520884	.497379	.473216	.448437	.423084	.397201
118	.463301	.437230	.410590	.383426	.355787	.327720
120	.399310	.370858	.341941	.312610	.282917	.252914
122	.329418	.298808	.267852	.236608	.205130	.173477
124	.254188	.221679	.188960	.156093	.123137	.090154
126	.174234	.140121	.105951	.071787	.037694	.003735
128	.090215	.054829	.019552	-.015546	-.050402	-.084949
130	.002828	-.033464	-.069467	-.105110	-.140323	-.175040
132	-.087189	-.123991	-.160309	-.196072	-.231208	-.265650
134	-.179073	-.215956	-.252149	-.287579	-.322176	-.355871
136	-.272033	-.308538	-.344137	-.378757	-.412328	-.444785
138	-.365260	-.400902	-.435413	-.468721	-.500759	-.531463
140	-.457928	-.492197	-.525103	-.556577	-.586555	-.614977
142	-.549205	-.581568	-.612330	-.641429	-.668804	-.694401
144	-.638254	-.668155	-.696218	-.722384	-.746600	-.768817
146	-.724235	-.751101	-.775890	-.798551	-.819039	-.837316
148	-.806312	-.829551	-.850477	-.869049	-.885232	-.899000
150	-.883654	-.902655	-.919114	-.933001	-.944295	-.952980
152	-.955434	-.969569	-.980941	-.989536	-.995347	-.998373
154	-1.020830	-1.029449	-1.035099	-1.037782	-1.037506	-1.034290
156	-1.079014	-1.081444	-1.080716	-1.076849	-1.069872	-1.059823
158	-1.129148	-1.124683	-1.116892	-1.105815	-1.091505	-1.074019
160	-1.170357	-1.158249	-1.142673	-1.123693	-1.101386	-1.075837
162	-1.201703	-1.181143	-1.157002	-1.129373	-1.098362	-1.064083
164	-1.222128	-1.192212	-1.158640	-1.121537	-1.081041	-1.037299
166	-1.230357	-1.190040	-1.146036	-1.098507	-1.047627	-.993580
168	-1.224724	-1.172734	-1.117081	-1.057968	-.995611	-.930234
170	-1.202830	-1.137522	-1.068641	-.996440	-.921180	-.843136
172	-1.160813	-1.079875	-.995543	-.908125	-.817943	-.725325
174	-1.091523	-.991341	-.888065	-.782078	-.673772	-.563545
176	-.978862	-.852795	-.724139	-.593374	-.460990	-.327477
178	-.770965	-.602496	-.432392	-.261299	-.089862	.081273
180	∞	∞	∞	∞	∞	∞

	$Q_1 / \cos \theta$					
ν	2.70	2.72	2.74	2.76	2.78	2.80
θ						
0	∞	∞	∞	∞	∞	∞
2	2.293711	2.287419	2.281164	2.274947	2.268766	2.262620
4	1.578636	1.572124	1.565649	1.559211	1.552808	1.546441
6	1.144418	1.137643	1.130905	1.124202	1.117536	1.110903
8	.823940	.816895	.809888	.802916	.795981	.789080
10	.566003	.558711	.551458	.544242	.537063	.529920
12	.348542	.341050	.333598	.326185	.318811	.311476
14	.160306	.152679	.145094	.137553	.130054	.122596
16	-.005041	-.012721	-.020354	-.027940	-.035479	-.042972
18	-.151308	-.158944	-.166528	-.174060	-.181539	-.188966
20	-.280881	-.288368	-.295794	-.303161	-.310470	-.317719
22	-.395315	-.402534	-.409686	-.416771	-.423788	-.430739
24	-.495645	-.502475	-.509229	-.515906	-.522507	-.529033
26	-.582593	-.588908	-.595136	-.601278	-.607334	-.613305
28	-.656682	-.662354	-.667929	-.673407	-.678789	-.684074
30	-.718321	-.723225	-.728020	-.732707	-.737287	-.741759
32	-.767858	-.771870	-.775763	-.779536	-.783190	-.786726
34	-.805612	-.808617	-.811491	-.814234	-.816848	-.819332
36	-.831907	-.833797	-.835545	-.837151	-.838618	-.839944
38	-.847086	-.847763	-.848288	-.848662	-.848887	-.848962
40	-.851521	-.850901	-.850120	-.849180	-.848082	-.846828
42	-.845628	-.843641	-.841486	-.839166	-.836681	-.834033
44	-.829869	-.826461	-.822881	-.819131	-.815212	-.811127
46	-.804755	-.799891	-.794852	-.789641	-.784261	-.778713
48	-.770846	-.764510	-.758000	-.751318	-.744468	-.737453
50	-.728757	-.720952	-.712977	-.704835	-.696530	-.688065
52	-.679147	-.669898	-.660487	-.650918	-.641194	-.631320
54	-.622722	-.612076	-.601280	-.590338	-.579254	-.568033
56	-.560232	-.548258	-.536149	-.523911	-.511548	-.499066
58	-.492461	-.479249	-.465922	-.452488	-.438950	-.425316
60	-.420229	-.405889	-.391461	-.376951	-.362364	-.347707
62	-.344377	-.329044	-.313651	-.298206	-.282716	-.267188
64	-.265771	-.249596	-.233395	-.217178	-.200951	-.184721
66	-.185287	-.168440	-.151607	-.134797	-.118016	-.101274
68	-.103809	-.086478	-.069204	-.051997	-.034864	-.017813
70	-.022218	-.004606	.012901	.030295	.047567	.064707
72	.058610	.076288	.093810	.111168	.128352	.145353
74	.137819	.155335	.172643	.189732	.206593	.223218
76	.214570	.231691	.248547	.265128	.281425	.297429
78	.288058	.304543	.320705	.336535	.352023	.367161
80	.357511	.373119	.388344	.403178	.417613	.431639
82	.422203	.436691	.450738	.464334	.477474	.490148
84	.481456	.494586	.507216	.519339	.530948	.542036
86	.534647	.546187	.557171	.567593	.577446	.586727
88	.581214	.590943	.600062	.608566	.616453	.623717
90	.620659	.628368	.635418	.641806	.647530	.652589

ν	$Q_\nu(\cos \theta)$					
θ	2.70	2.72	2.74	2.76	2.78	2.80
90	.620659	.628368	.635419	.641807	.647530	.652589
92	.652555	.658053	.662848	.666938	.670324	.673007
94	.676548	.679663	.682035	.683668	.684565	.684727
96	.692361	.692942	.692751	.691792	.690072	.687596
98	.699796	.697718	.694847	.691189	.686755	.681552
100	.698735	.693902	.688263	.681829	.674614	.666629
102	.689143	.681488	.673025	.663771	.653741	.642952
104	.671067	.660554	.649246	.637160	.624318	.610739
106	.644634	.631265	.617123	.602232	.586616	.570299
108	.610056	.593865	.576939	.559305	.540992	.522027
110	.567621	.548682	.529058	.508782	.487887	.466404
112	.517695	.496117	.473922	.451144	.427820	.403990
114	.460718	.436651	.412047	.386946	.361389	.335418
116	.397201	.370832	.344022	.316815	.289257	.261394
118	.327720	.299275	.270499	.241442	.212154	.182682
120	.252914	.222655	.192192	.161578	.130865	.100107
122	.173477	.141704	.109868	.078025	.046231	.014541
124	.090154	.057202	.024342	-.008367	-.040868	-.073103
126	.003735	-.030026	-.063529	-.096712	-.129515	-.161879
128	-.084949	-.119122	-.152856	-.186090	-.218762	-.250812
130	-.175040	-.209194	-.242721	-.275556	-.307640	-.338911
132	-.265650	-.299330	-.332185	-.364150	-.395166	-.425174
134	-.355871	-.388599	-.420296	-.450899	-.480352	-.508598
136	-.444785	-.476060	-.506095	-.534830	-.562209	-.588181
138	-.531463	-.560770	-.588624	-.614969	-.639756	-.662936
140	-.614977	-.641785	-.666927	-.690354	-.712022	-.731890
142	-.694401	-.718168	-.740060	-.760035	-.778056	-.794092
144	-.768817	-.788994	-.807092	-.823079	-.836927	-.848616
146	-.837316	-.853348	-.867107	-.878572	-.887726	-.894560
148	-.899000	-.910329	-.919205	-.925617	-.929564	-.931049
150	-.952980	-.959048	-.962498	-.963335	-.961571	-.957226
152	-.998373	-.998621	-.996106	-.990852	-.982886	-.972247
154	-1.034290	-1.028158	-1.019144	-1.007290	-.992644	-.975263
156	-1.059823	-1.046748	-1.030701	-1.011745	-.989950	-.965395
158	-1.074019	-1.053429	-1.029812	-1.003253	-.973848	-.941698
160	-1.075837	-1.047142	-1.015404	-.980736	-.943259	-.903100
162	-1.064083	-1.026660	-.986225	-.942920	-.896896	-.848309
164	-1.037299	-.990466	-.940708	-.888199	-.833119	-.775658
166	-.993580	-.936557	-.876759	-.814396	-.749685	-.682848
168	-.930234	-.862070	-.791361	-.718356	-.643310	-.566483
170	-.843136	-.762586	-.679819	-.595128	-.508811	-.421173
172	-.725325	-.630606	-.534128	-.436236	-.337279	-.237609
174	-.563545	-.451800	-.338944	-.225386	-.111535	.002197
176	-.327477	-.193330	-.059044	.074888	.207978	.339740
178	.081273	.251464	.420075	.586477	.750054	.910197
180	∞	∞	∞	∞	∞	∞

		$Q_\nu(\cos \theta)$				
ν	2.80	2.82	2.84	2.86	2.88	2.90
θ						
0	∞	∞	∞	∞	∞	∞
2	2.262620	2.256511	2.250436	2.244395	2.238390	2.232418
4	1.546441	1.540108	1.533811	1.527547	1.521317	1.515121
6	1.110903	1.104306	1.097743	1.091214	1.084718	1.078255
8	.789080	.782215	.775385	.768588	.761825	.755096
10	.529920	.522813	.515743	.508707	.501707	.494741
12	.311476	.304179	.296920	.289698	.282514	.275367
14	.122596	.115180	.107805	.100471	.093178	.085925
16	-.042972	-.050419	-.057820	-.065176	-.072487	-.079753
18	-.188966	-.196342	-.203666	-.210940	-.218162	-.225334
20	-.317719	-.324910	-.332043	-.339118	-.346135	-.353094
22	-.430739	-.437623	-.444441	-.451193	-.457879	-.464500
24	-.529033	-.535483	-.541857	-.548157	-.554381	-.560531
26	-.613305	-.619189	-.624989	-.630704	-.636333	-.641878
28	-.684074	-.689263	-.694356	-.699354	-.704256	-.709063
30	-.741759	-.746124	-.750381	-.754533	-.758578	-.762518
32	-.786726	-.790144	-.793443	-.796626	-.799691	-.802640
34	-.819332	-.821687	-.823913	-.826012	-.827983	-.829827
36	-.839944	-.841131	-.842180	-.843091	-.843865	-.844502
38	-.848962	-.848889	-.848669	-.848302	-.847790	-.847133
40	-.846828	-.845417	-.843851	-.842132	-.840261	-.838238
42	-.834033	-.831224	-.828254	-.825125	-.821840	-.818398
44	-.811127	-.806876	-.802462	-.797887	-.793152	-.788259
46	-.778713	-.772998	-.767121	-.761082	-.754884	-.748530
48	-.737453	-.730274	-.722935	-.715438	-.707786	-.699982
50	-.688065	-.679443	-.670667	-.661741	-.652667	-.643449
52	-.631320	-.621298	-.611133	-.600829	-.590388	-.579816
54	-.568033	-.556679	-.545197	-.533590	-.521863	-.510021
56	-.499066	-.486470	-.473764	-.460954	-.448044	-.435040
58	-.425316	-.411590	-.397778	-.383886	-.369919	-.355884
60	-.347707	-.332986	-.318208	-.303378	-.288503	-.273590
62	-.267188	-.251628	-.236043	-.220440	-.204827	-.189209
64	-.184721	-.168497	-.152285	-.136093	-.119929	-.103799
66	-.101274	-.084578	-.067936	-.051357	-.034847	-.018414
68	-.017813	-.000854	.016005	.032756	.049392	.065904
70	.064707	.081708	.098560	.115255	.131785	.148141
72	.145353	.162163	.178772	.195173	.211355	.227312
74	.223218	.239596	.255720	.271581	.287169	.302478
76	.297429	.313131	.328523	.343595	.358341	.372752
78	.367161	.381940	.396352	.410389	.424043	.437306
80	.431639	.445250	.458437	.471193	.483511	.495385
82	.490148	.502350	.514073	.525311	.536058	.546308
84	.542036	.552598	.562629	.572122	.581073	.589478
86	.586727	.595429	.603550	.611086	.618033	.624390
88	.623717	.630357	.636369	.641753	.646507	.650630
90	.652589	.656980	.660705	.663764	.666157	.667885

		$Q_v(\cos \theta)$					
ν		2.80	2.82	2.84	2.86	2.88	2.90
θ							
90		.652589	.656980	.660705	.663764	.666157	.667886
92		.673007	.674988	.676269	.676854	.676744	.675946
94		.684727	.684160	.682869	.680858	.678134	.674704
96		.687596	.684372	.680407	.675710	.670291	.664159
98		.681552	.675593	.668887	.661447	.653284	.644414
100		.666629	.657889	.648408	.638201	.627285	.615677
102		.642952	.631421	.619167	.606209	.592567	.578261
104		.610739	.596445	.581458	.565801	.549499	.532574
106		.570299	.553307	.535666	.517403	.498546	.479124
108		.522027	.502441	.482265	.461529	.440266	.418506
110		.466404	.444369	.421816	.398780	.375297	.351401
112		.403990	.379689	.354958	.329835	.304359	.278569
114		.335418	.309076	.282404	.255446	.228243	.200840
116		.261394	.233271	.204934	.176431	.147806	.119106
118		.182682	.153078	.123390	.093667	.063959	.034314
120		.100107	.069356	.038664	.008082	-.022336	-.052543
122		.014541	-.016989	-.048306	-.079355	-.110083	-.140439
124		-.073103	-.105015	-.136546	-.167644	-.198252	-.228320
126		-.161879	-.193744	-.225056	-.255757	-.285793	-.315113
128		-.250812	-.282181	-.312813	-.342652	-.371646	-.399743
130		-.338911	-.369312	-.398787	-.427283	-.454748	-.481134
132		-.425174	-.454118	-.481945	-.508603	-.534043	-.558222
134		-.508598	-.535583	-.561258	-.585575	-.608491	-.629964
136		-.588181	-.612697	-.635712	-.657182	-.677071	-.695344
138		-.662936	-.684468	-.704312	-.722432	-.738797	-.753381
140		-.731890	-.749923	-.766089	-.780360	-.792715	-.803135
142		-.794092	-.808115	-.820103	-.830039	-.837910	-.843710
144		-.848616	-.858126	-.865449	-.870578	-.873512	-.874256
146		-.894560	-.899068	-.901254	-.901123	-.898690	-.893972
148		-.931049	-.930081	-.926676	-.920858	-.912654	-.902099
150		-.957226	-.950325	-.940901	-.928993	-.914646	-.897911
152		-.972247	-.958978	-.943129	-.924758	-.903928	-.880711
154		-.975263	-.955210	-.932556	-.907379	-.879764	-.849800
156		-.965395	-.938164	-.908352	-.876057	-.841386	-.804452
158		-.941698	-.906913	-.869611	-.829914	-.787953	-.743865
160		-.903100	-.860397	-.815291	-.767933	-.718478	-.667086
162		-.848309	-.797324	-.744110	-.688847	-.631715	-.572903
164		-.775658	-.716011	-.654378	-.590967	-.525988	-.459657
166		-.682848	-.614114	-.543716	-.471893	-.398886	-.324940
168		-.566483	-.488141	-.408553	-.327992	-.246730	-.165044
170		-.421173	-.332518	-.243155	-.153393	-.063541	.026092
172		-.237609	-.137578	-.037538	.062160	.161170	.259148
174		.002197	.115407	.227689	.338646	.447884	.555021
176		.339740	.469696	.597376	.722322	.844084	.962230
178		.910197	1.066320	1.217847	1.364225	1.504920	1.639424
180		∞	∞	∞	∞	∞	∞

ν	$Q_\nu(\cos \theta)$					
	2.90	2.92	2.94	2.96	2.98	3.00
θ						
0	∞	∞	∞	∞	∞	∞
2	2.232418	2.226479	2.220574	2.214701	2.208860	2.203052
4	1.515121	1.508957	1.502826	1.496726	1.490659	1.484623
6	1.078255	1.071826	1.065427	1.059062	1.052728	1.046425
8	.755096	.748400	.741737	.735106	.728506	.721939
10	.494741	.487810	.480912	.474049	.467218	.460420
12	.275367	.268256	.261181	.254143	.247140	.240172
14	.085925	.078711	.071537	.064403	.057307	.050251
16	-.079753	-.086975	-.094153	-.101286	-.108376	-.115423
18	-.225334	-.232456	-.239528	-.246550	-.253522	-.260445
20	-.353094	-.359997	-.366842	-.373630	-.380362	-.387037
22	-.464500	-.471055	-.477545	-.483969	-.490329	-.496625
24	-.560531	-.566606	-.572607	-.578534	-.584386	-.590166
26	-.641878	-.647339	-.652715	-.658007	-.663216	-.668341
28	-.709063	-.713775	-.718393	-.722916	-.727345	-.731680
30	-.762518	-.766352	-.770080	-.773704	-.777223	-.780638
32	-.802640	-.805473	-.808189	-.810791	-.813277	-.815649
34	-.829827	-.831545	-.833136	-.834603	-.835945	-.837163
36	-.844502	-.845004	-.845371	-.845603	-.845702	-.845668
38	-.847133	-.846332	-.845388	-.844302	-.843076	-.841709
40	-.838238	-.836065	-.833743	-.831273	-.828657	-.825896
42	-.818398	-.814802	-.811054	-.807154	-.803105	-.798908
44	-.788259	-.783211	-.778008	-.772654	-.767150	-.761498
46	-.748530	-.742021	-.735360	-.728550	-.721592	-.714490
48	-.699982	-.692029	-.683929	-.675684	-.667300	-.658777
50	-.643449	-.634090	-.624594	-.614963	-.605202	-.595314
52	-.579816	-.569116	-.558292	-.547347	-.536286	-.525113
54	-.510021	-.498068	-.486008	-.473846	-.461587	-.449234
56	-.435040	-.421946	-.408768	-.395510	-.382178	-.368777
58	-.355884	-.341785	-.327628	-.313419	-.299164	-.284868
60	-.273590	-.258643	-.243670	-.228677	-.213670	-.198654
62	-.189209	-.173593	-.157986	-.142396	-.126828	-.111288
64	-.103799	-.087711	-.071671	-.055688	-.039769	-.023919
66	-.018414	-.002067	.014187	.030342	.046388	.062320
68	.065904	.082283	.098523	.114615	.130553	.146327
70	.148141	.164315	.180299	.196085	.211666	.227035
72	.227312	.243034	.258515	.273746	.288719	.303427
74	.302478	.317499	.332224	.346646	.360758	.374551
76	.372752	.386820	.400538	.413899	.426896	.439522
78	.437306	.450173	.462636	.474689	.486325	.497538
80	.495385	.506809	.517776	.528281	.538319	.547885
82	.546308	.556057	.565299	.574030	.582246	.589944
84	.589478	.597334	.604637	.611384	.617573	.623201
86	.624390	.630153	.635321	.639894	.643870	.647250
88	.650630	.654122	.656983	.659215	.660819	.661797
90	.667885	.668953	.669361	.669113	.668213	.666666

ν	$Q_\nu(\cos \theta)$					
	2.90	2.92	2.94	2.96	2.98	3.00
θ						
90	.667886	.668953	.669361	.669113	.668213	.666666
92	.675946	.674462	.672300	.669463	.665960	.661797
94	.674704	.670576	.665757	.660256	.654084	.647250
96	.664159	.657324	.649799	.641595	.632724	.623201
98	.644414	.634848	.624603	.613693	.602134	.589944
100	.615677	.603394	.590454	.576876	.562680	.547885
102	.578261	.563312	.547743	.531575	.514833	.497538
104	.532574	.515053	.496961	.478324	.459169	.439522
106	.479124	.459164	.438697	.417752	.396360	.374551
108	.418506	.396283	.373630	.350580	.327168	.303427
110	.351401	.327131	.302522	.277612	.252437	.227034
112	.278569	.252507	.226211	.199722	.173081	.146327
114	.200840	.173279	.145604	.117857	.090082	.062320
116	.119106	.090377	.061664	.033014	.004471	-.023919
118	.034314	.004780	-.024593	-.053760	-.082674	-.111289
120	-.052543	-.082487	-.112118	-.141388	-.170249	-.198654
122	-.140439	-.170371	-.199828	-.228762	-.257124	-.284868
124	-.228320	-.257794	-.286625	-.314764	-.342163	-.368777
126	-.315113	-.343665	-.371400	-.398270	-.424229	-.449235
128	-.399743	-.426893	-.453049	-.478166	-.502201	-.525113
130	-.481134	-.506393	-.530480	-.553355	-.574979	-.595314
132	-.558222	-.581095	-.602622	-.622767	-.641496	-.658777
134	-.629964	-.649957	-.668435	-.685368	-.700727	-.714490
136	-.695344	-.711968	-.726917	-.740168	-.751700	-.761498
138	-.753381	-.766159	-.777114	-.786230	-.793497	-.798908
140	-.803135	-.811606	-.818120	-.822673	-.825263	-.825896
142	-.843710	-.847434	-.849087	-.848675	-.846210	-.841709
144	-.874256	-.872821	-.869222	-.863478	-.855617	-.845668
146	-.893972	-.886995	-.877787	-.866384	-.852828	-.837163
148	-.902099	-.889231	-.874099	-.856752	-.837248	-.815649
150	-.897911	-.878847	-.857515	-.833986	-.808334	-.780638
152	-.880711	-.855182	-.827424	-.797525	-.765578	-.731680
154	-.849800	-.817585	-.783221	-.746816	-.708484	-.668341
156	-.804452	-.765373	-.724274	-.681282	-.636534	-.590166
158	-.743865	-.697789	-.649874	-.600271	-.549135	-.496625
160	-.667086	-.613924	-.559161	-.502974	-.445539	-.387037
162	-.572903	-.512601	-.451004	-.388313	-.324725	-.260445
164	-.459657	-.392191	-.323812	-.254741	-.185203	-.115423
166	-.324940	-.250300	-.175213	-.099929	-.024692	.050251
168	-.165044	-.083208	-.001497	.079815	.160461	.240172
170	.026092	.115202	.203486	.290645	.376385	.460420
172	.259148	.355755	.450658	.543533	.634062	.721939
174	.555021	.659680	.761496	.860117	.955202	1.046425
176	.962230	1.076339	1.186010	1.290854	1.390507	1.484623
178	1.639424	1.767250	1.887942	2.001067	2.106227	2.203052
180	∞	∞	∞	∞	∞	∞

		$Q_\nu(\cos \theta)$					
ν		3.00	3.02	3.04	3.06	3.08	3.10
θ							
0		∞	∞	∞	∞	∞	∞
2		2.203052	2.197275	2.191529	2.185816	2.180130	2.174477
4		1.484623	1.478618	1.472644	1.466701	1.460787	1.454903
6		1.046425	1.040153	1.033911	1.027701	1.021519	1.015367
8		.721939	.715403	.708898	.702424	.695980	.689567
10		.460420	.453655	.446923	.440223	.433554	.426917
12		.240172	.233239	.226341	.219478	.212648	.205853
14		.050251	.043232	.036253	.029311	.022407	.015540
16		-.115423	-.122426	-.129386	-.136304	-.143179	-.150012
18		-.260445	-.267319	-.274144	-.280920	-.287648	-.294328
20		-.387037	-.393656	-.400219	-.406726	-.413178	-.419574
22		-.496625	-.502856	-.509023	-.515126	-.521164	-.527140
24		-.590166	-.595872	-.601504	-.607063	-.612549	-.617962
26		-.668341	-.673383	-.678342	-.683217	-.688010	-.692720
28		-.731680	-.735922	-.740070	-.744125	-.748088	-.751957
30		-.780638	-.783949	-.787156	-.790260	-.793260	-.796158
32		-.815649	-.817907	-.820051	-.822082	-.823999	-.825805
34		-.837163	-.838257	-.839228	-.840076	-.840803	-.841408
36		-.845668	-.845502	-.845205	-.844777	-.844219	-.843532
38		-.841709	-.840204	-.838560	-.836780	-.834863	-.832811
40		-.825896	-.822991	-.819943	-.816753	-.813424	-.809956
42		-.798908	-.794564	-.790075	-.785443	-.780669	-.775755
44		-.761498	-.755699	-.749756	-.743671	-.737446	-.731083
46		-.714490	-.707244	-.699859	-.692336	-.684678	-.676887
48		-.658777	-.650118	-.641327	-.632407	-.623360	-.614189
50		-.595314	-.585301	-.575168	-.564917	-.554553	-.544078
52		-.525113	-.513831	-.502444	-.490957	-.479372	-.467695
54		-.449234	-.436793	-.424268	-.411662	-.398982	-.386230
56		-.368777	-.355311	-.341786	-.328207	-.314579	-.300906
58		-.284868	-.270536	-.256175	-.241789	-.227385	-.212967
60		-.198654	-.183637	-.168623	-.153620	-.138633	-.123667
62		-.111288	-.095785	-.080323	-.064910	-.049552	-.034256
64		-.023919	-.008146	.007541	.023139	.038639	.054035
66		.062320	.078130	.093811	.109355	.124756	.140007
68		.146327	.161931	.177358	.192600	.207651	.222504
70		.227035	.242182	.257102	.271788	.286231	.300427
72		.303427	.317863	.332020	.345891	.359468	.372747
74		.374551	.388020	.401157	.413957	.426412	.438517
76		.439522	.451772	.463638	.475116	.486199	.496883
78		.497538	.508324	.518677	.528591	.538063	.547088
80		.547885	.556974	.565583	.573708	.581345	.588491
82		.589944	.597120	.603773	.609898	.615496	.620563
84		.623201	.628268	.632771	.636712	.640088	.642902
86		.647250	.650033	.652222	.653816	.654819	.655231
88		.661797	.662152	.661886	.661005	.659510	.657407
90		.666666	.664477	.661651	.658194	.654113	.649416

ν	$Q_\nu(\cos \theta)$					
	3.00	3.02	3.04	3.06	3.08	3.10
θ						
90	.666666	.664477	.661651	.658194	.654113	.649416
92	.661797	.656982	.651524	.645431	.638712	.631378
94	.647250	.639764	.631639	.622885	.613516	.603545
96	.623201	.613038	.602251	.590855	.578864	.566296
98	.589944	.577138	.563736	.549755	.535214	.520133
100	.547885	.532512	.516583	.500119	.483143	.465677
102	.497538	.479717	.461393	.442591	.423337	.403658
104	.439522	.419413	.398868	.377916	.356587	.334909
106	.374551	.352356	.329808	.306937	.283775	.260356
108	.303427	.279392	.255097	.230578	.205868	.181004
110	.227034	.201443	.175699	.149841	.123906	.097931
112	.146327	.119500	.092642	.065791	.038987	.012271
114	.062320	.034616	.007010	-.020454	-.047737	-.074797
116	-.023919	-.052114	-.080068	-.107740	-.135086	-.162064
118	-.111289	-.139557	-.167436	-.194882	-.221850	-.248301
120	-.198654	-.226558	-.253915	-.280682	-.306816	-.332277
122	-.284868	-.311948	-.338320	-.363942	-.388771	-.412770
124	-.368777	-.394562	-.419474	-.443474	-.466523	-.488583
126	-.449235	-.473243	-.496216	-.518116	-.538906	-.558554
128	-.525113	-.546864	-.567417	-.586739	-.604800	-.621571
130	-.595314	-.614327	-.631987	-.648266	-.663138	-.676582
132	-.658777	-.674582	-.688888	-.701672	-.712916	-.722605
134	-.714490	-.726634	-.737143	-.746004	-.753205	-.758741
136	-.761498	-.769549	-.775844	-.780381	-.783157	-.784177
138	-.798908	-.802461	-.804158	-.804005	-.802012	-.798193
140	-.825896	-.824581	-.821330	-.816163	-.809101	-.800170
142	-.841709	-.835195	-.826692	-.816232	-.803851	-.789587
144	-.845668	-.833668	-.819656	-.803677	-.785782	-.766025
146	-.837163	-.819440	-.799716	-.778049	-.754507	-.729157
148	-.815649	-.792022	-.766440	-.738978	-.709718	-.678746
150	-.780638	-.750984	-.719460	-.686160	-.651183	-.614631
152	-.731680	-.695936	-.658453	-.619343	-.578721	-.536707
154	-.668341	-.626511	-.583121	-.538299	-.492180	-.444900
156	-.590166	-.542321	-.493144	-.442785	-.391396	-.339129
158	-.496625	-.442905	-.388139	-.332495	-.276142	-.219252
160	-.387037	-.327652	-.267567	-.206970	-.146048	-.084986
162	-.260445	-.195676	-.130622	-.065486	-.000474	.064214
164	-.115423	-.045623	.023973	.093145	.161673	.229343
166	.050251	.124657	.198285	.270899	.342265	.412156
168	.240172	.318686	.395747	.471103	.544508	.615728
170	.460420	.542470	.622261	.699533	.774029	.845508
172	.721939	.806867	.888563	.966752	1.041175	1.111589
174	1.046425	1.133474	1.216055	1.293891	1.366718	1.434300
176	1.484623	1.572877	1.654969	1.730620	1.799575	1.861608
178	2.203052	2.291206	2.370385	2.440324	2.500784	2.551576
180	∞	∞	∞	∞	∞	∞

ν	3.10	3.12	3.14	$Q_\nu(\cos \theta)$ 3.16	3.18	3.20
θ						
0	∞	∞	∞	∞	∞	∞
2	2.174477	2.168853	2.163258	2.157694	2.152157	2.146649
4	1.454903	1.449048	1.443223	1.437426	1.431658	1.425918
6	1.015367	1.009245	1.003151	.997087	.991050	.985042
8	.689567	.683183	.676829	.670503	.664207	.657939
10	.426917	.420311	.413735	.407191	.400677	.394193
12	.205853	.199091	.192362	.185667	.179004	.172374
14	.015540	.008710	.001918	-.004837	-.011557	-.018239
16	-.150012	-.156803	-.163552	-.170259	-.176925	-.183550
18	-.294328	-.300959	-.307543	-.314079	-.320567	-.327008
20	-.419574	-.425915	-.432200	-.438431	-.444607	-.450729
22	-.527140	-.533051	-.538900	-.544685	-.550407	-.556067
24	-.617962	-.623303	-.628571	-.633768	-.638891	-.643944
26	-.692720	-.697349	-.701895	-.706359	-.710741	-.715042
28	-.751957	-.755735	-.759420	-.763013	-.766515	-.769925
30	-.796158	-.798954	-.801648	-.804239	-.806730	-.809119
32	-.825805	-.827498	-.829080	-.830551	-.831911	-.833161
34	-.841408	-.841892	-.842256	-.842501	-.842626	-.842634
36	-.843532	-.842717	-.841774	-.840705	-.839510	-.838190
38	-.832811	-.830626	-.828307	-.825857	-.823275	-.820564
40	-.809956	-.806350	-.802608	-.798731	-.794720	-.790578
42	-.775755	-.770703	-.765514	-.760191	-.754733	-.749145
44	-.731083	-.724583	-.717949	-.711184	-.704289	-.697266
46	-.676887	-.668965	-.660916	-.652741	-.644443	-.636026
48	-.614189	-.604898	-.595489	-.585965	-.576329	-.566585
50	-.544078	-.533496	-.522810	-.512025	-.501143	-.490168
52	-.467695	-.455929	-.444078	-.432147	-.420138	-.408056
54	-.386230	-.373413	-.360533	-.347597	-.334607	-.321569
56	-.300906	-.287194	-.273448	-.259673	-.245873	-.232054
58	-.212967	-.198542	-.184114	-.169690	-.155274	-.140872
60	-.123667	-.108730	-.093827	-.078963	-.064145	-.049378
62	-.034256	-.019027	-.003871	.011203	.026192	.041088
64	.054035	.069321	.084489	.099533	.114447	.129225
66	.140007	.155101	.170032	.184793	.199377	.213778
68	.222504	.237151	.251586	.265803	.279795	.293556
70	.300427	.314367	.328045	.341456	.354592	.367449
72	.372747	.385720	.398381	.410724	.422744	.434436
74	.438517	.450267	.461655	.472677	.483327	.493601
76	.496883	.507162	.517031	.526488	.535526	.544143
78	.547088	.555663	.563783	.571445	.578646	.585384
80	.588491	.595144	.601301	.606960	.612121	.616781
82	.620563	.625100	.629104	.632577	.635518	.637927
84	.642902	.645153	.646842	.647972	.648544	.648560
86	.655231	.655058	.654300	.652963	.651050	.648566
88	.657407	.654702	.651400	.647506	.643029	.637975
90	.649416	.644109	.638203	.631704	.624622	.616968

ν	$Q_\nu(\cos \theta)$					
	3.10	3.12	3.14	3.16	3.18	3.20
θ						
90	.649416	.644109	.638203	.631703	.624622	.616968
92	.631378	.623440	.614908	.605794	.596110	.585869
94	.603545	.592985	.581850	.570154	.557913	.545143
96	.566296	.553166	.539493	.525294	.510587	.495390
98	.520133	.504531	.488430	.471849	.454810	.437335
100	.465677	.447744	.429368	.410573	.391384	.371824
102	.403658	.383579	.363127	.342330	.321214	.299808
104	.334909	.312913	.290626	.268081	.245306	.222332
106	.260356	.236711	.212873	.188875	.164748	.140527
108	.181004	.156021	.130952	.105834	.080701	.055588
110	.097931	.071955	.046013	.020143	-.005617	-.031234
112	.012271	-.014319	-.040745	-.066967	-.092949	-.118653
114	-.074797	-.101593	-.128086	-.154237	-.180007	-.205359
116	-.162064	-.188633	-.214754	-.240387	-.265494	-.290038
118	-.248301	-.274192	-.299484	-.324138	-.348118	-.371387
120	-.332277	-.357024	-.381018	-.404224	-.426605	-.448128
122	-.412770	-.435899	-.458123	-.479407	-.499719	-.519027
124	-.488583	-.509620	-.529601	-.548494	-.566272	-.582907
126	-.558554	-.577029	-.594302	-.610347	-.625140	-.638660
128	-.621571	-.637026	-.651142	-.663898	-.675278	-.685265
130	-.676582	-.688577	-.699108	-.708161	-.715725	-.721794
132	-.722605	-.730728	-.737275	-.742241	-.745624	-.747426
134	-.758741	-.762609	-.764808	-.765343	-.764222	-.761455
136	-.784177	-.783446	-.780976	-.776782	-.770881	-.763295
138	-.798193	-.792567	-.785155	-.775984	-.765083	-.752486
140	-.800170	-.789401	-.776829	-.762491	-.746432	-.728696
142	-.789587	-.773486	-.755594	-.735965	-.714654	-.691720
144	-.766025	-.744463	-.721159	-.696179	-.669595	-.641478
146	-.729157	-.702073	-.673333	-.643019	-.611214	-.578008
148	-.678746	-.646151	-.612026	-.576468	-.539577	-.501455
150	-.614631	-.576610	-.537228	-.496599	-.454837	-.412059
152	-.536707	-.493423	-.448995	-.403550	-.357218	-.310131
154	-.444900	-.396599	-.347418	-.297500	-.246989	-.196030
156	-.339129	-.286142	-.232589	-.178630	-.124422	-.070123
158	-.219252	-.161996	-.104545	-.047070	.010256	.067266
160	-.084986	-.023971	.036810	.097175	.156942	.215932
162	.064214	.128378	.191820	.254346	.315764	.375889
164	.229343	.295940	.361259	.425096	.487255	.547544
166	.412156	.480350	.546632	.610794	.672636	.731966
168	.615728	.684532	.750701	.814027	.874309	.931360
170	.845508	.913739	.978500	1.039587	1.096805	1.149974
172	1.111589	1.177763	1.239483	1.296552	1.348788	1.396030
174	1.434300	1.496412	1.552856	1.603451	1.648038	1.686483
176	1.861608	1.916516	1.964126	2.004289	2.036884	2.061822
178	2.551576	2.592535	2.623541	2.644511	2.655396	2.656190
180	∞	∞	∞	∞	∞	∞

	$Q_\nu(\cos \theta)$					
ν	3.20	3.22	3.24	3.26	3.28	3.30
θ						
0	∞	∞	∞	∞	∞	∞
2	2.146649	2.141170	2.135719	2.130295	2.124899	2.119529
4	1.425918	1.420206	1.414521	1.408863	1.403233	1.397629
6	.985042	.979061	.973108	.967182	.961283	.955409
8	.657939	.651700	.645488	.639304	.633148	.627019
10	.394193	.387739	.381314	.374918	.368552	.362213
12	.172374	.165776	.159211	.152677	.146175	.139704
14	-.018239	-.024886	-.031498	-.038074	-.044613	-.051119
16	-.183550	-.190134	-.196677	-.203180	-.209642	-.216064
18	-.327008	-.333402	-.339750	-.346050	-.352304	-.358511
20	-.450729	-.456796	-.462809	-.468768	-.474673	-.480524
22	-.556067	-.561663	-.567198	-.572670	-.578079	-.583427
24	-.643944	-.648924	-.653833	-.658670	-.663437	-.668132
26	-.715042	-.719261	-.723400	-.727457	-.731434	-.735330
28	-.769925	-.773244	-.776473	-.779611	-.782659	-.785616
30	-.809119	-.811408	-.813596	-.815685	-.817673	-.819563
32	-.833161	-.834301	-.835332	-.836254	-.837068	-.837774
34	-.842634	-.842523	-.842296	-.841952	-.841492	-.840917
36	-.838190	-.836746	-.835178	-.833488	-.831676	-.829744
38	-.820564	-.817724	-.814757	-.811663	-.808444	-.805100
40	-.790578	-.786305	-.781902	-.777372	-.772715	-.767933
42	-.749145	-.743426	-.737579	-.731606	-.725508	-.719288
44	-.697266	-.690117	-.682844	-.675451	-.667938	-.660308
46	-.636026	-.627490	-.618839	-.610076	-.601202	-.592222
48	-.566585	-.556734	-.546781	-.536728	-.526578	-.516335
50	-.490168	-.479103	-.467953	-.456719	-.445407	-.434019
52	-.408056	-.395905	-.383690	-.371413	-.359079	-.346693
54	-.321569	-.308487	-.295366	-.282210	-.269023	-.255810
56	-.232054	-.218221	-.204378	-.190531	-.176684	-.162843
58	-.140872	-.126489	-.112132	-.097804	-.083511	-.069259
60	-.049378	-.034669	-.020022	-.005443	.009060	.023486
62	.041088	.055886	.070580	.085164	.099633	.113979
64	.129225	.143861	.158348	.172680	.186852	.200858
66	.213778	.227990	.242008	.255824	.269433	.282830
68	.293556	.307080	.320362	.333394	.346172	.358690
70	.367449	.380020	.392300	.404283	.415964	.427338
72	.434436	.445793	.456812	.467486	.477812	.487785
74	.493601	.503494	.513001	.522120	.530846	.539175
76	.544143	.552334	.560097	.567429	.574326	.580788
78	.585384	.591656	.597461	.602796	.607661	.612054
80	.616781	.620940	.624597	.627752	.630406	.632559
82	.637927	.639806	.641155	.641977	.642274	.642047
84	.648560	.648025	.646939	.645309	.643138	.640430
86	.648566	.645516	.641906	.637742	.633031	.627778
88	.637975	.632351	.626166	.619428	.612147	.604331
90	.616968	.608752	.599983	.590674	.580836	.570482

ν	$Q_\nu(\cos \theta)$					
	3.20	3.22	3.24	3.26	3.28	3.30
θ						
90	.616968	.608751	.599983	.590674	.580836	.570481
92	.585869	.575084	.563769	.551936	.539602	.526781
94	.545143	.531859	.518079	.503818	.489094	.473924
96	.495390	.479723	.463605	.447056	.430096	.412745
98	.437335	.419446	.401165	.382515	.363519	.344200
100	.371824	.351919	.331695	.311176	.290389	.269359
102	.299808	.278138	.256233	.234121	.211831	.189390
104	.222332	.199190	.175909	.152521	.129055	.105542
106	.140527	.116243	.091929	.067618	.043341	.019131
108	.055588	.030529	.005559	-.019288	-.043979	-.068480
110	-.031234	-.056669	-.081889	-.106857	-.131540	-.155903
112	-.118653	-.144041	-.169079	-.193730	-.217960	-.241735
114	-.205359	-.230255	-.254660	-.278539	-.301857	-.324582
116	-.290038	-.313982	-.337291	-.359932	-.381871	-.403078
118	-.371387	-.393910	-.415654	-.436588	-.456680	-.475902
120	-.448128	-.468760	-.488471	-.507232	-.525015	-.541795
122	-.519027	-.537304	-.554521	-.570654	-.585680	-.599578
124	-.582907	-.598375	-.612654	-.625724	-.637567	-.648168
126	-.638660	-.650888	-.661808	-.671405	-.679668	-.686589
128	-.685265	-.693848	-.701017	-.706765	-.711089	-.713987
130	-.721794	-.726361	-.729427	-.730993	-.731062	-.729643
132	-.747426	-.747650	-.746305	-.743401	-.738953	-.732976
134	-.761455	-.757057	-.751045	-.743440	-.734268	-.723554
136	-.763295	-.754050	-.743174	-.730699	-.716661	-.701099
138	-.752486	-.738231	-.722357	-.704910	-.685935	-.665486
140	-.728696	-.709335	-.688400	-.665949	-.642043	-.616743
142	-.691720	-.667228	-.641244	-.613837	-.585080	-.555049
144	-.641478	-.611908	-.580963	-.548727	-.515286	-.480729
146	-.578008	-.543492	-.507758	-.470906	-.433033	-.394240
148	-.501455	-.462209	-.421945	-.380775	-.338809	-.296162
150	-.412059	-.368385	-.323937	-.278837	-.233210	-.187180
152	-.310131	-.262422	-.214226	-.165678	-.116911	-.068063
154	-.196030	-.144771	-.093356	-.041932	.009355	.060362
156	-.070123	-.015892	.038115	.091744	.144840	.197252
158	.067266	.123791	.179667	.234729	.288819	.341779
160	.215932	.273968	.330880	.386498	.440659	.493206
162	.375889	.434539	.491538	.546717	.599910	.650962
164	.547544	.605780	.661786	.715393	.766441	.814778
166	.731966	.788601	.842369	.893106	.940660	.984888
168	.931360	.985001	1.035070	1.081414	1.123893	1.162383
170	1.149974	1.198931	1.243526	1.283624	1.319108	1.349875
172	1.396030	1.438132	1.474968	1.506429	1.532431	1.552902
174	1.686483	1.718671	1.744513	1.763939	1.776908	1.783395
176	2.061822	2.079038	2.088498	2.090196	2.084155	2.070424
178	2.656190	2.646923	2.627660	2.598509	2.559610	2.511141
180	∞	∞	∞	∞	∞	∞

		$Q_\nu(\cos \theta)$					
ν		3.30	3.32	3.34	3.36	3.38	3.40
θ							
0		∞	∞	∞	∞	∞	∞
2		2.119529	2.114188	2.108872	2.103582	2.098319	2.093081
4		1.397629	1.392051	1.386500	1.380975	1.375475	1.370000
6		.955409	.949563	.943743	.937948	.932179	.926436
8		.627019	.620917	.614842	.608793	.602771	.596774
10		.362213	.355905	.349623	.343370	.337145	.330948
12		.139704	.133264	.126855	.120478	.114130	.107813
14		-.051119	-.057589	-.064024	-.070425	-.076791	-.083123
16		-.216064	-.222446	-.228788	-.235090	-.241353	-.247577
18		-.358511	-.364672	-.370787	-.376856	-.382880	-.388857
20		-.480524	-.486321	-.492065	-.497756	-.503394	-.508979
22		-.583427	-.588713	-.593937	-.599099	-.604201	-.609240
24		-.668132	-.672756	-.677310	-.681793	-.686206	-.690548
26		-.735330	-.739146	-.742882	-.746538	-.750115	-.753612
28		-.785616	-.788484	-.791262	-.793951	-.796551	-.799063
30		-.819563	-.821353	-.823045	-.824639	-.826135	-.827533
32		-.837774	-.838373	-.838865	-.839250	-.839530	-.839704
34		-.840917	-.840228	-.839425	-.838509	-.837480	-.836339
36		-.829744	-.827691	-.825520	-.823230	-.820823	-.818300
38		-.805100	-.801633	-.798045	-.794335	-.790506	-.786558
40		-.767933	-.763027	-.757999	-.752850	-.747582	-.742196
42		-.719288	-.712946	-.706485	-.699907	-.693213	-.686406
44		-.660308	-.652563	-.644705	-.636737	-.628661	-.620478
46		-.592222	-.583136	-.573948	-.564660	-.555276	-.545797
48		-.516335	-.506001	-.495580	-.485074	-.474487	-.463821
50		-.434019	-.422559	-.411030	-.399437	-.387782	-.376069
52		-.346693	-.334257	-.321776	-.309254	-.296695	-.284103
54		-.255810	-.242576	-.229324	-.216060	-.202787	-.189510
56		-.162843	-.149011	-.135194	-.121397	-.107624	-.093881
58		-.069259	-.055053	-.040898	-.026799	-.012760	.001211
60		.023486	.037826	.052075	.066229	.080282	.094229
62		.113979	.128198	.142285	.156233	.170037	.183692
64		.200858	.214691	.228348	.241821	.255106	.268197
66		.282830	.296008	.308963	.321689	.334180	.346433
68		.358690	.370944	.382926	.394634	.406061	.417203
70		.427338	.438400	.449146	.459571	.469671	.479441
72		.487785	.497401	.506656	.515547	.524069	.532220
74		.539175	.547104	.554631	.561752	.568466	.574769
76		.580788	.586810	.592392	.597533	.602230	.606483
78		.612054	.615974	.619422	.622397	.624899	.626930
80		.632559	.634211	.635366	.636023	.636185	.635854
82		.642047	.641301	.640038	.638261	.635975	.633184
84		.640430	.637190	.633424	.629138	.624337	.619028
86		.627778	.621993	.615682	.608852	.601515	.593676
88		.604331	.595990	.587135	.577776	.567924	.557591
90		.570482	.559623	.548272	.536443	.524150	.511406

		$Q_\nu(\cos \theta)$					
ν		3.30	3.32	3.34	3.36	3.38	3.40
θ							
90		.570481	.559622	.548272	.536443	.524150	.511406
92		.526781	.513487	.499737	.485547	.470933	.455911
94		.473924	.458328	.442323	.425928	.409162	.392044
96		.412745	.395025	.376957	.358561	.339860	.320875
98		.344200	.324582	.304688	.284542	.264169	.243592
100		.269359	.248112	.226675	.205074	.183335	.161484
102		.189390	.166827	.144170	.121448	.098688	.075920
104		.105542	.082013	.058498	.035025	.011627	-.011668
106		.019131	-.004979	-.028959	-.052779	-.076406	-.099810
108		-.068480	-.092760	-.116784	-.140522	-.163941	-.187012
110		-.155903	-.179914	-.203538	-.226746	-.249505	-.271785
112		-.241735	-.265023	-.287790	-.310006	-.331640	-.352663
114		-.324582	-.346682	-.368125	-.388882	-.408924	-.428225
116		-.403078	-.423522	-.443174	-.462007	-.479995	-.497114
118		-.475902	-.494226	-.511627	-.528081	-.543565	-.558058
120		-.541795	-.557549	-.572254	-.585891	-.598442	-.609890
122		-.599578	-.612329	-.623917	-.634326	-.643545	-.651562
124		-.648168	-.657513	-.665592	-.672397	-.677921	-.682160
126		-.686589	-.692160	-.696379	-.699244	-.700757	-.700921
128		-.713987	-.715461	-.715515	-.714156	-.711393	-.707239
130		-.729643	-.726745	-.722383	-.716571	-.709329	-.700679
132		-.732976	-.725491	-.716521	-.706093	-.694234	-.680977
134		-.723554	-.711330	-.697630	-.682490	-.665949	-.648051
136		-.701099	-.684055	-.665573	-.645701	-.624490	-.601994
138		-.665486	-.643613	-.620376	-.595833	-.570045	-.543078
140		-.616743	-.590116	-.562231	-.533158	-.502972	-.471749
142		-.555049	-.523823	-.491483	-.458111	-.423793	-.388616
144		-.480729	-.445146	-.408631	-.371278	-.333183	-.294444
146		-.394240	-.354631	-.314310	-.273383	-.231957	-.190140
148		-.296162	-.252947	-.209281	-.165280	-.121059	-.076736
150		-.187180	-.140872	-.094412	-.047926	-.001538	.044627
152		-.068063	-.019267	.029341	.077630	.125469	.172727
154		.060362	.110948	.160969	.210288	.258769	.306278
156		.197252	.248831	.299433	.348914	.397138	.443969
158		.341779	.393459	.443711	.492391	.539363	.584495
160		.493206	.543986	.592852	.639664	.684289	.726602
162		.650962	.699723	.746051	.789812	.830883	.869146
164		.814778	.860263	.902761	.942152	.978323	1.011173
166		.984888	1.025663	1.062864	1.096387	1.126138	1.152036
168		1.162383	1.196774	1.226964	1.252874	1.274435	1.291593
170		1.349875	1.375841	1.396935	1.413108	1.424324	1.430565
172		1.552902	1.567795	1.577079	1.580745	1.578805	1.571286
174		1.783395	1.783406	1.776964	1.764119	1.744942	1.719526
176		2.070424	2.049084	2.020241	1.984026	1.940603	1.890156
178		2.511141	2.453317	2.386384	2.310625	2.226353	2.133912
180		∞	∞	∞	∞	∞	∞

ν	$Q_\nu(\cos \theta)$					
	3.40	3.42	3.44	3.46	3.48	3.50
θ						
0	∞	∞	∞	∞	∞	∞
2	2.093081	2.087870	2.082683	2.077521	2.072384	2.067272
4	1.370000	1.364550	1.359126	1.353725	1.348349	1.342998
6	.926436	.920717	.915023	.909354	.903709	.898088
8	.596774	.590802	.584857	.578937	.573042	.567172
10	.330948	.324778	.318635	.312518	.306429	.300366
12	.107813	.101525	.095269	.089041	.082843	.076674
14	-.083123	-.089421	-.095686	-.101916	-.108113	-.114277
16	-.247577	-.253762	-.259907	-.266014	-.272082	-.278111
18	-.388857	-.394789	-.400676	-.406518	-.412314	-.418066
20	-.508979	-.514511	-.519989	-.525416	-.530790	-.536112
22	-.609240	-.614219	-.619136	-.623993	-.628789	-.633524
24	-.690548	-.694821	-.699023	-.703156	-.707219	-.711213
26	-.753612	-.757029	-.760368	-.763627	-.766808	-.769911
28	-.799063	-.801486	-.803820	-.806067	-.808226	-.810298
30	-.827533	-.828834	-.830039	-.831147	-.832159	-.833076
32	-.839704	-.839774	-.839739	-.839601	-.839359	-.839014
34	-.836339	-.835088	-.833726	-.832254	-.830673	-.828984
36	-.818300	-.815661	-.812908	-.810042	-.807062	-.803971
38	-.786558	-.782493	-.778312	-.774016	-.769606	-.765084
40	-.742196	-.736694	-.731077	-.725347	-.719505	-.713553
42	-.686406	-.679486	-.672456	-.665318	-.658074	-.650726
44	-.620478	-.612192	-.603804	-.595317	-.586733	-.578054
46	-.545797	-.536227	-.526567	-.516822	-.506992	-.497082
48	-.463821	-.453080	-.442267	-.431385	-.420437	-.409426
50	-.376069	-.364301	-.352483	-.340617	-.328708	-.316758
52	-.284103	-.271482	-.258835	-.246168	-.233482	-.220784
54	-.189510	-.176234	-.162962	-.149699	-.136450	-.123218
56	-.093881	-.080171	-.066500	-.052872	-.039292	-.025765
58	.001211	.015112	.028937	.042681	.056339	.069907
60	.094229	.108064	.121783	.135380	.148850	.162189
62	.183692	.197193	.210535	.223712	.236719	.249552
64	.268197	.281089	.293777	.306256	.318522	.330569
66	.346433	.358441	.370200	.381705	.392952	.403937
68	.417203	.428056	.438616	.448877	.458837	.468490
70	.479441	.488879	.497979	.506739	.515155	.523225
72	.532220	.539996	.547395	.554414	.561051	.567304
74	.574769	.580660	.586138	.591200	.595846	.600075
76	.606483	.610292	.613655	.616574	.619047	.621077
78	.626930	.628489	.629579	.630200	.630355	.630046
80	.635854	.635034	.633726	.631935	.629665	.626919
82	.633184	.629893	.626107	.621831	.617071	.611833
84	.619028	.613219	.606916	.600128	.592861	.585125
86	.593676	.585347	.576537	.567256	.557514	.547322
88	.557591	.546789	.535530	.523826	.511690	.499135
90	.511406	.498227	.484626	.470619	.456220	.441447

		$Q_\nu(\cos \theta)$					
ν		3.40	3.42	3.44	3.46	3.48	3.50
θ							
90		.511406	.498226	.484625	.470618	.456219	.441446
92		.455911	.440499	.424714	.408574	.392095	.375298
94		.392044	.374594	.356832	.338777	.320450	.301872
96		.320875	.301629	.282143	.262441	.242544	.222475
98		.243592	.222837	.201927	.180887	.159741	.138515
100		.161484	.139548	.117554	.095527	.073494	.051480
102		.075920	.053170	.030468	.007840	-.014684	-.037080
104		-.011668	-.034832	-.057834	-.080646	-.103241	-.125589
106		-.099810	-.122961	-.145830	-.168387	-.190604	-.212453
108		-.187012	-.209703	-.231987	-.253832	-.275213	-.296100
110		-.271785	-.293556	-.314790	-.335459	-.355536	-.374994
112		-.352663	-.373048	-.392765	-.411791	-.430099	-.447665
114		-.428225	-.446757	-.464496	-.481419	-.497504	-.512729
116		-.497114	-.513339	-.528651	-.543028	-.556453	-.568908
118		-.558058	-.571541	-.583997	-.595411	-.605768	-.615056
120		-.609890	-.620222	-.629426	-.637490	-.644407	-.650171
122		-.651562	-.658369	-.663961	-.668333	-.671484	-.673414
124		-.682160	-.685114	-.686782	-.687169	-.686279	-.684121
126		-.700921	-.699742	-.697230	-.693396	-.688252	-.681816
128		-.707239	-.701710	-.694821	-.686594	-.677051	-.666217
130		-.700679	-.690644	-.679253	-.666533	-.652518	-.637242
132		-.680977	-.666356	-.650409	-.633173	-.614692	-.595010
134		-.648051	-.628838	-.608361	-.586667	-.563810	-.539843
136		-.601994	-.578267	-.553369	-.527359	-.500301	-.472260
138		-.543078	-.514999	-.485876	-.455781	-.424787	-.392969
140		-.471749	-.439567	-.406504	-.372643	-.338068	-.302861
142		-.388616	-.352669	-.316041	-.278825	-.241111	-.202994
144		-.294444	-.255161	-.215432	-.175359	-.135041	-.094581
146		-.190140	-.148040	-.105764	-.063422	-.021121	.021030
148		-.076736	-.032427	.011752	.055688	.099267	.142374
150		.044627	.090449	.135805	.180574	.224642	.267891
152		.172727	.219277	.264994	.309756	.353445	.395944
154		.306278	.352687	.397868	.441700	.484064	.524850
156		.443969	.489279	.532943	.574842	.614863	.652899
158		.584495	.627661	.668742	.707624	.744203	.778380
160		.726602	.766483	.803823	.838518	.870476	.899610
162		.869146	.904495	.936833	.966071	.992133	1.014952
164		1.011173	1.040611	1.066559	1.088948	1.107724	1.122841
166		1.152036	1.174013	1.192014	1.205997	1.215935	1.221812
168		1.291593	1.304309	1.312561	1.316338	1.315649	1.310514
170		1.430565	1.431832	1.428140	1.419524	1.406033	1.387734
172		1.571286	1.558238	1.539731	1.515851	1.486704	1.452415
174		1.719526	1.687989	1.650465	1.607116	1.558116	1.503668
176		1.890156	1.832896	1.769060	1.698905	1.622714	1.540789
178		2.133912	2.033681	1.926058	1.811475	1.690385	1.563269

180

1.570796

TABLE III

Table of $P_{-\frac{1}{2}+ib}(\cos \theta)$: Five Significant Figures

θ : 0° (5°) 175°

b : 0 (0.1) 5.0

$$P_{-\frac{1}{2}+ib}(\cos \theta)$$

b	θ	0	5	10	15
.0		1.0000E-00	1.0004E-00	1.0019E-00	1.0043E-00
.1		1.0000E-00	1.0004E-00	1.0019E-00	1.0044E-00
.2		1.0000E-00	1.0005E-00	1.0022E-00	1.0049E-00
.3		1.0000E-00	1.0006E-00	1.0025E-00	1.0058E-00
.4		1.0000E-00	1.0007E-00	1.0031E-00	1.0070E-00
.5		1.0000E-00	1.0009E-00	1.0038E-00	1.0086E-00
.6		1.0000E-00	1.0011E-00	1.0046E-00	1.0105E-00
.7		1.0000E-00	1.0014E-00	1.0056E-00	1.0127E-00
.8		1.0000E-00	1.0016E-00	1.0067E-00	1.0153E-00
.9		1.0000E-00	1.0020E-00	1.0080E-00	1.0182E-00
1.0		1.0000E-00	1.0023E-00	1.0095E-00	1.0215E-00
1.1		1.0000E-00	1.0027E-00	1.0111E-00	1.0252E-00
1.2		1.0000E-00	1.0032E-00	1.0129E-00	1.0292E-00
1.3		1.0000E-00	1.0036E-00	1.0148E-00	1.0336E-00
1.4		1.0000E-00	1.0042E-00	1.0169E-00	1.0383E-00
1.5		1.0000E-00	1.0047E-00	1.0191E-00	1.0434E-00
1.6		1.0000E-00	1.0053E-00	1.0215E-00	1.0488E-00
1.7		1.0000E-00	1.0059E-00	1.0240E-00	1.0546E-00
1.8		1.0000E-00	1.0066E-00	1.0267E-00	1.0608E-00
1.9		1.0000E-00	1.0073E-00	1.0296E-00	1.0674E-00
2.0		1.0000E-00	1.0081E-00	1.0326E-00	1.0743E-00
2.1		1.0000E-00	1.0088E-00	1.0358E-00	1.0816E-00
2.2		1.0000E-00	1.0097E-00	1.0391E-00	1.0893E-00
2.3		1.0000E-00	1.0105E-00	1.0426E-00	1.0974E-00
2.4		1.0000E-00	1.0114E-00	1.0463E-00	1.1059E-00
2.5		1.0000E-00	1.0124E-00	1.0501E-00	1.1148E-00
2.6		1.0000E-00	1.0133E-00	1.0541E-00	1.1241E-00
2.7		1.0000E-00	1.0144E-00	1.0583E-00	1.1338E-00
2.8		1.0000E-00	1.0154E-00	1.0626E-00	1.1439E-00
2.9		1.0000E-00	1.0165E-00	1.0671E-00	1.1544E-00
3.0		1.0000E-00	1.0176E-00	1.0717E-00	1.1653E-00
3.1		1.0000E-00	1.0188E-00	1.0766E-00	1.1767E-00
3.2		1.0000E-00	1.0200E-00	1.0815E-00	1.1885E-00
3.3		1.0000E-00	1.0213E-00	1.0867E-00	1.2007E-00
3.4		1.0000E-00	1.0226E-00	1.0920E-00	1.2134E-00
3.5		1.0000E-00	1.0239E-00	1.0976E-00	1.2265E-00
3.6		1.0000E-00	1.0253E-00	1.1032E-00	1.2401E-00
3.7		1.0000E-00	1.0267E-00	1.1091E-00	1.2542E-00
3.8		1.0000E-00	1.0281E-00	1.1151E-00	1.2687E-00
3.9		1.0000E-00	1.0296E-00	1.1214E-00	1.2838E-00
4.0		1.0000E-00	1.0311E-00	1.1277E-00	1.2993E-00
4.1		1.0000E-00	1.0327E-00	1.1343E-00	1.3153E-00
4.2		1.0000E-00	1.0343E-00	1.1411E-00	1.3318E-00
4.3		1.0000E-00	1.0360E-00	1.1480E-00	1.3488E-00
4.4		1.0000E-00	1.0376E-00	1.1552E-00	1.3663E-00
4.5		1.0000E-00	1.0394E-00	1.1625E-00	1.3844E-00
4.6		1.0000E-00	1.0411E-00	1.1700E-00	1.4030E-00
4.7		1.0000E-00	1.0430E-00	1.1777E-00	1.4222E-00
4.8		1.0000E-00	1.0448E-00	1.1856E-00	1.4419E-00
4.9		1.0000E-00	1.0467E-00	1.1937E-00	1.4623E-00
5.0		1.0000E-00	1.0486E-00	1.2019E-00	1.4831E-00

		$P_{-\frac{1}{2}+ib}(\cos \theta)$			
		15	20	25	30
b	θ				
.0		1.0043E-00	1.0076E-00	1.0120E-00	1.0174E-00
.1		1.0044E-00	1.0079E-00	1.0125E-00	1.0181E-00
.2		1.0049E-00	1.0088E-00	1.0139E-00	1.0202E-00
.3		1.0058E-00	1.0104E-00	1.0163E-00	1.0237E-00
.4		1.0070E-00	1.0125E-00	1.0197E-00	1.0286E-00
.5		1.0086E-00	1.0153E-00	1.0241E-00	1.0349E-00
.6		1.0105E-00	1.0187E-00	1.0294E-00	1.0427E-00
.7		1.0127E-00	1.0227E-00	1.0358E-00	1.0519E-00
.8		1.0153E-00	1.0274E-00	1.0431E-00	1.0626E-00
.9		1.0182E-00	1.0327E-00	1.0515E-00	1.0748E-00
1.0		1.0215E-00	1.0386E-00	1.0608E-00	1.0885E-00
1.1		1.0252E-00	1.0452E-00	1.0712E-00	1.1038E-00
1.2		1.0292E-00	1.0524E-00	1.0827E-00	1.1206E-00
1.3		1.0336E-00	1.0602E-00	1.0952E-00	1.1390E-00
1.4		1.0383E-00	1.0688E-00	1.1088E-00	1.1591E-00
1.5		1.0434E-00	1.0780E-00	1.1235E-00	1.1809E-00
1.6		1.0488E-00	1.0878E-00	1.1394E-00	1.2044E-00
1.7		1.0546E-00	1.0984E-00	1.1563E-00	1.2297E-00
1.8		1.0608E-00	1.1097E-00	1.1745E-00	1.2569E-00
1.9		1.0674E-00	1.1217E-00	1.1939E-00	1.2859E-00
2.0		1.0743E-00	1.1344E-00	1.2144E-00	1.3169E-00
2.1		1.0816E-00	1.1478E-00	1.2363E-00	1.3499E-00
2.2		1.0893E-00	1.1620E-00	1.2594E-00	1.3850E-00
2.3		1.0974E-00	1.1769E-00	1.2838E-00	1.4223E-00
2.4		1.1059E-00	1.1926E-00	1.3096E-00	1.4618E-00
2.5		1.1148E-00	1.2091E-00	1.3368E-00	1.5036E-00
2.6		1.1241E-00	1.2263E-00	1.3655E-00	1.5478E-00
2.7		1.1338E-00	1.2444E-00	1.3956E-00	1.5946E-00
2.8		1.1439E-00	1.2634E-00	1.4272E-00	1.6439E-00
2.9		1.1544E-00	1.2831E-00	1.4604E-00	1.6960E-00
3.0		1.1653E-00	1.3038E-00	1.4952E-00	1.7509E-00
3.1		1.1767E-00	1.3253E-00	1.5317E-00	1.8087E-00
3.2		1.1885E-00	1.3478E-00	1.5698E-00	1.8695E-00
3.3		1.2007E-00	1.3711E-00	1.6098E-00	1.9336E-00
3.4		1.2134E-00	1.3955E-00	1.6516E-00	2.0009E-00
3.5		1.2265E-00	1.4207E-00	1.6953E-00	2.0718E-00
3.6		1.2401E-00	1.4470E-00	1.7409E-00	2.1462E-00
3.7		1.2542E-00	1.4743E-00	1.7886E-00	2.2244E-00
3.8		1.2687E-00	1.5027E-00	1.8383E-00	2.3066E-00
3.9		1.2838E-00	1.5321E-00	1.8903E-00	2.3929E-00
4.0		1.2993E-00	1.5627E-00	1.9444E-00	2.4835E-00
4.1		1.3153E-00	1.5943E-00	2.0009E-00	2.5786E-00
4.2		1.3318E-00	1.6271E-00	2.0598E-00	2.6784E-00
4.3		1.3488E-00	1.6611E-00	2.1212E-00	2.7831E-00
4.4		1.3663E-00	1.6964E-00	2.1852E-00	2.8930E-00
4.5		1.3844E-00	1.7329E-00	2.2519E-00	3.0082E-00
4.6		1.4030E-00	1.7706E-00	2.3213E-00	3.1291E-00
4.7		1.4222E-00	1.8097E-00	2.3936E-00	3.2559E-00
4.8		1.4419E-00	1.8502E-00	2.4689E-00	3.3889E-00
4.9		1.4623E-00	1.8920E-00	2.5474E-00	3.5284E-00
5.0		1.4831E-00	1.9353E-00	2.6290E-00	3.6746E-00

$P_{-\frac{1}{2}+ib}(\cos \theta)$					
θ	30	35	40	45	
b					
.0	1.0174E-00	1.0238E-00	1.0313E-00	1.0399E-00	
.1	1.0181E-00	1.0247E-00	1.0326E-00	1.0415E-00	
.2	1.0202E-00	1.0276E-00	1.0363E-00	1.0464E-00	
.3	1.0237E-00	1.0324E-00	1.0427E-00	1.0545E-00	
.4	1.0286E-00	1.0392E-00	1.0516E-00	1.0659E-00	
.5	1.0349E-00	1.0479E-00	1.0631E-00	1.0807E-00	
.6	1.0427E-00	1.0586E-00	1.0773E-00	1.0989E-00	
.7	1.0519E-00	1.0713E-00	1.0941E-00	1.1205E-00	
.8	1.0626E-00	1.0861E-00	1.1137E-00	1.1458E-00	
.9	1.0748E-00	1.1029E-00	1.1362E-00	1.1748E-00	
1.0	1.0885E-00	1.1219E-00	1.1615E-00	1.2077E-00	
1.1	1.1038E-00	1.1431E-00	1.1899E-00	1.2446E-00	
1.2	1.1206E-00	1.1666E-00	1.2213E-00	1.2857E-00	
1.3	1.1390E-00	1.1923E-00	1.2560E-00	1.3311E-00	
1.4	1.1591E-00	1.2205E-00	1.2941E-00	1.3811E-00	
1.5	1.1809E-00	1.2511E-00	1.3356E-00	1.4360E-00	
1.6	1.2044E-00	1.2843E-00	1.3808E-00	1.4959E-00	
1.7	1.2297E-00	1.3202E-00	1.4298E-00	1.5613E-00	
1.8	1.2569E-00	1.3588E-00	1.4829E-00	1.6322E-00	
1.9	1.2859E-00	1.4003E-00	1.5401E-00	1.7093E-00	
2.0	1.3169E-00	1.4447E-00	1.6017E-00	1.7926E-00	
2.1	1.3499E-00	1.4923E-00	1.6680E-00	1.8828E-00	
2.2	1.3850E-00	1.5431E-00	1.7391E-00	1.9802E-00	
2.3	1.4223E-00	1.5973E-00	1.8155E-00	2.0852E-00	
2.4	1.4618E-00	1.6550E-00	1.8972E-00	2.1984E-00	
2.5	1.5036E-00	1.7165E-00	1.9848E-00	2.3204E-00	
2.6	1.5478E-00	1.7818E-00	2.0784E-00	2.4517E-00	
2.7	1.5946E-00	1.8512E-00	2.1784E-00	2.5929E-00	
2.8	1.6439E-00	1.9249E-00	2.2853E-00	2.7447E-00	
2.9	1.6960E-00	2.0031E-00	2.3994E-00	2.9080E-00	
3.0	1.7509E-00	2.0861E-00	2.5212E-00	3.0834E-00	
3.1	1.8087E-00	2.1739E-00	2.6512E-00	3.2718E-00	
3.2	1.8695E-00	2.2670E-00	2.7897E-00	3.4742E-00	
3.3	1.9336E-00	2.3656E-00	2.9374E-00	3.6916E-00	
3.4	2.0009E-00	2.4700E-00	3.0949E-00	3.9250E-00	
3.5	2.0718E-00	2.5804E-00	3.2627E-00	4.1755E-00	
3.6	2.1462E-00	2.6972E-00	3.4415E-00	4.4445E-00	
3.7	2.2244E-00	2.8208E-00	3.6320E-00	4.7333E-00	
3.8	2.3066E-00	2.9516E-00	3.8350E-00	5.0432E-00	
3.9	2.3929E-00	3.0898E-00	4.0512E-00	5.3760E-00	
4.0	2.4835E-00	3.2359E-00	4.2814E-00	5.7331E-00	
4.1	2.5786E-00	3.3904E-00	4.5267E-00	6.1165E-00	
4.2	2.6784E-00	3.5537E-00	4.7878E-00	6.5280E-00	
4.3	2.7831E-00	3.7262E-00	5.0660E-00	6.9697E-00	
4.4	2.8930E-00	3.9086E-00	5.3622E-00	7.4439E-00	
4.5	3.0082E-00	4.1014E-00	5.6777E-00	7.9530E-00	
4.6	3.1291E-00	4.3050E-00	6.0137E-00	8.4995E-00	
4.7	3.2559E-00	4.5202E-00	6.3715E-00	9.0863E-00	
4.8	3.3889E-00	4.7476E-00	6.7526E-00	9.7164E-00	
4.9	3.5284E-00	4.9879E-00	7.1585E-00	1.0392E+01	
5.0	3.6746E-00	5.2418E-00	7.5908E-00	1.1119E+01	

$P_{-\frac{1}{2}+ib}(\cos \theta)$					
θ	45	50	55	60	
b					
.0	1.0399E-00	1.0497E-00	1.0608E-00	1.0731E-00	
.1	1.0415E-00	1.0517E-00	1.0632E-00	1.0761E-00	
.2	1.0464E-00	1.0578E-00	1.0707E-00	1.0851E-00	
.3	1.0545E-00	1.0679E-00	1.0831E-00	1.1001E-00	
.4	1.0659E-00	1.0822E-00	1.1006E-00	1.1213E-00	
.5	1.0807E-00	1.1007E-00	1.1234E-00	1.1489E-00	
.6	1.0989E-00	1.1235E-00	1.1515E-00	1.1830E-00	
.7	1.1205E-00	1.1508E-00	1.1852E-00	1.2241E-00	
.8	1.1458E-00	1.1827E-00	1.2247E-00	1.2723E-00	
.9	1.1748E-00	1.2194E-00	1.2703E-00	1.3281E-00	
1.0	1.2077E-00	1.2611E-00	1.3223E-00	1.3921E-00	
1.1	1.2446E-00	1.3080E-00	1.3810E-00	1.4646E-00	
1.2	1.2857E-00	1.3605E-00	1.4470E-00	1.5464E-00	
1.3	1.3311E-00	1.4188E-00	1.5205E-00	1.6381E-00	
1.4	1.3811E-00	1.4832E-00	1.6023E-00	1.7404E-00	
1.5	1.4360E-00	1.5542E-00	1.6927E-00	1.8544E-00	
1.6	1.4959E-00	1.6322E-00	1.7926E-00	1.9808E-00	
1.7	1.5613E-00	1.7176E-00	1.9026E-00	2.1209E-00	
1.8	1.6322E-00	1.8108E-00	2.0234E-00	2.2757E-00	
1.9	1.7093E-00	1.9126E-00	2.1560E-00	2.4467E-00	
2.0	1.7926E-00	2.0234E-00	2.3013E-00	2.6352E-00	
2.1	1.8828E-00	2.1439E-00	2.4603E-00	2.8430E-00	
2.2	1.9802E-00	2.2749E-00	2.6342E-00	3.0718E-00	
2.3	2.0852E-00	2.4171E-00	2.8243E-00	3.3236E-00	
2.4	2.1984E-00	2.5713E-00	3.0320E-00	3.6006E-00	
2.5	2.3204E-00	2.7386E-00	3.2587E-00	3.9053E-00	
2.6	2.4517E-00	2.9198E-00	3.5061E-00	4.2403E-00	
2.7	2.5929E-00	3.1162E-00	3.7761E-00	4.6086E-00	
2.8	2.7447E-00	3.3288E-00	4.0707E-00	5.0134E-00	
2.9	2.9080E-00	3.5590E-00	4.3919E-00	5.4584E-00	
3.0	3.0834E-00	3.8081E-00	4.7423E-00	5.9474E-00	
3.1	3.2718E-00	4.0778E-00	5.1243E-00	6.4850E-00	
3.2	3.4742E-00	4.3695E-00	5.5410E-00	7.0758E-00	
3.3	3.6916E-00	4.6852E-00	5.9953E-00	7.7253E-00	
3.4	3.9250E-00	5.0268E-00	6.4907E-00	8.4393E-00	
3.5	4.1755E-00	5.3964E-00	7.0310E-00	9.2242E-00	
3.6	4.4445E-00	5.7962E-00	7.6203E-00	1.0087E+01	
3.7	4.7333E-00	6.2288E-00	8.2629E-00	1.1036E+01	
3.8	5.0432E-00	6.6968E-00	8.9639E-00	1.2079E+01	
3.9	5.3760E-00	7.2032E-00	9.7285E-00	1.3227E+01	
4.0	5.7331E-00	7.7511E-00	1.0562E+01	1.4490E+01	
4.1	6.1165E-00	8.3440E-00	1.1472E+01	1.5879E+01	
4.2	6.5280E-00	8.9856E-00	1.2465E+01	1.7407E+01	
4.3	6.9697E-00	9.6799E-00	1.3549E+01	1.9089E+01	
4.4	7.4439E-00	1.0431E+01	1.4731E+01	2.0940E+01	
4.5	7.9530E-00	1.1244E+01	1.6021E+01	2.2977E+01	
4.6	8.4995E-00	1.2125E+01	1.7430E+01	2.5220E+01	
4.7	9.0863E-00	1.3078E+01	1.8968E+01	2.7689E+01	
4.8	9.7164E-00	1.4110E+01	2.0647E+01	3.0407E+01	
4.9	1.0392E+01	1.5227E+01	2.2480E+01	3.3401E+01	
5.0	1.1119E+01	1.6437E+01	2.4482E+01	3.6697E+01	

$P_{-\frac{1}{2}+ib}(\cos \theta)$					
b	θ	60	65	70	75
.0		1.0731E-00	1.0869E-00	1.1021E-00	1.1189E-00
.1		1.0761E-00	1.0904E-00	1.1063E-00	1.1238E-00
.2		1.0851E-00	1.1011E-00	1.1189E-00	1.1385E-00
.3		1.1001E-00	1.1190E-00	1.1401E-00	1.1633E-00
.4		1.1213E-00	1.1444E-00	1.1700E-00	1.1985E-00
.5		1.1489E-00	1.1774E-00	1.2091E-00	1.2445E-00
.6		1.1830E-00	1.2184E-00	1.2578E-00	1.3018E-00
.7		1.2241E-00	1.2677E-00	1.3167E-00	1.3714E-00
.8		1.2723E-00	1.3260E-00	1.3863E-00	1.4540E-00
.9		1.3281E-00	1.3936E-00	1.4675E-00	1.5508E-00
1.0		1.3921E-00	1.4714E-00	1.5613E-00	1.6630E-00
1.1		1.4646E-00	1.5600E-00	1.6687E-00	1.7922E-00
1.2		1.5464E-00	1.6604E-00	1.7908E-00	1.9399E-00
1.3		1.6381E-00	1.7735E-00	1.9293E-00	2.1083E-00
1.4		1.7404E-00	1.9005E-00	2.0856E-00	2.2995E-00
1.5		1.8544E-00	2.0426E-00	2.2615E-00	2.5161E-00
1.6		1.9808E-00	2.2012E-00	2.4592E-00	2.7610E-00
1.7		2.1209E-00	2.3780E-00	2.6809E-00	3.0375E-00
1.8		2.2757E-00	2.5748E-00	2.9292E-00	3.3495E-00
1.9		2.4467E-00	2.7934E-00	3.2071E-00	3.7010E-00
2.0		2.6352E-00	3.0362E-00	3.5179E-00	4.0971E-00
2.1		2.8430E-00	3.3057E-00	3.8653E-00	4.5430E-00
2.2		3.0718E-00	3.6045E-00	4.2534E-00	5.0451E-00
2.3		3.3236E-00	3.9357E-00	4.6869E-00	5.6102E-00
2.4		3.6006E-00	4.3029E-00	5.1710E-00	6.2462E-00
2.5		3.9053E-00	4.7097E-00	5.7116E-00	6.9621E-00
2.6		4.2403E-00	5.1604E-00	6.3153E-00	7.7678E-00
2.7		4.6086E-00	5.6598E-00	6.9894E-00	8.6749E-00
2.8		5.0134E-00	6.2130E-00	7.7422E-00	9.6961E-00
2.9		5.4584E-00	6.8259E-00	8.5829E-00	1.0845E+01
3.0		5.9474E-00	7.5049E-00	9.5220E-00	1.2140E+01
3.1		6.4850E-00	8.2572E-00	1.0570E+01	1.3599E+01
3.2		7.0758E-00	9.0909E-00	1.1742E+01	1.5242E+01
3.3		7.7253E-00	1.0014E+01	1.3052E+01	1.7094E+01
3.4		8.4393E-00	1.1038E+01	1.4516E+01	1.9180E+01
3.5		9.2242E-00	1.2173E+01	1.6152E+01	2.1533E+01
3.6		1.0087E+01	1.3432E+01	1.7980E+01	2.4185E+01
3.7		1.1036E+01	1.4827E+01	2.0025E+01	2.7175E+01
3.8		1.2079E+01	1.6374E+01	2.2312E+01	3.0548E+01
3.9		1.3227E+01	1.8090E+01	2.4870E+01	3.4352E+01
4.0		1.4490E+01	1.9994E+01	2.7732E+01	3.8645E+01
4.1		1.5879E+01	2.2106E+01	3.0933E+01	4.3489E+01
4.2		1.7407E+01	2.4449E+01	3.4516E+01	4.8956E+01
4.3		1.9089E+01	2.7050E+01	3.8527E+01	5.5128E+01
4.4		2.0940E+01	2.9936E+01	4.3015E+01	6.2096E+01
4.5		2.2977E+01	3.3140E+01	4.8041E+01	6.9965E+01
4.6		2.5220E+01	3.6697E+01	5.3669E+01	7.8851E+01
4.7		2.7689E+01	4.0647E+01	5.9971E+01	8.8890E+01
4.8		3.0407E+01	4.5033E+01	6.7030E+01	1.0023E+02
4.9		3.3401E+01	4.9904E+01	7.4937E+01	1.1304E+02
5.0		3.6697E+01	5.5316E+01	8.3797E+01	1.2752E+02

	$P_{-\frac{1}{2}+ib}(\cos \theta)$			
θ	75	80	85	90
b				
.0	1.1189E-00	1.1374E-00	1.1578E-00	1.1803E-00
.1	1.1238E-00	1.1431E-00	1.1644E-00	1.1878E-00
.2	1.1385E-00	1.1602E-00	1.1841E-00	1.2105E-00
.3	1.1633E-00	1.1891E-00	1.2174E-00	1.2487E-00
.4	1.1985E-00	1.2300E-00	1.2648E-00	1.3033E-00
.5	1.2445E-00	1.2836E-00	1.3271E-00	1.3752E-00
.6	1.3018E-00	1.3508E-00	1.4053E-00	1.4658E-00
.7	1.3714E-00	1.4325E-00	1.5007E-00	1.5768E-00
.8	1.4540E-00	1.5299E-00	1.6150E-00	1.7103E-00
.9	1.5508E-00	1.6446E-00	1.7501E-00	1.8689E-00
1.0	1.6630E-00	1.7781E-00	1.9083E-00	2.0556E-00
1.1	1.7922E-00	1.9326E-00	2.0922E-00	2.2739E-00
1.2	1.9399E-00	2.1103E-00	2.3051E-00	2.5281E-00
1.3	2.1083E-00	2.3140E-00	2.5506E-00	2.8231E-00
1.4	2.2995E-00	2.5468E-00	2.8330E-00	3.1646E-00
1.5	2.5161E-00	2.8122E-00	3.1571E-00	3.5595E-00
1.6	2.7610E-00	3.1144E-00	3.5287E-00	4.0154E-00
1.7	3.0375E-00	3.4580E-00	3.9543E-00	4.5413E-00
1.8	3.3495E-00	3.8483E-00	4.4413E-00	5.1478E-00
1.9	3.7010E-00	4.2914E-00	4.9985E-00	5.8470E-00
2.0	4.0971E-00	4.7944E-00	5.6357E-00	6.6529E-00
2.1	4.5430E-00	5.3651E-00	6.3643E-00	7.5819E-00
2.2	5.0451E-00	6.0126E-00	7.1976E-00	8.6528E-00
2.3	5.6102E-00	6.7471E-00	8.1505E-00	9.8874E-00
2.4	6.2462E-00	7.5805E-00	9.2404E-00	1.1311E+01
2.5	6.9621E-00	8.5260E-00	1.0487E+01	1.2953E+01
2.6	7.7678E-00	9.5990E-00	1.1913E+01	1.4847E+01
2.7	8.6749E-00	1.0816E+01	1.3545E+01	1.7033E+01
2.8	9.6961E-00	1.2199E+01	1.5414E+01	1.9557E+01
2.9	1.0845E+01	1.3768E+01	1.7553E+01	2.2470E+01
3.0	1.2140E+01	1.5550E+01	2.0003E+01	2.5835E+01
3.1	1.3599E+01	1.7574E+01	2.2809E+01	2.9722E+01
3.2	1.5242E+01	1.9874E+01	2.6023E+01	3.4213E+01
3.3	1.7094E+01	2.2487E+01	2.9708E+01	3.9405E+01
3.4	1.9180E+01	2.5458E+01	3.3931E+01	4.5406E+01
3.5	2.1533E+01	2.8834E+01	3.8773E+01	5.2347E+01
3.6	2.4185E+01	3.2673E+01	4.4326E+01	6.0374E+01
3.7	2.7175E+01	3.7039E+01	5.0695E+01	6.9662E+01
3.8	3.0548E+01	4.2006E+01	5.8002E+01	8.0410E+01
3.9	3.4352E+01	4.7657E+01	6.6388E+01	9.2850E+01
4.0	3.8645E+01	5.4087E+01	7.6013E+01	1.0725E+02
4.1	4.3489E+01	6.1406E+01	8.7063E+01	1.2392E+02
4.2	4.8956E+01	6.9738E+01	9.9750E+01	1.4324E+02
4.3	5.5128E+01	7.9224E+01	1.1432E+02	1.6561E+02
4.4	6.2096E+01	9.0027E+01	1.3105E+02	1.9154E+02
4.5	6.9965E+01	1.0233E+02	1.5028E+02	2.2158E+02
4.6	7.8851E+01	1.1634E+02	1.7238E+02	2.5640E+02
4.7	8.8890E+01	1.3231E+02	1.9777E+02	2.9676E+02
4.8	1.0023E+02	1.5051E+02	2.2695E+02	3.4356E+02
4.9	1.1304E+02	1.7125E+02	2.6050E+02	3.9782E+02
5.0	1.2752E+02	1.9490E+02	2.9908E+02	4.6076E+02

$P_{-\frac{1}{2}+ib}(\cos \theta)$				
θ	90	95	100	105
b				
.0	1.1803E-00	1.2050E-00	1.2322E-00	1.2622E-00
.1	1.1878E-00	1.2136E-00	1.2419E-00	1.2732E-00
.2	1.2105E-00	1.2395E-00	1.2715E-00	1.3068E-00
.3	1.2487E-00	1.2833E-00	1.3215E-00	1.3637E-00
.4	1.3033E-00	1.3459E-00	1.3930E-00	1.4453E-00
.5	1.3752E-00	1.4286E-00	1.4879E-00	1.5538E-00
.6	1.4658E-00	1.5332E-00	1.6083E-00	1.6920E-00
.7	1.5768E-00	1.6619E-00	1.7570E-00	1.8635E-00
.8	1.7103E-00	1.8173E-00	1.9375E-00	2.0728E-00
.9	1.8689E-00	2.0028E-00	2.1541E-00	2.3252E-00
1.0	2.0556E-00	2.2224E-00	2.4119E-00	2.6275E-00
1.1	2.2739E-00	2.4808E-00	2.7172E-00	2.9877E-00
1.2	2.5281E-00	2.7836E-00	3.0772E-00	3.4153E-00
1.3	2.8231E-00	3.1373E-00	3.5006E-00	3.9218E-00
1.4	3.1646E-00	3.5497E-00	3.9978E-00	4.5209E-00
1.5	3.5595E-00	4.0298E-00	4.5809E-00	5.2288E-00
1.6	4.0154E-00	4.5882E-00	5.2643E-00	6.0648E-00
1.7	4.5413E-00	5.2373E-00	6.0648E-00	7.0518E-00
1.8	5.1478E-00	5.9916E-00	7.0024E-00	8.2170E-00
1.9	5.8470E-00	6.8681E-00	8.1004E-00	9.5928E-00
2.0	6.6529E-00	7.8864E-00	9.3866E-00	1.1217E+01
2.1	7.5819E-00	9.0697E-00	1.0893E+01	1.3136E+01
2.2	8.6528E-00	1.0444E+01	1.2659E+01	1.5404E+01
2.3	9.8874E-00	1.2043E+01	1.4728E+01	1.8084E+01
2.4	1.1311E+01	1.3902E+01	1.7155E+01	2.1254E+01
2.5	1.2953E+01	1.6063E+01	2.0001E+01	2.5002E+01
2.6	1.4847E+01	1.8578E+01	2.3340E+01	2.9438E+01
2.7	1.7033E+01	2.1505E+01	2.7259E+01	3.4688E+01
2.8	1.9557E+01	2.4912E+01	3.1859E+01	4.0905E+01
2.9	2.2470E+01	2.8879E+01	3.7263E+01	4.8270E+01
3.0	2.5835E+01	3.3500E+01	4.3610E+01	5.6995E+01
3.1	2.9722E+01	3.8884E+01	5.1069E+01	6.7338E+01
3.2	3.4213E+01	4.5158E+01	5.9837E+01	7.9600E+01
3.3	3.9405E+01	5.2472E+01	7.0147E+01	9.4143E+01
3.4	4.5406E+01	6.1002E+01	8.2272E+01	1.1139E+02
3.5	5.2347E+01	7.0950E+01	9.6538E+01	1.3187E+02
3.6	6.0374E+01	8.2556E+01	1.1332E+02	1.5617E+02
3.7	6.9662E+01	9.6100E+01	1.3308E+02	1.8502E+02
3.8	8.0410E+01	1.1190E+02	1.5635E+02	2.1929E+02
3.9	9.2850E+01	1.3036E+02	1.8374E+02	2.6000E+02
4.0	1.0725E+02	1.5191E+02	2.1601E+02	3.0837E+02
4.1	1.2392E+02	1.7709E+02	2.5404E+02	3.6585E+02
4.2	1.4324E+02	2.0650E+02	2.9884E+02	4.3417E+02
4.3	1.6561E+02	2.4086E+02	3.5165E+02	5.1540E+02
4.4	1.9154E+02	2.8102E+02	4.1390E+02	6.1200E+02
4.5	2.2158E+02	3.2797E+02	4.8731E+02	7.2690E+02
4.6	2.5640E+02	3.8285E+02	5.7387E+02	8.6357E+02
4.7	2.9676E+02	4.4703E+02	6.7598E+02	1.0261E+03
4.8	3.4356E+02	5.2208E+02	7.9644E+02	1.2197E+03
4.9	3.9782E+02	6.0988E+02	9.3857E+02	1.4500E+03
5.0	4.6076E+02	7.1259E+02	1.1063E+03	1.7242E+03

		$P_{-\frac{1}{2}+ib}(\cos \theta)$				
		θ	105	110	115	120
		b				
	.0		1.2622E-00	1.2953E-00	1.3320E-00	1.3728E-00
	.1		1.2732E-00	1.3078E-00	1.3462E-00	1.3889E-00
	.2		1.3068E-00	1.3459E-00	1.3892E-00	1.4376E-00
	.3		1.3637E-00	1.4104E-00	1.4625E-00	1.5205E-00
	.4		1.4453E-00	1.5034E-00	1.5681E-00	1.6405E-00
	.5		1.5538E-00	1.6273E-00	1.7095E-00	1.8017E-00
	.6		1.6920E-00	1.7858E-00	1.8910E-00	2.0095E-00
	.7		1.8635E-00	1.9833E-00	2.1183E-00	2.2711E-00
	.8		2.0728E-00	2.2255E-00	2.3985E-00	2.5954E-00
	.9		2.3252E-00	2.5194E-00	2.7406E-00	2.9937E-00
1.	0		2.6275E-00	2.8736E-00	3.1554E-00	3.4798E-00
1.	1		2.9877E-00	3.2983E-00	3.6563E-00	4.0708E-00
1.	2		3.4153E-00	3.8060E-00	4.2593E-00	4.7875E-00
1.	3		3.9218E-00	4.4118E-00	4.9840E-00	5.6554E-00
1.	4		4.5209E-00	5.1336E-00	5.8541E-00	6.7055E-00
1.	5		5.2288E-00	5.9930E-00	6.8983E-00	7.9757E-00
1.	6		6.0648E-00	7.0159E-00	8.1509E-00	9.5118E-00
1.	7		7.0518E-00	8.2333E-00	9.6538E-00	1.1369E+01
1.	8		8.2170E-00	9.6822E-00	1.1457E+01	1.3618E+01
1.	9		9.5928E-00	1.1406E+01	1.3621E+01	1.6339E+01
2.	0		1.1217E+01	1.3460E+01	1.6220E+01	1.9634E+01
2.	1		1.3136E+01	1.5906E+01	1.9342E+01	2.3625E+01
2.	2		1.5404E+01	1.8821E+01	2.3094E+01	2.8462E+01
2.	3		1.8084E+01	2.2296E+01	2.7604E+01	3.4328E+01
2.	4		2.1254E+01	2.6439E+01	3.3028E+01	4.1443E+01
2.	5		2.5002E+01	3.1381E+01	3.9554E+01	5.0077E+01
2.	6		2.9438E+01	3.7280E+01	4.7410E+01	6.0560E+01
2.	7		3.4688E+01	4.4322E+01	5.6870E+01	7.3294E+01
2.	8		4.0905E+01	5.2733E+01	6.8265E+01	8.8765E+01
2.	9		4.8270E+01	6.2781E+01	8.1997E+01	1.0757E+02
3.	0		5.6995E+01	7.4790E+01	9.8552E+01	1.3044E+02
3.	1		6.7338E+01	8.9147E+01	1.1851E+02	1.5826E+02
3.	2		7.9600E+01	1.0631E+02	1.4259E+02	1.9211E+02
3.	3		9.4143E+01	1.2685E+02	1.7166E+02	2.3332E+02
3.	4		1.1139E+02	1.5143E+02	2.0673E+02	2.8349E+02
3.	5		1.3187E+02	1.8086E+02	2.4909E+02	3.4460E+02
3.	6		1.5617E+02	2.1609E+02	3.0025E+02	4.1905E+02
3.	7		1.8502E+02	2.5828E+02	3.6205E+02	5.0978E+02
3.	8		2.1929E+02	3.0882E+02	4.3673E+02	6.2038E+02
3.	9		2.6000E+02	3.6939E+02	5.2700E+02	7.5522E+02
4.	0		3.0837E+02	4.4197E+02	6.3613E+02	9.1968E+02
4.	1		3.6585E+02	5.2899E+02	7.6810E+02	1.1202E+03
4.	2		4.3417E+02	6.3333E+02	9.2772E+02	1.3650E+03
4.	3		5.1540E+02	7.5846E+02	1.1208E+03	1.6637E+03
4.	4		6.1200E+02	9.0856E+02	1.3545E+03	2.0283E+03
4.	5		7.2690E+02	1.0886E+03	1.6373E+03	2.4735E+03
4.	6		8.6357E+02	1.3047E+03	1.9796E+03	3.0170E+03
4.	7		1.0261E+03	1.5641E+03	2.3940E+03	3.6809E+03
4.	8		1.2197E+03	1.8754E+03	2.8959E+03	4.4918E+03
4.	9		1.4500E+03	2.2493E+03	3.5038E+03	5.4825E+03
5.	0		1.7242E+03	2.6981E+03	4.2400E+03	6.6931E+03

$P_{-\frac{1}{2}+i\nu}(\cos \theta)$				
θ	120	125	130	135
b				
.0	1.3728E-00	1.4185E-00	1.4698E-00	1.5279E-00
.1	1.3889E-00	1.4366E-00	1.4903E-00	1.5511E-00
.2	1.4376E-00	1.4916E-00	1.5525E-00	1.6216E-00
.3	1.5205E-00	1.5856E-00	1.6591E-00	1.7426E-00
.4	1.6405E-00	1.7220E-00	1.8141E-00	1.9192E-00
.5	1.8017E-00	1.9058E-00	2.0239E-00	2.1591E-00
.6	2.0095E-00	2.1438E-00	2.2969E-00	2.4728E-00
.7	2.2711E-00	2.4450E-00	2.6441E-00	2.8739E-00
.8	2.5954E-00	2.8205E-00	3.0797E-00	3.3803E-00
.9	2.9937E-00	3.2847E-00	3.6215E-00	4.0144E-00
1.0	3.4798E-00	3.8550E-00	4.2919E-00	4.8046E-00
1.1	4.0708E-00	4.5533E-00	5.1187E-00	5.7864E-00
1.2	4.7875E-00	5.4065E-00	6.1365E-00	7.0045E-00
1.3	5.6554E-00	6.4476E-00	7.3883E-00	8.5144E-00
1.4	6.7055E-00	7.7172E-00	8.9271E-00	1.0385E+01
1.5	7.9757E-00	9.2652E-00	1.0818E+01	1.2705E+01
1.6	9.5118E-00	1.1152E+01	1.3144E+01	1.5580E+01
1.7	1.1369E+01	1.3454E+01	1.6004E+01	1.9147E+01
1.8	1.3618E+01	1.6263E+01	1.9523E+01	2.3573E+01
1.9	1.6339E+01	1.9692E+01	2.3856E+01	2.9069E+01
2.0	1.9634E+01	2.3878E+01	2.9192E+01	3.5896E+01
2.1	2.3625E+01	2.8994E+01	3.5768E+01	4.4382E+01
2.2	2.8462E+01	3.5246E+01	4.3875E+01	5.4936E+01
2.3	3.4328E+01	4.2893E+01	5.3876E+01	6.8069E+01
2.4	4.1443E+01	5.2249E+01	6.6220E+01	8.4418E+01
2.5	5.0077E+01	6.3703E+01	8.1461E+01	1.0478E+02
2.6	6.0560E+01	7.7729E+01	1.0028E+02	1.3016E+02
2.7	7.3294E+01	9.4913E+01	1.2355E+02	1.6179E+02
2.8	8.8765E+01	1.1597E+02	1.5232E+02	2.0125E+02
2.9	1.0757E+02	1.4180E+02	1.8791E+02	2.5049E+02
3.0	1.3044E+02	1.7348E+02	2.3194E+02	3.1194E+02
3.1	1.5826E+02	2.1235E+02	2.8644E+02	3.8868E+02
3.2	1.9211E+02	2.6006E+02	3.5392E+02	4.8453E+02
3.3	2.3332E+02	3.1865E+02	4.3751E+02	6.0430E+02
3.4	2.8349E+02	3.9061E+02	5.4108E+02	7.5400E+02
3.5	3.4460E+02	4.7902E+02	6.6944E+02	9.4116E+02
3.6	4.1905E+02	5.8768E+02	8.2858E+02	1.1752E+03
3.7	5.0978E+02	7.2126E+02	1.0259E+03	1.4680E+03
3.8	6.2038E+02	8.8551E+02	1.2707E+03	1.8344E+03
3.9	7.5522E+02	1.0875E+03	1.5744E+03	2.2931E+03
4.0	9.1968E+02	1.3360E+03	1.9513E+03	2.8672E+03
4.1	1.1202E+03	1.6418E+03	2.4192E+03	3.5862E+03
4.2	1.3650E+03	2.0183E+03	3.0001E+03	4.4868E+03
4.3	1.6637E+03	2.4817E+03	3.7216E+03	5.6150E+03
4.4	2.0283E+03	3.0522E+03	4.6177E+03	7.0286E+03
4.5	2.4735E+03	3.7549E+03	5.7310E+03	8.8003E+03
4.6	3.0170E+03	4.6205E+03	7.1144E+03	1.1021E+04
4.7	3.6809E+03	5.6869E+03	8.8337E+03	1.3805E+04
4.8	4.4918E+03	7.0010E+03	1.0970E+04	1.7297E+04
4.9	5.4825E+03	8.6205E+03	1.3627E+04	2.1675E+04
5.0	6.6931E+03	1.0616E+04	1.6931E+04	2.7168E+04

		$P_{-\frac{1}{2}+ib}(\cos \theta)$				
		θ	135	140	145	150
		b				
	.0		1.5279E-00	1.5944E-00	1.6714E-00	1.7622E-00
	.1		1.5511E-00	1.6207E-00	1.7014E-00	1.7964E-00
	.2		1.6216E-00	1.7008E-00	1.7927E-00	1.9011E-00
	.3		1.7426E-00	1.8385E-00	1.9500E-00	2.0818E-00
	.4		1.9192E-00	2.0402E-00	2.1812E-00	2.3483E-00
	.5		2.1591E-00	2.3153E-00	2.4979E-00	2.7152E-00
	.6		2.4728E-00	2.6767E-00	2.9163E-00	3.2025E-00
	.7		2.8739E-00	3.1418E-00	3.4578E-00	3.8369E-00
	.8		3.3803E-00	3.7325E-00	4.1502E-00	4.6538E-00
	.9		4.0144E-00	4.4773E-00	5.0293E-00	5.6986E-00
1.0			4.8046E-00	5.4121E-00	6.1412E-00	7.0301E-00
1.1			5.7864E-00	6.5827E-00	7.5442E-00	8.7239E-00
1.2			7.0045E-00	8.0464E-00	9.3127E-00	1.0876E+01
1.3			8.5144E-00	9.8756E-00	1.1541E+01	1.3611E+01
1.4			1.0385E+01	1.2161E+01	1.4349E+01	1.7087E+01
1.5			1.2705E+01	1.5018E+01	1.7888E+01	2.1507E+01
1.6			1.5580E+01	1.8590E+01	2.2352E+01	2.7129E+01
1.7			1.9147E+01	2.3058E+01	2.7985E+01	3.4286E+01
1.8			2.3573E+01	2.8651E+01	3.5096E+01	4.3401E+01
1.9			2.9069E+01	3.5656E+01	4.4080E+01	5.5019E+01
2.0			3.5896E+01	4.4434E+01	5.5438E+01	6.9835E+01
2.1			4.4382E+01	5.5440E+01	6.9803E+01	8.8741E+01
2.2			5.4936E+01	6.9248E+01	8.7984E+01	1.1288E+02
2.3			6.8069E+01	8.6580E+01	1.1100E+02	1.4372E+02
2.4			8.4418E+01	1.0834E+02	1.4017E+02	1.8314E+02
2.5			1.0478E+02	1.3569E+02	1.7714E+02	2.3355E+02
2.6			1.3016E+02	1.7008E+02	2.2403E+02	2.9805E+02
2.7			1.6179E+02	2.1332E+02	2.8353E+02	3.8061E+02
2.8			2.0125E+02	2.6772E+02	3.5904E+02	4.8634E+02
2.9			2.5049E+02	3.3620E+02	4.5493E+02	6.2179E+02
3.0			3.1194E+02	4.2243E+02	5.7674E+02	7.9537E+02
3.1			3.8868E+02	5.3105E+02	7.3154E+02	1.0179E+03
3.2			4.8453E+02	6.6793E+02	9.2832E+02	1.3033E+03
3.3			6.0430E+02	8.4046E+02	1.1785E+03	1.6694E+03
3.4			7.5400E+02	1.0580E+03	1.4968E+03	2.1393E+03
3.5			9.4116E+02	1.3323E+03	1.9018E+03	2.7426E+03
3.6			1.1752E+03	1.6785E+03	2.4173E+03	3.5171E+03
3.7			1.4680E+03	2.1154E+03	3.0736E+03	4.5120E+03
3.8			1.8344E+03	2.6669E+03	3.9094E+03	5.7901E+03
3.9			2.2931E+03	3.3632E+03	4.9741E+03	7.4325E+03
4.0			2.8672E+03	4.2427E+03	6.3305E+03	9.5437E+03
4.1			3.5862E+03	5.3536E+03	8.0591E+03	1.2258E+04
4.2			4.4868E+03	6.7573E+03	1.0262E+04	1.5748E+04
4.3			5.6150E+03	8.5314E+03	1.3071E+04	2.0237E+04
4.4			7.0286E+03	1.0773E+04	1.6654E+04	2.6013E+04
4.5			8.8003E+03	1.3609E+04	2.1223E+04	3.3444E+04
4.6			1.1021E+04	1.7194E+04	2.7051E+04	4.3007E+04
4.7			1.3805E+04	2.1728E+04	3.4488E+04	5.5318E+04
4.8			1.7297E+04	2.7464E+04	4.3979E+04	7.1166E+04
4.9			2.1675E+04	3.4721E+04	5.6092E+04	9.1572E+04
5.0			2.7168E+04	4.3905E+04	7.1555E+04	1.1785E+05

$P_{-\frac{1}{2}+ib}(\cos \theta)$					
b	θ	150	155	160	165
.0		1.7622E-00	1.8714E-00	2.0075E-00	2.1854E-00
.1		1.7964E-00	1.9110E-00	2.0536E-00	2.2402E-00
.2		1.9011E-00	2.0319E-00	2.1949E-00	2.4084E-00
.3		2.0818E-00	2.2411E-00	2.4401E-00	2.7012E-00
.4		2.3483E-00	2.5509E-00	2.8046E-00	3.1383E-00
.5		2.7152E-00	2.9794E-00	3.3113E-00	3.7492E-00
.6		3.2025E-00	3.5518E-00	3.9922E-00	4.5754E-00
.7		3.8369E-00	4.3019E-00	4.8906E-00	5.6735E-00
.8		4.6538E-00	5.2745E-00	6.0641E-00	7.1189E-00
.9		5.6986E-00	6.5279E-00	7.5885E-00	9.0120E-00
1.0		7.0301E-00	8.1381E-00	9.5628E-00	1.1485E+01
1.1		8.7239E-00	1.0203E+01	1.2116E+01	1.4712E+01
1.2		1.0876E+01	1.2849E+01	1.5417E+01	1.8921E+01
1.3		1.3611E+01	1.6241E+01	1.9685E+01	2.4413E+01
1.4		1.7087E+01	2.0589E+01	2.5206E+01	3.1583E+01
1.5		2.1507E+01	2.6167E+01	3.2350E+01	4.0947E+01
1.6		2.7129E+01	3.3324E+01	4.1601E+01	5.3185E+01
1.7		3.4286E+01	4.2516E+01	5.3590E+01	6.9191E+01
1.8		4.3401E+01	5.4328E+01	6.9135E+01	9.0140E+01
1.9		5.5019E+01	6.9517E+01	8.9307E+01	1.1757E+02
2.0		6.9835E+01	8.9062E+01	1.1549E+02	1.5352E+02
2.1		8.8741E+01	1.1422E+02	1.4952E+02	2.0066E+02
2.2		1.1288E+02	1.4664E+02	1.9375E+02	2.6250E+02
2.3		1.4372E+02	1.8842E+02	2.5128E+02	3.4368E+02
2.4		1.8314E+02	2.4231E+02	3.2615E+02	4.5029E+02
2.5		2.3355E+02	3.1184E+02	4.2362E+02	5.9038E+02
2.6		2.9805E+02	4.0160E+02	5.5058E+02	7.7452E+02
2.7		3.8061E+02	5.1751E+02	7.1603E+02	1.0166E+03
2.8		4.8634E+02	6.6728E+02	9.3173E+02	1.3352E+03
2.9		6.2179E+02	8.6086E+02	1.2130E+03	1.7545E+03
3.0		7.9537E+02	1.1111E+03	1.5800E+03	2.3065E+03
3.1		1.0179E+03	1.4349E+03	2.0590E+03	3.0335E+03
3.2		1.3033E+03	1.8538E+03	2.6843E+03	3.9913E+03
3.3		1.6694E+03	2.3960E+03	3.5009E+03	5.2534E+03
3.4		2.1393E+03	3.0981E+03	4.5678E+03	6.9173E+03
3.5		2.7425E+03	4.0073E+03	5.9619E+03	9.1111E+03
3.6		3.5171E+03	5.1852E+03	7.7840E+03	1.2004E+04
3.7		4.5119E+03	6.7116E+03	1.0166E+04	1.5822E+04
3.8		5.7901E+03	8.6900E+03	1.3282E+04	2.0859E+04
3.9		7.4325E+03	1.1255E+04	1.7357E+04	2.7507E+04
4.0		9.5437E+03	1.4581E+04	2.2689E+04	3.6285E+04
4.1		1.2257E+04	1.8895E+04	2.9667E+04	4.7875E+04
4.2		1.5748E+04	2.4492E+04	3.8800E+04	6.3181E+04
4.3		2.0237E+04	3.1755E+04	5.0758E+04	8.3401E+04
4.4		2.6012E+04	4.1182E+04	6.6416E+04	1.1011E+05
4.5		3.3444E+04	5.3419E+04	8.6922E+04	1.4542E+05
4.6		4.3007E+04	6.9306E+04	1.1378E+05	1.9207E+05
4.7		5.5317E+04	8.9938E+04	1.4897E+05	2.5375E+05
4.8		7.1165E+04	1.1673E+05	1.9509E+05	3.3530E+05
4.9		9.1571E+04	1.5154E+05	2.5553E+05	4.4313E+05
5.0		1.1785E+05	1.9676E+05	3.3475E+05	5.8574E+05

$P_{-\frac{1}{2}+i b}(\cos \theta)$				
θ	165	170	175	180
b				
.0	2.1854E-00	2.4393E-00	2.8776E-00	8
.1	2.2402E-00	2.5067E-00	2.9667E-00	8
.2	2.4084E-00	2.7135E-00	3.2408E-00	8
.3	2.7012E-00	3.0749E-00	3.7215E-00	8
.4	3.1383E-00	3.6169E-00	4.4466E-00	8
.5	3.7492E-00	4.3790E-00	5.4733E-00	8
.6	4.5754E-00	5.4169E-00	6.8831E-00	8
.7	5.6735E-00	6.8072E-00	8.7885E-00	8
.8	7.1189E-00	8.6527E-00	1.1342E+01	8
.9	9.0120E-00	1.1091E+01	1.4751E+01	8
1.0	1.1485E+01	1.4306E+01	1.9293E+01	8
1.1	1.4712E+01	1.8541E+01	2.5339E+01	8
1.2	1.8921E+01	2.4118E+01	3.3386E+01	8
1.3	2.4413E+01	3.1464E+01	4.4101E+01	8
1.4	3.1583E+01	4.1147E+01	5.8375E+01	8
1.5	4.0947E+01	5.3917E+01	7.7401E+01	8
1.6	5.3185E+01	7.0769E+01	1.0277E+02	8
1.7	6.9191E+01	9.3022E+01	1.3664E+02	8
1.8	9.0140E+01	1.2242E+02	1.8185E+02	8
1.9	1.1757E+02	1.6131E+02	2.4227E+02	8
2.0	1.5352E+02	2.1275E+02	3.2304E+02	8
2.1	2.0066E+02	2.8084E+02	4.3106E+02	8
2.2	2.6250E+02	3.7104E+02	5.7561E+02	8
2.3	3.4368E+02	4.9056E+02	7.6911E+02	8
2.4	4.5029E+02	6.4901E+02	1.0282E+03	8
2.5	5.9038E+02	8.5919E+02	1.3755E+03	8
2.6	7.7452E+02	1.1380E+03	1.8408E+03	8
2.7	1.0166E+03	1.5082E+03	2.4648E+03	8
2.8	1.3352E+03	1.9999E+03	3.3017E+03	8
2.9	1.7545E+03	2.6529E+03	4.4245E+03	8
3.0	2.3065E+03	3.5208E+03	5.9314E+03	8
3.1	3.0335E+03	4.6744E+03	7.9543E+03	8
3.2	3.9913E+03	6.2084E+03	1.0670E+04	8
3.3	5.2534E+03	8.2487E+03	1.4318E+04	8
3.4	6.9173E+03	1.0963E+04	1.9220E+04	8
3.5	9.1111E+03	1.4575E+04	2.5806E+04	8
3.6	1.2004E+04	1.9384E+04	3.4658E+04	8
3.7	1.5822E+04	2.5786E+04	4.6558E+04	8
3.8	2.0859E+04	3.4312E+04	6.2558E+04	8
3.9	2.7507E+04	4.5669E+04	8.4077E+04	8
4.0	3.6285E+04	6.0800E+04	1.1302E+05	8
4.1	4.7875E+04	8.0963E+04	1.5196E+05	8
4.2	6.3181E+04	1.0783E+05	2.0436E+05	8
4.3	8.3401E+04	1.4366E+05	2.7487E+05	8
4.4	1.1011E+05	1.9142E+05	3.6979E+05	8
4.5	1.4542E+05	2.5512E+05	4.9756E+05	8
4.6	1.9207E+05	3.4007E+05	6.6959E+05	8
4.7	2.5375E+05	4.5339E+05	9.0125E+05	8
4.8	3.3530E+05	6.0457E+05	1.2132E+06	8
4.9	4.4313E+05	8.0631E+05	1.6334E+06	8
5.0	5.8574E+05	1.0755E+06	2.1995E+06	8

TABLE IV

Table of $dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$: Five Significant Figures

$\theta = 0 \ (5^\circ) \ 175^\circ$

$b = 0 \ (0.1) \ 5.0$

		$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$			
θ		0	5	10	15
b					
.0	0	1.0917E-02	2.1892E-02	3.2983E-02	
.1	0	1.1354E-02	2.2769E-02	3.4305E-02	
.2	0	1.2665E-02	2.5399E-02	3.8274E-02	
.3	0	1.4849E-02	2.9784E-02	4.4892E-02	
.4	0	1.7907E-02	3.5926E-02	5.4167E-02	
.5	0	2.1840E-02	4.3827E-02	6.6108E-02	
.6	0	2.6648E-02	5.3492E-02	8.0728E-02	
.7	0	3.2331E-02	6.4924E-02	9.8041E-02	
.8	0	3.8891E-02	7.8129E-02	1.1806E-01	
.9	0	4.6327E-02	9.3112E-02	1.4082E-01	
1.0	0	5.4641E-02	1.0988E-01	1.6633E-01	
1.1	0	6.3833E-02	1.2844E-01	1.9462E-01	
1.2	0	7.3905E-02	1.4880E-01	2.2572E-01	
1.3	0	8.4858E-02	1.7098E-01	2.5967E-01	
1.4	0	9.6693E-02	1.9498E-01	2.9649E-01	
1.5	0	1.0941E-01	2.2081E-01	3.3623E-01	
1.6	0	1.2301E-01	2.4848E-01	3.7892E-01	
1.7	0	1.3750E-01	2.7801E-01	4.2460E-01	
1.8	0	1.5288E-01	3.0941E-01	4.7334E-01	
1.9	0	1.6915E-01	3.4269E-01	5.2517E-01	
2.0	0	1.8631E-01	3.7787E-01	5.8014E-01	
2.1	0	2.0436E-01	4.1497E-01	6.3832E-01	
2.2	0	2.2331E-01	4.5400E-01	6.9976E-01	
2.3	0	2.4315E-01	4.9498E-01	7.6452E-01	
2.4	0	2.6390E-01	5.3793E-01	8.3267E-01	
2.5	0	2.8555E-01	5.8286E-01	9.0428E-01	
2.6	0	3.0811E-01	6.2981E-01	9.7943E-01	
2.7	0	3.3157E-01	6.7878E-01	1.0581E-00	
2.8	0	3.5594E-01	7.2981E-01	1.1406E-00	
2.9	0	3.8122E-01	7.8291E-01	1.2268E-00	
3.0	0	4.0743E-01	8.3811E-01	1.3168E-00	
3.1	0	4.3455E-01	8.9543E-01	1.4108E-00	
3.2	0	4.6259E-01	9.5490E-01	1.5089E-00	
3.3	0	4.9155E-01	1.0165E-00	1.6111E-00	
3.4	0	5.2145E-01	1.0804E-00	1.7175E-00	
3.5	0	5.5228E-01	1.1464E-00	1.8282E-00	
3.6	0	5.8404E-01	1.2148E-00	1.9435E-00	
3.7	0	6.1674E-01	1.2854E-00	2.0633E-00	
3.8	0	6.5038E-01	1.3584E-00	2.1878E-00	
3.9	0	6.8498E-01	1.4337E-00	2.3170E-00	
4.0	0	7.2052E-01	1.5114E-00	2.4513E-00	
4.1	0	7.5701E-01	1.5916E-00	2.5906E-00	
4.2	0	7.9447E-01	1.6742E-00	2.7351E-00	
4.3	0	8.3288E-01	1.7593E-00	2.8850E-00	
4.4	0	8.7227E-01	1.8469E-00	3.0404E-00	
4.5	0	9.1262E-01	1.9372E-00	3.2014E-00	
4.6	0	9.5396E-01	2.0300E-00	3.3682E-00	
4.7	0	9.9627E-01	2.1255E-00	3.5411E-00	
4.8	0	1.0395E-00	2.2237E-00	3.7200E-00	
4.9	0	1.0838E-00	2.3246E-00	3.9053E-00	
5.0	0	1.1291E-00	2.4283E-00	4.0971E-00	

$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$					
b	θ	15	20	25	30
.0		3.2983E-02	4.4249E-02	5.5754E-02	6.7562E-02
.1		3.4305E-02	4.6026E-02	5.7997E-02	7.0289E-02
.2		3.8274E-02	5.1361E-02	6.4736E-02	7.8480E-02
.3		4.4892E-02	6.0262E-02	7.5987E-02	9.2168E-02
.4		5.4167E-02	7.2746E-02	9.1784E-02	1.1140E-01
.5		6.6108E-02	8.8836E-02	1.1217E-01	1.3628E-01
.6		8.0728E-02	1.0856E-01	1.3720E-01	1.6688E-01
.7		9.8041E-02	1.3195E-01	1.6696E-01	2.0335E-01
.8		1.1806E-01	1.5906E-01	2.0151E-01	2.4582E-01
.9		1.4082E-01	1.8994E-01	2.4097E-01	2.9446E-01
1.0		1.6633E-01	2.2463E-01	2.8544E-01	3.4948E-01
1.1		1.9462E-01	2.6320E-01	3.3505E-01	4.1110E-01
1.2		2.2572E-01	3.0572E-01	3.8993E-01	4.7956E-01
1.3		2.5967E-01	3.5228E-01	4.5025E-01	5.5515E-01
1.4		2.9649E-01	4.0294E-01	5.1616E-01	6.3815E-01
1.5		3.3623E-01	4.5781E-01	5.8787E-01	7.2892E-01
1.6		3.7892E-01	5.1698E-01	6.6555E-01	8.2780E-01
1.7		4.2460E-01	5.8057E-01	7.4945E-01	9.3519E-01
1.8		4.7334E-01	6.4867E-01	8.3977E-01	1.0515E-00
1.9		5.2517E-01	7.2142E-01	9.3679E-01	1.1772E-00
2.0		5.8014E-01	7.9895E-01	1.0407E-00	1.3128E-00
2.1		6.3832E-01	8.8139E-01	1.1519E-00	1.4589E-00
2.2		6.9976E-01	9.6890E-01	1.2707E-00	1.6159E-00
2.3		7.6452E-01	1.0616E-00	1.3973E-00	1.7846E-00
2.4		8.3267E-01	1.1597E-00	1.5322E-00	1.9655E-00
2.5		9.0428E-01	1.2633E-00	1.6757E-00	2.1595E-00
2.6		9.7943E-01	1.3728E-00	1.8281E-00	2.3671E-00
2.7		1.0581E-00	1.4881E-00	1.9900E-00	2.5892E-00
2.8		1.1406E-00	1.6096E-00	2.1616E-00	2.8268E-00
2.9		1.2268E-00	1.7374E-00	2.3436E-00	3.0806E-00
3.0		1.3168E-00	1.8718E-00	2.5364E-00	3.3517E-00
3.1		1.4108E-00	2.0130E-00	2.7405E-00	3.6410E-00
3.2		1.5089E-00	2.1613E-00	2.9564E-00	3.9497E-00
3.3		1.6111E-00	2.3169E-00	3.1848E-00	4.2790E-00
3.4		1.7175E-00	2.4801E-00	3.4263E-00	4.6300E-00
3.5		1.8282E-00	2.6512E-00	3.6814E-00	5.0041E-00
3.6		1.9435E-00	2.8304E-00	3.9509E-00	5.4027E-00
3.7		2.0633E-00	3.0181E-00	4.2354E-00	5.8273E-00
3.8		2.1878E-00	3.2146E-00	4.5358E-00	6.2794E-00
3.9		2.3170E-00	3.4203E-00	4.8528E-00	6.7607E-00
4.0		2.4513E-00	3.6354E-00	5.1872E-00	7.2730E-00
4.1		2.5906E-00	3.8604E-00	5.5400E-00	7.8181E-00
4.2		2.7351E-00	4.0957E-00	5.9120E-00	8.3981E-00
4.3		2.8850E-00	4.3416E-00	6.3042E-00	9.0150E-00
4.4		3.0404E-00	4.5986E-00	6.7175E-00	9.6711E-00
4.5		3.2014E-00	4.8670E-00	7.1532E-00	1.0368E+01
4.6		3.3682E-00	5.1475E-00	7.6122E-00	1.1110E+01
4.7		3.5411E-00	5.4403E-00	8.0959E-00	1.1899E+01
4.8		3.7200E-00	5.7461E-00	8.6053E-00	1.2737E+01
4.9		3.9053E-00	6.0654E-00	9.1418E-00	1.3627E+01
5.0		4.0971E-00	6.3986E-00	9.7068E-00	1.4574E+01

$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$					
b	θ	30	35	40	45
.0		6.7562E-02	7.9747E-02	9.2385E-02	1.0556E-01
.1		7.0289E-02	8.2975E-02	9.6138E-02	1.0986E-01
.2		7.8480E-02	9.2678E-02	1.0742E-01	1.2282E-01
.3		9.2168E-02	1.0891E-01	1.2633E-01	1.4455E-01
.4		1.1140E-01	1.3176E-01	1.5298E-01	1.7525E-01
.5		1.3628E-01	1.6135E-01	1.8758E-01	2.1519E-01
.6		1.6688E-01	1.9785E-01	2.3037E-01	2.6473E-01
.7		2.0335E-01	2.4146E-01	2.8166E-01	3.2433E-01
.8		2.4582E-01	2.9242E-01	3.4181E-01	3.9452E-01
.9		2.9446E-01	3.5101E-01	4.1126E-01	4.7593E-01
1.0		3.4948E-01	4.1755E-01	4.9049E-01	5.6928E-01
1.1		4.1110E-01	4.9240E-01	5.8007E-01	6.7541E-01
1.2		4.7956E-01	5.7597E-01	6.8064E-01	7.9526E-01
1.3		5.5515E-01	6.6871E-01	7.9289E-01	9.2988E-01
1.4		6.3815E-01	7.7114E-01	9.1762E-01	1.0804E-00
1.5		7.2892E-01	8.8379E-01	1.0557E-00	1.2483E-00
1.6		8.2780E-01	1.0072E-00	1.2080E-00	1.4349E-00
1.7		9.3519E-01	1.1422E-00	1.3758E-00	1.6418E-00
1.8		1.0515E-00	1.2894E-00	1.5601E-00	1.8709E-00
1.9		1.1772E-00	1.4497E-00	1.7621E-00	2.1242E-00
2.0		1.3128E-00	1.6237E-00	1.9834E-00	2.4036E-00
2.1		1.4589E-00	1.8126E-00	2.2253E-00	2.7117E-00
2.2		1.6159E-00	2.0172E-00	2.4895E-00	3.0511E-00
2.3		1.7846E-00	2.2386E-00	2.7778E-00	3.4246E-00
2.4		1.9655E-00	2.4781E-00	3.0921E-00	3.8352E-00
2.5		2.1595E-00	2.7368E-00	3.4346E-00	4.2865E-00
2.6		2.3671E-00	3.0160E-00	3.8074E-00	4.7822E-00
2.7		2.5892E-00	3.3173E-00	4.2132E-00	5.3262E-00
2.8		2.8268E-00	3.6421E-00	4.6544E-00	5.9232E-00
2.9		3.0806E-00	3.9922E-00	5.1341E-00	6.5780E-00
3.0		3.3517E-00	4.3692E-00	5.6554E-00	7.2958E-00
3.1		3.6410E-00	4.7752E-00	6.2216E-00	8.0825E-00
3.2		3.9497E-00	5.2122E-00	6.8364E-00	8.9443E-00
3.3		4.2790E-00	5.6822E-00	7.5037E-00	9.8883E-00
3.4		4.6300E-00	6.1879E-00	8.2279E-00	1.0921E+01
3.5		5.0041E-00	6.7315E-00	9.0136E-00	1.2053E+01
3.6		5.4027E-00	7.3159E-00	9.8657E-00	1.3291E+01
3.7		5.8273E-00	7.9439E-00	1.0789E+01	1.4645E+01
3.8		6.2794E-00	8.6186E-00	1.1791E+01	1.6127E+01
3.9		6.7607E-00	9.3433E-00	1.2876E+01	1.7747E+01
4.0		7.2730E-00	1.0121E+01	1.4053E+01	1.9518E+01
4.1		7.8181E-00	1.0957E+01	1.5327E+01	2.1455E+01
4.2		8.3981E-00	1.1854E+01	1.6708E+01	2.3571E+01
4.3		9.0150E-00	1.2817E+01	1.8202E+01	2.5883E+01
4.4		9.6711E-00	1.3850E+01	1.9821E+01	2.8409E+01
4.5		1.0368E+01	1.4959E+01	2.1574E+01	3.1168E+01
4.6		1.1110E+01	1.6148E+01	2.3470E+01	3.4182E+01
4.7		1.1899E+01	1.7424E+01	2.5523E+01	3.7472E+01
4.8		1.2737E+01	1.8792E+01	2.7745E+01	4.1064E+01
4.9		1.3627E+01	2.0259E+01	3.0148E+01	4.4985E+01
5.0		1.4574E+01	2.1832E+01	3.2748E+01	4.9264E+01

$$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$$

θ	45	50	55	60
b				
.0	1.0556E-01	1.1937E-01	1.3392E-01	1.4933E-01
.1	1.0986E-01	1.2426E-01	1.3943E-01	1.5551E-01
.2	1.2282E-01	1.3899E-01	1.5606E-01	1.7416E-01
.3	1.4455E-01	1.6372E-01	1.8401E-01	2.0558E-01
.4	1.7525E-01	1.9874E-01	2.2366E-01	2.5025E-01
.5	2.1519E-01	2.4442E-01	2.7555E-01	3.0889E-01
.6	2.6473E-01	3.0128E-01	3.4037E-01	3.8243E-01
.7	3.2433E-01	3.6994E-01	4.1897E-01	4.7202E-01
.8	3.9452E-01	4.5116E-01	5.1241E-01	5.7907E-01
.9	4.7593E-01	5.4584E-01	6.2192E-01	7.0524E-01
1.0	5.6928E-01	6.5501E-01	7.4893E-01	8.5249E-01
1.1	6.7541E-01	7.7987E-01	8.9512E-01	1.0230E-00
1.2	7.9526E-01	9.2176E-01	1.0623E-00	1.2196E-00
1.3	9.2988E-01	1.0822E-00	1.2528E-00	1.4452E-00
1.4	1.0804E-00	1.2629E-00	1.4690E-00	1.7031E-00
1.5	1.2483E-00	1.4659E-00	1.7136E-00	1.9973E-00
1.6	1.4349E-00	1.6933E-00	1.9898E-00	2.3321E-00
1.7	1.6418E-00	1.9474E-00	2.3010E-00	2.7126E-00
1.8	1.8709E-00	2.2311E-00	2.6512E-00	3.1443E-00
1.9	2.1242E-00	2.5471E-00	3.0447E-00	3.6336E-00
2.0	2.4036E-00	2.8988E-00	3.4864E-00	4.1877E-00
2.1	2.7117E-00	3.2899E-00	3.9818E-00	4.8144E-00
2.2	3.0511E-00	3.7244E-00	4.5369E-00	5.5229E-00
2.3	3.4246E-00	4.2066E-00	5.1584E-00	6.3232E-00
2.4	3.8352E-00	4.7415E-00	5.8540E-00	7.2268E-00
2.5	4.2865E-00	5.3346E-00	6.6320E-00	8.2464E-00
2.6	4.7822E-00	5.9917E-00	7.5017E-00	9.3963E-00
2.7	5.3262E-00	6.7194E-00	8.4735E-00	1.0692E+01
2.8	5.9232E-00	7.5250E-00	9.5588E-00	1.2153E+01
2.9	6.5780E-00	8.4165E-00	1.0770E+01	1.3798E+01
3.0	7.2958E-00	9.4025E-00	1.2122E+01	1.5651E+01
3.1	8.0825E-00	1.0492E+01	1.3631E+01	1.7736E+01
3.2	8.9443E-00	1.1698E+01	1.5314E+01	2.0082E+01
3.3	9.8883E-00	1.3030E+01	1.7190E+01	2.2722E+01
3.4	1.0921E+01	1.4501E+01	1.9281E+01	2.5690E+01
3.5	1.2053E+01	1.6126E+01	2.1611E+01	2.9026E+01
3.6	1.3291E+01	1.7920E+01	2.4206E+01	3.2775E+01
3.7	1.4645E+01	1.9901E+01	2.7097E+01	3.6988E+01
3.8	1.6127E+01	2.2086E+01	3.0315E+01	4.1721E+01
3.9	1.7747E+01	2.4498E+01	3.3897E+01	4.7035E+01
4.0	1.9518E+01	2.7158E+01	3.7884E+01	5.3001E+01
4.1	2.1455E+01	3.0092E+01	4.2320E+01	5.9699E+01
4.2	2.3571E+01	3.3327E+01	4.7255E+01	6.7214E+01
4.3	2.5883E+01	3.6893E+01	5.2743E+01	7.5647E+01
4.4	2.8409E+01	4.0824E+01	5.8846E+01	8.5107E+01
4.5	3.1168E+01	4.5155E+01	6.5631E+01	9.5716E+01
4.6	3.4182E+01	4.9928E+01	7.3172E+01	1.0761E+02
4.7	3.7472E+01	5.5185E+01	8.1553E+01	1.2095E+02
4.8	4.1064E+01	6.0976E+01	9.0866E+01	1.3590E+02
4.9	4.4985E+01	6.7353E+01	1.0121E+02	1.5265E+02
5.0	4.9264E+01	7.4374E+01	1.1270E+02	1.7143E+02

$$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$$

b	θ	60	65	70	75
.0		1.4933E-01	1.6575E-01	1.8333E-01	2.0226E-01
.1		1.5551E-01	1.7265E-01	1.9101E-01	2.1079E-01
.2		1.7416E-01	1.9349E-01	2.1422E-01	2.3660E-01
.3		2.0558E-01	2.2865E-01	2.5346E-01	2.8031E-01
.4		2.5025E-01	2.7878E-01	3.0957E-01	3.4298E-01
.5		3.0889E-01	3.4481E-01	3.8373E-01	4.2614E-01
.6		3.8243E-01	4.2796E-01	4.7752E-01	5.3179E-01
.7		4.7202E-01	5.2975E-01	5.9293E-01	6.6247E-01
.8		5.7907E-01	6.5203E-01	7.3236E-01	8.2130E-01
.9		7.0524E-01	7.9702E-01	8.9873E-01	1.0120E-00
1.0		8.5249E-01	9.6735E-01	1.0954E-00	1.2392E-00
1.1		1.0230E-00	1.1660E-00	1.3266E-00	1.5081E-00
1.2		1.2196E-00	1.3967E-00	1.5970E-00	1.8250E-00
1.3		1.4452E-00	1.6633E-00	1.9121E-00	2.1972E-00
1.4		1.7031E-00	1.9707E-00	2.2781E-00	2.6332E-00
1.5		1.9973E-00	2.3241E-00	2.7025E-00	3.1430E-00
1.6		2.3321E-00	2.7297E-00	3.1937E-00	3.7379E-00
1.7		2.7126E-00	3.1944E-00	3.7613E-00	4.4314E-00
1.8		3.1443E-00	3.7263E-00	4.4166E-00	5.2389E-00
1.9		3.6336E-00	4.3344E-00	5.1721E-00	6.1781E-00
2.0		4.1877E-00	5.0289E-00	6.0426E-00	7.2696E-00
2.1		4.8144E-00	5.8214E-00	7.0448E-00	8.5373E-00
2.2		5.5229E-00	6.7252E-00	8.1977E-00	1.0008E+01
2.3		6.3232E-00	7.7552E-00	9.5233E-00	1.1714E+01
2.4		7.2268E-00	8.9284E-00	1.1046E+01	1.3693E+01
2.5		8.2464E-00	1.0264E+01	1.2795E+01	1.5984E+01
2.6		9.3963E-00	1.1783E+01	1.4803E+01	1.8638E+01
2.7		1.0692E+01	1.3512E+01	1.7107E+01	2.1710E+01
2.8		1.2153E+01	1.5476E+01	1.9750E+01	2.5265E+01
2.9		1.3798E+01	1.7709E+01	2.2779E+01	2.9375E+01
3.0		1.5651E+01	2.0246E+01	2.6251E+01	3.4127E+01
3.1		1.7736E+01	2.3126E+01	3.0228E+01	3.9619E+01
3.2		2.0082E+01	2.6396E+01	3.4783E+01	4.5964E+01
3.3		2.2722E+01	3.0106E+01	3.9997E+01	5.3290E+01
3.4		2.5690E+01	3.4315E+01	4.5964E+01	6.1749E+01
3.5		2.9026E+01	3.9088E+01	5.2790E+01	7.1511E+01
3.6		3.2775E+01	4.4501E+01	6.0599E+01	8.2775E+01
3.7		3.6988E+01	5.0635E+01	6.9527E+01	9.5768E+01
3.8		4.1721E+01	5.7587E+01	7.9734E+01	1.1075E+02
3.9		4.7035E+01	6.5462E+01	9.1398E+01	1.2802E+02
4.0		5.3001E+01	7.4382E+01	1.0472E+02	1.4793E+02
4.1		5.9699E+01	8.4483E+01	1.1994E+02	1.7087E+02
4.2		6.7214E+01	9.5918E+01	1.3733E+02	1.9730E+02
4.3		7.5647E+01	1.0886E+02	1.5718E+02	2.2774E+02
4.4		8.5107E+01	1.2350E+02	1.7985E+02	2.6279E+02
4.5		9.5716E+01	1.4007E+02	2.0571E+02	3.0315E+02
4.6		1.0761E+02	1.5882E+02	2.3523E+02	3.4961E+02
4.7		1.2095E+02	1.8002E+02	2.6890E+02	4.0308E+02
4.8		1.3590E+02	2.0399E+02	3.0731E+02	4.6460E+02
4.9		1.5265E+02	2.3110E+02	3.5112E+02	5.3538E+02
5.0		1.7143E+02	2.6174E+02	4.0107E+02	6.1680E+02

$$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$$

b	θ	75	80	85	90
.0		2.0226E-01	2.2277E-01	2.4513E-01	2.6967E-01
.1		2.1079E-01	2.3224E-01	2.5562E-01	2.8130E-01
.2		2.3660E-01	2.6089E-01	2.8742E-01	3.1658E-01
.3		2.8031E-01	3.0951E-01	3.4149E-01	3.7673E-01
.4		3.4298E-01	3.7945E-01	4.1951E-01	4.6379E-01
.5		4.2614E-01	4.7262E-01	5.2387E-01	5.8074E-01
.6		5.3179E-01	5.9155E-01	6.5775E-01	7.3154E-01
.7		6.6247E-01	7.3947E-01	8.2521E-01	9.2127E-01
.8		8.2130E-01	9.2036E-01	1.0312E-00	1.1562E-00
.9		1.0120E-00	1.1390E-00	1.2821E-00	1.4443E-00
1.0		1.2392E-00	1.4013E-00	1.5852E-00	1.7950E-00
1.1		1.5081E-00	1.7142E-00	1.9495E-00	2.2196E-00
1.2		1.8250E-00	2.0858E-00	2.3856E-00	2.7321E-00
1.3		2.1972E-00	2.5257E-00	2.9061E-00	3.3489E-00
1.4		2.6332E-00	3.0454E-00	3.5261E-00	4.0895E-00
1.5		3.1430E-00	3.6580E-00	4.2632E-00	4.9776E-00
1.6		3.7379E-00	4.3792E-00	5.1383E-00	6.0410E-00
1.7		4.4314E-00	5.2270E-00	6.1759E-00	7.3127E-00
1.8		5.2389E-00	6.2228E-00	7.4051E-00	8.8323E-00
1.9		6.1781E-00	7.3911E-00	8.8599E-00	1.0646E+01
2.0		7.2696E-00	8.7608E-00	1.0580E+01	1.2810E+01
2.1		8.5373E-00	1.0365E+01	1.2613E+01	1.5389E+01
2.2		1.0008E+01	1.2244E+01	1.5014E+01	1.8462E+01
2.3		1.1714E+01	1.4442E+01	1.7848E+01	2.2120E+01
2.4		1.3693E+01	1.7012E+01	2.1191E+01	2.6473E+01
2.5		1.5984E+01	2.0016E+01	2.5132E+01	3.1650E+01
2.6		1.8638E+01	2.3526E+01	2.9777E+01	3.7804E+01
2.7		2.1710E+01	2.7624E+01	3.5248E+01	4.5115E+01
2.8		2.5265E+01	3.2406E+01	4.1688E+01	5.3798E+01
2.9		2.9375E+01	3.7986E+01	4.9268E+01	6.4105E+01
3.0		3.4127E+01	4.4494E+01	5.8185E+01	7.6336E+01
3.1		3.9619E+01	5.2080E+01	6.8671E+01	9.0845E+01
3.2		4.5964E+01	6.0920E+01	8.0998E+01	1.0804E+02
3.3		5.3290E+01	7.1219E+01	9.5483E+01	1.2844E+02
3.4		6.1749E+01	8.3213E+01	1.1250E+02	1.5260E+02
3.5		7.1511E+01	9.7177E+01	1.3248E+02	1.8123E+02
3.6		8.2775E+01	1.1342E+02	1.5594E+02	2.1513E+02
3.7		9.5768E+01	1.3234E+02	1.8348E+02	2.5527E+02
3.8		1.1075E+02	1.5433E+02	2.1580E+02	3.0278E+02
3.9		1.2802E+02	1.7992E+02	2.5370E+02	3.5900E+02
4.0		1.4793E+02	2.0966E+02	2.9816E+02	4.2551E+02
4.1		1.7087E+02	2.4423E+02	3.5029E+02	5.0418E+02
4.2		1.9730E+02	2.8441E+02	4.1140E+02	5.9720E+02
4.3		2.2774E+02	3.3109E+02	4.8303E+02	7.0717E+02
4.4		2.6279E+02	3.8532E+02	5.6695E+02	8.3716E+02
4.5		3.0315E+02	4.4830E+02	6.6527E+02	9.9077E+02
4.6		3.4961E+02	5.2143E+02	7.8044E+02	1.1722E+03
4.7		4.0308E+02	6.0633E+02	9.1530E+02	1.3866E+03
4.8		4.6460E+02	7.0488E+02	1.0732E+03	1.6399E+03
4.9		5.3538E+02	8.1925E+02	1.2580E+03	1.9389E+03
5.0		6.1680E+02	9.5195E+02	1.4744E+03	2.2920E+03

$$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$$

θ	90	95	100	105
b				
.0	2.6967E-01	2.9678E-01	3.2697E-01	3.6085E-01
.1	2.8130E-01	3.0968E-01	3.4129E-01	3.7679E-01
.2	3.1658E-01	3.4886E-01	3.8487E-01	4.2535E-01
.3	3.7673E-01	4.1582E-01	4.5951E-01	5.0873E-01
.4	4.6379E-01	5.1307E-01	5.6830E-01	6.3070E-01
.5	5.8074E-01	6.4427E-01	7.1573E-01	7.9675E-01
.6	7.3155E-01	8.1434E-01	9.0787E-01	1.0143E-00
.7	9.2127E-01	1.0295E-00	1.1525E-00	1.2931E-00
.8	1.1562E-00	1.2979E-00	1.4596E-00	1.6453E-00
.9	1.4443E-00	1.6292E-00	1.8414E-00	2.0866E-00
1.0	1.7950E-00	2.0355E-00	2.3132E-00	2.6359E-00
1.1	2.2196E-00	2.5315E-00	2.8937E-00	3.3170E-00
1.2	2.7321E-00	3.1348E-00	3.6054E-00	4.1590E-00
1.3	3.3489E-00	3.8668E-00	4.4762E-00	5.1976E-00
1.4	4.0896E-00	4.7533E-00	5.5396E-00	6.4764E-00
1.5	4.9776E-00	5.8252E-00	6.8362E-00	8.0489E-00
1.6	6.0410E-00	7.1196E-00	8.4153E-00	9.9802E-00
1.7	7.3127E-00	8.6811E-00	1.0336E+01	1.2349E+01
1.8	8.8323E-00	1.0562E+01	1.2671E+01	1.5254E+01
1.9	1.0646E+01	1.2828E+01	1.5507E+01	1.8812E+01
2.0	1.2810E+01	1.5554E+01	1.8948E+01	2.3166E+01
2.1	1.5389E+01	1.8832E+01	2.3121E+01	2.8493E+01
2.2	1.8462E+01	2.2771E+01	2.8180E+01	3.5004E+01
2.3	2.2120E+01	2.7500E+01	3.4306E+01	4.2958E+01
2.4	2.6473E+01	3.3177E+01	4.1723E+01	5.2670E+01
2.5	3.1650E+01	3.9987E+01	5.0697E+01	6.4522E+01
2.6	3.7804E+01	4.8152E+01	6.1550E+01	7.8980E+01
2.7	4.5115E+01	5.7936E+01	7.4669E+01	9.6607E+01
2.8	5.3798E+01	6.9658E+01	9.0520E+01	1.1809E+02
2.9	6.4105E+01	8.3694E+01	1.0966E+02	1.4426E+02
3.0	7.6337E+01	1.0049E+02	1.3278E+02	1.7612E+02
3.1	9.0845E+01	1.2059E+02	1.6067E+02	2.1492E+02
3.2	1.0804E+02	1.4463E+02	1.9433E+02	2.6213E+02
3.3	1.2844E+02	1.7338E+02	2.3492E+02	3.1956E+02
3.4	1.5260E+02	2.0774E+02	2.8385E+02	3.8940E+02
3.5	1.8123E+02	2.4880E+02	3.4284E+02	4.7430E+02
3.6	2.1513E+02	2.9785E+02	4.1391E+02	5.7750E+02
3.7	2.5527E+02	3.5642E+02	4.9953E+02	7.0288E+02
3.8	3.0278E+02	4.2636E+02	6.0263E+02	8.5520E+02
3.9	3.5900E+02	5.0984E+02	7.2678E+02	1.0401E+03
4.0	4.2551E+02	6.0945E+02	8.7621E+02	1.2647E+03
4.1	5.0418E+02	7.2830E+02	1.0560E+03	1.5374E+03
4.2	5.9720E+02	8.7006E+02	1.2724E+03	1.8682E+03
4.3	7.0717E+02	1.0391E+03	1.5326E+03	2.2697E+03
4.4	8.3716E+02	1.2406E+03	1.8456E+03	2.7567E+03
4.5	9.9077E+02	1.4809E+03	2.2220E+03	3.3474E+03
4.6	1.1722E+03	1.7673E+03	2.6745E+03	4.0637E+03
4.7	1.3866E+03	2.1085E+03	3.2183E+03	4.9322E+03
4.8	1.6399E+03	2.5150E+03	3.8720E+03	5.9850E+03
4.9	1.9389E+03	2.9993E+03	4.6573E+03	7.2610E+03
5.0	2.2920E+03	3.5760E+03	5.6008E+03	8.8074E+03

$$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$$

b	θ	105	110	115	120
.0		3.6085E-01	3.9922E-01	4.4312E-01	4.9393E-01
.1		3.7679E-01	4.1701E-01	4.6305E-01	5.1634E-01
.2		4.2535E-01	4.7127E-01	5.2389E-01	5.8486E-01
.3		5.0873E-01	5.6467E-01	6.2889E-01	7.0343E-01
.4		6.3070E-01	7.0180E-01	7.8362E-01	8.7881E-01
.5		7.9675E-01	8.8937E-01	9.9628E-01	1.1210E-00
.6		1.0143E-00	1.1365E-00	1.2780E-00	1.4436E-00
.7		1.2931E-00	1.4551E-00	1.6435E-00	1.8649E-00
.8		1.6453E-00	1.8605E-00	2.1118E-00	2.4084E-00
.9		2.0866E-00	2.3719E-00	2.7069E-00	3.1040E-00
1.0		2.6359E-00	3.0135E-00	3.4592E-00	3.9901E-00
1.1		3.3170E-00	3.8153E-00	4.4067E-00	5.1148E-00
1.2		4.1590E-00	4.8145E-00	5.5969E-00	6.5390E-00
1.3		5.1976E-00	6.0571E-00	7.0892E-00	8.3391E-00
1.4		6.4764E-00	7.5999E-00	8.9573E-00	1.0611E+01
1.5		8.0489E-00	9.5128E-00	1.1292E+01	1.3474E+01
1.6		9.9802E-00	1.1882E+01	1.4209E+01	1.7081E+01
1.7		1.2349E+01	1.4813E+01	1.7849E+01	2.1619E+01
1.8		1.5254E+01	1.8437E+01	2.2386E+01	2.7324E+01
1.9		1.8812E+01	2.2914E+01	2.8039E+01	3.4490E+01
2.0		2.3166E+01	2.8440E+01	3.5075E+01	4.3487E+01
2.1		2.8493E+01	3.5257E+01	4.3830E+01	5.4774E+01
2.2		3.5004E+01	4.3661E+01	5.4714E+01	6.8927E+01
2.3		4.2958E+01	5.4017E+01	6.8240E+01	8.6664E+01
2.4		5.2670E+01	6.6769E+01	8.5039E+01	1.0888E+02
2.5		6.4522E+01	8.2465E+01	1.0589E+02	1.3669E+02
2.6		7.8980E+01	1.0177E+02	1.3176E+02	1.7150E+02
2.7		9.6607E+01	1.2552E+02	1.6386E+02	2.1503E+02
2.8		1.1809E+02	1.5471E+02	2.0364E+02	2.6947E+02
2.9		1.4426E+02	1.9057E+02	2.5295E+02	3.3751E+02
3.0		1.7612E+02	2.3463E+02	3.1403E+02	4.2252E+02
3.1		2.1492E+02	2.8871E+02	3.8967E+02	5.2870E+02
3.2		2.6213E+02	3.5510E+02	4.8332E+02	6.6128E+02
3.3		3.1956E+02	4.3656E+02	5.9920E+02	8.2676E+02
3.4		3.8940E+02	5.3647E+02	7.4258E+02	1.0332E+03
3.5		4.7430E+02	6.5899E+02	9.1991E+02	1.2908E+03
3.6		5.7750E+02	8.0920E+02	1.1391E+03	1.6121E+03
3.7		7.0288E+02	9.9328E+02	1.4102E+03	2.0126E+03
3.8		8.5520E+02	1.2188E+03	1.7452E+03	2.5119E+03
3.9		1.0401E+03	1.4951E+03	2.1591E+03	3.1342E+03
4.0		1.2647E+03	1.8335E+03	2.6704E+03	3.9095E+03
4.1		1.5374E+03	2.2478E+03	3.3018E+03	4.8753E+03
4.2		1.8682E+03	2.7549E+03	4.0815E+03	6.0781E+03
4.3		2.2697E+03	3.3757E+03	5.0440E+03	7.5758E+03
4.4		2.7567E+03	4.1352E+03	6.2320E+03	9.4404E+03
4.5		3.3474E+03	5.0644E+03	7.6980E+03	1.1761E+04
4.6		4.0637E+03	6.2011E+03	9.5067E+03	1.4649E+04
4.7		4.9322E+03	7.5912E+03	1.1738E+04	1.8243E+04
4.8		5.9850E+03	9.2909E+03	1.4490E+04	2.2714E+04
4.9		7.2610E+03	1.1369E+04	1.7883E+04	2.8276E+04
5.0		8.8074E+03	1.3909E+04	2.2068E+04	3.5192E+04

$$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$$

b	θ 120	125	130	135
.0	4.9393E-01	5.5352E-01	6.2450E-01	7.1061E-01
.1	5.1634E-01	5.7887E-01	6.5336E-01	7.4375E-01
.2	5.8486E-01	6.5646E-01	7.4183E-01	8.4550E-01
.3	7.0343E-01	7.9108E-01	8.9573E-01	1.0229E-00
.4	8.7881E-01	9.9097E-01	1.1251E-00	1.2884E-00
.5	1.1210E-00	1.2683E-00	1.4449E-00	1.6603E-00
.6	1.4436E-00	1.6399E-00	1.8758E-00	2.1643E-00
.7	1.8649E-00	2.1282E-00	2.4457E-00	2.8349E-00
.8	2.4084E-00	2.7624E-00	3.1908E-00	3.7177E-00
.9	3.1040E-00	3.5801E-00	4.1584E-00	4.8724E-00
1.0	3.9901E-00	4.6294E-00	5.4095E-00	6.3764E-00
1.1	5.1148E-00	5.9718E-00	7.0223E-00	8.3299E-00
1.2	6.5390E-00	7.6852E-00	9.0970E-00	1.0862E+01
1.3	8.3391E-00	9.8682E-00	1.1761E+01	1.4140E+01
1.4	1.0611E+01	1.2645E+01	1.5179E+01	1.8378E+01
1.5	1.3474E+01	1.6176E+01	1.9558E+01	2.3853E+01
1.6	1.7081E+01	2.0658E+01	2.5163E+01	3.0917E+01
1.7	2.1619E+01	2.6344E+01	3.2333E+01	4.0026E+01
1.8	2.7324E+01	3.3553E+01	4.1497E+01	5.1764E+01
1.9	3.4490E+01	4.2684E+01	5.3202E+01	6.6881E+01
2.0	4.3487E+01	5.4243E+01	6.8143E+01	8.6335E+01
2.1	5.4774E+01	6.8868E+01	8.7203E+01	1.1136E+02
2.2	6.8927E+01	8.7360E+01	1.1150E+02	1.4353E+02
2.3	8.6664E+01	1.1073E+02	1.4247E+02	1.8487E+02
2.4	1.0888E+02	1.4025E+02	1.8193E+02	2.3798E+02
2.5	1.3669E+02	1.7752E+02	2.3216E+02	3.0616E+02
2.6	1.7150E+02	2.2455E+02	2.9609E+02	3.9366E+02
2.7	2.1503E+02	2.8389E+02	3.7742E+02	5.0592E+02
2.8	2.6947E+02	3.5872E+02	4.8084E+02	6.4988E+02
2.9	3.3751E+02	4.5304E+02	6.1233E+02	8.3444E+02
3.0	4.2252E+02	5.7189E+02	7.7942E+02	1.0709E+03
3.1	5.2870E+02	7.2161E+02	9.9169E+02	1.3740E+03
3.2	6.6128E+02	9.1014E+02	1.2612E+03	1.7621E+03
3.3	8.2676E+02	1.1474E+03	1.6035E+03	2.2591E+03
3.4	1.0332E+03	1.4462E+03	2.0380E+03	2.8953E+03
3.5	1.2908E+03	1.8220E+03	2.5894E+03	3.7095E+03
3.6	1.6121E+03	2.2948E+03	3.2888E+03	4.7513E+03
3.7	2.0126E+03	2.8893E+03	4.1760E+03	6.0840E+03
3.8	2.5119E+03	3.6368E+03	5.3009E+03	7.7883E+03
3.9	3.1342E+03	4.5763E+03	6.7271E+03	9.9675E+03
4.0	3.9095E+03	5.7571E+03	8.5348E+03	1.2753E+04
4.1	4.8753E+03	7.2406E+03	1.0825E+04	1.6313E+04
4.2	6.0781E+03	9.1041E+03	1.3728E+04	2.0863E+04
4.3	7.5758E+03	1.1444E+04	1.7404E+04	2.6677E+04
4.4	9.4404E+03	1.4383E+04	2.2061E+04	3.4103E+04
4.5	1.1761E+04	1.8073E+04	2.7958E+04	4.3587E+04
4.6	1.4649E+04	2.2705E+04	3.5424E+04	5.5699E+04
4.7	1.8243E+04	2.8518E+04	4.4874E+04	7.1163E+04
4.8	2.2714E+04	3.5812E+04	5.6836E+04	9.0905E+04
4.9	2.8276E+04	4.4964E+04	7.1974E+04	1.1610E+05
5.0	3.5192E+04	5.6445E+04	9.1129E+04	1.4826E+05

		$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$				
		θ	135	140	145	150
		b				
	.0		7.1061E-01	8.1748E-01	9.5388E-01	1.1344E-00
	.1		7.4375E-01	8.5595E-01	9.9918E-01	1.1887E-00
	.2		8.4550E-01	9.7423E-01	1.1386E-00	1.3563E-00
	.3		1.0229E-00	1.1810E-00	1.3831E-00	1.6508E-00
	.4		1.2884E-00	1.4917E-00	1.7517E-00	2.0963E-00
	.5		1.6603E-00	1.9289E-00	2.2729E-00	2.7293E-00
	.6		2.1643E-00	2.5247E-00	2.9870E-00	3.6010E-00
	.7		2.8349E-00	3.3223E-00	3.9488E-00	4.7822E-00
	.8		3.7177E-00	4.3794E-00	5.2318E-00	6.3677E-00
	.9		4.8724E-00	5.7716E-00	6.9332E-00	8.4846E-00
1.0			6.3764E-00	7.5983E-00	9.1817E-00	1.1301E+01
1.1			8.3299E-00	9.9889E-00	1.2145E+01	1.5041E+01
1.2			1.0862E+01	1.3111E+01	1.6046E+01	2.0000E+01
1.3			1.4140E+01	1.7185E+01	2.1174E+01	2.6566E+01
1.4			1.8378E+01	2.2493E+01	2.7907E+01	3.5253E+01
1.5			2.3853E+01	2.9403E+01	3.6741E+01	4.6738E+01
1.6			3.0917E+01	3.8392E+01	4.8323E+01	6.1912E+01
1.7			4.0026E+01	5.0077E+01	6.3498E+01	8.1947E+01
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2.0			8.6335E+01	1.1053E+02	1.4338E+02	1.8924E+02
2.1			1.1136E+02	1.4369E+02	1.8785E+02	2.4983E+02
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4.2			2.0863E+04	3.2011E+04	4.9703E+04	7.8376E+04
4.3			2.6677E+04	4.1278E+04	6.4634E+04	1.0277E+05
4.4			3.4103E+04	5.3218E+04	8.4034E+04	1.3474E+05
4.5			4.3587E+04	6.8598E+04	1.0923E+05	1.7663E+05
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4.9			1.1610E+05	1.8904E+05	3.1140E+05	5.2078E+05
5.0			1.4826E+05	2.4347E+05	4.0448E+05	6.8218E+05

$$dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$$

b	θ 150	155	160	165
.0	1.1344E-00	1.3853E-00	1.7590E-00	2.3774E-00
.1	1.1887E-00	1.4523E-00	1.8447E-00	2.4940E-00
.2	1.3563E-00	1.6589E-00	2.1095E-00	2.8549E-00
.3	1.6508E-00	2.0229E-00	2.5771E-00	3.4937E-00
.4	2.0963E-00	2.5756E-00	3.2894E-00	4.4696E-00
.5	2.7293E-00	3.3643E-00	4.3100E-00	5.8734E-00
.6	3.6010E-00	4.4561E-00	5.7298E-00	7.8349E-00
.7	4.7822E-00	5.9438E-00	7.6749E-00	1.0535E+01
.8	6.3677E-00	7.9531E-00	1.0317E+01	1.4223E+01
.9	8.4846E-00	1.0653E+01	1.3889E+01	1.9238E+01
1.0	1.1301E+01	1.4270E+01	1.8705E+01	2.6040E+01
1.1	1.5041E+01	1.9105E+01	2.5187E+01	3.5249E+01
1.2	2.0000E+01	2.5562E+01	3.3900E+01	4.7708E+01
1.3	2.6566E+01	3.4173E+01	4.5601E+01	6.4548E+01
1.4	3.5253E+01	4.5650E+01	6.1306E+01	8.7299E+01
1.5	4.6738E+01	6.0936E+01	8.2372E+01	1.1802E+02
1.6	6.1912E+01	8.1283E+01	1.1061E+02	1.5949E+02
1.7	8.1947E+01	1.0835E+02	1.4846E+02	2.1546E+02
1.8	1.0838E+02	1.4435E+02	1.9917E+02	2.9096E+02
1.9	1.4326E+02	1.9219E+02	2.6707E+02	3.9279E+02
2.0	1.8924E+02	2.5577E+02	3.5797E+02	5.3008E+02
2.1	2.4983E+02	3.4021E+02	4.7962E+02	7.1515E+02
2.2	3.2965E+02	4.5231E+02	6.4237E+02	9.6455E+02
2.3	4.3477E+02	6.0110E+02	8.6004E+02	1.3005E+03
2.4	5.7313E+02	7.9852E+02	1.1510E+03	1.7532E+03
2.5	7.5519E+02	1.0603E+03	1.5401E+03	2.3628E+03
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2.7	1.3096E+03	1.8679E+03	2.7547E+03	4.2886E+03
2.8	1.7237E+03	2.4779E+03	3.6827E+03	5.7760E+03
2.9	2.2679E+03	3.2862E+03	4.9220E+03	7.7776E+03
3.0	2.9829E+03	4.3569E+03	6.5767E+03	1.0470E+04
3.1	3.9222E+03	5.7750E+03	8.7857E+03	1.4094E+04
3.2	5.1558E+03	7.6525E+03	1.1734E+04	1.8967E+04
3.3	6.7756E+03	1.0138E+04	1.5668E+04	2.5522E+04
3.4	8.9018E+03	1.3427E+04	2.0918E+04	3.4336E+04
3.5	1.1692E+04	1.7780E+04	2.7921E+04	4.6187E+04
3.6	1.5353E+04	2.3540E+04	3.7262E+04	6.2119E+04
3.7	2.0157E+04	3.1158E+04	4.9719E+04	8.3534E+04
3.8	2.6458E+04	4.1234E+04	6.6328E+04	1.1231E+05
3.9	3.4721E+04	5.4557E+04	8.8472E+04	1.5099E+05
4.0	4.5555E+04	7.2173E+04	1.1799E+05	2.0296E+05
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4.3	1.0277E+05	1.6691E+05	2.7962E+05	4.9259E+05
4.4	1.3474E+05	2.2066E+05	3.7269E+05	6.6182E+05
4.5	1.7663E+05	2.9167E+05	4.9669E+05	8.8909E+05
4.6	2.3151E+05	3.8548E+05	6.6185E+05	1.1942E+06
4.7	3.0339E+05	5.0939E+05	8.8182E+05	1.6040E+06
4.8	3.9752E+05	6.7304E+05	1.1747E+06	2.1542E+06
4.9	5.2079E+05	8.8915E+05	1.5648E+06	2.8927E+06
5.0	6.8219E+05	1.1744E+06	2.0841E+06	3.8842E+06

dP _{-1/2+ib} (cos θ)/dθ					
b	θ	165	170	175	180
.0		2.3774E-00	3.6058E-00	7.2695E-00	∞
.1		2.4940E-00	3.7839E-00	7.6303E-00	∞
.2		2.8549E-00	4.3354E-00	8.7484E-00	∞
.3		3.4937E-00	5.3131E-00	1.0733E+01	∞
.4		4.4696E-00	6.8111E-00	1.3781E+01	∞
.5		5.8734E-00	8.9728E-00	1.8191E+01	∞
.6		7.8349E-00	1.2005E+01	2.4396E+01	∞
.7		1.0535E+01	1.6198E+01	3.3006E+01	∞
.8		1.4223E+01	2.1953E+01	4.4866E+01	∞
.9		1.9238E+01	2.9816E+01	6.1138E+01	∞
1.0		2.6040E+01	4.0538E+01	8.3419E+01	∞
1.1		3.5249E+01	5.5136E+01	1.1389E+02	∞
1.2		4.7708E+01	7.4995E+01	1.5553E+02	∞
1.3		6.4548E+01	1.0199E+02	2.1242E+02	∞
1.4		8.7299E+01	1.3869E+02	2.9012E+02	∞
1.5		1.1802E+02	1.8855E+02	3.9622E+02	∞
1.6		1.5949E+02	2.5627E+02	5.4109E+02	∞
1.7		2.1546E+02	3.4824E+02	7.3887E+02	∞
1.8		2.9096E+02	4.7312E+02	1.0088E+03	∞
1.9		3.9279E+02	6.4263E+02	1.3773E+03	∞
2.0		5.3008E+02	8.7269E+02	1.8802E+03	∞
2.1		7.1515E+02	1.1848E+03	2.5666E+03	∞
2.2		9.6455E+02	1.6084E+03	3.5033E+03	∞
2.3		1.3005E+03	2.1830E+03	4.7814E+03	∞
2.4		1.7532E+03	2.9624E+03	6.5253E+03	∞
2.5		2.3628E+03	4.0194E+03	8.9045E+03	∞
2.6		3.1836E+03	5.4527E+03	1.2150E+04	∞
2.7		4.2886E+03	7.3959E+03	1.6578E+04	∞
2.8		5.7760E+03	1.0030E+04	2.2618E+04	∞
2.9		7.7776E+03	1.3600E+04	3.0857E+04	∞
3.0		1.0470E+04	1.8440E+04	4.2095E+04	∞
3.1		1.4094E+04	2.4998E+04	5.7421E+04	∞
3.2		1.8967E+04	3.3884E+04	7.8323E+04	∞
3.3		2.5522E+04	4.5923E+04	1.0682E+05	∞
3.4		3.4336E+04	6.2233E+04	1.4569E+05	∞
3.5		4.6187E+04	8.4327E+04	1.9869E+05	∞
3.6		6.2119E+04	1.1425E+05	2.7096E+05	∞
3.7		8.3534E+04	1.5477E+05	3.6949E+05	∞
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4.7		1.6040E+06	3.2061E+06	8.1930E+06	∞
4.8		2.1542E+06	4.3392E+06	1.1166E+07	∞
4.9		2.8927E+06	5.8723E+06	1.5219E+07	∞
5.0		3.8842E+06	7.9465E+06	2.0741E+07	∞

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This report presents tabulations of several different
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 θ are given in the range $-0.5 \leq \nu \leq 3.5$, $0 \leq \theta < 180^\circ$ at
intervals $\Delta\nu=0.02$, $\Delta\theta=2^\circ$. The tabular values are given
to six decimal places with a possible error of one in
the sixth digit. Second, the conical functions $P_{-\frac{1}{2}+ib}$
($\cos \theta$), and their derivatives $dP_{-\frac{1}{2}+ib}(\cos \theta)/d\theta$ for
real b and θ are given in the range $0 \leq b \leq 5$,
 $0 \leq \theta < 180^\circ$ at the somewhat coarser mesh, $\Delta b = 0.1$,
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