

Expected Values of Normal Order Statistics

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Expected values of normal order statistics

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1. HISTORY

The problem of order statistics has received a great deal of attention from statisticians dating at least as far back as a paper by Karl Pearson (1902) giving a solution of a generalization of a problem proposed by Galton (1902). The generalized problem is that of finding the average difference between the pth and the (p+1)th individuals in a sample of size n when the sample is arranged in order of magnitude. The result is

$$\frac{n}{(n-p)!\,p!}\int_{-\infty}^{\infty}\alpha^{n-p}(1-\alpha)^p\,dx,\tag{1.1}$$

where $\alpha = \int_{-\infty}^{x} \phi(x) dx$ and $\phi(x)$ is the probability density function of the variable x. Pearson stated a theorem, which he attributed to W. F. Sheppard, that the average differences between successive individuals are the successive terms in the binomial expansion of

$$\int_{-\infty}^{\infty} \{\alpha + (1+\alpha)\}^n dx. \tag{1.2}$$

In a footnote, Pearson remarked, 'Clearly a knowledge of the average difference in character of two adjacent individuals involves also a knowledge of the average difference in character between any two individuals'. For a symmetric population, such knowledge also involves a knowledge of the expected values of all the order statistics, since for odd sample sizes n = 2k + 1, where k is an integer, $E(x_{k+1}) = \mu$ (the population mean), while for even sample sizes n = 2k, $\frac{1}{2}[E(x_k) + E(x_{k+1})] = \mu$.

Irwin (1925) gave expressions for the mean difference between the pth and qth individuals in order of magnitude and for the moments of the frequency distribution of differences between consecutive individuals. Tippett (1925) published a seven-decimal-place table of the probability integral of the largest individual in samples of size n from a normal population for $n=3,5,10 \text{ and } x=-2\cdot6 \, (0\cdot2) \, 5\cdot8;$

$$n = 20, 30, 50$$
 and $x = -0.1(0.1)6.0$; $n = 100(100)1000$ and $x = 1.0(0.1)6.5$.

The same paper included a five-decimal-place table of the mean range of samples of size n = 2(1)100 from a normal population from which the expected values of the largest and smallest individuals could of course be derived. The expected values of normal order statistics other than the first and last were not computed until somewhat later.

Karl Pearson & Margaret V. Pearson (1931) obtained an expansion in Taylor series for $E(x_i)$, accurate to 5 or 6 decimal places for $|E(x_i)|$ not too large (say < 1). Fisher & Yates (1938, Table XX) published a two-decimal-place table of the expected values of all normal order statistics for samples of size n = 2 (1) 50. Their values are correct except for four errors of a unit in the last place, due to rounding. Hastings, Mosteller, Tukey & Winsor (1947)

published a five-decimal-place table of the means and standard deviations of all order statistics for samples of size n=2 (1) 10 from a normal population, also from a uniform population and from a selected long-tailed population. Their values for the means of normal order statistics are correct except for n=10, where there are errors of from 1 to 7 units in the last place.

Wilks (1948) published an expository paper summarizing work on order statistics up to that time and listing 90 references.

Godwin (1949a) published a table of the expected values of rank differences in normal samples, to 10 decimal places for n=2; 9 decimal places for n=3,4; 8 decimal places for n=5; 7 decimal places for n=6,7; 6 decimal places for n=8; and 5 decimal places for n=9,10. Godwin (1949b) also published a seven-decimal-place table of the means and standard deviations of all normal order statistics for samples of size n=2(1)10. His values for the means of the first-order statistics are accurate to 7 decimal places, and his other values are probally equally accurate, since they were computed by the same method. Cadwell (1953) published a table of moments (mean, variance, β_1 and β_2) and selected percentage points of the first quasi-range for samples of size n=10(1)30. His values of the means are correct except for one error of a unit in the last place, due to rounding. E. S. Pearson & Hartley (1954, Table 28) published a table of expected values of normal order statistics, to 3 decimal places for n=2(1)20 and to 2 decimal places for

$$n = 21(1)26(2)50;$$

values for $n=2\,(1)\,10$ were compiled from Godwin's table, those for $n=11\,(1)\,20$ were freshly computed by Jean H. Thompson, while those for n>20 were taken from the table by Fisher and Yates. These values are correct except for three errors of a unit in the last place, due to rounding. Harter (1959) published a six-decimal-place table (accurate to within a unit in the last place) of the expected values of the range and of the first 8 quasiranges for samples of size $n=2\,(1)\,100$ taken from a normal population. By dividing these values by two, the expectations of the absolute values of the nine largest and the nine smallest normal deviates can be obtained.

Federer (1951) used a somewhat different approach than did most of the aforementioned authors, who depended largely on numerical integration for the determination of tabular values. Federer made use of the recurrence formula

$$E(x_{m,i+1}) = \frac{1}{i} \{ mE(x_{m-1,i}) - (m-i) E(x_{m,i}) \},$$
 (1.3)

where $x_{m,i}$ is the *i*th largest deviate from a sample of size m. Starting from Tippett's table of expected values of the range, Federer computed three-decimal-place values of the three largest normal deviates for samples of size n = 41(1)200 and two-decimal-place values of the fourth largest normal deviate for n = 41(1)200 and of the fifth largest normal deviate for n = 41(1)100. Because of loss of accuracy with repeated application of the recurrence formula, some of Federer's values are in error by from 1 to 3 units in the last place, and it is evident that the form of the recurrence formula given by (1·3) is of little value in computation. The author is indebted to the Editor for pointing out that, if written in the form

$$E(x_{m-1,i}) = \frac{1}{m} \{ i E(x_{m,i+1}) + (m-i) E(x_{m,i}) \}, \tag{1.4}$$

the recurrence formula can be used for working downwards with no serious accumulation

of rounding errors. Similar recurrence formulae for the variance and covariance of order statistics have recently been obtained by Govindarajulu (1959).

2. METHOD OF COMPUTATION

The expected value of the kth largest observation in a sample of size n from a standard normal population (mean zero and variance one) is given by the equation

$$E(x_{k|n}) = \frac{n!}{(n-k)!(k-1)!} \int_{-\infty}^{\infty} x \left[\frac{1}{2} - \Phi(x)\right]^{k-1} \left[\frac{1}{2} + \Phi(x)\right]^{n-k} \phi(x) dx, \tag{2.1}$$

where $\phi(x) = (2\pi)^{-\frac{1}{2}}e^{-\frac{1}{2}x^2}$ and $\Phi(x) = \int_0^x \phi(x) dx$. The expected value of the kth smallest observation is given by the same expression preceded by a minus sign, so that for a given value of n it is necessary only to compute the expected values for k = 1 (1) $[\frac{1}{2}n]$. This was done by numerical integration on the Univac Scientific (ERA 1103 A) computer, for n = 2 (1) 100 and for values of n, none of whose prime factors exceeds seven, up through n = 400. Values of $\log_{10} n!$ for n = 1 (1) 400 from a table by Pearson & Hartley (1954) and values of $\phi(x) = \phi(-x)$ for x = 0 (0·05) 7·60, $2\Phi(x) = -2\Phi(-x)$ for x = 0 (0·05) 5·95, and $1-2\Phi(x) = 1+2\Phi(-x)$ for $x = 6\cdot00$ (0·05) 7·60 from tables by the National Bureau of Standards (1953, Tables I and II) were read into the computer. For each pair of values of n and n, the product n in n i

$$\log_{e} I(n, k, x) = \log_{e} n! - \log_{e} (n - k)! - \log_{e} (k - 1)! + \log_{e} x + (k - 1) \log_{e} \left[\frac{1}{2} - \Phi(x)\right] + (n - k) \log_{e} \left[\frac{1}{2} + \Phi(x)\right] + \log_{e} \phi(x). \quad (2.2)$$

Fixed-point binary arithmetic was used, and the numbers were scaled so as to retain as much accuracy as possible. Since I(n,k,x) is zero (to the number of places carried in the computer) for all values of n and k when |x| > 7.60, the resulting value of $E(x_{k|n})$, obtained by using either the trapezoidal rule or the seven-point Lagrangian integration formula, is found by summing I(n,k,x) for x = -7.60 (h) 7.60 and multiplying by the interval, h. Results were computed and printed out (to seven decimal places) for h = 0.05 and h = 0.10, and agreement is sufficiently close to guarantee that the values of $E(x_{k|n})$ for h = 0.05 are accurate to within a unit in the fifth decimal place. Accordingly, the values for h = 0.05 were rounded to five decimal places, and the five-decimal-place values were punched on cards and printed on the IBM 407 tabulator. The results for n = 2 (1) 100 (25) 250 (50) 400 are shown in Table 1.

Acknowledgment, with thanks, is made to Eugene H. Guthrie, who programmed the problem for computation on the ERA 1103 A.

3. Blom's approximation

In 1954 Blom became interested in the problem of plotting points on normal probability paper and, after reading a paper by Chernoff & Lieberman (1954), in the related problem of estimating parameters by means of linear functions of order statistics, Blom (1958) proposed approximating the ith normal order statistic (ith smallest normal deviate) for a sample of size n by means of the relation

$$E(x_i) = \Phi^{-1}\left(\frac{i-\alpha}{n-2\alpha+1}\right),\tag{3.1}$$

where $\Phi(x) = \int_{-\infty}^{x} \phi(x) dx$, with $\phi(x) = (2\pi)^{-\frac{1}{2}} e^{-\frac{1}{2}x^2}$. Note that $\Phi(x)$ is defined differently here than in § 2. It should be mentioned that there has been an argument of long-standing between advocates of the approximations corresponding to $\alpha = 0$ and $\alpha = 0.5$, neither of which is correct. Blom tabulated the value of α required to yield the correct value of $E(x_i)$ for i = 1 (1) $[\frac{1}{2}n]$ when n = 2 (2) 10 (5) 20. The values of α increase as n increases, the lowest value being 0.330 for n = 2, i = 1. For a given n, α is least for i = 1, rises quickly to a peak

	Table :	2. Value	es of $\alpha_{i,n}$	such that	$E(x_i) = 0$	$\Phi^{-1}[(i -$	$(\alpha_{i,n})/(n-$	$-2\alpha_{i,n}+1$	l)]
i	n = 25	n = 50	n = 100	n = 200	n = 400	i	n = 100	n = 200	n = 400
1	0.377	0.384	0.391	0.396	0.401	30	0.394	0.404	0.414
2	·394	·403	·412	· 419	$\cdot 426$	35	$\cdot 393$	· 4 02	·412
3	·395	·405	·415	·423	· 430	40	.392	·400	·410
4	·394	·405	·415	·424	· 431	45	·391	·398	·408
5	·392	· 4 03	·414	· 423	· 431	50	·391	·397	· 4 07
6	0.391	0.402	0.412	0.422	0.430	55		0.396	0.405
7	· 3 90	· 4 00	·411	$\cdot 421$	$\cdot 429$	60		$\cdot 395$	·404
8	.389	$\cdot 399$	·410	· 420	$\cdot 429$	65		·394	•403
9	•388	$\cdot 398$	· 4 08	· 418	$\cdot 428$	70		·394	$\cdot 402$
10	·388	·397	· 4 07	·417	·427	75		•393	· 4 01
11	0.387	0.396	0.406	0.416	0.426	80		0.393	0.400
12	·387	$\cdot 395$	· 4 05	·415	$\cdot 425$	85		$\cdot 392$	$\cdot 399$
13		·394	· 404	·414	· 424	90		$\boldsymbol{\cdot 392}$	$\cdot 399$
14		$\cdot 393$	· 4 03	·414	$\cdot 423$	95		$\cdot 391$	$\cdot 398$
15		•393	· 4 02	· 4 13	· 423	100	_	·391	· 3 98
16		0.392	0.402	0.412	0.422	110	_		0.396
17		$\cdot 392$	· 4 01	· 4 11	· 421	120		_	$\cdot 396$
18		$\cdot 391$	· 4 00	· 410	$\cdot 420$	130			$\cdot 395$
19		$\cdot 391$	$\cdot 399$	· 410	$\cdot 420$	140			$\cdot 394$
20		•391	•399	· 4 09	· 4 19	150		_	·394
21		0.390	0.398	0.408	0.419	160	_		0.393
22		$\cdot 390$	$\cdot 398$	· 40 8	·418	170			$\cdot 393$
23		·390	$\cdot 397$	· 4 07	· 417	180			$\cdot 392$
24		•390	$\cdot 397$	· 4 07	· 417	190			$\boldsymbol{\cdot 392}$
25		•390	·396	· 4 06	·416	200			·391

for a relatively small value of i, and then drops off slowly; as an example, for n = 20, $\alpha = 0.374$ for i = 1, the peak value of α is 0.391 for i = 3, and α drops to 0.386 for i = 8, 9, 10. Blom conjectured that α always lies in the interval (0.33, 0.50). He suggested the use of $\alpha = \frac{3}{6}$ as a compromise value.

If one solves (3·1) for the value of α required to yield the correct value of $E(x_i)$ for given i and n, one obtains

$$\alpha_{i,n} = \frac{i - (n+1) \Phi[E(x_i)]}{1 - 2\Phi[E(x_i)]}.$$
 (3.2)

Values of $\alpha_{i,n}$ for i=1 (1) $\left[\frac{1}{2}n\right]$ when n=25,50,100,200,400 have been computed on the Burroughs E 101–3 computer, and the results, rounded to three decimal places, are shown in Table 2. For brevity, results have been given only for values of i which are multiples of 5 for i between 25 and 100 and multiples of 10 for i between 100 and 200. A glance at the values in Table 2 is sufficient to show that the compromise value of $\frac{3}{8}$ or 0·375 for α proposed by Blom

is too low except for small values of n. If, however, one wishes to minimize the maximum error in estimating $E(x_i)$ for $n \leq 400$, one is led to choose a value of α even small than $\frac{3}{8}$, since the estimate of $E(x_i)$ is much more sensitive to changes in α for small values of n (and i) than for large values. The maximum error in estimating $E(x_i)$ is minimized by choosing $\alpha = 0.363$. This gives a maximum error of 0.018, which is hardly satisfactory. It is possible, however, to do a fairly good job of estimating $E(x_i)$ by choosing one or two compromise values of α for each n. One can choose a single compromise value, α_n , for each n, to be used for all values of i, and simultaneously insure that the error in $E(x_i)$ does not exceed four units in the third decimal place. If one uses $\alpha_{1,n}$ to estimate $E(x_1)$ and $\alpha_{2,n}$ to estimate $E(x_i)$ for $i \neq 1$, the error in $E(x_i)$ will not exceed one unit in the third decimal place. Values of α_n , $\alpha_{1,n}$ and $\alpha_{2,n}$ are given in Table 3 for n = 2(2)10(5)25,50,100,200,400 along with regression equations

Table 3. Compromise values of α

\boldsymbol{n}	α_n	$\alpha_{1,n}$	$\alpha_{2,n}$	
2	0.330	0.330		
4	•349	$\cdot 347$	0.359	
6	$\cdot 359$	$\cdot 355$.368	Me antiquate a few intermediate malace of a use the
8	·364	·360	$\cdot 374$	To estimate α for intermediate values of n , use the following equations:
10	0.368	0.364	0.378	0.914107 + 0.049994W
15	$\cdot 374$	$\cdot 370$	$\cdot 385$	$\alpha_n = 0.314195 + 0.063336X - 0.010895X^2,$
20	$\cdot 378$	$\cdot 374$	$\cdot 390$	$\alpha_{1,n} = 0.315065 + 0.057974X - 0.009776X^2,$
25	•381	.377	•394	$\alpha_{2,n} = 0.327511 + 0.058212X - 0.007909X^{2},$ where $X = \log_{10} n.$
50	0.389	0.384	0.403	
100	•396	$\cdot 391$	·412	
200	$\cdot 402$	•396	· 4 19	
400	· 4 07	· 4 01	· 4 26	

to be used for intermediate values of n. Values of α found by substituting tabular values of n in these regression equations do not differ from the corresponding tabular values of α by more than two units in the third decimal place, and this error in α does not increase the error in $E(x_i)$ by more than one unit in the third decimal place. There is reason to believe that results for intermediate values of n will be equally good, but use of these equations for n > 400 is emphatically discouraged. Thus, if one wishes to interpolate for intermediate values of n, the maximum errors are two units in the third decimal place for the approximation based on a single compromise value of α and five units in the third decimal place for the approximation based on two compromise values of α . These errors compare with a maximum error of between one and two units in the third decimal place for linear interpolation between successive value of n for a given i(k) in Table 1. Comparison of the maximum errors might lead to the conclusion that interpolation in Table 1 is always more accurate than interpolation using Blom's approximation This would be erroneous, since the maximum error for the former occurs for large values of i (near $\frac{1}{2}n$), while the maximum error for the latter occurs for small values of i. Interpolation using Blom's approximation for large values of i, especially when the desired value of n lies about midway between widely separated successive tabular values of n (for example, when n=232), and interpolation in Table 1 otherwise will limit the error to no more than a unit in the third decimal place. If more accurate values are required, they should be computed in the same way that Table 1 was computed, as should values for n > 400, or else they should be computed by working downwards from the next higher tabular value of n, using the recurrence formula (1.4). Table 4 summarizes the above results, giving maximum errors in determining $E(x_i)$ by various methods.

Table 4. Maximum errors in determining $E(x_i)$ by various methods

Method	Values of n in Table 3	Intermediate values of n
Blom's approximation:		
$\alpha = 0.363$ for all values of n	0.018	0.018
One value of α for each n	•004	.005
Two values of α for each n	.001	.002
Interpolation in Table 1	*****	.002
Recurrence formula (1·4)	.00001	•00001
Numerical integration ($h = 0.05$)	< .00001	< .00001

4. APPLICATIONS

Pearson & Hartley (1954, p. 56) have given two examples of applications of tables of expected values of normal order statistics. The first of these is concerned with estimating the weight of the five heaviest of 30 lambs at age $2\frac{1}{2}$ months, given the mean and standard deviation of the population, which is assumed to be normal. The second deals with the use of order statistics in estimating the population standard deviation. Pearson & Hartley and also Fisher & Yates (1953, p. 76) mention the use of expected values of normal order statistics in the analysis of variance of ranked data. The potential use of expected values of normal order statistics for transformation to standard normal scores preliminary to the analysis of variance was the principal motivation for the present study. In cases where only the rank of the observations is known, there is no reasonable alternative to transformation to standard normal scores, but the usefulness of this method is not restricted to such cases. When the data are known to have come from a population which does not satisfy the assumptions underlying the analysis of variance, of which normality is one, or when the data themselves give a strong indication to that effect, the experimenter seeks a transformation which will minimize or eliminate departures from the assumptions. One transformation which should be considered is the transformation to standard normal scores, and a preliminary investigation has shown that this transformation has some very desirable properties; in some cases it reduces both non-additivity and non-homogeneity of variance to lower levels than does any transformation of the form $(x+c)^p$. It has, of course, the obvious disadvantage of not being reversible.

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ADDENDUM

An account of methods of computing expected values of normal order statistics would be incomplete without mention of the series expansions worked out by David & Johnson (1954) and by Plackett (1958). Saw (1960) has made a comparison of the David–Johnson series and the Plackett series. Neither series seems particularly well adapted to the computation of tables of the sort included in this paper, though either would be quite useful in obtaining very accurate expected values for isolated cases. The author wishes to thank Dr F. N. David for drawing his attention to these papers.

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Table 1. Expected values of normal order statistics (see overleaf)

$$E(x_{k|n}) = \frac{n!}{(n-k)! (k-1)!} \int_{-\infty}^{\infty} x [\frac{1}{2} - \Phi(x)]^{k-1} [\frac{1}{2} + \Phi(x)]^{n-k} \phi(x) dx,$$

$$\phi(x) = (2\pi)^{-\frac{1}{2}} e^{-\frac{1}{2}x^2} \quad \text{and} \quad \Phi(x) = \int_{0}^{x} \phi(x) dx.$$

where

[Tabular values are the expected values of the kth largest normal deviate for a sample of size n from N(0, 1); or when preceded by a minus sign, they are the expected values of the kth smallest normal deviate.]

		2	3	4	5	6	7	8	9
		0·56419 — — — —	0·84628 ·00000 —— ——	1·02938 0·29701 ————————————————————————————————————	1·16296 0·49502 ·00000	1·26721 0·64176 ·20155 —	1·35218 0·75737 ·35271 ·00000	1·42360 0·85222 ·47282 ·15251	1·48501 0·93230 ·57197 ·27453 ·00000
10	11	12	13	14	15	16	17	18	19
1·53875 1·00136 0·65606 ·37576 ·12267	1.58644 1.06192 0.72884 .46198 .22489	1.62923 1.11573 0.79284 .53684 .31225	1.66799 1.16408 0.84983 .60285 .38833	1·70338 1·20790 0·90113 ·66176 ·45557	1·73591 1·24794 0·94769 ·71488 ·51570	1·76599 1·28474 0·99027 ·76317 ·57001	1·79394 1·31878 1·02946 0·80738 ·61946	1·82003 1·35041 1·06573 0·84812 ·66479	1·84448 1·37994 1·09945 0·88586 ·70661
_ _ _ _	0·00000 — — — —	0·10259 — — — —	0·19052 ·00000 — —	0·26730 0·08816 — —	0·33530 ·16530 ·00000 —	0·39622 ·23375 ·07729 —	0·45133 ·29519 ·14599 ·00000	0·50158 ·35084 ·20774 ·06880	0·54771 ·40164 ·26374 ·13072 ·00000
20	21	22	23	24	25	26	27	28	29
1.86748 1.40760 1.13095 0.92098 .74538	1.88917 1.43362 1.16047 0.95380 .78150	1.90969 1.45816 1.18824 0.98459 .81527	1·92916 1·48137 1·21445 1·01356 0·84697	1.94767 1.50338 1.23924 1.04091 0.87682	1.96531 1.52430 1.26275 1.06679 0.90501	1.98216 1.54423 1.28511 1.09135 0.93171	1·99827 1·56326 1·30641 1·11471 0·95705	2·01371 1·58145 1·32674 1·13697 0·98115	2·02852 1·59888 1·34619 1·15822 1·00414
0·59030 ·44833 ·31493 ·18696 ·06200	0.62982 .49148 .36203 .23841 .11836	0.66667 .53157 .40559 .28579 .16997	0·70115 ·56896 ·44609 ·32965 ·21755	0·73354 ·60399 ·48391 ·37047 ·26163	0·76405 ·63690 ·51935 ·40860 ·30268	0·79289 ·66794 ·55267 ·44436 ·34105	0·82021 ·69727 ·58411 ·47801 ·377(6	0·84615 ·72508 ·61385 ·50977 ·41096	0·87084 ·75150 ·64205 ·53982 ·44298
_ _ _ _	0.00000 — — — —	0·05642 — — — —	0·10813 ·00000 — —	0·15583 ·05176 — — —	0·20006 ·09953 ·00000 —	0·24128 ·14387 ·04781	0·27983 ·18520 ·09220 ·00000	0·31603 ·22389 ·13361 ·04442	0·35013 ·26023 ·17240 ·08588 ·00000
30	31	32	33	34	35	36	37	38	39
2·04276 1·61560 1·36481 1·17855 1·02609	2·05646 1·63166 1·38268 1·19803 1·04709	2·06967 1·64712 1·39985 1·21672 1·06721	2·08241 1·66200 1·41637 1·23468 1·08652	2·09471 1·67636 1·43228 1·25196 1·10509	2·10661 1·69023 1·44762 1·26860 1·12295	2·11812 1·70362 1·46244 1·28466 1·14016	2·12928 1·71659 1·47676 1·30016 1·15677	2·14009 1·72914 1·49061 1·31514 1·17280	2·15059 1·74131 1·50402 1·32964 1·18830
0·89439 ·77666 ·66885 ·56834 ·47329	0.91688 -80066 -69438 -59545 -50206	0.93841 .82359 .71875 .62129 .52943	0.95905 .84555 .74204 .64596 .55552	0.97886 .86660 .76435 .66954 .58043	0.99790 .88681 .78574 .69214 .60427	1.01624 0.90625 .80629 .71382 .62710	1·03390 0·92496 ·82605 ·73465 ·64902	1.05095 0.94300 .84508 .75468 .67009	1·06741 0·96041 ·86343 ·77398 ·69035
0·38235 ·29449 ·20885 ·12473 ·04148	0·41287 ·32686 ·24322 ·16126 ·08037	0·44185 ·35755 ·27573 ·19572 ·11695	0·46942 •38669 •30654 •22832 •15147	0·49572 ·41444 ·33582 ·25924 ·18415	0.52084 .44091 .36371 .28863 .21515	0.54488 .46620 .39032 .31663 .24463	0.56793 $\cdot 49042$ $\cdot 41576$ $\cdot 34336$ $\cdot 27272$	0·59005 ·51363 ·44012 ·36892 ·29954	0·61131 ·53592 ·46348 ·39340 ·32520
_ _ _ _	0-00000 	0·03890 — — — —	0.07552 .00000 — — —	0·11009 ·03663 — — —	0·14282 ·07123 ·00000	0·17388 ·10399 ·03461 —	0·20342 ·13509 ·06739 ·00000	0·23159 ·16469 ·09853 ·03280	0·25849 ·19292 ·12817 ·06395 ·00000
	1.53875 1.00136 0.65606 .37576 .12267	1.53875	10	10	10	10	1.53875	10	1-63875

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n	40	41	42	43	44	45	46	47	48	49
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1	2.16078	2.17068	2.18032	2.18969	2.19882	2.20772	2.21639	2.22486	2.23312	2.24119
2	1.75312	1.76458	1.77571	1.78654	1.79707	1.80733	1.81732	1.82706	1.83655	1.84582
3	1.51702	1.52964	1.54188	1.55377	1.56533	1.57658	1.58754	1.59820	1.60860	1.61874
4	1.34368	1.35728	1.37048	1.38329	1.39574	1.40784	1.41962	1.43108	1.44224	1.45312
5	1.20330	1.21782	1.23190	1.24556	1.25881	1.27170	1.28422	1.29641	1.30827	1.31983
6	1.08332	1.09872	1.11364	1.12810	1.14213	1.15576	1.16899	1.18186	1.19439	1.20658
7	0.97722	0.99348	1.00922	1.02446	1.03924	1.05358	1.06751	1.08104	1.09420	1.10701
8	·88114	·89825	0.91480	0.93082	0.94634	0.96139	0.97599	0.99018	1.00396	1.01737
9	•79259	·81056	.82792	.84472	·86097	·87673	·89201	•90684	0.92125	0.93525
10	•70988	.72871	·74690	.76448	·78148	•79795	·81391	·82939	·84442	·85902
11	0.63177	0.65149	0.67052	0.68889	0.70666	0.72385	0.74049	0.75663	0.77228	0.78748
12	.55736	.57799	.59788	.61707	.63561	.65353	.67088	.68768	.70397	.71978
13	•48591	.50749	.52827	.54830	.56763	.58631	.60438	.62186	.63881	.65523
14	·41688	· 43 944	·46114	•48204	.50220	.52166	•54046	.55865	.57625	•59331
15	•34978	•37337	39604	•41784	•43885	•45912	·47868	•49759	.51588	.53360
16	0.28423	0.30890	0.33257	0.35533	0.37723	0.39833	0.41868	0.43834	0.45734	0.47573
17	21988	24569	27043	29418	31701	33898	36016	•38060	•40034	•41942
18	.15644	·18345	.20931	.23411	25792	28081	.30285	.32410	•34460	.36441
19	.09362	.12192	.14897	.17488	.19972	•22358	.24652	.26862	.28992	·31049
20	.03117	∙06085	∙08917	·11625	·14219	·16707	·19097	·21396	·23610	.25746
21		0.00000	0.02969	0.05803	0.08513	0.11109	0.13600	0.15993	0.18296	0.20514
22		0.00000	0.02909	00000	0.08313	0.11109	0.13000	10637	13033	15338
23				_	- 02000	.00000	.02712	.05311	.07805	·10203
24					-	_		.00000	.02599	.05095
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	0.04005	0.05050	0.00400	0.05100	0.05001	0.00500	0.00007	0.000=0	0.00007	2 21 222
1 2	2.24907 1.85487	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2.26432 1.87235	2.27169 1.88080	2.27891	2.28598 1.89715	2.29291	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2.30635	$2.31288 \\ 1.92786$
3	1.62863	1.63829	1.64773	1.65695	1.88906 1.66596	1.67478	1.90506 1.68340	1.69185	1.92041 1.70012	1.70822
4	1.46374	1.47409	1.48420	1.49407	1.50372	1.51315	1.52237	1.53140	1.54024	1.54889
5	1.33109	1.34207	1.35279	1.36326	1.37348	1.38346	1.39323	1.40278	1.41212	1.42127
6	1.21846	1.23003	1.04199	1.07094	1.00910	1.07961	1 00007	1 00001	1 90959	1 91994
7	1.11948	1.13162	1·24132 1·14347	1.25234 1.15502	1.26310 1.16629	1.27361 1.17729	1.28387 1.18804	$1.29391 \\ 1.19855$	$1.30373 \\ 1.20882$	1·31334 1·21886
8	1.03042	1.04312	1.05550	1.06757	1.07934	1.09083	1.10205	1.11300	1.12371	1.13419
9	0.94887	0.96213	0.97504	0.98762	0.99988	1.01185	1.02352	1.03493	1.04607	1.05695
10	·87321	·88701	·900 4 5	·91354	$\cdot 92629$	0.93873	0.95086	0.96271	0.97427	0.98557
11	0.80225	0.81661	0.02050	0.04417	0.05749	0.87033	0.00000	0.00500	0.00710	0.01000
12	·73513	·75004	$0.83058 \\ \cdot 76455$	0·84417 ·77866	$0.85742 \\ \cdot 79240$	·80578	0·88292 ·81883	$0.89520 \\ \cdot 83155$	$0.90719 \\ .84397$	$0.91890 \\ \cdot 85609$
13	.67117	.68666	.70170	.71633	.73057	.74444	.75794	·77111	.78396	·79649
14	.60986	.62592	.64152	-65668	.67143	.68578	-69976	$\cdot 71337$	$\cdot 72665$.73960
15	.55077	.56742	.58358	.59928	.61455	$\cdot 62940$	·6 43 85	$\cdot 65793$	·67164	.68502
16	0.49354	0.51080	0.52755	0.54380	0.55960	0.57495	0.58989	0.60444	0.61060	0.69941
17	·43789	·45578	·47312	·48995	·50629	$0.57495 \\ \cdot 52217$	·53761	$0.60444 \\ .55263$	$0.61860 \\ .56725$	$0.63241 \\ .58150$
18	.38357	•40211	.42007	.43749	.45439	·47080	.48675	.50226	.51736	.53205
19	.33036	.34957	.36818	38621	·40369	·42065	.43713	.45314	.46872	.48388
20	·27807	29799	·31726	·33592	·35400	·37154	·38856	·40510	.42117	·43681
21	0.22653	0.24719	0.26716	0.28648	0.30518	0.32331	0.34090	0.35797	0.37456	0.39068
22	17559	$\cdot 19702$	21772	23772	25708	27583	29400	31163	32875	•34538
23	·12511	.14735	·16880	18953	.20957	22896	.24774	$\cdot 26595$	$\cdot 28362$.30078
24	.07494	.09803	·12029	.14177	$\cdot 16252$	$\cdot 18259$.20201	$\cdot 22082$	$\cdot 23906$	$\cdot 25677$
25	.02496	.04896	.07206	.09434	·11584	·13661	·15669	·17614	·19 4 98	.21325
26		0.00000	0.02400	0.04712	0.06940	0.09091	0.11170	0.13180	0.15127	0.17013
27				000000	00340	003031	06693	013130	10785	12733
28		_				.00000	.02229	.04382	.06463	.08476
29	-							.00000	.02153	.04234
30		-	-			-				.00000
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	0.01000	0.00550	0.00170	0.00==0	0.040=0	2 240 20	0.05500	2 2222		
1 2	$2.31928 \ 1.93516$	$2.32556 \\ 1.94232$	2.33173	$2.33778 \ 1.95624$	2.34373	2.34958	$2.35532 \\ 1.97618$	2.36097	2.36652	2.37199
3	1.71616	1.72394	1·94934 1·73158	1.73906	1·96301 1·74641	$1.96965 \\ 1.75363$	1.76071	1·98260 1·76767	1·98891 1·77451	$1.99510 \ 1.78122$
4	1.55736	1.56567	1.57381	1.58180	1.58963	1.59732	1.60487	1.61228	1.61955	1.62670
5	1.43023	1.43900	1.44760	1.45603	1.46430	1.47241	1.48036	1.48817	1.49584	1.50338
6	1.32274	1.33195	1.34097	1.34982	1.35848	1.36698	1.37532	1.38351	1.39154	1.39942
7	1.22869	1.23832	1.24774	1.25698	1.26603	1.27490	1.28360	1.29213	1.30051	1.30873
8	1.14443	1.15445	1.16427	1.17388	1.18329	1.19252	1.20157	1.21044	1.21915	1.22769
9	1.06760	1.07802	1.08821	1.09819	1.10797	1.11754	1.12693	1.13613	1.14516	1.15401
10	0.99662	1.00742	1.01799	1.02833	1.03846	1.04838	1.05810	1.06762	1.07696	1.08612
11	0.93034	0.94153	0.95247	0.96317	0.97365	0.98391	0.99395	1.00380	1.01345	1.02291
12	·86793	·87950	⋅89081	·90187	$\cdot 91270$	$\cdot 92329$	·93367	0.94383	0.95379	0.96355
13	·80873	·82068	$\cdot 83237$	·8 437 9	$\cdot 85496$	$\cdot 86590$	·87660	·88708	·89735	.90741
14	.75224	•76459	•77665	•78843	•79996	·81123	·82226	·83306	·84364	·85400
15	⋅69807	·71081	·72324	·7 3 540	·74727	·75889	·77025	·78138	·79226	·80293
16	0.64587	0.65901	0.67183	0.68436	0.69659	0.70856	0.72025	0.73170	0.74290	0.75387
17	·59538	·60893	·62214	·63504	.64764	.65996	•67200	•68377	•69529	.70657
18 19	·54637 ·49864	·56033 ·51303	$.57395 \\ .52705$	·58723 ·54073	·60020 ·55408	$.61288 \\ .56712$	·62526 ·57985	$.63737 \\ .59230$	·64921	.61628
20	·45202	·46685	·48129	.49537	.50911	.52252	.53561	.54841	·60447 ·56091	·61638 ·57314
21	0.40637	0.42164	0.43652	0.45101	0.46515	0.47894	0.49240	0.50555	0.51839	0.53095
22	36155	37729	39260	$\cdot 40752$	$\cdot 42207$	·43625	•45009	·46360	·47680	·48969
23	·31745	·33366	·34944	·36480	·37976	.39435	·40857	$\cdot 42245$	·43601	·449 2 5
24	·27396	·29066	·30691	$\cdot 32272$.33812	·35312	·36775	·38201	$\cdot 39594$	·40953
25	·23098	·24820	·26494	·28122	·29706	·31249	·32753	·34219	· 3 56 4 9	·37045
26	0.18842	0.20618	0.22343	0.24019	0.25650	0.27237	0.28784	0.30290	0.31759	0.33192
27	·14621	.16452	·18230	·19957	.21636	$\cdot 23269$.24859	.26408	.27917	.29389
28	·10425	·12315	.14148	.15927	.17656	.19337	.20973	•22565	.24116	•25627
29 30	·06248 ·02081	·08198 ·04096	·10089 ·06047	·11923 ·07938	·13704 ·09774	·15435 ·11556	·17118 ·13288	·18755 ·14972	·20349 ·16611	·21902 ·18207
31		0.00000	0.02014	0.03966	0.05858	0.07694	0.09478	0.11211	0.12896	0.14536
32	_	_	- 0.02011	.00000	.01952	.03844	05681	.07465	09199	10885
33	l —		l	1		•00000	∙01893	09790		0-010
34				_		00000	01000	·03730	.05514	•07249
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35			_		_	— —	— —			
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35	70	71	72	73	74	75	76			·036 22
35 n k						75	76	·00000 — 77	·01837 — — 78	-03622 -00000
35 n k	2.37736	2.38265	2.38785	2.39298	2.39802	75 2·40299	76 	-00000 	-01837 	.03622 .00000 79 2.42215
35 n k	2·37736 2·00120	2·38265 2·00720	2·38785 2·01310	2·39298 2·01890	2·39802 2·02462	75 2·40299 2·03024	76 2·40789 2·03578	.00000 	-01837 	.03622 .00000 79 2.42215 2.05191
35 n k 1 2	2.37736	2.38265	2.38785	2.39298	2·39802 2·02462 1·81317	75 2·40299	76 	-00000 	-01837 	.03622 .00000 79 2.42215
35 n k 1 2 3	2·37736 2·00120 1·78783	2·38265 2·00720 1·79432	2·38785 2·01310 1·80071	2·39298 2·01890 1·80699	2·39802 2·02462	75 2.40299 2.03024 1.81926	76 2.40789 2.03578 1.82525	.00000 	78 2.41747 2.04662 1.83696	.03622 .00000 79 2.42215 2.05191 1.84268
35 n k 1 2 3 4 5 6	2·37736 2·00120 1·78783 1·63373 1·51078	2·38265 2·00720 1·79432 1·64063	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226	2·39298 2·01890 1·80699 1·65410	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684	75 2·40299 2·03024 1·81926 1·66714 1·54594 1·44395	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094	.00000 	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459	79 2.42215 2.05191 1.84268 1.69200
35 n k 1 2 3 4 5 6 7	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680	2·38265 2·00720 1·79432 1·64063 1·51805 1·41478 1·32473	2·38785 2·01310 1·80071 1·64742 1·52520	2·39298 2·01890 1·80699 1·65410 1·53223	2·39802 2·02462 1·81317 1·66067 1·53914	75 2·40299 2·03024 1·81926 1·66714 1·54594	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237	.00000 	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.37657	.03622 .00000 79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350
35 n k 1 2 3 4 5 6 7 8	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608	2·38265 2·00720 1·79432 1·64063 1·51805 1·41478 1·32473 1·24431	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815	75 2.40299 2.03024 1.81926 1.66714 1.54594 1.44395 1.35510 1.27583	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237 1.28338	.00000 	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.37657 1.29810	79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529
35 n k 1 2 3 4 5 6 7 8 9	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270	2·38265 2·00720 1·79432 1·64063 1·51805 1·41478 1·32473 1·24431 1·17123	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240 1·17961	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592	75 2·40299 2·03024 1·81926 1·66714 1·54594 1·44395 1·35510 1·27583 1·20387	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237 1.22338 1.21168	.00000 	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.37657 1.29810 1.22691	.03622 .00000 79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434
35 n k 1 2 3 4 5 6 7 8 9 10	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270 1·09511	2·38265 2·00720 1·79432 1·64063 1·51805 1·41478 1·32473 1·24431	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815	75 2.40299 2.03024 1.81926 1.66714 1.54594 1.44395 1.35510 1.27583	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237 1.28338 1.21168 1.14572	.00000 	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.37657 1.29810 1.22691 1.16145	.03622 .00000 79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434 1.16912
35 n k 1 2 3 4 5 6 7 8 9 10 11	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270 1·09511 1·03220	2:38265 2:00720 1:79432 1:64063 1:51805 1:41478 1:32473 1:24431 1:17123 1:10393 1:04130	2:38785 2:01310 1:80071 1:64742 1:52520 1:42226 1:33252 1:25240 1:17961 1:11259 1:05024	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110 1·05902	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592 1·12945	75 2·40299 2·03024 1·81926 1·66714 1·54594 1·44395 1·35510 1·27583 1·20387 1·13766 1·07610	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237 1.28338 1.21168 1.14572 1.08442	.00000 	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.37657 1.29810 1.22691 1.16145 1.10063	79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434 1.16912 1.10854
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35 n k 1 2 3 4 5 6 7 8 9 10 11 12 13	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270 1·09511 1·03220 0·97313 ·91728	2·38265 2·00720 1·79432 1·64063 1·51805 1·41478 1·32473 1·24431 1·17123 1·10393 1·04130 0·98252 ·92695	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240 1·17961 1·11259 1·05024 0·99173 ·93644	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110 1·05902 1·00078 0·94576	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592 1·12945 1·06764 1·00966 0·95490	75 2.40299 2.03024 1.81926 1.66714 1.54594 1.44395 1.35510 1.27583 1.20387 1.13766 1.07610 1.01838 0.96387	76 2·40789 2·03578 1·82525 1·67350 1·55263 1·45094 1·36237 1·28338 1·21168 1·14572 1·08442 1·02695 0·97269	.00000 	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.37657 1.29810 1.22691 1.16145 1.10063 1.04364 0.98986	79 2-42215 2-00000 1-47125 1-38350 1-30529 1-23434 1-16912 1-10854 1-05178 0-99822
35 n k 1 2 3 4 5 6 7 8 9 10 11 12	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270 1·09511 1·03220 0·97313	2:38265 2:00720 1:79432 1:64063 1:51805 1:41478 1:32473 1:24431 1:17123 1:10393 1:04130 0:98252	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240 1·17961 1·11259 1·05024 0·99173	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110 1·05902 1·00078	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592 1·12945 1·06764 1·00966	75 2.40299 2.03024 1.81926 1.66714 1.54594 1.44395 1.35510 1.27583 1.20387 1.13766 1.07610 1.01838	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237 1.28338 1.21168 1.14572 1.08442 1.02695	77 2·41271 2·04124 1·83115 1·67976 1·55921 1·45782 1·36953 1·29080 1·21936 1·15365 1·09260 1·03537	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.22691 1.16145 1.10063 1.04364	79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434 1.16912 1.10854 1.05178
35 n k 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270 1·09511 1·03220 0·97313 ·91728 ·86416 ·81338 0·76462	2·38265 2·00720 1·79432 1·64063 1·51805 1·41478 1·32473 1·17123 1·10393 1·04130 0·98252 ·92695 ·87412 ·82362 0·77514	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240 1·17961 1·11259 1·05024 0·99173 ·93644 ·88388	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110 1·05902 1·00078 0·94576 ·89346	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592 1·12945 1·06764 1·00966 0·95490 ·90286	75 2·40299 2·03024 1·81926 1·66714 1·54594 1·44395 1·35510 1·27583 1·20387 1·13766 1·07610 1·01838 0·96387 ·91209 ·86265 0·81524	76 2·40789 2·03578 1·82525 1·67350 1·55263 1·45094 1·36237 1·28338 1·21168 1·14572 1·08442 1·02695 0·97269 ·92115 ·87196 0·82480	.00000	78 2·41747 2·04662 1·83696 1·68592 1·56569 1·46459 1·37657 1·29810 1·22691 1·16145 1·10063 1·04364 0·98986 ·93880 ·89008 0·84339	.03622 .00000 79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434 1.16912 1.10854 1.05178 0.99822 .94739 .89890 0.85244
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35 n k 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270 1·09511 1·03220 0·97313 ·91728 ·86416 ·81338 0·76462 ·71761 ·67214 ·62803 ·58510 0·54323	2·38265 2·00720 1·79432 1·64063 1·51805 1·41478 1·32473 1·17123 1·10393 1·04130 0·98252 ·92695 ·87412 ·82362 0·77514 ·72843 ·68325 ·63943 ·59681 0·55525	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240 1·17961 1·11259 1·05024 0·99173 ·93644 ·83388 ·83366 0·78546 ·73903 ·69413 ·65060 ·60827 0·56701	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110 1·05902 1·00078 0·94576 ·89346 ·84351 0·79558 ·74942 ·70480 ·66155 ·61950 0·57852	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592 1·12945 1·06764 1·00966 0·95490 ·90286 ·85317 0·80550 ·71526 ·67227 ·63050 0·58980	75 2·40299 2·03024 1·81926 1·66714 1·54594 1·44395 1·35510 1·27583 1·20387 1·13766 1·07610 1·01838 0·96387 ·91209 ·86265 0·81524 ·76960 ·72551 ·68279 ·64128 0·60085	76 2:40789 2:03578 1:82525 1:67350 1:55263 1:45094 1:36237 1:28338 1:21168 1:14572 1:08442 1:02695 0:97269 9:2115 -87196 0:82480 -77940 -73557 -69310 -65185 0:61168	77 2·41271 2·04124 1·83115 1·67976 1·55921 1·45782 1·36953 1·29080 1·21936 1·15365 1·09260 1·03537 0·98135 ·93005 ·88110 0·83418 ·78903 ·74544 ·70322 ·66222 0·62230	78 2·41747 2·04662 1·83696 1·68592 1·56569 1·46459 1·37657 1·29810 1·22691 1·16145 1·10063 1·04364 0·98986 ·93880 ·89008 0·84339 ·79848 ·75512 ·71314 ·67239 0·63272	.03622 .00000 79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434 1.16912 1.10854 1.05178 0.99822 .94739 .89890 0.85244 .80776 .76463 .72289 .68237 0.64294
35 n k 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270 1·09511 1·03220 0·97313 ·91728 ·86416 ·81338 0·76462 ·71761 ·67214 ·62803 ·58510 0·54323 ·50230	2:38265 2:00720 1:79432 1:64063 1:51805 1:41478 1:32473 1:17123 1:10393 1:04130 0:98252 92695 :87412 82362 0:77514 :72843 :68325 :63943 :59681 0:55525 :51463	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240 1·17961 1·11259 1·05024 0·99173 ·93644 ·8338 ·83366 0·78546 ·73903 ·69413 ·65060 ·60827 0·56701 ·52669	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110 1·05902 1·00078 0·94576 ·89346 ·84351 0·79558 ·74942 ·70480 ·66155 ·61950 0·57852 ·53850	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592 1·12945 1·06764 1·00966 0·95490 ·90286 ·85317 0·80550 ·71526 ·67227 ·63050 0·58980 ·55006	75 2·40299 2·03024 1·81926 1·66714 1·54594 1·44395 1·35510 1·27583 1·20387 1·13766 1·07610 1·01838 0·96387 ·91209 ·86265 0·81524 ·76960 ·72551 ·68279 ·64128 0·60085 ·56138	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237 1.28338 1.21168 1.14572 1.08442 1.02695 0.97269 92115 87196 0.82480 .77940 .73557 .69310 .65185 0.61168 .57248	77 2·41271 2·04124 1·83115 1·67976 1·55921 1·45782 1·36953 1·29080 1·21936 1·15365 1·09260 1·03537 0·98135 ·93005 ·88110 0·83418 ·78903 ·74544 ·70322 ·66222 0·62230 ·58336	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.37657 1.29810 1.22691 1.16145 1.10063 1.04364 0.98986 93380 89008 0.84339 79848 755512 71314 67239 0.63272 59403	79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434 1.16912 1.10854 1.05178 0.99822 94739 .89890 0.85244 .80776 .76463 .72289 .68237 0.64294 .60449
35 n k 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 20 21	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·16270 1·09511 1·03220 0·97313 ·91728 ·86416 ·81338 0·76462 ·71761 ·67214 ·62803 ·58510 0·54323 ·50230 ·46219	2·38265 2·00720 1·79432 1·64063 1·51805 1·41478 1·32473 1·17123 1·10393 1·04130 0·98252 ·92695 ·87412 ·82362 0·77514 ·72843 ·63325 ·63943 ·59681 0·55525 ·51463 ·47484	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240 1·17961 1·11259 1·05024 0·99173 ·93644 ·88388 ·83366 0·78546 ·73903 ·69413 ·65060 ·60827 0·56701 ·52669 ·48721	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110 1·05902 1·00078 0·94576 ·89346 ·84351 0·79558 ·74942 ·70480 ·66155 ·61950 0·57852 ·53850 ·49932	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592 1·12945 1·06764 1·00966 0·95490 ·90286 ·85317 0·80550 ·71526 ·67227 ·63050 0·58980 ·55006 ·51117	75 2·40299 2·03024 1·81926 1·66714 1·54594 1·44395 1·35510 1·27583 1·20387 1·13766 1·07610 1·01838 0·96387 9·1209 -86265 0·81524 -76960 -72551 -68279 -64128 0·60085 -56138 -52277	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237 1.28338 1.21168 1.14572 1.08442 1.02695 0.97269 92115 87196 0.82480 .77940 .73557 .69310 .65185 0.61168 .57248 .53414	77 2-41271 2-04124 1-83115 1-67976 1-55921 1-45782 1-36953 1-29080 1-21936 1-15365 1-09260 1-03537 0-98135 -93005 -88110 0-83418 -78903 -74544 -70322 -66222 0-62230 -58336 -54528	78 2·41747 2·04662 1·83696 1·68592 1·56569 1·46459 1·37657 1·29810 1·22691 1·16145 1·10063 1·04364 0·98986 ·93880 ·89008 0·84339 ·79848 .755512 ·71314 ·67239 0·63272 ·59403 ·55621	.03622 .00000 79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434 1.16912 1.10854 1.05178 0.99822 .94739 .89890 0.85244 .80776 .76463 .72289 .68237 0.64294
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 222 23	2·37736 2·00120 1·78783 1·63373 1·51078 1·40717 1·31680 1·23608 1·16270 1·09511 1·03220 0·97313 ·91728 ·86416 ·81338 0·76462 ·71761 ·67214 ·62803 ·58510 0·54323 ·50230	2:38265 2:00720 1:79432 1:64063 1:51805 1:41478 1:32473 1:17123 1:10393 1:04130 0:98252 92695 :87412 82362 0:77514 :72843 :68325 :63943 :59681 0:55525 :51463	2·38785 2·01310 1·80071 1·64742 1·52520 1·42226 1·33252 1·25240 1·17961 1·11259 1·05024 0·99173 ·93644 ·8338 ·83366 0·78546 ·73903 ·69413 ·65060 ·60827 0·56701 ·52669	2·39298 2·01890 1·80699 1·65410 1·53223 1·42961 1·34017 1·26034 1·18784 1·12110 1·05902 1·00078 0·94576 ·89346 ·84351 0·79558 ·74942 ·70480 ·66155 ·61950 0·57852 ·53850	2·39802 2·02462 1·81317 1·66067 1·53914 1·43684 1·34770 1·26815 1·19592 1·12945 1·06764 1·00966 0·95490 ·90286 ·85317 0·80550 ·71526 ·67227 ·63050 0·58980 ·55006	75 2·40299 2·03024 1·81926 1·66714 1·54594 1·44395 1·35510 1·27583 1·20387 1·13766 1·07610 1·01838 0·96387 ·91209 ·86265 0·81524 ·76960 ·72551 ·68279 ·64128 0·60085 ·56138	76 2.40789 2.03578 1.82525 1.67350 1.55263 1.45094 1.36237 1.28338 1.21168 1.14572 1.08442 1.02695 0.97269 92115 87196 0.82480 .77940 .73557 .69310 .65185 0.61168 .57248	77 2·41271 2·04124 1·83115 1·67976 1·55921 1·45782 1·36953 1·29080 1·21936 1·15365 1·09260 1·03537 0·98135 ·93005 ·88110 0·83418 ·78903 ·74544 ·70322 ·66222 0·62230 ·58336	78 2.41747 2.04662 1.83696 1.68592 1.56569 1.46459 1.37657 1.29810 1.22691 1.16145 1.10063 1.04364 0.98986 93380 89008 0.84339 79848 755512 71314 67239 0.63272 59403	79 2.42215 2.05191 1.84268 1.69200 1.57207 1.47125 1.38350 1.30529 1.23434 1.16912 1.10854 1.05178 0.99822 94739 89890 0.85244 -80776 -76463 -72289 -68237 0.64294 -60449 -56692

$n \atop k$	70	71	72	73	74	75	76	77	78	79
26 27 28 29 30	0.34591 $\cdot 30825$ $\cdot 27102$ $\cdot 23416$ $\cdot 19762$	0.35958 0.32227 0.28540 0.24893 0.21277	0.37292 $.33596$ $.29945$ $.26333$ $.22756$	0.38597 $\cdot 34934$ $\cdot 31317$ $\cdot 27740$ $\cdot 24199$	0.39873 $.36242$ $.32657$ $.29114$ $.25608$	0.41122 $.37521$ $.33968$ $.30457$ $.26984$	$\begin{array}{r} 0.42343 \\ \cdot 38772 \\ \cdot 35250 \\ \cdot 31770 \\ \cdot 28329 \end{array}$	0.43540 $\cdot 39997$ $\cdot 36504$ $\cdot 33055$ $\cdot 29645$	0.44711 $.41196$ $.37731$ $.34311$ $.30931$	0.45859 $.42371$ $.38934$ $.35542$ $.32190$
31 32 33 34 35	0.16134 0.12527 0.08936 0.05357 0.01785	$0.17690 \\ \cdot 14125 \\ \cdot 10579 \\ \cdot 07045 \\ \cdot 03520$	0.19208 0.15683 0.12178 0.08688 0.05209	0.20688 $.17202$ $.13737$ $.10289$ $.06852$	0.22133 $.18684$ $.15257$ $.11848$ $.08453$	0.23543 $\cdot 20130$ $\cdot 16740$ $\cdot 13370$ $\cdot 10014$	0.24922 0.21543 0.18188 0.14854 0.11536	0.26269 0.2923 0.19602 0.16303 0.13021	0.27586 $.24272$ $.20983$ $.17718$ $.14471$	0.28875 0.25591 0.22334 0.19101 0.15888
36 37 38 39 40		0·00000 — — — —	0·01736 — — — —	0·03424 ·00000 — —	0·05068 ·01689 — — —	0·06670 ·03333 ·00000 ——	0·08231 ·04935 ·01644 —	$0.09754 \\ .06497 \\ .03247 \\ .00000 \\$	0·11240 ·08020 ·04809 ·01602	$0.12691 \\ 0.09507 \\ 0.6333 \\ 0.3165 \\ 0.0000$
k	80	81	82	83	84	85	86	87	88	89
1 2 3 4 5	2.42677 2.05714 1.84832 1.69798 1.57836	$2 \cdot 43133$ $2 \cdot 06228$ $1 \cdot 85387$ $1 \cdot 70387$ $1 \cdot 58455$	$2 \cdot 43582$ $2 \cdot 06735$ $1 \cdot 85935$ $1 \cdot 70968$ $1 \cdot 59065$	2.44026 2.07236 1.86475 1.71540 1.59665	2·44463 2·07729 1·87007 1·72104 1·60258	2·44894 2·08216 1·87532 1·72660 1·60841	2·45320 2·08696 1·88049 1·73209 1·61417	2.45741 2.09170 1.88560 1.73750 1.61984	2·46156 2·09637 1·89064 1·74283 1·62544	2.46565 2.10099 1.89561 1.74810 1.63096
6 7 8 9 10	1.47781 1.39032 1.31236 1.24165 1.17666	1·48428 1·39704 1·31932 1·24884 1·18409	1.49064 1.40366 1.32617 1.25593 1.19139	1.49691 1.41017 1.33292 1.26290 1.19859	1.50309 1.41659 1.33957 1.26977 1.20567	1.50918 1.42292 1.34611 1.27653 1.21264	$\begin{array}{c} 1.51518 \\ 1.42915 \\ 1.35257 \\ 1.28320 \\ 1.21951 \end{array}$	1.52110 1.43529 1.35893 1.28976 1.22628	1.52693 1.44135 1.36520 1.29624 1.23295	1.53269 1.44732 1.37138 1.30262 1.23952
11 12 13 14 15	1·11631 1·05978 1·00644 0·95584 ·90757	1·12396 1·06764 1·01453 0·96414 ·91609	1.13148 1.07539 1.02249 0.97231 $.92447$	$\begin{array}{c} 1.13889 \\ 1.08300 \\ 1.03031 \\ 0.98034 \\ .93271 \end{array}$	$\begin{array}{c} 1.14618 \\ 1.09050 \\ 1.03802 \\ 0.98825 \\ .94082 \end{array}$	1.15336 1.09788 1.04560 0.99603 $.94880$	$\begin{array}{c} 1.16043 \\ 1.10515 \\ 1.05306 \\ 1.00369 \\ 0.95665 \end{array}$	1.16740 1.11231 1.06041 1.01122 0.96437	1.17426 1.11936 1.06765 1.01865 0.97198	1·18102 1·12631 1·07478 1·02596 0·97948
16 17 18 19 20	$\begin{array}{c} 0.86134 \\ \cdot 81687 \\ \cdot 77398 \\ \cdot 73246 \\ \cdot 69217 \end{array}$	0.87007 .82583 .78315 .74186 .70179	0.87867 $.83464$ $.79217$ $.75109$ $.71124$	0.88711 .84329 .80103 .76016 .72053	0.89542 0.89542 0.89542 0.80975 0.76908 0.72965	0.90360 $.86017$ $.81832$ $.77785$ $.73862$	0.91164 .86841 .82675 .78647 .74744	0.91956 $.87651$ $.83504$ $.79496$ $.75611$	0.92735 0.88449 0.84320 0.80330 0.76465	$0.93502 \\ .89234 \\ .85123 \\ .81152 \\ .77304$
21 22 23 24 25	0.65297 .61476 .57742 .54088 .50504	$\begin{array}{c} 0.66282 \\ \cdot 62484 \\ \cdot 58773 \\ \cdot 55143 \\ \cdot 51583 \end{array}$	0.67249 $.63473$ $.59785$ $.56178$ $.52641$	0.68199 .64445 .60779 .57193 .53680	$\begin{array}{c} 0.69133 \\ \cdot 65399 \\ \cdot 61755 \\ \cdot 58191 \\ \cdot 54700 \\ \end{array}$	0.70050 $.66337$ $.62714$ $.59171$ $.55701$	$\begin{array}{c} 0.70952 \\ \cdot 67259 \\ \cdot 63656 \\ \cdot 60133 \\ \cdot 56684 \end{array}$	0.71838 $.68165$ $.64581$ $.61079$ $.57650$	0.72710 $.69056$ $.65492$ $.62009$ $.58600$	$\begin{array}{c c} 0.73568 \\ \cdot 69932 \\ \cdot 66387 \\ \cdot 62923 \\ \cdot 59533 \end{array}$
26 27 28 29 30	$\begin{array}{c} 0.46985 \\ \cdot 43522 \\ \cdot 40111 \\ \cdot 36747 \\ \cdot 33423 \end{array}$	$\begin{array}{r} 0.48088 \\ \cdot 44651 \\ \cdot 41265 \\ \cdot 37927 \\ \cdot 34630 \end{array}$	0·49170 •45757 •42397 •39084 •35813	$\begin{array}{c} 0.50232 \\ \cdot 46842 \\ \cdot 43506 \\ \cdot 40218 \\ \cdot 36972 \end{array}$	0·51274 ·47907 ·44594 ·41330 ·38108	0.52297 $\cdot 48952$ $\cdot 45662$ $\cdot 42421$ $\cdot 39223$	0.53301 $\cdot 49979$ $\cdot 46710$ $\cdot 43491$ $\cdot 40316$	0.54288 $.50986$ $.47739$ $.44542$ $.41389$	0.55258 $.51976$ $.48750$ $.45574$ $.42443$	$0.56210 \\ .52949 \\ .49743 \\ .46587 \\ .43477$
31 32 33 34 35	$\begin{array}{c} 0.30136 \\ \cdot 26881 \\ \cdot 23655 \\ \cdot 20453 \\ \cdot 17272 \end{array}$	0.31371 $.28144$ $.24947$ $.21775$ $.18625$	$\begin{array}{c} 0.32580 \\ \cdot 29381 \\ \cdot 26212 \\ \cdot 23069 \\ \cdot 19949 \end{array}$	0.33765 $\cdot 30592$ $\cdot 27450$ $\cdot 24335$ $\cdot 21244$	$\begin{array}{c} 0.34926 \\ \cdot 31779 \\ \cdot 28664 \\ \cdot 25576 \\ \cdot 22512 \end{array}$	0.36065 $.32943$ $.29852$ $.26790$ $.23753$	$\begin{array}{c} 0.37182 \\ \cdot 34084 \\ \cdot 31018 \\ \cdot 27981 \\ \cdot 24970 \end{array}$	$0.38278 \\ \cdot 35203 \\ \cdot 32161 \\ \cdot 29148 \\ \cdot 26162$	0.39353 $.36300$ $.33281$ $.30292$ $.27330$	0.40409 $.37378$ $.34381$ $.31415$ $.28476$
36 37 38 39 40	0·14108 ·10959 ·07820 ·04689 ·01562	0·15493 ·12377 ·09272 ·06177 ·03087	0·16848 ·13763 ·10691 ·07629 ·04575	$\begin{array}{c} 0.18172 \\ \cdot 15118 \\ \cdot 12078 \\ \cdot 09049 \\ \cdot 06028 \end{array}$	0·19469 ·16444 ·13434 ·10436 ·07448	$\begin{array}{c} 0.20738 \\ \cdot 17741 \\ \cdot 14761 \\ \cdot 11793 \\ \cdot 08836 \end{array}$	$\begin{array}{c} 0.21981 \\ \cdot 19012 \\ \cdot 16059 \\ \cdot 13121 \\ \cdot 10193 \end{array}$	0.23199 -20256 -17330 -14420 -11521	$\begin{array}{c} 0.24392 \\ \cdot 21475 \\ \cdot 18576 \\ \cdot 15692 \\ \cdot 12821 \end{array}$	$\begin{array}{c} 0.25562 \\ \cdot 22669 \\ \cdot 19796 \\ \cdot 16938 \\ \cdot 14094 \end{array}$
41 42 43 44 45		0·00000 — — — —	0·01524 ————————————————————————————————————	0.03013 .00000 — — —	0·04466 0·01488 — — —	0.05886 .02942 .00000 —	0·07275 ·04362 ·01454 ———————————————————————————————————	0.08633 .05751 .02874 .00000	0·09961 ·07110 ·04263 ·01421	0·11262 ·08439 ·05622 ·02810 ·00000

Table 1 (cont.)

n		1			i		1	Γ	T	1
	90	91	92	93	94	95	96	97	98	99
$\frac{k}{}$										
1	2.46970	2.47370	2.47764	2.48154	2.48540	2.48920	2.49297	2.49669	2.50036	2.50400
2	2.10554	2.11004	2.11448	2.11887	2.12321	2.12749	2.13172	2.13590	2.14003	2.14411
.3	1.90052	1.90536	1.91015	1.91487	1.91953	1.92414	1.92869	1.93318	1.93763	1.94201
4	1.75329	1.75842	1.76348	1.76848	1.77341	1.77828	1.78309	1.78784	1.79254	1.79718
5	1.63641	1.64178	1.64709	1.65232	1.65749	1.66259	1.66763	1.67261	1.67752	1.68238
6	1.53836	1.54396	1.54949	1.55494	1.56033	1.56564	1.57089	1.57607	1.58118	1.58624
7	1.45321	1.45903	1.46476	1.47042	1.47600	1.48151	1.48695	1.49232	1.49762	1.50286
8	1.37747	1.38348	1.38941	1.39526	1.40103	1.40673	1.41235	1.41790	1.42338	1.42879
10	1.30891 1.24600	1.31511 1.25239	1.32123	1.32726	1.33321	1.33909	1.34489	1.35061	1.35626	1.36183
10	1.24000	1.20209	1.25869	1.26491	1.27104	1.27708	1.28305	1.28894	1.29475	1.30049
11	1.18769	1.19426	1.20073	1.20712	1.21342	1.21964	1.22577	1.23182	1.23779	1.24368
12	1.13316	1.13990	1.14656	1.15311	1.15958	1.16596	1.17226	1.17847	1.18459	1.19064
13	1.08181	1.08873	1.09555	1.10228	1.10891	1.11546	1.12191	1.12827	1.13455	1.14075
14 15	1.03316 0.98686	$1.04026 \\ 0.99413$	1.04726	1.00925	1.06095	1.06765	1.07426	1.08078	1.08721	1.09356
		0.99419	1.00129	1.00835	1.01531	1.02217	1.02894	1.03561	1.04219	1.04868
16	0.94258	0.95002	0.95735	0.96458	0.97170	0.97872	0.98564	0.99246	0.99919	1.00583
17	•90007	•90769	•91519	.92258	.92986	.93704	.94411	.95109	.95797	0.96475
18 19	·85914 ·81960	·86693	·87460	·88215	·88959	·89693	•90416	•91129	·91831	.92524
20	·78131	·82756 ·78944	·83540 ·79745	·84312 ·80533	85072	.85822	·86560	·87288	·88006	·88713
					⋅81310	⋅82075	·82829	⋅83572	·8 43 05	·85027
21	0.74412	0.75243	0.76061	0.76866	0.77659	0.78441	0.79210	0.79968	0.80716	0.81452
22 23	·70795 ·67267	·71643 ·68134	.72478	.73300	·74110	•74907	•75692	•76466	•77228	•77980
24	.63822	.64706	.68986 .65576	69825 66432	·70651 ·67275	·71464 ·68105	$0.72266 \\ 0.68922$.60727	.73832	·74598
25	·60451	.61353	.62241	63115	.63974	·64821	.65654	·69727 ·66474	·70519 ·67282	·71301 ·68079
0.1										
26	0.57147	0.58068	0.58974	0.59865	0.60742	0.61605	0.62454	0.63291	0.64115	0.64926
27 28	·53905 ·50718	·54845 ·51677	.55769 .52620	.56678	.57572	•58452	•59318	•60170	•61010	•61837
29	·47582	•48561	·49522	.53547 .50468	·54459 ·51398	.55356 .52312	·56239 ·53212	·57108 ·54097	·57963 ·54969	·58805 ·55827
30	·44493	·45491	.46472	.47436	·48384	·49316	.50233	.51136	•52024	.52898
31	0.41445	0.42463	0.43464	0.44447	0.45414	0.46964	0.47299	0.40010	0.40100	0.50019
32	•38436	·39474	•40495	·41498	•42483	0.46364 $\cdot 43452$	•44404	0.48218 .45341	0·49123 ·46263	0·50013 ·47170
33	·35461	.36520	.37561	·38584	•39588	·40576	•41547	•42501	·43440	•44364
34	$\cdot 32517$.33598	·34660	.35702	.36727	.37733	.38722	·39695	•40652	.41593
35	· 2 9601	·30704	·31787	·32850	·33895	·3 4 921	·35929	·36920	· 3 7895	·38853
36	0.26710	0.27835	0.28940	0.30025	0.31090	0.32136	0.33163	0.34173	0.35166	0.36142
37	.23841	•24990	.26117	.27223	·28309	$\cdot 29375$	·30423	$\cdot 31452$.32464	·33458
38	•20991	•22164	.23314	•24443	•25550	.26637	•27705	.28754	.29785	•30797
39	.18159	19356	.20530	21681	•22810	.23919	•25008	•26077	.27127	•28159
40	·15341	·16563	·17761	⋅18936	·20088	·21219	•22328	·23418	·24488	•25539
41	0.12536	0.13783	0.15006	0.16205	0.17380	0.18533	0.19665	0.20776	0.21866	0.22937
42 43	$09740 \\ 06952$	·11014 ·08253	.12262	.13486	·14685	.15861	·17015	.18148	19259	•20351
44	·04169	.05499	09528 06801	·10777 ·08076	0.09325	·13201	·14378	.15533	16666	.17778
45	.01389	.02748	.04078	.05381	.06656	·10550 ·07906	·11750 ·09131	$^{\cdot 12928}_{\cdot 10332}$	·14083 ·11510	·15217 ·12666
46		0.00000	0.01359	0.02689	0.03992	0.05267	0 ·06518	0.07743	0.08944	0.10123
47	_		~ ~	.00000	·01330	0.05267	0.00518	0.07743	0.08944	0.10123
48	_	_	_	_	_	·00000	·01303	03139	03829	.05055
49	_	_	_	_	_	_	_	.00000	01276	.02527
50			_	_	_		_		_	.00000
								i		

Table 1 (cont.)

							,			
k	100	125	150	175	200	225	250	300	350	400
1	2 ·50759	2.58634	2.64925	2.70148	2.74604	2.78485	2.81918	2.87777	2.92651	2.96818
2	2.14814	2.23630	2.30638	2.36434	2.41365	2.45649	2.49431	2.55867	2.61207	2.65761
3	1.94635	2.04090	2.11578	$2 \cdot 17755$	2.22999	$2 \cdot 27547$	2.31555	2.38365	2.44004	2.48806
4	1.80176	1.90146	1.98019	2.04500	2.09991	2.14746	2.18932	$2 \cdot 26033$	2.31904	2.36897
5	1.68718	1.79137	1.87341	1.94081	1.99783	2.04713	2.09050	$2 \cdot 16397$	2.22462	2.27615
6	1.59123	1.69947	1.78448	1.85419	1.91308	1.96395	2.00864	2.08427	2.14663	2.19955
7	1.50803	1.62002	1.70777	1.77959	1.84019	1.89247	1.93837	2.01595	2.07985	2.13402
8	1.43414	1.54966	1.63997	1.71376	1.77594	1.82953	1.87654	1.95592	2.02122	2.07654
9	1.36734	1.48623	1.57896	1.65462	1.71828	1.77310	1.82115	1.90220	1.96882	2.02521
10	1.30615	1.42828	1.52333	1.60075	1.66583	1.72182	1.77084	1.85348	1.92133	1.97871
11	1.24950	1.37477	1.47206	1.55118	1.61760	1.67470	1.72466	1.80879	1.87781	1.93614
12	1.19661	1.32493	1.42438	1.50514	1.57287	1.63103	1.68189	1.76746	1.83758	1.89681
13	1.14687	1.27819	1.37975	1.46210	1.53109	1.59027	1.64199	1.72894	1.80013	1.86021
14	1.09982	1.23409	1.33771	1.42161	1.49182	1.55200	1.60455	1.69283	1.76504	1.82595
15	1.05509	1.19226	1.29791	1.38333	1.45472	1.51588	1.56923	1· 6 5880	1.73201	1.79371
16	1.01238	1.15243	1.26007	1.34697	1.41953	1.48163	1.53577	1.62659	1.70076	1.76324
17	0.97145	1.11435	1.22396	1.31232	1.38602	1.44904	1.50395	1.59599	1.67109	1.73432
18	•93208	1.07783	1.18937	1.27917	1.35399	1.41792	1.47359	1.56681	1.64283	1.70678
19	· 894 11	1.04268	1.15616	1.24738	1.32330	1.38812	1.44452	1.53891	1.61582	1.68048
20	•85739	1.00879	1.12417	1.21680	1.29381	1.35950	1.41663	1.51216	1.58994	1.65530
21	0.82179	0.97601	1.09330	1.18731	1.26540	1.33195	1.38980	1.48645	1.56508	1.63112
22	·78720	.94426	1.06344	1.15883	1.23798	1.30539	1.36393	1.46169	1.54116	1.60786
23	·75353	.91342	1.03449	1.13126	1.21146	1.27971	1.33895	1.43780	1.51809	1.58544
24	.72070	·88344	1.00639	1.10452	1.18577	1.25485	1.31478	1.41470	1.49580	1.56379
25	⋅68863	·85423	0.97907	1.07855	1.16084	1.23074	1.29135	1.39233	1.47423	1.54285
26	0.65725	0.82573	0.95245	1.05329	1.13661	1.20733	1.26861	1.37063	1.45332	1.52257
27	.62651	.79789	·92650	1.02868	1.11303	1.18457	1.24651	1.34957	1.43303	1.50289
28	.59635	·77065	•90115	1.00469	1.09005	1.16240	1.22500	1.32908	1.41332	1.48378
29	.56672	·74398	·87638	0.98125	1.06763	1.14079	1.20405	1.30914	1.39414	1.46520
30	•53758	·71782	·85212	∙95835	1.04574	1.11970	1.18361	1.28971	1.37546	1.44711
31	0.50890	0.69215	0.82836	0.93594	1.02434	1.09909	1.16365	1.27076	1.35725	1.42948
32	·48062	·66692	·80506	·91399	1.00340	1.07895	1.14415	1.25225	1.33947	1.41228
33	•45273	•64212	.78219	·89247	0.98290	1.05923	1.12507	1.23415	1.32211	1.39550
34	•42518	•61770	•75973	·87135	•96279	1.03992	1.10640	1.21646	1.30515	1.37910
35	-39796	•59365	·73764	·85062	•94307	1.02098	1.08810	1.19914	1.28854	1.36306
36	0.37102	0.56993	0.71590	0.83025	0.92371	1.00241	1.07016	1.18217	1.27229	1.34736
37	.34436	.54653	.69450	·81022	.90469	0.98418	1.05256	1.16553	1.25637	1.33199
38	·31793	.52343	.67341	·79051	·88599	.96626	1.03528	1.14921	1.24076	1.31693
39	•29173	.50061	.65261	·77110	·86760	·94866	1.01830	1.13320	1.22544	1.30216
40	⋅26572	·47804	·63210	·75197	·8 4 950	∙93134	1.00161	1.11746	1.21041	1.28767
41	0.23990	0.45571	0.61185	0.73312	0.83167	0.91429	0.98520	1.10200	1.19565	1.27344
42	.21423	·43361	.59184	.71453	·81410	·89751	.96905	1.08680	1.18114	1.25947
43	18870	·41172	.57208	⋅69618	·79678	·88098	.95314	1.07185	1.16688	1.24574
44	·16330	·39002	.55253	.67806	.77969	·86469	.93748	1.05713	1.15285	1.23225
45	·13800	·36851	.53319	-66016	.76283	·84862	.92204	1.04264	1.13904	1.21897
46	0.11279	0.34717	0.51405	0.64247	0.74619	0.83277	0.90682	1.02836	1.12545	1.20590
47	⋅08765	•32598	·49509	.62498	.72975	·81712	·89180	1.01429	1.11207	1.19304
. 48	⋅06257	•30494	·47632	⋅60768	·71350	·80168	·87699	1.00042	1.09888	1.18037
49	.03753	.28403	·45770	•59056	.69744	·78642	·86236	0.98674	1.08587	1.16789
50	·01251	•26325	· 4392 5	.57361	⋅68156	·77134	·84792	·97324	1.07305	1.15559
		1	1	1	1	1		L	L	

Table 1 (cont.)

n			l		1				
k	125	150	175	200	225	250	300	350	400
51	0.24258	0.42094	0.55682	0.66585	0.75644	0.83365	0.95991	1.06041	1.14346
52	22201	.40278	.54019	65030	.74170	·81955	.94676	1.04793	1.13149
53	.20154	.38475	.52371	.63490	$\cdot 72712$	·80561	.93376	1.03561	1.11969
54	·18115	·36684	$\cdot 50737$	-61966	·71270	·79183	$\cdot 92093$	1.02345	1.10804
55	·16084	·34904	· 4911 6	·60 4 56	.69842	·77819	·90824	1.01144	1.09654
56	0.14059	0.33136	0.47508	0.58959	0.68428	0.76470	0.89570	0.99957	1.08518
57	·12040	·31378	.45913	.57476	.67028	·75135	·88329	.98784	1.07396
58	·10026	•29630	·44329	.56005	·65641	·73812	·87102	.97624	1.06287
59	∙08016	.27891	.42756	•54546	•64267	·72503	·85888	·96478 ·95344	1.05192
60	·06009	·26160	·41193	·5 3 099	.62904	·71206	·84687	.95344	1.04108
61	0.04005	0.24437	0.39641	0.51663	0.61553	0.69921	0.83498	0.94222	1.03037
62	.02002	.22721	·38098	.50237	.60213	·68647	·82320	.93112	1.01978
63	•00000	•21012	•36564	·48822	.58884	•67384	·81154	.92013	1.00930
64		19309	•35039	·47416	•57566	•66132	·79998	.90925 .89848	0·99893 ·98866
65		·17612	•33521	·46020	·56257	·64891	·7885 4	.99949	.98800
66		0.15919	0.32012	0.44632	0.54958	0.63659	0.77719	0.88782	0.97850
67		.14232	·30510	$\cdot 43253$.53668	.62437	·76595	$\cdot 87725$	·96844
68		.12548	·29014	·41882	·52386	·61224	·75480	$\cdot 86678$	·95848
69	ļ	·10868	$\cdot 27525$	·40519	.51114	•60020	·74374	·85640	•94861
70	_	∙09191	·26042	·39164	· 4 9850	⋅58824	.73277	·84612	.93883
71		0.07516	0.24565	0.37816	0.48593	0.57637	0.72189	0.83592	0.92914
72		.05844	.23093	$\cdot 36474$	·47344	·56458	·71110	·82581	·91954
73		.04173	·21626	·35139	·46103	.55287	·700 39	·81579	·91002
74		.02503	•20164	·33811	·44869	.54124	·68976	⋅80584	•90058
75	_	⋅00834	⋅18706	·32488	· 4364 1	•52967	·67920	·79598	·89122
76		_	0.17252	0.31171	0.42420	0.51818	0.66872	0.78619	0.88194
77	_	_	.15802	·29859	•41205	.50676	•65831	•77648	·87274
78	l —	<u> </u>	·14355	•28553	.39997	·49540	•64798	•76684	·86361
79	_	_	·12911	•27251	•38794	·48410	.63771	.75727	·85455 ·84556
80	-	_	·11470	·25954	•37596	·47287	·62751	·7 4 777	.94990
81	-	_	0.10031	0.24661	0.36404	0.46169	0.61738	0.73833	0.83663
82			.08594	.23373	.35218	•45058	·60730	·72896	·82778
83	l —	-	.07159	.22088	.34036	·43952	.59729	·71966	·81899
84	-	-	.05725	·20807	•32859	•42851	•58734	.71041	·81026
85		_	·04293	·19529	31686	·41755	•57745	·70123	·80159
86			0.02862	0.18254	0.30518	0.40665	0.56761	0.69211	0.79298
87		_	.01431	·16983	•29354	•39579	.55783	•68304	•78443
88		_	.00000	.15714	•28194	•38498	•54810	•67403	.77594
89		_	_	·14448	$\begin{array}{r} \cdot 27038 \\ \cdot 25885 \end{array}$.37421	·53842 ·52879	·66507 ·65617	·76750 ·75912
90				·13184	•25885	•36349	.92819	100017	10912
91	-	-		0.11922	0.24736	0.35280	0.51922	0.64732	0.75079
92		-		·10662	•23590	•34216	•50968	63852	.74252
93	-		_	•09404	22447	·33156 ·32099	·50020 ·49076	·62976 ·62106	0.73429 0.72611
94 95				·08147 ·06891	21307	·32099 ·31046	·48136	·61240	.71798
							0.47201	0.60379	0.70990
96	-	ı —	_	0.05637	0.19035	$0.29997 \\ -28951$	·46269	•59522	•70186
97 98	-	I —		·04383 ·03130	·17903 ·16773	28951	•45342	•58670	•69387
99	-	-		01878	15645	26867	•44419	•57822	·68593
100				.00626	13043	25830	•43499	-56978	.67802
100		_		00020	11020	20030	10100	33370	

Table 1 (cont.)

k	225	250	300	350	400	k	350	400
101	0.13396	0.24796	0.42583	0.56138	0.67016	151	0.17626	0.31517
102	$\cdot 12274$	$\cdot 23764$	•41670	.55302	.66234	152	16900	30860
103	$\cdot 11153$	$\cdot 22735$	$\cdot 40761$	$\cdot 54470$	$\cdot 65456$	153	.16174	30203
104	$\cdot 10034$.21708	· 3 9856	$\cdot 53641$.64682	154	$\cdot 15450$.29548
105	$\cdot 08916$	·20683	.38953	.52817	.63912	155	·14726	·28895
106	0.07799	0.19661	0.38054	0.51996	0.63145	156	0.14003	0.28242
107	.06683	.18641	·37158	·51178	.62383	157	.13280	$\cdot 27591$
108	05568	$\cdot 17622$	$\cdot 36265$.50364	.61624	158	$\cdot 12558$	$\cdot 26941$
109	.04453	.16606	.35375	.49553	.60868	159	$\cdot 11837$	$\cdot 26292$
110	.03340	·15591	·34487	·48745	·60116	160	·11117	·25644
111	0.02226	0.14577	0.33602	0.47941	0.59367	161	0.10397	0.24998
112	$\cdot 01113$	13566	·32720	·47139	.58622	162	$\cdot 09678$	$\cdot 24352$
113	.00000	·12555	·31841	.46341	.57880	163	$\cdot 08959$.23707
114		11546	•30963	•45545	.57141	164	0.08240	·23064
115		·10538	·30089	·44753	.56405	165	$\cdot 07522$	•22421
116		0.09531	0.29216	0.43963	0.55672	166	0.06805	0.21779
117	_	.08526	$\cdot 28346$	·43176	.54942	167	$\cdot 06088$	·21138
118		.07520	$\cdot 27478$.42392	.54215	168	$\cdot 05371$.20498
119		.06516	$\cdot 26612$	·41610	.53491	169	$\cdot 04654$	·19859
120		.05513	.25748	·40831	·52770	170	$\cdot 03938$	·19220
121	_	0.04510	0.24885	0.40054	0.52051	171	0.03221	0.18583
122		.03507	$\cdot 24025$.39280	·51335	172	$\cdot 02505$	·17946
123		02505	$\cdot 23167$.38508	$\cdot 50622$	173	$\cdot 01789$.17310
124		.01503	.22310	•37738	•49911	174	$\cdot 01074$	·16674
125		.00501	·21455	·36970	· 4 9203	175	.00358	16040
126			0.20601	0.36205	0.48497	176		0.15406
127			.19749	.35442	$\cdot 47794$	177		.14772
128			.18898	·34681	·47093	178		·14139
129 130	_	_	18049	.33922	.46394	179	_	·13507
130	_		·17201	·33164	·45698	180	-	·12875
131 132		_	0.16354	0.32409	0.45004	181	_	0.12244
133		_	15508	·31656	•44312	182	_	.11613
134	_	_	114664	·30904	·43622	183	_	10983
135		_	$^{\cdot 13820}_{\cdot 12978}$	$0.30154 \\ 0.29406$	$^{\cdot 42934}_{\cdot 42248}$	184 185		·10353
			12910	129400	.42240	165		.09723
136		- 1	0.12136	0.28659	0.41564	186		0.09094
137			$\cdot 11296$	$\cdot 27914$	$\cdot 40883$	187		$\cdot 08465$
138			$\cdot 10456$	$\cdot 27171$	·40203	188		$\cdot 07837$
139			0.09617	$\cdot 26429$	$\cdot 39524$	189		$\cdot 07209$
140	_		.08778	$\cdot 25689$	⋅38848	190		.06581
141		-	0.07940	0.24950	0.38174	191		0.05954
142	and the same of th	-	.07103	$\cdot 24212$	$\cdot 37501$	192		$\cdot 05326$
143	-	-	.06266	.23475	•36830	193		$\cdot 04699$
144		_	$05430 \\ 04594$	$egin{array}{c} \cdot 22740 \ \cdot 22006 \end{array}$	$0.36160 \\ 0.35492$	194 195	_	$04072 \\ 03445$
		-						
146 147	_	_	$\begin{array}{c} 0.03758 \\ \cdot 02923 \end{array}$	$0.21274 \\ \cdot 20542$	$0.34826 \\ \cdot 34161$	196 197		0.02819 0.02192
148		_	02923	·20542 ·19812	.33498	197 198 ±	-	02192 01566
149		_	02033	19612	.32836	199	_	00939
150			.00417	18354	.32176	200		.00313
				20001	02110			00019