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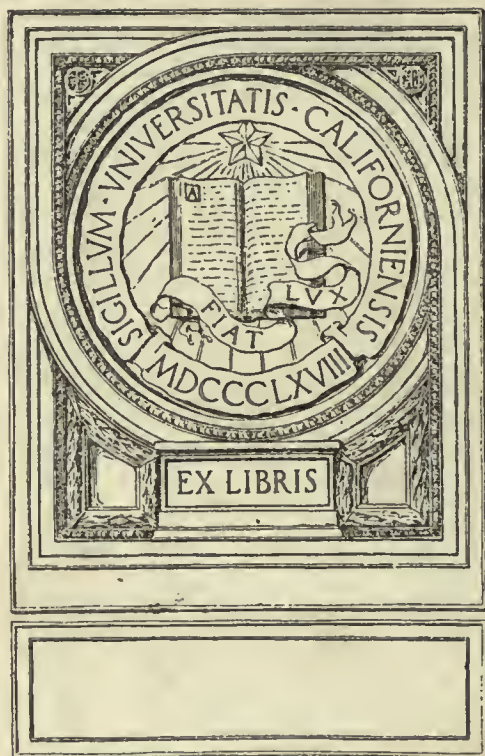


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TABLES  
OF  
THE INCOMPLETE  $\Gamma$ -FUNCTION

EDITED BY

KARL PEARSON, F.R.S.



TABLES OF INCOMPLETE GAMMA FUNCTION

ERRATA

p. xix. Lines 4 and 3 from bottom should read

the required range of  $u$  will be from

$$u_0 = 17.1303 \times 3.1637 / \sqrt{33.5973}, \text{ or } 9.3499, \text{ to } u_n = 17.1303 \times 1.0637 / \sqrt{33.5973}, \text{ or } 3.1436.$$

p. xx. The second table should read

Above	$u$	$I(u, 32.5973)$	Above	$u$	$I(u, 32.5973)$	Above	$u$	$I(u, 32.5973)$
30.85	3.1436	.00079	30.05	5.5079	.40690	29.35	7.5767	.95365
30.75	3.4392	.00322	29.95	5.8035	.52579	29.25	7.8722	.97293
30.65	3.7347	.01032	29.85	6.0990	.63866	29.15	8.1678	.98478
30.55	4.0302	.02699	29.75	6.3945	.73757	29.05	8.4633	.99174
30.45	4.3258	.05956	29.65	6.6901	.81817	28.95	8.7588	.99567
30.35	4.6213	.11376	29.55	6.9856	.87963	28.85	9.0544	.99780
30.25	4.9169	.19214	29.45	7.2812	.92373	28.75	9.3499	.99892
30.15	5.2124	.29228						

The owner of these Tables is requested to paste the above corrections over the corresponding matter on pp. xix and xx. The errors are due to copying from a wrong MS. table the values of  $u$ ; the interpolations being given from the correct table.



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TABLES  
OF  
THE INCOMPLETE  $\Gamma$ -FUNCTION

Univ. of  
California

COMPUTED BY THE STAFF OF THE DEPARTMENT OF  
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## PREFATORY NOTE

THESE TABLES of the Incomplete Gamma-Function have been prepared under the direction of Professor Karl Pearson by members of the staff of the Department of Applied Statistics, University College, London. The work has presented many difficulties and has extended over several years.

On the completion of the Tables Professor Karl Pearson found that the funds at his disposal for publication purposes were quite insufficient to cover the greatly increased cost of printing. He accordingly approached the Department of Scientific and Industrial Research for assistance in issuing this work.

In view of the value of the Tables to statisticians, computers and mathematicians, the Department on the recommendation of the Advisory Council arranged for publication by H.M. Stationery Office on their behalf.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH,  
16, OLD QUEEN ST., WESTMINSTER,  
LONDON, S.W. 1

*March, 1922*

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# INTRODUCTION

## (I) DEFINITIONS AND EXPLANATIONS OF SYMBOLS.

The complete  $\Gamma$ -function for the argument  $p$  is written  $\Gamma(p+1)$  and can be defined by

$$\Gamma(p+1) = \int_0^{\infty} e^{-x} x^p dx \dots\dots\dots(i).$$

Excellent tables for the logarithm of the complete  $\Gamma$ -function were first provided by Legendre in the second volume of his *Traité des fonctions elliptiques et des intégrales Eulériennes*, Paris, 1825-8. That work is now very scarce, but a lithographic reproduction of the  $\Gamma$ -function tables has recently been issued by the Cambridge University Press\*. A Table of the Complete  $\Gamma$ -function must be considered as a needful companion to the present volume.

Legendre's table gives twelve decimal places but only runs from the values 1 to 2 of the argument  $p$ . Other values must be reached by the fundamental formula

$$\Gamma(p+1) = p\Gamma(p),$$

by interpolation from Degen's fine table of factorials†, or by some method of approximation. Use of the fundamental formula is lengthy if  $p$  be considerably greater than 2, and methods of approximation are then as a rule followed. The method adopted may be Stirling's formula or Forsyth's; or, since what is usually needed in statistical and other practice is  $\Gamma(p+1)/(p^p e^{-p})$ , we may use for high values of  $p$ , Pearson's formula

$$\log \frac{\Gamma(p+1)}{p^p e^{-p}} = .399,089,9342 + \frac{1}{2} \log p + .080,929 \sin \left( \frac{25^\circ.623}{p} \right).$$

For accuracy to a large number of places, when  $p$  is greater than 20, Degen's tables are invaluable.

The reader will find some discussion of approximate formulae for the complete  $\Gamma$ -function in *Biometrika*, Vol. vi. p. 118.

The present book of tables it must be understood does not provide this complete  $\Gamma$ -function; it will be often required but must be found elsewhere‡.

The Incomplete  $\Gamma$ -function is defined to be  $\Gamma_x(p+1) = \int_0^x e^{-x} x^p dx \dots\dots\dots(ii),$

so that in the same symbolism the complete  $\Gamma$ -function is  $\Gamma_{\infty}(p+1)$ , but for brevity and out of respect for the historical evolution we usually drop the sign of infinity, and consider that when no value is given for  $x$  we are referring to the complete function. Such a form as (ii), however, is for many reasons neither convenient for tabulation, nor suitable for statistical use. If it were tabulated, we should have to tabulate its logarithm, for with the increase of  $p$ ,  $\Gamma_x(p+1)$  becomes very large in value. On the other hand in statistical use, where  $\Gamma_x(p+1)$  occurs as a skew probability integral, it is the ratio of  $\Gamma_x(p+1)$  to  $\Gamma_{\infty}(p+1)$ —giving the *chance* of a variation exceeding a given limit—that customarily we require.

We term  $\Gamma_x(p+1)/\Gamma_{\infty}(p+1)$  the  $I(x, p)$ -function, and it is the evaluation of the  $I(x, p)$ -function with which we are principally concerned in this book of tables. The  $I(x, p)$ -function always lies between 0 and 1, like the familiar probability integral which deals with one case of symmetrical probability. Thus  $I(x, p)$  solves our first difficulty of the great range of values involved in tabling  $\Gamma_x(p+1)$ . Those who require the absolute value of the latter function must use the present tables in conjunction with tables of the complete  $\Gamma$ -function, or with approximating formulae for that function.

The second serious difficulty which arises is that of the extreme differences in the value of the argument  $x$  which must be allowed for, if we are to table  $I(x, p)$  from zero up to unity showing seven figures. In other words the requisite range of  $x$ —since  $x$  theoretically runs from 0 to  $\infty$ —varies very much from  $p = -1$  to  $p = 50$ . In order to get over this difficulty we use as our argument not  $x$ , but  $u = x/\sqrt{p+1}$ . The range of  $u$ , still considerable, forms one of the difficulties of setting up the table, but the  $u$ -argument is far more workable than the  $x$ -argument§. The present tables therefore deal with  $I(u, p)$ , not  $I(x, p)$ . The reason for selecting the relation  $u\sqrt{p+1} = x$  will be obvious at a somewhat later stage of

\* *Tracts for Computers*, No. iv. Cambridge University Press, 1921.

† For title in full see p. xviii below.

‡ If seven-figure accuracy be adequate, Legendre's Table of the Complete  $\Gamma$ -function to that number of figures will be found in *Tables for Statisticians and Biometricians*, pp. 58-61.

§ The  $x$ -argument would have been more serviceable for interpolation in the early part of the table, say from  $p = -1$  to 1 and  $u = 0$  to 1.5, but it seemed very undesirable to change the argument for a portion of the table.

this Introduction; it is in complete analogy with the similar treatment of the symmetrical probability table.

Table I gives  $I(u, p)$  with the argument  $u$  proceeding by increments of  $\cdot 1$  from 0 up to that value of  $u$  which gives  $I(u, p) = 1\cdot 000,0000$  to the seventh decimal place. The argument  $p$  advances from  $-1\cdot 0$  to  $1\cdot 0$  by increments of  $\cdot 05$ ; from  $1\cdot 0$  to  $5\cdot 0$  by increments of  $0\cdot 1$ ; and from  $5\cdot 0$  to  $50\cdot 0$  by intervals of  $0\cdot 2$ .

Such changes of argument are essential in a table of double-entry if it is to be published at all. It is a question not only of expense but of the labour of production. The present series of tables occupies more space and has involved far more labour in computation than an ordinary table to seven figures of logarithms to base ten. To provide such a table working to seven figures by *first* differences would have more than quadrupled the work of production, and when completed the cost of publication would have been prohibitive. Further certain difficulties which arise in our system of argument ranges would still have remained. Such are the difficulties of what may be termed boundary areas. These difficulties will become very familiar to the computer when tables of double-entry are more common\*. As far as we are aware this is the first large table of double-entry which has hitherto been published, and we have had to meet the problems which such tables present both by way of choice of argument, by methods of interpolation, and in composition† without the benefit of any experience from earlier publications. In the boundary areas we are compelled to use auxiliary functions, to reduce our increments of argument or to adopt more elaborate methods of interpolation. In such areas we may find according to the nature of the function our differences divergent, or the need of using higher differences than those tabled, if we wish the same accuracy as in the bulk of the table.

Special areas of difficulty of the present table are (a) the boundary area from  $p = -1$  to  $-0\cdot 70$  about, (b) the boundary area from  $u = 0$  to  $u = 1\cdot 5$ , extending further, however, from  $p = -1$  to  $p = 10$ . The portion of the field common to these two areas is perhaps the most difficult for satisfactory interpolation.

Our function  $y = e^{-x} x^p$  has infinite differentials when  $x = 0$  and  $p$  lies between 0 and  $-1$ , and this difficulty reflects itself in the differences. It appeared idle to table the  $p$  differences for the values of  $I(u, p)$  between  $p = -1$  and  $p = -0\cdot 80$  for low values of  $u$ , and after careful consideration it was thought best to omit them entirely for the whole range as an indication to the computer using the tables that interpolation for  $p$  by ordinary formulae within this range would prove unsatisfactory. In certain portions of this range  $\delta_p^6$  and  $\delta_p^8$  might slightly better matters, but it was clearly not possible to print so many differences. As the whole of the negative  $p$  part of the table had to be calculated by brute force, the suggestion that  $p$ -arguments should proceed by  $\cdot 01$  intervals, which would have eased matters to some extent, was not only excluded by the space required‡, but also by its great demand on the time of the computers. In interpolating for  $p$  between  $-0\cdot 75$  and  $-0\cdot 65$  by central difference formulae using  $\delta_p^2$  and  $\delta_p^4$  only, we may still find an error of a unit or, in some few regions two units possibly, in the seventh decimal place. In the boundary area between  $p = -1\cdot 0$  and  $p = -0\cdot 90$  especially when  $u$  is small we must admit the fairly complete failure of difference formulae, and we are thrown back on other methods of procedure, which will be discussed later in this Introduction.

We are able to surmount some of our difficulties for  $u$  small by the use of an auxiliary function. This function is

$$I'(u, p) = I(u, p)/u^{p+1} \dots\dots\dots(iii),$$

the values of  $\log I'(u, p)$  are given in Table III§ for  $p = -1$  to 10 and  $u = 0$  to  $1\cdot 5$ ; thus the computer who has found  $I'(u, p)$  has only to add  $(p + 1) \log u$  and look out the anti-logarithm in order to obtain  $I(u, p)$ . This table will provide accurate results for  $I(u, p)$  until we approach the boundary  $p = -1$  when the old difficulties of interpolation with regard to  $p$  again occur. It does, however, enable us to interpolate accurately for  $u$  in any tabled series of values of  $I(u, p)$ .

Various other auxiliary functions were discussed in the course of the work—the aim being to find one with adequate  $\delta^2, \delta^4$  differences in the boundary region of either  $u = 0$  or  $p = 0$ . Some gave slightly better

\* See on these points K. Pearson: *Tracts for Computers*, No. III. 'On the Construction of Tables and on Interpolation.' Part II. Bi-variate Tables.

† The conflict lies between condensation of material and a uniform plan of presentation. The former decreases the cost of production at the expense of the easier handling by the computer.

‡ Table II would have required more than 100 pages of figures instead of 21 pages.

§ To compute the central differences of  $\log_{10} I'(u, p)$ , it was needful first to calculate  $\log_{10} I'(u, p)$  for  $u = 0$ , its value is then

$$\log_{10} I'_{(0,p)} = \frac{1}{2}(p-1) \log_{10}(p+1) - \log_{10} \Gamma(p+1) \dots\dots\dots(iii) \text{ bis.}$$

Further it became necessary to carry the formula for  $\log_{10} I'(u, p)$  backwards into the negative values of  $u$ , if we were to obtain  $\delta^2 u$  and  $\delta^4 u$  for the  $u = 0$  central differences. The following formula gives  $\log_{10} I'(-u, p)$  in terms of  $\log_{10} I'(u, p)$  and a rapidly converging series,

$$\begin{aligned} \log_{10} I'(-u, p) = & 2 \log_{10} I'(0, p) - \log_{10} I'(u, p) + \log_{10} \left\{ 1 + \frac{u^2(p+1)^2}{(p+2)^2(p+3)} + \frac{u^4(p+1)^3}{(p+2)(p+3)^2(p+4)(p+5)} \right. \\ & \left. + \frac{u^6(p+1)^4}{(p+2)(p+3)(p+4)^2(p+5)(p+6)(p+7)} + \dots \right\} \dots\dots\dots(iii) \text{ ter.} \end{aligned}$$



results than  $\log I'(u, p)$ . But none were so markedly better as to warrant their adoption, as they involved several more additional terms to be calculated on each entry into the table.

From one such auxiliary function supplemented by direct calculation we proceeded to compute the value of  $I(u, p)$  at every .01 of negative  $p$  from  $p = -.99$  to  $-.75$  for the values of  $u$  from 0.9 to 6.0. We added to it by 'brute force' calculation the values from  $u = 0$  to  $u = 0.9$ , but even here the results were only reliable to five figures. Beyond the value  $u = 6.0$  we shall show that a reduction formula will give quite accurate results from the present tables. We have not succeeded in finding any satisfactory interpolation method for the area  $p = -1.0$  to  $p = 0$ , and  $u = 0$  to  $u = 6.0$  short of a table of the function for every .01 of  $p$  calculated directly. Such a table would practically mean an independent work, and it would not even then be satisfactory for the range  $p = -1.0$  to  $p = -.95$ , where still smaller argument-increments would have to be adopted.

Failing such a table we show in a later section of this Introduction how to obtain these values of  $I(u, p)$  accurately to 6 or 7 figures. As for many statistical purposes five-figure accuracy is adequate we give as Table V a table of  $I(u, p)$  from  $p = -1.0$  to  $p = -.75$  and  $u = 0$  to  $u = 6.0$  correct to five figures. It may be looked upon as a temporary aid to the computer within this area of our asymmetrical probability integral in the case of J-shaped or asymptoting frequency curves\*.

The frequency curve for which the Incomplete  $\Gamma$ -function forms the probability integral is

$$y = y_0 \left(1 + \frac{x'}{a}\right)^p e^{-\frac{px'}{a}} \dots\dots\dots (iv),$$

the origin being at the mode †. This takes the J-shaped or asymptotic form for  $p$  between  $-1.0$  and  $0.0$ .

If we write  $v = p(1 + x'/a)$ , we find 
$$y = y_0 \frac{e^p}{p^p} v^p e^{-v} \dots\dots\dots (v),$$

and accordingly the chance that an individual shall occur within a distance 0 to  $x$  of the finite end of the curve is

$$I(v, p) = \frac{\int_0^v e^{-v} v^p dv}{\int_0^\infty e^{-v} v^p dv} \dots\dots\dots (vi), \quad \text{where } v = px/a \dots\dots\dots (vii).$$

Now the mean of this curve is 
$$\bar{x} = \frac{p+1}{p} a \dots\dots\dots (viii),$$

and the standard deviation  $\sigma$  is given by 
$$\sigma = \frac{\sqrt{p+1}}{p} a \dots\dots\dots (ix).$$

Accordingly 
$$v = \sqrt{p+1} \frac{x}{\sigma} \dots\dots\dots (x).$$

Thus if  $u$  be the ratio of a deviation, measured from the start of the frequency, to the standard deviation,  $u = x/\sigma$  and

$$v = \sqrt{p+1} u \dots\dots\dots (xi).$$

Thus 
$$I(u, p) = \frac{\int_0^{u\sqrt{p+1}} e^{-v} v^p dv}{\Gamma(p+1)} \dots\dots\dots (xii),$$

which is the function tabled in Table I. It is therefore the probability integral of the skew curve

$$y = y_0 \left(1 + \frac{x'}{a}\right)^p e^{-\frac{px'}{a}}$$

after proper transformation of the constants ‡. The usual statistical constants of this curve are found by determining the moment coefficients  $\mu_2, \mu_3, \mu_4$  about the mean where  $\mu_s = S(x - \bar{x})^s / N$ , where  $N$  is the total population or frequency. We further take  $\beta_1 = \mu_3^2 / \mu_2^3$ ,  $\beta_2 = \mu_4 / \mu_2^2$ , and it will be necessary (if not wholly sufficient) that

$$2\beta_2 - 3\beta_1 - 6 = 0 \dots\dots\dots (xiii).$$

\* Even here the reader must be cautioned against rash interpolations between  $u = 0$  and  $u = 1.0$  into this table: see later, p. xiii.  
 † *Phil. Trans.* Vol. 180 A, p. 373.  
 ‡ Our tables do not of course cover all skew variation, but they provide 'probability integrals' for some 520 skew curves, distributed along the line  $2\beta_2 - 3\beta_1 - 6 = 0$ . The ordinary probability integral table covers only one curve on this line, that which corresponds to the point  $\beta_1 = 0, \beta_2 = 3$ .

We have further by integration from (v) and transference to mean

$$\mu_2 = \frac{p+1}{p^2} a^2, \quad \mu_3 = \frac{2(p+1)}{p^3} a^3, \quad \mu_4 = \frac{3(p+1)(p+3)}{p^4} a^4 \quad \dots\dots\dots(xiv)$$

leading to

$$\beta_1 = 4/(p+1), \quad \beta_2 = 3 + 6/(p+1) \dots\dots\dots(xv).$$

Having found  $\beta_1$  and  $\beta_2$  from our observations we test (xiii) to see if it be reasonably satisfied; we find  $p$  from  $\beta_1$  and then  $a$  from (ix), since  $\sigma = \sqrt{\mu_2}$  is known from the observations; and we obtain  $y_0$  from the consideration that

$$N = \int_{-a}^{\infty} y dx' = y_0 \frac{e^p}{p^2} \frac{a}{p} \int_0^{\infty} v^p e^{-v} dv = y_0 \frac{e^p}{p^2} \frac{\sigma}{\sqrt{p+1}} \Gamma(p+1);$$

or

$$y_0 = \frac{N p^2 e^{-p} \sqrt{p+1}}{\sigma \Gamma(p+1)} = \frac{N}{\sigma} \chi(p) \quad \dots\dots\dots(xvi).$$

$$a = \text{Distance from finite tail of curve to mode} = (p/\sqrt{p+1}) \sigma \quad \dots\dots\dots(xvii).$$

$$D = \text{Distance from mode to mean} = \bar{x} - a = (\sigma/\sqrt{p+1}) \quad \dots\dots\dots(xviii).$$

$$\text{Skewness (= Sk.)} = \frac{\text{Distance from mode to mean}}{\text{Standard deviation}} = \frac{1}{\sqrt{p+1}} \dots\dots\dots(xix).$$

If  $d$  be the distance from mode to median, *i.e.* the abscissa of ordinate which bisects area of curve\*,

$$\frac{d}{D} = .6666,6667 + .0197,5309 (\text{Sk.})^2 + .0072,1144 (\text{Sk.})^4 + 0003,8554 (\text{Sk.})^6 \quad \dots\dots\dots(xx),$$

which enables us to determine very easily the median value.

Table IV enables us as soon as  $\beta_1$  and  $\sigma$  are known from our observations to determine readily  $p$ ,  $a$ ,  $D$ ,  $\text{Sk.}$ , and  $\chi(p)$  giving  $y_0$  from (xvi).

The main tables for  $I(u, p)$  will then provide the probability of the occurrence of a deviation exceeding any given size. In other words our tables provide for a wide range of skew frequency curves exactly what the normal probability integral table does for a special symmetrical or Gaussian type of frequency.

The great cost of printing has hindered the issue at the same time of a table of ordinates. These can, however, be readily calculated when a diagram is desired from Table XXVI of the *Tables for Statisticians*.

## (II) HISTORY OF THE PRESENT TABLES.

The present tables were planned in 1903 or 1904 and a start made on them in 1905†. But the method then adopted, which consisted in expanding the integral in incomplete normal moment functions was found to be inadequate in exactness, and, after a great deal of work had been done, had to be discarded‡. In 1913 Mr P. F. Everitt at the writer's suggestion restarted the work on a new plan tabling in terms of the standard deviation as unit. This for the first time gave a reasonable scheme for the abscissa argument for various values of the power argument. Mr Everitt used the formula

$$I(u, p) = \frac{1}{\Gamma(p+1)} \int_0^{u\sqrt{p+1}} v^p e^{-v} dv,$$

and found to *six* places of decimals by quadratures the value of this integral for

$$p = 0.5, 1, 6, 10, 12, 14, 16, 18, 20, 25 \text{ and } 30.$$

He then found by the series expansion the same integral for  $p = 1, 2, 3, 4, 5, 6$  and  $8$ . His work showed the possibility of constructing an Incomplete  $\Gamma$ -function table on these lines. Mr Everitt also pointed out the relation between  $I(u, p)$  and the  $P$  of the 'Goodness of Fit' Tables (*Tables for Statisticians*, Table XII), namely  $I(u, p) = 1 - P$  if  $n' = 2p + 3$  and  $\frac{1}{2}\chi^2 = 2u\sqrt{p+1}$ . This served as a check on the correctness of certain isolated values of the function. From the mathematical standpoint this relation enables us to sum the first  $p+1$  terms of the exponential expansion, *i.e.* their sum =  $e^x \{1 - I(p, x)\}$  and is found at once from Table I.

\* See A. T. Doodson, *Biometrika*, Vol. xi. p. 428.

† See *Biometrika*, Vol. v. p. 173.

‡ That work was designed to cover both incomplete  $\Gamma$ - and  $B$ -functions and gives fairly accurately the area for some distance on either side of the mode by a reasonable number of normal moment functions. At a considerable distance from the mode so many normal moment functions are required and their coefficients are such complicated functions of the parameters that the method becomes inadequate. The incomplete normal moment functions up to the tenth were computed in the first place for this purpose, but they serve various other not unimportant ends. They were published in *Biometrika*, Vol. vi. p. 68, 1908.



The tables were again taken up in 1915 and 1916, but we discarded the idea of a six-figure table and determined to base our work on a 'frame' going to eight figures calculated by quadratures for every unit of  $p$  from 0 to 50 and proceeding by 0.1 increments of  $u$ . Such a 'frame' was calculated in part by Dr Arthur T. Doodson and in part by Dr Kirstine Smith. The bulk of this frame was obtained by using Weddle's quadrature formula, but this was not found sufficiently accurate for some of the values of  $u$  from 0 to 1.0. Accordingly the top of the table was obtained by the expansion formula for each individual value of  $u$  and  $p$ , and this was continued just so far as there was any difference in result in the quadrature and series processes. This 'frame' was found adequate to complete the table from  $p = 15$  to  $p = 50$  using either 8- or 10-point interpolation formulae. The work of interpolation from 15 to 25 was carried out by Dr Kirstine Smith during 1917. The whole matter was then laid aside as the available computers were in great demand for gunnery work. In September 1918 Miss Ethel M. Elderton took charge of the remainder of the work, and she was ably assisted by Miss M. Noel Karn and later by Miss M. Seegar. They completed the interpolation from  $p = 25$  to 50. Working backwards from 15, it was found that even 10-point Lagrangian formulae were not accurate enough when  $p$  proceeded by unit values. It became needful to reduce the intervals of the 'frame' by proceeding to half units in  $p$ . Now the half units in  $p$  correspond to cases in which the function  $I(u, p)$  can be thrown back on the probability integral and the ordinate of the Gaussian curve of errors. For example,

$$I(u, 3.5) = -e^{-u\sqrt{4.5}} \frac{(u\sqrt{4.5})^{1.5} (4.5u^2 + 3.5u\sqrt{4.5} + 8.75)}{6.5625\sqrt{\pi}} + 2\left\{-\frac{1}{2} - xz + \frac{1}{2}(1+\alpha)\right\} \dots (xxi),$$

where  $x = \sqrt{3u\sqrt{2}}$ ,  $z = (1/\sqrt{2\pi})e^{-x^2}$  and  $\frac{1}{2}(1+\alpha)$  is the value of the probability integral corresponding to  $x$ . The half unit points were accordingly calculated from formulae like the above, and we have to thank Dr W. F. Sheppard for the loan of his tables of the probability ordinate and integral which go to more figures than the published versions of them\*. These were needful in order to obtain seven-figure accuracy in our tables. The additional values of  $I(u, p)$  at half units of  $p$ , together with those at  $p = 5.5$  and 6.5 required for certain differences, enabled us by interpolation to carry the table back to  $p = 1.2$ . From  $p = 1.2$  to  $-0.95$  it became needful to calculate  $I(u, p)$  for every  $p$  in the table. This was chiefly done by quadrature of the integral using Weddle's formula. This method failed, however, for values of  $u$  between 0 and 1, and here integration by parts had to be used. The .10 values of  $p$  in Table II were computed by Miss M. Seegar and Miss E. Pairman; the .05 values by Miss E. M. Elderton, Mr E. C. Rhodes and Miss M. N. Karn. The table thus formed permits accurate interpolation to seven figures for any value of  $u$  greater than 1.5 for a recorded value of  $p$ .

The table for  $\log I'(u, p)$ , chiefly calculated by Miss M. N. Karn and K. Pearson, permits interpolation for  $u$  less than 1.5, also for recorded values of  $p$ . Below  $p = -.75$  to  $-.95$ , interpolation from our tables even with a 10-point Lagrangian formula will only give about five-figure accuracy for  $u < 6.0$ . Over this area, unless he has to deal with a recorded value of  $p$ , the reader will probably find it best to content himself with five-figure accuracy and use the five-figure table (Table V) or, where available, the adjusted table (p. xiv) for each .01 of  $p$  up to  $u = 6.0$ . They are due to Miss E. M. Elderton and Miss M. Moul.

Finally we may note that K. Pearson and H. E. Soper prepared the table of the constants of the skew curve (Table IV); that E. C. Rhodes contributed largely to the series of differences and in association with Miss E. M. Elderton did most of the proof reading, which consisted in checking the printed tables from the original eight-figure working sheets. Besides those, whose names are referred to in the above historical account, it may be safely said that hardly any worker in the Laboratory during the last ten years has failed to contribute in some way to the progress of 'Gamma.' The casual user of these tables may hardly appreciate the labour involved and may indeed believe that they could have been in many ways bettered. There are always difficulties about cooperative work of this kind, when the workers are numerous and the task a protracted one. The scope of the tables themselves and the methods of computing have changed in the course of our labours. We trust that there are few errors and few misprints in the tables as now issued; at any rate we have done what lay in our power to avoid them. On the other hand we are as conscious as any user of these tables can possibly be of their defects. These have already been partially indicated in the preceding pages and will be referred to again in the following sections of this Introduction. We believe that they lie in the very nature of the function which it has been our lot to tabulate. For  $p = -1$  the differentials with regard to  $p$  of  $I(u, p)$  become infinite; and, for low values of  $p$ , fairly low differentials of  $I(u, p)$  with regard to  $u$  become infinite for  $u = 0$ . Thus ordinary interpolation formulae fail. It would take too much space to describe the various interpolation formulae, not based on the fitting of high order parabolae, we have tried. It suffices to say that in all cases they involved computations as long and less accurate than computing *de novo* an integration by parts or a quadrature by Weddle's formula.

\* Tables for Statisticians, Tables I and II.

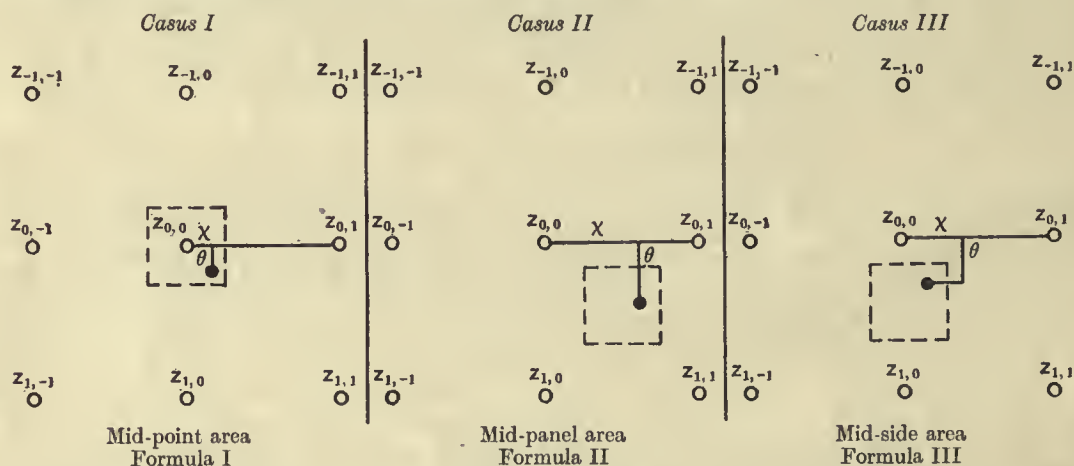
(III) INSTRUCTIONS AS TO USE OF THE TABLES.

The accompanying *Key* (p. xi) gives the methods likely to prove most serviceable for obtaining the value of the Incomplete  $\Gamma$ -function for the corresponding values of  $u$  and  $p$ . Our tables had necessarily to stop at some value of  $p$  and this was chosen at  $p = 50.0$ . This limit was not set by any peculiar fitness in  $p = 50$ , but by the necessity for limiting the labour involved. We feel accordingly a need for advising the computer how to proceed when  $p$  is  $> 50$ . Further we have warned the reader of this Introduction that ordinary interpolation will fail to give great accuracy when  $u$  is small and  $p$  negative, or when  $p$  is less than  $-.75$  and  $u$  not small. Of the 36 regions into which the *Key* divides the range of values of  $u$  and  $p$ , ten (7, 14, 15, 16, 23, 24, 25, 32, 33, 34) are to seven-figure accuracy provided directly for by Table I. A further six (12, 13, 21, 22, 30, 31) are provided for to the same accuracy by Table II. Finally two more areas (5, 6) may be dealt with by Table III.

If only five-figure accuracy is required then Table III (3, 4), Table II (20, 29) and Table V (2, 11) cover six further regions and leave only twelve remaining regions to be dealt with. Of these the function is zero in two (8, 9); for six further ones (17, 18, 26, 27, 35, 36), which fall outside the range of our present tables, methods of attack must be described. The remaining four regions (1, 10, 19, 28) fall into the difficult area of  $p$  between  $-.99$  and  $-1.00$ , where no method of interpolation has so far proved effectual. We shall proceed to consider the individual areas after we have dealt with two points, ( $\alpha$ ) the interpolation formulae for bi-variate tables and ( $\beta$ ) the reduction formulae for the Incomplete  $\Gamma$ -function.

(a) *Interpolation Formulae for Bi-Variate Tables.*

The present editor has discussed elsewhere\* the formulae requisite for bi-variate interpolation. Unfortunately he followed somewhat too closely the ideas in Newton's *Methodus Differentialis*, and expanding Newton's methods of *Casus I* and *Casus II* overlooked the fact that beside a mid-panel and a mid-point central difference formula when we come to bi-variate functions there will be a *Casus III*, namely a mid-line or mid-side formula. This oversight is here rectified. The suitable interpolation areas for applying the three formulae are indicated in the accompanying diagram.



The coordinates of the interpolate into the table (argument-increment as unit) are as above  $\theta$  and  $\chi$ . Further  $\phi = 1 - \theta$ ,  $\psi = 1 - \chi$ , and the central differences are

$$\begin{aligned} \delta^2 z_{ss'} &= z_{s+1, s'} + z_{s-1, s'} - 2z_{s, s'}, & \delta^4 z_{ss'} &= \delta^2 z_{s+1, s'} + \delta^2 z_{s-1, s'} - 2\delta^2 z_{s, s'}, \\ \delta'^2 z_{ss'} &= z_{s, s'+1} + z_{s, s'-1} - 2z_{s, s'}, & \delta'^4 z_{ss'} &= \delta^2 z_{s, s'+1} + \delta^2 z_{s, s'-1} - 2\delta^2 z_{s, s'}, \\ \delta^2 \delta'^2 z_{ss'} &= \delta'^2 z_{s+1, s'} + \delta'^2 z_{s-1, s'} - 2\delta'^2 z_{s, s'} = \delta^2 z_{s, s'+1} + \delta^2 z_{s, s'-1} - 2\delta^2 z_{s, s'}. \end{aligned}$$

In our case  $\delta^2$  will refer to  $u$  and  $\delta'^2$  to  $p$ . The signs of  $\chi$  and  $\theta$  must follow those of first and second subscript respectively. It will be seen that in *Casus I*, the Mid-point Central Difference Formula, there are five adjacent points, and the interpolants are the values of the function and its differences at these points. In *Casus II* there are only four next nearest points, while in *Casus III* there are no less than six interpolants concerned. Thus, as in uni-variate interpolation, preference is very often given to *Casus II* (Everett's Central Difference Formula) on account of its greater simplicity, and its use is extended with

\* 'On the Construction of Tables and Interpolation,' Part II. Bi-Variate Tables. *Tracts for Computers*, No. III. Cambridge University Press.



*Key to Methods of Computing the Incomplete  $\Gamma$ -Function.*

Value of $u$	Value of $p$										Value of $u$
	-1.00 to -0.99	-0.99 to -0.75	-0.75 to -0.65	-0.65 to -0.50	0.0 to 5.0	5.0 to 10.0	10.0 to 50.0	50.0 to 70.0	Above 70.0		
0.0 to 1.5	1 xv, xx Method A (7 decimals or more)	2 xv, xx, xxi Table V adjusted (5 decimals) Method A (7 decimals or more)	3 xv, xx, xxvi Table III (5 decimals) Method A (7 decimals or more)	4 xxvi, xxvii Table III (6 decimals) Method C (7 decimals)	5 xxvi, xii Table III (7 decimals)	6 xii, xxiii- Table III (7 decimals) or Table I (7 decimals)	7 xii, xxiii- Table I (7 decimals)	8 ... Function zero to 7 decimals	9 ... Function zero to 7 decimals		0.0 to 1.5
1.5 to 6.0	10 xv, xii, xxv Method A (7 decimals or more)	11 xv, xii, xx Table V (5 decimals) Method A (7 decimals or more)	12 xii, xxiii- Table II (7 decimals)	13 xii, xxiii- Table II (7 decimals)	14 xii, xxiii- Table I (7 decimals)	15 xii, xxiii- Table I (7 decimals)	16 xii, xxiii- Table I (7 decimals)	17 xvi, xxvii- Methods D' or D (7 decimals)	18 xvi, xviii, xxviii, xxx Method D' or use Weddle's Formula, 18 to 24 ordinates (about 6 decimals)		1.5 to 6.0
6.0 and upwards	19 xv, xx, xxi Method A, up to $u=10$ (7 decimals or more) Method B, $u > 10$ (7 decimals)	20 xv, xxi, xii Table II (5 decimals) Method B (7 decimals)	21 xii, xxiii- Table II (7 decimals)	22 xii, xxiii- Table II (7 decimals)	23 xii, xxiii- Table I (7 decimals)	24 xii, xxiii- Table I (7 decimals)	25 xii, xxiii- Table I (7 decimals)	26 xvi, xxvii Method D $u < \sqrt{p+1}$ Method D $u > \sqrt{p+1}$	27 xviii, xxx Use Weddle's Formula, 18 to 24 ordinates (about 6 decimals)		6.0 and upwards
$u$ of the order $\sqrt{p+1}$	28 Methods as above	29 Methods as above	30 Methods as above	31 Methods as above	32 xi, xxiii- Tables I or III (7 decimals)	33 xi, xxiii- Table I (7 decimals)	34 xi, xxiii- Table I (7 decimals)	35 xvi, xix, xxviii Method E (7 decimals) Method E'	36 xvi, xix, xxviii Method E (7 decimals) Method E'		$u$ of the order $\sqrt{p+1}$

The above *Key* enables the computer to see at a glance what appears at present to be the most suitable method of obtaining the value of any Incomplete  $\Gamma$ -function. Where alternative methods are provided the choice must depend on the number of decimal places required. The number of decimals indicated is, of course, only approximative and in certain cases there may be a slight error in the last figure. The Roman numerals refer to the pages of the Introduction where the methods will be found discussed.

increasing inexactitude to *Casus I* or *Casus III*. In the bulk of the area covered by the present tables, this may only mean a unit in the seven-figure, but if a maximum of exactness is required the appropriate *Casus* should be used. The following are the formulæ to be used:

*Casus I. Mid-point Central Difference Interpolation Formula.*

$$\begin{aligned}
 z_{\theta, \chi} = & z_{0,0} + \frac{1}{2}\chi(z_{0,1} - z_{0,-1}) + \frac{1}{2}\theta(z_{1,0} - z_{-1,0}) + \frac{1}{4}\theta\chi(z_{1,1} - z_{1,-1} - z_{-1,1} + z_{-1,-1}) \\
 & + \frac{1}{2}\chi^2(1 - \frac{1}{2}\theta^2)\delta'^2z_{0,0} + \frac{1}{2}\theta^2(1 - \frac{1}{2}\chi^2)\delta^2z_{0,0} + \frac{1}{8}\theta^2\chi^2(\delta'^2z_{1,0} + \delta'^2z_{-1,0} + \delta^2z_{0,1} + \delta^2z_{0,-1}) \\
 & + \frac{1}{4}\theta^2\chi(\delta^2z_{0,1} - \delta^2z_{0,-1}) + \frac{1}{4}\theta\chi^2(\delta'^2z_{1,0} - \delta'^2z_{-1,0}) \\
 & - \frac{1}{12}\theta(1 - \theta^2)(\delta^2z_{1,0} - \delta^2z_{-1,0}) - \frac{1}{12}\chi(1 - \chi^2)(\delta'^2z_{0,1} - \delta'^2z_{0,-1}) \\
 & - \frac{1}{24}\theta\chi(1 - \theta^2)(\delta^2z_{1,1} - \delta^2z_{1,-1} - \delta^2z_{-1,1} + \delta^2z_{-1,-1}) - \frac{1}{24}\theta\chi(1 - \chi^2)(\delta'^2z_{1,1} - \delta'^2z_{1,-1} - \delta'^2z_{-1,1} + \delta'^2z_{-1,-1}) \\
 & - \frac{1}{24}\theta^2(1 - \theta^2)\delta^4z_{0,0} - \frac{1}{24}\chi^2(1 - \chi^2)\delta'^4z_{0,0} \dots\dots\dots(\text{xxii}).
 \end{aligned}$$

*Casus II. Mid-panel Central Difference Interpolation Formula.*

$$\begin{aligned}
 z_{\theta, \chi} = & \phi\psi z_{0,0} + \phi\chi z_{0,1} + \theta\psi z_{1,0} + \theta\chi z_{1,1} \\
 & - \frac{1}{6}\theta\phi\{(1 + \phi)(\psi\delta^2z_{0,0} + \chi\delta^2z_{0,1}) + (1 + \theta)(\psi\delta^2z_{1,0} + \chi\delta^2z_{1,1})\} \\
 & - \frac{1}{6}\chi\psi\{(1 + \psi)(\phi\delta'^2z_{0,0} + \theta\delta'^2z_{1,0}) + (1 + \chi)(\phi\delta'^2z_{0,1} + \theta\delta'^2z_{1,1})\} \\
 & + \frac{1}{12}\theta\phi(1 + \theta)(1 + \phi)\{(2 + \phi)(\psi\delta^4z_{0,0} + \chi\delta^4z_{0,1}) + (2 + \theta)(\psi\delta^4z_{1,0} + \chi\delta^4z_{1,1})\} \\
 & + \frac{1}{36}\theta\phi\chi\psi\{(1 + \phi)(1 + \psi)\delta^2\delta'^2z_{0,0} + (1 + \phi)(1 + \chi)\delta^2\delta'^2z_{0,1} + (1 + \theta)(1 + \psi)\delta^2\delta'^2z_{1,0} + (1 + \theta)(1 + \chi)\delta^2\delta'^2z_{1,1}\} \\
 & + \frac{1}{120}\chi\psi(1 + \chi)(1 + \psi)\{(2 + \psi)(\phi\delta'^4z_{0,0} + \theta\delta'^4z_{1,0}) + (2 + \chi)(\phi\delta'^4z_{0,1} + \theta\delta'^4z_{1,1})\} \dots\dots\dots(\text{xxiii}).
 \end{aligned}$$

*Casus III. Mid-side Central Difference Interpolation Formula.*

$$\begin{aligned}
 z_{\theta, \chi} = & \phi z_{0,0} + \theta z_{1,0} + \frac{1}{2}\chi\phi(z_{0,1} - z_{0,-1}) + \frac{1}{2}\chi\theta(z_{1,1} - z_{1,-1}) \\
 & + \frac{1}{2}\chi^2(\phi\delta'^2z_{0,0} + \theta\delta'^2z_{1,0}) - \frac{1}{6}\theta\phi\{(1 + \phi)\delta^2z_{0,0} + (1 + \theta)\delta^2z_{1,0}\} \\
 & - \frac{1}{12}\theta\phi\chi\{(1 + \phi)(\delta^2z_{0,1} - \delta^2z_{0,-1}) + (1 + \theta)(\delta^2z_{1,1} - \delta^2z_{1,-1})\} \\
 & - \frac{1}{12}\chi(1 - \chi^2)\{\phi(\delta'^2z_{0,1} - \delta'^2z_{0,-1}) + \theta(\delta'^2z_{1,1} - \delta'^2z_{1,-1})\} - \frac{1}{12}\chi^2\theta\phi\{(1 + \phi)\delta^2\delta'^2z_{0,0} + (1 + \theta)\delta^2\delta'^2z_{1,0}\} \\
 & + \frac{1}{120}\theta(1 + \theta)\phi(1 + \phi)\{(2 + \phi)\delta^4z_{0,0} + (2 + \theta)\delta^4z_{1,0}\} - \frac{1}{24}\chi^2(1 - \chi^2)\{\phi\delta'^4z_{0,0} + \theta\delta'^4z_{1,0}\} \dots\dots\dots(\text{xxiv}).
 \end{aligned}$$

Formula (xxiii) has besides its generally symmetrical form this advantage over Formulæ (xxii) and (xxiv); it is true up to, but not including, terms of the *sixth* order in the differences. On the other hand, (xxii) and (xxiv) are only true up to, but not including, terms of the fifth order in the differences\*. Hence if we work only to fourth order differences it is possible that *Casus II* might give a slightly better result than *Casus I* or *Casus III* even within the appropriate areas of those formulæ. But if fifth differences are negligible then each of these formulæ should give the best result of the three in its own region. We now turn to the labour involved in each case.

*Casus I* involves no cross-differences. We have to take out 9 function values, 20 tabulated differences and compute 12 coefficients.

*Casus II*. We have to take out 4 function values, 16 tabulated differences, and calculate 4 cross-differences. This involves taking out another 4 second differences or we need 20 tabulated differences in all. We have to compute, however, no less than 24 coefficients†.

*Casus III*. This involves the taking out of 6 function values and 10 tabulated differences, and the computation of 2 cross-differences. It will be found, however, that these two cross-differences do not involve any second differences which have not already been extracted. In fact we can if we please write the Mid-side Central Difference Interpolation Formula as:

\* The fifth order terms in *Casus I* are:

$$\begin{aligned}
 -\frac{1}{48}\theta^2(1 - \theta^2)\chi(\delta^4z_{0,1} - \delta^4z_{0,-1}) - \frac{1}{48}\chi^2(1 - \chi^2)\theta(\delta^4z_{1,0} - \delta^4z_{-1,0}) + \frac{1}{24}\theta\chi(1 - \theta^2)(4 - \theta^2)(\delta^4z_{1,0} - \delta^4z_{-1,0}) \\
 + \frac{1}{24}\theta\chi(1 - \chi^2)(4 - \chi^2)(\delta^4z_{0,1} - \delta^4z_{0,-1}) - \frac{1}{24}\chi^2\theta(1 - \theta^2)(\delta^2\delta'^2z_{1,0} - \delta^2\delta'^2z_{-1,0}) - \frac{1}{24}\theta^2\chi(1 - \chi^2)(\delta^2\delta'^2z_{0,1} - \delta^2\delta'^2z_{0,-1}).
 \end{aligned}$$

† The fifth order terms in *Casus III* are:

$$\begin{aligned}
 \frac{1}{72}\chi(1 - \chi^2)\theta\phi\{(1 + \phi)(\delta^2\delta'^2z_{0,1} - \delta^2\delta'^2z_{0,-1}) + (1 + \theta)(\delta^2\delta'^2z_{1,1} - \delta^2\delta'^2z_{1,-1})\} \\
 + \frac{1}{24}\theta\chi(1 + \theta)\phi(1 + \phi)\{(2 + \phi)(\delta^4z_{0,1} - \delta^4z_{0,-1}) + (2 + \theta)(\delta^4z_{1,1} - \delta^4z_{1,-1})\} + \frac{1}{24}\theta\chi(1 - \chi^2)(4 - \chi^2)\{\phi(\delta^4z_{0,1} - \delta^4z_{0,-1}) + \theta(\delta^4z_{1,1} - \delta^4z_{1,-1})\}.
 \end{aligned}$$

† We count as a coefficient any case where at least a product of  $\theta, \phi, \chi, \psi$ , is involved.



$$\begin{aligned}
\text{Casus III. } z_{\theta, \chi} &= \phi z_{0,0} + \theta z_{1,0} + \frac{1}{2} \chi \phi (z_{0,1} - z_{0,-1}) + \frac{1}{2} \chi \theta (z_{1,1} - z_{1,-1}) \\
&\quad + \frac{1}{2} \chi^2 (\phi \delta'^2 z_{0,0} + \theta \delta'^2 z_{1,0}) - \frac{1}{6} (1 - \chi^2) \phi (1 - \phi^2) \delta^2 z_{0,0} - \frac{1}{6} (1 - \chi^2) \theta (1 - \theta^2) \delta^2 z_{1,0} \\
&- \frac{1}{2} \chi \frac{\phi (1 - \phi^2)}{3!} \{ (1 + \chi) \delta^2 z_{0,1} - (1 - \chi) \delta^2 z_{0,-1} \} - \frac{1}{2} \chi \frac{\theta (1 - \theta^2)}{3!} \{ (1 + \chi) \delta^2 z_{1,1} - (1 - \chi) \delta^2 z_{1,-1} \} \\
&- \frac{1}{2} \phi \frac{\chi (1 - \chi^2)}{3!} (\delta'^2 z_{0,1} - \delta'^2 z_{0,-1}) - \frac{1}{2} \theta \frac{\chi (1 - \chi^2)}{3!} (\delta'^2 z_{1,1} - \delta'^2 z_{1,-1}) \\
&- \frac{1}{24} \chi^2 (1 - \chi^2) \{ \phi \delta'^4 z_{0,0} + \theta \delta'^4 z_{1,0} \} + \frac{1}{120} \phi (1 - \phi^2) (4 - \phi^2) \delta^4 z_{0,0} + \frac{1}{120} \theta (1 - \theta^2) (4 - \theta^2) \delta^4 z_{1,0} \dots (\text{xxiv}) \text{ bis.}
\end{aligned}$$

We see that there will be 14 coefficients to be computed\*.

If the reader examines the above statements he will see that the Mid-side Formula (xxiv) *bis* probably involves the least labour; there is little to choose, however, between the work involved in (xxii) and (xxiii).

Illustrations of convenient arrangements of the work in using these formulae are given in the succeeding section. They apply in the case of Tables I, II and III, *i.e.* in Regions 5, 6, 7, 12, 13, 14, 15, 16, 21, 22, 23, 24, 25, 30, 31, 32, 33, 34. They also apply to the application of Table II to Regions 20 and 29 and of Table III to Regions 3 and 4.

(a') When we come to the application of Table V for five-figure accuracy in Regions 2 and 11 experience has shown that any interpolation formula which involves the function value 1.0 for  $p = -1.0$  leads to unsatisfactory results. Hence for  $p$  a high negative value it is desirable to use a forward difference formula. Outside the region  $p = -.90$ , and  $u = 1.5$  to  $u = 2.0$ , the formula

$$\begin{aligned}
z_{\theta, \chi} &= z_{00} + \theta \Delta_u z_{00} + \chi \Delta_p z_{00} - \frac{1}{2} \{ \theta (1 - \theta) \Delta_u^2 z_{00} - 2 \chi \theta \Delta_{pu}^2 z_{00} + \chi (1 - \chi) \Delta_p^2 z_{00} \} \\
&\quad + \frac{1}{6} \{ \theta (1 - \theta) (2 - \theta) \Delta_u^3 z_{00} - 3 \chi \theta (1 - \theta) \Delta_{up}^3 z_{00} - 3 \theta \chi (1 - \chi) \Delta_{u^2 p}^3 z_{00} + \chi (1 - \chi) (2 - \chi) \Delta_p^3 z_{00} \} \text{ (xxv)},
\end{aligned}$$

even if we proceed only to second differences will often suffice, or again only one set of third differences may be sensible.

But where  $u$  is small and  $p$  is negative and greater than  $-.90$ , Table V no longer suffices to give even five-figure accuracy. We have two divergent series of differences to deal with, the one due to  $u$  and the other to  $p$ . Table III using  $\log I'(u, p)$  gets over the  $u$ -difference difficulties and is appropriate to the Regions 3, 4 and 5, where  $u$  is small and  $p$  not too close to  $-1.0$ . Central difference mid-panel formulae suited to 'final' or boundary regions are provided in *Tracts for Computers*, No. III. p. 49, and may occasionally be used with advantage in Regions 6 and 7 of the *Key*.

Table III becomes less accurate as  $p$  becomes increasingly negative, and its accuracy has fallen to five figures in Region 3. In Region 2, except for the tabulated values, neither Table III nor Table V suffices for five-figure accuracy. Method *A* gives any required accuracy, however, at not too great an expenditure of labour. What is needed in this Region 2 is to get rid of both series of divergent differences. The  $\log I'(u, p)$  function gets rid of the  $u$  difficulties, but to get rid of the  $p$  difficulties we are compelled to alter our variate  $u$ .

$$\text{If we take } \xi = u \sqrt{1+p} \text{ and write } \xi^{p+1} \times I''(\xi, p) = \int_0^\xi \frac{e^{-x} x^p dx}{\Gamma(p+1)}$$

we have in  $\log I''(\xi, p)$  a function of which the differences with regard to both  $p$  and  $\xi$  are non-divergent, and a table of  $\log I''(\xi, p)$  will enable us to determine  $\log I(\xi, p)$  by adding on  $(p+1) \log \xi$ .

The objection to this process is that we could not have based all our tables on tabulation by  $\xi$  instead of  $u$ ; the length of the  $\xi$  columns would have been interminable. We should have been compelled to change at some point from  $\xi$  to  $u$ , and the variates of entry would not have been uniform. To enable a reader who does not wish to adopt Method *A* for Region 2 we provide on p. xiv a seven-figure table of  $\log I''(\xi, p)$  for the range of  $p = -1.00$  to  $-.90$  and  $\xi = 0$  to  $.30$  by units of  $.01$  for  $p$  and  $\xi$ .

In using the main tables the reader will find occasional areas where the central differences of the function entries are omitted. This may arise from three sources: (a) the omitted differences are insensible to seven-figure accuracy, *e.g.* there is no point whatever in tabling a fourth difference under the value 4 in the last place of figures. (b) The omitted differences cannot be computed owing to the nature of the function itself, *e.g.*  $u = 0$ , or  $= 0.1$  or  $0.2$  in Table I. In such final regions we must use a forward difference formula or introduce an auxiliary function (Table III). (c) The differences may be so large, and so unreliable, *i.e.* diverge at a greater rate than the coefficients converge, that it is safer to omit them, *e.g.* the  $p$  differences of function values near  $p = -1.0$ . For such areas, *e.g.* Regions 1, 10, 19, 28, other methods of computing than interpolating from a table must be dealt with and will be considered below. The user of the tables can hardly fail in the absence of the differences to recognise whether this arises from sources (a), (b) or (c). Should he fail to do so, he will realise what source it arises from when he attempts to determine for himself the missing differences from the table entries.

\* Help in the computation of the bi-variate coefficients may be obtained by the use of A. J. Thompson's 'Table of the Coefficients of Everett's Central Difference Formula,' *Tracts for Computers*, No. v. Cambridge University Press.



Log  $I''(\xi, p)$ . Adjusted Table V for  $p = -1.0$  to  $-.90$ ,  $\xi = .00$  to  $.30$ .

$\xi$	$p = -1.00$	$p = -.99$	$p = -.98$	$p = -.97$	$p = -.96$	$p = -.95$	$p = -.94$	$p = -.93$	$p = -.92$	$p = -.91$	$p = -.90$	$\xi$
.00	.0000000	.0024713	.0048721	.0072036	.0094666	.0116621	.0137911	.0158545	.0178531	.0197877	.0216593	.00
.01	.0000000	.0024284	.0047872	.0070774	.0093000	.0114558	.0135459	.0155710	.0175321	.0194299	.0212654	.01
.02	.0000000	.0023857	.0047026	.0069518	.0091341	.0112504	.0133017	.0152888	.0172125	.0190737	.0208731	.02
.03	.0000000	.0023432	.0046179	.0068268	.0089690	.0110460	.0130586	.0150079	.0168944	.0187190	.0204826	.03
.04	.0000000	.0023009	.0045348	.0067024	.0088047	.0108425	.0128165	.0147282	.0165776	.0183659	.0200937	.04
.05	.0000000	.0022588	.0044515	.0065786	.0086412	.0106400	.0125756	.0144498	.0162623	.0180143	.0197065	.05
.06	.0000000	.0022170	.0043685	.0064554	.0084784	.0104384	.0123361	.0141726	.0159484	.0176642	.0193209	.06
.07	.0000000	.0021754	.0042860	.0063327	.0083164	.0102377	.0120976	.0138967	.0156358	.0173156	.0189370	.07
.08	.0000000	.0021339	.0042039	.0062107	.0081551	.0100379	.0118600	.0136220	.0153246	.0169686	.0185547	.08
.09	.0000000	.0020926	.0041222	.0060892	.0079946	.0098391	.0116235	.0133485	.0150148	.0166231	.0181741	.09
.10	.0000000	.0020516	.0040408	.0059683	.0078348	.0096412	.0113881	.0130762	.0147064	.0162791	.0177952	.10
.11	.0000000	.0020108	.0039598	.0058479	.0076758	.0094442	.0111537	.0128052	.0143993	.0159366	.0174179	.11
.12	.0000000	.0019701	.0038793	.0057281	.0075175	.0092480	.0109204	.0125354	.0140935	.0155956	.0170421	.12
.13	.0000000	.0019296	.0037991	.0056089	.0073599	.0090527	.0106881	.0122668	.0137891	.0152560	.0166679	.13
.14	.0000000	.0018894	.0037193	.0054903	.0072031	.0088584	.0104569	.0119993	.0134861	.0149179	.0162954	.14
.15	.0000000	.0018494	.0036398	.0053722	.0070470	.0086650	.0102267	.0117330	.0131844	.0145813	.0159245	.15
.16	.0000000	.0018095	.0035608	.0052546	.0068917	.0084724	.0099976	.0114679	.0128839	.0142461	.0155551	.16
.17	.0000000	.0017698	.0034821	.0051376	.0067370	.0082807	.0097695	.0112040	.0125847	.0139123	.0151873	.17
.18	.0000000	.0017303	.0034038	.0050211	.0065830	.0080899	.0095424	.0109413	.0122869	.0135800	.0148210	.18
.19	.0000000	.0016909	.0033259	.0049052	.0064297	.0078999	.0093163	.0106797	.0119904	.0132491	.0144563	.19
.20	.0000000	.0016517	.0032483	.0047899	.0062771	.0077108	.0090912	.0104192	.0116952	.0129196	.0140932	.20
.21	.0000000	.0016128	.0031711	.0046750	.0061252	.0075225	.0088672	.0101599	.0114013	.0125916	.0137316	.21
.22	.0000000	.0015742	.0030942	.0045607	.0059741	.0073351	.0086442	.0099018	.0111086	.0122650	.0133715	.22
.23	.0000000	.0015357	.0030177	.0044469	.0058237	.0071485	.0084222	.0096448	.0108172	.0119398	.0130129	.23
.24	.0000000	.0014973	.0029416	.0043346	.0056739	.0069628	.0082010	.0093889	.0105270	.0116159	.0126559	.24
.25	.0000000	.0014591	.0028658	.0042209	.0055248	.0067779	.0079808	.0091341	.0102381	.0112934	.0123004	.25
.26	.0000000	.0014210	.0027904	.0041087	.0053763	.0065938	.0077617	.0088804	.0099505	.0109723	.0119464	.26
.27	.0000000	.0013832	.0027153	.0039970	.0052285	.0064106	.0075436	.0086279	.0096641	.0106526	.0115938	.27
.28	.0000000	.0013455	.0026406	.0038858	.0050814	.0062282	.0073264	.0083765	.0093789	.0103342	.0112427	.28
.29	.0000000	.0013080	.0025662	.0037751	.0049350	.0060466	.0071102	.0081261	.0090950	.0100171	.0108931	.29
.30	.0000000	.0012707	.0024922	.0036649	.0047893	.0058658	.0068949	.0078768	.0088123	.0097013	.0105449	.30

Higher differences than those tabled in Tables I to IV can be found from the consideration that

$$\delta'^{2s+2}z_{0,0} = \delta'^{2s}z_{0,-1} + \delta'^{2s}z_{0,1} - 2\delta'^{2s}z_{0,0}, \text{ and } \delta^{2s+2}z_{0,0} = \delta^{2s}z_{-1,0} + \delta^{2s}z_{1,0} - 2\delta^{2s}z_{0,0},$$

and the full formulae up to 8th differences are given in the *Tract for Computers*, No. III. They can only be of service, however, in very limited regions of the present table.

If the reader expresses astonishment at the comparative labour of using these tables now that they are completed, we tender our sympathy, but are convinced that his astonishment will vanish as he grows more accustomed to the use of bi-variate tables. He has possibly occasionally seen there was some difficulty in interpolating into tables of  $\log \sin x$  or of *natural cot x* when  $x$  was small. Let him consider a bi-variate function like  $\log \sin xy$  or  $\cot xy$  when both  $x$  and  $y$  are small, and he will have a function which like ours is troublesome along two boundaries of the table, but one for which it is easier to find remedies.

As a matter of fact, supposing the use of a machine, which every modern computer has at his command, no interpolation suggested ought to take more than an hour's work and many much less. If the user of these tables groans under that hour, let him compute *de novo* a function value, say  $I(6.86877, 47.1813)$ —including of course  $\Gamma(48.1813)$ —to seven-figure accuracy, and when he has completed the task, we believe his feelings towards those who have provided him with these tables will be very sensibly modified.

( $\beta$ ) *Reduction Formulae for the Incomplete  $\Gamma$ -function.*

The two chief reduction formulae are obtained by respectively lowering and raising  $p$ .

Let

$$\begin{aligned} \xi &= u_1 \sqrt{p+1} = u_2 \sqrt{p+2} = \dots = u_n \sqrt{p+n} \\ &= u_0 \sqrt{p} = u_{-1} \sqrt{p-1} = \dots = u_{-n} \sqrt{p-n}. \end{aligned}$$

Then by integrating by parts either starting with  $x^p$  or with  $e^{-x}$  we find

$$I(u_1, p) = \frac{e^{-\xi} \xi^{p+1}}{\Gamma(p+2)} + I(u_2, p+1) \dots \dots \dots (\text{xxvi}), \quad I(u_1, p) = I(u_0, p-1) - \frac{e^{-\xi} \xi^p}{\Gamma(p+1)} \dots \dots \dots (\text{xxvii}).$$

Hence by repeated application we find

$$I(u_1, p) = \frac{e^{-\xi} \xi^{p+1}}{\Gamma(p+2)} \left\{ 1 + \frac{\xi}{(p+2)} + \frac{\xi^2}{(p+2)(p+3)} + \dots + \frac{\xi^{n-1}}{(p+2)(p+3) \dots (p+n)} \right\} + I(u_{n+1}, p+n) \dots \dots \dots (\text{xxviii}),$$

where  $u_{n+1} = u_1 \sqrt{(p+1)/(p+n+1)}$

and

$$I(u_1, p) = I(u_{-n}, p-n-1) - \frac{e^{-\xi} \xi^p}{\Gamma(p+1)} \left\{ 1 + \frac{p}{\xi} + \frac{p(p-1)}{\xi^2} + \dots + \frac{p(p-1) \dots (p-n+1)}{\xi^n} \right\} \dots (\text{xxix}),$$

where  $u_{-n} = u_1 \sqrt{p/(p-n)}$ .

Clearly if  $\xi$  be small as compared to  $p$  the series in curled brackets in (xxviii) will converge rapidly.  $u_{n+1}$  will decrease in value and  $I(u_{n+1}, p+n)$  become negligible. Since  $u_1$  is equal to  $\xi/\sqrt{p+1}$ , we must have  $u$  small as compared with  $\sqrt{p}$ .

Similarly when  $\xi$  is large compared with  $p$  or  $u$  large compared with  $\sqrt{p}$ , the expression (xxix) is available. But without trusting to rapid convergency of the series we may use either (xxviii) or (xxix) to transfer an Incomplete  $\Gamma$ -function either lying with regard to  $p$  outside the tables into the tables, or if inside the tables, in a region where owing to the value of  $p$  or  $u$  the interpolation is unsatisfactory, into a region where interpolation will give better results.

If  $\xi$  is of the order  $p$ , or  $u$  of the order  $\sqrt{p+1}$ , there, especially when  $p$  is large, neither (xxviii) nor (xxix) can be used to compute effectively  $I(u, p)$  apart from the tables. For example,

to obtain the integral  $\int_0^{45} \frac{x^{48} e^{-x}}{\Gamma(49)} dx$  correct to only five decimal places we require about 30 terms of the series and to evaluate  $\int_{102}^{\infty} \frac{x^{99} e^{-x}}{\Gamma(100)}$  to five-figure accuracy we need 50 terms of the series.

Clearly for integrating up to the neighbourhood of the mean or mode for considerable values of  $p$ , integration by parts is very lengthy, and other methods must be considered.

A third formula, which sometimes may be of value, is obtained by expanding the exponential and integrating. We have, if  $\xi = u \sqrt{p+1}$  as before,

$$I(u, p) = \frac{\xi^{p+1}}{\Gamma(p+2)} \left( 1 - \frac{\xi(p+1)}{1!(p+2)} + \frac{\xi^2(p+1)}{2!(p+3)} - \frac{\xi^3(p+1)}{3!(p+4)} + \dots \right) \dots \dots \dots (\text{xxx}).$$

Less than 20 terms even in such an extreme case as  $u = 6.0$ ,  $p = -0.65$  will give the result correct to more than seven decimals. When  $p$  is  $-0.99$  or still nearer  $-1.0$ , only about 12 terms are required even when  $u$  is as large as 10.

When  $p$  is of the order  $-0.99$  and  $u$  not more than 1.5, then six terms will give no more than seven-figure accuracy. It will be desirable to calculate the terms in the series to about nine-figure accuracy, and the same accuracy in the outside factor  $\xi^{p+1}/\Gamma(p+2)$ . The  $\log \Gamma(p+2)$  is provided by Legendre's Tables of the Complete  $\Gamma$ -function\*.

We term the use of (xxx) *Method A*, and it covers without too great labour the Regions 1, 10 and part of 19 of our *Key*, as well as Regions 2, 3 and 11 where the computer has need of more than five decimal figures.

We now turn to the Regions in the *Key* denoted by 19, 20, 28 and 29. Here (xxviii) will provide what we need. For example in 20, if  $p = -0.75$  and  $u = 6.0$ , then for  $n = 1$  and  $n = 2$  or by the calculation of 1 or 2 terms of the series  $I(6.0, -0.75)$  is reduced to  $I(2.68\dots, .25)$  or  $I(2.0, 1.25)$  both of which fall in the Region 14 and can therefore be found with seven-figure accuracy from Table I.

Again consider  $I(10, -0.99)$  in Region 19 a single or double reduction leads to  $I(.995\dots, .01)$  or  $I(.705, 1.01)$  both in Region 5 of *Key* and therefore discoverable from Table III. We term this process of reduction *Method B*, and it will provide for the remaining Regions (19) and (20) of the negative  $p$  portion of our *Key*.

We shall now consider high values of  $p$  beyond our tabled range. We have indicated that to get five-figure accuracy we may need to calculate 30 to 50 terms. Accordingly it seems best, at least when  $p$  is not greater than 70, to throw back the function into the table by the reduction formula (xxix). For example

\* Or reprinted in *Tracts for Computers*, No. iv. Cambridge University Press.



if we need  $I(6.0, 65.0)$ , we take  $u = 15$ , and reduce it to  $I(6.840\dots, 49.0)$ . This will involve the calculation of 15 terms in the series in (xxix). We term this process of throwing back into the table *Method D*. Sometimes it is convenient when  $u$  is small to use (xxviii). For example  $I(2.0, 63)$  could be reduced by 15 terms of (xxviii) to  $I(1.80\dots, 79)$  which to seven figures is zero. Hence 15 terms would suffice to calculate  $I(2.0, 63)$ . We may call this method *Method D'*. It is, however, only workable for low values of  $u$ .

(γ) *Formulae for Integrals in the Neighbourhood of the Mode.*

In the neighbourhood of  $u = \sqrt{p+1}$ , i.e. in the neighbourhood of the mean or mode when  $p$  is considerable, good results can be obtained by a process which we will term *Method E*. This consists in fitting a quartic curve to  $y = \frac{1}{\Gamma(p+1)} x^p e^{-x}$  in the region of the mean and mode, and integrating the area of this curve from the median to the required point, the area to the median being known to be .5.

Thus we run a quartic curve, horizontal at the mode through points on the curve

$$y = x^p e^{-x} / \Gamma(p+1),$$

namely at the summit of the mode ( $y_2$ ), two units before the mode ( $y_1$ ), at the summit of the mean ( $y_3$ ) and two units beyond the mean ( $y_4$ ). Since the mode is at  $x = p$ , the mean at  $x = p + 1$ , we have

$$\begin{aligned} y_1 &= (p-2)^p e^{-(p-2)} / \Gamma(p+1), & y_2 &= p^p e^{-p} / \Gamma(p+1), \\ y_3 &= (p+1)^p e^{-(p+1)} / \Gamma(p+1), & y_4 &= (p+3)^p e^{-(p+3)} / \Gamma(p+1) \dots\dots\dots(\text{xxxix}). \end{aligned}$$

These four values must first be computed.

The equation to the quartic required *with origin at the mode* is

$$y = y_2 + \frac{9y_1 - 185y_2 + 180y_3 - 4y_4}{180} x^2 - \frac{6y_1 + 10y_2 - 15y_3 - y_4}{90} x^3 + \frac{3y_1 + 25y_2 - 30y_3 + 2y_4}{180} x^4.$$

Let the median be at distance  $d$  from the mode, and the bounding ordinate of the required area at distance  $d'$  from the mode. Then

$$\begin{aligned} \int_0^{p+d'} \frac{x^p e^{-x} dx}{\Gamma(p+1)} &= 0.5 + y_2 (d' - d) + \frac{9y_1 - 185y_2 + 180y_3 - 4y_4}{540} (d'^3 - d^3) \\ &\quad - \frac{6y_1 + 10y_2 - 15y_3 - y_4}{360} (d'^4 - d^4) + \frac{3y_1 + 25y_2 - 30y_3 + 2y_4}{900} (d'^5 - d^5) \dots\dots(\text{xxxix}). \end{aligned}$$

Here  $d'$  may be either positive or negative and  $d$  is to be determined from equation (xx), or

$$d = .6666,6667 + \frac{.0197,5309}{p+1} + \frac{.0072,1144}{(p+1)^2} + \frac{.0003,8554}{(p+1)^3} \dots\dots\dots(\text{xxxix}).$$

It will be found that (xxxix) gives results correct to practically seven figures between mode and mean, and results of about five-figure accuracy even to about half a unit beyond  $y_1$  and  $y_4^*$ . These results are based on  $p$  being about 50; if  $p$  be about 100, six-figure accuracy may be obtained in a range of 3 taken on either side the mode. This process of evaluating the Incomplete  $\Gamma$ -function for high indices we term as we have noted *Method E*. The great misfortune is that its range is so limited†, it is only valid in the immediate neighbourhood of mode and mean. This *Method E* applies to Regions 35 and 36 of the *Key*.

(δ) *Formulae for Values of the p-argument outside the Limits of the Tables.*

We now come to Regions 18 and 27 of the *Key*. Here the labour of *Method D*, or throwing back into the table becomes increasingly wearisome. For  $p = 100$ , we should have to calculate 50 terms before we could find  $I(u_{-n}, p - n - 1)$  from the table. If  $u$  be small *Method D'* will give good accuracy with far fewer than 50 terms. For  $u$  considerable, but not in the neighbourhood of  $\sqrt{p+1}$ , there appears to be only two possible processes:

(a) To use quadrature formulae—we have tried a number and find that Weddle's gives the best results.

We integrate either 
$$\int_0^\xi \frac{x^p e^{-x} dx}{\Gamma(p+1)} \quad \text{or} \quad \int_\xi^\infty \frac{x^p e^{-x} dx}{\Gamma(p+1)}$$

\* A quintic through the additional summit of the ordinate at the median provided six-figure accuracy throughout; but as it involved the value of  $d$  in the coefficients of the powers of  $x$  it gave far more complicated results.

† As the limit to the curve  $y = y_0 x^p e^{-x}$  as  $p$  increases is a normal curve of errors we might seem justified in expanding in either incomplete normal moment functions or what is practically the same thing tetrachoric functions. Such expansions have been tried and found inadequate, except near the mode, even when 30 terms were taken. This will be dealt with on another occasion.



according as  $\xi$  is  $<$  or  $>$   $p + 1$ , so as not to cross the vertex of the curve\*. The Weddle quadrature with 18 or 24 ordinates will give the correct result to about 6 decimal places. If complete seven-figure accuracy is desirable still more ordinates must be used. In the actual construction of the present tables we were using over 60 ordinates when we came to the quadrature of areas near the mode, and these ordinates were computed to eight figures, and the bases being to one-tenth, we obtained accuracy to seven figures.

(b) To use the reduction formulae (xxviii) or (xxix) according as  $\xi$  is less or greater than  $p$ , and to carry this on until the last term of the series is insensible to the required degree of accuracy. In this case  $I(u_{n+1}, p + n)$  in (xxviii) may be put zero and  $I(u_n, p - n - 1)$  in (xxix) be put unity. The whole process is much simplified if we can reckon *a priori* the number of terms in the series we require to go to.

Now the factor  $e^{-\xi} \xi^{p+1} / \Gamma(p + 2)$  is the product of  $\frac{e^{-\xi} \xi^p}{\Gamma(p + 1)}$  and  $\frac{\xi}{p + 1}$  and both of these terms are less than unity for considerable  $p$ , the latter by hypothesis and the former because  $\Gamma(p + 1)$  is  $>$   $e^{-p} p^p$  and  $\xi$  is  $<$   $p$ . For the latter reason  $e^{-\xi} \xi^p / \Gamma(p + 1)$  the factor in (xxix) is less than unity. Accordingly to work to  $s$  decimal accuracy we need in (xxviii) to make

$$\frac{\xi^{n-1}}{(p + 2)(p + 3) \dots (p + n)} \text{ or } \frac{(p + 1)!}{(p + n)!} \xi^{n-1} < 10^{-5}, \text{ and in (xxix) } \frac{p!}{(p - n)!} \xi^{-n} < 10^{-5}.$$

Expressing these as logarithmic inequalities we need to have

$$\log \{(p + n)!\} - (n - 1) \log \xi > s + \log \{(p + 1)!\} \dots \dots \dots (\text{xxxiv}),$$

or

$$\log \{(p - n)!\} + n \log \xi > s + \log \{p!\} \dots \dots \dots (\text{xxxiv}) \text{ bis.}$$

Suppose  $p = 60, \xi = 50$  and we want accuracy to 7 decimal places, and put for safety  $s = 8$ , then we need

$$\log (p + n)! - n \times 1.698,9700 > 90.006,5347.$$

If  $n = 50$ , the left-hand side is 93.252..., if  $n = 40$ , it is 90.021..., if  $n = 41$ , it is 90.316....

Hence 41 terms will provide at least seven-figure accuracy in using the series in (xxviii) to compute  $I(50/\sqrt{61}, 60)$ . The series is then arranged as

$$1 + \frac{\xi}{p + 2} \left\{ 1 + \frac{\xi}{p + 3} \left\{ 1 + \frac{\xi}{p + 4} \left\{ \dots \right\} 1 + \frac{\xi}{p + n - 1} \right\} 1 + \frac{\xi}{p + n} \right\}^\dagger \dots \dots \dots (\text{xxxv}).$$

The operation is now continuous.  $1 + \xi/(p + n)$  is put on the machine, it is multiplied by  $\xi/(p + n - 1)$ , unity is added to the result and it is multiplied by  $\xi/(p + n - 2)$ , unity is again added and the result multiplied by  $\xi/(p + n - 3)$  and so on till we come to  $\xi/(p + 2)$  and add our last unity.

The process is really a very rapid one, but there is no security except the excellence of the computer that a slip has not been made in the long series of operations. A trained computer will, however, multiply by  $\xi$ , divide by  $p + n - s$  and add the unit in continuous sequence transferring from slide to multiplier setting without ever writing anything down on paper. The less-trained, if they adopt this method, are advised to write down their successive factors and the result of each operation so that the stages may be checked by differencing.

For a further illustration consider  $p = 99, \xi = 110$ , and  $s = 8$ , so that we seek  $I(11, 99)$ . We find

$$\log (p - n)! + n \times 2.041,3927 = 163.970,0037.$$

$$n = 40, \text{ the left-hand side} = 161.797\dots,$$

$$n = 46, \quad \text{,,} \quad \text{,,} \quad = 163.534\dots,$$

$$n = 47, \quad \text{,,} \quad \text{,,} \quad = 163.852\dots,$$

$$n = 48, \quad \text{,,} \quad \text{,,} \quad = 164.177\dots$$

\* If the latter formula be used the last ordinate in the infinite tail should be taken to be zero to at least eight figures.

† This formula is of such service for negative  $p$  and small  $u$  that the following table prepared by Miss Ethel M. Elderton will be of real value to the computer. It gives the number of terms  $n$  required for an accuracy in (xxxv) of seven figures.

Values of  $p$

$u$	-99	-95	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-05	00	
0.1	4	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
0.5	5	6	6	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	9
1.0	6	7	7	8	9	9	9	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11
2.0	7	9	10	11	11	12	12	12	13	13	13	14	14	15	15	15	15	15	15	15	16	16

Unity is counted as the first or rather last term working from the right.

Accordingly 48 terms of (xxix) will be needed to be certain of seven-figure accuracy. The continuous product may be written

$$1 + \frac{p}{\xi} \left\{ 1 + \frac{p-1}{\xi} \left\{ 1 + \frac{p-2}{\xi} \left\{ \dots \left\{ 1 + \frac{p-(n-2)}{\xi} \left\{ 1 + \frac{p-(n-1)}{\xi} \right\} \dots \dots \dots \right\} \right\} \right\} \dots \dots \dots \text{(xxxvi)},$$

and we start with  $\{p - (n - 1)\}/\xi$  or, in the above case,  $\frac{52}{110}$  on the machine.

In determining  $n$  from (xxxiv) or (xxxiv) *bis* we require a table of the logarithms of the factorials. This is provided to seven figures in the *Tables for Statisticians\** and is ample for the present purpose.

It is frequently needful, however, to calculate  $\log \Gamma(p + 1)$  to more than seven places of decimals. When  $p$  is considerable this is most easily done by interpolation into a table of the logarithms of factorials to, say, 10 decimal places. We do not know of the existence of such a table and have accordingly had to use Degen's to 18 figures, cutting down to the required number of figures†. Such a table provided with central differences would be far more rapid than using computation by Stirling's Theorem of  $\Gamma(p + 1)$  to a large number of figures.

(ε) *Quadrature Formulae outside the Limits of the Tables.*

While the facile computer may use the 40 to 50 series expansion in Regions 18 and 27 the less fully equipped may prefer to use quadratures. In this case if  $\xi$  be  $< p$ , it will be divided into 18 or 24 equal parts and the ordinates at these calculated, say, by 10-figure logarithms. Let them be in the first case  $y_0 (= 0), y_1, y_2 \dots y_{18}$ . Then the required area is

$$\frac{\xi}{60} \{ (y_0 + y_2 + y_4 + y_8 + y_{10} + y_{14} + y_{16} + y_{18}) + 2(y_6 + y_{12}) + 5(y_1 + y_5 + y_7 + y_{11} + y_{13} + y_{17}) + 6(y_3 + y_9 + y_{15}) \} \dots \dots \dots \text{(xxxvii)}.$$

If 24 ordinates be taken the area is

$$\frac{\xi}{80} \{ (y_0 + y_2 + y_4 + y_8 + y_{10} + y_{14} + y_{16} + y_{20} + y_{22} + y_{24}) + 2(y_6 + y_{12} + y_{18}) + 5(y_1 + y_5 + y_7 + y_{11} + y_{13} + y_{17} + y_{19} + y_{23}) + 6(y_3 + y_9 + y_{15} + y_{21}) \} \dots \dots \dots \text{(xxxviii)}.$$

The computed  $y$ 's may be checked by differencing.

The main labour lies in computing  $\log y_s = p \log(sh) - sh \log e - \log \Gamma(p + 1)$ , where  $h = \xi$  divided by 18 or 24 as the case may be.

This may be written  $\log y_s = p \log h - \log \Gamma(p + 1) + p \log s - sh \log e$ , which can be computed very rapidly as  $s$  runs by integers from 1 to 18 or 20. The chief trouble is obtaining the anti-logs.

When  $\xi$  is  $> p$  we shall evaluate 
$$\int_{\xi}^{\infty} \frac{x^p e^{-x} dx}{\Gamma(p + 1)} = \int_{\xi}^{\xi_0} \frac{x^p e^{-x} dx}{\Gamma(p + 1)},$$

where  $\xi_0$  is so chosen that the ordinate is zero to 8 or even 9 figures. It will be advisable to take at least 24 ordinates, and the area  $\int_0^{\xi} \frac{x^p e^{-x} dx}{\Gamma(p + 1)}$  required will be

$$1 - \frac{\xi_0 - \xi}{80} \{ (y_0 + y_2 + y_4 + y_8 + y_{10} + y_{14} + y_{16} + y_{20} + y_{22} + y_{24}) + 2(y_6 + y_{12} + y_{18}) + 5(y_1 + y_5 + y_7 + y_{11} + y_{13} + y_{17} + y_{19} + y_{23}) + 6(y_3 + y_9 + y_{15} + y_{21}) \} \dots \dots \dots \text{(xxxix)}.$$

Weddle's rule with 24 ordinates may be expected to give the area correct to 6 decimal places, if the  $y$ 's have been calculated to eight or nine-figure accuracy‡.

(η) *Expansion in Incomplete Normal Moment Functions, Method E'.*

Another method of some interest which may be used to obtain the areas in the immediate neighbourhood of the mode or maximum arises from the consideration that when  $p$  becomes very large the curve  $y = y_0 x^p e^{-x}$  passes over into the normal curve  $y = y_0' e^{-\frac{1}{2}x^2/\sigma^2}$ .

Transferring to the mode  $x = p$ , we have

$$\begin{aligned} \frac{(p + x)^p e^{-(x+p)}}{\Gamma(p + 1)} &= \frac{p^p e^{-p}}{\Gamma(p + 1)} e^{-x+p \log \left( 1 + \frac{x}{p} \right)} = \frac{p^p e^{-p}}{\Gamma(p + 1)} e^{-\frac{x^2}{2p} + \frac{x^3}{3p^2} - \frac{x^4}{4p^3} + \frac{x^5}{5p^4} - \dots} \\ &= \frac{p^p e^{-p}}{\Gamma(p + 1)} e^{-\frac{x^2}{2p} \left\{ 1 + \frac{x^3}{3p^2} - \frac{x^4}{4p^3} + \dots \right\}}. \end{aligned}$$

\* Table XLIX, pp. 98-101.

† *Tabularium ad faciliorem et breviorum probabilis computationem utilium Enneas. Havniae, 1824.* This work is now very scarce. A much modified version of it will shortly be issued in the *Tracts for Computers*, Cambridge University Press.

‡ Using Vega's 10-figure logarithms. If 8-figure logarithms be used the result is a little less certain.



Write  $x' = x/\sqrt{p}$ , and  $m_n(x') = \frac{\mu_n(x')}{(n-1)(n-3)\dots 1 \text{ or } 2}$  according as  $n$  is even or odd, where

$$\mu_n(x') = \frac{1}{\sqrt{2\pi}} \int_0^x x'^n e^{-\frac{1}{2}x'^2} dx'$$

Then 
$$\int_0^x \frac{(p+x)^p e^{-(x+p)}}{\Gamma(p+1)} dx = \frac{\sqrt{2\pi p} e^{-p}}{\Gamma(p+1)} \left\{ \mu_0(x') + \frac{1}{\sqrt{p}} \frac{2}{3} m_3(x') + \frac{1}{(\sqrt{p})^2} \left\{ \frac{5}{8} m_6(x') - \frac{3}{4} m_4(x') \right\} + \frac{1}{(\sqrt{p})^3} \left\{ \frac{63}{27} m_9(x') - 4 m_7(x') + \frac{5}{3} m_5(x') \right\} + \text{etc.} \right\} \dots\dots(xl).$$

This is the expansion in normal moment functions to which reference has more than once been made. The series converges very slowly by the factor  $1/(\sqrt{p})$  and, unless  $p$  be very considerably above 100 and  $x'$  be small, does not give very profitable results, even if we include the  $1/(\sqrt{p})^4$  term (not given above as it involves the not tabulated  $m_{12}$ ). The values of the  $m$ 's are tabulated in Table IX of the book of *Tables for Statisticians* up to  $m_{10}$ . To the degree of approximation involved we may write by Stirling's Theorem

$$\frac{\sqrt{2\pi p} e^{-p}}{\Gamma(p+1)} = 1 - \frac{1}{12p} + \frac{1}{288p^2} \text{ nearly } \dots\dots\dots(xli),$$

and formula (xl) for  $p$  of order 50 will give results to about the fourth place of figures within a range of about the standard deviation, say  $\sqrt{p}$  on either side the mode. For a range of about three units either side the mode, *i.e.*  $p \pm 3$ , the formula (xxxii) gives correct results to five or six figures. The method accordingly is somewhat less accurate than the 'quartic' approximation described on p. xvi. A variety of other forms of expansion gave no better results and were more complicated in character. Similar expansions for the Incomplete Beta-function have been discussed by H. E. Soper\*.

(IV) ILLUSTRATIONS OF THE USE OF THE TABLES.

(a) *As Probability Integral of a Skew Curve.* The frequencies below give the distribution of barometer heights for 13 years, or 4748 days, at Cambridge:

28.25—28.35	1	28.95—29.05	23	29.65—29.75	388	30.35—30.45	246
28.35—28.45	0	29.05—29.15	24	29.75—29.85	479.5	30.45—30.55	150
28.45—28.55	0	29.15—29.25	63.5	29.85—29.95	537.5	30.55—30.65	85.5
28.55—28.65	1	29.25—29.35	81	29.95—30.05	586	30.65—30.75	35
28.65—28.75	2	29.35—29.45	127	30.05—30.15	550	30.75—30.85	7.5
28.75—28.85	6.5	29.45—29.55	213	30.15—30.25	488	30.85—30.95	2.5
28.85—28.95	10.5	29.55—29.65	289	30.25—30.35	350.5	30.95—31.05	0.5

The following curve was fitted to them with origin at the mean (29.9524'')

$$y = 42.839 \left( 1 + \frac{x}{1.9613} \right)^{32.5973} e^{-17.1303x},$$

the axis of  $x$  being measured *positive* towards low barometer. It is required to find the theoretical frequencies corresponding to the above observations.

The first process is to interpolate a probability integral from the tables for  $p = 32.5973$ . It is adequate to do this for intervals 0.2 of  $u$ . To find the range of  $u$  we first take  $x'$  as given by

$$x' = 17.1303 (1.9613 + x).$$

The maximum height of the barometer is 29.9524'' + 1.9613 = 31.9137''. For any height  $b$  of the barometer therefore

$$x' = 17.1303 (31.9137 - b),$$

and clubbing terminal observations we may take  $b$  from 28.75 to 30.85. Accordingly since

$$u = x'/\sqrt{p+1} = x'/\sqrt{33.5973},$$

the required range of  $u$  will be from

$$u_0 = 17.1303 \times 3.1637/\sqrt{33.5973}, \text{ or } \frac{9.3499}{9.4442}, \text{ to } u_n = 17.1303 \times 1.0637/\sqrt{33.5973}, \text{ or } \frac{3.1436}{3.1753}.$$

Thus allowing for differencing we may take out values of  $u$  from 2.8 to 9.8.

After interpolation we have the following values of  $I(u, 32.5973)$ :

\* *Tracts for Computers*, No. vii. Cambridge University Press.



ILLUSTRATIONS OF THE USE OF THE TABLES

<i>u</i>	<i>I</i> ( <i>u</i> , 32-5973)	<i>u</i>	<i>I</i> ( <i>u</i> , 32-5973)	<i>u</i>	<i>I</i> ( <i>u</i> , 32-5973)	<i>u</i>	<i>I</i> ( <i>u</i> , 32-5973)
2.8	.000,1070	4.6	.109,0462	6.4	.739,2317	8.2	.985,7342
3.0	.000,3619	4.8	.158,2932	6.6	.795,6526	8.4	.990,5566
3.2	.001,0572	5.0	.218,3479	6.8	.843,2106	8.6	.993,8463
3.4	.002,7172	5.2	.287,7283	7.0	.882,1513	8.8	.996,0503
3.6	.006,2395	5.4	.363,9777	7.2	.913,1753	9.0	.997,5017
3.8	.012,9677	5.6	.443,9874	7.4	.937,2611	9.2	.998,4418
4.0	.024,6647	5.8	.524,4106	7.6	.955,5085	9.4	.999,0413
4.2	.043,3440	6.0	.602,0769	7.8	.969,0161	9.6	.999,4178
4.4	.070,9652	6.2	.674,3283	8.0	.978,7975	9.8	.999,6509

From this table we have to interpolate for the barometric heights running by tenth inches, remembering that a low *u* corresponds to a high barometer. The frequency *above* the given barometric height corresponding to *u* will be simply 4748 × *I* (*u*, 32-5973).

Above	<i>u</i>	<i>I</i> ( <i>u</i> , 32-5973)	Above	<i>u</i>	<i>I</i> ( <i>u</i> , 32-5973)	Above	<i>u</i>	<i>I</i> ( <i>u</i> , 32-5973)
30.85	3.1752 3.1436	.00079	30.05	5.5635 5.5079	.40690	29.35	7.6531 7.5767	.95365
30.75	3.4738 3.4372	.00322	29.95	5.8620 5.8025	.52579	29.25	7.9516 7.8722	.97293
30.65	3.7724 3.7347	.01032	29.85	6.1605 6.0930	.63866	29.15	8.2501 8.1678	.98478
30.55	4.0709 4.0302	.02699	29.75	6.4590 6.3745	.73757	29.05	8.5486 8.4433	.99174
30.45	4.3694 4.3258	.05956	29.65	6.7575 6.6701	.81817	28.95	8.8472 8.7388	.99567
30.35	4.6679 4.6213	.11376	29.55	7.0560 6.9656	.87963	28.85	9.1457 9.0244	.99780
30.25	4.9664 4.9169	.19214	29.45	7.3546 7.2512	.92373	28.75	9.4442 9.3179	.99892
30.15	5.2649 5.2124	.29228						

Differencing these values and multiplying by 4748 we have the table of frequency below.

*Frequency of Barometric Heights at Cambridge.*

Height	Frequency		Height	Frequency		Height	Frequency	
	Observed	Calculated		Observed	Calculated		Observed	Calculated
Below 28.75	4	5.13	29.45—29.55	213	209.39	30.25—30.35	350.5	372.15
28.75—28.85	6.5	5.32	29.55—29.65	289	291.81	30.35—30.45	246	257.34
28.85—28.95	10.5	10.11	29.65—29.75	388	382.69	30.45—30.55	150	154.64
28.95—29.05	23	18.66	29.75—29.85	479.5	469.62	30.55—30.65	85.5	79.15
29.05—29.15	24	33.05	29.85—29.95	537.5	535.91	30.65—30.75	35	33.71
29.15—29.25	63.5	56.26	29.95—30.05	586	564.49	30.75—30.85	7.5	11.54
29.25—29.35	81	91.54	30.05—30.15	550	544.22	Above 30.85	3.0	3.75
29.35—29.45	127	142.06	30.15—30.25	488	475.46			
						Totals	4748	4748.00

Our purpose now is not to test these results as adequately describing the distribution, but merely to illustrate how the theoretical results may be computed, exactly as in the case of the normal curve.

(b) *Illustration of Method A*, applicable to Regions 1, 2, 3, 10, 11 and 19 of *Key*.

Find *I* (6.0, - .995).

The formula is: 
$$I(u, p) = \frac{\xi^{p+1}}{\Gamma(p+2)} \left( 1 - \frac{\xi(p+1)}{1!(p+2)} + \frac{\xi^2(p+1)}{2!(p+3)} - \frac{\xi^3(p+1)}{3!(p+4)} + \dots \right),$$

where:

$$\xi = 6\sqrt{.005} = 6 \times .0707,1067812 = .4242,6407.$$

Accordingly

	1	+ 1.0
$\xi = .4242,64069$	$\frac{\xi(p+1)}{1!(p+2)}$	- .0021,1077
$\xi^2 = .18$	$\frac{\xi^2(p+1)}{2!(p+3)}$	+ .0002,2444
$\xi^3 = .0763,67532$	$\frac{\xi^3(p+1)}{3!(p+4)}$	- .0000,2118
$\xi^4 = .0324$	$\frac{\xi^4(p+1)}{4!(p+5)}$	+ .0000,0169
$\xi^5 = .0137,46156$	$\frac{\xi^5(p+1)}{5!(p+6)}$	- .0000,0011
$\xi^6 = .005832$	$\frac{\xi^6(p+1)}{6!(p+7)}$	+ .0000,0001
		1.0002,2614 - .0021,3206

Thus we have:

$$\text{Series} = \cdot 9980,9408$$

$$(p + 1) \log \xi = \bar{1}\cdot 9981,38181$$

$$\log \Gamma(p + 2) = \bar{1}\cdot 9987,55500 \text{ from Legendre's tables}$$

$$\log \frac{\xi^{p+1}}{\Gamma(p + 2)} = \bar{1}\cdot 9993,82681$$

$$\frac{\xi^{p+1}}{\Gamma(p + 2)} = \cdot 9985,7958$$

$$I(u, p) = \cdot 9985,7958 \times \cdot 9980,9408$$

$$= \cdot 996,6764$$

correct to the last figure.

This case falls in Region 10 of the *Key*, but the method is the same for regions where Method *A* applies.

(b') *Use of Adjusted Table V.* While considering Method *A* in Region 2 of *Key* we can exhibit the use of the Adjusted Table V for  $\log I''(\xi, p)$ : see p. xiv above. Let us find  $I(\cdot 015, -\cdot 9845)$ , where  $\xi$  (not  $u$ ) =  $\cdot 015$ . Here  $\theta = \cdot 50$ ,  $\chi = \cdot 55$  and we must use formula (xxv). The differences we need are exhibited in the following scheme:

Function	Value	Product	Value	Coefficient
$z_{00}$	+ ·002,4284	+ ·002,4284,0	+1	1
$\Delta_u z_{00}$	- ·000,0427	- ·000,0213,5	+ ·50	$\theta$
$\Delta_p z_{00}$	+ ·002,3588	+ ·001,2973,4	+ ·55	$\chi$
$\Delta_{up}^2 z_{00}$	- ·000,0419	- ·000,0115,2	+ ·275	$\frac{\theta\chi}{2}$
$\Delta_u^2 z_{00}$	+ ·000,0002	- ·000,0000,3	- ·125	$-\frac{1}{2}\theta(1-\theta)$
$\Delta_p^2 z_{00}$	- ·000,0680	+ ·000,0084,9	- ·123,75	$-\frac{1}{2}\chi(1-\chi)$
$\Delta_{up}^3 z_{00}$	+ ·000,0010	+ ·000,0000,6	+ ·059,6125	$\frac{1}{6}\chi(1-\chi)(2-\chi)$
$\Delta_u^3 z_{00}$	+ ·000,0009	- ·000,0000,6	- ·061,875	$-\frac{1}{6}\theta\chi(1-\chi)$
$\Delta_p^3 z_{00}$	- ·000,0003	+ ·000,0000,2	- ·068,75	$-\frac{1}{6}\chi\theta(1-\theta)$
$\Delta_{up}^3 z_{00}$	+ ·000,0000	+ ·000,0000,0	+ ·062,5	$\frac{1}{6}\theta(1-\theta)(2-\theta)$

Sum of Products =  $\cdot 003,7013,5 = \log I''(\xi, p)$ . Add  $(p + 1) \log \xi = -\cdot 028,2705,9$ .

Therefore  $\log I(\xi, p) = \bar{1}\cdot 975,4307,6$ . Accordingly  $I(\xi, p) = \cdot 944,997,7$ .

If we now proceed to use Method *A* we have

Series: 1 = 1. 1.

$\xi(p + 2) = \cdot 0147,7105$	0147,7105
$\xi(p + 3) = \cdot 0074,4232$	1,0993
$\xi(p + 4) = \cdot 0049,7430$	55
$\xi(p + 5) = \cdot 0037,3552$	0
$S_1 = \text{Sum of series} =$	1·0148,8153

Hence

$$\left. \begin{aligned} \log S_1 &= \cdot 0064,1535 \\ -\xi \log e &= -\cdot 0065,1442 \\ + (p + 1) \log \xi &= -\cdot 0282,7059 \\ -\log \Gamma(1\cdot 0155) &= \cdot 0038,0039^* \end{aligned} \right\} = -\cdot 0245,6927 = \bar{1}\cdot 975,4307,3$$

$$\text{or } I(\xi, p) = \cdot 944,997,7.$$

The Adjusted Table V therefore gives the correct result to seven figures in the most difficult part of its area. It is accordingly adequate for seven-figure accuracy.

(c) *Illustration of Method B*, applicable to Regions 19 and 20 of *Key*.

Required  $I(14\cdot 177,4454, -\cdot 995)$ .

Let us take  $n = 2$  to throw forward into the table. The formula is

$$I(u, p) = \frac{\xi^{p+1} e^{-\xi}}{\Gamma(p + 2)} \left(1 + \frac{\xi}{p + 2}\right) + I(u_3, p + 2) \dots\dots\dots(\text{xlii}),$$

where

$$u_3 = u_1 \sqrt{\frac{p + 1}{p + 3}} = \cdot 707,9878.$$

We have therefore to find  $I(\cdot 707,9878, 1\cdot 005)$  which falls in Table III (Region 4 of the *Key*). We have accordingly to find first

$$I'(\cdot 707,9878, 1\cdot 005).$$

\* Either second differences, or first central differences must be used on Legendre's table for eight-figure interpolation accuracy.



We are close up to the entry  $u = .7$ ,  $p = 1.0$ , and thus a mid-point central difference formula is most appropriate, *i.e.* *Casus I* (xxii). We have  $\theta = -.079878$ ,  $\chi = -.05$ . The signs of these are clear at once if we write down all we need out of Table III, *i.e.*

	$z_{1,1}$	$z_{0,1}$	$z_{-1,1}$
	1.7765,5086	1.7405,9445	1.7051,6351
	+ 52024 - 43126	+ 52547 - 40076 - 61 + 78	+ 53009 - 37163
$p$	$z_{1,0}$	$z_{0,0}$	$z_{-1,0}$
↓	1.7633,1923	1.7256,8467	1.6885,8599
	+ 52976 - 42732 - 57 + 56	+ 53587 - 39779 - 60 + 58	+ 54138 - 36952 - 64 + 57
	$z_{1,-1}$	$z_{0,-1}$	$z_{-1,-1}$
	1.7496,6027	1.7103,7710	1.6716,3895
	+ 53804 - 42282	+ 54502 - 39425 - 60 + 42	+ 55139 - 36684
		→ $u$	

for clearly  $z_{0,1} - z_{0,-1}$  and  $z_{1,0} - z_{-1,0}$  are positive, but the function is decreasing with both  $u$  and  $p$  increasing. Hence both  $\theta$  and  $\chi$  are negative\*. We can now arrange the following scheme of work:

Function	Value	Product	Value	Coefficient
$z_{0,0}$	+ 1.7256,8467	+ 1.7256,8467	+ 1	+ 1
$z_{0,1} - z_{0,-1}$	+ .0302,1735	- .0007,5543	- .0250,0000	+ $\frac{1}{2}\chi$
$z_{1,0} - z_{-1,0}$	+ .0747,3324	- .0029,8477	- .0399,3900	+ $\frac{1}{2}\theta$
$z_{1,1} - z_{1,-1} - z_{-1,1} + z_{-1,-1}$	- .0066,3397	- .0000,0662	+ .0009,9847,5	+ $\frac{1}{2}\theta\chi$
$\delta^2 z_{0,0}$	- .0003,9779	- .0000,0050	+ .0012,4601	+ $\frac{1}{2}\chi^2(1 - \frac{1}{2}\theta^2)$
$\delta^2 z_{0,0}$	+ .0005,3587	+ .0000,0171	+ .0031,8626	+ $\frac{1}{2}\theta^2(1 - \frac{1}{2}\chi^2)$
$\delta^2 z_{1,0} + \delta^2 z_{-1,0} + \delta^2 z_{0,1} + \delta^2 z_{0,-1}$	+ .0002,7365	+ .0000,0000	+ .0000,0199	+ $\frac{1}{2}\theta^2\chi^2$
$\delta^2 z_{0,1} - \delta^2 z_{0,-1}$	- .0000,1955	+ .0000,0000	- .0000,7976	+ $\frac{1}{2}\theta^2\chi$
$\delta^2 z_{1,0} - \delta^2 z_{-1,0}$	- .0000,5780	+ .0000,0000	- .0000,4992	+ $\frac{1}{2}\chi^2\theta$
$\delta^2 z_{1,0} - \delta^2 z_{-1,0}$	- .0000,1162	- .0000,0008	+ .0066,1403	- $\frac{1}{2}\theta(1 - \theta^2)$
$\delta^2 z_{0,1} - \delta^2 z_{0,-1}$	- .0000,0651	- .0000,0003	+ .0041,5625	- $\frac{1}{2}\chi(1 - \chi^2)$
$\delta^2 z_{1,1} - \delta^2 z_{1,-1} - \delta^2 z_{-1,1} + \delta^2 z_{-1,-1}$	- .0000,0350	+ .0000,0000	- .0001,6535	- $\frac{1}{2}\theta\chi(1 - \theta^2)$
$\delta^2 z_{1,1} - \delta^2 z_{1,-1} - \delta^2 z_{-1,1} + \delta^2 z_{-1,-1}$	- .0000,0365	+ .0000,0000	- .0001,6600	- $\frac{1}{2}\theta\chi(1 - \chi^2)$
$\delta^4 z_{0,0}$	- .0000,0060	+ .0000,0000	- .0002,6416	- $\frac{1}{24}\theta^2(1 - \theta^2)$
$\delta^4 z_{0,0}$	+ .0000,0058	- .0000,0000	- .0001,0391	- $\frac{1}{24}\chi^2(1 - \chi^2)$

Summing Product column we have  $\log I'(.707,9878, 1.005) = 1.7219,3895$ .

We must add to this  $(p + 3) \log u_3 = 2.005 \log .707,9878 = 1.6993,0167$ .

This gives  $\log I(.707,9878, 1.005) = 1.4212,4062$ . Hence  $I(.707,9878, 1.005) = .2637,7924$ . We have to add to this

$$\frac{e^{-\xi} \xi^{p+1}}{\Gamma(p+2)} \left(1 + \frac{\xi}{p+2}\right).$$

Here  $\xi = 14.177,4454 \sqrt{.005} = 1.0024,9678$ , or  $1 + \xi/(p+2) = 1.9975,09234$ ,

$$\left. \begin{aligned} \log e^{-\xi} &= -.4353,7882 \\ (p+1) \log \xi &= .0000,0541 \\ \Gamma(p+2) &= -.0012,4450 \dagger \end{aligned} \right\} \text{or the logarithmic of the factor} = 1.5658,7109$$

of which the anti-log is .3680,1972.

Accordingly as  $1.9975,09234 \times .3680,1972 = .7351,2278$ ,

$$I(14.1774454, -.995) = \left\{ \begin{aligned} &.2637,7924 \\ &+ .7351,2278 \end{aligned} \right\} = .998,9020$$

which is out a unit in the last figure. This is by no means the easiest way to obtain the above value of  $I(u, p)$ , but it has been taken to illustrate the use of *Casus I* as well as Method B.

\* It is equally easy to write down the scheme of  $z$ 's with the first subscript negative on the left and positive on the right, or with the second subscript negative at the top and positive at the bottom, or with both these interchanges; the physics of the problem will indicate at once the sign to give to  $\theta$  and  $\chi$ . The reader can, if he chooses, take  $\theta$  negative when negative first subscripts are on the right, and  $\chi$  negative when negative second subscripts are at the bottom, but we prefer being guided by the sign of the fundamental terms.

† Taken from Legendre's Tables, *Tracts for Computers*, No. iv.

We can confirm the result by throwing only one stage into the table, i.e. put

$$I(u, p) = \frac{\xi^{p+1} e^{-\xi}}{\Gamma(p+2)} + I(u_2, p+1) \dots\dots\dots(\text{xliii}).$$

Here  $u_2 = 14.1774454 \sqrt{.005/1.005} = 1$ ; thus  $I(u_2, p+1) = I(1.0, .005)$  and  $u^{p+1} = 1$ . Accordingly  $\log I'(1.0, .005) = \log I(1.0, .005)$ , and to find the former we have only to interpolate into Table III by the mid-point central difference formula\*

$$z_\theta = z_0 + \frac{1}{2}\theta(z_1 - z_{-1}) + \frac{1}{2}\theta^2\delta^2z_0 - \frac{1}{12}\theta(1 - \theta^2)(\delta^2z_1 - \delta^2z_{-1}) - \frac{1}{24}\theta^2(1 - \theta^2)\delta^4z_0 + \frac{1}{240}\theta(1 - \theta^2)(4 - \theta^2)(\delta^4z_1 - \delta^4z_{-1}) \dots\dots\dots(\text{xliv}).$$

Here  $\theta = .05$  and we have:

Function	Value	Product	Value	Coefficient
$z_0$	+ 1.8007,9992	+ 1.8007,9992	+ 1	1
$z_1 - z_{-1}$	- .0340,5871	- .0008,5147	+ .0250,0000	$\frac{1}{2}\theta$
$\delta^2z_0$	- .0002,4028	- .0000,0030	+ .0012,5000	$\frac{1}{2}\theta^2$
$\delta^2z_1 - \delta^2z_{-1}$	- .0000,6305	+ .0000,0026	- .0041,5625	$-\frac{1}{12}\theta(1 - \theta^2)$
$\delta^4z_0$	+ .0000,1153	- .0000,0000	- .0002,0781	$-\frac{1}{24}\theta^2(1 - \theta^2)$
$\delta^4z_1 - \delta^4z_{-1}$	+ .0000,0881	+ .0000,0001	+ .0008,3073	$\frac{1}{240}\theta(1 - \theta^2)(4 - \theta^2)$

The scheme of values and differences being:

$z_{-1}$	$z_0$	$z_1$
1.8177,0913	1.8007,9992	1.7836,5042
- 20298	- 24028	- 26603
+ 1761	+ 1153	+ 780

Sums of products = 1.7999,4842, or  $I(1.0, .005) = .6308,8239$ , to which we must add  $e^{-\xi} \xi^{p+1} / \Gamma(p+2)$ , or as before .3680,1972. Thus finally  $I(14.1774454, .995) = .998,9021$ . This is correct to the last figure.

We did not proceed by this, the shorter, method in this case, because it would not have been fair to the reader to put an exceptional case, which only required uni-variate interpolation; we only selected  $u_2 = 1$  for ease in checking.

(d) General Interpolation Illustrations, Casus I, II and III.

We now propose to illustrate the general methods of interpolation which hold for the greater portion of the present tables. In order to do this by way of comparison we will find  $I(4.25, 7.25)$  by mid-point, mid-panel and mid-line processes. We have chosen a neutral point, where the three regions of appropriateness meet and ought accordingly to get the same answer to seven decimal places for all three. We rewrite in each case the needful data and the scheme so that each may serve without reference to the others as an illustration of its type.

Casus I. Mid-point Formula.

Data extracted from Table I, pp. 27-28.

$\longrightarrow p$	$p = 6.8$	$p = 7.0$	$p = 7.2$
	$z_{-1, -1}$	$z_{-1, 0}$	$z_{-1, 1}$
$u = 3.9$	.865,1402 - 18207 - 1842 + 83 -	.858,7905 - 18658 - 1835 + 101 -	.852,2574 - 19088 - 1824 + 120 -
$u = 4.0$	$z_{0, -1}$ .881,6070 - 17039 - 1746 + 47 -	$z_{0, 0}$ .875,9367 - 17520 - 1747 + 63 -	$z_{0, 1}$ .870,0917 - 17985 - 1745 + 80 -
$u = 4.1$	$z_{1, -1}$ .896,3699 - 15824 - 1635 + 18 -	$z_{1, 0}$ .891,3309 - 16319 - 1643 + 30 -	$z_{1, 1}$ .886,1275 - 16802 - 1649 + 43 -

The fourth differences of  $I(u, p)$  for  $p$  are negligible throughout. The 'corner' values of  $\delta^4_u$ , i.e. 83, 120, 18 and 43, are not needed and might be omitted.

\* *Tracts for Computers*, No. II, p. 20.



As we have chosen our axes both  $\theta$  and  $\chi$  are positive and we have the following scheme:

Function	Value	Product	Value	Coefficient
$z_{0,0}$	+ .875,9367	+ .875,9367	+ 1	+ 1
$z_{0,1} - z_{0,-1}$	- .011,5153	- .0014,39413	+ .125	+ $\frac{1}{2}\chi$
$z_{1,0} - z_{-1,0}$	+ .032,5404	+ .0040,67550	+ .125	+ $\frac{1}{2}\theta$
$z_{1,1} - z_{1,-1} - z_{-1,1} + z_{-1,-1}$	+ .002,6404	+ .0000,41256	+ .015,625	+ $\frac{1}{4}\theta\chi$
$\delta^2 z_{0,0}$	- .0001,747	- .0000,05289	+ .0302,7344	+ $\frac{1}{2}\chi^2(1 - \frac{1}{2}\theta^2)$
$\delta^2 z_{1,0} + \delta^2 z_{-1,0} + \delta^2 z_{0,1} + \delta^2 z_{0,-1}$	- .0017,520	- .0000,53039	+ .0302,7344	+ $\frac{1}{2}\theta^2(1 - \frac{1}{2}\chi^2)$
$\delta^2 z_{0,1} - \delta^2 z_{0,-1}$	- .0000,946	- .0000,00370	+ .0039,0625	+ $\frac{1}{4}\theta^2\chi$
$\delta^2 z_{1,0} - \delta^2 z_{-1,0}$	+ .0000,192	+ .0000,00075	+ .0039,0625	+ $\frac{1}{4}\chi^2\theta$
$\delta^2 z_{1,1} - \delta^2 z_{-1,1}$	+ .0002,339	- .0000,04568	- .0195,3125	- $\frac{1}{12}\theta(1 - \theta^2)$
$\delta^2 z_{0,1} - \delta^2 z_{0,-1}$	+ .0000,001	- .0000,00002	- .0195,3125	- $\frac{1}{12}\chi(1 - \chi^2)$
$\delta^2 z_{1,1} - \delta^2 z_{-1,1} - \delta^2 z_{-1,1} + \delta^2 z_{-1,-1}$	- .0000,097	+ .0000,00024	- .0024,4141	- $\frac{1}{24}\theta\chi(1 - \theta^2)$
$\delta^2 z_{1,1} - \delta^2 z_{-1,1} - \delta^2 z_{-1,1} + \delta^2 z_{-1,-1}$	- .0000,032	+ .0000,00008	- .0024,4141	- $\frac{1}{24}\chi\theta\chi(1 - \chi^2)$
$\delta^4 z_{0,0}$	+ .0000,063	- .0000,00015	- .0024,4141	- $\frac{1}{24}\theta^2(1 - \theta^2)$
$\delta^4 z_{0,0}$	.0000,000	.0000,00000	- .0024,4141	- $\frac{1}{24}\chi^2(1 - \chi^2)$

Sum of products\* = .878,5410 to seven decimals and this is the value of  $I$  (4.25, 7.25).

Casus II. Mid-panel Formula.

This has the appearance of greater simplicity both in extracted data and in the scheme, and the computer may prefer to work with it except in cases where the extreme accuracy possible from the tables is desired.

Data extracted from Table I, pp. 27-28†.

→ $p$	$p = 7.0$	$p = 7.2$
	$z_{0,0}$	$z_{0,1}$
$u = 4.0$	.875,9367 - 17520 - 1747 + 63     —     {+ 16}	.870,0917 - 17985 - 1745 + 80     —     {+ 17}
$u = 4.1$	$z_{1,0}$ .891,3309 - 16319 - 1643 + 30     —     {+ 12}	$z_{1,1}$ .886,1275 - 16802 - 1649 + 43     —     {+ 10}

This brevity in extraction is, however, somewhat specious for we have to find in addition to the above differences:

$$\delta^2\delta^2z_{0,0}, \delta^2\delta^2z_{0,1}, \delta^2\delta^2z_{1,0}, \delta^2\delta^2z_{1,1},$$

where  $\delta^2\delta^2z_{0,0} = \delta^2z_{0,1} + \delta^2z_{0,-1} - 2\delta^2z_{0,0}, \delta^2\delta^2z_{1,0} = \delta^2z_{1,1} + \delta^2z_{1,-1} - 2\delta^2z_{1,0},$   
 $\delta^2\delta^2z_{0,1} = \delta^2z_{1,1} + \delta^2z_{-1,1} - 2\delta^2z_{0,1}, \delta^2\delta^2z_{1,1} = \delta^2z_{1,0} + \delta^2z_{1,2} - 2\delta^2z_{1,1}.$

We accordingly require to extract from the tables beyond the above data:

$$(u = 4.0, p = 6.8) \delta^2z_{0,-1} = - 17039; (u = 3.9, p = 7.2) \delta^2z_{-1,1} = - 1824;$$

$$(u = 4.1, p = 6.8) \delta^2z_{1,-1} = - 15824; (u = 4.1, p = 7.4) \delta^2z_{1,2} = - 17275.$$

This may occasion the computer some liability to error, unless he has originally put down a wider plan of  $z$ 's from the tables to indicate exactly what he needs; without this one may easily confuse the  $z$ 's. We obtain  $\delta^2\delta^2z_{0,0} = + 16, \delta^2\delta^2z_{0,1} = + 17,$  and  $\delta^2\delta^2z_{1,0} = + 12, \delta^2\delta^2z_{1,1} = + 10.$

Here we must warn the reader that each cross-difference gives two methods of determination and these will not give precisely the same values owing to raising of the seventh figure, but the final accuracy owing to the multiplying coefficients is the same. Here we might have taken

$$\delta^2\delta^2z_{0,0} = \delta^2z_{1,0} + \delta^2z_{-1,0} - 2\delta^2z_{0,0} = + 16, \delta^2\delta^2z_{1,0} = \delta^2z_{2,0} + \delta^2z_{0,0} - 2\delta^2z_{1,0} = + 10,$$

$$\delta^2\delta^2z_{0,1} = \delta^2z_{0,0} + \delta^2z_{0,2} - 2\delta^2z_{0,1} = + 18, \delta^2\delta^2z_{1,1} = \delta^2z_{0,1} + \delta^2z_{2,1} - 2\delta^2z_{1,1} = + 13.$$

It is immaterial which system or combination of systems we adopt. There are 24 coefficients to be dealt with in the general case and it is only because we have chosen the special case of  $\theta = .25, \phi = .75, \chi = .25, \psi = .75$  that certain coefficients become equal; we have maintained the complete system for the purpose of illustration in our scheme.

\* The trained computer would naturally simplify here, as in many other cases, the number of products written down. Our purpose is to exhibit all contributions.

† Quantities in curled brackets are the cross-differences.

Function	Value	Product	Value	Coefficient
$z_{0,0}$	+ .875,9367	+ .4927,14394	+ .5625	+ $\phi\psi$
$z_{0,1}$	+ .870,0917	+ .1631,42194	+ .1875	+ $\phi\chi$
$z_{1,0}$	+ .891,3309	+ .1671,24544	+ .1875	+ $\theta\psi$
$z_{1,1}$	+ .886,1275	+ .0553,82969	+ .0625	+ $\theta\chi$
$\delta^2 z_{0,0}$	- .001,7520	+ .0000,71859	- .0410,15625	- $\frac{1}{6}\theta\phi(1+\phi)\psi$
$\delta^2 z_{0,1}$	- .001,7985	+ .0000,24589	- .0136,71875	- $\frac{1}{6}\theta\phi(1+\phi)\chi$
$\delta^2 z_{1,0}$	- .001,6319	+ .0000,47810	- .0292,96875	- $\frac{1}{6}\theta\phi(1+\theta)\psi$
$\delta^2 z_{1,1}$	- .001,6802	+ .0000,16408	- .0097,65625	- $\frac{1}{6}\theta\phi(1+\theta)\chi$
$\delta'^2 z_{0,0}$	- .000,1747	+ .0000,07165	- .0410,15625	- $\frac{1}{6}\chi\psi(1+\psi)\phi$
$\delta'^2 z_{1,0}$	- .000,1643	+ .0000,02246	- .0136,71875	- $\frac{1}{6}\chi\psi(1+\psi)\theta$
$\delta'^2 z_{0,1}$	- .000,1745	+ .0000,05112	- .0292,96875	- $\frac{1}{6}\chi\psi(1+\chi)\phi$
$\delta'^2 z_{1,1}$	- .000,1649	+ .0000,01610	- .0097,65625	- $\frac{1}{6}\chi\psi(1+\chi)\theta$
$\delta^4 z_{0,0}$	+ .000,0063	+ .0000,00044	+ .0070,49561	+ $\frac{1}{120}\phi(1-\phi^2)(4-\phi^2)\psi$
$\delta^4 z_{0,1}$	+ .000,0080	+ .0000,00019	+ .0023,49854	+ $\frac{1}{120}\phi(1-\phi^2)(4-\phi^2)\chi$
$\delta^4 z_{1,0}$	+ .000,0030	+ .0000,00017	+ .0057,67822	+ $\frac{1}{120}\theta(1-\theta^2)(4-\theta^2)\psi$
$\delta^4 z_{1,1}$	+ .000,0043	+ .0000,00008	+ .0019,22607	+ $\frac{1}{120}\theta(1-\theta^2)(4-\theta^2)\chi$
$\delta^2\delta'^2 z_{0,0}$	+ .000,0016	+ .0000,00005	+ .0029,90722	+ $\frac{1}{36}\theta\phi\chi\psi(1+\phi)(1+\psi)$
$\delta^2\delta'^2 z_{0,1}$	+ .000,0017	+ .0000,00004	+ .0021,36230	+ $\frac{1}{36}\theta\phi\chi\psi(1+\phi)(1+\chi)$
$\delta^2\delta'^2 z_{1,0}$	+ .000,0012	+ .0000,00003	+ .0021,36230	+ $\frac{1}{36}\theta\phi\chi\psi(1+\theta)(1+\psi)$
$\delta^2\delta'^2 z_{1,1}$	+ .000,0010	+ .0000,00002	+ .0015,25879	+ $\frac{1}{36}\theta\phi\chi\psi(1+\theta)(1+\chi)$
$\delta'^4 z_{0,0}$	+ .000,0000	+ .0000,00000	+ .0070,49561	+ $\frac{1}{120}\psi(1-\psi^2)(4-\psi^2)\phi$
$\delta'^4 z_{1,0}$	+ .000,0000	+ .0000,00000	+ .0023,49854	+ $\frac{1}{120}\psi(1-\psi^2)(4-\psi^2)\theta$
$\delta'^4 z_{0,1}$	+ .000,0000	+ .0000,00000	+ .0057,67822	+ $\frac{1}{120}\chi(1-\chi^2)(4-\chi^2)\phi$
$\delta'^4 z_{1,1}$	+ .000,0000	+ .0000,00000	+ .0019,22607	+ $\frac{1}{120}\chi(1-\chi^2)(4-\chi^2)\theta$

The sum of the products to seven figures is .878,5410, as before. The values of the coefficients can be written down promptly from Thompson's Tables of the Everett coefficients\*.

As a matter of fact nothing like this amount of work is put down on paper. The skilful computer works with a continuous process on the machine. He recognises straight off when he has found the cross-differences that the last eight products are unnecessary for this case. The sum of the products is obtained by a continuous machining and so the products never appear on the paper. The first column of function values is not copied out of the tables, but transferred from the tables directly to the machine. The only coefficients which it is needful to compute are:  $\phi\psi, \phi\chi, \theta\psi, \theta\chi$ ,

$$\frac{1}{6}\theta\phi(1+\phi) = \frac{\phi(1-\phi^2)}{3!}, \quad \frac{1}{6}\theta\phi(1+\theta) = \frac{\theta(1-\theta^2)}{3!},$$

$$\frac{1}{6}\chi\psi(1+\psi) = \frac{\psi(1-\psi^2)}{3!}, \quad \frac{1}{6}\chi\psi(1+\chi) = \frac{\chi(1-\chi^2)}{3!},$$

$$\frac{1}{120}\theta\phi(1+\theta)(1+\phi)(2+\phi) = \frac{\phi(1-\phi^2)(4-\phi^2)}{5!} \text{ and three similar functions,}$$

$$\frac{1}{36}\theta\phi\chi\psi(1+\phi)(1+\psi) = \frac{\phi(1-\phi^2)}{3!} \times \frac{\psi(1-\psi^2)}{3!} \text{ and three similar functions.}$$

All these coefficients can be taken at once from Thompson's Tables, and the last six are unnecessary for this particular case. Each line of (xxiii) is worked out continuously and the total only placed on paper. The following scheme represents all that a facile computer puts on paper as a check for the above result.

Mid-panel I (4.25, 7.25)  $\delta^2\delta'^2 z_{0,0} = + 16, \quad \theta = .25, \quad \phi\psi = .5625,$   
 $\delta^2\delta'^2 z_{0,1} = + 17, \quad \phi = .75, \quad \phi\chi = .1875,$   
 $\delta^2\delta'^2 z_{1,0} = + 10, \quad \chi = .25, \quad \theta\psi = .1875,$   
 $\delta^2\delta'^2 z_{1,1} = + 13, \quad \psi = .75, \quad \theta\chi = .0625.$

	.873641	000		$\frac{1}{6}\theta\phi = \frac{1}{6}\chi\psi = .03125$
- 30863   4375	} = - 51413   1250	→ 1606	660	$\frac{1}{120}\theta\phi(1+\theta)(1+\phi) = .0034,17968$
- 20549   6875	} = - 5163   0000	→ 161	344	$\frac{1}{36}\theta\phi\chi\psi = .0009,7656$
- 3011   7500	} = - 5163   0000	→ 161	344	$(1+\phi)(1+\psi) = 3.0625$
- 2151   2500	} = - 5163   0000	→ 161	344	$(1+\theta)(1+\chi) = 1.5625$
+ 184   9375	} = + 259   7500	→	888	$(1+\phi)(1+\chi) = (1+\theta)(1+\psi) = 2.1875$
+ 74   8125	} = + 259   7500	→	888	$(1+\phi)(1+\chi) = (1+\theta)(1+\psi) = 2.1875$
			127	
			.878,5410	

\* *Tracts for Computers*, No. v. Cambridge University Press. For example,  $\frac{1}{36}\theta\phi\chi\psi(1+\theta)(1+\chi) = \epsilon_2(\theta) \times \epsilon_2(\chi)$ .



Casus III. Mid-side Formula.

	→ $p$	$p = 6.8$	$p = 7.0$	$p = 7.2$
$u$	↓	$z_{0,-1}$ ·881,6070 - 17039 - 1746 + 47 —	$z_{0,0}$ ·875,9367 - 17520 - 1747 + 63 — {+ 16}	$z_{0,1}$ ·870,0917 - 17985 - 1745 + 80 —
	↓	$z_{1,-1}$ ·896,3699 - 15824 - 1635 + 18 —	$z_{1,0}$ ·891,3309 - 16319 - 1643 + 30 — {+ 12}	$z_{1,1}$ ·886,1275 - 16802 - 1649 + 43 —
	↓	$u = 4.0$		
	↓	$u = 4.1$		

The above contains all the data that need to be extracted from Table I. The values of  $\delta^2\delta'^2z_{0,0}$ ,  $\delta^2\delta'^2z_{1,0}$  in curled brackets can be found at once from the above material, but it is, perhaps, better to use (xxiv) *bis* rather than (xxiv). The requisite scheme is given below:

Function	Value	Product	Value	Coefficient
$z_{0,0}$	+ ·875,9367	+ ·6569,52525	+ ·75	+ $\phi$
$z_{1,0}$	+ ·891,3309	+ ·2228,32725	+ ·25	+ $\theta$
$z_{0,1} - z_{0,-1}$	- ·011,5153	- ·0010,79559	+ ·09375	+ $\frac{1}{2}\chi\phi$
$z_{1,1} - z_{1,-1}$	- ·010,2424	- ·0003,20075	+ ·03125	+ $\frac{1}{2}\chi\theta$
$\delta'^2z_{0,0}$	- ·000,1747	- ·0000,04095	+ ·023,4375	+ $\frac{1}{2}\chi^2\phi$
$\delta'^2z_{1,0}$	- ·000,1643	- ·0000,01284	+ ·007,8125	+ $\frac{1}{2}\chi^2\theta$
$\delta^2z_{0,0}$	- ·001,7520	+ ·0000,89824	- ·051,26953	- $(1 - \chi^2)\{\phi(1 - \phi^2)\}/3!$
$\delta^2z_{1,0}$	- ·001,6319	+ ·0000,59762	- ·036,62109	- $(1 - \chi^2)\{\theta(1 - \theta^2)\}/3!$
$\delta^2z_{0,1}$	- ·001,7985	+ ·0000,15368	- ·008,54492	- $\frac{1}{2}\chi(1 + \chi)\{\phi(1 - \phi^2)\}/3!$
$\delta^2z_{0,-1}$	- ·001,7039	- ·0000,08736	+ ·005,12695	+ $\frac{1}{2}\chi(1 - \chi)\{\phi(1 - \phi^2)\}/3!$
$\delta^2z_{1,1}$	- ·001,6802	+ ·0000,10255	- ·006,10352	- $\frac{1}{2}\chi(1 + \chi)\{\theta(1 - \theta^2)\}/3!$
$\delta^2z_{1,-1}$	- ·001,5824	- ·0000,05795	+ ·003,66211	+ $\frac{1}{2}\chi(1 - \chi)\{\theta(1 - \theta^2)\}/3!$
$\delta'^2z_{0,1} - \delta'^2z_{0,-1}$	+ ·000,0001	- ·0000,00001	- ·014,64844	- $\frac{1}{2}\phi\{\chi(1 - \chi^2)\}/3!$
$\delta'^2z_{1,1} - \delta'^2z_{1,-1}$	- ·000,0014	+ ·0000,00007	- ·004,88281	- $\frac{1}{2}\theta\{\chi(1 - \chi^2)\}/3!$
$\delta'^4z_{0,0}$	- ·000,0000	+ ·0000,00000	- ·001,83105	- $\frac{1}{4}\chi\phi\{\chi(1 - \chi^2)\}/3!$
$\delta'^4z_{1,0}$	- ·000,0000	+ ·0000,00000	- ·000,60938	- $\frac{1}{4}\chi\theta\{\chi(1 - \chi^2)\}/3!$
$\delta^4z_{0,0}$	+ ·000,0063	+ ·0000,00059	+ ·009,39941	+ $\frac{1}{12}\phi(1 - \phi^2)(4 - \phi^2)$
$\delta^4z_{1,0}$	+ ·000,0030	+ ·0000,00023	+ ·007,69043	+ $\frac{1}{12}\theta(1 - \theta^2)(4 - \theta^2)$

The sum of the products is to seven figures ·878,5410, which is accordingly  $I(4.25, 7.25)$ .

Casus I, Casus II and Casus III give precisely the same result as they should do since fifth order differences are negligible. As in the instance of Casus II the labour of Casus III can be much curtailed by continuous processes on the machine. The occasional user of the tables is, however, recommended to use a full scheme. The reader will observe that linear differences would not give even four-figure accuracy.

(e) Methods applicable to Region 4 of Key.

We may take as illustration here  $I(1.21, - .36)$ . We first try Table III directly. Here  $\theta = .2, \chi = .1$  and a mid-point formula is to be used. The following is the scheme:

Function	Value	Product	Value	Coefficient
$z_{0,0}$	+ 1.8368,7736	+ 1.8368,7736	+ 1.0	1
$z_{0,1} - z_{0,-1}$	- ·0219,0781	- ·00109,53905	+ ·05	$\frac{1}{2}\chi$
$z_{1,0} - z_{-1,0}$	+ ·0203,3952	+ ·00203,39520	+ ·1	$\frac{1}{2}\theta$
$z_{1,1} - z_{1,-1} - z_{-1,1} + z_{-1,-1}$	+ ·0037,7065	+ ·00001,88533	+ ·005	$\frac{1}{4}\chi\theta$
$\delta'^2z_{0,0}$	+ ·0002,1631	+ ·00000,10599	+ ·0049	$\frac{1}{2}\chi^2(1 - \frac{1}{2}\theta^2)$
$\delta'^2z_{0,1} + \delta'^2z_{-1,0} + \delta'^2z_{0,1} + \delta'^2z_{0,-1}$	+ ·0000,0120	+ ·00000,00239	+ ·0199	$\frac{1}{2}\theta^2(1 - \frac{1}{2}\chi^2)$
$\delta'^2z_{0,1} - \delta'^2z_{0,-1}$	+ ·0008,6482	+ ·00000,00432	+ ·00005	$\frac{1}{4}\theta^2\chi^2$
$\delta'^2z_{0,1} - \delta'^2z_{-1,0}$	+ ·0000,0317	+ ·00000,00032	+ ·001	$\frac{1}{4}\theta^2\chi$
$\delta'^2z_{1,0} - \delta'^2z_{-1,0}$	- ·0000,3769	- ·00000,00188	+ ·0005	$\frac{1}{4}\theta\chi$
$\delta'^2z_{1,0} - \delta'^2z_{-1,0}$	+ ·0000,2780	- ·00000,00448	- ·016	$\frac{1}{12}\theta(1 - \theta^2)$
$\delta'^2z_{0,1} - \delta'^2z_{0,-1}$	- ·0000,0745	+ ·00000,00615	- ·00825	$\frac{1}{12}\chi(1 - \chi^2)$
$\delta'^2z_{1,1} - \delta'^2z_{1,-1} - \delta'^2z_{-1,1} + \delta'^2z_{-1,-1}$	- ·0000,0415	+ ·00000,00033	- ·0008	$\frac{2}{3}\theta\chi(1 - \theta^2)$
$\delta'^2z_{1,1} - \delta'^2z_{1,-1} - \delta'^2z_{-1,1} + \delta'^2z_{-1,-1}$	+ ·0000,0066	- ·00000,00005	- ·000825	$\frac{2}{3}\chi\theta\chi(1 - \chi^2)$
$\delta^4z_{0,0}$	+ ·0000,0325	- ·00000,00052	- ·0016	$\frac{1}{24}\theta^2(1 - \theta^2)$
$\delta^4z_{0,0}$	- ·0000,0006	+ ·00000,00000	- ·0004125	$\frac{1}{24}\chi^2(1 - \chi^2)$

Sum of products is 1.83783,54954. Adding  $(p + 1) \log u = .05298,2637$ , we have for  $\log I(u, p)$  the value ·8908,18132 of which the anti-logarithm is ·777,7107. The correct value of eight figures is ·777,71079. Thus Table III directly applied gives an error of unity in the seventh figure.

If, however, we throw the value forward and then use Table III we get the value correct to seven figures. We term this *Method C*, we have

$$I(1.21, -.36) = \frac{\xi^{p+1}e^{-\xi}}{\Gamma(p+2)} \left( 1 + \frac{\xi}{p+2} + \frac{\xi^2}{(p+2)(p+3)} \right) + I(.507, 3699, 2.64),$$

$$1 + \frac{\xi}{p+2} + \frac{\xi^2}{(p+2)(p+3)} = 1.80666, 66667, \quad \frac{\xi^{p+1}e^{-\xi}}{\Gamma(p+2)} = .4139, 77219.$$

Or, 
$$\frac{\xi^{p+1}e^{-\xi}}{\Gamma(p+2)} \left( 1 + \frac{\xi}{p+2} + \frac{\xi^2}{(p+2)(p+3)} \right) = .7479, 1884.$$

Using the process just illustrated to find  $I(.507, 3699, 2.64)$ , we have for its value\*  $+ .0297, 91993$ .

Thus  $I(1.21, -.36) = .777, 71083$  which is correct to the seventh figure. Thus if we desire in Region 4 of *Key* to be correct to the seventh place it is desirable to throw forward and use Table III, rather than apply it directly. That is, we must use *Method C*.

(f) *Calculation of  $I(u, p)$  beyond the Tabulated Values.*

We now pass to values of our function beyond the limit of the tables, *i.e.*  $p > 50$ .

In the region from  $p = 50$  to  $p = 70$  it will generally be found safest to throw back into the table by formulae (xxix).

*Illustration of Method D* in the Region 26 of the *Key*. To find  $I(9.31, 64.61)$ .

Here  $\xi = u\sqrt{p+1} = 75.411$ . We shall need 14 terms to throw back into the table for

$$p - n - 1 = 64.61 - 15 = 49.61, \quad u_{-n} = 9.31 \times \sqrt{64.61/50.61} = 10.519, 1678.$$

Hence we need to determine from the tables  $I(10.5191678, 49.61)$ , the values are  $\theta = .191678$ ,  $\chi = .05$  and thus the mid-point formula is the appropriate one for interpolation. It gives

$$I(10.5191678, 49.61) = .998, 7426.$$

It did not seem needful to illustrate further the process, which has already been indicated on p. xxiii. It therefore remains only to consider the series calculation.

$p$	$p/\xi$	Series
—	—	1.0
64.61	.85677, 15585	.85677, 15585
63.61	.84351, 08936	.72269, 61429
62.61	.83025, 02287	.60001, 86379
61.61	.81698, 95639	.49020, 89653
60.61	.80372, 88990	.39399, 51120
59.61	.79046, 82341	.31144, 06204
58.61	.77720, 75692	.24205, 40075
57.61	.76394, 69043	.18491, 64097
56.61	.75068, 62395	.13881, 142042
55.61	.73742, 55745	.10236, 51443
54.61	.72416, 49096	.07412, 92455
53.61	.71090, 42447	.05269, 87953
52.61	.69764, 35798	.03676, 49762
		5.20687, 38197

This is best arranged as in the table above. The first column contains the reducing values of the numerators of  $(p-s)/\xi$  from  $s = 0$  to 14. These are multiplied by the reciprocal of  $\xi$  in the second column, the value of  $1/\xi$  being maintained on the machine, and the first multiplier reduced by successive units without clearing the machine; the third column gives the results of multiplying the successive values in the third column by the number one line lower in the second column. Thus .24205, 40075 is the product of .31144, 06204 and .77720, 75692. The final column summed on the machine is the sum of the series.

We have next to calculate the factor outside the series.  $\log \Gamma(p+1)$  was obtained by interpolation into Degen's Tables of Factorials:

$$\left. \begin{aligned} \log e^{-\xi} &= - 32.75058, 11748, \\ \log \xi^p &= + 121.30105, 59605, \\ -\log \Gamma(p+1) &= - 90.20849, 97418, \end{aligned} \right\} \log \frac{e^{-\xi} \xi^p}{\Gamma(p+1)} = - 1.65802, 49561,$$

$$\log 5.20687, 38197 = .71657, 70534. \quad \text{Hence series and factor} = .1144, 3321.$$

\* If Table I be used to find  $I(.507, 3699, 2.64)$  we obtain .0297, 92056, which gives  $I(1.21, -.36) = .777, 7109$ , one out in the seventh place.



Subtracting this from the reduced  $I(u_{-n}, p - n - 1)$  we have  $I(9.31, 64.61) = .884,3094$ .

This method is more rapid than 'throwing forward' into a part of the table where  $I(u_{n+1}, p + n)$  is zero to the degree of accuracy required (Method  $D'$ ). Some computers may prefer this latter method as more homogeneous in that it avoids the interpolation.

*Illustration of Method  $D'$ . 'Throwing Forward.'*

Suppose we require  $I(5.0, 63)$ . Here  $\xi = \sqrt{p + 1}$ ,  $u = 40$ , and we use (xxviii).

$s = 2$ to 30	$\xi/(p + s)$	Products
—	—	1.0
40/65	.61538,46153	.6153,84615
40/66	.60606,06060	.3729,60373
40/67	.59701,49254	.2226,62909
40/68	.58823,52941	.1309,78182
40/69	.57971,01449	759,29381
40/70	.57142,85714	433,88218
40/71	.56338,02817	244,44066
40/72	.55555,55556	135,80037
40/73	.54794,52055	74,41116
40/74	.54054,05405	40,22225
40/75	.53333,33333	21,45187
40/76	.52631,57895	11,29046
40/77	.51948,05195	5,86517
40/78	.51282,05128	3,00778
40/79	.50632,91139	1,52293
40/80	.50000,00000	76146
40/81	.49382,71605	37603
40/82	.48780,488..	18343
40/83	.48192,771..	8840
40/84	.47619,048..	4210
40/85	.47058,824..	1981
40/86	.46511,628..	921
40/87	.45977,012..	424
40/88	.45454,5....	193
40/89	.44943,8....	87
40/90	.44444,4....	38
40/91	.43956,0....	17
40/92	.43478,.....	7
40/93	.43011,.....	3
40/94	.42553,.....	1
		<u>2.5152,53757</u>

To this we must add

$$\log e^{-\xi} = - 17.37177,92761,$$

$$(p + 1) \log \xi = + 102.53183,94432,$$

$$- \Gamma(p + 2) = - 89.10341,68973,$$

$$\log \frac{e^{-\xi} \xi^{p+1}}{\Gamma(p + 2)} = - 3.94335,67302.$$

But

$$\log 2.5152,53757 = .40058,1806.$$

Accordingly

$$\log I(5.0, 63) = \bar{4}.45722,5076,$$

$$\text{or } I(5.0, 63) = .000,2866.$$

It frequently happens that the value of  $I(u, p)$  for a large  $p$  is zero to the number of figures required, and it would be very wasteful of time to compute the series to many terms to ascertain this.

We can proceed as follows:—The series is clearly less than

$$1 + \frac{\xi}{p + 2} + \left(\frac{\xi}{p + 2}\right)^2 + \left(\frac{\xi}{p + 3}\right)^3 + \dots, \text{ i.e. less than } 1 / \left(1 - \frac{\xi}{p + 2}\right) \text{ or } \frac{p + 2}{p + 2 - \xi}.$$

Hence 
$$I(\xi, p) \text{ is } < \frac{p + 2}{p + 2 - \xi} \frac{e^{-\xi} \xi^{p+1}}{\Gamma(p + 2)} \dots\dots\dots(xlv).$$

For example, it is not obvious that if  $\xi = 25.272$  and  $p = 64.61$ , that  $I(\xi, p)$  will be zero; but it is rapidly ascertained to be so by evaluating the right-hand side of the above inequality. The Method  $D'$  of 'throwing forward' to a zero region of the function will only be successful if  $\xi$  is relatively small, otherwise the number of terms becomes very serious.

(g) *On Methods of finding a value in the Neighbourhood of the Mode, but outside the Limits of the Tables. Methods E and E'.*

Method  $E$  has been discussed on p. xvi. We will illustrate it by two or three examples here\*, as it is of some importance. Consider

$$y = x^{48}e^{-x}/\Gamma(49).$$

The distance from mode to median  $d$  is given by (xx) and is  $d = .6670,7279$ .

The computed values of the ordinates, using Degen's tables to find  $\Gamma(49)$ , are

$$x_1 = 46: y_1 = .0550,70750, \quad x_3 = 49: y_3 = .0568,94916,$$

$$x_2 = 48: y_2 = .0574,82480, \quad x_4 = 51: y_4 = .0525,34077.$$

\* The values of  $p$  are taken within our tables solely to test the accuracy of the results obtained. Actually  $p$  will be outside our tables and the errors less than those here recorded.

Hence (xxxii) becomes\*

$$\int_0^{48+d'} \frac{x^{48} e^{-x}}{\Gamma(49)} dx = 0.5 + .0574,82480 (d' - d) - .0001,993954 (d'^3 - d^3) + .0000,01968125 (d'^4 - d^4) + .0000,0054992 (d'^5 - d^5).$$

Let us take  $d' = 3.1$ . We find the integral = .634,3084. The correct value is .634,3110 or the answer is correct to 3 in the sixth figure.

Put  $d' = 1.8$  and we find  $\int_0^{46.2} \frac{x^{48} e^{-x}}{\Gamma(49)} dx = .359,4184,$

the correct answer being .359,4195, or an error of 1 in the sixth figure.

The quartic will be found to give results correct to the fifth figure between 45.5 and 51.1. We have chosen  $p$  of order below 50 that we may be able to test the accuracy from our tables, but with values above 70, or, say, of order 100, we may be sure of accuracy to the sixth figure, and for areas between mode and mean to the seventh.  $d' = p \pm 3$  is the reasonable area for application of this formula.

We may compare the results above obtained with those found by the Method  $E'$  of p. xviii. That formula may be written

$$\int_0^{p+d'} \frac{x^p e^{-x}}{\Gamma(p+1)} dx = .5 + \frac{\sqrt{2\pi p} e^{-p} p^p}{\Gamma(p+1)} \left[ \mu_0(\bar{d}') - \mu_0(\bar{d}) + \frac{1}{\sqrt{p}} \left\{ \frac{2}{3} \{m_3(\bar{d}') - m_3(\bar{d})\} + \frac{1}{(\sqrt{p})^2} \left\{ \frac{5}{6} (m_6(\bar{d}') - m_6(\bar{d})) - \frac{3}{4} (m_4(\bar{d}') - m_4(\bar{d})) \right\} + \frac{1}{(\sqrt{p})^3} \left\{ \frac{64}{27} (m_9(\bar{d}') - m_9(\bar{d})) - 4 (m_7(\bar{d}') - m_7(\bar{d})) + \frac{8}{5} (m_5(\bar{d}') - m_5(\bar{d})) \right\} \right] \dots\dots\dots(\text{xlvi}),$$

where  $\bar{d}' = d'/\sqrt{p}$ ,  $\bar{d} = d/\sqrt{p}$ .

To compare with the above case we must take  $\bar{d}' = 3.1/\sqrt{48} = .447,4465$ ,  $\bar{d} = .6670,7279/\sqrt{48} = .096,2837$ .

We have, using Degen,  $\log \Gamma(49) = 61.09390,87881,$

and by aid of Vega's 10-figure logarithms we find

$$\log \frac{\sqrt{2\pi p} e^{-p} p^p}{\Gamma(p+1)} = \bar{1}.99924,60287, \text{ or } \frac{\sqrt{2\pi p} e^{-p} p^p}{\Gamma(p+1)} = .99826,54237.$$

From the Tables of the Probability Integral we have  $\mu_0(\bar{d}') - \mu_0(\bar{d}) = .672,7205 - .538,3514 = .134,3691$ .

Thus the value as found by supposing the curve to be simply a curve of errors is .634,1360 as against the correct value .634,3110, or we have an error of 2 in the fourth place.

We will now add in the  $m_3$  terms, interpolating from the *Tables for Statisticians*, p. 22. Interpolating by central differences up to  $\delta^4$  inclusive we have, for  $m_3(\bar{d}')$ , and by forward differences, for  $m_3(\bar{d})$ ,

$$m_3(\bar{d}') = .0018703, \quad m_3(\bar{d}) = .000,0043.$$

Hence  $\frac{1}{\sqrt{p}} \frac{2}{3} \{m_3(\bar{d}') - m_3(\bar{d})\} = .000,1796$  and multiplying by the external factor we have .000,1793 to add, we find as our second approximation .634,3153, which is only in excess by four units in the sixth figure. It is thus only very slightly inferior to the quartic method, which we saw was three units out in the sixth figure.

We proceed to a still higher approximation;  $m_4(\bar{d})$  and  $m_6(\bar{d})$  contribute nothing and we only need  $m_4(\bar{d}')$  and  $m_6(\bar{d}')$ . We find  $m_4(\bar{d}') = .000,4441$ ,  $m_6(\bar{d}') = .000,0122$ .

Substituting, we find that  $-.000,0067$  is the value contributed by the third approximation, or the result is .634,3086, which is only two out in the sixth place instead of four. Thus the next approximation has not produced correctness to the sixth figure. The next term, if included, leads to a result out by slightly less than two in the sixth place of decimals. Thus after the  $m_3$  terms we have not a very rapid approach to seven-figure accuracy. Several other results were tried; on the whole the quartic gave slightly better results, possibly with slightly greater labour. If we get further from the mode the result becomes less exact. Thus

$$\int_{49}^{56} \frac{x^{49} e^{-x} dx}{\Gamma(50)} = .343,9900,$$

but taking  $I(7.9195,9595,49)$  and  $I(6.9296,4646,49)$  out of the tables their difference is .343,9617, or the above process will be three out in the fifth figure†. We must therefore for greater accuracy fall back on some of the other processes already discussed.

\* If the coefficients of the  $d', d$  factors be called respectively  $a_0, a_2, a_3, a_4$  then a test of accuracy is that  $a_0 + 3a_2 + 4a_3 + 5a_4 = y_3$ .  
 † Of course for  $p > 70$  greater accuracy say to the sixth decimal place is possible by the above methods within the range  $p \pm 5$ .



(h) *On the use of Quadratures to determine the Value of  $I(u, p)$  beyond the Limits of the Tables.*

We have already indicated that Weddle with 18 to 24 terms will give results accurate to about six places of decimals.

*Illustrations.* Find  $I(\xi = 102, 99)$ , or  $\int_0^{102} \frac{x^{99}e^{-x}}{\Gamma(100)} dx$ .

Since the area required covers the mode we shall find it better to evaluate  $\int_{102}^{\infty} \frac{x^{99}e^{-x}}{\Gamma(100)} dx$ .

Let us use Weddle (see equation (xxxviii)) and 24 ordinates.

The following are the computed values obtained by using Vega's 10-figure logarithms\* and Degen's value of  $\log \Gamma(100) = 155.97000,36547$ .

$x_0 = 102:$	$y_0 = .0383,15650$	$x_9 = 129:$	$y_9 = .0009,00305$	$x_{18} = 156:$	$y_{18} = .0000,00251$
$x_1 = 105:$	$y_1 = .0336,36930$	$x_{10} = 132:$	$y_{10} = .0004,36459$	$x_{19} = 159:$	$y_{19} = .0000,00082$
$x_2 = 108:$	$y_2 = .0272,36048$	$x_{11} = 135:$	$y_{11} = .0002,01041$	$x_{20} = 162:$	$y_{20} = .0000,00026$
$x_3 = 111:$	$y_3 = .0204,30724$	$x_{12} = 138:$	$y_{12} = .0000,88184$	$x_{21} = 165:$	$y_{21} = .0000,00008$
$x_4 = 114:$	$y_4 = .0142,56263$	$x_{13} = 141:$	$y_{13} = .0000,36912$	$x_{22} = 168:$	$y_{22} = .0000,00002$
$x_5 = 117:$	$y_5 = .0092,88429$	$x_{14} = 144:$	$y_{14} = .0000,14773$	$x_{23} = 171:$	$y_{23} = .0000,000007$
$x_6 = 120:$	$y_6 = .0056,70246$	$x_{15} = 147:$	$y_{15} = .0000,05664$	$x_{24} = 174:$	$y_{24} = .0000,000002$
$x_7 = 123:$	$y_7 = .0032,53727$	$x_{16} = 150:$	$y_{16} = .0000,02084$		$h = 3$ units
$x_8 = 126:$	$y_8 = .0017,60255$	$x_{17} = 153:$	$y_{17} = .0000,00737$		

Using (xxxviii) we find  $\int_{102}^{\infty} \frac{x^{99}e^{-x}}{\Gamma(100)} dx = .408,2836$ , or, the required integral,  $\int_0^{102} \frac{x^{99}e^{-x}}{\Gamma(100)} dx = .591,7164$ .

To determine the value by integration by parts using (xxix) we need 49 terms, the correct value to seven figures determined by that process is .591,7186. The value as found by the quartic process of p. xvi is .591,7184. It is thus clear that the 'Weddling' gives a result only correct to 2 in the sixth figure, while the quartic is correct to 2 in the seventh figure. If we pass further from the mode, however, the relative position of the two processes is reversed.

We may take as a second illustration the evaluation of  $\int_0^{97} \frac{x^{99}e^{-x}}{\Gamma(100)} dx$ . The ordinates become significant in the tenth figure only at  $x = 49$ .

$x_0 = 49:$	$y_0 = .0000,00000$	$x_9 = 67:$	$y_9 = .0000,51722$	$x_{18} = 85:$	$y_{18} = .0134,10316$
$x_1 = 51:$	$y_1 = .0000,00001$	$x_{10} = 69:$	$y_{10} = .0001,28747$	$x_{19} = 87:$	$y_{19} = .0181,46064$
$x_2 = 53:$	$y_2 = .0000,00005$	$x_{11} = 71:$	$y_{11} = .0002,94893$	$x_{20} = 89:$	$y_{20} = .0233,02263$
$x_3 = 55:$	$y_3 = .0000,00028$	$x_{12} = 73:$	$y_{12} = .0006,24399$	$x_{21} = 91:$	$y_{21} = .0284,64026$
$x_4 = 57:$	$y_4 = .0000,00128$	$x_{13} = 75:$	$y_{13} = .0012,27369$	$x_{22} = 93:$	$y_{22} = .0331,45261$
$x_5 = 59:$	$y_5 = .0000,00526$	$x_{14} = 77:$	$y_{14} = .0022,48553$	$x_{23} = 95:$	$y_{23} = .0368,68671$
$x_6 = 61:$	$y_6 = .0000,01931$	$x_{15} = 79:$	$y_{15} = .0038,53136$	$x_{24} = 97:$	$y_{24} = .0392,49425$
$x_7 = 63:$	$y_7 = .0000,06370$	$x_{16} = 81:$	$y_{16} = .0061,96696$		$h = 2$ units
$x_8 = 65:$	$y_8 = .0000,19023$	$x_{17} = 83:$	$y_{17} = .0093,81786$		

Applying equation (xxxviii) we find  $\int_0^{97} \frac{x^{99}e^{-x}}{\Gamma(100)} dx = .393,7232$ .

We now took twelve terms only of the series and again applied Weddle with the result that we reached *exactly* the same value .393,7232. We do not think, however, that this is a very strong argument for using 12 instead of 24 ordinates to abbreviate the work, especially if the fewer ordinates' process be extended to the falling asymptotic side of the curve. The quartic curve process gave in this case the value .393,7230, differing only by 2 in the seventh figure from the quadrature. The true value obtained by computing 60 terms of (xxviii) is .393,7231.

The reader will be able to judge from the above illustrations the amount of work needful in evaluating  $I(u, p)$  beyond the limits of the tables where  $p$  is of the order 100. Less satisfactory results are obtained when  $p$  is of the order 50, and this is why the rule of throwing back into the table should be adopted. The following illustrate results obtained by Weddle's Rule†:

\* For the convenience of the reader we give two logarithms not directly provided by Vega:

$$\log e = .43429,44819,03 \text{ and } \log \sqrt{2\pi} = .39908,99341,79.$$

† Inferior results were obtained from other quadrature formulae.

Number of ordinates	Integral	Value	Error
12	$\int_0^{29.4} \frac{x^{48} e^{-x}}{\Gamma(49)} dx$	·000,5863	+ ·000,0013
16 + 2 zeros	$\int_0^{39.2} \frac{x^{48} e^{-x}}{\Gamma(49)} dx$	·072,4902	+ ·000,0041
18	$\int_0^{45} \frac{x^{48} e^{-x}}{\Gamma(49)} dx$	·294,6758	+ ·000,0047
20 + 4 zeros	$\int_0^{48} \frac{x^{48} e^{-x}}{\Gamma(49)} dx$	·518,9937	- ·000,0056
24	$\int_{49}^{\infty} \frac{x^{48} e^{-x}}{\Gamma(49)} dx$	·481,0073	+ ·000,0066

It is clear that Weddle's Rule with only 24 ordinates will not give more than five-figure accuracy, if  $p$  be as low as 60 and our bounding ordinate not very far from the mode.

(i) *Concluding Remarks.*

The reader will observe that it takes a fair amount of computing labour to obtain the value of the incomplete  $\Gamma$ -function to seven-figure accuracy beyond the limits of our tables, if the bounding ordinate be not very far from the mode, and that this labour increases as we approach the limit of the table. Thus the range of our tables was not chosen for relative ease of computing. It would have been far easier to supply the values of our integral for  $p = 50$  to 100, than from  $p = -1$  to 50. But the latter were selected as being of the greater practical use. After  $p = 70$  with populations of 1000 or under, the probable errors of random sampling would hardly allow the statistician to distinguish between the two frequency distributions

$$y = y_0 e^{-\frac{1}{2}x^2/\sigma^2} \quad \text{and} \quad y = y_0 e^{-\frac{px}{a}} \left(1 + \frac{x}{a}\right)^p.$$

He does not, indeed, need the six or seven-figure accuracy which has been our aim throughout this work. Four to five-figure accuracy is all he requires and our tables and methods will readily supply him with this, although we have felt bound to provide processes which reach nearer the standard of others, mathematicians and physicists, who may require to use our tables.

In the preparation of this Introduction I am deeply indebted to Miss Ethel M. Elderton, Miss Margaret Moul and Mr James Henderson for their aid in various laborious computations, many of which are represented in these pages by merely an individual numerical result or a single statement as to the degree of accuracy attainable by a given process. Beyond these more or less tangible facts, stands a mass of computations, usually with results of a negative character, adopted and discarded, and only mentioned here in order to warn the reader that more or less obvious suggestions have not necessarily remained untried because they are not referred to in the text. I have finally to express my deep gratitude to the Department of Scientific and Industrial Research for undertaking the publication of this work. With the very limited publication-funds of our Laboratories, rendered still more inadequate by the War, there appeared no prospect of the early issue of these Tables, and the relief not only of myself, but of the whole staff, was great when that Department came to our aid.

K. P.



*(and stupid!)*

"A PAINFULL WORK, IT IS I'LL ASSURE YOU,  
AND MORE THAN DIFFICULT, WHEREIN  
WHAT TOYLE HATH BEEN TAKEN, AS NO  
MAN THINKETH, SO NO MAN BELIEVETH,  
BUT HE THAT HATH MADE THE TRIALL."

ANTONY A WOOD.

THE INCOMPLETE  $I$ -FUNCTION

TABLE I

THE  $I(u, p)$  FUNCTION  
FOR POSITIVE VALUES OF THE ARGUMENT  $p$



$u$	$p = 0.0$		$p = 0.1$		$p = 0.2$		$p = 0.3$		$p = 0.4$		$p = 0.5$		$u$				
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$			
0	0.000000			0.000000			0.000000			0.000000			0.000000	0			
1	0.0951626	-00660 +48184	+3218	0.0757471	+23992 +38768	+1833	0.0602084	+106654 +31185	+1404	0.0477884	+149091 +25066	+1180	0.0387749	+178776 +20124	+954	0.0299738	1
2	0.1812692	-81940 +24119	+2318	0.1538924	-89923 +38866	+1833	0.1304822	-3493 +34159	+1404	0.1104859	+27291 +20377	+1180	0.0934274	+52343 +23261	+823	0.0788949	2
3	0.2591818	-74144 +39226	+2318	0.2280454	-50708 +85039	+1833	0.2004128	-28439 +31824	+1404	0.1759125	-7835 +28019	+1180	0.1542142	+10743 +22056	+823	0.1350214	3
4	0.3296800	-67089 +81991	+2318	0.2971276	-52839 +92350	+1833	0.2675002	-38494 +26229	+1404	0.2405556	-24292 +24643	+1180	0.2160753	-10561 +22644	+823	0.1938594	4
5	0.3934693	-60702 +25419	+2318	0.3609259	-51822 +23847	+225	0.3307472	-42302 +22100	+152	0.3027785	-32448 +20705	+111	0.2768803	-22513 +10421	+81	0.2529242	5
6	0.4511884	-54928 +19841	+2318	0.4195420	-49437 +202	+178	0.3897640	-42302 +17708	+152	0.3617566	-38415 +10648	+72	0.3354340	-29278 +16062	+72	0.3107176	6
7	0.5034147	-49700 +15249	+2318	0.4732141	-46460 +14485	+178	0.4444606	-42480 +13661	+152	0.4170929	-37915 +13347	+72	0.3910599	-28287 +12898	+72	0.3663167	7
8	0.5506710	-44970 +11530	+2318	0.5222408	-43240 +10986	+178	0.4949092	-40858 +10601	+152	0.4686377	-37909 +10306	+72	0.4433971	-34481 +10077	+72	0.4191642	8
9	0.5934303	-4059 +8563	+2318	0.5669432	-39399 +8139	+178	0.5412720	-38749 +82	+152	0.5163916	-36974 +7789	+72	0.4922862	-32478 +7577	+72	0.4689455	9
1.0	0.6321206	-36920 +6220	+2318	0.6076457	-36934 +5900	+178	0.5837608	-36375 +5723	+152	0.5604481	-35475 +5638	+72	0.5376992	-34172 +5611	+72	0.5155114	1.0
1.1	0.6671289	-3314 +4322	+2318	0.6446648	-33909 +4114	+178	0.6226121	-33906 +490	+152	0.6009571	-33657 +3929	+72	0.5796950	-33015 +3839	+72	0.5588268	1.1
1.2	0.6988058	-30145 +3977	+2318	0.6783030	-30683 +2724	+178	0.6580726	-31443 +2602	+152	0.6381024	-31622 +2365	+72	0.6183890	-31506 +2293	+72	0.5989349	1.2
1.3	0.7274682	-27276 +3598	+2318	0.7088459	-28285 +1532	+178	0.6903888	-29039 +1535	+152	0.6720855	-29350 +1303	+72	0.6539324	-29750 +1190	+72	0.6359321	1.3
1.4	0.7534030	-24680 +3177	+2318	0.7365603	-25802 +117	+178	0.7198018	-26720 +723	+152	0.7031156	-27432 +584	+72	0.6864978	-27943 +42	+72	0.6699500	1.4
1.5	0.7768698	-22331 +275	+2318	0.7616945	-23611 +236	+178	0.7465428	-24258 +114	+152	0.7314025	-25376 +67	+72	0.7162689	-26004 +72	+72	0.7011425	1.5
1.6	0.7981035	-20207 +21	+2318	0.7844776	-21386 -204	+178	0.7708313	-22460 -382	+152	0.7571518	-23988 -83	+72	0.7434336	-24196 -395	+72	0.7296795	1.6
1.7	0.8173165	-18284 -298	+2318	0.8051211	-19457 -519	+178	0.7928738	-20531 -647	+152	0.7805618	-21904 -711	+72	0.7681877	-22374 -87	+72	0.7557225	1.7
1.8	0.8347011	-168 +138	+2318	0.8238189	-17675 -716	+178	0.8128632	-18766 -136	+152	0.8018214	-19718 +44	+72	0.7906864	-20619 -362	+72	0.7794552	1.8
1.9	0.8504314	-14970 -670	+2318	0.8407488	-18051 -872	+178	0.8309790	-17077 -1000	+152	0.8211092	-18043 -1072	+72	0.8111322	-18947 -1110	+72	0.8010442	1.9
2.0	0.8646647	-13544 -763	+2318	0.8560736	-14569 -954	+178	0.8473871	-15546 -1078	+152	0.8385928	-18461 -1152	+72	0.8296833	-17389 -1184	+72	0.8206544	2.0
2.1	0.8775436	-12257 -816	+2318	0.8699418	-13212 -994	+178	0.8622406	-14136 -1111	+152	0.8544283	-15029 -1163	+72	0.8464975	-15588 -1230	+72	0.8384437	2.1
2.2	0.8891968	-11088 -836	+2318	0.8824888	-11978 -1003	+178	0.8756805	-12845 -1113	+152	0.8687609	-13058 -1184	+72	0.8617229	-14507 -1230	+72	0.8545619	2.2
2.3	0.8997412	-10036 -859	+2318	0.8938380	-10854 -1006	+178	0.8878359	-11680 -1091	+152	0.8817247	-12449 -1159	+72	0.8754976	-13222 -1204	+72	0.8691501	2.3
2.4	0.9092820	-9078 -824	+2318	0.9041018	-9834 -963	+178	0.8988253	-10577 -1053	+152	0.8934436	-11813 -1118	+72	0.8879501	-12038 -1169	+72	0.8823407	2.4
2.5	0.9179150	-8216 -803	+2318	0.9133822	-8903 -924	+178	0.9087570	-9590 -1005	+152	0.9040313	-10269 -1065	+72	0.8991991	-10940 -1104	+72	0.8942565	2.5
2.6	0.9257264	-7433 -772	+2318	0.9217721	-8063 -81	+178	0.9177297	-8668 -952	+152	0.9135921	-9311 -1004	+72	0.9093541	-9933 -1042	+72	0.9050119	2.6
2.7	0.9327945	-677 +50	+2318	0.9293557	-7297 +333	+178	0.9258336	-7652 +19	+152	0.9222218	-684 +15	+72	0.9185158	-9008 +12	+72	0.9147124	2.7
2.8	0.9391899	-6085 -62	+2318	0.9362096	-6603 -65	+178	0.9331507	-7128 -64	+152	0.9300076	-7640 -618	+72	0.9267767	-6161 -608	+72	0.9234552	2.8
2.9	0.9449768	-5508 -55	+2318	0.9424032	-5874 -59	+178	0.9397555	-6642 -64	+152	0.9370294	-6018 -66	+72	0.9342215	-7389 -67	+72	0.9313296	2.9
3.0	0.9502129	-4992 -48	+2318	0.9479994	-5404 -69	+178	0.9457161	-5927 -56	+152	0.9433596	-6253 -757	+72	0.9409274	-6684 -777	+72	0.9384175	3.0
3.1	0.9549508	-4509 -45	+2318	0.9530552	-4687 -656	+178	0.9510940	-5208 -653	+152	0.9490645	-5652 -701	+72	0.9469649	-6039 -714	+72	0.9447939	3.1
3.2	0.9592378	-4080 -40	+2318	0.9576223	-4418 -44	+178	0.9559451	-4761 -637	+152	0.9542042	-5106 -648	+72	0.9523985	-5458 -658	+72	0.9505270	3.2
3.3	0.9631168	-3691 -37	+2318	0.9617476	-3995 -39	+178	0.9603201	-4301 -44	+152	0.9588333	-4612 -600	+72	0.9572865	-4925 -604	+72	0.9556792	3.3
3.4	0.9666267	-3340 -33	+2318	0.9654734	-3611 -37	+178	0.9642650	-3855 -39	+152	0.9630012	-4180 -554	+72	0.9616820	-4443 -556	+72	0.9603071	3.4
3.5	0.9698026	-3022 -31	+2318	0.9688381	-3264 -33	+178	0.9678214	-3596 -38	+152	0.9667531	-3736 -610	+72	0.9656332	-4005 -612	+72	0.9644622	3.5
3.6	0.9726763	-2740 -29	+2318	0.9718764	-2948 -493	+178	0.9710272	-3187 -33	+152	0.9701294	-3359 -477	+72	0.9691839	-3610 -471	+72	0.9681912	3.6
3.7	0.9752765	-2470 -27	+2318	0.9746199	-2666 -470	+178	0.9739163	-2857 -456	+152	0.9731672	-3054 -444	+72	0.9723736	-3251 -435	+72	0.9715366	3.7
3.8	0.9776292	-2228 -25	+2318	0.9770968	-2408 -427	+178	0.9765197	-2378 -429	+152	0.9758996	-2750 -414	+72	0.9752382	-2927 -402	+72	0.9745366	3.8
3.9	0.9797581	-2028 -22	+2318	0.9793331	-2174 -24	+178	0.9788653	-2326 -23	+152	0.9783570	-2479 -26	+72	0.9778101	-2635 -27	+72	0.9772259	3.9
4.0	0.9816844	-1884 -22	+2318	0.9813518	-1964 -499	+178	0.9809783	-2097 -383	+152	0.9805665	-2229 -362	+72	0.9801185	-2309 -345	+72	0.9796360	4.0
4.1	0.9834273	-1656 -18	+2318	0.9831741	-1774 -393	+178	0.9828816	-1893 -363	+152	0.9825528	-2011 -380	+72	0.9821900	-2139 -321	+72	0.9817951	4.1
4.2	0.9850044	-1501 -16	+2318	0.9848190	-1803 -18	+178	0.9845957	-1704 -344	+152	0.9843380	-1809 -320	+72	0.9840483	-1915 -296	+72	0.9837288	4.2
4.3	0.9864314	-1357 -16	+2318	0.9863036	-1447 -16	+178	0.9861394	-1359 -17	+152	0.9859423	-1629 -301	+72	0.9857151	-1721 -270	+72	0.9854600	4.3
4.4	0.9877227	-1230 -18	+2318	0.9876435	-1307 -14	+178	0.9875293	-1356 -13	+152	0.9873837	-1464 -283	+72	0.9872098	-1548 -263	+72	0.9870096	4.4
4.5	0.9888910	-1111 -12	+2318	0.9888527	-1179 -13	+178	0.9887806	-1247 -13	+152	0.9886787	-1319 -271	+72	0.9885497	-1388 -245	+72	0.9883963	4.5
4.6	0.9899482	-1007 -11	+2318	0.9899440	-1066 -11	+178	0.9899072	-1126 -12	+152	0.9898418	-1186 -256	+72	0.9897508	-1247 -210	+72	0.9896368	4.6
4.7	0.9909047	-910 -10	+2318	0.9909287	-981 -10	+178	0.9909212	-1013 -10	+152	0.9908863	-1065 -241	+72	0.9908272	-1120 -172	+72	0.9907463	4.7
4.8	0.9917703	-823 -8	+2318	0.9918173	-868 -9	+178	0.9918339	-919 -9	+152	0.9918243	-958 -232	+72	0.9917916	-1004 -205	+72	0.9917384	4.8
4.9	0.9925534	-745 -8	+2318	0.9926191	-784 -8	+178	0.9926554	-823 -8	+152	0.9926665	-862 -10	+72	0.9926556	-809 -153	+72	0.9926254	4.9
5.0	0.9932621	-673 -7	+2318	0.9933425	-707 -7	+178	0.9933946	-741 -8	+152	0.9934225	-774 -9	+72	0.9934295	-726 -175	+72	0.9934182	5.0
5.1	0.9939033	-611 -7	+2318	0.9939952	-638 -7	+178	0.9940597	-666 -8	+152	0.9941011	-695 -9	+72	0.9941225	-658 -164	+72	0.9941266	5.1
5.2	0.9944834	-556 -6	+2318	0.9945841	-577 -6	+178	0.9946582	-600 -6	+152	0.9947102	-626 -8	+72	0.9947431	-611 -164	+72	0.9947596	5.2
5.3	0.9950084	-500 -5	+2318	0.9951153	-519 -5	+178	0.9951967	-541 -6	+152	0.995256							



$u$	$p = 0.5$		$p = 0.6$		$p = 0.7$		$p = 0.8$		$p = 0.9$		$p = 1.0$		$u$					
	$\delta_u^2$	$\delta_p^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$I(u, p)$		$\delta_u^2$	$\delta_p^2$			
	$\delta_u^4$	$\delta_p^4$		$\delta_u^4$	$\delta_p^4$		$\delta_u^4$	$\delta_p^4$		$\delta_u^4$	$\delta_p^4$			$\delta_u^4$	$\delta_p^4$			
0			.0000000			.0000000			.0000000			.0000000			0			
.1	+189473	+16135	.0236863	+191596	+12918	.0186906	+186495	+10825	.0147273	+176890	+8240	.0115881	+164037	+8653	.0091054	+149898	+5222	.1
.2	+72064	+21698	.0665322	+68996	+18613	.0560307	+97418	+16943	.0471236	+104193	+13635	.0395799	+107800	+11842	.0332006	+106776	+9925	.2
.3	+27133	+22890	.1180677	+41204	+19086	.1031126	+53087	+17817	.0899392	+62654	+16860	.0783517	+72225	+14095	.0681737	+75207	+12072	.3
.4	+9268	+20800	.1737236	+14104	+19096	.1554968	+24827	+17502	.1390202	+34365	+16923	.1241460	+40287	+14648	.1107365	+48798	+13770	.4
.5	-12714	+18218	.2307899	-3229	+17081	.2103637	+5912	+18002	.1915377	+16792	+14973	.1742090	+22124	+18988	.1582791	+22266	+13851	.5
.6	-21943	+15324	.2875336	-14555	+16622	.2658118	-7243	+13942	.2454842	-113	+13278	.2264844	+6732	+12631	.2087477	+13275	+11998	.6
.7	-27516	+12483	.3428218	-21014	+12087	.3205356	-16177	+11709	.2994194	-10894	+11318	.2794350	-4645	+10932	.2605438	+3996	+10548	.7
.8	-30669	+9572	.3959186	-29629	+9637	.3736417	-22150	+9604	.3523152	-17514	+8321	.3319208	-12968	+9131	.3124395	-8274	+8933	.8
.9	-32154	+7678	.4463626	-29211	+7625	.4245322	-26994	+7478	.4034496	-25227	+7490	.3831100	-18890	+7374	.3635078	-15118	+7310	.9
1.0	-32505	+6619	.4938855	-30611	+5647	.4728243	-29228	+5682	.4523313	-25694	+5719	.4324102	-22943	+5762	.4130643	-20612	+6778	1.0
1.1	-32073	+532	.5383573	-30828	+4058	.5182936	-29308	+4187	.4986436	-27357	+4225	.4794161	-25643	+4310	.4606196	-23352	+4391	1.1
1.2	-31199	+2655	.5797463	-30448	+2744	.5608321	-29333	+2843	.5422022	-28387	+2894	.5238677	-27024	+3065	.5058397	-25463	+3177	1.2
1.3	-29793	+1078	.6180907	-29577	+1783	.6004173	-29198	+1898	.5829221	-28491	+2020	.5656168	-27844	+2141	.5485135	-26612	+2260	1.3
1.4	-28254	+754	.6534776	-28372	+835	.6370887	-28302	+931	.6207929	-28046	+1044	.6046015	-27618	+1160	.5885261	-27015	+1291	1.4
1.5	-26591	+111	.6860272	-26955	+186	.6709299	-27160	+265	.6558591	-27210	+383	.6408246	-27104	+471	.6258372	-26848	+564	1.5
1.6	-24869	+36	.7158813	-26408	+316	.7020551	-26818	+246	.6882043	-26922	+68	.6743373	-26938	+98	.6604635	-26958	+92	1.6
1.7	-23130	+25	.7431946	-25808	+18	.7305987	-26489	+925	.7179403	-26793	+549	.7052262	-26788	+8	.6924643	-26534	+394	1.7
1.8	-21437	+959	.7681281	-25217	+936	.7567074	-26220	+937	.7451970	-26379	+842	.7336024	-26361	+781	.7219297	-26230	+709	1.8
1.9	-19788	+1117	.7908445	-24654	+1107	.7805341	-26120	+1079	.7701158	-26197	+1040	.7595935	-26242	+991	.7489721	-26268	+937	1.9
2.0	-18209	+1210	.8115045	-24198	+1208	.8022338	-26036	+1192	.7928439	-26219	+1166	.7833374	-26104	+1129	.7737180	-26111	+1088	2.0
2.1	-16711	+1252	.8302647	-23749	+1258	.8219599	-25940	+1259	.8135301	-26243	+1234	.8049769	-26002	+1209	.7963028	-26015	+1176	2.1
2.2	-16300	+1266	.8472753	-23300	+1267	.8398260	-25850	+1267	.8323220	-26093	+1258	.8246562	-25866	+1246	.8168661	-25810	+1220	2.2
2.3	-13976	+1231	.8626795	-22850	+1248	.8560841	-25760	+1251	.8493636	-26115	+1260	.8425181	-25788	+1242	.8355484	-25746	+1226	2.3
2.4	-12748	+1183	.8766124	-22400	+1208	.8707636	-25670	+1215	.8647933	-26136	+1273	.8587014	-25646	+1218	.8524882	-25610	+1206	2.4
2.5	-11694	+1131	.8892008	-22000	+1156	.8840301	-25580	+1186	.8787434	-26156	+1186	.8733401	-25512	+1167	.8678201	-25478	+1164	2.5
2.6	-10548	+1068	.9005631	-21600	+1068	.8960058	-25490	+1159	.8913389	-26176	+1164	.8865616	-25478	+1160	.8816735	-25444	+1160	2.6
2.7	-9577	+988	.9108092	-21200	+1014	.9068046	-25400	+1096	.9026974	-26196	+1096	.8984867	-25444	+1104	.8941719	-25410	+1104	2.7
2.8	-8684	+928	.9200409	-20800	+941	.9165325	-25310	+1054	.9129287	-26216	+1096	.9092286	-25400	+1096	.9054317	-25376	+1096	2.8
2.9	-7865	+867	.9283520	-20400	+870	.9252874	-25220	+1012	.9221348	-26236	+1096	.9189932	-25366	+1096	.9155622	-25342	+1096	2.9
3.0	-7115	+788	.9358288	-20000	+801	.9331600	-25130	+969	.9304103	-26256	+1096	.9275790	-25322	+1096	.9246654	-25308	+1096	3.0
3.1	-6483	+726	.9425504	-19600	+734	.9402335	-25040	+927	.9378425	-26276	+1096	.9353769	-25278	+1096	.9328361	-25294	+1096	3.1
3.2	-5899	+684	.9485891	-19200	+671	.9465841	-24950	+885	.9445115	-26296	+1096	.9423710	-25234	+1096	.9391619	-25260	+1096	3.2
3.3	-5381	+607	.9540110	-18800	+611	.9522817	-24860	+844	.9504910	-26316	+1096	.9486384	-25190	+1096	.9467236	-25226	+1096	3.3
3.4	-4728	+557	.9588765	-18400	+568	.9573902	-24770	+802	.9558480	-26336	+1096	.9542498	-25146	+1096	.9525953	-25192	+1096	3.4
3.5	-4261	+509	.9632402	-18000	+508	.9619675	-24680	+807	.9606440	-26356	+1096	.9592698	-25102	+1096	.9578449	-25158	+1096	3.5
3.6	-3836	+460	.9671519	-17600	+462	.9660664	-24590	+802	.9649349	-26376	+1096	.9637575	-25058	+1096	.9625343	-25114	+1096	3.6
3.7	-3424	+427	.9706568	-17200	+422	.9697349	-24500	+807	.9687714	-26396	+1096	.9677663	-25014	+1096	.9667200	-25070	+1096	3.7
3.8	-3107	+392	.9737958	-16800	+384	.9730166	-24410	+802	.9721995	-26416	+1096	.9713450	-24970	+1096	.9704533	-25026	+1096	3.8
3.9	-2792	+360	.9766058	-16400	+361	.9759506	-24320	+807	.9752610	-26436	+1096	.9745376	-24926	+1096	.9737807	-24982	+1096	3.9
4.0	-2510	+332	.9791204	-16000	+321	.9785727	-24230	+811	.9779937	-26456	+1096	.9773841	-24882	+1096	.9767444	-24938	+1096	4.0
4.1	-2254	+306	.9813696	-15600	+294	.9809148	-24140	+816	.9804315	-26476	+1096	.9799205	-24838	+1096	.9793823	-24894	+1096	4.1
4.2	-2025	+282	.9833809	-15200	+271	.9830061	-24050	+820	.9826053	-26496	+1096	.9821794	-24794	+1096	.9817290	-24850	+1096	4.2
4.3	-1816	+262	.9851787	-14800	+248	.9848726	-23960	+825	.9845427	-26516	+1096	.9841901	-24750	+1096	.9838153	-24806	+1096	4.3
4.4	-1629	+243	.9867851	-14400	+228	.9865378	-23870	+830	.9862687	-26536	+1096	.9859789	-24706	+1096	.9856690	-24762	+1096	4.4
4.5	-1462	+227	.9882201	-14000	+211	.9880229	-23780	+835	.9878057	-26556	+1096	.9875696	-24662	+1096	.9873154	-24718	+1096	4.5
4.6	-1310	+212	.9895016	-13600	+195	.9893469	-23690	+840	.9891739	-26576	+1096	.9889835	-24618	+1096	.9887767	-24674	+1096	4.6
4.7	-1174	+197	.9906457	-13200	+182	.9905269	-23600	+845	.9903912	-26596	+1096	.9902397	-24574	+1096	.9900732	-24630	+1096	4.7
4.8	-1051	+184	.9916668	-12800	+176	.9915782	-23510	+850	.9914740	-26616	+1096	.9913553	-24530	+1096	.9912229	-24586	+1096	4.8
4.9	-942	+174	.9925778	-12400	+157	.9925145	-23420	+855	.9924368	-26636	+1096	.9923457	-24486	+1096	.9922421	-24542	+1096	4.9
5.0	-844	+184	.9933905	-12000	+146	.9933482	-23330	+860	.9932925	-26656	+1096	.9932245	-24442	+1096	.9931450	-24498	+1096	5.0
5.1	-764	+154	.9941153	-11600	+137	.9940903	-23240	+865	.9940529	-26676	+1096	.9940041	-24398	+1096	.9939448	-24454	+1096	5.1
5.2	-676	+144	.9947616	-11200	+127	.9947507	-23150	+870	.9947283	-26696	+1096	.9946954	-24354	+1096	.9946528	-24410	+1096	5.2
5.3	-605	+138	.9953376	-10800	+116	.9953383	-23060	+875	.9953281	-26716	+1096	.9953082	-24310	+1096	.9952794	-24366	+1096	5.3
5.4	-540	+128	.9958510	-10400	+113	.9958608	-22970	+880	.9958606	-26736	+1096	.9958512	-24266	+1096	.9958337	-24322	+1096	5.4
5.5	-483	+120	.9963085	-10000	+107	.9963255	-22880	+885	.9963331	-26756	+1096	.9963323	-24222	+1096	.9963239	-24278	+1096	5.5
5.6	-432	+114	.9967160	-9600	+100	.9967386	-22790	+890	.9967524	-26776	+1096	.9967584	-24178	+1096	.9967573	-24234	+1096	5.6
5.7	-387	+108	.9970790	-9200	+94	.9971058	-22700	+895	.9971243	-26796	+1096	.9971356	-24134	+1096	.9971403	-24190	+1096	5.7
5.8	-346	+102	.9974022	-8800	+89	.9974320	-22610	+900	.9974541	-26816	+1096	.9974694	-24090	+1096	.9974787	-24146	+1096	5.8
5.9	-309	+97	.9976900	-8400	+83	.9977219	-22520	+905	.9977465	-26836	+1096	.9977648	-24046	+1096	.9977775	-24102	+1096	5.9
6.0	-278	+92	.9979462	-8000	+79	.9979793	-22430	+910	.9980057	-26856	+1096	.9980262	-24002	+1096	.9980414	-24058	+1096	6.0



$u$	$p = 0.0$		$p = 0.1$		$p = 0.2$		$p = 0.3$		$p = 0.4$		$p = 0.5$		$u$				
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$			
6.0	.9975212	-249	-245	.9976304	-253	-194	.9977201	-259	-167	.9977941	-266	-131	.9978550	-269	-107	.9979052	6.0
6.1	.9977571	-223	-234	.9978633	-229	-186	.9979507	-232	-160	.9980231	-236	-123	.9980832	-241	-103	.9981330	6.1
6.2	.9979706	-204	-226	.9980733	-206	-179	.9981581	-209	-144	.9982285	-212	-116	.9982873	-217	-99	.9983363	6.2
6.3	.9981637	-184	-217	.9982627	-180	-172	.9983445	-187	-136	.9984127	-191	-112	.9984697	-194	-92	.9985175	6.3
6.4	.9983384	-165	-207	.9984335	-166	-164	.9985122	-166	-131	.9985778	-171	-105	.9986329	-174	-89	.9986792	6.4
6.5	.9984966	-152	-200	.9985875	-161	-155	.9986629	-152	-125	.9987258	-163	-100	.9987787	-155	-83	.9988233	6.5
6.6	.9986396	-136	-191	.9987264	-136	-146	.9987984	-137	-119	.9988585	-135	-95	.9989091	-139	-79	.9989518	6.6
6.7	.9987691	-124	-183	.9988517	-123	-141	.9989202	-123	-113	.9989774	-124	-90	.9990256	-124	-74	.9990664	6.7
6.8	.9988862	-111	-174	.9989647	-111	-136	.9990297	-111	-108	.9990839	-111	-84	.9991297	-110	-70	.9991685	6.8
6.9	.9989922	-101	-166	.9990666	-101	-129	.9991281	-100	-101	.9991795	-100	-81	.9992228	-98	-66	.9992595	6.9
7.0	.9990881	-91	-159	.9991584	-90	-122	.9992165	-89	-96	.9992650	-88	-76	.9993059	-88	-62	.9993406	7.0
7.1	.9991749	-83	-151	.9992413	-82	-117	.9992960	-80	-90	.9993417	-79	-72	.9993802	-79	-59	.9994129	7.1
7.2	.9992534	-74	-145	.9993160	-74	-111	.9993675	-73	-86	.9994105	-73	-69	.9994466	-71	-55	.9994773	7.2
7.3	.9993245	-68	-138	.9993833	-66	-104	.9994317	-63	-81	.9994720	-66	-64	.9995059	-63	-62	.9995346	7.3
7.4	.9993887	-60	-130	.9994440	-60	-99	.9994894	-56	-76	.9995272	-55	-61	.9995589	-56	-49	.9995857	7.4
7.5	.9994469	-54	-123	.9994988	-54	-94	.9995413	-53	-72	.9995766	-52	-67	.9996062	-50	-46	.9996313	7.5
7.6	.9994995	-49	-116	.9995482	-49	-90	.9995879	-47	-67	.9996209	-47	-64	.9996485	-45	-43	.9996718	7.6
7.7	.9995472	-46	-111	.9995927	-44	-84	.9996298	-43	-64	.9996605	-42	-60	.9996862	-40	-40	.9997079	7.7
7.8	.9995903	-41	-106	.9996328	-39	-76	.9996674	-39	-61	.9996960	-38	-46	.9997199	-36	-37	.9997401	7.8
7.9	.9996293	-35	-100	.9996690	-36	-74	.9997013	-36	-56	.9997279	-34	-46	.9997500	-32	-34	.9997687	7.9
8.0	.9996645	-35	-94	.9997016	-32	-71	.9997316	-33	-62	.9997564	-30	-43	.9997769	-29	-32	.9997942	8.0
8.1	.9996965	-32	-89	.9997310	-29	-66	.9997590	-28	-46	.9997819	-27	-40	.9998009	-26	-31	.9998169	8.1
8.2	.9997253	-28	-83	.9997575	-26	-62	.9997835	-25	-47	.9998047	-24	-36	.9998223	-23	-29	.9998371	8.2
8.3	.9997515	-26	-80	.9997814	-23	-69	.9998055	-22	-44	.9998252	-22	-34	.9998415	-20	-27	.9998551	8.3
8.4	.9997751	-24	-74	.9998030	-21	-66	.9998253	-20	-41	.9998435	-19	-32	.9998585	-17	-25	.9998711	8.4
8.5	.9997965	-22	-70	.9998224	-19	-62	.9998431	-16	-39	.9998599	-17	-29	.9998738	-16	-24	.9998853	8.5
8.6	.9998159	-20	-67	.9998399	-17	-48	.9998591	-16	-37	.9998746	-16	-27	.9998874	-15	-22	.9998980	8.6
8.7	.9998334	-17	-62	.9998557	-16	-46	.9998734	-14	-34	.9998878	-14	-26	.9998995	-14	-21	.9999093	8.7
8.8	.9998493	-16	-56	.9998699	-14	-42	.9998863	-13	-31	.9998996	-13	-26	.9999104	-13	-19	.9999193	8.8
8.9	.9998636	-13	-56	.9998828	-13	-40	.9998979	-12	-29	.9999101	-11	-23	.9999200	-11	-17	.9999282	8.9
9.0	.9998766	-11	-52	.9998943	-12	-37	.9999083	-10	-27	.9999196	-10	-22	.9999287	-10	-16	.9999362	9.0
9.1	.9998883	-10	-49	.9999048	-11	-35	.9999177	-10	-26	.9999280	-9	-20	.9999364	-9	-15	.9999432	9.1
9.2	.9998990	-10	-46	.9999142	-10	-33	.9999261	-9	-24	.9999356	-9	-19	.9999432	-8	-14	.9999495	9.2
9.3	.9999086	-9	-43	.9999226	-9	-30	.9999336	-7	-23	.9999423	-8	-17	.9999494	-7	-14	.9999551	9.3
9.4	.9999173	-8	-40	.9999303	-8	-28	.9999404	-7	-21	.9999484	-7	-16	.9999549	-7	-13	.9999601	9.4
9.5	.9999251	-7	-37	.9999371	-7	-27	.9999465	-6	-20	.9999538	-8	-14	.9999597	-6	-12	.9999645	9.5
9.6	.9999323	-6	-36	.9999434	-6	-25	.9999519	-6	-18	.9999587	-8	-13	.9999641	-8	-11	.9999685	9.6
9.7	.9999387	-5	-33	.9999489	-5	-23	.9999568	-5	-17	.9999630	-6	-12	.9999680	-6	-10	.9999720	9.7
9.8	.9999445	-4	-31	.9999540	-5	-21	.9999612	-5	-16	.9999669	-4	-11	.9999714	-4	-8	.9999751	9.8
9.9	.9999498	-4	-29	.9999585	-4	-20	.9999652	-4	-15	.9999704	-4	-10	.9999745	-4	-8	.9999778	9.9
10.0	.9999546	-4	-27	.9999626	-4	-19	.9999687	-4	-13	.9999735	-4	-10	.9999773	-4	-8	.9999803	10.0
10.1	.9999589	-4	-26	.9999663	-4	-16	.9999719	-4	-13	.9999763	-4	-9	.9999797	-6	-6	.9999825	10.1
10.2	.9999628	-23	-23	.9999696	-23	-16	.9999748	-12	-12	.9999788	-9	-9	.9999820	-6	-6	.9999844	10.2
10.3	.9999664	-22	-22	.9999726	-14	-14	.9999774	-12	-12	.9999810	-8	-6	.9999839	-6	-6	.9999862	10.3
10.4	.9999696	-21	-21	.9999753	-13	-13	.9999797	-11	-11	.9999830	-7	-7	.9999857	-6	-6	.9999877	10.4
10.5	.9999725	-20	-20	.9999778	-12	-12	.9999818	-10	-10	.9999848	-6	-6	.9999872	-6	-6	.9999891	10.5
10.6	.9999751	-18	-18	.9999800	-11	-11	.9999836	-9	-9	.9999864	-6	-6	.9999886	-4	-4	.9999903	10.6
10.7	.9999775	-17	-17	.9999820	-10	-10	.9999853	-8	-8	.9999879	-6	-6	.9999898	-4	-4	.9999914	10.7
10.8	.9999796	-16	-16	.9999837	-9	-9	.9999868	-8	-8	.9999892	-6	-6	.9999909	-6	-6	.9999923	10.8
10.9	.9999815	-14	-14	.9999853	-9	-9	.9999882	-7	-7	.9999903	-6	-6	.9999919	-6	-6	.9999932	10.9
11.0	.9999833	-14	-14	.9999868	-6	-6	.9999894	-6	-6	.9999913	-4	-4	.9999928	-4	-4	.9999940	11.0
11.1	.9999849	-13	-13	.9999881	-6	-6	.9999904	-6	-6	.9999922	-4	-4	.9999936	-4	-4	.9999946	11.1
11.2	.9999863	-11	-11	.9999893	-7	-7	.9999914	-6	-6	.9999930	-6	-6	.9999943	-6	-6	.9999952	11.2
11.3	.9999876	-11	-11	.9999903	-6	-6	.9999923	-6	-6	.9999938	-6	-6	.9999949	-6	-6	.9999958	11.3
11.4	.9999888	-10	-10	.9999913	-6	-6	.9999931	-4	-4	.9999945	-6	-6	.9999955	-6	-6	.9999963	11.4
11.5	.9999898	-9	-9	.9999921	-6	-6	.9999938	-6	-6	.9999950	-6	-6	.9999960	-6	-6	.9999967	11.5
11.6	.9999908	-8	-8	.9999929	-4	-4	.9999944	-6	-6	.9999955	-6	-6	.9999964	-6	-6	.9999970	11.6
11.7	.9999917	-8	-8	.9999936	-4	-4	.9999950	-6	-6	.9999960	-6	-6	.9999968	-6	-6	.9999974	11.7
11.8	.9999925	-7	-7	.9999943	-4	-4	.9999955	-6	-6	.9999964	-6	-6	.9999971	-6	-6	.9999977	11.8
11.9	.9999932	-7	-7	.9999948	-4	-4	.9999960	-6	-6	.9999968	-6	-6	.9999974	-6	-6	.9999979	11.9
12.0	.9999939	-7	-7	.9999953	-4	-4	.9999964	-6	-6	.9999972	-6	-6	.9999977	-6	-6	.9999981	12.0

$u$	$p = 0.5$		$p = 0.6$		$p = 0.7$		$p = 0.8$		$p = 0.9$		$p = 1.0$		$u$		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
6.0	-276	-92	.9979462	-252	-79	.9979793	-290	-67	.9980057	-295	-69	.9980262	-303	-63	6.0
6.1	-245	-86	.9981742	-251	-76	.9982080	-257	-64	.9982354	-262	-65	.9982573	-269	-65	6.1
6.2	-219	-81	.9983771	-224	-70	.9984110	-223	-60	.9984389	-232	-61	.9984617	-236	-60	6.2
6.3	-195	-77	.9985576	-199	-65	.9985912	-202	-66	.9986192	-206	-69	.9986423	-210	-62	6.3
6.4	-170	-71	.9987182	-177	-61	.9987512	-179	-64	.9987788	-163	-64	.9988020	-166	-60	6.4
6.5	-156	-66	.9988611	-158	-66	.9988931	-160	-69	.9989202	-163	-61	.9989431	-166	-67	6.5
6.6	-139	-63	.9989881	-140	-64	.9990190	-142	-66	.9990453	-146	-69	.9990677	-147	-65	6.6
6.7	-124	-61	.9991011	-125	-60	.9991308	-127	-64	.9991561	-129	-67	.9991778	-131	-63	6.7
6.8	-111	-57	.9992016	-112	-63	.9992299	-113	-62	.9992541	-114	-66	.9992749	-116	-69	6.8
6.9	-99	-53	.9992909	-100	-66	.9993178	-100	-68	.9993409	-101	-63	.9993607	-102	-66	6.9
7.0	-86	-50	.9993703	-89	-63	.9993957	-86	-66	.9994176	-89	-61	.9994365	-90	-65	7.0
7.1	-79	-47	.9994408	-78	-69	.9994648	-78	-64	.9994854	-78	-67	.9995033	-80	-64	7.1
7.2	-70	-45	.9995035	-69	-67	.9995260	-69	-61	.9995455	-69	-65	.9995623	-70	-62	7.2
7.3	-62	-42	.9995592	-62	-65	.9995803	-62	-69	.9995985	-60	-64	.9996143	-61	-61	7.3
7.4	-55	-38	.9996087	-56	-63	.9996284	-60	-67	.9996454	-64	-62	.9996602	-64	-60	7.4
7.5	-49	-36	.9996526	-60	-60	.9996710	-49	-63	.9996869	-49	-61	.9997007	-49	-68	7.5
7.6	-44	-34	.9996917	-44	-63	.9997088	-48	-63	.9997236	-43	-60	.9997364	-42	-66	7.6
7.7	-39	-32	.9997264	-39	-66	.9997423	-36	-62	.9997560	-36	-69	.9997678	-37	-64	7.7
7.8	-35	-31	.9997572	-35	-64	.9997719	-34	-60	.9997846	-34	-67	.9997956	-33	-64	7.8
7.9	-31	-29	.9997845	-31	-62	.9997981	-29	-65	.9998099	-30	-68	.9998200	-29	-63	7.9
8.0	-28	-27	.9998088	-27	-60	.9998214	-26	-63	.9998322	-26	-64	.9998416	-27	-62	8.0
8.1	-25	-23	.9998304	-25	-69	.9998420	-23	-67	.9998519	-23	-63	.9998605	-24	-61	8.1
8.2	-22	-24	.9998495	-22	-68	.9998602	-21	-66	.9998693	-20	-62	.9998772	-22	-60	8.2
8.3	-20	-22	.9998665	-20	-67	.9998763	-19	-60	.9998847	-16	-61	.9998920	-20	-69	8.3
8.4	-19	-21	.9998816	-17	-66	.9998906	-17	-64	.9998983	-18	-60	.9999049	-17	-66	8.4
8.5	-16	-19	.9998950	-16	-66	.9999032	-16	-63	.9999103	-14	-60	.9999164	-16	-66	8.5
8.6	-14	-17	.9999069	-13	-64	.9999144	-13	-61	.9999209	-13	-69	.9999264	-13	-67	8.6
8.7	-13	-16	.9999174	-11	-63	.9999243	-11	-60	.9999302	-11	-69	.9999353	-11	-67	8.7
8.8	-11	-15	.9999268	-10	-62	.9999331	-10	-69	.9999385	-10	-66	.9999431	-10	-66	8.8
8.9	-10	-13	.9999351	-9	-62	.9999408	-8	-66	.9999458	-9	-66	.9999499	-9	-66	8.9
9.0	-9	-13	.9999424	-8	-61	.9999477	-6	-68	.9999522	-8	-67	.9999560	-8	-66	9.0
9.1	-7	-12	.9999489	-7	-60	.9999538	-7	-67	.9999578	-7	-66	.9999613	-7	-66	9.1
9.2	-7	-11	.9999548	-6	-60	.9999591	-6	-67	.9999628	-7	-65	.9999660	-6	-64	9.2
9.3	-6	-10	.9999599	-6	-69	.9999639	-6	-66	.9999672	-6	-66	.9999701	-6	-64	9.3
9.4	-6	-9	.9999644	-6	-66	.9999681	-6	-66	.9999711	-5	-64	.9999737	-4	-64	9.4
9.5	-4	-9	.9999685	-6	-67	.9999718	-4	-60	.9999745	-4	-64	.9999769	-4	-66	9.5
9.6	-4	-8	.9999721	-4	-66	.9999751	-4	-60	.9999776	-4	-66	.9999797	-4	-66	9.6
9.7	-4	-8	.9999752	-4	-66	.9999780	-4	-64	.9999802	-4	-66	.9999821	-4	-66	9.7
9.8	-4	-7	.9999781	-4	-66	.9999805	-4	-66	.9999826	-4	-66	.9999843	-4	-66	9.8
9.9	-6	-6	.9999806	-5	-66	.9999828	-5	-66	.9999847	-4	-66	.9999862	-4	-66	9.9
10.0	-6	-6	.9999828	-4	-66	.9999848	-4	-66	.9999865	-4	-66	.9999879	-4	-66	10.0
10.1	-4	-4	.9999847	-4	-66	.9999866	-4	-66	.9999881	-4	-66	.9999894	-4	-66	10.1
10.2	-4	-4	.9999865	-4	-66	.9999881	-4	-66	.9999895	-4	-66	.9999907	-4	-66	10.2
10.3	-4	-4	.9999880	-4	-66	.9999895	-4	-66	.9999908	-4	-66	.9999918	-4	-66	10.3
10.4	-4	-4	.9999894	-4	-66	.9999907	-4	-66	.9999919	-4	-66	.9999928	-4	-66	10.4
10.5	-4	-4	.9999906	-4	-66	.9999918	-4	-66	.9999928	-4	-66	.9999937	-4	-66	10.5
10.6	-4	-4	.9999916	-4	-66	.9999928	-4	-66	.9999937	-4	-66	.9999944	-4	-66	10.6
10.7	-4	-4	.9999926	-4	-66	.9999936	-4	-66	.9999944	-4	-66	.9999951	-4	-66	10.7
10.8	-4	-4	.9999935	-4	-66	.9999944	-4	-66	.9999951	-4	-66	.9999957	-4	-66	10.8
10.9	-4	-4	.9999942	-4	-66	.9999950	-4	-66	.9999957	-4	-66	.9999962	-4	-66	10.9
11.0	-4	-4	.9999949	-4	-66	.9999956	-4	-66	.9999962	-4	-66	.9999967	-4	-66	11.0
11.1	-4	-4	.9999955	-4	-66	.9999961	-4	-66	.9999967	-4	-66	.9999971	-4	-66	11.1
11.2	-4	-4	.9999960	-4	-66	.9999966	-4	-66	.9999971	-4	-66	.9999975	-4	-66	11.2
11.3	-4	-4	.9999965	-4	-66	.9999970	-4	-66	.9999974	-4	-66	.9999978	-4	-66	11.3
11.4	-4	-4	.9999969	-4	-66	.9999973	-4	-66	.9999977	-4	-66	.9999981	-4	-66	11.4
11.5	-4	-4	.9999972	-4	-66	.9999976	-4	-66	.9999980	-4	-66	.9999983	-4	-66	11.5
11.6	-4	-4	.9999975	-4	-66	.9999979	-4	-66	.9999983	-4	-66	.9999985	-4	-66	11.6
11.7	-4	-4	.9999978	-4	-66	.9999982	-4	-66	.9999985	-4	-66	.9999987	-4	-66	11.7
11.8	-4	-4	.9999981	-4	-66	.9999984	-4	-66	.9999987	-4	-66	.9999989	-4	-66	11.8
11.9	-4	-4	.9999983	-4	-66	.9999986	-4	-66	.9999989	-4	-66	.9999990	-4	-66	11.9
12.0	-4	-4	.9999985	-4	-66	.9999988	-4	-66	.9999990	-4	-66	.9999991	-4	-66	12.0









$u$	$p = 1.0$			$p = 1.1$			$p = 1.2$			$p = 1.3$			$p = 1.4$			$p = 1.5$	
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$u$
0.0	0.000000	—	—	0.000000	—	—	0.000000	—	—	0.000000	—	—	0.000000	—	—	0.000000	0.0
0.1	0.0091054	+149898	+5222	0.0071448	+135241	+4146	0.0055988	+120738	+3288	0.0043816	+106837	+2602	0.0034247	+93817	+2058	0.0026733	0.1
0.2	0.0332006	+108779	+8237	0.0278137	+107538	+8447	0.0232714	+104831	+7177	0.0194469	+100765	+6085	0.0162311	+95761	+5136	0.0135309	0.2
0.3	0.0681737	+78977	+6783	0.0592464	+79850	+6963	0.0514271	+82272	+6799	0.0445877	+83359	+8653	0.0386136	+83294	+7628	0.0334023	0.3
0.4	0.1107365	+49798	+4661	0.0986641	+57275	+4663	0.0878100	+60321	+41084	0.0780644	+64249	+10068	0.0693255	+66989	+9129	0.0614995	0.4
0.5	0.1582791	+29260	+13051	0.1436543	+85668	+12155	0.1302450	+41318	+11893	0.1179660	+46224	+10493	0.1067363	+50394	+9728	0.0964792	0.5
0.6	0.2087477	+13275	+11893	0.1922108	+19401	+11379	0.1768118	+25063	+10772	0.1624900	+30292	+10183	0.1491865	+35906	+9617	0.1368437	0.6
0.7	0.2605438	+896	+10548	0.2427074	+65475	+10159	0.2258869	+9542	+9768	0.2100432	+12499	+9378	0.1951373	+2949	+8987	0.1811301	0.7
0.8	0.3124395	+3009	+8933	0.2938515	+8274	+8274	0.2761360	+1039	+8505	0.2592713	+1509	+8281	0.2432347	+8568	+8281	0.2280207	0.8
0.9	0.3635078	+15118	+7310	0.3446366	+11256	+7286	0.3264890	+7345	+7148	0.3090562	+3425	+7049	0.2923283	+2012	+6937	0.2762941	0.9
1.0	0.4130643	+20012	+6778	0.3942962	+16986	+5794	0.3761075	+13747	+5738	0.3584986	+10477	+5791	0.3414689	+7156	+5772	0.3250164	1.0
1.1	0.4606196	+1554	+4391	0.4422622	+1623	+4465	0.4243513	+1672	+4829	0.4068933	+1887	+4596	0.3898939	+1673	+4630	0.3733575	1.1
1.2	0.5058397	+1229	+3177	0.4881294	+23723	+3283	0.4707474	+2189	+3384	0.4537038	+19776	+3478	0.4370080	+17607	+3663	0.4206685	1.2
1.3	0.5485135	+962	+2260	0.5316243	+1954	+2260	0.5149615	+1127	+2384	0.4985367	+1194	+2485	0.4823614	+985	+2604	0.4664465	1.3
1.4	0.5885261	+20612	+1291	0.5725788	+2581	+1495	0.5567720	+2333	+1928	0.5411180	+2497	+1648	0.5256288	+2007	+1764	0.5103160	1.4
1.5	0.6258372	+26848	+584	0.6109082	+26447	+701	0.5960493	+25908	+818	0.5812722	+25230	+937	0.5665888	+24426	+1652	0.5520106	1.5
1.6	0.6604635	+29255	+324	0.6465929	+29146	+137	0.6327360	+29146	+243	0.6189034	+28566	+354	0.6051062	+29089	+464	0.5913554	1.6
1.7	0.6924643	+3008	+394	0.6796630	+30354	+272	0.6668316	+30354	+272	0.6539790	+30354	+272	0.6411156	+30354	+272	0.6282510	1.7
1.8	0.7219297	+218	+6	0.7101861	+218	+6	0.6983790	+218	+6	0.6865165	+218	+6	0.6746071	+218	+6	0.6626592	1.8
1.9	0.7489721	+22065	+937	0.7382570	+23381	+874	0.7274545	+23722	+807	0.7165713	+23989	+738	0.7056142	+24178	+668	0.6945905	1.9
2.0	0.7737180	+21811	+1088	0.7639898	+22117	+1038	0.7541578	+22362	+986	0.7442272	+22945	+929	0.7342037	+23281	+859	0.7240933	2.0
2.1	0.7963028	+42	+7	0.7875109	+42	+7	0.7786049	+42	+7	0.7695888	+42	+7	0.7604671	+42	+7	0.7512447	2.1
2.2	0.8168661	+1810	+1220	0.8089540	+19410	+1185	0.8009224	+19771	+1165	0.7927743	+20490	+1130	0.7845132	+20968	+1093	0.7761428	2.2
2.3	0.8355484	+17425	+1226	0.8284561	+18038	+1210	0.8212428	+18628	+1187	0.8139108	+19174	+1163	0.8064625	+19688	+1135	0.7989007	2.3
2.4	0.8524882	+39	+4	0.8461544	+39	+4	0.8397011	+39	+4	0.8331299	+39	+4	0.8264423	+39	+4	0.8196405	2.4
2.5	0.8678201	+14784	+1164	0.8621837	+15383	+1168	0.8564315	+15967	+1150	0.8505643	+16532	+1138	0.8445833	+17080	+1126	0.8384898	2.5
2.6	0.8816735	+61	+4	0.8766747	+61	+4	0.8715652	+61	+4	0.8663455	+61	+4	0.8610163	+61	+4	0.8555783	2.6
2.7	0.8941719	+13532	+1109	0.8897529	+14128	+1108	0.8852295	+14694	+1102	0.8806017	+15250	+1093	0.8758699	+15842	+1088	0.8710345	2.7
2.8	0.9054317	+7	+6	0.9015375	+7	+6	0.8975458	+7	+6	0.8934564	+7	+6	0.8892693	+7	+6	0.8849846	2.8
2.9	0.9155622	+1293	+91	0.9121411	+10757	+904	0.9086296	+11239	+907	0.9050274	+11721	+900	0.9013343	+12201	+909	0.8975503	2.9
3.0	0.9246654	+9325	+828	0.9216690	+9773	+831	0.9185895	+10225	+837	0.9154263	+10675	+839	0.9121792	+11125	+841	0.9088480	3.0
3.1	0.9328361	+70	+737	0.9302196	+70	+737	0.9275269	+70	+737	0.9247577	+70	+737	0.9219116	+70	+737	0.9189883	3.1
3.2	0.9401619	+8449	+689	0.9378839	+8863	+689	0.9355367	+9276	+698	0.9331197	+9684	+701	0.9306326	+10114	+702	0.9280750	3.2
3.3	0.9467236	+7641	+625	0.9447464	+8018	+692	0.9427063	+8402	+698	0.9406030	+8787	+701	0.9384361	+9176	+705	0.9362053	3.3
3.4	0.9525953	+6900	+565	0.9508843	+7246	+629	0.9491166	+7592	+632	0.9472918	+7945	+636	0.9454095	+8301	+639	0.9434695	3.4
3.5	0.9578449	+621	+510	0.9563690	+621	+510	0.9548419	+621	+510	0.9532634	+621	+510	0.9516333	+621	+510	0.9499512	3.5
3.6	0.9625343	+56	+439	0.9612652	+56	+439	0.9599502	+56	+439	0.9585890	+56	+439	0.9571815	+56	+439	0.9557273	3.6
3.7	0.9667200	+5037	+372	0.9656325	+5290	+372	0.9645037	+5548	+372	0.9633336	+5810	+372	0.9621219	+6078	+372	0.9608686	3.7
3.8	0.9704533	+4324	+413	0.9695246	+4762	+419	0.9685589	+4983	+413	0.9675563	+5219	+415	0.9665166	+5457	+415	0.9654397	3.8
3.9	0.9737807	+48	+370	0.9729906	+48	+370	0.9721674	+48	+370	0.9713112	+48	+370	0.9704219	+48	+370	0.9694995	3.9
4.0	0.9767444	+4059	+329	0.9760748	+4261	+329	0.9753757	+4467	+329	0.9746170	+4678	+329	0.9738890	+4894	+329	0.9731015	4.0
4.1	0.9793823	+3537	+268	0.9788174	+3818	+268	0.9782259	+4002	+268	0.9776082	+4151	+268	0.9769643	+4302	+268	0.9762942	4.1
4.2	0.9817290	+3537	+240	0.9812545	+3728	+237	0.9805763	+3855	+233	0.9802347	+3986	+233	0.9796898	+4120	+232	0.9791217	4.2
4.3	0.9838153	+325	+216	0.9834188	+2434	+212	0.9830012	+2547	+208	0.9825626	+2652	+207	0.9821033	+2790	+206	0.9816234	4.3
4.4	0.9856690	+3537	+190	0.9853397	+3121	+190	0.9849914	+3270	+187	0.9846243	+3370	+184	0.9842388	+3472	+183	0.9838351	4.4
4.5	0.9873154	+2973	+176	0.9870435	+2973	+176	0.9867546	+2973	+176	0.9864491	+2973	+176	0.9861271	+2973	+176	0.9857889	4.5
4.6	0.9887767	+1851	+158	0.9885540	+1729	+153	0.9883160	+1797	+149	0.9880630	+1874	+146	0.9877954	+1952	+144	0.9875134	4.6
4.7	0.9900732	+18	+143	0.9898923	+18	+143	0.9896977	+18	+143	0.9894896	+18	+143	0.9892685	+18	+143	0.9890346	4.7
4.8	0.9912229	+1468	+130	0.9910775	+1468	+130	0.9909197	+1468	+130	0.9907499	+1468	+130	0.9905683	+1468	+130	0.9903755	4.8
4.9	0.9922421	+1163	+118	0.9921266	+1163	+118	0.9920000	+1163	+118	0.9918625	+1163	+118	0.9917146	+1163	+118	0.9915566	4.9
5.0	0.9931450	+1031	+107	0.9930548	+1031	+107	0.9929544	+1031	+107	0.9928443	+1031	+107	0.9927248	+1031	+107	0.9925963	5.0
5.1	0.9939448	+818	+98	0.9938757	+818	+98	0.9937973	+818	+98	0.9937101	+818	+98	0.9936146	+818	+98	0.9935110	5.1
5.2	0.9946528	+604	+90	0.9946012	+604	+90	0.9945413	+604	+90	0.9944734	+604	+90	0.9943979	+604	+90	0.9943152	5.2
5.3	0.9952794	+396	+82	0.9952424	+396	+82	0.9951977	+396	+82	0.9951458	+396	+82	0.9950871	+396	+82	0.9950220	5.3
5.4	0.9958337	+181	+76	0.9958086	+181	+76	0.9957766	+181	+76	0.9957380	+181	+76	0.9956932	+181	+76	0.9956427	5.4
5.5	0.9963239	+1031	+69	0.9963086	+1031	+69	0.9962869	+1031	+69	0.9962592	+103						



u	p = 1.5		p = 1.6		p = 1.7		p = 1.8		p = 1.9		p = 2.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
0.0			0.000000			0.000000			0.000000			0.000000			0.0			
0.1	+81842	+1623	0.0020842	+70983	+1278	0.016230	+61247	+1098	0.012623	+52903	+790	0.009806	+44991	+620	0.007610	+38333	+488	0.1
0.2	+90158	+4390	0.0112667	+84131	+3681	0.0093707	+77932	+8103	0.0077849	+71723	+2612	0.0064603	+88809	+2198	0.0053553	+50991	+1843	0.2
0.3	+82258	+8713	0.0288623	+99420	+5900	0.0249122	+77937	+8176	0.0214798	+74344	+4639	0.0185009	+71567	+3967	0.0159187	+67918	+3465	0.3
0.4	+68825	+9265	0.0544999	+89845	+7470	0.0482474	+70135	+8742	0.0426691	+69785	+6078	0.0376982	+88853	+5480	0.0322739	+87607	+4910	0.4
0.5	+53848	+8990	0.0871220	+66200	+8313	0.0785961	+58748	+7667	0.0708369	+69276	+7061	0.0637838	+61247	+6491	0.0573798	+61714	+8961	0.5
0.6	+39915	+9052	0.1254061	+43922	+8511	0.1148196	+46128	+7992	0.1053023	+48839	+7491	0.0959941	+51079	+7012	0.0876571	+62854	+8571	0.6
0.7	+26862	+8595	0.1679824	+29224	+8210	0.1565557	+33831	+7825	0.1441116	+36978	+7448	0.1333123	+39982	+7073	0.1232208	+42594	+8714	0.7
0.8	+14188	+7804	0.2135511	+18218	+7854	0.1988549	+22026	+7300	0.1868887	+26599	+7042	0.1746267	+28920	+8782	0.1630429	+31980	+8617	0.8
0.9	+7855	+6811	0.2609114	+9863	+8680	0.2462567	+11707	+8247	0.2322257	+15193	+8384	0.2188331	+16281	+6923	0.2060630	+9274	+6055	0.9
1.0	-3812	+8737	0.3091380	-472	+8699	0.2938292	+2843	+5644	0.2790846	+6108	+5577	0.2648976	+6301	+5500	0.2512605	+12408	+5410	1.0
1.1	+1632	+4667	0.3572872	+1663	+4693	0.3416860	+1477	+4632	0.3265543	+1399	+4689	0.3118922	+1235	+4687	0.2976988	+1087	+4663	1.1
1.2	+1460	-11	0.4046930	+1438	-11	0.3890882	+1403	-12	0.3738597	+1358	-13	0.3590124	+1273	-13	0.3445500	+1190	-11	1.2
1.3	-16330	+3638	0.4508020	-12086	+3708	0.4354374	-10690	+3768	0.4203613	-8038	+3813	0.4055815	-6511	+3860	0.3911052	-2960	+3877	1.3
1.4	+1274	-9	0.4951910	+1294	-9	0.4802645	+1293	-11	0.4655468	+1272	-12	0.4510475	+1247	-12	0.4367756	+1201	-11	1.4
1.5	-133055	+2704	0.5375491	-17200	+2799	0.5232155	-18221	+2855	0.5090205	-13161	+2963	0.4949745	-11031	+3035	0.4810874	-8848	+3095	1.5
1.6	+1091	+18	0.5776618	+1700	+18	0.5640363	+1157	+18	0.5504894	+1118	+18	0.5370315	+1090	+18	0.5236726	+1058	+18	1.6
1.7	-24874	+58	0.6153952	-24668	+188	0.6025582	-23963	+287	0.5894799	-23955	+384	0.5769800	-22674	+481	0.5626528	-21895	+576	1.7
1.8	+487	-295	0.6506818	+687	-295	0.6386838	+582	-1	0.6259739	+631	-1	0.6146611	+672	-2	0.6026543	+710	-2	1.8
1.9	-24789	+8	0.6835078	-24789	+8	0.6723739	-24271	+436	0.6611964	-24160	+358	0.6499831	-23951	+278	0.6387420	-23677	+198	1.9
2.0	+287	+2	0.7139021	+287	+2	0.7036369	+2891	-678	0.6933039	+2874	-609	0.6829100	+2881	-841	0.6724620	+2871	-472	2.0
2.1	-2314	-808	0.7419265	-2314	-808	0.7325178	-23095	-851	0.7230240	-23278	-794	0.7134508	-23411	-737	0.7038039	-23489	-879	2.1
2.2	+210	+2	0.7676671	+210	+2	0.7590902	+210	-863	0.7504165	+22438	-923	0.7416505	+22687	-878	0.7327969	+22885	-827	2.2
2.3	-22832	-958	0.7912284	-22832	-958	0.7834487	-22139	-963	0.7755652	+2178	-1002	0.7675815	+2188	-987	0.7595011	+2194	-928	2.3
2.4	+150	-1053	0.8127265	+150	-1053	0.8057028	+150	-1071	0.7985720	+117	-1045	0.7913367	+148	-1015	0.7839999	+174	-985	2.4
2.5	-20181	-1122	0.8322854	-20181	-1122	0.8259717	-19852	-1075	0.8195505	-20293	-1053	0.8130240	-20679	-1015	0.8063941	-21046	-985	2.5
2.6	-18905	-1109	0.8500325	-18905	-1109	0.8433801	-18605	-1075	0.8386223	-19667	-1053	0.8327606	-20281	-1034	0.8267964	-20921	-1009	2.6
2.7	-16323	-1078	0.8660961	-16323	-1078	0.8610552	-16323	-1078	0.8559127	-17814	-1039	0.8506695	-18277	-1025	0.8453266	-18721	-1008	2.7
2.8	-15061	-1030	0.8806026	-15061	-1030	0.8761235	-15061	-1030	0.8715478	-15304	-961	0.8668760	-17024	-997	0.8621088	-17480	-985	2.8
2.9	-13844	-973	0.8936753	-13844	-973	0.8897093	-13844	-973	0.8856525	-14989	-908	0.8815051	-15774	-954	0.8772674	-16238	-949	2.9
3.0	-12880	-910	0.9054326	-12880	-910	0.9019327	-12880	-910	0.8983483	-14089	-908	0.8946794	-14843	-903	0.8909260	-15090	-899	3.0
3.1	-11674	-842	0.9159875	-11674	-842	0.9129090	-11674	-842	0.9097524	-13360	-845	0.9065177	-13600	-844	0.9032047	-13799	-843	3.1
3.2	-10538	-775	0.9254467	-10538	-775	0.9227473	-10538	-775	0.9199763	-12693	-781	0.9171337	-12223	-783	0.9142191	-12443	-784	3.2
3.3	-9548	-707	0.9339102	-9548	-707	0.9315504	-9548	-707	0.9291256	-11989	-717	0.9266354	-11488	-720	0.9240795	-11548	-722	3.3
3.4	-8681	-643	0.9414714	-8681	-643	0.9394147	-8681	-643	0.9372992	-10962	-654	0.9351244	-10727	-658	0.9328901	-10498	-660	3.4
3.5	-7825	-581	0.9482167	-7825	-581	0.9464297	-7825	-581	0.9445895	-9967	-604	0.9426960	-9974	-608	0.9407486	-9821	-609	3.5
3.6	-7058	-523	0.9542263	-7058	-523	0.9526780	-7058	-523	0.9510821	-9203	-553	0.9494383	-9203	-553	0.9477462	-9085	-555	3.6
3.7	-644	-469	0.9595734	-644	-469	0.9582360	-644	-469	0.9568560	-8509	-502	0.9554332	-8509	-502	0.9539672	-8388	-504	3.7
3.8	-584	-419	0.9643255	-584	-419	0.9631736	-584	-419	0.9619839	-7897	-451	0.9607559	-7897	-451	0.9594895	-7800	-451	3.8
3.9	-531	-374	0.9685439	-531	-374	0.9675548	-531	-374	0.9665321	-7389	-400	0.9654755	-7389	-400	0.9643847	-7300	-400	3.9
4.0	-487	-332	0.9722845	-487	-332	0.9714378	-487	-332	0.9705613	-6989	-350	0.9696548	-6989	-350	0.9687180	-6900	-350	4.0
4.1	-449	-295	0.9755980	-449	-295	0.9748755	-449	-295	0.9741267	-6600	-300	0.9733513	-6600	-300	0.9725492	-6520	-300	4.1
4.2	-416	-262	0.9785304	-416	-262	0.9779159	-416	-262	0.9772781	-6230	-250	0.9766169	-6230	-250	0.9759321	-6150	-250	4.2
4.3	-388	-232	0.9811230	-388	-232	0.9806021	-388	-232	0.9800607	-5880	-200	0.9794986	-5880	-200	0.9789159	-5800	-200	4.3
4.4	-364	-206	0.9834133	-364	-206	0.9829733	-364	-206	0.9825152	-5550	-150	0.9820390	-5550	-150	0.9815446	-5420	-150	4.4
4.5	-343	-181	0.9854346	-343	-181	0.9850644	-343	-181	0.9846782	-5240	-100	0.9842762	-5240	-100	0.9838581	-5100	-100	4.5
4.6	-324	-161	0.9872173	-324	-161	0.9869070	-324	-161	0.9865827	-4950	-70	0.9862444	-4950	-70	0.9858921	-4800	-70	4.6
4.7	-308	-144	0.9887882	-308	-144	0.9885293	-308	-144	0.9882580	-4680	-50	0.9879745	-4680	-50	0.9876787	-4600	-50	4.7
4.8	-295	-126	0.9901715	-295	-126	0.9899565	-295	-126	0.9897306	-4430	-30	0.9894939	-4430	-30	0.9892465	-4350	-30	4.8
4.9	-284	-112	0.9913887	-284	-112	0.9912111	-284	-112	0.9910238	-4200	-20	0.9908272	-4200	-20	0.9906211	-4100	-20	4.9
5.0	-274	-99	0.9924590	-274	-99	0.9923131	-274	-99	0.9921588	-4000	-10	0.9919962	-4000	-10	0.9918252	-3900	-10	5.0
5.1	-265	-88	0.9933996	-265	-88	0.9932806	-265	-88	0.9931541	-3820	-5	0.9930203	-3820	-5	0.9928792	-3700	-5	5.1
5.2	-257	-78	0.9942256	-257	-78	0.9941292	-257	-78	0.9940262	-3660	-1	0.9939168	-3660	-1	0.9938010	-3500	-1	5.2
5.3	-250	-70	0.9949506	-250	-70	0.9948733	-250	-70	0.9947900	-3520	0	0.9947011	-3520	0	0.9946067	-3400	0	5.3
5.4	-244	-62	0.9955866	-244	-62	0.9955251	-244	-62	0.9954584	-3400	0	0.9953868	-3400	0	0.9953102	-3300	0	5.4
5.5	-239	-56	0.9961441	-239	-56	0.9960959	-239	-56	0.9960430	-3300	0	0.9959858	-3300	0	0.9959242	-3200	0	5.5
5.6	-234	-50	0.9966326	-234	-50	0.9965954	-234	-50	0.9965540	-3200	0	0.9965088	-3200	0	0.9964597	-3100	0	5.6
5.7	-230	-45	0.9970604	-230	-45	0.9970322	-230	-45	0.9970004	-3100	0	0.9969651	-3100	0	0.9969264	-3000	0	5.7
5.8	-226	-40	0.9974349	-226	-40	0.9974141	-226	-40	0.9973901	-3000	0	0.9973630	-3000	0	0.9973329	-2900	0	5.8
5.9	-223	-36	0.9977625	-223	-36	0.9977478	-223	-36	0.9977302	-2900	0	0.9977098	-2900	0	0.9976867	-2800	0	5.9
6.0	-220	-33	0.9980490	-220	-33	0.9980392	-220	-33	0.9980267	-2800	0	0.9980119	-2800	0	0.9979946	-2700	0	6.0



$u$	$p = 1.0$			$p = 1.1$			$p = 1.2$			$p = 1.3$			$p = 1.4$			$p = 1.5$	
	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$I(u, p)$	$u$
6.0	.9980414	-309	-45	.9980520	-317	-42	.9980584	-325	-38	.9980610	-333	-35	.9980601	-342	-33	.9980560	6.0
6.1	.9982744	-273	-44	.9982871	-280	-38	.9982960	-287	-34	.9983014	-295	-32	.9983035	-300	-29	.9983028	6.1
6.2	.9984799	-240	-39	.9984942	-248	-35	.9985049	-253	-32	.9985123	-259	-29	.9985169	-266	-28	.9985188	6.2
6.3	.9986613	-212	-37	.9986765	-210	-33	.9986885	-223	-29	.9986975	-227	-27	.9987037	-231	-24	.9987076	6.3
6.4	.9988212	-188	-34	.9988371	-194	-31	.9988498	-195	-27	.9988598	-199	-24	.9988674	-204	-22	.9988728	6.4
6.5	.9989623	-168	-31	.9989783	-171	-28	.9989916	-172	-25	.9990023	-175	-23	.9990107	-179	-20	.9990171	6.5
6.6	.9990866	-147	-28	.9991026	-150	-26	.9991160	-151	-23	.9991271	-154	-20	.9991361	-157	-18	.9991432	6.6
6.7	.9991962	-131	-25	.9992119	-130	-24	.9992253	-133	-21	.9992365	-135	-19	.9992458	-138	-18	.9992533	6.7
6.8	.9992928	-115	-23	.9993082	-115	-22	.9993212	-117	-20	.9993324	-119	-18	.9993417	-120	-17	.9993495	6.8
6.9	.9993779	-101	-24	.9993927	-102	-20	.9994054	-103	-18	.9994163	-104	-18	.9994256	-108	-14	.9994334	6.9
7.0	.9994528	-89	-22	.9994670	-90	-19	.9994792	-90	-17	.9994898	-91	-15	.9994989	-93	-13	.9995067	7.0
7.1	.9995188	-79	-20	.9995323	-79	-18	.9995440	-79	-15	.9995542	-80	-14	.9995629	-80	-12	.9995705	7.1
7.2	.9995769	-69	-18	.9995897	-70	-16	.9996008	-70	-14	.9996105	-70	-13	.9996189	-71	-11	.9996262	7.2
7.3	.9996281	-61	-17	.9996401	-61	-15	.9996506	-61	-13	.9996598	-62	-11	.9996678	-63	-10	.9996748	7.3
7.4	.9996731	-54	-18	.9996844	-53	-14	.9996942	-53	-12	.9997029	-54	-10	.9997104	-53	-9	.9997171	7.4
7.5	.9997127	-47	-15	.9997232	-46	-13	.9997325	-46	-11	.9997406	-46	-10	.9997477	-46	-9	.9997540	7.5
7.6	.9997476	-41	-14	.9997574	-41	-12	.9997660	-40	-10	.9997735	-42	-9	.9997802	-40	-8	.9997861	7.6
7.7	.9997782	-36	-13	.9997873	-36	-11	.9997953	-36	-9	.9998023	-37	-8	.9998085	-33	-7	.9998140	7.7
7.8	.9998052	-33	-12	.9998136	-33	-10	.9998210	-32	-8	.9998275	-32	-6	.9998333	-31	-7	.9998384	7.8
7.9	.9998289	-29	-12	.9998366	-29	-9	.9998435	-28	-8	.9998495	-28	-7	.9998548	-27	-5	.9998595	7.9
8.0	.9998497	-26	-11	.9998569	-26	-8	.9998632	-24	-7	.9998687	-24	-6	.9998736	-24	-5	.9998780	8.0
8.1	.9998680	-22	-10	.9998746	-22	-6	.9998804	-21	-6	.9998855	-21	-5	.9998900	-21	-5	.9998940	8.1
8.2	.9998841	-19	-9	.9998902	-20	-7	.9998955	-19	-6	.9999002	-19	-5	.9999043	-19	-5	.9999080	8.2
8.3	.9998983	-17	-8	.9999038	-17	-6	.9999087	-17	-5	.9999130	-17	-4	.9999167	-17	-4	.9999201	8.3
8.4	.9999107	-15	-7	.9999158	-15	-6	.9999202	-15	-5	.9999241	-15	-4	.9999276	-15	-4	.9999306	8.4
8.5	.9999216	-13	-7	.9999263	-14	-5	.9999303	-13	-4	.9999339	-13	-4	.9999370	-12		.9999398	8.5
8.6	.9999312	-11	-6	.9999354	-12	-5	.9999391	-11	-4	.9999424	-11		.9999452	-10		.9999478	8.6
8.7	.9999397	-9	-6	.9999435	-11	-4	.9999468	-10	-4	.9999498	-10		.9999524	-9		.9999548	8.7
8.8	.9999471	-9	-3	.9999505	-9	-4	.9999535	-9		.9999562	-9		.9999586	-8		.9999607	8.8
8.9	.9999536	-8	-5	.9999567	-8	-4	.9999595	-8		.9999619	-8		.9999640	-7		.9999659	8.9
9.0	.9999593	-7	-4	.9999621	-7		.9999646	-7		.9999668	-6		.9999687	-6		.9999704	9.0
9.1	.9999643	-6	-4	.9999669	-6		.9999691	-6		.9999711	-6		.9999728	-5		.9999744	9.1
9.2	.9999687	-6	-4	.9999710	-5		.9999730	-5		.9999748	-5		.9999764	-5		.9999778	9.2
9.3	.9999725	-5		.9999746	-4		.9999764	-4		.9999781	-4		.9999794	-4		.9999807	9.3
9.4	.9999759	-4		.9999778	-4		.9999794	-4		.9999809	-4		.9999821			.9999833	9.4
9.5	.9999789	-4		.9999806	-4		.9999821	-4		.9999834			.9999845			.9999855	9.5
9.6	.9999815			.9999830			.9999844			.9999856			.9999865			.9999874	9.6
9.7	.9999838			.9999852			.9999863			.9999874			.9999883			.9999891	9.7
9.8	.9999858			.9999870			.9999881			.9999890			.9999898			.9999906	9.8
9.9	.9999876			.9999886			.9999896			.9999904			.9999912			.9999919	9.9
10.0	.9999891			.9999901			.9999909			.9999917			.9999924			.9999929	10.0
10.1	.9999904			.9999913			.9999921			.9999928			.9999934			.9999939	10.1
10.2	.9999916			.9999924			.9999931			.9999937			.9999942			.9999947	10.2
10.3	.9999927			.9999934			.9999940			.9999946			.9999950			.9999954	10.3
10.4	.9999936			.9999942			.9999948			.9999953			.9999957			.9999960	10.4
10.5	.9999944			.9999950			.9999954			.9999959			.9999962			.9999966	10.5
10.6	.9999951			.9999956			.9999960			.9999964			.9999967			.9999970	10.6
10.7	.9999957			.9999962			.9999965			.9999969			.9999972			.9999974	10.7
10.8	.9999962			.9999966			.9999970			.9999973			.9999976			.9999978	10.8
10.9	.9999967			.9999970			.9999974			.9999977			.9999979			.9999981	10.9
11.0	.9999971			.9999974			.9999977			.9999980			.9999982			.9999983	11.0
11.1	.9999975			.9999978			.9999980			.9999982			.9999984			.9999986	11.1
11.2	.9999978			.9999980			.9999983			.9999984			.9999986			.9999988	11.2
11.3	.9999981			.9999983			.9999985			.9999986			.9999988			.9999989	11.3
11.4	.9999983			.9999985			.9999987			.9999988			.9999990			.9999991	11.4
11.5	.9999985			.9999987			.9999989			.9999990			.9999991			.9999992	11.5
11.6	.9999987			.9999989			.9999990			.9999991			.9999992			.9999993	11.6
11.7	.9999989			.9999990			.9999991			.9999992			.9999993			.9999994	11.7
11.8	.9999990			.9999991			.9999992			.9999993			.9999994			.9999995	11.8
11.9	.9999991			.9999992			.9999993			.9999994			.9999995			.9999996	11.9
12.0	.9999992			.9999993			.9999994			.9999995			.9999996			.9999996	12.0

$u$	$p = 1.5$		$p = 1.6$		$p = 1.7$		$p = 1.8$		$p = 1.9$		$p = 2.0$		$u$					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$ $\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$ $\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$ $\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$ $\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$ $\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$						
6.0	-351 -7	-30	.9980490	-301 -7	-28	.9980392	-371 -7	-26	.9980267	-382 -7	-25	.9980119	-392 -7	-23	.9979946	-403 -8	-22	6.0
6.1	-303 -6	-27	.9982994	-316 -6	-25	.9982935	-324 -6	-24	.9982853	-334 -6	-22	.9982748	-342 -5	-21	.9982622	-350 -7	-20	6.1
6.2	-272 -5	-24	.9985182	-277 -5	-23	.9985154	-283 -6	-21	.9985105	-291 -6	-20	.9985036	-298 -6	-19	.9984948	-306 -6	-17	6.2
6.3	-239 -4	-22	.9987093	-243 -4	-21	.9987090	-249 -5	-19	.9987066	-253 -5	-18	.9987026	-260 -5	-17	.9986968	-266 -5	-15	6.3
6.4	-210	-20	.9988761	-212 -4	-19	.9988776	-217 -4	-17	.9988774	-220 -4	-16	.9988756	-225 -5	-15	.9988722	-232 -4	-14	6.4
6.5	-184	-18	.9990217	-180	-17	.9990246	-190	-16	.9990259	-193 -4	-15	.9990258	-199 -4	-13	.9990244	-203 -4	-13	6.5
6.6	-160	-17	.9991487	-163	-15	.9991526	-168	-14	.9991551	-169	-13	.9991563	-172	-12	.9991563	-175	-11	6.6
6.7	-139	-15	.9992594	-142	-14	.9992641	-145	-13	.9992674	-147	-12	.9992696	-150	-11	.9992707	-153	-10	6.7
6.8	-121	-14	.9993559	-124	-13	.9993611	-127	-12	.9993650	-128	-11	.9993679	-130	-10	.9993698	-132	-8	6.8
6.9	-106	-13	.9994400	-108	-12	.9994454	-111	-11	.9994498	-112	-10	.9994532	-113	-9	.9994557	-116	-8	6.9
7.0	-93	-12	.9995133	-93	-11	.9995188	-97	-10	.9995234	-98	-9	.9995271	-98	-8	.9995300	-100	-7	7.0
7.1	-81	-11	.9995771	-83	-10	.9995826	-85	-9	.9995873	-85	-8	.9995912	-86	-7	.9995943	-87	-6	7.1
7.2	-71	-10	.9996326	-72	-9	.9996380	-74	-8	.9996427	-75	-7	.9996467	-75	-6	.9996499	-75	-5	7.2
7.3	-62	-9	.9996809	-63	-8	.9996862	-64	-7	.9996908	-64	-6	.9996947	-65	-5	.9996980	-65	-5	7.3
7.4	-54	-8	.9997229	-54	-7	.9997280	-53	-7	.9997325	-56	-6	.9997363	-56	-5	.9997396	-57	-5	7.4
7.5	-48	-8	.9997595	-47	-7	.9997643	-47	-6	.9997686	-48	-5	.9997723	-48	-5	.9997755	-49	-4	7.5
7.6	-42	-7	.9997913	-41	-6	.9997959	-41	-6	.9997999	-42	-5	.9998034	-41	-4	.9998065	-42	-4	7.6
7.7	-36	-6	.9998189	-36	-6	.9998232	-36	-5	.9998270	-36	-5	.9998304	-35	-4	.9998333	-37		7.7
7.8	-30	-6	.9998429	-31	-5	.9998469	-32	-5	.9998505	-31	-4	.9998536	-30		.9998564	-31		7.8
7.9	-26	-5	.9998638	-27	-5	.9998675	-28	-4	.9998708	-27	-4	.9998738	-27		.9998764	-28		7.9
8.0	-23	-5	.9998819	-24	-4	.9998853	-24	-4	.9998884	-24		.9998912	-24		.9998936	-24		8.0
8.1	-20	-5	.9998976	-21	-4	.9999007	-20		.9999036	-21		.9999061	-20		.9999084	-20		8.1
8.2	-18	-4	.9999112	-18	-4	.9999141	-17		.9999167	-13		.9999191	-18		.9999212	-18		8.2
8.3	-16	-4	.9999231	-16		.9999257	-15		.9999281	-15		.9999303	-16		.9999322	-15		8.3
8.4	-14	-4	.9999333	-14		.9999358	-13		.9999380	-13		.9999399	-13		.9999417	-13		8.4
8.5	-12		.9999424	-11		.9999446	-12		.9999466	-12		.9999484	-12		.9999499	-12		8.5
8.6	-11		.9999501	-10		.9999522	-11		.9999540	-11		.9999556	-11		.9999569	-10		8.6
8.7	-9		.9999568	-9		.9999587	-9		.9999603	-9		.9999617	-9		.9999630	-9		8.7
8.8	-8		.9999626	-8		.9999643	-8		.9999658	-8		.9999671	-8		.9999682	-7		8.8
8.9	-7		.9999676	-7		.9999691	-6		.9999704	-6		.9999716	-8		.9999727	-7		8.9
9.0	-6		.9999719	-6		.9999733	-6		.9999745	-5		.9999756	-5		.9999765	-5		9.0
9.1	-6		.9999757	-5		.9999769	-5		.9999780	-5		.9999790	-5		.9999799	-4		9.1
9.2	-5		.9999790	-5		.9999801	-4		.9999810	-4		.9999819	-4		.9999827	-4		9.2
9.3	-4		.9999818	-4		.9999828	-4		.9999837	-4		.9999845	-4		.9999852	-4		9.3
9.4			.9999843			.9999851			.9999859			.9999866			.9999873			9.4
9.5			.9999864			.9999872			.9999879			.9999885			.9999891			9.5
9.6			.9999882			.9999889			.9999896			.9999901			.9999906			9.6
9.7			.9999898			.9999904			.9999910			.9999915			.9999920			9.7
9.8			.9999912			.9999917			.9999922			.9999927			.9999931			9.8
9.9			.9999924			.9999929			.9999933			.9999937			.9999941			9.9
10.0			.9999934			.9999939			.9999943			.9999946			.9999949			10.0
10.1			.9999943			.9999948			.9999951			.9999954			.9999957			10.1
10.2			.9999951			.9999955			.9999958			.9999961			.9999963			10.2
10.3			.9999958			.9999961			.9999964			.9999966			.9999968			10.3
10.4			.9999964			.9999967			.9999969			.9999971			.9999973			10.4
10.5			.9999969			.9999971			.9999974			.9999975			.9999977			10.5
10.6			.9999973			.9999975			.9999977			.9999979			.9999980			10.6
10.7			.9999977			.9999978			.9999980			.9999982			.9999983			10.7
10.8			.9999980			.9999982			.9999983			.9999984			.9999986			10.8
10.9			.9999983			.9999984			.9999985			.9999986			.9999988			10.9
11.0			.9999985			.9999986			.9999987			.9999988			.9999989			11.0
11.1			.9999987			.9999988			.9999989			.9999990			.9999991			11.1
11.2			.9999989			.9999990			.9999991			.9999992			.9999992			11.2
11.3			.9999990			.9999991			.9999992			.9999993			.9999993			11.3
11.4			.9999992			.9999992			.9999993			.9999994			.9999994			11.4
11.5			.9999993			.9999993			.9999994			.9999995			.9999995			11.5
11.6			.9999994			.9999994			.9999995			.9999995			.9999996			11.6
11.7			.9999995			.9999995			.9999996			.9999996			.9999996			11.7
11.8			.9999995			.9999996			.9999996			.9999997			.9999997			11.8
11.9			.9999996			.9999996			.9999997			.9999997			.9999997			11.9
12.0			.9999997			.9999997			.9999997			.9999998			.9999998			12.0



u	p = 1.0		p = 1.1		p = 1.2		p = 1.3		p = 1.4		p = 1.5				
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	u
12.0	.9999992				.9999993			.9999994			.9999995			.9999996	12.0
12.1	.9999993				.9999994			.9999995			.9999996			.9999997	12.1
12.2	.9999994				.9999995			.9999996			.9999997			.9999998	12.2
12.3	.9999995				.9999996			.9999997			.9999998			.9999999	12.3
12.4	.9999996				.9999997			.9999998			.9999999			1.0000000	12.4
12.5	.9999996				.9999997			.9999997			.9999998			.9999998	12.5
12.6	.9999996				.9999997			.9999997			.9999998			.9999998	12.6
12.7	.9999997				.9999997			.9999998			.9999998			.9999999	12.7
12.8	.9999997				.9999998			.9999998			.9999999			.9999999	12.8
12.9	.9999998				.9999998			.9999999			.9999999			.9999999	12.9
13.0	.9999998				.9999998			.9999999			.9999999			.9999999	13.0
13.1	.9999998				.9999999			.9999999			.9999999			.9999999	13.1
13.2	.9999998				.9999999			.9999999			.9999999			.9999999	13.2
13.3	.9999999				.9999999			.9999999			.9999999			.9999999	13.3
13.4	.9999999				.9999999			.9999999			1.0000000			1.0000000	13.4
13.5	.9999999				.9999999			.9999999			1.0000000			1.0000000	13.5
13.6	.9999999				.9999999			1.0000000			1.0000000			1.0000000	13.6
13.7	.9999999				.9999999			1.0000000			1.0000000			1.0000000	13.7
13.8	.9999999				.9999999			1.0000000			1.0000000			1.0000000	13.8
13.9	.9999999				1.0000000			1.0000000			1.0000000			1.0000000	13.9
14.0	1.0000000				1.0000000			1.0000000			1.0000000			1.0000000	14.0

u	p = 2.0		p = 2.1		p = 2.2		p = 2.3		p = 2.4		p = 2.5							
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	u			
.0	.0000000				.0000000			.0000000			.0000000			.0000000	.0			
.1	.0007610	+38333 -13131	+486 +54	+28 +23	.0005898	+32550 -11430	+380 +47	.0004567	+27549 -9575	+297 +40	.0003532	+23249 -7061	+231 +39	.0002729	+10567 -3253	+151 +25	.0002106	.1
.2	.0053553	+50691 -13131	+1843 +54	+28 +23	.0044346	+54035 -11430	+1541 +47	.0036683	+48897 -9575	+1293 +40	.0030313	+43792 -7061	+1051 +39	.0025025	+39065 -6253	+922 +25	.0020638	.2
.3	.0159187	+67913 -8638	+3465 +81	+28 +23	.0136830	+64092 -8411	+8024 +61	.0117496	+60170 -8092	+2633 +48	.0100796	+66219 -7448	+2291 +42	.0086386	+66219 -6798	+1900 +87	.0073967	.3
.4	.0332739	+87597 -5892	+4910 +50	+28 +23	.0293406	+65737 -5682	+4405 +47	.0258479	+63641 -5791	+3946 +43	.0227498	+61288 -5797	+3561 +40	.0200047	+61288 -5690	+3164 +37	.0175750	.4
.5	.0573798	+61714 -3057	+6981 +85	+28 +23	.0515719	+61720 -3481	+5462 +80	.0463103	+61321 -3629	+5003 +28	.0415488	+60560 -4082	+4571 +26	.0372445	+59484 -4249	+4174 +25	.0333576	.5
.6	.0876571	+52884 -1430	+6551 +21	+28 +23	.0799752	+54229 -1878	+6115 +22	.0729048	+55179 -2253	+5694 +24	.0664038	+55750 -2594	+5300 +23	.0604327	+55982 -2878	+4922 +21	.0549539	.6
.7	.1232208	+42584 -324	+6714 +8	+28 +23	.1138007	+44845 -695	+8259 +11	.1050165	+46787 -1070	+6015 +12	.0968338	+45348 -1401	+5680 +18	.0892191	+44962 -1704	+5354 +14	.0821398	.7
.8	.1630429	+31980 -899	+6517 0	+28 +23	.1521108	+34775 +89	+6260 +1	.1418049	+87299 -211	+5997 +2	.1320984	+39541 -610	+5737 +3	.1229657	+41513 -792	+5432 +4	.1143810	.8
.9	.2060630	+21774 +640	+6065 -8	+28 +23	.1938984	+24788 +614	+6887 -5	.1823225	+27606 +376	+6704 -4	.1713171	+80226 +189	+6526 -3	.1608641	+32549 -163	+6339 -2	.1509451	.9
1.0	.2512605	+12408 +1087	+6410 -10	+28 +23	.2381646	+15411 +924	+5318 -9	.2256007	+18296 +752	+6216 -8	.2135584	+21050 +572	+6108 -7	.2020267	+23683 +387	+4990 -6	.1909939	1.0
1.1	.2976988	+4129 +1190	+4663 -11	+28 +23	.2839719	+6960 +1090	+4635 -10	.2707085	+9738 +970	+4597 -8	.2579047	+12448 +838	+4547 -7	.2455556	+15071 +702	+4481 -6	.2336556	1.1
1.2	.3445500	-2960 +1201	+3877 -11	+28 +23	.3304752	-401 +1140	+3896 -10	.3167901	-2150 +1071	+3905 -10	.3034956	-4630 +994	+8906 -9	.2905916	-7181 +895	+3899 -8	.2780776	1.2
1.3	.3911052	-8848 +1150	+8095 -10	+28 +23	.3769384	-6822 +1125	+3151 -11	.3630867	-4367 +1089	+6195 -10	.3495545	-2692 +1836	+3294 -10	.3363457	-2692 +945	+3265 -9	.3234632	1.3
1.4	.4367756	-13589 +1058	+2357 -7	+28 +23	.4227394	-11715 +1060	+2434 -7	.4089466	-9795 +1053	+2504 -7	.3954042	-7828 +1039	+2568 -8	.3821184	-5924 +1008	+2623 -9	.3690949	1.4
1.5	.4810874	-17266 +950	+1683 -5	+28 +23	.4673686	-16754 -3985	+1779 -8	.4538270	-14170 +974	+1857 -6	.4404711	-12625 +975	+1935 -7	.4273087	-10926 +970	+2008 -7	.4143471	1.5
1.6	.5236726	-19989 +831	+1087 -3	+28 +23	.5104224	-18822 +855	+1182 -4	.4972904	-17571 +883	+1271 -4	.4842855	-16247 +893	+1358 -4	.4714164	-14858 +908	+1439 -4	.4586912	1.6
1.7	.5642582	-21395 +710	+678 -2	+28 +23	.5515940	-21082 +745	+669 -8	.5389967	-20089 +773	+768 -8	.5264752	-19071 +802	+846 -4	.5140383	-17482 +825	+929 -4	.5016943	1.7
1.8	.6026543	-23084 +696	+149 -1	+28 +23	.5906624	-22497 +682	+236 -2	.5786941	-21334 +872	+820 -2	.5667578	-21963 +698	+405 -2	.5548620	-20281 +724	+487 -2	.5430149	1.8
1.9	.6387420	-23781 +489	-472 0	+28 +23	.6274811	-23380 +620	-127 -1	.6162081	-22907 +558	-40 -1	.6049311	-22417 +597	-95 -2	.5936576	-22417 +629	-118 -2	.5823954	1.9
2.0	.6724620	-23781 +396	-472 -1	+28 +23	.6619668	-23634 +430	-402 -8	.6514314	-23422 +467	-333 -8	.6408627	-23144 +493	-264 -7	.6302676	-22902 +529	-193 -7	.6196532	2.0
2.1	.7038039	-23489 +309	-679 -1	+28 +23	.6940891	-23508 +342	-618 -8	.6843125	-23470 +375	-560 -8	.6744799	-23372 +408	-499 -7	.6645974	-23219 +440	-438 -6	.6546711	2.1
2.2	.7327969	-22488 +233	-827 -1	+28 +23	.7238606	-23049 +267	-777 -8	.7148466	-23134 +234	-728 -8	.7057598	-23196 +227	-677 -7	.6966053	-23195 +252	-624 -6	.6873884	2.2
2.3	.7595011	-22954 +174	-926 -1	+28 +23	.7513281	-22310 +292	-887 -8	.7430664	-22522 +225	-846 -8	.7347201	-22692 +250	-802 -8	.7262936	-22331 +282	-781 -8	.7177910	2.3
2.4	.7839999	-21046 +119	-985 -1	+28 +23	.7765646	-21873 +142	-933 -8	.7690340	-21676 +163	-922 -8	.7614112	-21988 +187	-888 -8	.7536998	-22184 +210	-862 -8	.7459032	2.4
2.5	.8063941	-19919 +71	-1009 -1	+28 +23	.7996633	-20306 +92	-985 -8	.7928340	-20667 +117	-962 -8	.7859085	-20997 +155	-934 -8	.7788896	-21297 +154	-908 -8	.7717801	2.5
2.6	.8267964	-18721 +33	-1005 -1	+28 +23	.8207314	-19143 +50	-991 -8	.8145673	-19541 +69	-971 -8	.8083061	-19921 +85	-952 -8	.8019497	-20276 +107	-931 -8	.7955002	2.6
2.7	.8453266	-17480 +3	-985 -1	+28 +23	.8398852	-17823 +19	-973 -8	.8343465	-18951 +31	-962 -8	.8287116	-18757 +49	-945 -8	.8229822	-18756 +64	-931 -8	.8171597	2.7
2.8	.8621088	-16236 -16	-940 -1	+28 +23	.8572467	-18684 -3	-940 -8	.8522906	-19129 +4	-961 -8	.8472414	-17546 +20	-923 -8	.8420999	-17956 +30	-911 -8	.8368673	2.8
2.9	.8772674	-15000 -30	-899 -1	+28 +23	.8729398	-16445 -27	-895 -8	.8685227	-15895 -14	-890 -8	.8640166	-16314 -4	-885 -8	.8594220	-18784 +5	-879 -8	.8547395	2.9
3.0	.8909260	-13799 -43	-843 -1	+28 +23	.8870883	-14285 -42	-843 -8	.8831663	-14684 -21	-830 -8	.8791604	-15089 -24	-837 -8	.8750707	-15597 -17	-834 -8	.8708976	3.0

u	p = 1.5		p = 1.6		p = 1.7		p = 1.8		p = 1.9		p = 2.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
12.0			.9999997			.9999997			.9999997			.9999998			12.0
12.1			.9999997			.9999997			.9999998			.9999998			12.1
12.2			.9999998			.9999998			.9999998			.9999998			12.2
12.3			.9999998			.9999998			.9999999			.9999999			12.3
12.4			.9999998			.9999998			.9999999			.9999999			12.4
12.5			.9999998			.9999999			.9999999			.9999999			12.5
12.6			.9999999			.9999999			.9999999			.9999999			12.6
12.7			.9999999			.9999999			.9999999			.9999999			12.7
12.8			.9999999			.9999999			.9999999			.9999999			12.8
12.9			.9999999			.9999999			.9999999			.9999999			12.9
13.0			.9999999			.9999999			.9999999			1.0000000			13.0
13.1			.9999999			1.0000000			1.0000000			1.0000000			13.1
13.2			1.0000000			1.0000000			1.0000000			1.0000000			13.2

u	p = 2.5		p = 2.6		p = 2.7		p = 2.8		p = 2.9		p = 3.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
.0			.0000000			.0000000			.0000000			.0000000			.0
.1	+16426	+140	.0001624	+13756	+109	.0001251	+11495	+65	.0000963	+9584	+66	.0000740	+7872	+51	.1
.2	+34797	+752	.0017004	+30904	+827	.0013997	+27393	+521	.0011510	+24120	+453	.0009457	+21221	+559	.2
.3	-4714	+25	.0063274	-3299	+20	.0054078	-2039	+17	.0046177	-647	+14	.0039395	-3462	+12	.3
.4	+48454	+1727	.0154269	+44725	+1496	.0135295	+41186	+1295	.0118553	+37709	+1130	.0103795	+34462	+666	.4
.5	-6063	+33	.0298513	-6311	+29	.0266913	-4536	+26	.0238464	-3763	+22	.0212875	-3023	+10	.5
.6	+56943	+3815	.0499319	+53249	+2698	.0453330	+50461	+2923	.0411258	+47535	+1984	.0372803	+44690	+1762	.6
.7	-5495	+33	.0755649	-6211	+31	.0694644	-4867	+28	.0638091	-4478	+25	.0585716	-4050	+23	.7
.8	+58137	+3606	.1063193	+56592	+3463	.0987557	+54799	+3151	.0916658	+62863	+2860	.0850261	+60845	+2596	.8
.9	-4335	+24	.1415416	-4351	+23	.1326349	-4300	+22	.1242062	-4192	+20	.1162368	-4031	+19	.9
1.0	+53896	+4568	.1804481	+55324	+4231	.1703766	+54867	+3817	.1607664	+64039	+3618	.1516043	+62935	+3340	1.0
1.1	-5102	+20	.2221983	-3972	+19	.2111768	-3396	+18	.2005834	-3481	+17	.1904099	-3490	+16	1.1
1.2	+50533	+5044	.2659519	+61214	+4744	.2542123	+61699	+4452	.2428559	+51734	+4178	.2318789	+61632	+3912	1.2
1.3	+9636	+3684	.3109092	+12037	+361	.2986853	+14375	+3831	.2867922	+3795	+29	.2752301	+2717	+14	1.3
1.4	+792	-8	.3563387	+682	-7	.3438540	+560	-7	.3316445	+499	-6	.3197132	+309	-5	1.4
1.5	+2461	+3285	.4015931	+4722	+3801	.3890528	+8957	+3366	.3767319	+6160	+3319	.3646355	+11319	+3804	1.5
1.6	+919	-5	.4461177	+542	-5	.4337032	+792	-7	.4214546	+669	-6	.4093783	+576	-5	1.6
1.7	-3795	+2673	.4894515	-1751	+2716	.4773177	-1509	+1659	.4653003	+2531	+2782	.4534064	+4399	+2807	1.7
1.8	+670	-8	.5312247	+406	-5	.5194990	+254	-5	.5078454	+96	-5	.4962714	+85	-4	1.8
1.9	-21227	+190	.5711522	-20534	+263	.5599353	-19778	+337	.5487521	-18964	+408	.5376097	-18991	+479	1.9
2.0	+634	-3	.6090263	+679	-3	.5983938	+700	-3	.5877624	+725	-3	.5771389	+738	-3	2.0
2.1	-22399	-125	.6447072	-21933	-56	.6347117	-21406	+11	.6246908	-20819	+79	.6146504	-20177	+145	2.1
2.2	+515	-7	.6781143	+592	-7	.6687883	+521	-7	.6594158	+540	-7	.6500020	+564	-7	2.2
2.3	-23006	-376	.7092168	-22738	-318	.7005754	-22413	-254	.6918714	-22034	-195	.6831093	-21699	-134	2.3
2.4	+466	-6	.7380250	+496	-6	.7300688	+525	-6	.7220384	+535	-6	.7139375	+548	-6	2.4
2.5	-23147	-672	.7645827	-23046	-616	.7573303	-22895	-406	.7499361	-22694	-413	.7424929	-22443	-360	2.5
2.6	+354	-6	.7889597	+411	-6	.7823205	+440	-6	.7756149	+468	-6	.7688154	+494	-6	2.6
2.7	-22904	-718	.8112456	-22943	-782	.8052417	-22937	-726	.7991498	-22686	-683	.7929715	-22075	-643	2.7
2.8	+308	-816	.8315445	+535	-816	.8261329	+560	-816	.8206336	+585	-816	.8150481	+608	-816	2.8
2.9	-22353	-816	.8499700	-22505	-670	.8451141	-22616	-642	.8401727	-22593	-705	.8351467	-22725	-655	2.9
3.0	+234	-3	.8666414	+265	-3	.8623027	+288	-3	.8578818	+311	-3	.8533794	+336	-3	3.0
3.1	-21568	-679	.9000000	-21807	-850	.8950000	-22013	-816	.8900000	-22189	-790	.8850000	-22326	-766	3.1
3.2	+177	-910	.9200000	+200	-887	.9150000	+220	-864	.9100000	+245	-899	.9050000	+266	-814	3.2
3.3	-20606	-910	.9400000	-20911	-887	.9350000	-21190	-864	.9300000	-21435	-899	.9250000	-21664	-814	3.3
3.4	+125	-916	.9600000	+145	-898	.9550000	+163	-860	.9500000	+184	-883	.9450000	+204	-843	3.4
3.5	-18519	-916	.9800000	-19870	-898	.9750000	-20200	-860	.9700000	-20511	-883	.9650000	-20795	-843	3.5
3.6	+78	-96	.9900000	+96	-888	.9850000	+110	-877	.9800000	+133	-862	.9750000	+148	-848	3.6
3.7	-18364	-960	1.0000000	-16784	-888	1.0000000	-19100	-877	1.0000000	-19447	-862	1.0000000	-19780	-860	3.7
3.8	+36	-870		+57	-884		+70	-855		+86	-846		+100	-838	3.8
3.9	-17141	+9		-17541	-884		-17926	-855		-18300	-846		-18659	-838	3.9
4.0	+9	-631		+27	-825		+35	-892		+59	-816		+61	-609	4.0
4.1	-16919	-10		-16321	-825		-16717	-892		-17102	-816		-17473	-609	4.1
4.2				+1			+9			+18			+30		4.2



$u$	$p = 2.0$			$p = 2.1$			$p = 2.2$			$p = 2.3$			$p = 2.4$			$p = 2.5$	
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$u$
3.0	.8909260	-18799 43	-843	.8870883	-14295 -42	-843	.8831663	-14664 -31	-839	.8791604	-15069 -24	-837	.8750707	-15507 -17	-834	.8708976	3.0
3.1	.9032047	-12643 -83	-784	.8998133	-13060 -61	-784	.8963435	-13478 -45	-784	.8927953	-13888 -40	-784	.8891687	-14287 -36	-783	.8854638	3.1
3.2	.9142191	-11540 -81	-722	.9112323	-11937 -67	-722	.9081731	-12333 -66	-726	.9050414	-12739 -62	-727	.9018370	-13124 -52	-728	.8985598	3.2
3.3	.9240795	-10498 -75	-660	.9214576	-10871 -62	-669	.9187694	-11246 -61	-698	.9160146	-11626 -60	-668	.9131929	-11994 -62	-671	.9103043	3.3
3.4	.9328901	-9521 -67	-600	.9305958	-9899 -66	-608	.9282411	-10218 -64	-607	.9258258	-10670 -64	-810	.9233494	-10922 -68	-613	.9208118	3.4
3.5	.9407486	-8609 -68	-542	.9387471	-8981 -68	-548	.9366910	-9265 -68	-549	.9345800	-9581 -67	-653	.9324137	-9912 -68	-657	.9301917	3.5
3.6	.9477462	-7768 -68	-487	.9460053	-8039 -69	-491	.9442154	-8328 -67	-495	.9423761	-8660 -66	-499	.9404868	-8983 -70	-663	.9385474	3.6
3.7	.9539672	-6987 -66	-438	.9524576	-7256 -67	-440	.9509040	-7527 -69	-443	.9493062	-7804 -64	-447	.9476636	-8084 -67	-461	.9459759	3.7
3.8	.9594895	-6271 -62	-388	.9581843	-6516 -65	-392	.9568399	-6765 -68	-396	.9554559	-7015 -62	-399	.9540320	-7299 -64	-408	.9525678	3.8
3.9	.9643847	-5619 -58	-345	.9632594	-5837 -62	-348	.9620993	-6066 -63	-351	.9609041	-6328 -60	-355	.9596735	-6582 -62	-368	.9584069	3.9
4.0	.9687180	-5021 -54	-305	.9677508	-5221 -58	-308	.9667527	-5429 -59	-311	.9657235	-5627 -57	-314	.9646628	-5834 -59	-318	.9635704	4.0
4.1	.9725492	-4433 -56	-269	.9717201	-4658 -63	-272	.9708639	-4839 -64	-275	.9699802	-5023 -63	-277	.9690687	-5209 -65	-280	.9681292	4.1
4.2	.9759321	-3891 -56	-237	.9752236	-4149 -63	-239	.9744912	-4398 -66	-242	.9737346	-4656 -66	-244	.9729537	-4922 -66	-247	.9721480	4.2
4.3	.9789159	-3351 -52	-208	.9783122	-3688 -64	-210	.9776876	-3922 -67	-212	.9770418	-4179 -64	-214	.9763745	-4427 -64	-217	.9756856	4.3
4.4	.9815446	-2822 -48	-183	.9810319	-3273 -60	-184	.9805008	-3462 -63	-186	.9799511	-3631 -64	-188	.9793826	-3822 -68	-189	.9787952	4.4
4.5	.9838581	-2296 -46	-160	.9834240	-2903 -56	-161	.9829738	-3014 -60	-163	.9825073	-3127 -61	-164	.9820245	-3245 -63	-166	.9815251	4.5
4.6	.9858921	-1844 -42	-140	.9855258	-2569 -52	-141	.9851454	-2667 -57	-142	.9847508	-2767 -56	-143	.9843419	-2889 -60	-144	.9839186	4.6
4.7	.9876787	-1388 -38	-123	.9873707	-2272 -48	-123	.9870503	-2337 -55	-124	.9867176	-2445 -54	-126	.9863724	-2545 -57	-126	.9860146	4.7
4.8	.9892465	-932 -35	-107	.9889884	-2005 -44	-108	.9887195	-2079 -47	-108	.9884399	-2166 -51	-108	.9881494	-2234 -54	-109	.9878348	4.8
4.9	.9906211	-475 -31	-94	.9904056	-1767 -40	-94	.9901808	-1832 -43	-94	.9899466	-1909 -48	-94	.9897030	-1963 -51	-95	.9894499	4.9
5.0	.9918252	-1501 -22	-82	.9916461	-1586 -33	-82	.9914589	-1613 -35	-82	.9912634	-1670 -38	-82	.9910598	-1729 -40	-82	.9908480	5.0
5.1	.9928792	-1322 -20	-71	.9927310	-1369 -31	-71	.9925757	-1418 -32	-71	.9924132	-1467 -34	-71	.9922437	-1519 -36	-71	.9920671	5.1
5.2	.9938010	-1161 -18	-62	.9936790	-1263 -28	-62	.9935507	-1244 -29	-62	.9934163	-1288 -31	-62	.9932757	-1333 -33	-62	.9931289	5.2
5.3	.9946067	-1022 -16	-56	.9945067	-1065 -27	-54	.9944013	-1092 -29	-54	.9942906	-1130 -31	-53	.9941744	-1160 -33	-53	.9940530	5.3
5.4	.9953102	-895 -15	-48	.9952288	-925 -23	-47	.9951427	-956 -25	-47	.9950519	-987 -27	-47	.9949565	-1022 -29	-46	.9948564	5.4
5.5	.9959242	-785 -13	-42	.9958584	-811 -19	-41	.9957885	-838 -21	-41	.9957145	-865 -23	-40	.9956364	-892 -25	-40	.9955543	5.5
5.6	.9964597	-683 -11	-37	.9964069	-709 -16	-36	.9963505	-732 -18	-36	.9962906	-758 -20	-35	.9962271	-783 -22	-35	.9961601	5.6
5.7	.9969264	-582 -10	-32	.9968845	-622 -14	-32	.9968393	-639 -16	-31	.9967911	-659 -18	-31	.9967398	-680 -20	-30	.9966854	5.7
5.8	.9973329	-487 -9	-29	.9972999	-541 -11	-28	.9972642	-560 -13	-27	.9972257	-576 -15	-27	.9971845	-593 -17	-26	.9971407	5.8
5.9	.9976867	-399 -8	-25	.9976612	-474 -9	-25	.9976331	-486 -10	-24	.9976027	-501 -12	-23	.9975699	-515 -14	-23	.9975349	5.9
6.0	.9979946	-318 -7	-22	.9979751	-414 -8	-22	.9979534	-425 -9	-21	.9979296	-438 -11	-20	.9979038	-449 -13	-20	.9978760	6.0
6.1	.9982622	-246 -7	-20	.9982476	-359 -7	-19	.9982312	-389 -8	-18	.9982129	-399 -10	-18	.9981928	-409 -12	-17	.9981710	6.1
6.2	.9984948	-186 -6	-17	.9984843	-313 -6	-17	.9984721	-323 -7	-17	.9984582	-331 -9	-16	.9984428	-346 -11	-15	.9984258	6.2
6.3	.9986968	-136 -6	-16	.9986895	-273 -5	-15	.9986807	-279 -6	-15	.9986704	-287 -8	-13	.9986588	-293 -10	-13	.9986459	6.3
6.4	.9988722	-96 -4	-14	.9988674	-236 -4	-13	.9988614	-243 -6	-13	.9988541	-250 -8	-12	.9988455	-255 -10	-12	.9988358	6.4
6.5	.9990244	-73 -4	-13	.9990217	-208 -4	-12	.9990178	-211 -5	-11	.9990128	-218 -7	-11	.9990067	-222 -9	-11	.9989995	6.5
6.6	.9991563	-58 -4	-11	.9991552	-179 -3	-10	.9991531	-184 -4	-10	.9991499	-187 -6	-10	.9991457	-190 -8	-9	.9991407	6.6
6.7	.9992707	-45 -3	-10	.9992708	-155 -3	-9	.9992700	-158 -4	-9	.9992683	-162 -6	-9	.9992657	-164 -8	-8	.9992623	6.7
6.8	.9993698	-34 -3	-8	.9993709	-135 -3	-9	.9993711	-139 -4	-8	.9993705	-140 -6	-8	.9993691	-144 -8	-7	.9993670	6.8
6.9	.9994557	-25 -3	-8	.9994574	-117 -3	-8	.9994583	-118 -4	-7	.9994586	-121 -6	-7	.9994581	-123 -8	-8	.9994570	6.9
7.0	.9995300	-18 -3	-7	.9995322	-102 -3	-7	.9995337	-104 -4	-7	.9995346	-105 -6	-6	.9995348	-108 -8	-6	.9995345	7.0
7.1	.9995943	-13 -3	-6	.9995968	-88 -3	-6	.9995987	-89 -4	-6	.9996001	-91 -6	-6	.9996008	-92 -8	-5	.9996011	7.1
7.2	.9996499	-10 -3	-6	.9996526	-78 -3	-5	.9996548	-77 -4	-6	.9996565	-78 -6	-6	.9996576	-81 -8	-5	.9996583	7.2
7.3	.9996980	-8 -3	-5	.9997008	-66 -3	-5	.9997031	-66 -4	-5	.9997050	-67 -6	-4	.9997064	-70 -8	-4	.9997074	7.3
7.4	.9997396	-7 -3	-5	.9997424	-57 -4	-4	.9997448	-57 -6	-4	.9997468	-68 -8	-6	.9997484	-80 -10	-6	.9997496	7.4
7.5	.9997755	-6 -3	-4	.9997783	-49 -4	-4	.9997807	-60 -6	-6	.9997827	-60 -8	-6	.9997844	-61 -10	-5	.9997857	7.5
7.6	.9998065	-5 -3	-4	.9998092	-42 -4	-4	.9998116	-43 -6	-4	.9998136	-48 -8	-4	.9998153	-43 -10	-4	.9998167	7.6
7.7	.9998333	-4 -3	-3	.9998359	-37 -4	-3	.9998382	-37 -6	-3	.9998402	-37 -8	-3	.9998419	-37 -10	-3	.9998434	7.7
7.8	.9998564	-3 -3	-3	.9998589	-32 -4	-3	.9998614	-32 -6	-3	.9998630	-32 -8	-3	.9998647	-32 -10	-3	.9998662	7.8
7.9	.9998764	-3 -3	-2	.9998787	-27 -4	-2	.9998808	-28 -6	-2	.9998826	-28 -8	-2	.9998842	-27 -10	-2	.9998856	7.9
8.0	.9998936	-2 -3	-2	.9998958	-24 -4	-2	.9998977	-24 -6	-2	.9998994	-24 -8	-2	.9999010	-24 -10	-2	.9999023	8.0
8.1	.9999084	-2 -3	-2	.9999105	-21 -4	-2	.9999123	-21 -6	-2	.9999139	-21 -8	-2	.9999154	-21 -10	-2	.9999166	8.1
8.2	.9999212	-2 -3	-2	.9999231	-18 -4	-2	.9999248	-18 -6	-2	.9999263	-18 -8	-2	.9999276	-18 -10	-2	.9999288	8.2
8.3	.9999322	-2 -3	-2	.9999339	-15 -4	-2	.9999355	-18 -6	-2	.9999369	-18 -8	-2	.9999382	-15 -10	-2	.9999393	8.3
8.4	.9999417	-2 -3	-2	.9999433	-13 -4	-2	.9999448	-14 -6	-2	.9999461	-14 -8	-2	.9999472	-13 -10	-2	.9999482	8.4
8.5	.9999499	-2 -3	-2	.9999514	-12 -4	-2	.9999527	-12 -6	-2	.9999539	-12 -8	-2	.9999549	-11 -10	-2	.9999559	8.5
8.6	.9999569	-2 -3	-2	.9999583	-10 -4	-2	.9999595	-10 -6	-2	.9999606	-10 -8	-2	.9999615	-10 -10	-2	.9999623	8.6
8.7	.9999630	-2 -3	-2	.9999642	-8 -4	-2	.9999653	-8 -6	-2	.9999663	-8 -8	-2	.9999671	-8 -10	-2	.9999679	8.7
8.8	.9999682	-2 -3	-2	.9999693	-7 -4	-2	.9999703	-7 -6	-2	.9999712	-7 -8	-2	.9999720	-7 -10	-2	.9999727	8.8
8.9	.9999727	-2 -3	-2	.9999737	-6 -4	-2	.9999746	-6 -6	-2	.9999754	-6 -8	-2	.9999761	-6 -10	-2	.9999767	8.9
9.0	.9999765	-2 -3	-2	.9999774	-5 -4	-2	.9999782	-6 -6	-2	.9999789	-5 -8	-2	.9999796	-6 -10	-2	.9999802	9.0



u	p = 2.5		p = 2.6		p = 2.7		p = 2.8		p = 2.9		p = 3.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
3.0	-15919	-631	.8666414	-16391	-823	.8623027	-16717	-822	.8578818	-17102	-815	.8533794	-17478	-809	.8487961	-17848	-802	3.0
3.1	-14702	-782	.8816807	-16193	-786	.8778196	-16497	-778	.8738807	-16858	-775	.8698643	-17257	-771	.8657708	-17643	-768	3.1
3.2	-13515	-728	.8952097	-15904	-729	.8917868	-14291	-723	.8882911	-14675	-728	.8847225	-15053	-727	.8810812	-15426	-723	3.2
3.3	-12370	-673	.9073483	-12744	-674	.9043249	-13116	-675	.9012340	-13498	-677	.8980754	-13858	-677	.8948490	-14225	-676	3.3
3.4	-11275	-618	.9182125	-11621	-619	.9155514	-11987	-621	.9128281	-12341	-624	.9100425	-12695	-626	.9071943	-13050	-628	3.4
3.5	-10242	-560	.9279136	-10575	-564	.9255792	-10909	-567	.9231881	-11248	-570	.9207400	-11582	-573	.9182346	-11920	-575	3.5
3.6	-9272	-506	.9365572	-9531	-510	.9345161	-9894	-514	.9324236	-10609	-516	.9302793	-10925	-521	.9280829	-10842	-524	3.6
3.7	-8366	-455	.9442427	-8622	-459	.9424636	-8941	-463	.9406382	-9222	-467	.9387661	-9528	-471	.9368470	-9824	-474	3.7
3.8	-7528	-407	.9510630	-7781	-411	.9495170	-8035	-415	.9479296	-8223	-419	.9463003	-8566	-423	.9446287	-8870	-427	3.8
3.9	-6758	-362	.9571042	-6994	-366	.9557648	-7236	-370	.9543885	-7491	-374	.9529749	-7731	-377	.9515234	-7982	-381	3.9
4.0	-6047	-321	.9624460	-6264	-325	.9612890	-6482	-328	.9600993	-6766	-332	.9588764	-6938	-336	.9576199	-7163	-339	4.0
4.1	-5409	-283	.9671614	-5594	-287	.9661650	-5794	-290	.9651395	-5995	-293	.9640847	-6200	-297	.9630001	-6407	-300	4.1
4.2	-4812	-249	.9713174	-4985	-252	.9704616	-5154	-255	.9695802	-5344	-258	.9686730	-5529	-262	.9677396	-5717	-265	4.2
4.3	-4250	-219	.9749748	-4435	-221	.9742418	-4593	-224	.9734865	-4755	-227	.9727084	-4919	-231	.9719074	-5083	-233	4.3
4.4	-3737	-192	.9781887	-3936	-194	.9775627	-4075	-198	.9769172	-4220	-198	.9762519	-4369	-201	.9755664	-4519	-204	4.4
4.5	-3264	-167	.9810090	-3486	-160	.9804760	-3611	-171	.9799259	-3789	-173	.9793585	-3889	-178	.9787735	-4002	-178	4.5
4.6	-2835	-146	.9834807	-3082	-147	.9830282	-3193	-149	.9825607	-3395	-161	.9820782	-3421	-163	.9815804	-3539	-158	4.6
4.7	-2442	-127	.9856442	-2720	-128	.9852611	-2815	-129	.9848650	-2915	-131	.9844558	-3015	-132	.9840334	-3123	-134	4.7
4.8	-2084	-110	.9875357	-2399	-111	.9872122	-2482	-112	.9868776	-2570	-113	.9865316	-2659	-116	.9861741	-2749	-116	4.8
4.9	-1760	-93	.9891873	-2109	-96	.9889151	-2184	-97	.9886332	-2285	-98	.9883415	-2337	-99	.9880399	-2418	-100	4.9
5.0	-1479	-82	.9906280	-1854	-83	.9903996	-1915	-84	.9901629	-1994	-85	.9899177	-2052	-86	.9896639	-2120	-86	5.0
5.1	-1233	-71	.9918833	-1626	-72	.9916923	-1691	-72	.9914942	-1746	-73	.9912887	-1798	-74	.9910759	-1860	-75	5.1
5.2	-1017	-63	.9929760	-1425	-63	.9928169	-1474	-62	.9926515	-1522	-62	.9924799	-1573	-63	.9923019	-1626	-64	5.2
5.3	-827	-52	.9939262	-1247	-52	.9937941	-1289	-54	.9936566	-1382	-54	.9935136	-1374	-64	.9933653	-1420	-55	5.3
5.4	-653	-46	.9947517	-1089	-46	.9946424	-1128	-46	.9945285	-1162	-47	.9944099	-1200	-47	.9942867	-1240	-48	5.4
5.5	-491	-40	.9954683	-952	-40	.9953782	-982	-40	.9952842	-1014	-40	.9951862	-1047	-40	.9950841	-1076	-39	5.5
5.6	-341	-35	.9960897	-830	-34	.9960158	-835	-34	.9959385	-882	-34	.9958578	-910	-34	.9957737	-940	-35	5.6
5.7	-201	-30	.9966281	-722	-30	.9965678	-745	-30	.9965046	-768	-30	.9964384	-792	-30	.9963693	-816	-30	5.7
5.8	-111	-26	.9970943	-629	-26	.9970453	-647	-26	.9969939	-666	-25	.9969398	-687	-25	.9968833	-708	-26	5.8
5.9	-51	-22	.9974976	-547	-22	.9974581	-564	-22	.9974164	-579	-22	.9973725	-587	-22	.9973264	-513	-21	5.9
6.0	-10	-20	.9978462	-475	-19	.9978145	-487	-19	.9977810	-503	-19	.9977455	-517	-16	.9977082	-532	-19	6.0
6.1	-102	-17	.9981474	-412	-17	.9981222	-422	-17	.9980953	-435	-18	.9980668	-446	-15	.9980368	-460	-17	6.1
6.2	-349	-15	.9984074	-357	-14	.9983875	-367	-14	.9983662	-377	-14	.9983435	-386	-14	.9983194	-397	-18	6.2
6.3	-302	-13	.9986317	-309	-13	.9986161	-318	-13	.9985993	-325	-12	.9985814	-334	-11	.9985623	-344	-12	6.3
6.4	-282	-11	.9988249	-267	-11	.9988129	-275	-10	.9987999	-281	-10	.9987859	-289	-10	.9987708	-297	-11	6.4
6.5	-227	-10	.9989914	-231	-10	.9989824	-238	-9	.9989724	-243	-9	.9989615	-249	-9	.9989497	-256	-9	6.5
6.6	-190	-8	.9991348	-200	-8	.9991281	-205	-8	.9991205	-209	-8	.9991122	-214	-8	.9991031	-219	-7	6.6
6.7	-160	-8	.9992582	-173	-7	.9992533	-176	-7	.9992477	-180	-7	.9992415	-184	-6	.9992346	-189	-7	6.7
6.8	-147	-7	.9993643	-149	-6	.9993609	-151	-6	.9993569	-155	-6	.9993523	-159	-6	.9993471	-162	-5	6.8
6.9	-127	-6	.9994554	-128	-5	.9994532	-130	-5	.9994505	-134	-5	.9994472	-138	-5	.9994434	-139	-5	6.9
7.0	-109	-5	.9995337	-110	-5	.9995324	-112	-5	.9995307	-116	-5	.9995285	-120	-5	.9995258	-120	-4	7.0
7.1	-94	-5	.9996010	-93	-5	.9996004	-96	-4	.9995993	-99	-4	.9995979	-100	-4	.9995961	-103	-4	7.1
7.2	-81	-4	.9996586	-81	-4	.9996585	-83	-4	.9996581	-85	-4	.9996573	-86	-4	.9996562	-86	-4	7.2
7.3	-70	-4	.9997081	-71	-4	.9997084	-72	-4	.9997084	-73	-4	.9997081	-74	-4	.9997075	-75	-4	7.3
7.4	-60	-4	.9997505	-61	-4	.9997511	-63	-4	.9997515	-63	-4	.9997515	-64	-4	.9997513	-64	-4	7.4
7.5	-51	-4	.9997868	-52	-4	.9997876	-54	-4	.9997882	-54	-4	.9997885	-55	-4	.9997886	-55	-4	7.5
7.6	-43	-4	.9998179	-44	-4	.9998189	-45	-4	.9998196	-45	-4	.9998201	-47	-4	.9998204	-47	-4	7.6
7.7	-37	-3	.9998446	-38	-3	.9998456	-39	-3	.9998464	-39	-3	.9998470	-39	-3	.9998475	-40	-3	7.7
7.8	-32	-3	.9998674	-33	-3	.9998684	-33	-3	.9998693	-33	-3	.9998700	-34	-3	.9998706	-34	-3	7.8
7.9	-27	-2	.9998869	-29	-2	.9998879	-28	-2	.9998888	-28	-2	.9998896	-28	-2	.9998902	-29	-2	7.9
8.0	-24	-2	.9999035	-24	-2	.9999045	-23	-2	.9999054	-24	-2	.9999062	-25	-2	.9999069	-25	-2	8.0
8.1	-21	-2	.9999177	-20	-2	.9999186	-19	-2	.9999195	-20	-2	.9999203	-21	-2	.9999210	-22	-2	8.1
8.2	-17	-2	.9999299	-17	-2	.9999308	-17	-2	.9999316	-18	-2	.9999324	-18	-2	.9999331	-18	-2	8.2
8.3	-14	-2	.9999403	-14	-2	.9999411	-13	-2	.9999419	-16	-2	.9999426	-16	-2	.9999433	-16	-2	8.3
8.4	-12	-2	.9999491	-12	-2	.9999499	-13	-2	.9999507	-14	-2	.9999514	-14	-2	.9999520	-13	-2	8.4
8.5	-11	-2	.9999567	-10	-2	.9999574	-11	-2	.9999581	-11	-2	.9999588	-12	-2	.9999594	-11	-2	8.5
8.6	-9	-2	.9999631	-9	-2	.9999638	-10	-2	.9999644	-9	-2	.9999650	-10	-2	.9999656	-9	-2	8.6
8.7	-8	-2	.9999686	-8	-2	.9999692	-9	-2	.9999698	-8	-2	.9999704	-9	-2	.9999709	-8	-2	8.7
8.8	-7	-2	.9999733	-7	-2	.9999739	-8	-2	.9999744	-7	-2	.9999749	-8	-2	.9999754	-7	-2	8.8
8.9	-6	-2	.9999773	-6	-2	.9999778	-7	-2	.9999783	-6	-2	.9999788	-7	-2	.9999792	-6	-2	8.9
9.0	-5	-2	.9999807	-5	-2	.9999812	-6	-2	.9999816	-5	-2	.9999820	-6	-2	.9999824	-5	-2	9.0





$u$	$p = 2.5$		$p = 2.6$		$p = 2.7$		$p = 2.8$		$p = 2.9$		$p = 3.0$		$u$		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
9.0	-5		.9999807	-5		.9999812	-6		.9999816	-5		.9999820	-6		9.0
9.1	-4		.9999836	-4		.9999840	-5		.9999844	-4		.9999848	-5		9.1
9.2	-4		.9999861	-4		.9999865	-4		.9999868	-4		.9999872	-4		9.2
9.3			.9999882			.9999885			.9999888			.9999891			9.3
9.4			.9999900			.9999903			.9999906			.9999908			9.4
9.5			.9999915			.9999918			.9999920			.9999923			9.5
9.6			.9999927			.9999930			.9999932			.9999934			9.6
9.7			.9999939			.9999941			.9999943			.9999945			9.7
9.8			.9999948			.9999950			.9999952			.9999954			9.8
9.9			.9999956			.9999958			.9999959			.9999961			9.9
10.0			.9999962			.9999964			.9999965			.9999967			10.0
10.1			.9999968			.9999970			.9999971			.9999972			10.1
10.2			.9999973			.9999974			.9999975			.9999976			10.2
10.3			.9999977			.9999978			.9999979			.9999980			10.3
10.4			.9999981			.9999981			.9999982			.9999983			10.4
10.5			.9999984			.9999984			.9999985			.9999986			10.5
10.6			.9999986			.9999986			.9999987			.9999988			10.6
10.7			.9999988			.9999988			.9999989			.9999990			10.7
10.8			.9999990			.9999990			.9999991			.9999991			10.8
10.9			.9999992			.9999992			.9999992			.9999992			10.9
11.0			.9999993			.9999993			.9999994			.9999994			11.0
11.1			.9999994			.9999994			.9999995			.9999995			11.1
11.2			.9999995			.9999995			.9999995			.9999996			11.2
11.3			.9999996			.9999996			.9999996			.9999996			11.3
11.4			.9999996			.9999996			.9999997			.9999997			11.4
11.5			.9999997			.9999997			.9999997			.9999997			11.5
11.6			.9999997			.9999998			.9999998			.9999998			11.6
11.7			.9999998			.9999998			.9999998			.9999998			11.7
11.8			.9999998			.9999998			.9999998			.9999999			11.8
11.9			.9999998			.9999998			.9999999			.9999999			11.9
12.0			.9999999			.9999999			.9999999			.9999999			12.0
12.1			.9999999			.9999999			.9999999			.9999999			12.1
12.2			.9999999			.9999999			.9999999			.9999999			12.2
12.3			.9999999			.9999999			.9999999			.9999999			12.3
12.4			1.0000000			1.0000000			1.0000000			1.0000000			12.4



u	p = 3.0				p = 3.1				p = 3.2				p = 3.3				p = 3.4				p = 3.5	
	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	u
0	0.000000			0	0.000000			0	0.000000			0	0.000000			0	0.000000			0	0.000000	0
1	0.000568	+6626	+40		0.000436	+5494	+50		0.000334	+4549	+24		0.000256	+3769	+18		0.000196	+3192	+4		0.000150	-1
2	0.000762	+18623	+298		0.0006366	+16304	+247		0.0005217	+14237	+204		0.0004271	+12407	+169		0.0003494	+10788	+139		0.0002855	-2
3	0.003581	+51109	+775		0.0028600	+38551	+715		0.0024337	+25859	+818		0.0020693	+18375	+533		0.0017580	+12982	+457		0.0014924	-3
4	0.009799	+141865	+1563		0.0079365	+39110	+1384		0.0069316	+36431	+1225		0.0060490	+33849	+1082		0.0052748	+31567	+956		0.0045961	-4
5	0.0189882	+48723	+2331		0.0169240	+48641	+2128		0.0150726	+44331	+1924		0.0134136	+42685	+1737		0.0119283	+39354	+1365		0.0105995	-5
6	0.037690	+15155	+3060		0.0305656	+50378	+2833		0.0276457	+48870	+2909		0.0249867	+47278	+2395		0.0225672	+45600	+2200		0.0203677	-6
7	0.0537253	+51319	+3860		0.0492450	+59811	+3420		0.0451067	+50127	+3192		0.0412876	+49288	+2976		0.0377661	+48308	+2770		0.0345216	-7
8	0.0788135	+14907	+4046		0.0730055	+48364	+3829		0.0675804	+48466	+3820		0.0625173	+48386	+3416		0.0577958	+48141	+3222		0.0533966	-8
9	0.1087084	+42732	+4224		0.1016024	+43702	+4044		0.0949007	+44484	+3865		0.0885856	+43083	+3691		0.0826396	+43507	+3519		0.0770454	-9
10	0.1428765	+36030	+4207		0.1345695	+37509	+4069		0.1266694	+38819	+3930		0.1191622	+39087	+3790		0.1120341	+40053	+3651		0.1052710	1.0
11	0.1806476	+28584	+4022		0.1712875	+30402	+375		0.1623200	+32088	+8829		0.1537355	+33635	+3729		0.1452339	+35045	+3626		0.1376749	1.1
12	0.2212771	+20215	+3705		0.2110457	+22920	+3654		0.2011794	+24821	+3892		0.1916723	+26223	+3530		0.1825182	+28216	+3464		0.1737105	1.2
13	0.2639984	+18429	+3292		0.2530959	+15482	+3276		0.2425209	+17473	+3253		0.2322713	+19391	+3294		0.2223441	+21235	+3192		0.2127361	1.3
14	0.3080626	+6414	+2823		0.2966943	+8411	+2837		0.2856097	+10875	+2843		0.2748094	+12302	+2844		0.2642935	+14185	+2842		0.2540618	1.4
15	0.3527682	+85	+2323		0.3411338	+1928	+2366		0.3297360	+3785	+2395		0.3185777	+5631	+2420		0.3076614	+7458	+2440		0.2969891	1.5
16	0.3974803	+593	+1830		0.3857661	+393	+1889		0.3742408	+803	+1898		0.3629091	+434	+1977		0.3517751	+1269	+2015		0.3408426	1.6
17	0.4416429	+1021	+1369		0.4300163	+37	+1427		0.4185324	+1487	+1486		0.4071971	+1538	+1538		0.3960157	+242	+1552		0.3849932	1.7
18	0.4847839	+14097	+934		0.4733988	+1281	+1000		0.4620957	+11623	+1062		0.4509078	+10331	+1122		0.4398321	+9002	+1178		0.4288742	1.8
19	0.5265152	+17166	+845		0.5154752	+1818	+613		0.5044965	+13192	+678		0.4935854	+14090	+740		0.4827483	+12979	+759		0.4719910	1.9
20	0.5665299	+19430	+2009		0.5559418	+18729	+274		0.5453811	+17928	+830		0.5348540	+17079	+397		0.5243666	+16183	+457		0.5139249	2.0
21	0.6045966	+2111	-73		0.5945355	+697	-15		0.5844729	+1983	+44		0.5744147	+1934	+99		0.5643666	+1807	+189		0.5543344	2.1
22	0.6405522	+22141	-305		0.6310719	+21790	-282		0.6215664	+21392	-199		0.6120410	+20947	-146		0.6025009	+20455	-95		0.5929514	2.2
23	0.6742937	+22651	-488		0.6654293	+22467	-442		0.6565207	+22237	-395		0.6475726	+21965	-348		0.6385897	+21640	-301		0.6295767	2.3
24	0.7057701	+23274	-657		0.6975400	+22879	-586		0.6892513	+22698	-547		0.6809079	+22472	-508		0.6725139	+22309	-466		0.6640733	2.4
25	0.7349741	+23436	-725		0.7273828	+23300	-692		0.7197223	+23346	-688		0.7119960	+23242	-685		0.7042472	+23215	-590		0.6963594	2.5
26	0.7619345	+23939	-829		0.7549747	+23925	-762		0.7479387	+24026	-755		0.7408292	+23926	-707		0.7336490	+23945	-680		0.7264008	2.6
27	0.7867090	+24105	-884		0.7803641	+24298	-803		0.7739389	+24512	-782		0.7674356	+24201	-707		0.7608563	+24264	-687		0.7542033	2.7
28	0.8093776	+24061	-834		0.8036237	+24084	-819		0.7977879	+24057	-802		0.7918719	+24019	-787		0.7858772	+24140	-767		0.7798058	2.8
29	0.8300371	+19006	-826		0.8248449	+19335	-815		0.8195712	+19650	-803		0.8142172	+19049	-791		0.8087841	+20231	-778		0.8032732	2.9
30	0.8487961	+17843	-802		0.8441326	+18199	-796		0.8393895	+18342	-788		0.8345676	+18871	-778		0.8296679	+19188	-771		0.8246911	3.0
31	0.8657708	+16643	-769		0.8616004	+17008	-764		0.8573536	+17365	-769		0.8530309	+17714	-755		0.8486329	+18054	-750		0.8441599	3.1
32	0.8810812	+15426	-725		0.8773674	+15796	-724		0.8735812	+16160	-722		0.8697228	+16517	-719		0.8657925	+16867	-717		0.8617905	3.2
33	0.8948490	+14225	-678		0.8915548	+14588	-678		0.8881928	+14949	-678		0.8847630	+15306	-678		0.8812654	+15657	-676		0.8777002	3.3
34	0.9071943	+13050	-628		0.9042834	+13404	-629		0.9013095	+13755	-630		0.8982726	+14104	-632		0.8951726	+14452	-632		0.8920093	3.4
35	0.9182346	+11929	-576		0.9156716	+12258	-579		0.9130507	+12595	-581		0.9103718	+12929	-583		0.9076346	+13289	-585		0.9048389	3.5
36	0.9280829	+10842	-524		0.9258340	+11160	-527		0.9235324	+11481	-531		0.9211778	+11803	-534		0.9187697	+12124	-537		0.9163080	3.6
37	0.9368470	+9824	-474		0.9348804	+10123	-478		0.9328660	+10423	-483		0.9308035	+10726	-485		0.9286924	+11030	-489		0.9265325	3.7
38	0.9446287	+8870	-427		0.9429145	+9147	-431		0.9411573	+9428	-434		0.9393566	+9709	-438		0.9375121	+9993	-442		0.9356235	3.8
39	0.9515234	+7992	-381		0.9500339	+8238	-385		0.9485058	+8495	-389		0.9469388	+8756	-393		0.9453325	+9020	-397		0.9436866	3.9
40	0.9576199	+7163	-339		0.9563295	+7395	-343		0.9550048	+7632	-347		0.9536454	+7871	-351		0.9522509	+8112	-354		0.9508210	4.0
41	0.9630001	+6407	-300		0.9618856	+6619	-304		0.9607406	+6833	-308		0.9595649	+7032	-311		0.9583581	+7275	-315		0.9571197	4.1
42	0.9677396	+5717	-265		0.9667798	+5909	-268		0.9657931	+6108	-270		0.9647792	+6309	-275		0.9637378	+6498	-279		0.9626686	4.2
43	0.9719074	+5088	-233		0.9710831	+5259	-236		0.9702353	+5435	-232		0.9693635	+5612	-242		0.9684676	+5794	-243		0.9675471	4.3
44	0.9755664	+4519	-204		0.9748605	+4871	-206		0.9741340	+4827	-209		0.9733866	+4987	-212		0.9726180	+5140	-215		0.9718278	4.4
45	0.9787735	+4002	-178		0.9781708	+4140	-180		0.9775500	+4278	-183		0.9769110	+4420	-185		0.9762535	+4568	-188		0.9755771	4.5
46	0.9815804	+3559	-153		0.9810671	+3652	-157		0.9805382	+3783	-159		0.9799934	+3999	-161		0.9794324	+4036	-164		0.9788551	4.6
47	0.9840334	+3123	-134		0.9835975	+3228	-136		0.9831481	+3358	-138		0.9826849	+3449	-140		0.9822077	+3564	-142		0.9817163	4.7
48	0.9861741	+2749	-116		0.9858051	+2844	-118		0.9854242	+2938	-119		0.9850315	+3037	-121		0.9846266	+3136	-123		0.9842095	4.8
49	0.9880399	+2418	-100		0.9877283	+2500	-102		0.9874065	+2594	-103		0.9870744	+2669	-104		0.9867319	+2754	-106		0.9863787	4.9
50	0.9896639	+2120	-86		0.9894015	+2191	-87		0.9891304	+2265	-88		0.9888504	+2340	-90		0.9885614	+2417	-91		0.9882633	5.0
51	0.9910759	+1890	-75		0.9908556	+1922	-75		0.9906278	+1955	-76		0.9903924	+2031	-78		0.9901492	+2117	-78		0.9898982	5.1
52	0.9923019	+1626	-64		0.9921175	+1879	-64		0.9919267	+1733	-66		0.9917293	+1791	-67		0.9915253	+1842	-67		0.9913146	5.2
53	0.9933653	+1420	-53		0.9932115	+1498	-56		0.9930521	+1515	-56		0.9928871	+1564	-57		0.9927165	+1615	-57		0.9925401	5.3
54	0.9942867	+1240	-48		0.9941587	+1278	-47		0.9940260	+1319	-48		0.9938885	+1361	-48		0.9937462	+1405	-49		0.9935989	5.4
55	0.9950841	+1078	-39		0.9949781	+1114	-41		0.9948680	+1160	-41		0.9947538	+1187	-42		0.9946354	+1223	-42		0.9945129</	



u	p = 3.5		p = 3.6		p = 3.7		p = 3.8		p = 3.9		p = 4.0		u	
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$
0	—	0	0.000000	—	0	0.000000	—	0	0.000000	—	0	0.000000	—	0
0.1	+2555	+11	0.000114	+2104	+6	0.000087	+1725	+6	0.000066	+1419	+5	0.000051	+1162	+4
0.2	+9364	+114	0.002332	+8108	+95	0.001902	+7912	+75	0.001551	+6959	+64	0.001264	+5213	+63
0.3	+18968	+395	0.012658	+17033	+336	0.010729	+15259	+288	0.009086	+13647	+246	0.007689	+12181	+210
0.4	+28997	+543	0.040017	+28745	+473	0.034815	+24635	+664	0.030268	+22604	+675	0.026295	+20717	+505
0.5	+37843	+1414	0.094121	+35473	+1269	0.083516	+33347	+1143	0.074054	+31280	+1026	0.066518	+29275	+921
0.6	+45357	+2016	0.183698	+42874	+1845	0.165564	+43255	+1690	0.149120	+39442	+1543	0.134219	+36519	+1409
0.7	+51711	+2575	0.315349	+46019	+2595	0.287877	+47419	+2223	0.262628	+45356	+2060	0.239439	+41937	+1910
0.8	+57373	+3096	0.493010	+47103	+2855	0.454909	+46024	+2654	0.411942	+45741	+2321	0.386596	+44552	+2363
0.9	+62106	+3562	0.717864	+45875	+3159	0.668465	+45531	+3031	0.622097	+45550	+2378	0.578605	+45546	+2729
1.0	+65983	+3983	0.998593	+42458	+3376	0.927852	+42983	+3241	0.870352	+43377	+3108	0.815960	+43629	+2977
1.1	+68917	+4352	1.301780	+37455	+3416	1.230227	+38459	+3310	1.161984	+39330	+3293	1.096944	+40071	+3096
1.2	+70900	+4659	1.652422	+31373	+3322	1.571061	+32731	+3246	1.492946	+33977	+3169	1.417999	+35110	+3089
1.3	+71901	+4892	2.034437	+24051	+3113	1.944626	+26277	+3070	1.857885	+27752	+3020	1.774164	+29195	+2971
1.4	+71916	+5082	2.441133	+17194	+2820	2.344468	+19510	+2805	2.250606	+21162	+2761	2.159525	+22747	+2757
1.5	+70922	+5235	2.865623	+11858	+2465	2.763820	+12777	+2472	2.664489	+14476	+2475	2.567633	+16136	+2479
1.6	+68924	+5398	3.301149	+7466	+2077	3.195949	+6505	+2102	3.092851	+8221	+2124	2.991877	+10338	+2141
1.7	+66000	+5563	3.741341	+4066	+1676	3.634428	+3525	+1715	3.529230	+4442	+1752	3.425784	+3562	+1783
1.8	+62106	+5737	4.180397	+2184	+1284	4.073335	+1640	+1325	3.967606	+2599	+1376	3.863253	+641	+1410
1.9	+57373	+5912	4.613193	+1064	+912	4.507388	+824	+965	4.402548	+1377	+1016	4.298724	+297	+1065
2.0	+52700	+616	5.035348	-1426	+576	4.932017	-1324	+627	4.829313	-1219	+630	4.727289	-1107	+731
2.1	+48100	+216	5.443237	-1714	+270	5.343400	-1633	+322	5.243885	-1547	+377	5.144747	-1457	+428
2.2	+43600	-42	5.833977	-1935	+10	5.738450	-1571	+66	5.642983	-1947	+110	5.547626	-1740	+160
2.3	+39200	-264	6.205382	-2085	-269	6.114789	-2040	-102	6.024034	-2493	-114	5.933165	-1940	-71
2.4	+34900	-425	6.555902	-2181	-333	6.470688	-2157	-342	6.385132	-2626	-362	6.299274	-2090	-266
2.5	+30700	-553	6.884561	-2234	-520	6.805008	-2220	-485	6.724970	-2292	-449	6.644483	-2181	-412
2.6	+26600	-646	7.190877	-2248	-622	7.117124	-2233	-660	7.042781	-2334	-562	6.967876	-2251	-530
2.7	+22600	-713	7.474790	-2219	-691	7.406857	-2214	-664	7.338258	-2369	-642	7.269018	-2310	-616
2.8	+18700	-761	7.736593	-2166	-732	7.674396	-2170	-713	7.611486	-2394	-692	7.547884	-2297	-673
2.9	+14900	-765	7.976858	-2074	-766	7.920234	-2097	-736	7.862874	-2416	-721	7.804793	-2363	-765
3.0	+11200	-766	8.196383	-1970	-750	8.145105	-2064	-741	8.093086	-2431	-728	8.040339	-2404	-717
3.1	+7600	-742	8.396128	-1870	-735	8.344922	-1996	-729	8.302987	-2449	-721	8.255331	-2344	-711
3.2	+4100	-713	8.577173	-1784	-709	8.535733	-1937	-705	8.493587	-2461	-699	8.450742	-2280	-694
3.3	+600	-675	8.740674	-1694	-674	8.703673	-1883	-682	8.666000	-2468	-669	8.627658	-2213	-668
3.4	-300	-633	8.887828	-1613	-633	8.854930	-1844	-633	8.821400	-2461	-632	8.787237	-2130	-631
3.5	-600	-587	9.019845	-1539	-588	8.990713	-1821	-589	8.960992	-2449	-590	8.930680	-2048	-591
3.6	-900	-539	9.137923	-1477	-542	9.112225	-1809	-544	9.085983	-2430	-540	9.059195	-1970	-548
3.7	-1200	-492	9.243234	-1422	-495	9.220648	-1804	-498	9.197565	-2406	-501	9.173981	-1894	-503
3.8	-1500	-445	9.336903	-1372	-449	9.317123	-1805	-452	9.296891	-2371	-458	9.276203	-1820	-459
3.9	-1800	-401	9.420006	-1326	-404	9.402741	-1812	-408	9.385069	-2327	-411	9.366986	-1750	-415
4.0	-2100	-368	9.493553	-1284	-362	9.478534	-1825	-366	9.463150	-2274	-369	9.447396	-1684	-373
4.1	-2400	-319	9.558495	-1245	-322	9.545471	-1842	-320	9.532121	-2214	-339	9.518441	-1624	-333
4.2	-2700	-282	9.616742	-1209	-286	9.604453	-1862	-289	9.592904	-2149	-293	9.581063	-1569	-296
4.3	-3000	-249	9.666018	-1176	-252	9.656313	-1884	-255	9.646353	-2084	-268	9.636135	-1514	-262
4.4	-3300	-218	9.710159	-1145	-221	9.701819	-1908	-224	9.693254	-2019	-227	9.684463	-1459	-236
4.5	-3600	-191	9.748817	-1116	-193	9.741670	-1934	-196	9.734327	-1957	-199	9.726785	-1404	-209
4.6	-3900	-166	9.782613	-1089	-168	9.776505	-1961	-171	9.770227	-1907	-174	9.763775	-1349	-176
4.7	-4200	-144	9.812105	-1064	-146	9.806900	-1989	-143	9.801548	-1857	-151	9.796044	-1294	-163
4.8	-4500	-125	9.837799	-1041	-127	9.833376	-2017	-129	9.828825	-1807	-131	9.824144	-1239	-133
4.9	-4800	-108	9.860149	-1019	-109	9.856401	-2045	-111	9.852542	-1757	-113	9.848570	-1184	-114
5.0	-5100	-93	9.879559	-998	-94	9.876392	-2074	-96	9.873129	-1707	-97	9.869769	-1129	-99
5.1	-5400	-79	9.896393	-978	-81	9.893723	-2102	-82	9.890971	-1657	-83	9.888136	-1074	-84
5.2	-5700	-68	9.910971	-959	-69	9.908727	-2130	-70	9.906412	-1607	-71	9.904027	-1019	-73
5.3	-6000	-58	9.923579	-941	-56	9.921697	-2157	-60	9.919756	-1557	-61	9.917754	-964	-62
5.4	-6300	-50	9.934167	-924	-51	9.932894	-2184	-51	9.931271	-1507	-52	9.929596	-909	-53
5.5	-6600	-42	9.943861	-908	-43	9.942550	-2210	-43	9.941196	-1457	-44	9.939797	-854	-45
5.6	-6900	-36	9.951953	-893	-36	9.950864	-2236	-37	9.949738	-1407	-38	9.948574	-799	-38
5.7	-7200	-30	9.958917	-879	-36	9.958015	-2261	-31	9.957081	-1357	-32	9.956115	-744	-38
5.8	-7500	-26	9.964904	-866	-27	9.964158	-2285	-27	9.963386	-1307	-27	9.962587	-689	-27
5.9	-7800	-22	9.970044	-854	-22	9.969430	-2308	-23	9.968794	-1257	-23	9.968134	-634	-23
6.0	-8100	-19	9.974453	-843	-19	9.973950	-2330	-19	9.973427	-1207	-19	9.972885	-579	-20
6.1	-8400	-16	9.978231	-833	-16	9.977819	-2351	-16	9.977391	-1157	-16	9.976947	-524	-17
6.2	-8700	-13	9.981465	-824	-14	9.981130	-2371	-14	9.980781	-1107	-14	9.980418	-469	-14





$u$	$p = 3.5$		$p = 3.6$		$p = 3.7$		$p = 3.8$		$p = 3.9$		$p = 4.0$		$u$		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
6.2	-455 -10	-13	.9981465	-408 -11	-14	.9981130	-432 -12	-14	.9980781	-496 -11	-14	.9980418	-609 -13	-14	6.2
6.3	-393 -9	-11	.9984231	-408 -10	-12	.9983959	-412 -11	-12	.9983675	-424 -10	-12	.9983380	-437 -11	-12	6.3
6.4	-338 -6	-9	.9986594	-345 -9	-10	.9986374	-364 -10	-10	.9986145	-363 -9	-10	.9985905	-373 -10	-10	6.4
6.5	-290 -8	-8	.9988612	-298 -8	-8	.9988435	-306 -9	-8	.9988250	-312 -8	-8	.9988057	-319 -9	-8	6.5
6.6	-247 -7	-7	.9990332	-256 -7	-7	.9990191	-260 -8	-7	.9990043	-267 -7	-7	.9989888	-273 -8	-7	6.6
6.7	-211 -6	-6	.9991799	-219 -6	-6	.9991687	-223 -7	-6	.9991568	-228 -6	-6	.9991444	-234 -7	-6	6.7
6.8	-180 -5	-5	.9993047	-186 -5	-6	.9992958	-190 -6	-6	.9992865	-195 -5	-6	.9992766	-200 -6	-6	6.8
6.9	-154 -4	-4	.9994110	-157 -4	-4	.9994041	-163 -5	-4	.9993967	-167 -4	-4	.9993889	-171 -5	-4	6.9
7.0	-132 -4		.9995013	-135 -4		.9994959	-139 -4		.9994902	-143 -4		.9994841	-146 -4		7.0
7.1	-113		.9995781	-117		.9995740	-120		.9995695	-122		.9995647	-124		7.1
7.2	-97		.9996432	-100		.9996401	-103		.9996367	-103		.9996330	-105		7.2
7.3	-83		.9996985	-86		.9996962	-88		.9996936	-87		.9996908	-89		7.3
7.4	-71		.9997453	-72		.9997436	-74		.9997417	-74		.9997396	-75		7.4
7.5	-60		.9997850	-61		.9997838	-62		.9997824	-63		.9997809	-64		7.5
7.6	-60		.9998186	-61		.9998178	-62		.9998168	-63		.9998157	-64		7.6
7.7	-42		.9998471	-43		.9998466	-44		.9998459	-44		.9998451	-46		7.7
7.8	-36		.9998711	-36		.9998708	-36		.9998704	-37		.9998699	-39		7.8
7.9	-31		.9998915	-31		.9998914	-30		.9998911	-32		.9998907	-32		7.9
8.0	-26		.9999086	-27		.9999086	-26		.9999085	-26		.9999083	-27		8.0
8.1	-22		.9999230	-22		.9999231	-22		.9999231	-24		.9999231	-23		8.1
8.2	-18		.9999352	-18		.9999354	-19		.9999355	-20		.9999355	-19		8.2
8.3	-15		.9999456	-16		.9999458	-16		.9999459	-17		.9999460	-16		8.3
8.4	-13		.9999542	-12		.9999544	-14		.9999546	-14		.9999547	-13		8.4
8.5	-11		.9999616	-10		.9999618	-12		.9999620	-12		.9999621	-11		8.5
8.6	-9		.9999678	-9		.9999680	-10		.9999682	-10		.9999684	-9		8.6
8.7	-8		.9999730	-8		.9999732	-9		.9999734	-9		.9999735	-8		8.7
8.8	-7		.9999773	-6		.9999775	-8		.9999777	-8		.9999779	-7		8.8
8.9	-6		.9999810	-6		.9999812	-6		.9999814	-7		.9999815	-6		8.9
9.0	-6		.9999841	-6		.9999843	-6		.9999844	-6		.9999846	-6		9.0
9.1	-4		.9999866	-4		.9999868	-4		.9999870	-4		.9999871	-4		9.1
9.2			.9999888			.9999890			.9999891			.9999893			9.2
9.3			.9999906			.9999908			.9999909			.9999910			9.3
9.4			.9999922			.9999923			.9999924			.9999925			9.4
9.5			.9999934			.9999935			.9999937			.9999938			9.5
9.6			.9999945			.9999946			.9999947			.9999948			9.6
9.7			.9999954			.9999955			.9999956			.9999956			9.7
9.8			.9999962			.9999962			.9999963			.9999964			9.8
9.9			.9999968			.9999968			.9999969			.9999970			9.9
10.0			.9999973			.9999974			.9999975			.9999976			10.0
10.1			.9999978			.9999978			.9999979			.9999980			10.1
10.2			.9999981			.9999981			.9999982			.9999983			10.2
10.3			.9999984			.9999984			.9999985			.9999986			10.3
10.4			.9999987			.9999987			.9999988			.9999988			10.4
10.5			.9999989			.9999989			.9999990			.9999990			10.5
10.6			.9999991			.9999991			.9999991			.9999991			10.6
10.7			.9999992			.9999993			.9999993			.9999993			10.7
10.8			.9999994			.9999994			.9999994			.9999994			10.8
10.9			.9999995			.9999995			.9999995			.9999995			10.9
11.0			.9999996			.9999996			.9999996			.9999996			11.0
11.1			.9999996			.9999996			.9999997			.9999997			11.1
11.2			.9999997			.9999997			.9999997			.9999997			11.2
11.3			.9999997			.9999997			.9999998			.9999998			11.3
11.4			.9999998			.9999998			.9999998			.9999998			11.4
11.5			.9999998			.9999998			.9999998			.9999998			11.5
11.6			.9999999			.9999999			.9999999			.9999999			11.6
11.7			.9999999			.9999999			.9999999			.9999999			11.7
11.8			.9999999			.9999999			.9999999			.9999999			11.8
11.9			.9999999			.9999999			.9999999			.9999999			11.9
12.0			.9999999			.9999999			.9999999			.9999999			12.0
12.1			.9999999			.9999999			.9999999			.9999999			12.1
12.2			1.0000000			1.0000000			1.0000000			1.0000000			12.2



u	p = 4.0		p = 4.1		p = 4.2		p = 4.3		p = 4.4		p = 4.5	
	I(u, p)	$\frac{\delta_u^2}{\delta_p^4}$	I(u, p)	$\frac{\delta_u^2}{\delta_p^4}$	I(u, p)	$\frac{\delta_u^2}{\delta_p^4}$	I(u, p)	$\frac{\delta_u^2}{\delta_p^4}$	I(u, p)	$\frac{\delta_u^2}{\delta_p^4}$	I(u, p)	u
0.0	0.000000	0	0.000000	0	0.000000	0	0.000000	0	0.000000	0	0.000000	0.0
0.1	0.000039	+951	0.000029	+779	0.000022	+836	0.000017	+519	0.000013	+428	0.000010	0.1
0.2	0.0001029	+4484	0.0000837	+3861	0.0000680	+3802	0.0000552	+2827	0.0000449	+2416	0.0000364	0.2
0.3	0.0006503	+10851	0.0005496	+9648	0.0004640	+8593	0.0003914	+7592	0.0003301	+6723	0.0002782	0.3
0.4	0.0028282	+18960	0.0019803	+17304	0.0017168	+15769	0.0014872	+14347	0.0012876	+13020	0.0011140	0.4
0.5	0.0058103	+27349	0.0051414	+25496	0.0045465	+23725	0.0040177	+22066	0.0035481	+20493	0.0031313	0.5
0.6	0.0120727	+34809	0.0108521	+33020	0.0097487	+31260	0.0087518	+29540	0.0078519	+27884	0.0070402	0.6
0.7	0.0218160	+40474	0.0198648	+38971	0.0180769	+37451	0.0164399	+35917	0.0149421	+34480	0.0135726	0.7
0.8	0.0356063	+43877	0.0327746	+42823	0.0301502	+41701	0.0277197	+40625	0.0254703	+39580	0.0233901	0.8
0.9	0.0537843	+44922	0.0499667	+44350	0.0463936	+43763	0.0430520	+43045	0.0399289	+42243	0.0370120	0.9
1.0	0.0764545	+43768	0.0715978	+43766	0.0670133	+43844	0.0626888	+43426	0.0586123	+43104	0.0547721	1.0
1.1	0.1035000	+40657	0.0976045	+41191	0.0919974	+41556	0.0866681	+41817	0.0816061	+41973	0.0768013	1.1
1.2	0.1364142	+35130	0.1277293	+37087	0.1211371	+37835	0.1148291	+38522	0.1087972	+39104	0.1030328	1.2
1.3	0.1731414	+28054	0.1615578	+31740	0.1540601	+32870	0.1468425	+33902	0.1398987	+34943	0.1332226	1.3
1.4	0.2071200	+24263	0.1985603	+25702	0.1902701	+27069	0.1822461	+28358	0.1748485	+29502	0.1669811	1.4
1.5	0.2473249	+17746	0.2381330	+19307	0.2291870	+20909	0.2204853	+22256	0.2120265	+23643	0.2038087	1.5
1.6	0.2893044	+11292	0.2796364	+12871	0.2701848	+14428	0.2609501	+16048	0.2519328	+17425	0.2431328	1.6
1.7	0.3324121	+6121	0.3224269	+6670	0.3126254	+8203	0.3030097	+9717	0.2935816	+11211	0.2843428	1.7
1.8	0.3760319	+1010	0.3658844	+1094	0.3558863	+1248	0.3460410	+1585	0.3363515	+1935	0.3268205	1.8
1.9	0.4195965	+698	0.4094315	+659	0.3993820	+631	0.3894520	+598	0.3796453	+558	0.3699657	1.9
2.0	0.4625996	-990	0.4525482	-845	0.4425797	-767	0.4326986	-647	0.4229092	-527	0.4132157	2.0
2.1	0.5046037	-1349	0.4947804	-1078	0.4850097	-985	0.4752965	-863	0.4656452	-744	0.4560603	2.1
2.2	0.5452429	-1859	0.5357441	-1581	0.5262708	-1401	0.5168278	-1215	0.5074196	-1031	0.4980508	2.2
2.3	0.5842225	-2495	0.5751261	-2136	0.5660318	-1825	0.5569439	-1651	0.5478669	-1484	0.5388050	2.3
2.4	0.6213156	-3280	0.6126818	-2808	0.6040303	-2499	0.5953649	-2201	0.5866899	-1919	0.5780091	2.4
2.5	0.6563584	-4217	0.6482307	-3629	0.6400690	-3305	0.6318768	-3022	0.6236579	-2739	0.6154157	2.5
2.6	0.6892441	-5309	0.6816507	-4650	0.6740105	-4383	0.6663265	-4104	0.6586021	-3826	0.6508402	2.6
2.7	0.7199162	-6559	0.7128717	-5665	0.7057707	-5377	0.6986160	-5098	0.6914103	-4819	0.6841563	2.7
2.8	0.7483609	-7969	0.7418682	-6830	0.7353125	-6499	0.7286959	-6217	0.7220206	-5935	0.7152889	2.8
2.9	0.7746007	-9532	0.7686532	-8248	0.7626385	-7864	0.7565583	-7580	0.7504144	-7296	0.7442085	2.9
3.0	0.7986875	-11259	0.7932705	-9914	0.7877844	-9400	0.7822303	-9093	0.7766097	-8785	0.7709239	3.0
3.1	0.8206964	-13188	0.8157892	-11644	0.8108126	-11099	0.8057674	-10654	0.8006547	-10209	0.7954756	3.1
3.2	0.8407203	-15339	0.8362974	-13509	0.8318063	-12854	0.8272475	-12509	0.8226218	-12164	0.8179298	3.2
3.3	0.8588649	-17701	0.8548976	-15689	0.8508644	-15009	0.8467656	-14564	0.8426016	-14119	0.8383729	3.3
3.4	0.8752444	-20284	0.8717020	-18181	0.8680967	-17092	0.8644287	-16398	0.8606983	-15704	0.8569056	3.4
3.5	0.8899777	-23099	0.8868283	-20917	0.8836198	-19890	0.8803520	-19022	0.8770252	-18154	0.8736393	3.5
3.6	0.9031860	-26157	0.9003975	-24089	0.8975539	-23052	0.8946551	-22184	0.8917010	-21316	0.8886915	3.6
3.7	0.9149894	-29469	0.9125301	-27509	0.9100200	-26314	0.9074589	-25446	0.9048466	-24578	0.9021829	3.7
3.8	0.9255057	-33037	0.9233449	-31169	0.9211377	-29825	0.9188837	-29057	0.9165828	-28189	0.9142345	3.8
3.9	0.9348487	-36871	0.9329571	-35087	0.9310232	-33805	0.9290469	-32847	0.9270278	-31889	0.9249656	3.9
4.0	0.9431269	-40981	0.9414766	-39389	0.9397882	-38847	0.9380615	-37989	0.9362962	-37131	0.9344918	4.0
4.1	0.9504428	-45369	0.9490078	-43109	0.9475388	-42109	0.9460354	-41251	0.9444973	-40393	0.9429241	4.1
4.2	0.9568925	-50037	0.9556488	-47189	0.9543749	-46569	0.9530703	-45711	0.9517346	-44853	0.9503676	4.2
4.3	0.9625655	-55085	0.9614910	-51569	0.9603896	-51109	0.9592611	-50251	0.9581050	-49393	0.9569211	4.3
4.4	0.9675441	-60513	0.9666186	-56389	0.9656694	-56009	0.9646962	-55151	0.9636987	-54293	0.9626766	4.4
4.5	0.9719041	-66441	0.9711093	-61609	0.9702937	-61569	0.9694571	-61711	0.9685991	-61853	0.9677194	4.5
4.6	0.9757148	-72869	0.9750342	-67329	0.9743354	-67529	0.9736182	-67671	0.9728824	-67813	0.9721276	4.6
4.7	0.9790388	-79807	0.9784576	-73549	0.9778607	-73809	0.9772477	-73951	0.9766185	-74093	0.9759727	4.7
4.8	0.9819330	-87245	0.9814381	-79369	0.9809296	-79629	0.9804072	-79771	0.9798706	-79913	0.9793197	4.8
4.9	0.9844484	-95183	0.9840282	-85789	0.9835962	-86089	0.9831522	-86231	0.9826959	-86373	0.9822272	4.9
5.0	0.9866310	-103621	0.9862751	-92809	0.9859091	-93109	0.9855328	-93251	0.9851459	-93393	0.9847483	5.0
5.1	0.9885217	-112659	0.9882212	-99429	0.9879119	-99709	0.9875937	-99841	0.9872665	-99983	0.9869301	5.1
5.2	0.9901569	-122307	0.9899037	-106649	0.9896431	-107009	0.9893749	-107141	0.9890989	-107283	0.9888151	5.2
5.3	0.9915690	-132555	0.9913563	-114469	0.9911373	-114929	0.9909118	-115061	0.9906797	-115193	0.9904408	5.3
5.4	0.9927868	-143403	0.9926086	-122909	0.9924250	-123569	0.9922359	-123701	0.9920411	-123843	0.9918407	5.4
5.5	0.9938354	-154851	0.9936866	-132049	0.9935331	-132809	0.9933750	-132941	0.9932119	-133083	0.9930441	5.5
5.6	0.9947372	-166907	0.9946132	-141809	0.9944852	-142249	0.9943533	-142381	0.9942173	-142523	0.9940772	5.6
5.7	0.9955117	-179563	0.9954087	-152169	0.9953023	-152389	0.9951925	-152521	0.9950793	-152663	0.9949626	5.7
5.8	0.9961761	-192819	0.9960907	-163129	0.9960025	-163009	0.9959115	-163141	0.9958175	-163283	0.9957206	5.8
5.9	0.9967452	-206675	0.9966747	-174689	0.9966018	-174829	0.9965265	-174961	0.9964487	-175093	0.9963685	5.9
6.0	0.9972323	-221131	0.9971742	-186849	0.9971141	-187469	0.9970519	-187601	0.9969877	-187743	0.9969215	6.0



u	p = 4.5		p = 4.6		p = 4.7		p = 4.8		p = 4.9		p = 5.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
0			-0000000			-0000000			-0000000			-0000000			0			
1	+344		-0000008	+279		-0000006	+227		-0000004	+185		-0000003	+150		-0000002	+122	1	
2	+2094 +2156	+16	-0000295	+1781 +1997	+13	-0000239	+1492 +1844	+13	-0000193	+1278 +1692	+10	-0000156	+1084 +1550	+8	-0000126	+920 +1415	+8	2
3	+6940 +1099	+60	-0002343	+5240 +1950	+68	-0001971	+4615 +1948	+69	-0001658	+4058 +1886	+48	-0001393	+3568 +1823	+43	-0001170	+3133 +1739	+35	3
4	+11815 +1228	+227 +5	-0009631	+10639 +1324	+190 +6	-0008318	+9679 +1384	+177 +4	-0007182	+8738 +1443	+159	-0006198	+7575 +1498	+133	-0005347	+6855 +1522	+112	4
5	+18916 +219	+473 +6	-0027618	+17489 +395	+421 +6	-0024344	+16127 +569	+374 +5	-0021444	+14860 +705	+334 +5	-0018878	+13670 +938	+297	-0016609	+12859 +321	+284	5
6	+26236 -703	+802 +6	-0063087	+24580 +3058	+726 +6	-0056497	+23144 +2939	+658 +6	-0050565	+21655 +159	+635 +5	-0045228	+20285 -13	+630 +4	-0040430	+18354 +1363	+489	6
7	+32551 -1423	+1185 +4	-0123216	+31833 -1249	+1058 +7	-0111794	+29833 -1071	+999 +8	-0101371	+28361 -905	+918 +8	-0091866	+26210 -741	+844 +5	-0083205	+25511 -680	+775	7
8	+38944 -1855	+1579 +7	-0214678	+38757 -1728	+1469 +8	-0196924	+35451 -1593	+1868 +6	-0180538	+34182 -1460	+1271 +6	-0165423	+32909 -1321	+1183 +6	-0151491	+31468 -1192	+1100	8
9	+41832 -2029	+1945 +5	-0342896	+47453 -1968	+1832 +5	-0317505	+54871 -1874	+1724 +5	-0293837	+53843 -1784	+1621 +5	-0271789	+52378 -1692	+1523 +6	-0251265	+50729 -1583	+1430	9
1.0	+42031 1977	+2250 +4	-0511569	+49193 1957	+2140 +4	-0477557	+41817 1928	+2034 +4	-0445579	+40970 1891	+1931 +4	-0415533	+40255 -1354	+1832 +4	-0387318	+39487 -1754	+1739	1.0
1.1	+42023 -1772	+2469 +2	-0722434	+41975 -1797	+2371 +2	-0679226	+41885 -1809	+2273 +2	-0638291	+41806 -1808	+2177 +2	-0599532	+41298 -1808	+2034 +2	-0562858	+40211 -1788	+1942	1.1
1.2	+39493 -1456	+2591 +1	-0975275	+39962 -1511	+2506 +1	-0922730	+40244 -1558	+2424 +1	-0872609	+40434 -1601	+2341 +1	-0824829	+40533 -1628	+2259	-0779309	+40547 -1652	+2178	1.2
1.3	+35057 -1199	+2813 +1	-1268078	+36437 -1199	+2548 +1	-1206478	+37095 -1244	+2483 +1	-1147361	+37061 -1244	+2415 +1	-1090659	+35140 -1090	+2350	-1036307	+35381 -1103	+2290	1.3
1.4	+30691 -730	+2641 +1	-1597318	+31737 -813	+2496 +1	-1527321	+32702 -822	+2450	-1459774	+33586 -870	+2402	-1394629	+34387 -1037	+2352	-1331836	+33109 -1103	+2300	1.4
1.5	+24965 -330	+2388 +1	-1958295	+26224 -154	+2363	-1880866	+27417 -540	+2338	-1805773	+26541 -595	+2306	-1732986	+26397 -703	+2275	-1662474	+30584 -703	+2242	1.5
1.6	+18839 -76	+2168 +1	-235496	+20247 -166	+2164	-2261828	+21287 -227	+2142	-2180313	+21287 -306	+2142	-2100940	+21204 -387	+2129	-2023696	+25279 -455	+2110	1.6
1.7	+12677 +180	+1904 +1	-2752944	+14114 +115	+1913	-2664373	+15522 -40	+1921	-2577723	+16893 +30	+1923	-2492998	+18204 -91	+1924	-2410197	+19519 166	+1924	1.7
1.8	+675 +376	+1811 +1	-3174506	+905 +321	+1833	-3082440	+950 +286	+1852	-2992026	+1085 +213	+1688	-2903280	+1223 +145	+1683	-2816217	+13363 -86	+1635	1.8
1.9	+1045 +525	+1303 +1	-3604164	+2399 +481	+1337	-3510008	+3746 +441	+1368	-3417215	+5092 +388	+1393	-3325815	+6427 +344	+1415	-3235830	+7753 +294	+1438	1.9
2.0	-4054 +615	+899 +1	-4036221	-2817 +688	+1037	-3941322	-1568 +551	+1073	-3847496	-814 +621	+1107	-3754777	+945 +486	+1137	-3663196	+2207 +446	+1169	2.0
2.1	-8541 +665	+707 +1	-4465461	-7445 +645	+742	-4371068	-6331 +634	+788	-4277463	-6199 +611	+826	-4184684	-4061 +682	+864	-4092769	-2893 +536	+898	2.1
2.2	-12363 +634	+436 +1	-4887256	-11425 +478	+479	-4794483	-10480 +478	+521	-4702231	-9473 +30	+561	-4610540	-8465 +538	+600	-4519449	-7437 +592	+637	2.2
2.3	-15501 +664	+135 +1	-5297626	-14729 +664	+236	-5207438	-13929 +670	+276	-5117526	-18099 +604	+317	-5027931	-12241 +658	+356	-4938692	-11359 +651	+393	2.3
2.4	-17975 +628	-18 +1	-5693267	-17369 +638	+21	-5606464	-17369 +641	+21	-5519723	-16059 +648	+99	-5433081	-16339 +640	+137	-5346576	-14630 +647	+178	2.4
2.5	-19821 +583	-196 +1	-6071539	-19388 +639	-159	-5988762	-18886 +699	-124	-5905861	-18372 +608	-88	-5828272	-17828 +618	-63	-5739830	-17254 +625	-18	2.5
2.6	-21084 +818	-340 +1	-6430443	-20781 +634	-310	-6352174	-20445 +850	-278	-6273627	-20077 +858	-245	-6194835	-19679 +862	-213	-6115830	-19253 +892	-181	2.6
2.7	-21335 +436	-457 +1	-6768566	-21458 +646	-428	-6695141	-21458 +822	-400	-6621316	-21221 +938	-372	-6547119	-20610 +916	-345	-6472577	-20670 +928	-313	2.7
2.8	-22139 +383	-641 +1	-7085031	-22070 +490	-619	-7016654	-21981 +417	-493	-6947784	-21869 +437	-473	-6878442	-21727 +449	-446	-6808654	-21651 +467	-422	2.8
2.9	-22943 +317	-600 +1	-7379426	-22077 +536	-680	-7316186	-22091 +555	-563	-7252383	-22078 +566	-642	-7188038	-22044 +586	-623	-7123170	-21985 +401	-601	2.9
3.0	-21637 +257	-637 +1	-7651744	-21792 +574	-622	-7593627	-21846 +287	-606	-7534904	-21921 +305	-691	-7475590	-21975 +320	-575	-7415701	-22008 +336	-557	3.0
3.1	-20975 +202	-655 +1	-7902310	-21152 +516	-642	-7849222	-21314 +231	-630	-7795504	-21459 +247	-619	-7741167	-21586 +259	-606	-7686224	-21695 +270	-623	3.1
3.2	-20111 +149	-654 +1	-8131724	-20539 +161	-647	-8083503	-20551 +173	-637	-8034645	-20750 +189	-629	-7985158	-20935 +199	-619	-7935052	-21107 +219	-611	3.2
3.3	-19104 +107	-643 +1	-8340799	-19365 +116	-636	-8297233	-19651 +128	-631	-8253036	-19852 +140	-625	-8208124	-20085 +150	-610	-8162773	-20300 +165	-610	3.3
3.4	-17999 +61	-620 +1	-8530509	-18275 +76	-615	-8491347	-18583 +84	-614	-8451570	-18890 +94	-608	-8411185	-19081 +108	-606	-8370194	-19332 +119	-600	3.4
3.5	-16815 +32	-600 +1	-8701944	-17113 +141	-588	-8666908	-17406 +43	-587	-8631284	-17603 +59	-585	-8595075	-17873 +69	-583	-8558283	-18245 +77	-580	3.5
3.6	-15008 -63	-584 +1	-8856266	-15910 +13	-584	-8825063	-16211 +18	-555	-8793305	-16507 +18	-555	-8760992	-16796 +24	-554	-8728127	-17084 +32	-553	3.6
3.7	-14398 -17	-516 +1	-8994676	-14693 -19	-617	-8967007	-14998 -7	-518	-8938819	-15294 -1	-519	-8910113	-15590 +6	-520	-8880887	-15880 +13	-521	3.7
3.8	-13205 -37	-478 +1	-9118388	-13501 -37	-478	-9093953	-13792 -28	-479	-9069039	-14085 -28	-481	-9043644	-14375 +16	-482	-9017767	-14665 +11	-484	3.8
3.9	-12049 -50	-435 +1	-9228599	-12330 -42	-437	-9207107	-12614 -44	-440	-9185174	-12295 -39	-442	-9162800	-13170 -34	-444	-9139982	-13461 -32	-447	3.9
4.0	-10939 -59	-393 +1	-9326480	-11207 -55	-396	-9307647	-11477 -55	-400	-9288413	-11746 -52	-403	-9268777	-12017 -49	-406	-9248736	-12289 +46	-409	4.0
4.1	-9878 -63	-354 +1	-9413154	-10130 -63	-367	-9396710	-10391 -63	-360	-9379906	-10659 -60	-364	-9362773	-10904 -59	-367	-9345201	-11161 -55	-370	4.1
4.2	-8909 -67	-317 +1	-9459689	-9058 -66	-320	-9475382	-9307 -66	-324	-9460751	-9662 -66	-327	-9445793	-9847 -65	-330	-9430505	-10088 -63	-333	4.2
4.3	-7980 -69	-282 +1	-9557090	-8105 -69	-285	-9544684	-8418 -69	-289	-9531989	-8632 -69	-293	-9519002	-8863 -69	-295	-9505721	-9078 -67	-299	4.3
4.4	-7127 -72	-249 +1	-9616296	-7324 -71	-255	-9605573	-7522 -72	-256	-9594595	-7725 -71	-250	-9583358	-7930 -71	-262	-9571859	-8137 -69	-266	4.4
4.5	-6348 -68	-219 +1	-9668178	-6524 -68	-222	-9658940	-6708 -68	-225	-9649476	-6889 -68	-228	-9639784	-7078 -68	-232	-9629860	-7284 -70	-235	4.5
4.6	-5631 -65	-192 +1	-9713536	-5799 -65	-195	-9705601	-5966 -65	-198	-9697468	-6122 -67	-201	-9689134	-6290 -66	-204	-9680597	-6461 -70	-207	4.6
4.7	-4931 -62	-168 +1	-9753102	-5129 -62	-170	-9746306	-5211 -62	-172	-9739338	-5421 -65	-175	-9732194	-5572 -64	-177	-9724873	-5728 -66	-180	4.7
4.8	-4395 -58	-146 +1	-9787542	-4522 -60	-148	-9781740	-4534 -60	-150	-9775787	-4797 -62	-152	-9769682	-4924 -59	-155	-9763421	-5091 -64	-168	4.8
4.9	-3864 -54	-126 +1	-9817460	-3992 -56	-128	-9812520	-4087 -54	-130	-9807449	-4215 -57	-132	-9802246	-4333 -58	-134	-9796908	-4458 -61	-136	4.9
5.0	-3393 -50	-109 +1	-9843398	-3492 -53	-111	-9839203	-3594 -60	-113	-9834896	-3700 -53	-114	-9830475	-3808 -63	-118	-9825937	-3917 -58	-118	5.0
5.1	-2968 -45	-93 +1	-9865844	-3057 -49	-95	-9862292	-3148 -47	-97	-9858643	-3240 -49	-96	-9854896	-3334 -50	-100	-9851049	-3430 -54	-102	5.1
5.2	-2593 -44	-80 +1	-9885233	-2671														





$u$	$p = 4.5$		$p = 4.6$		$p = 4.7$		$p = 4.8$		$p = 4.9$		$p = 5.0$		$u$					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
6.0	-815 -18	-22	.9968531	-899 -18	-22	.9967825	-892 -20	-23	.9967098	-887 -20	-23	.9966349	-914 -22	-23	.9965577	-939 -20	-23	6.0
6.1	-700 -16	-18	.9973366	-719 -16	-18	.9972785	-741 -18	-19	.9972185	-765 -18	-19	.9971566	-782 -20	-19	.9970929	-805 -18	-19	6.1
6.2	-600 -14	-15	.9977482	-618 -15	-15	.9977004	-635 -16	-15	.9976510	-652 -16	-15	.9976001	-671 -16	-16	.9975476	-689 -18	-16	6.2
6.3	-514 -12	-13	.9980980	-527 -13	-13	.9980588	-542 -14	-13	.9980183	-557 -14	-13	.9979765	-572 -15	-13	.9979334	-588 -14	-14	6.3
6.4	-440 -10	-11	.9983951	-452 -12	-11	.9983630	-463 -12	-11	.9983299	-476 -12	-11	.9982957	-489 -14	-11	.9982604	-500 -13	-12	6.4
6.5	-376 -9	-9	.9986470	-385 -11	-9	.9986209	-395 -10	-9	.9985939	-407 -11	-9	.9985660	-418 -12	-9	.9985371	-425 -12	-10	6.5
6.6	-320 -8	-7	.9988604	-328 -10	-7	.9988392	-338 -9	-7	.9988172	-345 -10	-7	.9987945	-356 -10	-8	.9987710	-362 -10	-8	6.6
6.7	-272 -7	-6	.9990410	-279 -9	-6	.9990238	-286 -8	-6	.9990060	-293 -9	-6	.9989876	-302 -9	-7	.9989685	-309 -9	-7	6.7
6.8	-230 -6	-5	.9991937	-237 -8	-5	.9991799	-242 -7	-5	.9991655	-251 -8	-6	.9991506	-255 -7	-8	.9991351	-263 -8	-6	6.8
6.9	-198 -5	-5	.9993227	-202 -7	-5	.9993115	-206 -6	-5	.9992999	-213 -7	-5	.9992879	-215 -6	-5	.9992755	-222 -6	-5	6.9
7.0	-166 -4	-4	.9994315	-171 -5	-4	.9994225	-174 -5	-4	.9994132	-179 -6	-5	.9994036	-182 -5	-5	.9993936	-188 -5	-5	7.0
7.1	-142 -4	-4	.9995232	-145 -4	-4	.9995161	-148 -4	-4	.9995086	-152 -5	-4	.9995009	-155 -4	-4	.9994929	-158 -4	-4	7.1
7.2	-121 -4	-4	.9996004	-123 -4	-4	.9995947	-125 -5	-4	.9995888	-128 -4	-4	.9995827	-131 -4	-4	.9995763	-132 -4	-4	7.2
7.3	-102	-4	.9996653	-104	-4	.9996608	-104	-4	.9996562	-108	-4	.9996514	-112	-4	.9996463	-112	-4	7.3
7.4	-86	-4	.9997200	-88	-4	.9997165	-88	-4	.9997128	-91	-4	.9997089	-94	-4	.9997049	-94	-4	7.4
7.5	-72	-4	.9997658	-75	-4	.9997631	-75	-4	.9997602	-78	-4	.9997572	-78	-4	.9997541	-80	-4	7.5
7.6	-60	-4	.9998043	-63	-4	.9998022	-64	-4	.9998000	-64	-4	.9997977	-66	-4	.9997952	-65	-4	7.6
7.7	-50	-4	.9998366	-53	-4	.9998350	-54	-4	.9998333	-55	-4	.9998314	-54	-4	.9998295	-55	-4	7.7
7.8	-42	-4	.9998637	-45	-4	.9998624	-45	-4	.9998611	-45	-4	.9998597	-44	-4	.9998582	-47	-4	7.8
7.9	-35	-4	.9998863	-37	-4	.9998854	-38	-4	.9998844	-37	-4	.9998833	-37	-4	.9998822	-40	-4	7.9
8.0	-30	-4	.9999052	-30	-4	.9999045	-32	-4	.9999038	-31	-4	.9999030	-32	-4	.9999022	-33	-4	8.0
8.1	-26	-4	.9999211	-24	-4	.9999206	-27	-4	.9999200	-26	-4	.9999194	-27	-4	.9999188	-27	-4	8.1
8.2	-22	-4	.9999343	-20	-4	.9999340	-23	-4	.9999336	-22	-4	.9999332	-23	-4	.9999327	-23	-4	8.2
8.3	-19	-4	.9999454	-17	-4	.9999451	-19	-4	.9999448	-19	-4	.9999445	-20	-4	.9999442	-19	-4	8.3
8.4	-16	-4	.9999546	-15	-4	.9999544	-16	-4	.9999542	-16	-4	.9999540	-17	-4	.9999538	-16	-4	8.4
8.5	-14	-4	.9999623	-13	-4	.9999622	-13	-4	.9999620	-13	-4	.9999619	-14	-4	.9999617	-13	-4	8.5
8.6	-11	-4	.9999687	-11	-4	.9999686	-11	-4	.9999685	-11	-4	.9999684	-12	-4	.9999683	-11	-4	8.6
8.7	-9	-4	.9999740	-9	-4	.9999739	-9	-4	.9999739	-9	-4	.9999739	-10	-4	.9999738	-9	-4	8.7
8.8	-7	-4	.9999784	-7	-4	.9999784	-8	-4	.9999784	-8	-4	.9999784	-8	-4	.9999784	-8	-4	8.8
8.9	-6	-4	.9999821	-5	-4	.9999821	-6	-4	.9999821	-7	-4	.9999821	-7	-4	.9999821	-7	-4	8.9
9.0	-5	-4	.9999852	-5	-4	.9999852	-5	-4	.9999852	-8	-4	.9999853	-5	-4	.9999853	-8	-4	9.0
9.1	-4	-4	.9999877	-4	-4	.9999878	-4	-4	.9999878	-5	-4	.9999878	-4	-4	.9999878	-4	-4	9.1
9.2		-4	.9999898		-4	.9999899		-4	.9999899		-4	.9999899		-4	.9999899		-4	9.2
9.3		-4	.9999916		-4	.9999917		-4	.9999917		-4	.9999917		-4	.9999917		-4	9.3
9.4		-4	.9999930		-4	.9999931		-4	.9999931		-4	.9999932		-4	.9999932		-4	9.4
9.5		-4	.9999942		-4	.9999942		-4	.9999943		-4	.9999944		-4	.9999944		-4	9.5
9.6		-4	.9999952		-4	.9999952		-4	.9999953		-4	.9999954		-4	.9999954		-4	9.6
9.7		-4	.9999961		-4	.9999961		-4	.9999961		-4	.9999962		-4	.9999962		-4	9.7
9.8		-4	.9999968		-4	.9999968		-4	.9999968		-4	.9999968		-4	.9999969		-4	9.8
9.9		-4	.9999973		-4	.9999974		-4	.9999974		-4	.9999974		-4	.9999974		-4	9.9
10.0		-4	.9999978		-4	.9999978		-4	.9999978		-4	.9999979		-4	.9999979		-4	10.0
10.1		-4	.9999982		-4	.9999982		-4	.9999982		-4	.9999983		-4	.9999983		-4	10.1
10.2		-4	.9999985		-4	.9999985		-4	.9999986		-4	.9999986		-4	.9999986		-4	10.2
10.3		-4	.9999988		-4	.9999988		-4	.9999988		-4	.9999988		-4	.9999988		-4	10.3
10.4		-4	.9999990		-4	.9999990		-4	.9999990		-4	.9999990		-4	.9999990		-4	10.4
10.5		-4	.9999992		-4	.9999992		-4	.9999992		-4	.9999992		-4	.9999992		-4	10.5
10.6		-4	.9999993		-4	.9999994		-4	.9999994		-4	.9999994		-4	.9999994		-4	10.6
10.7		-4	.9999994		-4	.9999995		-4	.9999995		-4	.9999995		-4	.9999995		-4	10.7
10.8		-4	.9999995		-4	.9999996		-4	.9999996		-4	.9999996		-4	.9999996		-4	10.8
10.9		-4	.9999996		-4	.9999996		-4	.9999996		-4	.9999996		-4	.9999997		-4	10.9
11.0		-4	.9999997		-4	.9999997		-4	.9999997		-4	.9999997		-4	.9999997		-4	11.0
11.1		-4	.9999997		-4	.9999997		-4	.9999998		-4	.9999998		-4	.9999998		-4	11.1
11.2		-4	.9999998		-4	.9999998		-4	.9999998		-4	.9999998		-4	.9999998		-4	11.2
11.3		-4	.9999998		-4	.9999998		-4	.9999998		-4	.9999998		-4	.9999998		-4	11.3
11.4		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	11.4
11.5		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	11.5
11.6		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	11.6
11.7		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	11.7
11.8		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	11.8
11.9		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4	1.0000000		-4	11.9
12.0		-4	.9999999		-4	.9999999		-4	.9999999		-4	.9999999		-4			-4	12.0
12.1		-4	1.0000000		-4	1.0000000		-4	1.0000000		-4	1.0000000		-4			-4	12.1



u	p = 5.0		p = 5.2		p = 5.4		p = 5.6		p = 5.8		p = 6.0		u
	I(u, p)	$\frac{\delta^2 u}{\delta u^2}$ $\frac{\delta^2 p}{\delta p^2}$	I(u, p)	$\frac{\delta^2 u}{\delta u^2}$ $\frac{\delta^2 p}{\delta p^2}$	I(u, p)	$\frac{\delta^2 u}{\delta u^2}$ $\frac{\delta^2 p}{\delta p^2}$	I(u, p)	$\frac{\delta^2 u}{\delta u^2}$ $\frac{\delta^2 p}{\delta p^2}$	I(u, p)	$\frac{\delta^2 u}{\delta u^2}$ $\frac{\delta^2 p}{\delta p^2}$	I(u, p)	$\frac{\delta^2 u}{\delta u^2}$ $\frac{\delta^2 p}{\delta p^2}$	
0.0	0.000000	—	0.000000	—	0.000000	—	0.000000	—	0.000000	—	0.000000	—	0
0.1	0.000002	+122	0.000001	+80	0.000001	+82	0.000000	+85	0.000000	+22	0.000000	—	0.1
0.2	0.000126	+920 +24	0.000082	+681 +16	0.000054	+470 +10	0.000035	+835 +7	0.000022	+239 +6	0.000015	+4	0.2
0.3	0.001170	+8133 +142	0.000824	+2393 +101	0.000578	+1838 +73	0.000405	+1395 +46	0.000283	+1056 +36	0.000197	+24	0.3
0.4	0.005347	+7086 +157	0.003963	+5739 +48	0.002939	+4395 +26	0.002171	+3672 +19	0.001600	+2922 +14	0.001177	+8	0.4
0.5	0.016609	+12859 +1060	0.012834	+10554 +835	0.009893	+8823 +656	0.007609	+7341 +514	0.005839	+6079 +403	0.004471	+24	0.5
0.6	0.040430	+9291 +54	0.032253	+7472 +46	0.025672	+5950 +36	0.020388	+4224 +22	0.016157	+3043 +15	0.012777	+8	0.6
0.7	0.083205	+25511 +3105	0.068144	+22812 +1306	0.055688	+14287 +1298	0.045411	+9797 +82	0.036951	+7194 +54	0.030010	+37	0.7
0.8	0.151491	+31488 +440	0.126846	+28865 +284	0.105989	+26315 +206	0.088378	+20860 +146	0.073545	+15477 +96	0.061080	+61	0.8
0.9	0.251265	+49279 +6725	0.214418	+34029 +8035	0.182606	+31705 +4411	0.155204	+25988 +3855	0.131659	+27095 +5359	0.111472	+37	0.9
1.0	0.387318	+6852 +67	0.336009	+37798 +6230	0.290931	+33953 +6567	0.251420	+34001 +4896	0.216868	+31977 +4404	0.186721	+24	1.0
1.1	0.562858	+40911 +1973	0.495398	+39934 +7372	0.435211	+38715 +6612	0.381636	+43780 +6992	0.334054	+49378 +9415	0.291887	+61	1.1
1.2	0.779309	+40547 +8712	0.694721	+49324 +8075	0.618209	+39830 +7460	0.549157	+39069 +6570	0.486976	+38083 +6307	0.431101	+43	1.2
1.3	1.036307	+4786 +127	0.934378	+49361 +8587	0.841037	+41608 +8658	0.755747	+39214 +7626	0.677981	+35884 +7010	0.607226	+48	1.3
1.4	1.331836	+35109 +9202	1.213100	+38315 +8784	1.103149	+27212 +8354	1.001551	+27814 +7917	0.907870	+28137 +7478	0.821666	+14	1.4
1.5	1.662474	+30584 +8962	1.528137	+32343 +8673	1.402473	+33927 +8361	1.285169	+35032 +8030	1.175896	+33966 +7685	1.074308	+10	1.5
1.6	2.023696	+28279 +8428	1.875519	+27462 +8282	1.735624	+29407 +8090	1.603819	+31110 +7873	1.479887	+32568 +7832	1.363586	+8	1.6
1.7	2.410197	+18319 +7602	2.250363	+21977 +7853	2.098182	+24232 +7675	1.953579	+26320 +7470	1.816446	+28800 +7325	1.686647	+6	1.7
1.8	2.816217	+13592 +6776	2.647184	+16189 +6840	2.484992	+18657 +6669	2.329668	+20982 +6863	2.181208	+23147 +6827	2.039574	+4	1.8
1.9	3.235830	+7733 +6749	3.060194	+10984 +6900	2.890459	+12990 +6018	2.726739	+16845 +6098	2.569117	+17683 +6149	2.417645	+3	1.9
2.0	3.663196	+2207 +4672	3.483568	+4724 +4887	3.308826	+7221 +6071	3.139155	+9674 +6223	2.974709	+12067 +6349	2.815612	+2	2.0
2.1	4.092769	+2823 +3391	3.911666	+2833 +3891	3.734414	+1813 +4084	3.561245	+4179 +4291	3.392368	+6528 +4472	3.227964	+1	2.1
2.2	4.519449	+7357 +2548	4.339215	+929 +27	4.161815	+3168 +3092	3.987514	+566 +26	3.816555	+1257 +3568	3.649160	+1	2.2
2.3	4.938692	+1159 +2077	4.761435	+928 +21	4.586505	+7813 +2152	4.412817	+5635 +2415	4.241999	+3605 +2660	4.073841	+1	2.3
2.4	5.346576	+14630 +700	5.174129	+13695 +990	5.002672	+11492 +1271	4.832485	+9741 +1540	4.663838	+622 +18	4.496986	+1	2.4
2.5	5.739830	+17254 +71	5.573728	+16019 +206	5.407832	+14677 +476	5.242412	+13266 +739	5.077732	+11765 +994	4.914045	+9	2.5
2.6	6.115830	+19253 +726	5.957308	+18513 +471	5.798315	+17261 +219	5.639103	+18183 +506	5.479921	+14828 +274	5.321013	+6	2.6
2.7	6.472577	+20670 +1263	6.322575	+20906 +1036	6.171537	+19230 +806	6.019692	+18551 +680	5.867266	+17367 +855	5.714486	+4	2.7
2.8	6.808654	+21561 +1687	6.667837	+21149 +1491	6.525529	+20633 +1296	6.381930	+20011 +1088	6.237244	+19292 +883	6.091672	+2	2.8
2.9	7.123170	+21956 +2007	6.991950	+21796 +1842	6.858888	+21510 +1669	6.724157	+21128 +1496	6.587930	+20550 +1317	6.450386	+1	2.9
3.0	7.415701	+22098 +2231	7.294267	+22011 +2091	7.170737	+21928 +1952	7.045255	+21789 +1807	6.917966	+21991 +1658	6.789021	+1	3.0
3.1	7.686224	+21696 +2371	7.574573	+21850 +2284	7.460658	+21938 +2149	7.344594	+21989 +2029	7.226501	+21892 +1905	7.106503	+1	3.1
3.2	7.935052	+21107 +2440	7.833019	+21399 +2356	7.728631	+21632 +2269	7.612974	+21796 +2173	7.513144	+21884 +2076	7.402238	+1	3.2
3.3	8.162773	+20300 +2444	8.070066	+20658 +2386	7.974972	+21041 +2321	7.877558	+21351 +2250	7.777893	+21666 +2174	7.676054	+1	3.3
3.4	8.370194	+19332 +2403	8.286415	+19603 +2363	8.200272	+20233 +2319	8.111811	+20618 +2266	8.021082	+20957 +2213	7.928139	+1	3.4
3.5	8.558283	+18243 +2321	8.482961	+18771 +2299	8.405339	+19262 +2272	8.325446	+19726 +2239	8.243314	+20189 +2202	8.158979	+1	3.5
3.6	8.728127	+17084 +2213	8.660736	+17683 +2203	8.591144	+18174 +2189	8.519361	+18680 +2173	8.445407	+19139 +2130	8.369301	+1	3.6
3.7	8.880887	+15880 +2082	8.820873	+16433 +2083	8.758775	+17007 +2081	8.694596	+17545 +2077	8.628341	+18062 +2067	8.560018	+1	3.7
3.8	9.017767	+14683 +1938	8.964557	+15238 +1948	8.909399	+15812 +1966	8.852286	+16364 +1939	8.793213	+16899 +1981	8.732180	+1	3.8
3.9	9.139982	+13461 +1785	9.093003	+14024 +1803	9.044221	+14582 +1818	8.993622	+16134 +1828	8.941195	+15679 +1838	8.886930	+1	3.9
4.0	9.248736	+12289 +1634	9.207425	+12851 +1634	9.164461	+13376 +1673	9.119824	+15188 +1890	9.073498	+14456 +1705	9.025467	+1	4.0
4.1	9.345201	+11191 +1480	9.309015	+11681 +1503	9.271325	+12201 +1526	9.232108	+14225 +1548	9.191343	+13247 +1507	9.149012	+1	4.1
4.2	9.430505	+10088 +1333	9.398926	+10576 +1339	9.365988	+11071 +1383	9.331667	+13069 +1406	9.295941	+12077 +1428	9.258786	+1	4.2
4.3	9.505721	+9078 +1193	9.478260	+9533 +1216	9.449580	+9995 +1243	9.419657	+12065 +1268	9.388467	+10941 +1291	9.355985	+1	4.3
4.4	9.571859	+8187 +1062	9.548061	+8537 +1086	9.523177	+8966 +1111	9.497182	+10925 +1183	9.470052	+9867 +1160	9.441763	+1	4.4
4.5	9.629860	+7284 +939	9.609305	+7649 +963	9.587788	+8043 +967	9.565284	+9846 +1010	9.541770	+8858 +1034	9.517222	+1	4.5
4.6	9.680597	+6461 +826	9.662900	+6810 +848	9.644356	+7171 +871	9.624940	+8740 +894	9.604630	+7918 +917	9.583404	+1	4.6
4.7	9.724873	+5728 +723	9.709685	+6045 +744	9.693753	+6277 +765	9.677056	+7676 +787	9.659572	+7051 +808	9.641279	+1	4.7
4.8	9.763421	+5061 +630	9.750425	+5344 +649	9.736780	+5537 +669	9.722466	+6540 +688	9.707463	+6251 +709	9.691752	+1	4.8
4.9	9.796908	+4458 +546	9.785821	+4712 +564	9.774170	+4975 +582	9.761936	+5426 +600	9.749103	+4639 +619	9.735651	+1	4.9
5.0	9.825937	+3917 +473	9.816505	+4141 +488	9.806585	+4373 +504	9.796161	+4815 +520	9.785217	+4266 +538	9.773735	+1	5.0
5.1	9.851049	+3430 +407	9.843048	+3628 +421	9.834627	+3833 +483	9.825771	+4050 +450	9.816465	+3784 +465	9.806694	+1	5.1
5.2	9.872731	+2997 +349	9.865963	+3173 +361	9.858834	+3354 +374	9.851331	+3543 +387	9.843441	+3340 +400	9.835150	+1	5.2
5.3	9.891416	+2612 +298	9.885706	+2794 +309	9.879687	+2923 +320	9.873348	+3089 +332	9.866677	+2961 +348	9.859663	+1	5.3
5.4	9.907489	+2247 +254	9.902685	+2406 +264	9.897617	+2543 +273	9.892276	+2688 +283	9.886652	+2540 +294	9.880734	+1	5.4
5.5	9.921291	+1979 +216	9.917259	+2084 +224	9.913004	+2207 +232	9.908516	+2335 +241	9.903787	+2063 +249	9.898807	+1	5.5
5.6	9.933123	+1706 +183	9.929749	+1896 +199	9.926184	+1896 +197	9.922423	+2019 +204	9.918457	+1783 +212	9.914279	+1	5.6
5.7	9.943249	+1472 +153	9.940433	+1690 +161	9.937455	+1650 +167	9.934311	+1744 +173	9.930994	+1543 +160	9.927497	+1	5.7
5.8	9.951903	+1271 +131	9.949557	+1543 +135	9.947076	+1421 +140	9.944455	+1603 +146	9.941688	+1357 +152	9.938769	+1	5.8
5.9	9.959286	+1092 +110	9.957338	+1156 +114	9.955276	+1222 +118	9.953096	+1291 +123	9.950794	+1065 +127	9.948364	+1	5.9
6.0	9.965577	+939 +93	9.963963	+992 +96	9.962254	+1050 +88	9.960446	+1119 +103	9.958535	+912 +107	9.956517	+1	6.0



u	p = 6.0		p = 6.2		p = 6.4		p = 6.6		p = 6.8		p = 7.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
0.0	—	—	.0000000	—	—	.0000000	—	—	.0000000	—	—	.0000000	—	—	0.0
0.1	+15	—	.0000000	+9	—	.0000000	+6	—	.0000000	+4	—	.0000000	+2	—	0.1
0.2	+187	—	.0000009	+119	—	.0000006	+83	—	.0000004	+59	—	.0000002	+41	—	0.2
0.3	+798	+23	.0000137	+909	+18	.0000095	+448	+12	.0000066	+333	+7	.0000045	+248	+4	0.3
0.4	+885	—	.0000864	+746	—	.0000632	+523	—	.0000461	+418	—	.0000336	+323	—	0.4
0.5	+2314	+110	.0003416	+1825	+82	.0002605	+1436	+60	.0001982	+1126	+46	.0001505	+878	+86	0.5
0.6	+1182	+9	.0010083	+1064	+7	.0007941	+939	+39	.0006242	+820	+14	.0004897	+716	+113	0.6
0.7	+6012	+312	.0024322	+4115	+244	.0019674	+2739	+189	.0015883	+2144	+146	.0012798	+1513	+113	0.7
0.8	+1217	+18	.0050630	+1107	+14	.0041888	+1071	+12	.0034591	+921	+31	.0028512	+783	+29	0.8
0.9	+8927	+686	.00942504	+2286	+48	.0079464	+4333	+285	.0066910	+3553	+211	.0056240	+2587	+169	0.9
1.0	+995	+31	.0160474	+1040	+26	.0137672	+1050	+21	.0117905	+921	+31	.0100802	+783	+29	1.0
1.1	+1337	+1256	.0254600	+1206	+35	.0221696	+1401	+53	.0192720	+1844	+85	.0167254	+2319	+129	1.1
1.2	+876	+41	.0381000	+1189	+39	.0336166	+1353	+58	.0296129	+1258	+59	.0260443	+997	+39	1.2
1.3	+1459	+30	.0542983	+1354	+31	.0484769	+1624	+80	.0432121	+1104	+30	.0384599	+808	+30	1.3
1.4	+38315	+6312	.0742504	+1638	+29	.0669950	+1991	+21	.063581	+1311	+22	.0542984	+1018	+22	1.4
1.5	+1627	+16	.0980050	+1461	+9	.0892763	+1847	+11	.0812083	+1399	+13	.0737647	+1043	+15	1.5
1.6	+35192	+7041	.1254657	+1825	+60	.1152825	+2507	+60	.1057802	+1971	+44	.0969295	+1513	+113	1.6
1.7	+1423	+4	.1564022	+1331	+12	.1448388	+1366	+6	.1339542	+1067	+13	.1237268	+828	+9	1.7
1.8	+29866	+7174	.1904701	+1714	+22	.1776497	+2301	+21	.1654849	+1667	+22	.1539620	+1228	+22	1.8
1.9	+25144	+6761	.2272343	+2263	+26	.2133206	+3097	+23	.2000202	+2287	+22	.1873276	+1681	+19	1.9
2.0	+927	+40	.2661960	+1161	+54	.2513822	+1531	+24	.2371240	+1044	+35	.2234233	+783	+29	2.0
2.1	+8844	+4625	.3068187	+1511	+25	.2913169	+1928	+24	.2763015	+1498	+23	.2617807	+1096	+22	2.1
2.2	+182	-25	.3485528	+184	-25	.3325355	+2433	+21	.3170238	+1907	+22	.3018870	+1366	+22	2.2
2.3	+3485	+3763	.3908571	+270	-22	.3746400	+3289	+21	.3587518	+2462	+22	.3432098	+1889	+23	2.3
2.4	+338	-22	.4332174	+360	-22	.4169628	+4329	+21	.4009562	+3258	+22	.3852176	+2592	+23	2.4
2.5	+1836	+2899	.4751598	+539	-19	.4590626	+5699	+21	.4431353	+4298	+22	.4273991	+5292	+22	2.5
2.6	+6085	+2039	.5162617	+806	-7	.5004964	+7488	+21	.4848279	+8972	+22	.4692778	+1193	+19	2.6
2.7	+245	-14	.5561574	+1093	-10	.5408751	+9991	+21	.5256233	+12443	+22	.5104231	+1681	+19	2.7
2.8	+10091	+1240	.5945418	+1311	+88	.5798684	+16555	+21	.5651672	+20048	+22	.5504581	+27301	+22	2.8
2.9	+891	+9	.6311703	+1749	-480	.6172064	+22307	-279	.6031649	+29807	-279	.5890640	+40908	-279	2.9
3.0	+13495	+512	.6658575	+2267	-1344	.6526785	+30997	-1183	.6393810	+41498	-1022	.6259813	+55928	-860	3.0
3.1	+612	-7	.6984728	+2920	-7	.6861309	+41498	-968	.6736383	+55928	-968	.6610089	+75928	-1226	3.1
3.2	+1827	-131	.7289361	+3826	-22	.7174623	+54329	-2163	.7058135	+73928	-1633	.6940014	+100428	-1611	3.2
3.3	+607	-4	.7572122	+4933	-18	.7466182	+71498	-2799	.7358326	+95928	-2181	.7248647	+129928	-1723	3.3
3.4	+18472	-682	.7833043	+6326	-207	.7735859	+95928	-2799	.7636656	+129928	-1943	.7535508	+170428	-1866	3.4
3.5	+298	-23	.8072484	+8326	-2088	.7983875	+129928	-2163	.7893202	+170428	-2008	.7800521	+224928	-1949	3.5
3.6	+1827	-131	.8291071	+11093	-207	.8210747	+170428	-2163	.8128362	+224928	-2022	.8043956	+290428	-1970	3.6
3.7	+18472	-682	.8489641	+14933	-2058	.8417226	+224928	-2163	.8342792	+290428	-1994	.8266364	+370928	-1968	3.7
3.8	+607	-4	.8669188	+19933	-1954	.8604242	+290428	-1945	.8537351	+370928	-1983	.8468527	+470428	-1918	3.8
3.9	+10213	-1844	.8830820	+26933	-1848	.8772862	+370928	-1849	.8713056	+470428	-1847	.8651502	+590928	-1842	3.9
4.0	+14992	-1718	.8975718	+36933	-1728	.8924240	+470428	-1737	.8871026	+590928	-1743	.8816070	+740928	-1746	4.0
4.1	+13771	-1584	.9105097	+49933	-1600	.9059582	+590928	-1814	.9012453	+740928	-1826	.8963699	+910428	-1633	4.1
4.2	+12675	-1448	.9220184	+66933	-1467	.9180115	+740928	-1465	.9138560	+910428	-1501	.9095504	+1100928	-1516	4.2
4.3	+11421	-1313	.9322190	+88933	-1338	.9287061	+910428	-1353	.9250576	+1100928	-1374	.9212718	+1330928	-1392	4.3
4.4	+10319	-1182	.9412292	+116933	-1203	.9381616	+1100928	-1227	.9349713	+1330928	-1247	.9316563	+1600928	-1267	4.4
4.5	+9277	-1057	.9491617	+156933	-1080	.9464933	+1330928	-1102	.9437146	+1600928	-1124	.9408235	+1930928	-1145	4.5
4.6	+8307	-939	.9561238	+206933	-961	.9538111	+1600928	-984	.9513999	+1930928	-1006	.9488883	+2330928	-1027	4.6
4.7	+7402	-829	.9621258	+270933	-851	.9602185	+1930928	-873	.9581339	+2330928	-894	.9559599	+2800928	-913	4.7
4.8	+6574	-729	.9675311	+350933	-749	.9658121	+2330928	-769	.9640166	+2800928	-789	.9621413	+3330928	-810	4.8
4.9	+5815	-637	.9721561	+446933	-656	.9706816	+2800928	-673	.9691395	+3330928	-694	.9675281	+3930928	-718	4.9
5.0	+5123	-554	.9761699	+560933	-572	.9749091	+3330928	-589	.9735894	+3930928	-607	.9722090	+4600928	-824	5.0
5.1	+4593	-480	.9796443	+696933	-490	.9785696	+3930928	-513	.9774438	+4600928	-628	.9762652	+5330928	-844	5.1
5.2	+3943	-414	.9826446	+856933	-428	.9817313	+4600928	-442	.9807739	+5330928	-437	.9797708	+6130928	-472	5.2
5.3	+3442	-356	.9852294	+1040933	-368	.9844556	+5330928	-381	.9836438	+6130928	-394	.9827926	+7000928	-407	5.3
5.4	+2998	-304	.9874512	+1250933	-315	.9867975	+6130928	-327	.9861111	+7000928	-337	.9853911	+7930928	-349	5.4
5.5	+2601	-259	.9893569	+1486933	-269	.9888062	+7000928	-279	.9882276	+7930928	-289	.9876202	+8930928	-295	5.5
5.6	+2254	-220	.9909881	+1750933	-228	.9905254	+7930928	-237	.9900390	+8930928	-246	.9895280	+10000928	-265	5.6
5.7	+1946	-187	.9923814	+2046933	-194	.9919937	+8930928	-201	.9915860	+10000928	-209	.9911573	+11130928	-216	5.7
5.8	+1677	-157	.9935693	+2376933	-164	.9932453	+10000928	-170	.9929044	+11130928	-176	.9925458	+12330928	-183	5.8
5.9	+1442	-133	.9945801	+2740933	-133	.9943101	+11130928	-143	.9940258	+12330928	-149	.9937266	+13600928	-154	5.9
6.0	+1238	-111	.9954387	+3146933	-118	.9952143	+12330928	-120	.9949778	+13600928	-125	.9947288	+15000928	-130	6.0









u	p = 7.0				p = 7.2				p = 7.4				p = 7.6				p = 7.8				p = 8.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	u	
0	.0000000				.0000000				.0000000				.0000000				.0000000			.0000000	.0	
1	.0000000		+2		.0000000		+1		.0000000		+1		.0000000		0		.0000000		0	.0000000	.1	
2	.0000002	+27			.0000001	+20			.0000001	+14			.0000000	+11			.0000000	+8		.0000000	.2	
3	.0000031	+133		+4	.0000022	+133			.0000016	+72			.0000011	+50			.0000008	+36		.0000005	.3	
4	.0000245	+339		+25	.0000179	+276			.0000130	+224			.0000094	+151			.0000068	+146		.0000049	.4	
5	.0001141	+682			.0000863	+627	+18		.0000652	+408	+13		.0000491	+314	+9		.0000370	+249		.0000277	.5	
6	.0003834	+818			.0002966	+1449	+66		.0002337	+882	+4		.0001819	+602	+39		.0001470	+742	+30	.0001097	.6	
7	.0010293	+223			.0008263	+3134	+179		.0006622	+2600	+142		.0005297	+2160	+112		.0004231	+1378	+88	.0003373	.7	
8	.0023459	+972			.0019268	+8738	+386		.0015798	+654	+8		.0012931	+4891	+317		.0010567	+3519	+209	.0008621	.8	
9	.0047188	+2118			.0039525	+19202	+722		.0033051	+12606	+1015		.0027592	+8077	+603		.0022997	+5609	+418	.0019136	.9	
10	.0086035	+4924			.0073309	+43920	+1189		.0062364	+28249	+1549		.0052968	+17076	+864		.0044917	+9949	+735	.0038030	1.0	
11	.0144916	+10929			.0125361	+23099	+2468		.0108274	+14824	+2134		.0093370	+9261	+1928		.0080395	+5845	+1699	.0069118	1.1	
12	.0228698	+23904			.0200512	+13905	+4296		.0175532	+8639	+2951		.0153433	+5322	+1253		.0133918	+3424	+929	.0116714	1.2	
13	.0341786	+52896			.0303285	+81466	+3941		.0268726	+52995	+3593		.0237760	+32465	+2265		.0210061	+20824	+1699	.0185328	1.3	
14	.0487760	+11022			.0437523	+64920	+4018		.0391905	+38187	+4266		.0355552	+25842	+2584		.0313130	+16929	+1312	.0279322	1.4	
15	.0669098	+23904			.0606081	+18268	+6187		.0548251	+12349	+4850		.0495271	+8077	+603		.0446816	+5322	+1253	.0402573	1.5	
16	.0887002	+52896			.0810620	+12305	+6607		.0739846	+8008	+6306		.0674378	+5322	+1253		.0613916	+3424	+929	.0558169	1.6	
17	.1141335	+11022			.1051504	+81466	+3941		.0967527	+5322	+6001		.0889150	+3424	+929		.0816119	+2082	+1312	.0748176	1.7	
18	.1430658	+23904			.1327792	+18268	+6187		.1230841	+12349	+4850		.1139611	+8077	+603		.1053900	+5322	+1253	.0973498	1.8	
19	.1752351	+52896			.1637331	+12305	+6607		.1528103	+8008	+6306		.1424538	+5322	+1253		.1326493	+3424	+929	.1233817	1.9	
20	.2102797	+11022			.1976906	+81466	+3941		.1856514	+27246	+5437		.1741559	+17921	+864		.1631961	+9949	+735	.1527625	2.0	
21	.2477605	+23904			.2342446	+23099	+2468		.2212350	+14824	+2134		.2087315	+9261	+1928		.1967322	+5845	+1699	.1852333	2.1	
22	.2871845	+52896			.2729256	+13905	+4296		.2591174	+8639	+2951		.2457655	+5322	+1253		.2328733	+3424	+929	.2204429	2.2	
23	.3280295	+11022			.3132245	+81466	+3941		.2988065	+5322	+6001		.2847858	+3424	+929		.2711704	+2082	+1312	.2579672	2.3	
24	.3697653	+23904			.3546161	+18268	+6187		.3397853	+12349	+4850		.3252864	+8077	+603		.3111317	+5322	+1253	.2973317	2.4	
25	.4118742	+52896			.3965794	+12305	+6607		.3815323	+8008	+6306		.3667491	+5322	+1253		.3522447	+3424	+929	.3380329	2.5	
26	.4538668	+11022			.4386149	+81466	+3941		.4235408	+27246	+5437		.4086624	+17921	+864		.3939966	+9949	+735	.3795589	2.6	
27	.4952949	+23904			.4802589	+23099	+2468		.4653341	+14824	+2134		.4505391	+9261	+1928		.4358916	+5845	+1699	.4214084	2.7	
28	.5357606	+52896			.5210941	+13905	+4296		.5064773	+8639	+2951		.4919286	+5322	+1253		.4774658	+3424	+929	.4631062	2.8	
29	.5749219	+11022			.5607566	+81466	+3941		.5465859	+5322	+6001		.5324274	+3424	+929		.5182083	+2082	+1312	.5042155	2.9	
30	.6124956	+23904			.5989401	+18268	+6187		.5853314	+12349	+4850		.5716856	+8077	+603		.5580189	+5322	+1253	.5443474	3.0	
31	.6482569	+52896			.6353967	+12305	+6607		.6224429	+8008	+6306		.6094101	+5322	+1253		.5963130	+3424	+929	.5831665	3.1	
32	.6820382	+11022			.6699360	+81466	+3941		.6577077	+27246	+5437		.6453658	+17921	+864		.6329236	+9949	+735	.6203940	3.2	
33	.7137245	+23904			.7024222	+23099	+2468		.6909684	+14824	+2134		.6793741	+9261	+1928		.6676503	+5845	+1699	.6558086	3.3	
34	.7432494	+52896			.7327696	+13905	+4296		.7221200	+8639	+2951		.7113097	+5322	+1253		.7003479	+3424	+929	.6892441	3.4	
35	.7705892	+11022			.7609377	+81466	+3941		.7511044	+5322	+6001		.7410964	+3424	+929		.7309214	+2082	+1312	.7205870	3.5	
36	.7957570	+23904			.7869251	+18268	+6187		.7779050	+12349	+4850		.7687020	+8077	+603		.7593220	+5322	+1253	.7497711	3.6	
37	.8187970	+52896			.8107641	+12305	+6607		.8025412	+8008	+6306		.7941322	+5322	+1253		.7855414	+3424	+929	.7767733	3.7	
38	.8397785	+11022			.8325143	+81466	+3941		.8250624	+27246	+5437		.8174252	+17921	+864		.8096507	+9949	+735	.8016070	3.8	
39	.8587905	+23904			.8522574	+23099	+2468		.8455420	+14824	+2134		.8386455	+9261	+1928		.8315698	+5845	+1699	.8243167	3.9	
40	.8759367	+52896			.8700917	+13905	+4296		.8640723	+8639	+2951		.8578787	+5322	+1253		.8515117	+3424	+929	.8449722	4.0	
41	.8913309	+11022			.8861276	+81466	+3941		.8807594	+5322	+6001		.8752260	+3424	+929		.8695273	+2082	+1312	.8636633	4.1	
42	.9050932	+23904			.9004831	+18268	+6187		.8957190	+12349	+4850		.8908000	+8077	+603		.8857253	+5322	+1253	.8804944	4.2	
43	.9173467	+52896			.9132808	+12305	+6607		.9090725	+8008	+6306		.9047204	+5322	+1253		.9002234	+3424	+929	.8955804	4.3	
44	.9282146	+11022			.9246442	+81466	+3941		.9209435	+27246	+5437		.9171106	+17921	+864		.9131440	+9949	+735	.9090424	4.4	
45	.9378180	+23904			.9346959	+23099	+2468		.9314553	+14824	+2134		.9280944	+9261	+1928		.9246114	+5845	+1699	.9210045	4.5	
46	.9462739	+52896			.9435548	+13905	+4296		.9407289	+8639	+2951		.9377942	+5322	+1253		.9347489	+3424	+929	.9315910	4.6	
47	.9536945	+11022			.9513355	+81466	+3941		.9488809	+5322	+6001		.9463288	+3424	+929		.9436770	+2082	+1312	.9409239	4.7	
48	.9610853	+23904			.9581464	+18268	+6187		.9560025	+12349	+4850		.9538116	+8077	+603		.9515118	+5322	+1253	.9491212	4.8	
49	.9658454	+52896			.9640894	+12305	+6607		.9622584	+8008	+6306		.9603503	+5322	+1253		.9583633	+3424	+929	.9562956	4.9	
50	.9707663	+11022			.9692593	+81466	+3941		.9676863	+27246	+5437		.9660455	+17921	+864		.9643352	+9949	+735	.9625535	5.0	
51	.9750323	+23904			.9737433	+23099	+2468		.9723967	+14824	+2134		.9709907	+9261	+1928		.9695238	+5845	+1699	.9679941	5.1	
52	.9787205	+52896			.9776216	+13905	+4296		.9764726	+8639	+2951		.9752719	+5322	+1253		.9740180	+3424	+929	.9727093	5.2	
53	.9819007	+11022			.9809669	+81466	+3941		.9799896	+5322	+6001		.9789676	+3424	+929		.9778994	+2082	+1312	.9767836	5.3	
54	.9846360	+23904			.9838448	+18268	+6187		.9830162	+12349	+4850		.9821491	+8077	+603		.9812420	+5322	+1253	.9802938	5.4	
55	.9869828	+52896			.9863145	+12305	+6607		.9856141	+8008	+6306		.9848806	+5322	+1253		.9841128	+3424	+929	.9833096	5.5	
56	.9889916	+11022			.9884287	+81466	+3941		.9878385	+27246	+5437		.9872199	+17921	+864		.9865720	+9949	+735	.9858937	5.6	
57	.9907071	+23904			.9902344	+23099	+2468		.9897384	+14824	+2134		.9892182	+9261	+1928		.9886731	+5845	+1699	.9881021	5.7	
58	.9921689	+52896			.9917730	+13905	+4296		.9913574	+8639	+2951		.9909213	+5322	+1253		.9904640	+3424	+929	.9899847	5.8	
59	.9934120	+11022			.9930814	+81466	+3941		.9927341	+5322	+6001		.9923694	+3424	+929		.9919869	+2082	+1312	.9915857	5.9	
60	.9944669	+23904			.9941915	+18268	+6187		.9939020	+12349	+4850		.9935980	+8077	+603		.9932789	+5322	+1253	.9929440	6.0	









u	p = 8.0		p = 8.2		p = 8.4		p = 8.6		p = 8.8		p = 9.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
6.0	-2085 -42	-163	.9925928	-2181 -45	-169	.9922247	-2392 -47	-175	.9918390	-2416 -50	-182	.9914351	-2536 -50	-169	.9910123	-2680 -52	-196	6.0
6.1	-1785 -38	-137	.9938014	-1878 -40	-143	.9934947	-1973 -43	-148	.9931732	-2073 -43	-154	.9928363	-2178 -45	-160	.9924835	-2283 -43	-165	6.1
6.2	-1527 -34	-115	.9948222	-1685 -37	-129	.9945674	-1687 -37	-124	.9943001	-1772 -40	-129	.9940199	-1860 -41	-134	.9937264	-1954 -42	-139	6.2
6.3	-1390 -31	-96	.9956825	-1567 -32	-109	.9954714	-1438 -33	-104	.9952498	-1511 -35	-108	.9950175	-1589 -36	-112	.9947739	-1667 -38	-117	6.3
6.4	-1105 -29	-80	.9964061	-1163 -27	-88	.9962316	-1223 -30	-87	.9960484	-1285 -31	-90	.9958562	-1349 -33	-94	.9956547	-1419 -35	-97	6.4
6.5	-938 -24	-66	.9970134	-985 -24	-69	.9968696	-1037 -26	-72	.9967185	-1090 -26	-75	.9965600	-1146 -29	-78	.9963937	-1204 -32	-81	6.5
6.6	-792 -21	-56	.9975221	-833 -22	-57	.9974039	-877 -23	-60	.9972796	-921 -24	-62	.9971492	-969 -24	-65	.9970123	-1018 -27	-67	6.6
6.7	-678 -18	-45	.9979475	-703 -20	-47	.9978505	-749 -20	-49	.9977486	-778 -21	-51	.9976415	-818 -21	-53	.9975291	-850 -24	-56	6.7
6.8	-583 -15	-37	.9983024	-602 -17	-39	.9982231	-623 -18	-41	.9981397	-655 -18	-42	.9980520	-688 -19	-44	.9979600	-724 -19	-46	6.8
6.9	-474 -13	-31	.9985981	-498 -14	-32	.9985334	-524 -15	-33	.9984653	-551 -15	-35	.9983937	-579 -16	-36	.9983185	-603 -15	-36	6.9
7.0	-397 -12	-25	.9988440	-418 -11	-26	.9987913	-430 -13	-27	.9987358	-461 -14	-28	.9986775	-484 -13	-30	.9986163	-519 -13	-31	7.0
7.1	-333 -10	-21	.9990481	-349 -10	-21	.9990053	-367 -12	-22	.9989602	-395 -12	-23	.9989129	-405 -11	-24	.9988631	-428 -13	-25	7.1
7.2	-279 -9	-17	.9992173	-292 -9	-17	.9991826	-307 -10	-18	.9991461	-323 -10	-19	.9991077	-338 -10	-20	.9990673	-355 -12	-21	7.2
7.3	-232 -9	-14	.9993573	-244 -7	-14	.9993292	-257 -8	-15	.9992997	-268 -9	-15	.9992686	-282 -9	-16	.9992360	-296 -9	-17	7.3
7.4	-193 -7	-11	.9994729	-203 -6	-12	.9994503	-215 -7	-12	.9994265	-223 -9	-12	.9994014	-234 -8	-13	.9993751	-248 -8	-14	7.4
7.5	-160 -6	-9	.9995683	-168 -6	-9	.9995501	-178 -8	-10	.9995310	-186 -7	-10	.9995108	-194 -7	-11	.9994896	-204 -7	-11	7.5
7.6	-133 -5	-7	.9996469	-139 -5	-7	.9996323	-145 -5	-8	.9996169	-153 -6	-8	.9996007	-161 -6	-9	.9995837	-169 -6	-9	7.6
7.7	-110 -4	-6	.9997115	-115 -4	-6	.9996998	-120 -4	-6	.9996875	-127 -5	-7	.9996745	-133 -5	-7	.9996609	-140 -5	-7	7.7
7.8	-91 -4	-5	.9997646	-95 -4	-5	.9997553	-100 -4	-5	.9997454	-105 -4	-5	.9997351	-109 -4	-5	.9997241	-115 -4	-5	7.8
7.9	-75 -4	-4	.9998082	-79 -4	-4	.9998007	-82 -4	-4	.9997929	-87 -4	-4	.9997846	-90 -4	-4	.9997759	-93 -5	-5	7.9
8.0	-61	-4	.9998438	-65	-4	.9998379	-66	-4	.9998317	-71	-4	.9998251	-74	-4	.9998182	-79	-4	8.0
8.1	-51	-4	.9998730	-53	-4	.9998683	-56	-4	.9998634	-60	-4	.9998581	-66	-4	.9998526	-64	-4	8.1
8.2	-42	-4	.9998969	-44	-4	.9998931	-46	-4	.9998892	-49	-4	.9998851	-60	-4	.9998807	-62	-4	8.2
8.3	-35	-4	.9999163	-36	-4	.9999134	-38	-4	.9999103	-40	-4	.9999070	-41	-4	.9999036	-45	-4	8.3
8.4	-28	-4	.9999322	-30	-4	.9999299	-31	-4	.9999274	-32	-4	.9999248	-33	-4	.9999221	-36	-4	8.4
8.5	-23	-4	.9999451	-24	-4	.9999433	-25	-4	.9999413	-26	-4	.9999393	-27	-4	.9999372	-29	-4	8.5
8.6	-19	-4	.9999556	-20	-4	.9999542	-20	-4	.9999527	-22	-4	.9999511	-22	-4	.9999494	-23	-4	8.6
8.7	-15	-4	.9999641	-16	-4	.9999630	-16	-4	.9999618	-18	-4	.9999606	-18	-4	.9999593	-19	-4	8.7
8.8	-12	-4	.9999710	-13	-4	.9999702	-14	-4	.9999692	-14	-4	.9999683	-15	-4	.9999673	-16	-4	8.8
8.9	-10	-4	.9999766	-11	-4	.9999760	-11	-4	.9999752	-12	-4	.9999745	-12	-4	.9999737	-12	-4	8.9
9.0	-8	-4	.9999812	-9	-4	.9999807	-10	-4	.9999801	-10	-4	.9999795	-9	-4	.9999789	-10	-4	9.0
9.1	-7	-4	.9999848	-7	-4	.9999844	-8	-4	.9999840	-8	-4	.9999836	-8	-4	.9999831	-8	-4	9.1
9.2	-6	-4	.9999878	-6	-4	.9999875	-6	-4	.9999872	-7	-4	.9999868	-6	-4	.9999865	-7	-4	9.2
9.3	-5	-4	.9999902	-5	-4	.9999900	-6	-4	.9999897	-5	-4	.9999895	-6	-4	.9999892	-6	-4	9.3
9.4	-4	-4	.9999921	-4	-4	.9999919	-4	-4	.9999918	-4	-4	.9999916	-4	-4	.9999913	-4	-4	9.4
9.5			.9999937			.9999935			.9999934			.9999933			.9999931			9.5
9.6			.9999949			.9999948			.9999947			.9999946			.9999945			9.6
9.7			.9999959			.9999959			.9999958			.9999957			.9999956			9.7
9.8			.9999968			.9999967			.9999966			.9999965			.9999965			9.8
9.9			.9999974			.9999974			.9999973			.9999973			.9999972			9.9
10.0			.9999979			.9999979			.9999979			.9999978			.9999978			10.0
10.1			.9999983			.9999983			.9999983			.9999983			.9999982			10.1
10.2			.9999987			.9999987			.9999986			.9999986			.9999986			10.2
10.3			.9999989			.9999989			.9999989			.9999989			.9999989			10.3
10.4			.9999992			.9999991			.9999991			.9999991			.9999991			10.4
10.5			.9999993			.9999993			.9999993			.9999993			.9999993			10.5
10.6			.9999995			.9999995			.9999995			.9999995			.9999994			10.6
10.7			.9999996			.9999996			.9999996			.9999996			.9999996			10.7
10.8			.9999997			.9999997			.9999997			.9999997			.9999997			10.8
10.9			.9999997			.9999997			.9999997			.9999997			.9999997			10.9
11.0			.9999998			.9999998			.9999998			.9999998			.9999998			11.0
11.1			.9999998			.9999998			.9999998			.9999998			.9999998			11.1
11.2			.9999999			.9999999			.9999999			.9999999			.9999999			11.2
11.3			.9999999			.9999999			.9999999			.9999999			.9999999			11.3
11.4			.9999999			.9999999			.9999999			.9999999			.9999999			11.4
11.5			.9999999			.9999999			.9999999			.9999999			.9999999			11.5
11.6			.9999999			.9999999			.9999999			.9999999			.9999999			11.6
11.7			1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			11.7



$u$	$p = 9.0$			$p = 9.2$			$p = 9.4$			$p = 9.6$			$p = 9.8$			$p = 10.0$		
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
.1	.0000000	0		.0000000	0		.0000000	0		.0000000	0		.0000000	0		.0000000	0	
.2	.0000000	+1		.0000000	+1		.0000000	0		.0000000	0		.0000000	+3		.0000000	+3	
.3	.0000001	+5		.0000001	+5		.0000000	+5		.0000000	+4		.0000000	+8		.0000000	+8	
.4	.0000009	+26		.0000007	+26		.0000005	+28		.0000004	+18		.0000003	+14		.0000002	+14	
.5	.0000065	+180	+6	.0000048	+142	+4	.0000036	+110		.0000026	+88		.0000020	+67		.0000014	+67	
.6	.0000301	+623	+20	.0000231	+423	+16	.0000177	+342	+12	.0000136	+274	+12	.0000104	+229	+7	.0000079	+229	+7
.7	.0001060	+1222	+57	.0000837	+1014	+45	.0000660	+840	+37	.0000520	+694	+29	.0000408	+574	+23	.0000321	+574	+23
.8	.0003041	+2436	+133	.0002457	+2074	+109	.0001983	+1759	+89	.0001598	+1488	+73	.0001286	+1255	+60	.0001033	+1255	+60
.9	.0007460	+4299	+255	.0006151	+3732	+222	.0005065	+3231	+185	.0004164	+2792	+155	.0003419	+2405	+139	.0002801	+2405	+139
1.0	.0016178	+6867	+471	.0013577	+5871	+402	.0011378	+5055	+343	.0009522	+4710	+292	.0007958	+4134	+248	.0006642	+4134	+248
1.1	.0031763	+10119	+781	.0027074	+8599	+710	.0023046	+7472	+578	.0019590	+6555	+438	.0016631	+5729	+347	.0014101	+5729	+347
1.2	.0057458	+13999	+1135	.0049661	+12888	+1001	.0042865	+11553	+822	.0036951	+10491	+775	.0031812	+9504	+690	.0027352	+9504	+690
1.3	.0097052	+18921	+1594	.0084936	+16862	+1417	.0074237	+15403	+1263	.0064803	+14186	+1128	.0056497	+13033	+1004	.0049195	+13033	+1004
1.4	.0154667	+22195	+2087	.0136893	+20923	+1981	.0121012	+19477	+1711	.0106841	+18171	+1545	.0094215	+16999	+1392	.0082981	+16999	+1392
1.5	.0234480	+28137	+2815	.0209673	+24816	+2398	.0187264	+23499	+2195	.0167050	+22192	+2006	.0148842	+20904	+1830	.0132465	+20904	+1830
1.6	.0340430	+33165	+3134	.0307269	+29876	+2907	.0277015	+27184	+2591	.0249451	+25090	+2495	.0224373	+24743	+2298	.0201589	+24743	+2298
1.7	.0475918	+39383	+3698	.0433243	+36239	+3382	.0393950	+33062	+3154	.0357821	+29230	+2956	.0324647	+28154	+2754	.0294226	+28154	+2754
1.8	.0643559	+46385	+4405	.0590456	+43191	+4178	.0541147	+39544	+3854	.0495421	+37759	+3730	.0453075	+36062	+3518	.0413911	+36062	+3518
1.9	.0844985	+54323	+5299	.0780860	+51409	+4911	.0720846	+47374	+4622	.0664753	+43999	+4374	.0612395	+42256	+4199	.0563586	+42256	+4199
2.0	.1080734	+63727	+6471	.1005355	+58788	+5615	.0934292	+53903	+5150	.0867384	+50310	+4994	.0804471	+47306	+4681	.0745388	+47306	+4681
2.1	.1350210	+74203	+7411	.1263728	+68257	+6595	.1181641	+62955	+6272	.1103825	+58230	+5812	.1030153	+54069	+5399	.0960489	+54069	+5399
2.2	.1651717	+85938	+8420	.1554658	+80219	+7845	.1461945	+74099	+7426	.1373496	+69883	+6972	.1289218	+66091	+6573	.1209014	+66091	+6573
2.3	.1982562	+99025	+9706	.1875798	+92667	+9175	.1773208	+87092	+8713	.1674750	+82899	+8290	.1580374	+79099	+7909	.1490018	+79099	+7909
2.4	.2339209	+11349	+1112	.2223905	+10634	+1042	.2112493	+10009	+9999	.2004972	+9521	+9518	.1901327	+9069	+9069	.1801538	+9069	+9069
2.5	.2717457	+12954	+1288	.2595015	+12255	+1211	.2476087	+11699	+11611	.2367011	+11243	+11211	.2248909	+10819	+10819	.2140696	+10819	+10819
2.6	.3112646	+14693	+1463	.2984630	+13855	+1378	.2859680	+13291	+13211	.2737863	+12845	+12811	.2619237	+12419	+12419	.2503847	+12419	+12419
2.7	.3519862	+16538	+1653	.3387930	+15703	+1570	.3258564	+15199	+15119	.3131860	+14744	+14744	.3007900	+14319	+14319	.2886758	+14319	+14319
2.8	.3934128	+18589	+1858	.3799962	+17732	+1773	.3667837	+17254	+17254	.3537867	+16819	+16819	.3410154	+16419	+16419	.3284797	+16419	+16419
2.9	.4350580	+20853	+2085	.4215826	+19869	+1986	.4082582	+19419	+19419	.3950973	+19019	+19019	.3821118	+18619	+18619	.3693128	+18619	+18619
3.0	.4764616	+23343	+2334	.4630831	+21011	+2101	.4498037	+20211	+20211	.4366366	+19419	+19419	.4235944	+18619	+18619	.4106893	+18619	+18619
3.1	.5172017	+25953	+2595	.5040624	+22257	+2225	.4909732	+21511	+21511	.4779475	+20819	+20819	.4649981	+20119	+20119	.4521375	+20119	+20119
3.2	.5569027	+28689	+2868	.5441286	+23599	+2359	.5313600	+22911	+22911	.5186095	+22219	+22219	.5058899	+21519	+21519	.4932136	+21519	+21519
3.3	.5952418	+31543	+3154	.5829407	+25019	+2501	.5706502	+24419	+24419	.5582475	+23819	+23819	.5458794	+23219	+23219	.5335128	+23219	+23219
3.4	.6319515	+34519	+3451	.6202117	+26519	+2651	.6084034	+26019	+26019	.5965375	+25519	+25519	.5846251	+25019	+25019	.5726771	+25019	+25019
3.5	.6668202	+37619	+3761	.6557106	+28119	+2811	.6445040	+27719	+27719	.6332104	+27319	+27319	.6218393	+26919	+26919	.6104009	+26919	+26919
3.6	.6996908	+40819	+4081	.6892612	+29819	+2981	.6787122	+29419	+29419	.6680521	+29019	+29019	.6572895	+28619	+28619	.6464331	+28619	+28619
3.7	.7304571	+44119	+4411	.7207398	+31619	+3161	.7108861	+31219	+31219	.7009029	+30819	+30819	.6907977	+30419	+30419	.6805775	+30419	+30419
3.8	.7590599	+47519	+4751	.7500709	+33519	+3351	.7409338	+33119	+33119	.7316542	+32719	+32719	.7222379	+32319	+32319	.7126910	+32319	+32319
3.9	.7854816	+51019	+5101	.7772229	+35519	+3551	.7688090	+35119	+35119	.7602442	+34719	+34719	.7515330	+34319	+34319	.7426803	+34319	+34319
4.0	.8097408	+54619	+5461	.8022020	+37619	+3761	.7945051	+37219	+37219	.7866531	+36819	+36819	.7786494	+36419	+36419	.7704977	+36419	+36419
4.1	.8318864	+58319	+5831	.8250471	+39819	+3981	.8180502	+39419	+39419	.8108977	+38919	+38919	.8035919	+38519	+38519	.7961354	+38519	+38519
4.2	.8519917	+62119	+6211	.8458234	+42119	+4211	.8395010	+41719	+41719	.8330254	+41219	+41219	.8263981	+40819	+40819	.8196207	+40819	+40819
4.3	.8701496	+66019	+6601	.8646177	+44519	+4451	.8589373	+44119	+44119	.8531087	+43619	+43619	.8471325	+43219	+43219	.8410096	+43219	+43219
4.4	.8864672	+70019	+7001	.8815326	+47019	+4701	.8764569	+46619	+46619	.8712399	+46119	+46119	.8658814	+45719	+45719	.8603816	+45719	+45719
4.5	.9010613	+74119	+7411	.8966822	+49619	+4961	.8921706	+49219	+49219	.8875258	+48719	+48719	.8827473	+48319	+48319	.8778346	+48319	+48319
4.6	.9140549	+78319	+7831	.9101878	+52319	+5231	.9061977	+51919	+51919	.9020836	+51419	+51419	.8978444	+51019	+51019	.8934793	+51019	+51019
4.7	.9255731	+82619	+8261	.9221744	+55119	+5511	.9186625	+54719	+54719	.9150362	+54219	+54219	.9112943	+53819	+53819	.9074355	+53819	+53819
4.8	.9357412	+87019	+8701	.9327676	+58019	+5801	.9296910	+57619	+57619	.9265097	+57119	+57119	.9232225	+56719	+56719	.9198279	+56719	+56719
4.9	.9446816	+91519	+9151	.9420914	+61019	+6101	.9394080	+60619	+60619	.9366298	+60119	+60119	.9337554	+59719	+59719	.9307831	+59719	+59719
5.0	.9525126	+96119	+9611	.9502657	+64119	+6411	.9479353	+63719	+63719	.9455198	+63219	+63219	.9430174	+62819	+62819	.9404267	+62819	+62819
5.1	.9593465	+100819	+10081	.9574054	+67319	+6731	.9553900	+66919	+66919	.9532985	+66419	+66419	.9511294	+66019	+66019	.9488811	+66019	+66019
5.2	.9652895	+105619	+10561	.9636191	+70619	+7061	.9618830	+70219	+70219	.9600795	+69719	+69719	.9582070	+69319	+69319	.9562640	+69319	+69319
5.3	.9704400	+110519	+11051	.9690081	+74019	+7401	.9675183	+73619	+73619	.9659691	+73119	+73119	.9643592	+72719	+72719	.9626869	+72719	+72719
5.4	.9748892	+115519	+11551	.9736662	+77519	+7751	.9723926	+77119	+77119	.9710669	+76619	+76619	.9696880	+76219	+76219	.9682543	+76219	+76219
5.5	.9787206	+120619	+12061	.9776797	+81119	+8111	.9765947	+80719	+80719	.9754646	+80219	+80219	.9742879	+79819	+79819	.9730634	+79819	+79819
5.6	.9820099	+125819	+12581	.9811270	+84819	+8481	.9802061	+84419	+84419	.9792459	+83919	+83919	.9782455	+83519	+83519	.9772034	+83519	+83519
5.7	.9848256	+131119	+13111	.9840792	+88619	+8861	.9833001	+88219	+88219	.9824873	+87719	+87719	.9816396	+87319	+87319	.9807560	+87319	+87319
5.8	.9872291	+136519	+13651	.9866002	+92519	+9251	.9859432	+92119	+92119	.9852573	+91619	+91619	.9845416	+91219	+91219	.9837949	+91219	+91219
5.9	.9892751	+142019	+14201	.9887468	+96519	+9651	.9881947	+96119	+96119	.9876178	+95619	+95619	.9870154	+95219	+95219	.9863866	+95219	+95219
6.0	.9910123	+147619	+14761	.9905699	+100619	+10061	.9901073	+100219	+100219	.								



u	p = 10.0		p = 10.2				p = 10.4				p = 10.6				p = 10.8				p = 11.0				u	
	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$		
.1																								.1
.2	0		.0000000	0		.0000000		.0000000	+1		.0000000		.0000000	+1		.0000000		.0000000		.0000000	+1		.0000000	.2
.3	+2		.0000000	+1		.0000000		.0000000	+1		.0000000		.0000000	+2		.0000000		.0000000	+4	.0000000	+3		.0000000	.3
.4	+8		.0000001	+9		.0000001	+23	.0000001	+6		.0000001	+4	.0000001	+4		.0000000	+4	.0000000	+4	.0000000	+3		.0000000	.4
.5	+10		.0000001	+23		.0000001		.0000001	+20		.0000001	+17	.0000001	+17		.0000000	+11	.0000000	+4	.0000000	+8		.0000000	.5
.6	+35		.0000011	+40		.0000008	+31	.0000008	+37		.0000006	+24	.0000006	+49		.0000004	+19	.0000004	+36	.0000004	+32		.0000003	.6
.7	+81		.0000061	+69		.0000046	+140	.0000046	+113		.0000035	+90	.0000035	+70		.0000027	+70	.0000027	+91	.0000027	+71		.0000020	.7
.8	+177	+6	.0000251	+146	+4	.0000197	+318	.0000197	+121	+12	.0000154	+259	+9	.0000120	+212	+7	.0000094	+160	.0000094	+157	+0		.0000082	.8
.9	+398	+10	.0000829	+388	+15	.0000664	+748	.0000664	+422	+32	.0000532	+748	+32	.0000425	+523	+28	.0000339	+523	.0000339	+218	+17		.0000296	.9
1.0	+996	+46	.000296	+1773	+39	.0001877	+4088	.0001877	+2513	+74	.0001533	+2597	+82	.0001250	+1106	+61	.0001018	+564	.0001018	+564	+42		.0000829	1.0
1.1	+2067	+108	.0005536	+5163	+178	.0004608	+7258	.0004608	+4601	+161	.0003831	+7259	+127	.0003181	+2081	+107	.0002638	+1805	.0002638	+1805	+90		.0002067	1.1
1.2	+4517	+210	.0011939	+14617	+594	.0010097	+24539	.0010097	+16111	+274	.0008528	+24539	+235	.0007193	+15690	+201	.0006061	+10326	.0006061	+10326	+172		.0004818	1.2
1.3	+9929	+370	.0023489	+31617	+1468	.00202145	+59971	.00202145	+40871	+455	.0017257	+59971	+396	.0014765	+38005	+345	.0012617	+24539	.0012617	+24539	+390		.0010097	1.3
1.4	+21943	+696	.0042784	+64110	+3181	.0037164	+149961	.0037164	+102492	+999	.0032244	+149961	+758	.0027942	+98244	+807	.0024185	+64110	.0024185	+64110	+481		.00202145	1.4
1.5	+48608	+1408	.0073000	+145338	+7253	.0064144	+343309	.0064144	+230910	+1099	.0056297	+343309	+829	.0049353	+213933	+1938	.0043217	+145338	.0043217	+145338	+721		.0037164	1.5
1.6	+109408	+3168	.0117754	+316408	+17812	.0104557	+717214	.0104557	+483113	+1374	.0092734	+717214	+1245	.0082157	+419590	+1126	.0072706	+316408	.0072706	+316408	+1017		.0092734	1.6
1.7	+240448	+7258	.0180916	+692290	+39411	.0162184	+1510783	.0162184	+917811	+1781	.0145232	+1510783	+1631	.0129911	+911293	+1492	.0116083	+692290	.0116083	+692290	+1382		.0104557	1.7
1.8	+527048	+1781	.0266368	+1520318	+93110	.0240889	+3247744	.0240889	+2020642	+2206	.0217617	+3247744	+2042	.0196387	+224735	+1857	.0177043	+1520318	.0177043	+1520318	+1741		.0162184	1.8
1.9	+1152990	+4088	.0377738	+3293368	+28047	.0344368	+6804238	.0344368	+4262823	+3013	.0313625	+6804238	+2714	.0285336	+4262823	+2290	.0259338	+3293368	.0259338	+3293368	+2134		.0240889	1.9
2.0	+2532917	+9999	.0689971	+7328993	+73003	.0638059	+16240659	.0638059	+10341131	+3341	.0589487	+16240659	+3181	.0544096	+10341131	+3023	.0501727	+7328993	.0501727	+7328993	+2887		.0377738	2.0
2.1	+5517048	+24539	.0894696	+1633355	+37323	.0832635	+3531398	.0832635	+2239040	+3740	.0774164	+3531398	+3447	.0719139	+2239040	+3304	.0667419	+1633355	.0667419	+1633355	+3181		.0689971	2.1
2.2	+1194308	+6061	.1132776	+3527368	+88688	.1060397	+7923630	.1060397	+5038410	+8711	.0991760	+7923630	+5923	.0926748	+5038410	+4502	.0865240	+3527368	.0865240	+3527368	+3380		.0832635	2.2
2.3	+2532917	+14088	.1403612	+7923630	+20747	.1312081	+1816224	.1312081	+1097561	+3791	.1242341	+1816224	+3702	.1167303	+1097561	+3608	.1095874	+7923630	.1095874	+7923630	+3610		.0991760	2.3
2.4	+527048	+38223	.1705572	+1826483	+37972	.1613387	+4293471	.1613387	+2639351	+5732	.1524934	+4293471	+3876	.1440157	+2639351	+3812	.1358992	+1826483	.1358992	+1826483	+3543		.0926748	2.4
2.5	+1152990	+9302	.2036075	+4251153	+86888	.1935040	+9622111	.1935040	+5867107	+8671	.1837576	+9622111	+5547	.1743659	+5867107	+5615	.1653258	+4251153	.1653258	+4251153	+3473		.0865240	2.5
2.6	+240448	+28273	.2391731	+9211212	+32999	.2282914	+2239040	.2282914	+1381739	+3317	.2177413	+2239040	+3325	.2075238	+1381739	+3323	.1976387	+9211212	.1976387	+9211212	+3181		.0774164	2.6
2.7	+527048	+7258	.2768499	+2031613	+29888	.2653178	+4804238	.2653178	+2998940	+3984	.2540842	+4804238	+3022	.2431527	+2998940	+3051	.2325263	+2031613	.2325263	+2031613	+3071		.0689971	2.7
2.8	+1152990	+1781	.3161880	+4521153	+29211	.3041485	+9138113	.3041485	+5629240	+8711	.2923681	+9138113	+2654	.2808531	+5629240	+2706	.2696089	+4521153	.2696089	+4521153	+2754		.0606117	2.8
2.9	+2532917	+4088	.3567107	+9894238	+20577	.3443153	+21074238	.3443153	+12672113	+9671	.3321356	+21074238	+2283	.3201799	+12672113	+2313	.3084555	+9894238	.3084555	+9894238	+2384		.0527048	2.9
3.0	+527048	+14888	.3979328	+22291096	+10964	.3853359	+47372169	.3853359	+2916999	+13742	.3729089	+47372169	+1787	.3606616	+2916999	+1889	.3486031	+22291096	.3486031	+22291096	+1972		.0440157	3.0
3.1	+1152990	+3168	.4393778	+49311212	+11283	.4267307	+10341131	.4267307	+6212333	+1793	.4142074	+10341131	+1344	.4018184	+6212333	+1447	.3895742	+49311212	.3895742	+49311212	+1642		.03527048	3.1
3.2	+240448	+7258	.4805927	+10923630	+1669	.4680389	+2309040	.4680389	+1411233	+1233	.4556390	+2309040	+898	.4431787	+1411233	+1007	.4308942	+10923630	.4308942	+10923630	+1110		.0266368	3.2
3.3	+527048	+1781	.5211594	+2404483	+243	.5088309	+5044238	.5088309	+3094238	+382	.4965386	+5044238	+473	.4842936	+3094238	+482	.4721069	+2404483	.4721069	+2404483	+699		.0180916	3.3
3.4	+1152990	+4088	.5607046	+5444238	+136	.5487185	+1244238	.5487185	+7829	+27	.5367296	+1244238	+60	.5247488	+7829	+187	.5127866	+5444238	.5127866	+5444238	+291		.0104557	3.4
3.5	+240448	+3168	.5989051	+12138	-474	.5873619	+2813113	.5873619	+17373	-373	.5757814	+2813113	-272	.5651737	+17373	-172	.5525488	+12138	.5525488	+12138	-72		.00202145	3.5
3.6	+527048	+7258	.6354917	+28282	-700	.6244742	+617638	.6244742	+3870	-870	.6133897	+617638	-679	.6022474	+3870	-487	.5910564	+28282	.5910564	+28282	-395		.0010097	3.6
3.7	+1152990	+1781	.6702501	+6212333	-995	.6598232	+1381739	.6598232	+8616	-916	.6493046	+1381739	-835	.6387025	+8616	-754	.6280251	+6212333	.6280251	+6212333	-671		.0000000	3.7
3.8	+240448	+4088	.7030197	+1411233	-1178	.6932307	+3247744	.6932307	+2020642	-1211	.6833305	+3247744	-1042	.6733260	+2020642	-972	.6632244	+1411233	.6632244	+1411233	-900		.0000000	3.8
3.9	+527048	+9999	.7336911	+3164088	-1313	.7245707	+7172144	.7245707	+4336	-1357	.7153245	+7172144	-1201	.7059583	+4336	-1142	.6964779	+3164088	.6964779	+3164088	-1081		.0000000	3.9
4.0	+1152990	+1781	.7622017	+7172144	-1401	.7537656	+1510783	.7537656	+21791	-1358	.7451937	+1510783	-1313	.7364905	+21791	-1265	.7276608	+7172144	.7276608	+7172144	-1216		.0000000	4.0
4.1	+240448	+4088	.7885309	+1633355	-1450	.7807814	+3531398	.7807814	+1417	-1411	.7728902	+3531398	-1383	.7648607	+1417	-1340	.7566966	+1633355	.7566966	+1633355	-1307		.0000000	4.1
4.2	+527048	+9999	.8126949	+3527368	-1463	.8056228	+7923630	.8056228	+323	-1441	.7984067	+7923630	-1415	.7910491	+323	-1390	.7835524	+3527368	.7835524	+3527368	-1300		.0000000	4.2
4.3	+1152990	+1781	.8347407	+7923630	-1447	.8283273	+1781233	.8283273	+1433	-1433	.8217705	+1781233	-1417	.8150721	+1433	-1399	.8082337	+7923630	.8082337	+7923630	-1380		.0000000	4.3
4.4	+240448	+4088	.8547408	+1826483	-1406	.8489593	+4293471	.8489593	+1399	-1399	.8430380	+4293471	-1391	.8369774	+1399	-1381	.8307788	+1826483	.8307788	+1826483	-1370		.0000000	4.4
4.5	+527048	+9999	.8727873	+4251153	-1345	.8676055	+9622111	.8676055	+1348	-1348	.8622890	+9622111	-1344	.8568381	+1348	-1341	.8512532	+4251153	.8512532	+4251153	-1338		.0000000	4.5
4.6	+1152990	+1781	.8889875	+10341131	-1272	.8843685	+2239040	.8843685	+1277	-1277	.8796218	+2239040	-1280	.8747470	+1277	-1283	.8697440	+10341131	.8697440	+10341131	-1284		.0000000	4.6
4.7	+240448	+4088	.9034587	+2309040	-1189	.8993631	+5044238	.8993631	+1197	-1197	.8951477	+5044238	-1205	.8908118	+1197	-1211	.8863549	+2309040	.8					











u	p = 11.0		p = 11.2		p = 11.4		p = 11.6		p = 11.8		p = 12.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	I(u, p)	u
-2	.0000000											-2
-3	.0000000	+5		+2		+2		+1		+1		-3
-4	.0000000	+8	.0000000	+7	.0000000	+4	.0000000	+5	.0000000	+3	.0000000	-4
-5	.0000003	+14	.0000002	+11	.0000002	+8	.0000001	+7	.0000001	+5	.0000001	-5
-6	.0000020	+32	.0000015	+25	.0000012	+21	.0000009	+14	.0000007	+12	.0000005	-6
-7	.0000094	+57	.0000073	+40	.0000057	+35	.0000044	+27	.0000034	+21	.0000026	-7
-8	.0000339	+71	.0000270	+50	.0000215	+40	.0000171	+30	.0000136	+25	.0000108	-8
-9	.0001018	+149	.0000828	+108	.0000673	+78	.0000546	+58	.0000443	+42	.0000358	-9
1.0	.0002638	+243	.0002184	+176	.0001807	+134	.0001493	+103	.0001232	+77	.0001015	1.0
1.1	.0006061	+359	.0005100	+274	.0004286	+217	.0003598	+163	.0003017	+124	.0002527	1.1
1.2	.0012617	+512	.0010770	+390	.0009182	+297	.0007819	+225	.0006651	+168	.0005651	1.2
1.3	.0024185	+721	.0020910	+548	.0018057	+418	.0015577	+326	.0013422	+245	.0011552	1.3
1.4	.0043217	+988	.0037801	+744	.0033027	+571	.0028825	+437	.0025130	+327	.0021885	1.4
1.5	.0072706	+1388	.0064272	+1047	.0056755	+825	.0050064	+619	.0044115	+466	.0038832	1.5
1.6	.0116083	+1952	.0103616	+1442	.0092391	+1130	.0082297	+848	.0073230	+632	.0065096	1.6
1.7	.0177043	+2715	.0159441	+2020	.0143443	+1518	.0128920	+1135	.0115752	+847	.0103826	1.7
1.8	.0259338	+3749	.0235473	+2813	.0213594	+2071	.0193557	+1519	.0175231	+1115	.0158487	1.8
1.9	.0366524	+5097	.0335318	+3763	.0306476	+2815	.0279849	+2079	.0255296	+1519	.0232680	1.9
2.0	.0501727	+6949	.0462226	+5072	.0425441	+3713	.0391224	+2804	.0359431	+2079	.0329924	2.0
2.1	.0667419	+9312	.0618861	+6816	.0573322	+5036	.0530663	+3742	.0490745	+2809	.0453434	2.1
2.2	.0865240	+12380	.0807112	+9028	.0752239	+6610	.0700496	+4941	.0651758	+3597	.0605899	2.2
2.3	.1095874	+16467	.1027954	+12111	.0963442	+8882	.0902234	+6610	.0844220	+4941	.0789294	2.3
2.4	.1358992	+22149	.1281370	+16467	.1207215	+11959	.1136447	+8882	.1068983	+6610	.1004734	2.4
2.5	.1653258	+29883	.1566332	+22149	.1482838	+30155	.1402722	+22149	.1325926	+16467	.1252388	2.5
2.6	.1976387	+40481	.1880851	+29883	.1788616	+40481	.1699658	+29883	.1613945	+22149	.1531443	2.6
2.7	.2325263	+54819	.2222070	+40481	.2121959	+54819	.2024937	+40481	.1931001	+29883	.1840140	2.7
2.8	.2696089	+74499	.2586401	+54819	.2479505	+74499	.2375433	+54819	.2274208	+40481	.2175846	2.8
2.9	.3084555	+100883	.2969695	+74499	.2857277	+100883	.2747355	+74499	.2639977	+54819	.2535181	2.9
3.0	.3486031	+138285	.3367419	+100883	.3250858	+138285	.3136421	+100883	.3024172	+74499	.2914172	3.0
3.1	.3895742	+188841	.3774842	+138285	.3655577	+188841	.3538033	+138285	.3422290	+100883	.3308422	3.1
3.2	.4308942	+253281	.4187207	+188841	.4066681	+253281	.3947461	+188841	.3829636	+138285	.3713293	3.2
3.3	.4721069	+334083	.4599890	+253281	.4479505	+334083	.4360000	+253281	.4241500	+188841	.4124074	3.3
3.4	.5127866	+434083	.5008536	+334083	.4889598	+434083	.4771156	+334083	.4653306	+253281	.4536144	3.4
3.5	.5525488	+568483	.5409166	+434083	.5292870	+568483	.5176699	+434083	.5060748	+334083	.4945112	3.5
3.6	.5910564	+744999	.5798259	+568483	.5685652	+744999	.5572834	+568483	.5459896	+434083	.5346931	3.6
3.7	.6280251	+998483	.6172805	+744999	.6064771	+998483	.5956233	+744999	.5847276	+568483	.5737983	3.7
3.8	.6632244	+1344999	.6530328	+998483	.6427585	+1344999	.6324090	+998483	.6219919	+744999	.6115146	3.8
3.9	.6964779	+1808483	.6868895	+1344999	.6771992	+1808483	.6674135	+1344999	.6575389	+998483	.6475822	3.9
4.0	.7276608	+2412483	.7187096	+1808483	.7096420	+2412483	.7004633	+1808483	.6911791	+1344999	.6817950	4.0
4.1	.7566966	+3188483	.7484018	+2412483	.7399803	+3188483	.7314365	+2412483	.7227747	+1808483	.7139997	4.1
4.2	.7835524	+4188483	.7759198	+3188483	.7681542	+4188483	.7602589	+3188483	.7522373	+2412483	.7440933	4.2
4.3	.8082337	+5448483	.8012574	+4188483	.7941453	+5448483	.7868997	+4188483	.7795233	+3188483	.7720188	4.3
4.4	.8307788	+6988483	.8244432	+5448483	.8179719	+6988483	.8113665	+5448483	.8046289	+4188483	.7977607	4.4
4.5	.8512532	+8848483	.8455346	+6988483	.8396830	+8848483	.8336994	+6988483	.8275846	+5448483	.8213399	4.5
4.6	.8697440	+1108483	.8646126	+8848483	.8593529	+1108483	.8539653	+8848483	.8484500	+6988483	.8428075	4.6
4.7	.8863549	+14748483	.8817763	+1108483	.8770756	+14748483	.8722527	+1108483	.8673074	+8848483	.8622396	4.7
4.8	.9012013	+1908483	.8971379	+14748483	.8929259	+1908483	.8886666	+14748483	.8842574	+1108483	.8797318	4.8
4.9	.9144060	+2532819	.9108186	+1908483	.9071247	+2532819	.9033232	+1908483	.8994133	+14748483	.8953943	4.9
5.0	.9260958	+3340839	.9229444	+2532819	.9196950	+3340839	.9163463	+2532819	.9128973	+1908483	.9093470	5.0
5.1	.9363981	+4340839	.9336430	+3340839	.9307985	+4340839	.9278633	+3340839	.9248362	+2532819	.9217159	5.1
5.2	.9454386	+5684839	.9430410	+4340839	.9405627	+5684839	.9380021	+4340839	.9353581	+3340839	.9326293	5.2
5.3	.9533388	+7449999	.9512617	+5684839	.9491121	+7449999	.9468887	+5684839	.9445901	+4340839	.9422149	5.3
5.4	.9602151	+9984839	.9584234	+7449999	.9565672	+9984839	.9546451	+7449999	.9526557	+5684839	.9505977	5.4
5.5	.9661773	+13449999	.9646382	+9984839	.9630420	+13449999	.9613875	+9984839	.9596732	+7449999	.9578980	5.5
5.6	.9713277	+18084839	.9700109	+13449999	.9686840	+18084839	.9672256	+13449999	.9657547	+9984839	.9642299	5.6
5.7	.9757611	+24124839	.9746388	+18084839	.9734728	+24124839	.9722618	+18084839	.9710048	+13449999	.9697005	5.7
5.8	.9795641	+31884839	.9786112	+24124839	.9776204	+31884839	.9765905	+24124839	.9755204	+18084839	.9744092	5.8
5.9	.9828154	+41884839	.9820094	+31884839	.9811705	+41884839	.9802979	+31884839	.9793905	+24124839	.9784474	5.9
6.0	.9855863	+54484839	.9849068	+41884839	.9841992	+54484839	.9834626	+41884839	.9826960	+31884839	.9818986	6.0



u	p = 12.0		p = 12.2		p = 12.4		p = 12.6		p = 12.8		p = 13.0		u
	$\delta_u^3$	$\delta_p^3$	$\delta_u^2$	$\delta_p^2$	$\delta_u^2$	$\delta_p^2$	$\delta_u^2$	$\delta_p^2$	$\delta_u^2$	$\delta_p^2$	$\delta_u^2$	$\delta_p^2$	
.2													.2
.3													.3
.4	+1		.0000000		.0000000		.0000000		.0000000		.0000000		.4
.5	+3		.0000000	+4	.0000000	+3	.0000000	+2	.0000000	+2	.0000000	+1	.5
.6	+12		.0000004	+12	.0000003	+12	.0000002	+12	.0000002	+12	.0000001	+11	.6
.7	+30		.0000020	+29	.0000016	+29	.0000012	+29	.0000009	+26	.0000007	+20	.7
.8	+81	+6	.0000085	+49	.0000068	+44	.0000053	+41	.0000042	+30	.0000033	+25	.8
.9	+168	+16	.0000290	+140	.0000234	+98	.0000189	+77	.0000152	+51	.0000122	+38	.9
1.0	+327		.0000836	+287	.0000687	+227	.0000565	+21	.0000463	+18	.0000380	+16	1.0
1.1	+497	+77	.0002114	+148	.0001767	+123	.0001475	+85	.0001229	+40	.0001024	+33	1.1
1.2	+808	+145	.0004796	+245	.0004066	+185	.0003443	+107	.0002912	+79	.0002461	+68	1.2
1.3	+1322	+250	.0009932	+371	.0008530	+305	.0007318	+196	.0006272	+144	.0005370	+123	1.3
1.4	+2092	+399	.0019039	+601	.0016545	+489	.0014364	+312	.0012457	+242	.0010792	+215	1.4
1.5	+3217	+697	.0034147	+869	.0029996	+787	.0026323	+478	.0023077	+280	.0020210	+239	1.5
1.6	+4746	+845	.0057807	+1157	.0051284	+1017	.0045451	+624	.0040243	+562	.0035596	+506	1.6
1.7	+6717	+1138	.0093038	+1493	.0083290	+1398	.0074491	+866	.0066559	+759	.0059415	+717	1.7
1.8	+9329	+1464	.0143207	+1980	.0129278	+1810	.0116595	+1147	.0105059	+1054	.0094577	+968	1.8
1.9	+12801	+1808	.0211871	+2608	.0192747	+2109	.0175190	+1455	.0159089	+1351	.0144339	+1252	1.9
2.0	+17526	+2151	.0302569	+3430	.0277235	+2431	.0253799	+1778	.0232141	+1664	.0212147	+1556	2.0
2.1	+23895	+2474	.0418597	+4510	.0386104	+3244	.0355829	+2096	.0327651	+1878	.0301450	+1864	2.1
2.2	+32503	+2755	.0562795	+5881	.0522322	+4219	.0484360	+2391	.0448788	+2274	.0415491	+2180	2.2
2.3	+44045	+2976	.0737344	+7517	.0688259	+5321	.0641929	+3063	.0598244	+2534	.0557092	+2425	2.3
2.4	+59124	+3124	.0943610	+9420	.0885517	+6989	.0830360	+4180	.0778022	+2741	.0728466	+2643	2.4
2.5	+78101	+3190	.1182039	+11841	.1114809	+9343	.1050621	+5264	.0989398	+3861	.0931058	+2900	2.5
2.6	+103446	+3168	.1452109	+15011	.1375895	+12068	.1302749	+6311	.1232615	+4291	.1165431	+2856	2.6
2.7	+138577	+3060	.1752340	+18603	.1667577	+15403	.1585824	+7297	.1507049	+5283	.1431211	+3905	2.7
2.8	+188292	+2872	.2080356	+23628	.1987742	+19553	.1897999	+10282	.1811119	+7284	.1727086	+5287	2.8
2.9	+257065	+2615	.2433000	+30282	.2333460	+25660	.2236581	+13294	.2142377	+9814	.2050854	+6845	2.9
3.0	+351289	+2300	.2806472	+38404	.2701121	+32877	.2598157	+19009	.2497616	+12452	.2399527	+8473	3.0
3.1	+484061	+1947	.3196501	+49194	.3086588	+42067	.2978742	+24121	.2873015	+15855	.2769455	+10208	3.1
3.2	+661910	+1564	.3598514	+63164	.3485375	+53712	.3373948	+30178	.3264299	+18344	.3156492	+11897	3.2
3.3	+894289	+1171	.4007819	+80141	.3892821	+66133	.3779161	+38336	.3666917	+24489	.3556161	+15538	3.3
3.4	+1200000	+782	.4419765	+99825	.4304258	+80660	.4189710	+49194	.4076207	+26612	.3963828	+19202	3.4
3.5	+1611490	+409	.4829886	+122600	.4715160	+96090	.4601023	+67767	.4487564	+32452	.4374865	+11844	3.5
3.6	+2150767	+62	.5234027	+151151	.5121275	+123023	.5008763	+92326	.4896576	+41141	.4784801	+25495	3.6
3.7	+2958920	-250	.5628441	+18004	.5518731	+12978	.5408940	+11119	.5299150	+10137	.5189443	+1666	3.7
3.8	+4054848	-824	.6009851	+22460	.5904109	+14988	.5797998	+14183	.5691597	+13338	.5584933	+136	3.8
3.9	+5518243	-704	.6375501	+27680	.6274494	+17323	.6172873	+18733	.6070706	+16032	.5968066	+402	3.9
4.0	+7512001	-941	.6723169	+34164	.6627506	+21220	.6531023	+24788	.6433783	+18197	.6335846	+631	4.0
4.1	+10240000	-1084	.7051163	+42173	.6961295	+25953	.6870444	+29213	.6778663	+20211	.6686005	+820	4.1
4.2	+13910000	-1187	.7358305	+51875	.7274531	+31398	.7189652	+33606	.7103717	+20959	.7016755	+970	4.2
4.3	+18800000	-1253	.7643890	+62429	.7566371	+37798	.7487663	+40814	.7407802	+21817	.7326823	+1080	4.3
4.4	+25100000	-1284	.7907642	+74822	.7836415	+44820	.7763951	+49191	.7690275	+21848	.7615416	+1165	4.4
4.5	+33100000	-1287	.8149665	+89268	.8084659	+53464	.8018398	+58237	.7950900	+21710	.7882184	+1197	4.5
4.6	+43100000	-1265	.8370385	+105121	.8311439	+63024	.8251245	+68236	.8189815	+21520	.8127162	+1210	4.6
4.7	+55600000	-1224	.8570494	+122421	.8517372	+73600	.8463032	+79212	.8407480	+20531	.8350723	+1108	4.7
4.8	+71100000	-1167	.8750896	+141890	.8703305	+85217	.8654544	+90717	.8604614	+20066	.8553515	+1168	4.8
4.9	+90100000	-1099	.8912654	+164468	.8870261	+98893	.8826758	+103113	.8782142	+18522	.8736410	+1118	4.9
5.0	+113800000	-1023	.9056945	+191222	.9019388	+113999	.8980791	+109699	.8941148	+17352	.8900453	+1068	5.0
5.1	+145500000	-942	.9185014	+221939	.9151916	+130963	.9117855	+157900	.9082822	+16077	.9046806	+990	5.1
5.2	+183700000	-866	.9298144	+256872	.9269124	+149338	.9239219	+144127	.9208419	+14788	.9176714	+916	5.2
5.3	+231200000	-779	.9397618	+296230	.9372297	+170624	.9346171	+131300	.9319230	+13500	.9291461	+839	5.3
5.4	+293800000	-699	.9484699	+340284	.9462708	+195255	.9439993	+118890	.9416541	+12237	.9392339	+762	5.4
5.5	+376100000	-623	.9560605	+390111	.9541594	+224648	.9521935	+106778	.9501615	+11017	.9480622	+686	5.5
5.6	+484600000	-551	.9626500	+446181	.9610137	+257570	.9593199	+95419	.9575672	+9859	.9557545	+613	5.6
5.7	+626100000	-484	.9683477	+510809	.9669453	+295188	.9654922	+84780	.9639870	+8758	.9624288	+57	5.7
5.8	+806700000	-423	.9732556	+584439	.9720586	+339219	.9708171	+74845	.9695300	+7758	.9681962	+478	5.8
5.9	+1031000000	-367	.9774676	+668102	.9764500	+390388	.9753936	+65780	.9742974	+6824	.9731604	+419	5.9
6.0	+1311000000	-317	.9810694	+762320	.9802076	+45479	.9793123	+52845	.9783824	+5973	.9774171	+384	6.0



u	p = 11.0				p = 11.2				p = 11.4				p = 11.6				p = 11.8				p = 12.0			
	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	I(u, p)
6.0	.9855863	-4199	-273	-70	.9849068	-4346	-282	-73	.9841992	-4332	-290	-75	.9834626	-4725	-299	-74	.9826960	-4918	-308	-76	.9818986	6.0		
6.1	.9879403	-8601	-233	-66	.9873696	-3760	-241	-67	.9867747	-8023	-249	-68	.9861550	-4069	-256	-70	.9855097	-4269	-264	-71	.9848379	6.1		
6.2	.9899342	-3099	-198	-80	.9894564	-3238	-205	-82	.9889580	-3380	-212	-84	.9884385	-3527	-219	-86	.9878972	-3680	-226	-87	.9873333	6.2		
6.3	.9916182	-2658	-168	-85	.9912194	-2777	-174	-87	.9908033	-2303	-179	-89	.9903693	-3032	-186	-91	.9899167	-3185	-192	-92	.9894449	6.3		
6.4	.9930364	-2271	-141	-90	.9927047	-2376	-146	-91	.9923583	-2482	-151	-93	.9919969	-2695	-157	-95	.9916197	-2710	-162	-96	.9912264	6.4		
6.5	.9942275	-1933	-118	-95	.9939524	-2022	-123	-96	.9936651	-2117	-127	-98	.9933650	-2213	-132	-100	.9930517	-2215	-136	-101	.9927248	6.5		
6.6	.9952253	-1641	-99	-100	.9949979	-1719	-103	-101	.9947602	-1793	-106	-103	.9945118	-1861	-110	-105	.9942524	-1867	-114	-106	.9939816	6.6		
6.7	.9960590	-1388	-82	-105	.9958715	-1464	-86	-106	.9956754	-1522	-89	-108	.9954705	-1594	-92	-110	.9952564	-1608	-96	-111	.9950327	6.7		
6.8	.9967538	-1171	-68	-110	.9965997	-1228	-71	-111	.9964384	-1285	-74	-113	.9962698	-1345	-76	-115	.9960936	-1408	-79	-116	.9959094	6.8		
6.9	.9973315	-985	-66	-115	.9972051	-1081	-69	-116	.9970729	-1161	-71	-118	.9969346	-1233	-73	-120	.9967900	-1268	-76	-121	.9966388	6.9		
7.0	.9978107	-827	-46	-120	.9977074	-867	-45	-121	.9975993	-903	-50	-122	.9974861	-960	-52	-124	.9973678	-996	-54	-125	.9972440	7.0		
7.1	.9982072	-690	-38	-125	.9981230	-724	-40	-126	.9980349	-760	-41	-128	.9979426	-797	-43	-130	.9978460	-834	-45	-131	.9977449	7.1		
7.2	.9985347	-576	-31	-130	.9984662	-604	-32	-131	.9983945	-653	-34	-133	.9983194	-665	-35	-135	.9982408	-695	-37	-136	.9981586	7.2		
7.3	.9988046	-489	-25	-135	.9987490	-505	-26	-136	.9986908	-527	-28	-138	.9986299	-553	-29	-140	.9985661	-579	-30	-141	.9984993	7.3		
7.4	.9990264	-398	-21	-140	.9989815	-417	-21	-141	.9989344	-437	-22	-143	.9988851	-463	-23	-145	.9988335	-482	-24	-146	.9987794	7.4		
7.5	.9992085	-329	-17	-145	.9991723	-346	-17	-146	.9991343	-363	-18	-148	.9990944	-379	-19	-150	.9990527	-398	-20	-151	.9990090	7.5		
7.6	.9993576	-272	-14	-150	.9993284	-285	-14	-151	.9992978	-299	-15	-153	.9992658	-314	-15	-155	.9992322	-328	-16	-156	.9991970	7.6		
7.7	.9994795	-226	-11	-155	.9994561	-238	-11	-156	.9994315	-248	-12	-158	.9994058	-259	-12	-160	.9993788	-271	-13	-161	.9993505	7.7		
7.8	.9995790	-185	-9	-160	.9995602	-194	-9	-161	.9995405	-203	-9	-163	.9995198	-212	-10	-165	.9994982	-223	-10	-166	.9994755	7.8		
7.9	.9996599	-151	-7	-165	.9996449	-159	-7	-166	.9996292	-167	-8	-168	.9996127	-175	-8	-170	.9995954	-183	-8	-171	.9995773	7.9		
8.0	.9997258	-124	-6	-170	.9997138	-130	-6	-171	.9997012	-136	-6	-173	.9996881	-144	-6	-175	.9996743	-150	-7	-176	.9996598	8.0		
8.1	.9997792	-101	-5	-175	.9997697	-106	-5	-176	.9997597	-111	-5	-178	.9997492	-117	-5	-180	.9997382	-122	-5	-181	.9997267	8.1		
8.2	.9998225	-83	-4	-180	.9998149	-85	-4	-181	.9998070	-91	-4	-183	.9997987	-95	-4	-185	.9997899	-99	-4	-186	.9997808	8.2		
8.3	.9998575	-67		-185	.9998515	-70		-186	.9998452	-74		-188	.9998386	-77		-190	.9998317	-81		-191	.9998245	8.3		
8.4	.9998857	-54		-190	.9998810	-57		-191	.9998760	-60		-193	.9998708	-63		-195	.9998654	-66		-196	.9998596	8.4		
8.5	.9999085	-44		-195	.9999048	-47		-196	.9999009	-49		-198	.9998968	-52		-200	.9998925	-53		-201	.9998879	8.5		
8.6	.9999269	-36		-200	.9999239	-38		-201	.9999208	-39		-203	.9999176	-41		-205	.9999142	-43		-206	.9999107	8.6		
8.7	.9999416	-29		-205	.9999393	-30		-206	.9999369	-32		-208	.9999343	-33		-210	.9999317	-35		-211	.9999289	8.7		
8.8	.9999534	-23		-210	.9999516	-24		-211	.9999497	-28		-213	.9999477	-27		-215	.9999457	-28		-216	.9999435	8.8		
8.9	.9999629	-19		-215	.9999615	-20		-216	.9999600	-20		-218	.9999585	-22		-220	.9999568	-23		-221	.9999551	8.9		
9.0	.9999705	-15		-220	.9999694	-18		-221	.9999682	-16		-223	.9999670	-17		-225	.9999658	-18		-226	.9999644	9.0		
9.1	.9999766	-13		-225	.9999757	-13		-226	.9999748	-13		-228	.9999739	-14		-230	.9999729	-15		-231	.9999718	9.1		
9.2	.9999814	-10		-230	.9999807	-10		-231	.9999800	-10		-233	.9999793	-11		-235	.9999785	-12		-236	.9999777	9.2		
9.3	.9999853	-9		-235	.9999847	-8		-236	.9999842	-9		-238	.9999836	-9		-240	.9999830	-9		-241	.9999824	9.3		
9.4	.9999883	-8		-240	.9999879	-8		-241	.9999875	-7		-243	.9999871	-7		-245	.9999866	-7		-246	.9999861	9.4		
9.5	.9999908	-5		-245	.9999905	-5		-246	.9999901	-5		-248	.9999898	-6		-250	.9999895	-5		-251	.9999891	9.5		
9.6	.9999927	-4		-250	.9999925	-4		-251	.9999922	-4		-253	.9999920	-5		-255	.9999917	-5		-256	.9999914	9.6		
9.7	.9999942			-255	.9999941			-256	.9999939	-4		-258	.9999937	-4		-260	.9999935	-4		-261	.9999933	9.7		
9.8	.9999955			-260	.9999953			-261	.9999952			-263	.9999950			-265	.9999949			-266	.9999947	9.8		
9.9	.9999964			-265	.9999963			-266	.9999962			-268	.9999961			-270	.9999960			-271	.9999958	9.9		
10.0	.9999972			-270	.9999971			-271	.9999970			-273	.9999969			-275	.9999968			-276	.9999966	10.0		
10.1	.9999978			-275	.9999977			-276	.9999977			-278	.9999976			-280	.9999975			-281	.9999975	10.1		
10.2	.9999983			-280	.9999982			-281	.9999982			-283	.9999981			-285	.9999981			-286	.9999980	10.2		
10.3	.9999986			-285	.9999986			-286	.9999986			-288	.9999985			-290	.9999985			-291	.9999984	10.3		
10.4	.9999989			-290	.9999989			-291	.9999989			-293	.9999989			-295	.9999988			-296	.9999988	10.4		
10.5	.9999992			-295	.9999992			-296	.9999991			-298	.9999991			-300	.9999991			-301	.9999991	10.5		
10.6	.9999993			-300	.9999993			-301	.9999993			-303	.9999993			-305	.9999993			-306	.9999993	10.6		
10.7	.9999995			-305	.9999995			-306	.9999995			-308	.9999995			-310	.9999994			-311	.9999994	10.7		
10.8	.9999996			-310	.9999996			-311	.9999996			-313	.9999996			-315	.9999996			-316	.9999996	10.8		
10.9	.9999997			-315	.9999997			-316	.9999997			-318	.9999997			-320	.9999997			-321	.9999997	10.9		
11.0	.9999998			-320	.9999998			-321	.9999998			-323	.9999998			-325	.9999997			-326	.9999997	11.0		
11.1	.9999998			-325	.9999998			-326	.9999998			-328	.9999998			-330	.9999998			-331	.9999998	11.1		
11.2	.9999999			-330	.9999998			-331	.9999998			-333	.9999998			-335	.9999998			-336	.9999998	11.2		
11.3	.9999999			-335	.9999999			-336	.9999999			-338	.9999999			-340	.9999999			-341	.9999999	11.3		
11.4	.9999999			-340	.9999999			-341	.9999999			-343	.9999999			-345	.9999999			-346	.9999999	11.4		
11.5	.9999999			-345	.9999999			-346	.9999999			-348	.9999999			-350	.9999999			-351	.9999999	11.5		
11.6	.9999999			-350	.9999999			-351	.9999999			-353	.9999999			-355	.9999999			-356	.9999999	11.6		
11.7	1.0000000			-355	1.0000000			-356	1.0000000			-358	1.0000000			-360	1.0000000			-361	1.0000000	11.7		



u	p = 12.0		p = 12.2		p = 12.4		p = 12.6		p = 12.8		p = 13.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
6.0	-5119 -82	-317	.9810694	-5223 -75	-528	.9802076	-5534 -79	-338	.9793123	-5759 -90	-345	.9783824	-5979 -91	-355	.9774171	-6201 -81	-384	6.0
6.1	-4439 -79	-272	.9841389	-4823 -71	-281	.9834118	-4812 -78	-289	.9826558	-5005 -77	-298	.9818701	-5205 -76	-306	.9810537	-5408 -79	-316	6.1
6.2	-3838 -75	-233	.9867461	-4006 -68	-240	.9861348	-4163 -72	-248	.9854988	-4338 -74	-255	.9848373	-4512 -75	-263	.9841495	-4694 -78	-271	6.2
6.3	-3301 -70	-198	.9889533	-3442 -61	-203	.9884413	-3600 -67	-211	.9879082	-3741 -66	-218	.9873533	-3897 -69	-225	.9867759	-4058 -72	-232	6.3
6.4	-2831 -64	-188	.9908163	-2955 -57	-173	.9903888	-3082 -61	-179	.9899435	-3214 -58	-185	.9894796	-3349 -65	-191	.9889967	-3491 -66	-197	6.4
6.5	-2418 -57	-141	.9923838	-2524 -53	-148	.9920281	-2834 -57	-151	.9916574	-2750 -58	-156	.9912710	-2889 -61	-162	.9908684	-2990 -62	-167	6.5
6.6	-2057 -51	-118	.9936989	-2149 -49	-123	.9934040	-2248 -61	-127	.9930963	-2344 -63	-132	.9927755	-2447 -65	-136	.9924411	-2554 -69	-141	6.6
6.7	-1744 -46	-99	.9947991	-1823 -44	-103	.9945553	-1908 -43	-106	.9943008	-1991 -47	-110	.9940353	-2079 -50	-114	.9937584	-2171 -50	-118	6.7
6.8	-1473 -41	-82	.9957170	-1642 -41	-83	.9955160	-1811 -41	-89	.9953062	-1683 -42	-92	.9950872	-1781 -44	-95	.9948586	-1839 -46	-99	6.8
6.9	-1242 -36	-88	.9964807	-1298 -38	-71	.9963156	-1389 -38	-74	.9961431	-1421 -38	-77	.9959630	-1488 -38	-79	.9957749	-1533 -40	-82	6.9
7.0	-1043 -31	-56	.9971146	-1099 -35	-59	.9969793	-1143 -32	-81	.9968379	-1195 -33	-83	.9966902	-1250 -34	-86	.9965359	-1306 -38	-88	7.0
7.1	-872 -27	-48	.9976392	-913 -30	-48	.9975287	-956 -28	-50	.9974132	-1002 -23	-62	.9972924	-1047 -24	-54	.9971663	-1097 -27	-58	7.1
7.2	-739 -24	-58	.9980725	-754 -24	-40	.9979825	-809 -24	-41	.9978883	-837 -26	-43	.9977899	-877 -26	-43	.9976870	-915 -27	-46	7.2
7.3	-606 -22	-81	.9984294	-635 -19	-32	.9983563	-666 -20	-34	.9982797	-696 -22	-35	.9981997	-729 -22	-36	.9981161	-764 -23	-37	7.3
7.4	-505 -18	-26	.9987228	-529 -16	-26	.9986635	-553 -18	-27	.9986015	-580 -19	-29	.9985366	-607 -20	-30	.9984688	-635 -20	-31	7.4
7.5	-418 -15	-21	.9989633	-437 -15	-21	.9989154	-458 -16	-22	.9988653	-480 -16	-23	.9988128	-502 -17	-24	.9987580	-528 -18	-25	7.5
7.6	-345 -13	-17	.9991601	-361 -13	-17	.9991215	-378 -15	-18	.9990811	-398 -13	-19	.9990388	-415 -14	-20	.9989946	-435 -15	-20	7.6
7.7	-285 -10	-13	.9993208	-297 -11	-14	.9992898	-312 -11	-14	.9992573	-327 -12	-15	.9992233	-343 -12	-13	.9991877	-359 -13	-16	7.7
7.8	-232 -8	-11	.9994518	-246 -9	-11	.9994269	-257 -9	-12	.9994008	-268 -10	-12	.9993735	-281 -11	-13	.9993450	-295 -10	-13	7.8
7.9	-193 -7	-9	.9995582	-200 -7	-9	.9995383	-209 -8	-9	.9995175	-221 -8	-10	.9994956	-230 -9	-10	.9994728	-242 -9	-11	7.9
8.0	-168 -6	-7	.9996446	-184 -6	-7	.9996288	-173 -6	-8	.9996121	-180 -7	-8	.9995947	-190 -7	-8	.9995764	-197 -8	-9	8.0
8.1	-128 -6	-6	.9997146	-134 -5	-8	.9997020	-140 -5	-6	.9996887	-147 -6	-6	.9996748	-153 -6	-8	.9996603	-162 -6	-7	8.1
8.2	-104 -4	-4	.9997712	-109 -4	-5	.9997612	-115 -4	-6	.9997506	-119 -4	-5	.9997396	-126 -5	-6	.9997280	-131 -5	-3	8.2
8.3	-88 -4	-4	.9998169	-90 -4	-4	.9998039	-93 -4	-4	.9998006	-99 -4	-4	.9997918	-102 -4	-4	.9997826	-106 -4	-4	8.3
8.4	-88		.9998536	-71		.9998473	-75		.9998407	-78		.9998338	-82		.9998266	-87		8.4
8.5	-56		.9998832	-59		.9998782	-81		.9998730	-84		.9998676	-88		.9998619	-71		8.5
8.6	-46		.9999069	-46		.9999030	-49		.9998989	-51		.9998946	-58		.9998901	-53		8.6
8.7	-36		.9999260	-38		.9999229	-40		.9999197	-43		.9999163	-44		.9999128	-47		8.7
8.8	-30		.9999412	-31		.9999388	-32		.9999362	-32		.9999336	-33		.9999308	-36		8.8
8.9	-23		.9999533	-24		.9999515	-26		.9999495	-28		.9999474	-28		.9999452	-29		8.9
9.0	-19		.9999630	-19		.9999616	-21		.9999600	-21		.9999584	-22		.9999567	-24		9.0
9.1	-15		.9999708	-15		.9999696	-18		.9999684	-17		.9999672	-19		.9999658	-18		9.1
9.2	-12		.9999769	-12		.9999760	-13		.9999751	-14		.9999741	-14		.9999731	-15		9.2
9.3	-10		.9999818	-10		.9999811	-10		.9999804	-12		.9999796	-11		.9999788	-12		9.3
9.4	-8		.9999856	-8		.9999851	-8		.9999845	-8		.9999840	-9		.9999833	-10		9.4
9.5	-6		.9999887	-7		.9999883	-8		.9999878	-7		.9999874	-7		.9999869	-8		9.5
9.6	-5		.9999911	-5		.9999908	-5		.9999905	-6		.9999901	-6		.9999897	-8		9.6
9.7	-4		.9999930	-4		.9999928	-4		.9999925	-5		.9999923	-5		.9999920	-5		9.7
9.8			.9999945			.9999943			.9999941			.9999939	-4		.9999937	-4		9.8
9.9			.9999957			.9999956			.9999954			.9999953			.9999951			9.9
10.0			.9999966			.9999965			.9999964			.9999963			.9999962			10.0
10.1			.9999974			.9999973			.9999972			.9999971			.9999970			10.1
10.2			.9999980			.9999979			.9999978			.9999978			.9999977			10.2
10.3			.9999984			.9999984			.9999983			.9999983			.9999982			10.3
10.4			.9999988			.9999987			.9999987			.9999986			.9999986			10.4
10.5			.9999990			.9999990			.9999990			.9999990			.9999989			10.5
10.6			.9999993			.9999992			.9999992			.9999992			.9999992			10.6
10.7			.9999994			.9999994			.9999994			.9999994			.9999994			10.7
10.8			.9999995			.9999995			.9999995			.9999995			.9999995			10.8
10.9			.9999997			.9999996			.9999996			.9999996			.9999996			10.9
11.0			.9999997			.9999997			.9999997			.9999997			.9999997			11.0
11.1			.9999998			.9999998			.9999998			.9999998			.9999998			11.1
11.2			.9999998			.9999998			.9999998			.9999998			.9999998			11.2
11.3			.9999999			.9999999			.9999999			.9999999			.9999998			11.3
11.4			.9999999			.9999999			.9999999			.9999999			.9999999			11.4
11.5			.9999999			.9999999			.9999999			.9999999			.9999999			11.5
11.6			.9999999			.9999999			.9999999			.9999999			.9999999			11.6
11.7			1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			11.7



u	p = 13.0		p = 13.2		p = 13.4		p = 13.6		p = 13.8		p = 14.0	
	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	u
·4	·0000000											·4
·5	·0000000	+4	·0000000	+1	·0000000	+1	·0000000	+1	·0000000	0	·0000000	·5
·6	·0000001	+6	·0000001	+3	·0000001	+3	·0000001	+2	·0000001	+1	·0000001	·6
·7	·0000007	+11	·0000007	+8	·0000007	+8	·0000007	+7	·0000007	+6	·0000007	·7
·8	·0000033	+20	·0000033	+15	·0000033	+15	·0000033	+12	·0000033	+9	·0000033	·8
·9	·0000122	+33	·0000033	+22	·0000021	+21	·0000016	+19	·0000013	+17	·0000010	·9
1.0	·0000380	+46	·0000098	+30	·0000079	+27	·0000063	+24	·0000051	+21	·0000041	1.0
1.1	·0001024	+61	·0000311	+43	·0000254	+34	·0000208	+28	·0000169	+21	·0000138	1.1
1.2	·0002461	+78	·0000852	+58	·0000708	+48	·0000588	+38	·0000488	+28	·0000404	1.2
1.3	·0005370	+98	·0002077	+82	·0001752	+68	·0001476	+52	·0001242	+38	·0001044	1.3
1.4	·0010792	+121	·0004592	+109	·0003924	+94	·0003349	+81	·0002855	+70	·0002432	1.4
1.5	·0020210	+149	·0009340	+187	·0008076	+163	·0006976	+144	·0006019	+126	·0005189	1.5
1.6	·0035596	+183	·0017683	+249	·0015456	+217	·0013497	+187	·0011775	+160	·0010263	1.6
1.7	·0059415	+224	·0031456	+321	·0027772	+281	·0024495	+241	·0021585	+208	·0019004	1.7
1.8	·0094577	+273	·0052988	+418	·0047213	+361	·0042029	+311	·0037380	+274	·0033215	1.8
1.9	·0144339	+331	·0085064	+531	·0076439	+461	·0068627	+397	·0061559	+335	·0055170	1.9
2.0	·0212147	+398	·0130841	+666	·0118501	+571	·0107232	+485	·0096950	+411	·0087580	2.0
2.1	·0301450	+475	·0193709	+821	·0176723	+751	·0161090	+649	·0146716	+566	·0133514	2.1
2.2	·0415491	+564	·0277114	+1004	·0254531	+881	·0233597	+761	·0214210	+661	·0196273	2.2
2.3	·0557092	+666	·0384353	+1217	·0352563	+1021	·0328114	+881	·0302799	+761	·0282919	2.3
2.4	·0728466	+783	·0518365	+1451	·0481955	+1211	·0447757	+1021	·0415667	+861	·0395583	2.4
2.5	·0931058	+917	·0681533	+1706	·0622694	+1481	·0572500	+1241	·0555609	+1061	·0518266	2.5
2.6	·1165431	+1068	·0875519	+2083	·1039654	+1781	·0980924	+1511	·0924871	+1261	·0871419	2.6
2.7	·1431211	+1247	·1101133	+2504	·1288175	+2141	·1220878	+1811	·1156325	+1511	·1094456	2.7
2.8	·1727086	+1456	·1358269	+2981	·1567474	+2581	·1491840	+2171	·1418943	+1811	·1348744	2.8
2.9	·2050854	+1697	·1645879	+3531	·1875857	+3141	·1792370	+2671	·1711541	+2211	·1633350	2.9
3.0	·2399527	+2000	·1962016	+4211	·2210787	+3781	·2120165	+3211	·2032053	+2711	·1946452	3.0
3.1	·2769455	+2347	·2303911	+4941	·2546894	+4411	·2427161	+3711	·2347625	+3111	·2285412	3.1
3.2	·3156492	+2731	·2668103	+5781	·2946622	+5111	·2844659	+4211	·2744735	+3511	·2646888	3.2
3.3	·3556161	+3166	·3045082	+6741	·3339387	+6011	·3233495	+4911	·3129342	+4111	·3026979	3.3
3.4	·3963828	+3654	·3446963	+7831	·3742749	+7011	·3634194	+5811	·3527052	+4811	·3421385	3.4
3.5	·4374865	+4207	·3852651	+9041	·4152079	+8211	·4042147	+6911	·3933288	+5911	·3825573	3.5
3.6	·4784801	+4826	·4263011	+10381	·4562816	+9411	·4452768	+8011	·4343453	+6911	·4234946	3.6
3.7	·5189443	+5511	·4673521	+11881	·4970608	+10711	·4861640	+9211	·4753075	+8011	·4644990	3.7
3.8	·5584983	+6266	·5079903	+13511	·5371425	+12211	·5264636	+10511	·5157940	+9111	·5051414	3.8
3.9	·5980666	+7087	·5478233	+15311	·5761650	+13711	·5658017	+11811	·5554198	+10311	·5450262	3.9
4.0	·6335846	+8000	·5865023	+17111	·6138144	+15211	·6038509	+13111	·5938436	+11311	·5837994	4.0
4.1	·6686005	+8947	·6237279	+19011	·6498286	+16811	·6403337	+14711	·6307741	+12611	·6211555	4.1
4.2	·7016755	+9951	·6592528	+21011	·7839981	+18711	·7750260	+16611	·7659717	+14611	·7568404	4.2
4.3	·7326823	+11031	·7928829	+23111	·8161663	+20811	·8077562	+18611	·7992502	+16611	·7906528	4.3
4.4	·7615416	+12271	·824763	+25311	·8472264	+23011	·8384035	+20511	·8304747	+18611	·8224437	4.4
4.5	·7882184	+13621	·8501249	+27711	·8741185	+25411	·8668950	+22411	·8595591	+20611	·8521136	4.5
4.6	·8127162	+15091	·8829276	+30211	·8998243	+27911	·8932010	+24411	·8864618	+22911	·8796089	4.6
4.7	·8350723	+16601	·9012649	+32811	·9233623	+30511	·9173301	+26911	·9111813	+24411	·9049172	4.7
4.8	·8553515	+18231	·9201719	+35511	·9447822	+33211	·9393237	+29411	·9337501	+26911	·9280622	4.8
4.9	·8736410	+19981	·9389560	+38311	·9641591	+36011	·9592503	+32011	·9542298	+29411	·9490978	4.9
5.0	·8900453	+21851	·9586999	+41211	·9815883	+38911	·9772000	+34911	·9727049	+31911	·9681027	5.0
5.1	·9046806	+23951	·9809802	+44211	·9971800	+41911	·9932795	+37911	·9892781	+34911	·9851753	5.1
5.2	·9176714	+26171	·9144094	+47311	·9110549	+45011	·9076070	+40911	·9040649	+37911	·9004279	5.2
5.3	·9291461	+28521	·9262854	+50511	·9233397	+48211	·9203080	+43811	·9171894	+40911	·9139828	5.3
5.4	·9392339	+31001	·9367375	+53911	·9341639	+51611	·9315118	+46711	·9287802	+43811	·9259680	5.4
5.5	·9480622	+3361	·9458943	+57411	·9436566	+54611	·9413480	+50011	·9389673	+46711	·9365134	5.5
5.6	·9557545	+3631	·9538805	+61011	·9519442	+57611	·9499441	+52411	·9478793	+50011	·9457485	5.6
5.7	·9624288	+3911	·9608162	+64711	·9591481	+60611	·9574234	+55211	·9556408	+52411	·9537994	5.7
5.8	·9681962	+4201	·9668145	+68511	·9653839	+63611	·9639031	+58011	·9623713	+55211	·9607871	5.8
5.9	·9731604	+4501	·9719815	+72511	·9707598	+67611	·9694940	+62411	·9681833	+58011	·9668264	5.9
6.0	·9774171	+4811	·9764153	+76611	·9753762	+71411	·9742987	+67011	·9731819	+62411	·9720248	6.0
6.1	·9810537	+5131	·9802058	+80811	·9793256	+75411	·9784121	+72011	·9774644	+67011	·9764817	6.1
6.2	·9841495	+5461	·9834346	+85211	·9826918	+79611	·9819204	+77011	·9811965	+72011	·9802882	6.2
6.3	·9867759	+5801	·9861754	+89711	·9855510	+83911	·9849020	+81411	·9842226	+77011	·9835273	6.3
6.4	·9889967	+6151	·9884940	+94411	·9879710	+88411	·9874271	+85911	·9868615	+81411	·9862736	6.4
6.5	·9908684	+6511	·9904492	+99211	·9900127	+93411	·9895584	+91411	·9890857	+85911	·9885941	6.5



u	p = 14.0		p = 14.2		p = 14.4		p = 14.6		p = 14.8		p = 15.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
.4													.4		
.5	+1		.0000000	0		.0000000	0		.0000000	+1		.0000000	0		.5
.6	+2		.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+1		.6
.7	+4		.0000000	+3		.0000000	+3		.0000000	+1		.0000000	+1		.7
.8	+6		.0000001	+5		.0000001	+5		.0000001	+2		.0000000	+2		.8
.9	+8		.0000008	+7		.0000006	+7		.0000005	+6		.0000003	+6		.9
1.0	+10		.0000032	+9		.0000026	+9		.0000021	+8		.0000016	+8		1.0
1.1	+12	+6	.0000112	+11	+6	.0000091	+11	+4	.0000074	+10	+6	.0000060	+10	+6	1.1
1.2	+14	+14	.0000334	+13	+13	.0000276	+13	+10	.0000228	+12	+6	.0000188	+12	+7	1.2
1.3	+16	+18	.0000877	+15	+15	.0000735	+15	+22	.0000616	+14	+19	.0000516	+14	+16	1.3
1.4	+18	+24	.0002070	+17	+17	.0001760	+17	+42	.0001495	+16	+27	.0001268	+16	+24	1.4
1.5	+20	+30	.0004469	+19	+19	.0003846	+19	+84	.0003306	+18	+73	.0002839	+18	+63	1.5
1.6	+22	+36	.0008937	+21	+21	.0007775	+21	+145	.0006757	+19	+128	.0005868	+19	+112	1.6
1.7	+24	+42	.0016163	+23	+23	.0014689	+23	+234	.0012897	+20	+209	.0011314	+20	+166	1.7
1.8	+26	+48	.0029488	+25	+25	.0026156	+25	+356	.0023180	+21	+321	.0020525	+21	+288	1.8
1.9	+28	+54	.0049401	+27	+27	.0044197	+27	+514	.0039508	+22	+468	.0035286	+22	+424	1.9
2.0	+30	+60	.0079048	+29	+29	.0071287	+29	+706	.0064235	+23	+650	.0057832	+23	+603	2.0
2.1	+32	+66	.0121400	+31	+31	.0110295	+31	+934	.0100124	+24	+865	.0090817	+24	+799	2.1
2.2	+34	+72	.0179694	+33	+33	.0164384	+33	+1186	.0150260	+25	+1106	.0137242	+25	+1030	2.2
2.3	+36	+78	.0257274	+35	+35	.0236870	+35	+1450	.0217917	+26	+1364	.0200328	+26	+1280	2.3
2.4	+38	+84	.0357405	+37	+37	.0331039	+37	+1716	.0306388	+27	+1620	.0283363	+27	+1537	2.4
2.5	+40	+90	.0483079	+39	+39	.0449954	+39	+1968	.0418796	+28	+1877	.0389516	+28	+1789	2.5
2.6	+42	+96	.0636816	+41	+41	.0596263	+41	+2191	.0557901	+29	+2104	.0521643	+29	+2019	2.6
2.7	+44	+102	.0820494	+43	+43	.0772019	+43	+2372	.0725915	+30	+2293	.0682103	+30	+2214	2.7
2.8	+46	+108	.1035213	+45	+45	.0978532	+45	+2493	.0924348	+31	+2431	.0872596	+31	+2363	2.8
2.9	+48	+114	.1281200	+47	+47	.1216267	+47	+2561	.1153895	+32	+2510	.1094033	+32	+2456	2.9
3.0	+50	+120	.1557776	+49	+49	.1484790	+49	+2569	.1414363	+33	+2624	.1346460	+33	+2487	3.0
3.1	+52	+126	.1863359	+51	+51	.1782766	+51	+2487	.1704660	+34	+2768	.1629026	+34	+2451	3.1
3.2	+54	+132	.2195534	+53	+53	.2108003	+53	+2363	.2028225	+35	+2835	.1940002	+35	+2351	3.2
3.3	+56	+138	.2551149	+55	+55	.2457548	+55	+2160	.2366107	+36	+2910	.2276846	+36	+2193	3.3
3.4	+58	+144	.2926454	+57	+57	.2827810	+57	+1919	.2731085	+37	+1954	.2636314	+37	+1984	3.4
3.5	+60	+150	.3317252	+59	+59	.3214709	+59	+1641	.3113806	+38	+1659	.3014591	+38	+1731	3.5
3.6	+62	+156	.3719070	+61	+61	.3613841	+61	+1336	.3509949	+39	+1394	.3407451	+39	+1448	3.6
3.7	+64	+162	.4127320	+63	+63	.4020645	+63	+1019	.3914989	+40	+1083	.3810416	+40	+1146	3.7
3.8	+66	+168	.4537460	+65	+65	.4430559	+65	+699	.4324357	+41	+768	.4218923	+41	+834	3.8
3.9	+68	+174	.4945133	+67	+67	.4839168	+67	+388	.4733592	+42	+459	.4628475	+42	+528	3.9
4.0	+70	+180	.5346282	+69	+69	.5242327	+69	+196	.5138469	+43	+165	.5034776	+43	+234	4.0
4.1	+72	+186	.5737248	+71	+71	.5636265	+71	-107	.5535110	+44	-105	.5433850	+44	-89	4.1
4.2	+74	+192	.6114840	+73	+73	.6017656	+73	-408	.5920064	+45	-847	.5822126	+45	-606	4.2
4.3	+76	+198	.6476371	+75	+75	.6383674	+75	-611	.6290366	+46	-556	.6196502	+46	-444	4.3
4.4	+78	+204	.6819683	+77	+77	.6732013	+77	-778	.6643565	+47	-413	.6554387	+47	-302	4.4
4.5	+80	+210	.7143140	+79	+79	.7060895	+79	-909	.6977741	+48	-269	.6893718	+48	-167	4.5
4.6	+82	+216	.7445613	+81	+81	.7369053	+81	-1006	.7291487	+49	-134	.7212949	+49	-99	4.6
4.7	+84	+222	.7726442	+83	+83	.7655701	+83	-1070	.7583890	+50	-1043	.7511034	+50	-1016	4.7
4.8	+86	+228	.7985393	+85	+85	.7920491	+85	-1105	.7854485	+51	-806	.7787392	+51	-766	4.8
4.9	+88	+234	.8222607	+87	+87	.8163467	+87	-1114	.8103213	+52	-612	.8041858	+52	-588	4.9
5.0	+90	+240	.8438546	+89	+89	.8385007	+89	-1101	.8330368	+53	-464	.8274634	+53	-464	5.0
5.1	+92	+246	.8633934	+91	+91	.8585570	+91	-1070	.8536536	+54	-366	.8486234	+54	-366	5.1
5.2	+94	+252	.8809706	+93	+93	.8766637	+93	-1024	.8722544	+55	-306	.8677426	+55	-306	5.2
5.3	+96	+258	.8966952	+95	+95	.8928663	+95	-968	.8889407	+56	-237	.8849177	+56	-237	5.3
5.4	+98	+264	.9106875	+97	+97	.9073025	+97	-904	.9038271	+57	-167	.9002607	+57	-167	5.4
5.5	+100	+270	.9230741	+99	+99	.9200977	+99	-835	.9170378	+58	-100	.9138935	+58	-100	5.5
5.6	+102	+276	.9339852	+101	+101	.9313816	+101	-764	.9287016	+59	-774	.9259442	+59	-774	5.6
5.7	+104	+282	.9435507	+103	+103	.9412846	+103	-693	.9389493	+60	-704	.9365436	+60	-714	5.7
5.8	+106	+288	.9518978	+105	+105	.9499351	+105	-623	.9479100	+61	-634	.9458216	+61	-646	5.8
5.9	+108	+294	.9591495	+107	+107	.9574575	+107	-556	.9557098	+62	-567	.9539055	+62	-588	5.9
6.0	+110	+300	.9654225	+109	+109	.9639704	+109	-492	.9624691	+63	-506	.9609175	+63	-513	6.0
6.1	+112	+306	.9708264	+111	+111	.9695857	+111	-433	.9683017	+64	-443	.9669735	+64	-462	6.1
6.2	+114	+312	.9754630	+113	+113	.9744074	+113	-378	.9733140	+65	-388	.9721819	+65	-397	6.2
6.3	+116	+318	.9794258	+115	+115	.9785314	+115	-326	.9776042	+66	-337	.9766433	+66	-346	6.3
6.4	+118	+324	.9828001	+117	+117	.9820453	+117	-283	.9812622	+67	-291	.9804500	+67	-299	6.4
6.5	+120	+330	.9856628	+119	+119	.9850283	+119	-243	.9843695	+68	-250	.9836856	+68	-269	6.5
6.6	+122	+336	.9880829	+121	+121	.9875515	+121	-206	.9869994	+69	-214	.9864259	+69	-220	6.6





$u$	$p = 14.0$		$p = 14.2$		$p = 14.4$		$p = 14.6$		$p = 14.8$		$p = 15.0$		$u$					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
6.5	-3666 -71	-196	.9880829	-8611 -71	-202	.9875515	-3962 -73	-208	.9869994	-4117 -76	-214	.9864259	-4278 -75	-220	.9858304	-4443 -76	-227	6.5
6.6	-3138 -66	-166	.9901219	-8268 -65	-171	.9896785	-8400 -67	-176	.9892176	-8686 -71	-182	.9887384	-8678 -70	-186	.9882404	-8821 -71	-192	6.6
6.7	-2679 -69	-140	.9918341	-7990 -69	-144	.9914655	-2996 -69	-149	.9910820	-8024 -65	-154	.9906831	-8147 -65	-159	.9902683	-8274 -66	-164	6.7
6.8	-2278 -64	-117	.9932673	-7372 -68	-121	.9929619	-2472 -64	-125	.9926440	-2578 -69	-129	.9923131	-2682 -69	-134	.9919688	-2792 -61	-136	6.8
6.9	-1927 -49	-98	.9944633	-2011 -81	-101	.9942111	-2096 -49	-106	.9939484	-2184 -64	-108	.9936749	-2277 -63	-112	.9933901	-2371 -65	-116	6.9
7.0	-1628 -44	-82	.9954582	-1696 -47	-85	.9952507	-1771 -44	-87	.9950344	-1847 -49	-91	.9948090	-1925 -49	-94	.9945743	-2007 -49	-96	7.0
7.1	-1366 -38	-68	.9962835	-1428 -42	-70	.9961132	-1439 -40	-73	.9959357	-1654 -44	-75	.9957506	-1621 -45	-78	.9955578	-1692 -45	-82	7.1
7.2	-1146 -34	-56	.9969660	-1195 -38	-58	.9968268	-1249 -36	-60	.9966816	-1305 -39	-62	.9965301	-1352 -41	-64	.9963721	-1419 -40	-66	7.2
7.3	-958 -30	-46	.9975290	-996 -34	-46	.9974155	-1043 -32	-50	.9972970	-1099 -36	-51	.9971734	-1137 -37	-53	.9970445	-1183 -38	-55	7.3
7.4	-795 -27	-38	.9979922	-833 -30	-30	.9978999	-870 -29	-41	.9978035	-908 -31	-42	.9977030	-949 -32	-44	.9975981	-992 -32	-46	7.4
7.5	-660 -24	-31	.9983721	-690 -27	-32	.9982973	-721 -26	-33	.9982192	-765 -27	-35	.9981377	-789 -27	-36	.9980525	-828 -27	-36	7.5
7.6	-547 -22	-25	.9986830	-571 -24	-26	.9986226	-698 -23	-27	.9985594	-724 -25	-28	.9984935	-753 -25	-29	.9984246	-782 -25	-30	7.6
7.7	-449 -19	-20	.9989368	-471 -20	-21	.9988881	-492 -18	-22	.9988372	-516 -23	-23	.9987840	-538 -19	-24	.9987285	-564 -19	-25	7.7
7.8	-372 -14	-16	.9991435	-388 -15	-17	.9991044	-407 -14	-16	.9990634	-424 -20	-18	.9990207	-445 -16	-19	.9989760	-464 -16	-20	7.8
7.9	-303 -11	-13	.9993114	-318 -12	-14	.9992800	-332 -12	-14	.9992472	-343 -15	-16	.9992129	-364 -13	-16	.9991771	-381 -14	-17	7.9
8.0	-249 -10	-11	.9994475	-280 -10	-11	.9994224	-272 -11	-12	.9993962	-286 -12	-12	.9993687	-297 -11	-12	.9993401	-312 -12	-14	8.0
8.1	-203 -8	-8	.9995576	-213 -8	-9	.9995376	-223 -9	-9	.9995166	-232 -10	-9	.9994948	-245 -9	-10	.9994719	-255 -10	-11	8.1
8.2	-166 -7	-7	.9996464	-173 -7	-7	.9996305	-162 -7	-7	.9996138	-190 -8	-8	.9995964	-198 -8	-8	.9995782	-207 -9	-6	8.2
8.3	-133 -6	-6	.9997179	-141 -6	-6	.9997052	-146 -6	-6	.9996920	-153 -8	-6	.9996782	-161 -7	-6	.9996638	-169 -8	-7	8.3
8.4	-109 -5	-4	.9997753	-113 -6	-4	.9997653	-119 -6	-6	.9997549	-125 -6	-6	.9997439	-130 -6	-5	.9997325	-136 -6	-6	8.4
8.5	-89 -4	-4	.9998214	-82 -4	-4	.9998135	-86 -4	-4	.9998053	-101 -4	-4	.9997966	-105 -6	-4	.9997876	-111 -4	-6	8.5
8.6	-71 -3	-3	.9998583	-75 -3	-3	.9998521	-77 -3	-3	.9998456	-82 -3	-3	.9998388	-86 -3	-3	.9998316	-88 -4	-4	8.6
8.7	-67 -3	-3	.9998877	-69 -3	-3	.9998828	-61 -3	-3	.9998777	-66 -3	-3	.9998724	-68 -3	-3	.9998668	-72 -3	-3	8.7
8.8	-46 -2	-2	.9999112	-46 -2	-2	.9999074	-60 -2	-2	.9999034	-65 -2	-2	.9998992	-66 -2	-2	.9998948	-67 -2	-2	8.8
8.9	-37 -2	-2	.9999299	-39 -2	-2	.9999269	-41 -2	-2	.9999238	-42 -2	-2	.9999205	-44 -2	-2	.9999171	-45 -2	-2	8.9
9.0	-36 -2	-2	.9999447	-31 -2	-2	.9999424	-33 -2	-2	.9999400	-34 -2	-2	.9999374	-36 -2	-2	.9999347	-36 -2	-2	9.0
9.1	-24 -1	-1	.9999565	-25 -1	-1	.9999547	-26 -1	-1	.9999528	-27 -1	-1	.9999508	-28 -1	-1	.9999487	-29 -1	-1	9.1
9.2	-19 -1	-1	.9999658	-19 -1	-1	.9999644	-20 -1	-1	.9999629	-21 -1	-1	.9999614	-23 -1	-1	.9999598	-24 -1	-1	9.2
9.3	-15 -1	-1	.9999732	-16 -1	-1	.9999721	-16 -1	-1	.9999709	-16 -1	-1	.9999697	-17 -1	-1	.9999685	-18 -1	-1	9.3
9.4	-12 -1	-1	.9999790	-12 -1	-1	.9999781	-12 -1	-1	.9999773	-13 -1	-1	.9999763	-14 -1	-1	.9999754	-16 -1	-1	9.4
9.5	-10 -1	-1	.9999836	-10 -1	-1	.9999829	-10 -1	-1	.9999822	-10 -1	-1	.9999815	-11 -1	-1	.9999808	-12 -1	-1	9.5
9.6	-6 -1	-1	.9999872	-6 -1	-1	.9999867	-8 -1	-1	.9999861	-8 -1	-1	.9999856	-9 -1	-1	.9999850	-9 -1	-1	9.6
9.7	-6 -1	-1	.9999900	-6 -1	-1	.9999896	-6 -1	-1	.9999892	-7 -1	-1	.9999888	-7 -1	-1	.9999883	-7 -1	-1	9.7
9.8	-6 -1	-1	.9999922	-5 -1	-1	.9999919	-5 -1	-1	.9999916	-5 -1	-1	.9999913	-6 -1	-1	.9999909	-5 -1	-1	9.8
9.9	-4 -1	-1	.9999939	-4 -1	-1	.9999937	-4 -1	-1	.9999935	-4 -1	-1	.9999932	-4 -1	-1	.9999930	-4 -1	-1	9.9
10.0			.9999953			.9999951			.9999949			.9999947			.9999945			10.0
10.1			.9999963			.9999962			.9999961			.9999959			.9999958			10.1
10.2			.9999972			.9999971			.9999970			.9999968			.9999967			10.2
10.3			.9999978			.9999977			.9999976			.9999976			.9999975			10.3
10.4			.9999983			.9999982			.9999982			.9999981			.9999981			10.4
10.5			.9999987			.9999986			.9999986			.9999986			.9999985			10.5
10.6			.9999990			.9999990			.9999989			.9999989			.9999988			10.6
10.7			.9999992			.9999992			.9999992			.9999991			.9999991			10.7
10.8			.9999994			.9999994			.9999994			.9999993			.9999993			10.8
10.9			.9999995			.9999995			.9999995			.9999995			.9999995			10.9
11.0			.9999996			.9999996			.9999996			.9999996			.9999996			11.0
11.1			.9999997			.9999997			.9999997			.9999997			.9999997			11.1
11.2			.9999998			.9999998			.9999998			.9999998			.9999998			11.2
11.3			.9999998			.9999998			.9999998			.9999998			.9999998			11.3
11.4			.9999999			.9999999			.9999999			.9999999			.9999999			11.4
11.5			.9999999			.9999999			.9999999			.9999999			.9999999			11.5
11.6			.9999999			.9999999			.9999999			.9999999			.9999999			11.6
11.7			1.0000000			1.0000000			1.0000000			1.0000000			.9999999			11.7
11.8															1.0000000			11.8







u	p = 16.0		p = 16.2		p = 16.4		p = 16.6		p = 16.8		p = 17.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
.5													.5		
.6													.6		
.7	+1		.0000000			.0000000			.0000000			.0000000	+1		.7
.8	+1		.0000001			.0000000	+3		.0000000	+1		.0000000	+2		.8
.9	+2		.0000003			.0000003	+5		.0000002	+3		.0000001	+4		.9
1.0	+3		.0000014			.0000011	+20		.0000009	+16		.0000007	+14		1.0
1.1	+7		.0000048			.0000039	+54		.0000032	+45		.0000026	+38		1.1
1.2	+15	+8	.0000145	+8		.0000121	+127	+4	.0000100	+100		.0000083	+81		1.2
1.3	+23	+13	.0000391	+12		.0000330	+275	+9	.0000277	+239	+8	.0000233	+207	+7	1.3
1.4	+31	+27	.0000954	+23		.0000814	+540	+20	.0000693	+474	+18	.0000590	+418	+15	1.4
1.5	+39	+50	.0002131	+46		.0001838	+984	+38	.0001583	+875	+35	.0001363	+776	+30	1.5
1.6	+47	+61	.0004414	+80		.0003846	+1699	+70	.0003348	+1499	+62	.0002912	+1345	+55	1.6
1.7	+55	+80	.0008554	+139		.0007523	+2937	+120	.0006612	+2421	+103	.0005806	+2194	+94	1.7
1.8	+63	+100	.0015631	+209		.0013869	+4988	+190	.0012297	+3898	+160	.0010894	+3340	+133	1.8
1.9	+71	+120	.0027111	+313		.0024253	+8815	+285	.0021680	+6974	+258	.0019365	+5939	+234	1.9
2.0	+79	+140	.0044876	+446		.0040452	+15011	+409	.0036437	+11850	+373	.0032795	+9650	+343	2.0
2.1	+87	+160	.0071227	+609		.0064662	+24899	+562	.0058659	+19984	+519	.0053175	+15837	+477	2.1
2.2	+95	+180	.0108843	+798		.0099468	+39494	+742	.0090835	+29773	+690	.0082892	+22977	+641	2.2
2.3	+103	+200	.0160697	+1009		.0147768	+58997	+945	.0135784	+43895	+886	.0124686	+32107	+827	2.3
2.4	+111	+220	.0229933	+1293		.0212665	+87119	+1162	.0196559	+63874	+1098	.0181551	+45187	+1033	2.4
2.5	+119	+240	.0319715	+1468		.0297318	+12884	+1387	.0276308	+18204	+1315	.0256613	+24293	+1249	2.5
2.6	+127	+260	.0433047	+1678		.0407775	+19699	+1802	.0378105	+26599	+1533	.0352968	+34185	+1482	2.6
2.7	+135	+280	.0572595	+1872		.0537787	+27843	+1801	.0504782	+37283	+1732	.0473508	+48706	+1684	2.7
2.8	+143	+300	.0740512	+2033		.0698642	+39050	+1970	.0658742	+52107	+1906	.0620748	+70719	+1842	2.8
2.9	+151	+320	.0938292	+2163		.0889002	+53920	+2097	.0841809	+72021	+2042	.0796658	+98958	+1986	2.9
3.0	+159	+340	.1166653	+2219		.1109782	+73010	+2177	.1055088	+98612	+2192	.1002526	+13461	+2085	3.0
3.1	+167	+360	.1425467	+2231		.1361072	+97374	+2202	.1298879	+13298	+2169	.1238855	+18118	+2135	3.1
3.2	+175	+380	.1713738	+2185		.1642096	+12805	+2169	.1572623	+17841	+2162	.1505302	+24291	+2131	3.2
3.3	+183	+400	.2029624	+2063		.1951225	+16685	+2082	.1874908	+23518	+2079	.1800670	+31288	+2072	3.3
3.4	+191	+420	.2370509	+1899		.2286039	+21591	+1942	.2203511	+29388	+1953	.2122936	+37942	+1960	3.4
3.5	+199	+440	.2733103	+1738		.2643414	+28088	+1757	.2555482	+35181	+1780	.2469330	+43222	+1800	3.5
3.6	+207	+460	.3113578	+1498		.3019655	+35445	+1534	.2927266	+41494	+1568	.2836446	+49160	+1600	3.6
3.7	+215	+480	.3507721	+1288		.3410641	+44111	+1283	.3314844	+48311	+1327	.3220373	+54794	+1368	3.7
3.8	+223	+500	.3911090	+960		.3811981	+54507	+1014	.3713886	+56894	+1065	.3616855	+62105	+1113	3.8
3.9	+231	+520	.4319176	+678		.4219176	+66800	+737	.4119912	+72009	+793	.4021442	+78108	+647	3.9
4.0	+239	+540	.4727548	+403		.4627766	+80894	+463	.4528447	+88257	+521	.4429649	+95107	+577	4.0
4.1	+247	+560	.5131986	+140		.5033472	+96870	+189	.4935157	+10692	+257	.4837099	+11341	+314	4.1
4.2	+255	+580	.5528594	-181		.5432308	+11470	-104	.5335975	+12698	-47	.5239651	+13221	+9	4.2
4.3	+263	+600	.5913882	-322		.5820675	+13411	-260	.5727198	+14827	-217	.5633505	+15177	-164	4.3
4.4	+271	+620	.6284833	-512		.6195430	+15624	-464	.6105564	+17181	-418	.6015282	+16778	-307	4.4
4.5	+279	+640	.6638935	-670		.6553931	+18177	-628	.6468299	+19787	-588	.6382081	+18166	-542	4.5
4.6	+287	+660	.6974201	-797		.6894055	+21093	-781	.6813147	+22024	-726	.6731514	+20124	-687	4.6
4.7	+295	+680	.7289158	-893		.7214196	+24307	-863	.7138371	+24411	-833	.7061713	+22609	-802	4.7
4.8	+303	+700	.7582828	-959		.7513254	+28000	-936	.7442744	+26844	-911	.7371322	+25188	-866	4.8
4.9	+311	+720	.7854691	-998		.7790592	+32192	-980	.7725513	+29417	-962	.7659472	+27842	-943	4.9
5.0	+319	+740	.8104638	-1012		.8046002	+36844	-1001	.7986365	+32133	-988	.7925740	+30574	-974	5.0
5.1	+327	+760	.8332923	-1006		.8279648	+42000	-998	.8225374	+34911	-991	.8170108	+33411	-983	5.1
5.2	+335	+780	.8540102	-982		.8492014	+47600	-980	.8442947	+37744	-976	.8392904	+36300	-972	5.2
5.3	+343	+800	.8726981	-944		.8683849	+53700	-945	.8639772	+40600	-945	.8594750	+39200	-945	5.3
5.4	+351	+820	.8894561	-896		.8856110	+60300	-900	.8816758	+43500	-908	.8776504	+42100	-905	5.4
5.5	+359	+840	.9043988	-830		.9009909	+67500	-845	.8974984	+46400	-831	.8939209	+45100	-836	5.5
5.6	+367	+860	.9176503	-778		.9146469	+75400	-785	.9115651	+49400	-793	.9084039	+48100	-799	5.6
5.7	+375	+880	.9293403	-713		.9267079	+83900	-722	.9240034	+52400	-731	.9212257	+51100	-739	5.7
5.8	+383	+900	.9396006	-648		.9373056	+92900	-658	.9349448	+55400	-657	.9325173	+54100	-678	5.8
5.9	+391	+920	.9485620	-584		.9465713	+102400	-594	.9445212	+58400	-603	.9424108	+57100	-613	5.9
6.0	+399	+940	.9563521	-522		.9546338	+112400	-532	.9528624	+61400	-541	.9510369	+60100	-551	6.0
6.1	+407	+960	.9630929	-463		.9616169	+122900	-472	.9600937	+64400	-482	.9585223	+59100	-491	6.1
6.2	+415	+980	.9689001	-408		.9676381	+133900	-418	.9663344	+67400	-425	.9649882	+58100	-434	6.2
6.3	+423	+1000	.9738816	-356		.9728073	+145400	-365	.9716966	+70400	-373	.9705486	+57100	-382	6.3
6.4	+431	+1020	.9781371	-310		.9772266	+157400	-317	.9762845	+73400	-325	.9753098	+56100	-333	6.4
6.5	+439	+1040	.9817577	-267		.9809894	+170000	-274	.9801936	+76400	-282	.9793697	+55100	-289	6.5



$u$	$p = 15.0$				$p = 15.2$				$p = 15.4$				$p = 15.6$				$p = 15.8$				$p = 16.0$	
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$u$
6.5	.9858304	-4443 -76	-227		.9852122	-4812 -75	-233		.9845706	-4784 -76	-240		.9839051	-4962 -84	-247		.9832149	-5144 -80	-253		.9824993	6.5
6.6	.9882404	-3821 -70	-192		.9877232	-3971 -70	-199		.9871860	-4123 -71	-205		.9866284	-4281 -80	-211		.9860496	-4441 -76	-217		.9854491	6.6
6.7	.9902683	-3274 -66	-164		.9898371	-3403 -66	-169		.9893891	-3539 -68	-174		.9889236	-3676 -75	-179		.9884402	-3819 -68	-185		.9879382	6.7
6.8	.9919688	-2792 -61	-138		.9916107	-2906 -60	-143		.9912383	-3021 -61	-147		.9908512	-3142 -68	-152		.9904489	-3265 -68	-157		.9900310	6.8
6.9	.9933901	-2371 -55	-115		.9930937	-2459 -65	-120		.9927854	-2571 -66	-124		.9924646	-2675 -61	-128		.9921311	-2784 -57	-132		.9917843	6.9
7.0	.9945743	-2097 -49	-98		.9943298	-2091 -50	-100		.9940754	-2179 -51	-104		.9938105	-2258 -55	-107		.9935349	-2380 -52	-111		.9932483	7.0
7.1	.9955578	-1822 -44	-82		.9953568	-1735 -45	-84		.9951475	-1836 -46	-86		.9949296	-1915 -49	-89		.9947027	-1994 -45	-93		.9944666	7.1
7.2	.9963721	-1419 -40	-66		.9962075	-1481 -41	-69		.9960360	-1548 -41	-72		.9958572	-1619 -44	-74		.9956711	-1680 -40	-77		.9954772	7.2
7.3	.9970445	-1188 -36	-55		.9969101	-1241 -36	-67		.9967699	-1294 -37	-69		.9966238	-1380 -36	-61		.9964715	-1406 -35	-64		.9963129	7.3
7.4	.9975981	-992 -32	-46		.9974886	-1034 -32	-47		.9973744	-1079 -33	-48		.9972554	-1127 -32	-51		.9971313	-1177 -31	-52		.9970019	7.4
7.5	.9980525	-839 -27	-36		.9979637	-861 -28	-39		.9978710	-898 -29	-40		.9977743	-939 -29	-42		.9976734	-979 -27	-43		.9975682	7.5
7.6	.9984246	-682 -23	-30		.9983527	-712 -24	-31		.9982777	-745 -25	-33		.9981993	-777 -25	-34		.9981176	-812 -23	-35		.9980324	7.6
7.7	.9987285	-564 -19	-25		.9986705	-590 -20	-26		.9986099	-618 -22	-27		.9985466	-643 -21	-28		.9984806	-671 -20	-29		.9984118	7.7
7.8	.9989760	-484 -16	-20		.9989293	-458 -16	-21		.9988805	-486 -18	-22		.9988296	-510 -18	-22		.9987765	-535 -17	-23		.9987210	7.8
7.9	.9991771	-381 -14	-17		.9991396	-398 -16	-17		.9991005	-417 -16	-17		.9990596	-436 -14	-18		.9990169	-464 -14	-19		.9989724	7.9
8.0	.9993401	-312 -12	-14		.9993101	-327 -12	-15		.9992788	-342 -13	-14		.9992461	-358 -12	-15		.9992119	-374 -11	-15		.9991762	8.0
8.1	.9994719	-265 -10	-11		.9994479	-265 -11	-11		.9994229	-278 -11	-11		.9993968	-291 -10	-12		.9993695	-304 -9	-12		.9993410	8.1
8.2	.9995782	-207 -9	-8		.9995592	-218 -10	-9		.9995392	-226 -10	-9		.9995184	-237 -8	-9		.9994967	-245 -8	-10		.9994740	8.2
8.3	.9996638	-169 -8	-7		.9996487	-177 -8	-7		.9996329	-186 -9	-7		.9996163	-193 -7	-7		.9995991	-202 -7	-8		.9995810	8.3
8.4	.9997325	-136 -6	-6		.9997205	-142 -7	-6		.9997080	-149 -7	-6		.9996949	-166 -6	-6		.9996812	-162 -6	-6		.9996669	8.4
8.5	.9997876	-111 -4	-5		.9997781	-115 -6	-4		.9997682	-120 -6	-5		.9997579	-127 -5	-6		.9997471	-133 -5	-5		.9997358	8.5
8.6	.9998316	-88 -4	-4		.9998242	-94 -4	-4		.9998164	-98 -4	-4		.9998082	-101 -4	-4		.9997997	-106 -4	-4		.9997908	8.6
8.7	.9998668	-72 -3	-3		.9998609	-74 -3	-3		.9998548	-78 -3	-3		.9998484	-82 -4	-3		.9998417	-86 -4	-3		.9998347	8.7
8.8	.9998948	-67 -3	-3		.9998902	-60 -3	-3		.9998854	-65 -3	-3		.9998804	-66 -3	-3		.9998751	-68 -3	-3		.9998696	8.8
8.9	.9999171	-48 -2	-2		.9999135	-49 -2	-2		.9999097	-50 -2	-2		.9999058	-53 -2	-2		.9999017	-56 -2	-2		.9998973	8.9
9.0	.9999347	-36 -1	-1		.9999319	-36 -1	-1		.9999290	-41 -1	-1		.9999259	-42 -1	-1		.9999227	-44 -1	-1		.9999193	9.0
9.1	.9999487	-29 -1	-1		.9999465	-30 -1	-1		.9999442	-31 -1	-1		.9999418	-33 -1	-1		.9999393	-34 -1	-1		.9999367	9.1
9.2	.9999598	-24 -1	-1		.9999581	-25 -1	-1		.9999563	-26 -1	-1		.9999544	-27 -1	-1		.9999525	-29 -1	-1		.9999504	9.2
9.3	.9999685	-18 -1	-1		.9999672	-20 -1	-1		.9999658	-20 -1	-1		.9999643	-20 -1	-1		.9999628	-21 -1	-1		.9999613	9.3
9.4	.9999754	-15 -1	-1		.9999743	-14 -1	-1		.9999733	-17 -1	-1		.9999722	-18 -1	-1		.9999710	-18 -1	-1		.9999698	9.4
9.5	.9999808	-12 -1	-1		.9999800	-13 -1	-1		.9999791	-11 -1	-1		.9999783	-13 -1	-1		.9999774	-14 -1	-1		.9999764	9.5
9.6	.9999850	-9 -1	-1		.9999844	-9 -1	-1		.9999838	-11 -1	-1		.9999831	-10 -1	-1		.9999824	-11 -1	-1		.9999817	9.6
9.7	.9999883	-7 -1	-1		.9999879	-8 -1	-1		.9999874	-8 -1	-1		.9999869	-9 -1	-1		.9999863	-8 -1	-1		.9999858	9.7
9.8	.9999909	-6 -1	-1		.9999906	-6 -1	-1		.9999902	-6 -1	-1		.9999898	-6 -1	-1		.9999894	-7 -1	-1		.9999890	9.8
9.9	.9999930	-4 -1	-1		.9999927	-6 -1	-1		.9999924	-6 -1	-1		.9999921	-5 -1	-1		.9999918	-6 -1	-1		.9999915	9.9
10.0	.9999945				.9999943	-4			.9999941	-4			.9999939	-4			.9999936	-6			.9999934	10.0
10.1	.9999958				.9999956				.9999954				.9999953				.9999951	-4			.9999949	10.1
10.2	.9999967				.9999966				.9999965				.9999964				.9999962				.9999961	10.2
10.3	.9999975				.9999974				.9999973				.9999972				.9999971				.9999970	10.3
10.4	.9999981				.9999980				.9999979				.9999978				.9999978				.9999977	10.4
10.5	.9999985				.9999984				.9999984				.9999983				.9999983				.9999982	10.5
10.6	.9999988				.9999988				.9999988				.9999987				.9999987				.9999986	10.6
10.7	.9999991				.9999991				.9999991				.9999990				.9999990				.9999989	10.7
10.8	.9999993				.9999993				.9999993				.9999993				.9999992				.9999992	10.8
10.9	.9999995				.9999995				.9999994				.9999994				.9999994				.9999994	10.9
11.0	.9999996				.9999996				.9999996				.9999996				.9999995				.9999995	11.0
11.1	.9999997				.9999997				.9999997				.9999997				.9999997				.9999996	11.1
11.2	.9999998				.9999998				.9999998				.9999997				.9999997				.9999997	11.2
11.3	.9999998				.9999998				.9999998				.9999998				.9999998				.9999998	11.3
11.4	.9999999				.9999999				.9999999				.9999999				.9999999				.9999998	11.4
11.5	.9999999				.9999999				.9999999				.9999999				.9999999				.9999999	11.5
11.6	.9999999				.9999999				.9999999				.9999999				.9999999				.9999999	11.6
11.7	.9999999				.9999999				.9999999				.9999999				.9999999				.9999999	11.7
11.8	1.0000000				1.0000000				1.0000000				1.0000000				.9999999				.9999999	11.8
11.9																	1.0000000				1.0000000	11.9

u	p = 16.0		p = 16.2		p = 16.4		p = 16.6		p = 16.8		p = 17.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
6.5	-5390 -88	-260	.9817577	-6519 -66	-267	.9809894	-6716 -84	-274	.9801936	-6914 -84	-282	.9793697	-6119 -87	-290	.9785169	-6328 -86	-296	6.5
6.6	-4607 -79	-223	.9848264	-4778 -84	-230	.9841806	-4981 -81	-231	.9835113	-5180 -82	-242	.9828177	-5312 -84	-240	.9820992	-5497 -88	-266	6.6
6.7	-3993 -76	-190	.9874173	-4113 -79	-196	.9868767	-4267 -77	-202	.9863160	-4425 -78	-207	.9857345	-4586 -81	-213	.9851318	-4754 -82	-219	6.7
6.8	-3365 -69	-161	.9895969	-3525 -72	-166	.9891461	-3698 -72	-171	.9886782	-3799 -73	-177	.9881927	-3942 -76	-182	.9876890	-4095 -78	-187	6.8
6.9	-2803 -62	-136	.9914239	-3007 -65	-141	.9910495	-3126 -66	-145	.9906605	-3246 -68	-149	.9902567	-3372 -69	-154	.9898374	-3500 -70	-159	6.9
7.0	-2457 -57	-114	.9929502	-2556 -60	-116	.9926403	-2659 -60	-122	.9923182	-2764 -65	-126	.9919835	-2871 -63	-130	.9916358	-2983 -64	-134	7.0
7.1	-2077 -52	-96	.9942209	-2162 -62	-99	.9939653	-2249 -55	-102	.9936995	-2340 -58	-106	.9934232	-2435 -58	-109	.9931359	-2530 -60	-112	7.1
7.2	-1749 -46	-80	.9952754	-1822 -62	-92	.9950654	-1898 -57	-85	.9948468	-1975 -62	-88	.9946194	-2054 -63	-91	.9943830	-2139 -65	-94	7.2
7.3	-1457 -41	-66	.9961477	-1520 -62	-68	.9959757	-1593 -64	-71	.9957966	-1660 -66	-73	.9956102	-1729 -68	-76	.9954162	-1799 -69	-78	7.3
7.4	-1227 -36	-54	.9968671	-1279 -57	-66	.9967267	-1334 -59	-66	.9965804	-1390 -59	-60	.9964281	-1445 -62	-63	.9962695	-1508 -63	-65	7.4
7.5	-1021 -30	-45	.9974586	-1066 -52	-46	.9973443	-1111 -55	-48	.9972252	-1168 -54	-50	.9971012	-1208 -57	-52	.9969720	-1259 -58	-53	7.5
7.6	-848 -27	-37	.9979435	-895 -48	-38	.9978508	-923 -50	-39	.9977542	-964 -52	-41	.9976535	-1005 -53	-42	.9975486	-1048 -53	-44	7.6
7.7	-702 -24	-30	.9983399	-732 -47	-31	.9982650	-765 -45	-32	.9981868	-798 -46	-33	.9981053	-832 -48	-35	.9980204	-869 -49	-36	7.7
7.8	-576 -20	-24	.9986631	-605 -40	-25	.9986027	-631 -41	-26	.9985396	-658 -41	-27	.9984739	-688 -42	-28	.9984053	-717 -43	-29	7.8
7.9	-476 -16	-20	.9989258	-498 -36	-20	.9988773	-519 -38	-21	.9988266	-543 -38	-22	.9987737	-568 -41	-23	.9987185	-590 -42	-24	7.9
8.0	-390 -14	-16	.9991389	-408 -34	-16	.9991000	-428 -35	-17	.9990593	-444 -36	-18	.9990169	-464 -38	-18	.9989727	-486 -39	-19	8.0
8.1	-316 -11	-13	.9993112	-335 -32	-13	.9992801	-348 -32	-14	.9992476	-363 -34	-14	.9992137	-380 -35	-15	.9991783	-398 -36	-15	8.1
8.2	-260 -9	-10	.9994502	-271 -30	-11	.9994254	-283 -30	-11	.9993996	-297 -32	-11	.9993725	-310 -33	-12	.9993443	-324 -34	-12	8.2
8.3	-211 -8	-8	.9995621	-220 -28	-8	.9995424	-230 -28	-9	.9995219	-242 -29	-9	.9995003	-251 -30	-10	.9994779	-263 -31	-10	8.3
8.4	-170 -7	-8	.9996520	-179 -26	-7	.9996364	-186 -27	-7	.9996200	-194 -28	-7	.9996030	-205 -29	-8	.9995852	-214 -30	-8	8.4
8.5	-139 -6	-6	.9997240	-145 -24	-5	.9997116	-151 -25	-6	.9996987	-158 -26	-6	.9996852	-165 -27	-6	.9996711	-172 -28	-6	8.5
8.6	-111 -5	-4	.9997815	-116 -22	-4	.9997717	-121 -24	-4	.9997616	-128 -25	-5	.9997509	-133 -26	-5	.9997398	-139 -27	-5	8.6
8.7	-90 -4	-4	.9998274	-94 -20	-4	.9998197	-99 -20	-4	.9998117	-102 -21	-4	.9998033	-107 -22	-4	.9997946	-113 -23	-4	8.7
8.8	-72 -4	-4	.9998639	-76 -18	-4	.9998578	-78 -19	-4	.9998516	-83 -20	-4	.9998450	-88 -21	-4	.9998381	-93 -22	-4	8.8
8.9	-57 -4	-4	.9998928	-60 -16	-4	.9998881	-63 -17	-4	.9998832	-65 -18	-4	.9998781	-69 -19	-4	.9998727	-72 -20	-4	8.9
9.0	-46 -4	-4	.9999158	-46 -14	-4	.9999121	-50 -15	-4	.9999083	-53 -16	-4	.9999043	-55 -17	-4	.9999001	-58 -18	-4	9.0
9.1	-37 -4	-4	.9999340	-39 -12	-4	.9999311	-40 -13	-4	.9999281	-41 -14	-4	.9999250	-44 -15	-4	.9999217	-48 -16	-4	9.1
9.2	-28 -4	-4	.9999483	-30 -10	-4	.9999461	-32 -11	-4	.9999438	-34 -12	-4	.9999413	-34 -13	-4	.9999388	-37 -14	-4	9.2
9.3	-24 -4	-4	.9999596	-24 -9	-4	.9999579	-28 -9	-4	.9999561	-27 -10	-4	.9999542	-28 -11	-4	.9999522	-28 -12	-4	9.3
9.4	-19 -4	-4	.9999685	-19 -8	-4	.9999671	-19 -8	-4	.9999657	-20 -9	-4	.9999643	-22 -10	-4	.9999628	-24 -11	-4	9.4
9.5	-13 -4	-4	.9999755	-13 -7	-4	.9999744	-13 -7	-4	.9999733	-16 -8	-4	.9999722	-17 -9	-4	.9999710	-17 -10	-4	9.5
9.6	-12 -4	-4	.9999809	-11 -6	-4	.9999801	-12 -6	-4	.9999793	-14 -7	-4	.9999784	-13 -8	-4	.9999775	-14 -9	-4	9.6
9.7	-9 -4	-4	.9999852	-10 -5	-4	.9999846	-11 -5	-4	.9999839	-11 -6	-4	.9999833	-10 -7	-4	.9999826	-12 -8	-4	9.7
9.8	-7 -4	-4	.9999885	-7 -4	-4	.9999880	-7 -4	-4	.9999876	-9 -5	-4	.9999870	-8 -6	-4	.9999865	-8 -7	-4	9.8
9.9	-6 -4	-4	.9999911	-6 -4	-4	.9999907	-6 -4	-4	.9999904	-6 -5	-4	.9999900	-7 -6	-4	.9999896	-7 -7	-4	9.9
10.0	-4 -4	-4	.9999931	-4 -4	-4	.9999929	-4 -4	-4	.9999926	-5 -5	-4	.9999923	-6 -6	-4	.9999920	-6 -7	-4	10.0
10.1	-4 -4	-4	.9999947	-4 -4	-4	.9999945	-4 -4	-4	.9999943	-4 -5	-4	.9999940	-4 -6	-4	.9999938	-4 -7	-4	10.1
10.2	-4 -4	-4	.9999959	-4 -4	-4	.9999958	-4 -4	-4	.9999956	-4 -5	-4	.9999954	-4 -6	-4	.9999952	-4 -7	-4	10.2
10.3	-4 -4	-4	.9999969	-4 -4	-4	.9999967	-4 -4	-4	.9999966	-4 -5	-4	.9999965	-4 -6	-4	.9999963	-4 -7	-4	10.3
10.4	-4 -4	-4	.9999976	-4 -4	-4	.9999975	-4 -4	-4	.9999974	-4 -5	-4	.9999973	-4 -6	-4	.9999972	-4 -7	-4	10.4
10.5	-4 -4	-4	.9999981	-4 -4	-4	.9999981	-4 -4	-4	.9999980	-4 -5	-4	.9999979	-4 -6	-4	.9999979	-4 -7	-4	10.5
10.6	-4 -4	-4	.9999986	-4 -4	-4	.9999985	-4 -4	-4	.9999985	-4 -5	-4	.9999984	-4 -6	-4	.9999984	-4 -7	-4	10.6
10.7	-4 -4	-4	.9999989	-4 -4	-4	.9999989	-4 -4	-4	.9999988	-4 -5	-4	.9999988	-4 -6	-4	.9999987	-4 -7	-4	10.7
10.8	-4 -4	-4	.9999992	-4 -4	-4	.9999991	-4 -4	-4	.9999991	-4 -5	-4	.9999991	-4 -6	-4	.9999990	-4 -7	-4	10.8
10.9	-4 -4	-4	.9999994	-4 -4	-4	.9999993	-4 -4	-4	.9999993	-4 -5	-4	.9999993	-4 -6	-4	.9999993	-4 -7	-4	10.9
11.0	-4 -4	-4	.9999995	-4 -4	-4	.9999995	-4 -4	-4	.9999995	-4 -5	-4	.9999995	-4 -6	-4	.9999994	-4 -7	-4	11.0
11.1	-4 -4	-4	.9999996	-4 -4	-4	.9999996	-4 -4	-4	.9999996	-4 -5	-4	.9999996	-4 -6	-4	.9999996	-4 -7	-4	11.1
11.2	-4 -4	-4	.9999997	-4 -4	-4	.9999997	-4 -4	-4	.9999997	-4 -5	-4	.9999997	-4 -6	-4	.9999997	-4 -7	-4	11.2
11.3	-4 -4	-4	.9999998	-4 -4	-4	.9999998	-4 -4	-4	.9999998	-4 -5	-4	.9999998	-4 -6	-4	.9999998	-4 -7	-4	11.3
11.4	-4 -4	-4	.9999998	-4 -4	-4	.9999998	-4 -4	-4	.9999998	-4 -5	-4	.9999998	-4 -6	-4	.9999998	-4 -7	-4	11.4
11.5	-4 -4	-4	.9999999	-4 -4	-4	.9999999	-4 -4	-4	.9999999	-4 -5	-4	.9999999	-4 -6	-4	.9999999	-4 -7	-4	11.5
11.6	-4 -4	-4	.9999999	-4 -4	-4	.9999999	-4 -4	-4	.9999999	-4 -5	-4	.9999999	-4 -6	-4	.9999999	-4 -7	-4	11.6
11.7	-4 -4	-4	.9999999	-4 -4	-4	.9999999	-4 -4	-4	.9999999	-4 -5	-4	.9999999	-4 -6	-4	.9999999	-4 -7	-4	11.7
11.8	-4 -4	-4	.9999999	-4 -4	-4	.9999999	-4 -4	-4	.9999999	-4 -5	-4	.9999999	-4 -6	-4	.9999999	-4 -7	-4	11.8
11.9	-4 -4	-4	1.0000000	-4 -4	-4	1.0000000	-4 -4	-4	1.0000000	-4 -5	-4	1.0000000	-4 -6	-4	1.0000000	-4 -7	-4	11.9



u	p = 17.0			p = 17.2			p = 17.4			p = 17.6			p = 17.8			p = 18.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	u
.7	.0000000			.0000000			.0000000			.0000000			.0000000			.0000000	.7
.8	.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+1		.0000000	.8
.9	.0000001	+2		.0000001	+3		.0000001	+2		.0000001	+1		.0000001	+2		.0000001	.9
1.0	.0000006	+10		.0000005	+8		.0000004	+7		.0000003	+7		.0000002	+6		.0000002	1.0
1.1	.0000021	+17		.0000017	+15		.0000014	+11		.0000012	+8		.0000009	+8		.0000008	1.1
1.2	.0000069	+23		.0000057	+20		.0000047	+19		.0000039	+18		.0000032	+16		.0000027	1.2
1.3	.0000196	+79		.0000165	+68		.0000138	+66		.0000116	+60		.0000097	+50		.0000081	1.3
1.4	.0000502	+179		.0000426	+153	+5	.0000362	+133	+4	.0000307	+114		.0000260	+98		.0000221	1.4
1.5	.0001173	+365	+6	.0001008	+321	+12	.0000865	+279	+9	.0000743	+245	+8	.0000637	+214	+7	.0000545	1.5
1.6	.0002531	+687	+25	.0002198	+608	+22	.0001907	+539	+19	.0001653	+474	+17	.0001432	+418	+16	.0001240	1.6
1.7	.0005094	+1205	+50	.0004466	+1205	+42	.0003913	+1205	+37	.0003425	+1205	+33	.0002996	+1205	+29	.0002619	1.7
1.8	.0009644	+1987	+64	.0008530	+1987	+75	.0007540	+1987	+66	.0006659	+1987	+59	.0005877	+1987	+52	.0005183	1.8
1.9	.0017284	+3089	+136	.0015415	+3089	+124	.0013738	+3089	+109	.0012234	+3089	+99	.0010887	+3089	+88	.0009681	1.9
2.0	.0029496	+4572	+212	.0026509	+4572	+192	.0023807	+4572	+173	.0021365	+4572	+157	.0019160	+4572	+141	.0017170	2.0
2.1	.0048168	+6460	+312	.0043601	+6460	+286	.0039439	+6460	+260	.0035650	+6460	+237	.0032201	+6460	+213	.0029066	2.1
2.2	.0075590	+8750	+440	.0068883	+8750	+406	.0062728	+8750	+371	.0057083	+8750	+342	.0051910	+8750	+313	.0047174	2.2
2.3	.0114415	+11403	+595	.0104919	+11403	+553	.0096146	+11403	+510	.0088047	+11403	+472	.0080576	+11403	+437	.0073689	2.3
2.4	.0167576	+14303	+775	.0154574	+14303	+775	.0142486	+14303	+728	.0132547	+14303	+682	.0120834	+14303	+654	.0111166	2.4
2.5	.0238167	+17430	+973	.0220904	+17430	+973	.0204759	+17430	+914	.0189673	+17430	+850	.0175586	+17430	+785	.0162442	2.5
2.6	.0329293	+20535	+1183	.0307012	+20535	+1183	.0286058	+20535	+1118	.0266369	+20535	+999	.0247881	+20535	+943	.0230534	2.6
2.7	.0443899	+24840	+1594	.0415886	+24840	+1594	.0389403	+24840	+1505	.0364385	+24840	+1391	.0340769	+24840	+1340	.0318493	2.7
2.8	.0584596	+29890	+1928	.0550222	+29890	+1928	.0517563	+29890	+1870	.0486555	+29890	+1754	.0457138	+29890	+1697	.0429248	2.8
2.9	.0753493	+35931	+2393	.0712256	+35931	+2393	.0672889	+35931	+2305	.0635336	+35931	+2191	.0599537	+35931	+2141	.0565435	2.9
3.0	.0952049	+43181	+2908	.0903610	+43181	+2908	.0857159	+43181	+2908	.0812647	+43181	+2800	.0770021	+43181	+2700	.0729232	3.0
3.1	.1180966	+51700	+3509	.1125176	+51700	+3509	.1071446	+51700	+3509	.1019736	+51700	+3400	.0970005	+51700	+3300	.0922209	3.1
3.2	.1440112	+61800	+4207	.1377029	+61800	+4207	.1316028	+61800	+4207	.1257079	+61800	+4100	.1200152	+61800	+4000	.1145216	3.2
3.3	.1728503	+73600	+5002	.1658398	+73600	+5002	.1590342	+73600	+5002	.1524319	+73600	+4900	.1460311	+73600	+4800	.1398299	3.3
3.4	.2044321	+87300	+5904	.1967669	+87300	+5904	.1892981	+87300	+5904	.1820256	+87300	+5800	.1749488	+87300	+5700	.1680668	3.4
3.5	.2384979	+102900	+6907	.2302444	+102900	+6907	.2221740	+102900	+6907	.2142878	+102900	+6800	.2065865	+102900	+6700	.1990706	3.5
3.6	.2747225	+120400	+8002	.2659633	+120400	+8002	.2573695	+120400	+8002	.2489434	+120400	+7900	.2406870	+120400	+7800	.2326018	3.6
3.7	.3127271	+139800	+9207	.3035574	+139800	+9207	.2945320	+139800	+9207	.2856542	+139800	+9100	.2769268	+139800	+9000	.2683527	3.7
3.8	.3520938	+161200	+10502	.3426181	+161200	+10502	.3332627	+161200	+10502	.3240319	+161200	+10400	.3149295	+161200	+10300	.3059592	3.8
3.9	.3923818	+185600	+11807	.3827093	+185600	+11807	.3731317	+185600	+11807	.3636537	+185600	+11700	.3542800	+185600	+11600	.3450149	3.9
4.0	.4331428	+213000	+13202	.4233839	+213000	+13202	.4136937	+213000	+13202	.4040773	+213000	+13100	.3945399	+213000	+13000	.3850862	4.0
4.1	.4749355	+243400	+14707	.4641981	+243400	+14707	.4545034	+243400	+14707	.4448566	+243400	+14600	.4352629	+243400	+14500	.4257283	4.1
4.2	.5183393	+276800	+16302	.5074254	+276800	+16302	.4951292	+276800	+16302	.4855559	+276800	+16200	.4760110	+276800	+16100	.4664996	4.2
4.3	.5633648	+313200	+17907	.5545681	+313200	+17907	.5451655	+313200	+17907	.5357625	+313200	+17800	.5257625	+313200	+17700	.5163641	4.3
4.4	.5924632	+352600	+19602	.5833665	+352600	+19602	.5742429	+352600	+19602	.5650973	+352600	+19500	.5559346	+352600	+19400	.5467599	4.4
4.5	.6295321	+395000	+21407	.6208063	+395000	+21407	.6120351	+395000	+21407	.6032231	+395000	+21300	.5943747	+395000	+21200	.5854944	4.5
4.6	.6649195	+440400	+23302	.6566227	+440400	+23302	.6482649	+440400	+23302	.6398501	+440400	+23200	.6313823	+440400	+23100	.6228656	4.6
4.7	.6984254	+488800	+25307	.6906025	+488800	+25307	.6827061	+488800	+25307	.6747394	+488800	+25200	.6667060	+488800	+25100	.6586095	4.7
4.8	.7299015	+540200	+27402	.7225847	+540200	+27402	.7151847	+540200	+27402	.7077041	+540200	+27300	.7001461	+540200	+27200	.6925134	4.8
4.9	.7592487	+594600	+29607	.7524580	+594600	+29607	.7455772	+594600	+29607	.7386084	+594600	+29500	.7315541	+594600	+29400	.7244166	4.9
5.0	.7864141	+652000	+31902	.7801582	+652000	+31902	.7738080	+652000	+31902	.7673651	+652000	+31800	.7608313	+652000	+31700	.7542084	5.0
5.1	.8113859	+712400	+34307	.8056638	+712400	+34307	.7998454	+712400	+34307	.7939320	+712400	+34200	.7879247	+712400	+34100	.7818249	5.1
5.2	.8341889	+775800	+36802	.8289907	+775800	+36802	.8236965	+775800	+36802	.8183069	+775800	+36700	.8128227	+775800	+36600	.8072449	5.2
5.3	.8548782	+842200	+39407	.8501872	+842200	+39407	.8454019	+842200	+39407	.8405228	+842200	+39300	.8355503	+842200	+39200	.8304848	5.3
5.4	.8735345	+912600	+42102	.8693279	+912600	+42102	.8650304	+912600	+42102	.8606422	+912600	+42000	.8561631	+912600	+41900	.8515932	5.4
5.5	.8902578	+986000	+44907	.8865087	+986000	+44907	.8826732	+986000	+44907	.8787510	+986000	+44800	.8747419	+986000	+44700	.8706455	5.5
5.6	.9051629	+1063400	+47802	.9018412	+1063400	+47802	.8984384	+1063400	+47802	.8949540	+1063400	+47700	.8913874	+1063400	+47600	.8877381	5.6
5.7	.9187443	+1144800	+50807	.9154481	+1144800	+50807	.9124466	+1144800	+50807	.9093691	+1144800	+50700	.9062148	+1144800	+50600	.9029832	5.7
5.8	.9300222	+1230200	+53902	.9274587	+1230200	+53902	.9248259	+1230200	+53902	.9221230	+1230200	+53800	.9193493	+1230200	+53700	.9165039	5.8
5.9	.9402391	+1319600	+57107	.9380052	+1319600	+57107	.9357082	+1319600	+57107	.9333473	+1319600	+57000	.9309216	+1319600	+56900	.9284303	5.9
6.0	.9491563	+1413000	+60402	.9472197	+1413000	+60402	.9452261	+1413000	+60402	.9431748	+1413000	+60300	.9410647	+1413000	+60200	.9388951	6.0
6.1	.9569018	+1510400	+63807	.9552313	+1510400	+63807	.9535099	+1510400	+63807	.9517366	+1510400	+63700	.9499105	+1510400	+63600	.9480309	6.1
6.2	.9635985	+1611800	+67302	.9621645	+1611800	+67302	.9606852	+1611800	+67302	.9591599	+1611800	+67200	.9575875	+1611800	+67100	.9559672	6.2
6.3	.9693623	+1717200	+70907	.9681371	+1717200	+70907	.9668720	+1717200	+70907	.9655662	+1717200	+70800	.9642188	+1717200	+70700	.9628290	6.3
6.4	.9743018	+1826600	+74602	.9732597	+1826600	+74602	.9721827	+1826600	+74602	.9710700	+1826600	+74500	.9699208	+1826600	+74400	.9687343	6.4
6.5	.9785169	+1940000	+78407	.9776345	+1940000	+78407	.9767217	+1940000	+78407	.9757779	+1940000	+78300	.9748022	+1940000	+78200	.9737939	6.5



$u$	$p = 18.0$		$p = 18.2$		$p = 18.4$		$p = 18.6$		$p = 18.8$		$p = 19.0$		$u$		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
.7													.7		
.8			.0000000			.0000000			.0000000			.0000000			.8
.9	+2 +0		.0000000	+2 +2		.0000000	+1 +1		.0000000	+1 +1		.0000000	+1 +1		.9
1.0	+4 +7		.0000002	+4 +6		.0000001	+3 +4		.0000001	+2 +3		.0000001	+2 +3		1.0
1.1	+13 +13		.0000006	+12 +11		.0000005	+9 +11		.0000004	+6 +10		.0000003	+5 +7		1.1
1.2	+28 +28		.0000022	+30 +26		.0000018	+26 +19		.0000015	+23 +14		.0000012	+18 +17		1.2
1.3	+88 +47		.0000068	+73 +45		.0000057	+62 +42		.0000047	+54 +37		.0000039	+47 +29		1.3
1.4	+184 +99	+6	.0000187	+161 +77	+5	.0000158	+140 +89	+4	.0000133	+122 +82	+4	.0000113	+108 +57		1.4
1.5	+371 +116	+13	.0000467	+326 +117	+11	.0000399	+287 +107	+10	.0000341	+252 +98	+8	.0000292	+220 +92	+7	1.5
1.6	+684 +188	+25	.0001073	+698 +176	+21	.0000927	+541 +162	+19	.0000801	+480 +150	+17	.0000691	+427 +139	+15	1.6
1.7	+1195 +248	+45	.0002287	+1366 +291	+41	.0001996	+267 +218	+36	.0001741	+232 +89	+31	.0001517	+192 +132	+28	1.7
1.8	+1934 +308	+78	.0004567	+2755 +293	+71	.0004022	+1691 +279	+62	.0003539	+1441 +263	+66	.0003112	+1203 +251	+40	1.8
1.9	+2991 +359	+127	.0008602	+5799 +368	+116	.0007639	+2504 +374	+102	.0006778	+2287 +324	+93	.0006010	+2088 +307	+83	1.9
2.0	+4407 +389	+196	.0015376	+10688 +854	+178	.0013760	+3731 +877	+180	.0012304	+3487 +364	+148	.0010996	+3180 +357	+131	2.0
2.1	+8212 +386	+287	.0026218	+17811 +399	+262	.0023632	+5378 +385	+241	.0021287	+4991 +392	+220	.0019162	+4629 +379	+200	2.1
2.2	+13497 +403		.0042841	+27843 +371		.0038879	+7384 +373		.0035261	+6907 +381		.0031957	+6457 +379		2.2
2.3	+20922 +545		.0067347	+43063 +506		.0061510	+6756 +468		.0056142	+9204 +438		.0051209	+8664 +404		2.3
2.4	+31799 +196	+708	.0102206	+67123 +306	+661	.0093907	+12467 +227	+619	.0086227	+12829 +260	+578	.0079125	+11213 +370	+339	2.4
2.5	+46816 +34	+890	.0150188	+100999 +69	+837	.0138771	+15395 +104	+788	.0128142	+14706 +133	+741	.0118254	+14032 +160	+696	2.5
2.6	+70967 +122	+1092	.0214269	+151444 +229	+1096	.0199030	+21847 +149	+972	.0184763	+17175 +127	+819	.0171415	+17013 +137	+868	2.6
2.7	+102796 +293	+1278	.0297494	+22107 +255	+1220	.0277716	+21410 +209	+1161	.0259099	+20713 +171	+1106	.0241587	+20017 +137	+1063	2.7
2.8	+154493 +458	+1468	.0402826	+34815 +317	+1408	.0377812	+24184 +379	+1350	.0354148	+28340 +339	+1292	.0331776	+29886 +298	+1297	2.8
2.9	+22710 +698	+1640	.0532973	+57106 +571	+1681	.0502092	+36579 +537	+1626	.0472737	+26028 +498	+1469	.0444851	+25457 +458	+1413	2.9
3.0	+32910 +720	+1784	.0690226	+88826 +659	+1731	.0652951	+28437 +659	+1678	.0617354	+28015 +584	+1626	.0583383	+27570 +506	+1374	3.0
3.1	+49030 +904	+1892	.0876305	+129851 +782	+1846	.0832247	+29532 +763	+1800	.0798989	+29374 +742	+1754	.0764985	+29077 +712	+1706	3.1
3.2	+70076 +836	+1935	.1092235	+183054 +839	+1921	.1041175	+30064 +822	+1893	.0991998	+29988 +805	+1843	.0944664	+29872 +796	+1806	3.2
3.3	+99285 +827	+1072	.1338259	+250505 +831	+1947	.1280167	+32674 +830	+1921	.1223995	+29797 +823	+1892	.1169715	+29571 +819	+1862	3.3
3.4	+137699 +778	+1939	.1613788	+328958 +788	+1998	.1548833	+28454 +801	+1910	.1485789	+26773 +807	+1893	.1424637	+29048 +817	+1873	3.4
3.5	+19274 +682	+1856	.1917402	+42657 +709	+1855	.1845953	+26433 +731	+1852	.1776356	+26849 +749	+1840	.1708605	+27404 +784	+1838	3.5
3.6	+27217 +564	+1737	.2246893	+52960 +593	+1738	.2169506	+23581 +620	+1745	.2093865	+24362 +661	+1759	.2019977	+24998 +674	+1753	3.6
3.7	+37555 +423	+1358	.2599344	+64950 +451	+1630	.2516740	+20309 +499	+1699	.2435736	+21131 +523	+1616	.2356347	+21918 +555	+1630	3.7
3.8	+50423 +272	+1355	.2971245	+78475 +303	+1387	.2884283	+16443 +344	+1416	.2798738	+17389 +380	+1442	.2714635	+18282 +415	+1466	3.8
3.9	+66156 +112	+1128	.3358625	+93105 +157	+1167	.3268269	+12283 +191	+1204	.3179117	+13243 +229	+1239	.3091205	+14231 +266	+1272	3.9
4.0	+85708 +32	+885	.3757210	+10874 +1	+930	.3664488	+7832 +38	+873	.3572739	+8890 +76	+1015	.3482006	+9914 +111	+1054	4.0
4.1	+11292 +170	+633	.4162569	+12931 +139	+684	.4068539	+3393 +104	+732	.3975241	+4441 +72	+778	.3882721	+5486 +35	+822	4.1
4.2	+15264 +253	+398	.4570270	+15199 +154	+439	.4475983	+842 +228	+488	.4382184	+74 +22	+537	.4288922	+1093 +170	+584	4.2
4.3	+20915 +377	+150	.4976020	+18909 +369	+261	.4882485	+5649 +334	+261	.4789201	+4096 +311	+300	.4696216	+3130 +282	+349	4.3
4.4	+28499 +450	+73	.5375780	+23670 +432	+23	.5283938	+822 +417	+26	.5192122	+7955 +399	+74	.5100380	+7071 +380	+122	4.4
4.5	+38333 +494	+272	.5765870	+29191 +486	+228	.5676569	+12178 +478	+180	.5587088	+11413 +468	+134	.5497473	+10639 +447	+88	4.5
4.6	+50673 +513	+448	.6143042	+35808 +508	+409	.6057022	+15061 +505	+364	.5970639	+14417 +503	+321	.5883934	+13740 +492	+279	4.6
4.7	+66490 +520	+595	.6504534	+43874 +623	+559	.6422414	+17439 +621	+621	.6339773	+19158 +514	+483	.6256649	+16398 +514	+416	4.7
4.8	+86007 +500	+715	.6848092	+53985 +803	+683	.6770367	+19296 +607	+704	.6691991	+18901 +517	+618	.6612996	+18476 +518	+585	4.8
4.9	+11114 +468	+806	.7171985	+66933 +477	+780	.7099024	+26048 +458	+780	.7025308	+20869 +490	+728	.6950867	+20068 +500	+697	4.9
5.0	+14753 +427	+871	.7474985	+82644 +441	+850	.7407035	+21609 +449	+829	.7338256	+21347 +450	+807	.7268670	+21160 +407	+783	5.0
5.1	+19965 +375	+910	.7756341	+101954 +390	+895	.7693538	+21921 +461	+879	.7629857	+21866 +437	+862	.7565313	+21785 +436	+844	5.1
5.2	+26901 +322	+927	.8015743	+123178 +329	+917	.7958120	+21933 +348	+906	.7899592	+21968 +359	+893	.7840171	+21984 +376	+880	5.2
5.3	+36215 +269	+925	.8253267	+148483 +293	+918	.8200769	+21697 +398	+911	.8147359	+21711 +369	+904	.8093045	+21807 +321	+893	5.3
5.4	+48661 +210	+906	.8469328	+178929 +226	+903	.8421821	+20865 +233	+900	.8373415	+21145 +264	+896	.8324112	+21099 +265	+891	5.4
5.5	+64957 +183	+873	.8664619	+21581 +189	+874	.8621910	+20098 +189	+874	.8578326	+20326 +194	+873	.8533870	+20645 +210	+872	5.5
5.6	+86475 +109	+830	.8840059	+26040 +124	+833	.8801903	+19040 +130	+838	.8762912	+19311 +137	+838	.8723083	+19571 +165	+840	5.6
5.7	+11424 +65	+779	.8996736	+31551 +70	+784	.8962856	+17854 +89	+785	.8928187	+18150 +97	+794	.8892725	+18441 +112	+797	5.7
5.8	+15393 +26	+723	.9135862	+38623 +37	+730	.9105955	+16679 +44	+736	.9075312	+16892 +44	+742	.9043926	+17199 +166	+749	5.8
5.9	+20418 +1	+684	.9258725	+47493 +5	+672	.9232475	+16290 +17	+680	.9205545	+15578 +21	+687	.9177928	+15899 +28	+694	5.9
6.0	+27399 +31	+605	.9366650	+58608 +24	+613	.9343735	+13924 +15	+621	.9320200	+14243 +11	+629	.9296036	+14661 +21	+637	6.0
6.1	+36215 +55	+545	.9460967	+72392 +42	+554	.9441071	+12611 +36	+562	.9420612	+12919 +37	+571	.9399583	+13229 +31	+579	6.1
6.2	+47455 +59	+488	.9542982	+88485 +85	+496	.9525796	+11334 +59	+505	.9508105	+11632 +52	+513	.9489900	+11930 +52	+522	6.2
6.3	+61958 +73	+433	.9613959	+107699 +72	+441	.9599187	+10119 +78	+450	.9583966	+10937 +89	+468	.9568287	+10682 +86	+466	6.3
6.4	+80457 +82	+381	.9675097	+129719 +82	+389	.9662462	+8971 +79	+397	.9649430	+8233 +77	+405	.9635992	+8498 +77	+413	6.4
6.5	+10434 +85	+333	.9727523	+156887 +83	+341	.9716766	+7904 +84	+349	.9705661	+8148 +85	+356	.9694199	+8391 +84	+364	6.5



u	p = 17.0		p = 17.2		p = 17.4		p = 17.6		p = 17.8		p = 18.0		u				
	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$					
6.5	.9785169	-8325 -86	-296	.9776345	-6541 -85	-303	.9767217	-6757 -88	-311	.9757779	-6979 -86	-318	.9748022	-7205 -88	-328	.9737939	6.5
6.6	.9820992	-8497 -85	-286	.9813552	-6689 -85	-282	.9805850	-6885 -86	-269	.9797879	-6985 -84	-270	.9789631	-7287 -89	-283	.9781101	6.6
6.7	.9851318	-4764 -82	-219	.9845070	-4922 -82	-225	.9838598	-5097 -84	-231	.9831894	-6274 -80	-238	.9824953	-5408 -85	-244	.9817768	6.7
6.8	.9876890	-4068 -78	-187	.9871666	-4240 -78	-192	.9866249	-4393 -80	-188	.9860635	-4652 -78	-203	.9854817	-4713 -81	-209	.9848791	6.8
6.9	.9898374	-3990 -70	-159	.9894022	-3931 -73	-163	.9889507	-3767 -75	-168	.9884824	-3906 -72	-173	.9879968	-4050 -77	-176	.9874934	6.9
7.0	.9916358	-2983 -64	-134	.9912747	-3096 -69	-138	.9908998	-3218 -69	-142	.9905107	-3338 -68	-147	.9901069	-3482 -72	-151	.9896881	7.0
7.1	.9931359	-2530 -59	-112	.9928374	-2630 -63	-116	.9925273	-2733 -62	-120	.9922052	-2898 -53	-123	.9918708	-2947 -58	-127	.9915237	7.1
7.2	.9943830	-2139 -55	-84	.9941371	-2224 -68	-67	.9938815	-2312 -67	-100	.9936159	-2403 -59	-104	.9933400	-2489 -69	-107	.9930533	7.2
7.3	.9954162	-1799 -49	-78	.9952144	-1873 -65	-61	.9950045	-1948 -62	-84	.9947863	-2027 -64	-86	.9945594	-2107 -64	-89	.9943236	7.3
7.4	.9962695	-1508 -43	-56	.9961044	-1570 -47	-67	.9959327	-1638 -47	-69	.9957540	-1702 -49	-72	.9955681	-1770 -49	-74	.9953748	7.4
7.5	.9969720	-1259 -35	-53	.9968374	-1312 -42	-55	.9966973	-1366 -42	-57	.9965515	-1422 -45	-59	.9963998	-1482 -43	-61	.9962419	7.5
7.6	.9975486	-1048 -33	-44	.9974392	-1092 -37	-45	.9973253	-1137 -39	-47	.9972068	-1197 -38	-49	.9970833	-1253 -38	-50	.9969548	7.6
7.7	.9980204	-899 -29	-36	.9979318	-906 -33	-37	.9978396	-948 -33	-39	.9977434	-993 -31	-40	.9976433	-1026 -32	-41	.9975391	7.7
7.8	.9984053	-717 -25	-29	.9983338	-748 -27	-30	.9982593	-780 -25	-31	.9981817	-816 -27	-33	.9981007	-849 -28	-34	.9980164	7.8
7.9	.9987185	-590 -22	-24	.9986610	-617 -23	-25	.9986010	-644 -24	-26	.9985384	-670 -24	-27	.9984732	-700 -24	-28	.9984053	7.9
8.0	.9989727	-485 -19	-19	.9989265	-508 -20	-20	.9988783	-528 -21	-21	.9988281	-552 -21	-21	.9987757	-576 -22	-22	.9987211	8.0
8.1	.9991783	-396 -16	-15	.9991414	-419 -19	-18	.9991028	-433 -17	-17	.9990626	-452 -18	-17	.9990206	-471 -19	-16	.9989769	8.1
8.2	.9993443	-324 -14	-12	.9993148	-333 -13	-13	.9992840	-352 -15	-13	.9992519	-369 -16	-14	.9992184	-385 -18	-14	.9991835	8.2
8.3	.9994779	-263 -11	-10	.9994544	-274 -11	-10	.9994300	-289 -12	-10	.9994044	-300 -13	-11	.9993777	-313 -13	-11	.9993499	8.3
8.4	.9995852	-214 -6	-6	.9995666	-224 -9	-8	.9995471	-232 -10	-9	.9995269	-244 -11	-9	.9995057	-255 -11	-9	.9994836	8.4
8.5	.9996711	-172 -7	-6	.9996564	-169 -8	-7	.9996410	-189 -7	-7	.9996250	-197 -9	-7	.9996082	-206 -10	-7	.9995907	8.5
8.6	.9997398	-139 -6	-5	.9997282	-146 -6	-6	.9997160	-151 -8	-6	.9997034	-159 -8	-6	.9996901	-163 -8	-6	.9996763	8.6
8.7	.9997946	-113 -5	-4	.9997854	-117 -5	-4	.9997759	-124 -5	-4	.9997659	-129 -5	-5	.9997555	-135 -6	-5	.9997446	8.7
8.8	.9998381	-89 -4	-4	.9998309	-93 -5	-4	.9998234	-97 -4	-4	.9998156	-103 -6	-4	.9998074	-107 -5	-4	.9997989	8.8
8.9	.9998727	-72 -4	-4	.9998671	-76 -4	-4	.9998612	-79 -4	-4	.9998550	-81 -4	-4	.9998486	-85 -4	-4	.9998419	8.9
9.0	.9999001	-65	-5	.9998957	-60	-5	.9998911	-68	-5	.9998863	-66	-5	.9998813	-69	-5	.9998760	9.0
9.1	.9999217	-43	-4	.9999183	-46	-4	.9999147	-50	-4	.9999110	-53	-4	.9999071	-63	-4	.9999030	9.1
9.2	.9999388	-37	-3	.9999361	-38	-3	.9999333	-39	-3	.9999304	-41	-3	.9999274	-43	-3	.9999242	9.2
9.3	.9999522	-28	-2	.9999501	-29	-2	.9999480	-32	-2	.9999457	-32	-2	.9999434	-35	-2	.9999409	9.3
9.4	.9999628	-24	-2	.9999612	-24	-2	.9999595	-25	-2	.9999578	-27	-2	.9999559	-28	-2	.9999540	9.4
9.5	.9999710	-17	-1	.9999698	-19	-1	.9999685	-19	-1	.9999672	-21	-1	.9999658	-21	-1	.9999643	9.5
9.6	.9999775	-14	-1	.9999766	-15	-1	.9999756	-15	-1	.9999745	-13	-1	.9999734	-16	-1	.9999723	9.6
9.7	.9999826	-12	-1	.9999818	-11	-1	.9999811	-12	-1	.9999803	-11	-1	.9999794	-13	-1	.9999786	9.7
9.8	.9999865	-8	-1	.9999859	-9	-1	.9999854	-10	-1	.9999848	-9	-1	.9999841	-11	-1	.9999834	9.8
9.9	.9999896	-7	-1	.9999891	-7	-1	.9999887	-8	-1	.9999882	-7	-1	.9999877	-9	-1	.9999872	9.9
10.0	.9999920	-6	-1	.9999916	-6	-1	.9999913	-6	-1	.9999909	-6	-1	.9999906	-8	-1	.9999902	10.0
10.1	.9999938	-4	-1	.9999936	-5	-1	.9999933	-5	-1	.9999930	-5	-1	.9999927	-6	-1	.9999924	10.1
10.2	.9999952	-4	-1	.9999950	-4	-1	.9999948	-4	-1	.9999946	-4	-1	.9999944	-4	-1	.9999942	10.2
10.3	.9999963		-1	.9999962		-1	.9999960		-1	.9999959		-1	.9999957		-1	.9999956	10.3
10.4	.9999972		-1	.9999971		-1	.9999970		-1	.9999969		-1	.9999967		-1	.9999966	10.4
10.5	.9999979		-1	.9999978		-1	.9999977		-1	.9999976		-1	.9999975		-1	.9999974	10.5
10.6	.9999984		-1	.9999983		-1	.9999982		-1	.9999982		-1	.9999981		-1	.9999980	10.6
10.7	.9999987		-1	.9999987		-1	.9999986		-1	.9999986		-1	.9999985		-1	.9999985	10.7
10.8	.9999990		-1	.9999990		-1	.9999990		-1	.9999989		-1	.9999989		-1	.9999989	10.8
10.9	.9999993		-1	.9999992		-1	.9999992		-1	.9999992		-1	.9999992		-1	.9999991	10.9
11.0	.9999994		-1	.9999994		-1	.9999994		-1	.9999994		-1	.9999994		-1	.9999993	11.0
11.1	.9999996		-1	.9999996		-1	.9999996		-1	.9999995		-1	.9999995		-1	.9999995	11.1
11.2	.9999997		-1	.9999997		-1	.9999997		-1	.9999996		-1	.9999996		-1	.9999996	11.2
11.3	.9999998		-1	.9999997		-1	.9999997		-1	.9999997		-1	.9999997		-1	.9999997	11.3
11.4	.9999998		-1	.9999998		-1	.9999998		-1	.9999998		-1	.9999998		-1	.9999998	11.4
11.5	.9999999		-1	.9999999		-1	.9999999		-1	.9999998		-1	.9999998		-1	.9999998	11.5
11.6	.9999999		-1	.9999999		-1	.9999999		-1	.9999999		-1	.9999999		-1	.9999999	11.6
11.7	.9999999		-1	.9999999		-1	.9999999		-1	.9999999		-1	.9999999		-1	.9999999	11.7
11.8	.9999999		-1	.9999999		-1	.9999999		-1	.9999999		-1	.9999999		-1	.9999999	11.8
11.9	1.0000000		-1	1.0000000		-1	1.0000000		-1	1.0000000		-1	.9999999		-1	.9999999	11.9
12.0													1.0000000			1.0000000	12.0







u	p = 19.0		p = 19.2		p = 19.4		p = 19.6		p = 19.8		p = 20.0		u
	I(u, p)	$\delta_u^u \delta_p^2$ $\delta_u^4 \delta_p^4$	I(u, p)	$\delta_u^2 \delta_p^2$ $\delta_u^4 \delta_p^4$	I(u, p)	$\delta_u^2 \delta_p^2$ $\delta_u^4 \delta_p^4$	I(u, p)	$\delta_u^2 \delta_p^2$ $\delta_u^4 \delta_p^4$	I(u, p)	$\delta_u^2 \delta_p^2$ $\delta_u^4 \delta_p^4$	I(u, p)	$\delta_u^2 \delta_p^2$ $\delta_u^4 \delta_p^4$	
.8	.0000000												.8
.9	.0000000		.0000000		.0000000		.0000000		.0000000		.0000000		.9
1.0	.0000001	+2	.0000000	+2	.0000000	+2	.0000000	+1	.0000000	+1	.0000000	+1	1.0
1.1	.0000003	+3	.0000002	+4	.0000002	+3	.0000001	+4	.0000001	+3	.0000001	+5	1.1
1.2	.0000010	+7	.0000008	+12	.0000007	+11	.0000006	+10	.0000005	+9	.0000004	+8	1.2
1.3	.0000033	+16	.0000027	+18	.0000023	+19	.0000019	+25	.0000016	+21	.0000013	+17	1.3
1.4	.0000095	+27	.0000080	+24	.0000068	+21	.0000057	+29	.0000048	+21	.0000040	+18	1.4
1.5	.0000249	+49	.0000212	+37	.0000181	+45	.0000154	+53	.0000131	+61	.0000111	+70	1.5
1.6	.0000596	+83	.0000514	+73	.0000442	+69	.0000381	+77	.0000328	+85	.0000281	+94	1.6
1.7	.0001321	+135	.0001150	+117	.0001000	+109	.0000869	+117	.0000754	+125	.0000654	+134	1.7
1.8	.0002734	+225	.0002401	+193	.0002107	+181	.0001847	+169	.0001618	+157	.0001417	+145	1.8
1.9	.0005325	+381	.0004715	+323	.0004172	+298	.0003689	+272	.0003260	+246	.0002878	+220	1.9
2.0	.0009819	+544	.0008763	+464	.0007814	+424	.0006964	+384	.0006202	+334	.0005520	+294	2.0
2.1	.0017237	+775	.0015495	+665	.0013920	+605	.0012497	+545	.0011212	+485	.0010052	+425	2.1
2.2	.0028944	+1069	.0026198	+923	.0023697	+843	.0021421	+763	.0019351	+683	.0017470	+603	2.2
2.3	.0046680	+1441	.0042524	+1253	.0038713	+1133	.0035221	+1013	.0032024	+893	.0029099	+773	2.3
2.4	.0072562	+1913	.0066502	+1645	.0060910	+1485	.0055753	+1325	.0051002	+1165	.0046627	+1005	2.4
2.5	.0109062	+2545	.0100522	+2197	.0092595	+1977	.0085242	+1757	.0078425	+1537	.0072110	+1317	2.5
2.6	.0158935	+3377	.0147277	+2889	.0136392	+2579	.0126238	+2319	.0116770	+2059	.0107950	+1839	2.6
2.7	.0225128	+4459	.0209668	+3881	.0195157	+3479	.0181545	+3119	.0168786	+2759	.0156835	+2399	2.7
2.8	.0310641	+5841	.0290687	+5123	.0271862	+4523	.0254113	+3923	.0237390	+3323	.0221645	+2723	2.8
2.9	.0418378	+7573	.0393264	+6565	.0369455	+5865	.0346898	+5165	.0325541	+4465	.0305334	+3765	2.9
3.0	.0550986	+9715	.0520109	+8407	.0490701	+7407	.0462711	+6407	.0436087	+5407	.0410778	+4407	3.0
3.1	.0710687	+12697	.0673548	+10929	.0638020	+9679	.0604055	+8429	.0571605	+7179	.0540622	+5929	3.1
3.2	.0899136	+16619	.0855372	+14461	.0813330	+12711	.0772969	+10961	.0734245	+9211	.0697116	+7461	3.2
3.3	.1117297	+21841	.1066709	+18803	.1017918	+16353	.0970889	+14403	.0925587	+12453	.0881975	+10503	3.3
3.4	.1362692	+28563	.1307933	+24845	.1252335	+21585	.1198540	+18925	.1146521	+16265	.1096250	+13605	3.4
3.5	.1642692	+37285	.1578605	+32127	.1516333	+27967	.1455860	+24307	.1397169	+20647	.1340243	+17087	3.5
3.6	.1947844	+48507	.1877467	+41469	.1808844	+35909	.1741971	+30869	.1676843	+26329	.1613451	+21789	3.6
3.7	.2278587	+62729	.2202470	+53731	.2128002	+46683	.2055193	+40243	.1984045	+34303	.1914561	+28863	3.7
3.8	.2631998	+79551	.2550849	+68843	.2471207	+59743	.2393090	+51203	.2316511	+43263	.2241484	+35823	3.8
3.9	.3004564	+99473	.2919226	+80065	.2835218	+68803	.2752566	+59763	.2671295	+51223	.2591425	+43183	3.9
4.0	.3392327	+127295	.3303739	+109227	.3216279	+94267	.3129980	+80227	.3044874	+67287	.2960989	+54307	4.0
4.1	.3791023	+164517	.3700191	+141449	.3610265	+118267	.3521284	+100227	.3433287	+84287	.3346309	+70247	4.1
4.2	.4196245	+212739	.4104198	+188671	.4012826	+159727	.3922173	+134287	.3832282	+114247	.3743192	+94207	4.2
4.3	.4603581	+274961	.4511341	+241893	.4419545	+200287	.4328238	+166247	.4237464	+138207	.4147268	+112167	4.3
4.4	.5008760	+354183	.4917310	+304115	.4826077	+259747	.4735107	+214207	.4644447	+172667	.4554139	+138127	4.4
4.5	.5407769	+454405	.5318023	+372337	.5228280	+434967	.5138585	+372427	.5048984	+314987	.4959520	+262547	4.5
4.6	.5796951	+578627	.5709732	+448559	.5622320	+512189	.5534759	+434707	.5447091	+362267	.5359359	+304787	4.6
4.7	.6173081	+730849	.6089107	+532781	.6004766	+592407	.5920098	+492267	.5835144	+402127	.5749942	+322287	4.7
4.8	.6533417	+904071	.6453288	+624003	.6372643	+704627	.6291518	+582487	.6209948	+472347	.6127971	+372207	4.8
4.9	.6875729	+1102293	.6799922	+724225	.6723477	+794847	.6646424	+662307	.6568795	+552167	.6490621	+452027	4.9
5.0	.7198302	+1326515	.7127173	+834447	.7055311	+894067	.6982739	+742227	.6909484	+612087	.6835574	+502047	5.0
5.1	.7499926	+1578737	.7433714	+954669	.7366698	+1014289	.7298897	+842447	.7230332	+692207	.7161027	+592067	5.1
5.2	.7779870	+1854959	.7718703	+1084491	.7656684	+1144511	.7593830	+942607	.7530157	+772367	.7465683	+652127	5.2
5.3	.8037836	+2159181	.7981742	+1224713	.7924773	+1274733	.7866939	+1042767	.7808254	+862527	.7748729	+742187	5.3
5.4	.8273918	+2491403	.8222838	+1374935	.8170879	+1424955	.8118047	+1182807	.8064350	+992567	.8009797	+842347	5.4
5.5	.8488542	+2853625	.8442344	+1535157	.8395279	+1585177	.8347350	+1312827	.8298561	+1092687	.8248917	+922507	5.5
5.6	.8688241	+3245847	.8640905	+1705379	.8598555	+1745401	.8555364	+1442977	.8511334	+1212547	.8466465	+1022367	5.6
5.7	.8856465	+3678069	.8819404	+1885601	.8781540	+1925623	.8742870	+1592557	.8703392	+1342207	.8663105	+1112027	5.7
5.8	.9011793	+4150291	.8978906	+2075823	.8945261	+2115845	.8910854	+1772497	.8875680	+1482057	.8839736	+1241847	5.8
5.9	.9149618	+4652513	.9120607	+2276045	.9090889	+2216067	.9060459	+1872657	.9029310	+1562217	.8997439	+1341607	5.9
6.0	.9271234	+5184735	.9245789	+2486267	.9219691	+2416489	.9192935	+2022807	.9165514	+1712367	.9137420	+1441167	6.0
6.1	.9377975	+5756957	.9355780	+2706489	.9332989	+2646711	.9309596	+2142967	.9285593	+1812927	.9260972	+1541127	6.1
6.2	.9471174	+6379179	.9451917	+2946711	.9432122	+2896933	.9411781	+2243127	.9390885	+1912887	.9369428	+1641187	6.2
6.3	.9552141	+7051401	.9535520	+3196933	.9518417	+3157155	.9500823	+2393327	.9482730	+2012647	.9464130	+1741147	6.3
6.4	.9622140	+7773623	.9607867	+3457155	.9593165	+3427377	.9578025	+2543507	.9562439	+2162907	.9546400	+1841107	6.4
6.5	.9682373	+8545845	.9670176	+3727377	.9657600	+3707601	.9644636	+2703647	.9631278	+2322967	.9617518	+1941067	6.5



u	p = 20.0		p = 20.2		p = 20.4		p = 20.6		p = 20.8		p = 21.0		u	
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$
.8													.8	
.9			.0000000			.0000000			.0000000			.0000000		.9
1.0	+1		.0000000			.0000000			.0000000			.0000000		1.0
1.1	+2		.0000001	+2		.0000001	+2		.0000000	+1		.0000000	+1	1.1
1.2	+3		.0000003	+3		.0000003	+3		.0000002	+2		.0000001	+2	1.2
1.3	+6		.0000011	+6		.0000009	+6		.0000006	+3		.0000005	+3	1.3
1.4	+8		.0000034	+8		.0000028	+8		.0000024	+4		.0000017	+4	1.4
1.5	+15		.0000095	+15		.0000080	+15		.0000068	+7		.0000058	+7	1.5
1.6	+24	+6	.0000241	+24	+6	.0000207	+24	+6	.0000178	+13	+4	.0000152	+12	1.6
1.7	+39	+13	.0000567	+39	+13	.0000492	+39	+13	.0000426	+23	+8	.0000368	+23	1.7
1.8	+59	+24	.0001240	+59	+24	.0001084	+59	+24	.0000947	+38	+17	.0000827	+38	1.8
1.9	+89	+43	.0002540	+89	+43	.0002240	+89	+43	.0001974	+58	+30	.0001738	+58	1.9
2.0	+129	+71	.0004909	+129	+71	.0004363	+129	+71	.0003876	+88	+52	.0003440	+88	2.0
2.1	+189	+115	.0009007	+189	+115	.0008065	+189	+115	.0007217	+132	+85	.0006454	+132	2.1
2.2	+269	+173	.0015762	+269	+173	.0014212	+269	+173	.0012806	+199	+132	.0011532	+199	2.2
2.3	+389	+251	.0026425	+389	+251	.0023982	+389	+251	.0021751	+289	+195	.0019715	+289	2.3
2.4	+549	+349	.0042601	+549	+349	.0038900	+549	+349	.0035498	+429	+279	.0032375	+429	2.4
2.5	+769	+469	.0066264	+769	+469	.0060856	+769	+469	.0055857	+609	+380	.0051238	+609	2.5
2.6	+1069	+689	.0099738	+1069	+689	.0092097	+1069	+689	.0084993	+889	+503	.0078392	+889	2.6
2.7	+1469	+939	.0145647	+1469	+939	.0135181	+1469	+939	.0125396	+1249	+644	.0116255	+1249	2.7
2.8	+1969	+1269	.0206830	+1969	+1269	.0192899	+1969	+1269	.0179808	+1709	+797	.0167514	+1709	2.8
2.9	+2669	+1719	.0286227	+2669	+1719	.0268173	+2669	+1719	.0251123	+2309	+969	.0235032	+2309	2.9
3.0	+3669	+2269	.0386736	+3669	+2269	.0363912	+3669	+2269	.0342257	+3109	+1122	.0321724	+3109	3.0
3.1	+4969	+3069	.0511058	+4969	+3069	.0482866	+4969	+3069	.0455999	+4209	+1279	.0430411	+4209	3.1
3.2	+6669	+4169	.0661538	+6669	+4169	.0627466	+6669	+4169	.0594858	+5609	+1419	.0563669	+5609	3.2
3.3	+8869	+5669	.0840016	+8869	+5669	.0799671	+8869	+5669	.0760902	+7409	+1537	.0723670	+7409	3.3
3.4	+11669	+7669	.1047699	+11669	+7669	.1000834	+11669	+7669	.0955626	+9809	+1623	.0912041	+9809	3.4
3.5	+15669	+10469	.1285060	+15669	+10469	.1231599	+15669	+10469	.1179837	+13209	+1873	.1129747	+13209	3.5
3.6	+20669	+14169	.1551784	+20669	+14169	.1491830	+20669	+14169	.1433575	+17609	+1683	.1377004	+17609	3.6
3.7	+27669	+19169	.1846741	+27669	+19169	.1780582	+27669	+19169	.1716081	+23009	+1651	.1653231	+23009	3.7
3.8	+36669	+25669	.2168017	+36669	+25669	.2096119	+36669	+25669	.2025796	+29409	+1578	.1957050	+29409	3.8
3.9	+48669	+34669	.2512976	+48669	+34669	.2435965	+48669	+34669	.2360407	+36809	+1466	.2286314	+36809	3.9
4.0	+64669	+46669	.2878354	+64669	+46669	.2796993	+64669	+46669	.2716931	+45209	+1319	.2638188	+45209	4.0
4.1	+86669	+62669	.3260385	+86669	+62669	.3175547	+86669	+62669	.3091825	+55609	+1145	.3009248	+55609	4.1
4.2	+114669	+84669	.3654944	+114669	+84669	.3567574	+114669	+84669	.3481119	+68009	+949	.3395614	+68009	4.2
4.3	+150669	+113669	.4057692	+150669	+113669	.3968777	+150669	+113669	.3880564	+82409	+740	.3793091	+82409	4.3
4.4	+196669	+149669	.4464230	+196669	+149669	.4374763	+196669	+149669	.4285779	+97809	+623	.4197320	+97809	4.4
4.5	+256669	+196669	.4870239	+256669	+196669	.4781184	+256669	+196669	.4692398	+115209	+511	.4603923	+115209	4.5
4.6	+336669	+266669	.5271606	+336669	+266669	.5183875	+336669	+266669	.5096207	+134609	+106	.5008644	+134609	4.6
4.7	+446669	+366669	.5664533	+446669	+366669	.5578957	+446669	+366669	.5493255	+156009	+86	.5407467	+156009	4.7
4.8	+586669	+496669	.6045621	+586669	+496669	.5962938	+586669	+496669	.5879956	+179409	+260	.5796714	+179409	4.8
4.9	+756669	+666669	.6411935	+756669	+666669	.6332769	+756669	+666669	.6253157	+204809	+412	.6173133	+204809	4.9
5.0	+966669	+886669	.6761036	+966669	+886669	.6685899	+966669	+886669	.6610191	+232209	+541	.6533941	+232209	5.0
5.1	+1226669	+1186669	.7091003	+1226669	+1186669	.7020286	+1226669	+1186669	.6948897	+261609	+645	.6876864	+261609	5.1
5.2	+1606669	+1586669	.7400425	+1606669	+1586669	.7334402	+1606669	+1586669	.7267634	+303009	+725	.7200141	+303009	5.2
5.3	+2026669	+2086669	.7688378	+2026669	+2086669	.7627216	+2026669	+2086669	.7565257	+346409	+781	.7502517	+346409	5.3
5.4	+2586669	+2786669	.7954397	+2586669	+2786669	.7898160	+2586669	+2786669	.7841096	+401809	+816	.7783218	+401809	5.4
5.5	+3306669	+3686669	.8198424	+3306669	+3686669	.8147087	+3306669	+3686669	.8094913	+469209	+829	.8041910	+469209	5.5
5.6	+4206669	+4786669	.8420759	+4206669	+4786669	.8374220	+4206669	+4786669	.8326852	+548609	+826	.8278656	+548609	5.6
5.7	+5306669	+6086669	.8622008	+5306669	+6086669	.8580101	+5306669	+6086669	.8537385	+640009	+809	.8493860	+640009	5.7
5.8	+6606669	+7586669	.8803020	+6606669	+7586669	.8765528	+6606669	+7586669	.8727259	+744409	+779	.8688211	+744409	5.8
5.9	+8106669	+9286669	.8964839	+8106669	+9286669	.8931507	+8106669	+9286669	.8897438	+851809	+740	.8862629	+851809	5.9
6.0	+9806669	+11186669	.9108649	+9806669	+11186669	.9079194	+9806669	+11186669	.9049049	+973209	+694	.9018210	+973209	6.0
6.1	+11806669	+13286669	.9235726	+11806669	+13286669	.9209849	+11806669	+13286669	.9183335	+1104609	+544	.9156176	+1104609	6.1
6.2	+14106669	+15686669	.9347400	+14106669	+15686669	.9324796	+14106669	+15686669	.9301607	+1246009	+501	.9277827	+1246009	6.2
6.3	+16806669	+18386669	.9445015	+16806669	+18386669	.9425377	+16806669	+18386669	.9405209	+1400009	+538	.9384504	+1400009	6.3
6.4	+20006669	+22386669	.9529900	+20006669	+22386669	.9512931	+20006669	+22386669	.9495485	+1566009	+484	.9477554	+1566009	6.4
6.5	+23806669	+26686669	.9603347	+23806669	+26686669	.9588759	+23806669	+26686669	.9573746	+1744009	+453	.9558300	+1744009	6.5







$u$	$p = 20.0$		$p = 20.2$		$p = 20.4$		$p = 20.6$		$p = 20.8$		$p = 21.0$		$u$					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
6.5	-9998 -84	-410	.9603347	-10905 -71	-418	.9588759	-19476 -78	-425	.9573746	-10750 -68	-433	.9558300	-11027 -83	-440	.9542413	-11305 -88	-448	6.5
6.6	-8752 -84	-362	.9666589	-9943 -81	-369	.9654111	-8296 -79	-376	.9641257	-9553 -76	-384	.9628019	-9813 -72	-391	.9614390	-10075 -72	-398	6.6
6.7	-7731 -87	-317	.9720788	-7961 -87	-324	.9710167	-8185 -86	-330	.9699215	-8432 -85	-337	.9687925	-8871 -80	-344	.9676292	-8917 -82	-351	6.7
6.8	-6788 -88	-275	.9767026	-6987 -88	-282	.9758028	-7190 -87	-288	.9748741	-7396 -89	-295	.9739160	-7618 -88	-301	.9729277	-7840 -90	-308	6.8
6.9	-5872 -88	-238	.9806297	-6060 -88	-244	.9798709	-6253 -89	-250	.9790871	-6448 -89	-258	.9782777	-6648 -92	-262	.9774422	-6853 -80	-268	6.9
7.0	-4973 -86	-204	.9839508	-5242 -88	-210	.9833137	-5415 -88	-215	.9826552	-5591 -85	-220	.9819746	-5770 -88	-226	.9812714	-6053 -90	-231	7.0
7.1	-4381 -81	-174	.9867477	-4511 -82	-179	.9862152	-4664 -82	-184	.9856642	-4813 -82	-189	.9850945	-4980 -84	-194	.9845053	-5143 -87	-199	7.1
7.2	-3739 -75	-148	.9890935	-3860 -78	-182	.9886503	-3895 -78	-186	.9881914	-4124 -81	-191	.9877164	-4274 -81	-195	.9872249	-4413 -81	-170	7.2
7.3	-3174 -70	-125	.9910533	-3288 -71	-129	.9906859	-3406 -73	-132	.9903052	-3526 -76	-136	.9899109	-3649 -78	-140	.9895027	-3778 -73	-144	7.3
7.4	-2687 -64	-106	.9926843	-2788 -66	-108	.9923809	-2883 -67	-111	.9920664	-2993 -71	-115	.9917405	-3102 -72	-118	.9914027	-3211 -65	-121	7.4
7.5	-2287 -68	-88	.9940365	-2351 -60	-90	.9937870	-2489 -61	-93	.9935283	-2631 -64	-96	.9932599	-2723 -66	-99	.9929816	-2719 -61	-102	7.5
7.6	-1902 -62	-73	.9951536	-1975 -63	-75	.9949492	-2069 -65	-78	.9947371	-2128 -67	-80	.9945170	-2208 -69	-83	.9942886	-2291 -65	-85	7.6
7.7	-1590 -46	-60	.9960732	-1652 -47	-62	.9959064	-1717 -48	-64	.9957331	-1792 -50	-66	.9955533	-1851 -53	-69	.9953665	-1929 -51	-71	7.7
7.8	-1323 -40	-50	.9968276	-1377 -41	-51	.9966919	-1430 -43	-53	.9965509	-1488 -45	-55	.9964045	-1544 -46	-57	.9962524	-1604 -46	-58	7.8
7.9	-1098 -34	-41	.9974443	-1141 -37	-42	.9973344	-1187 -38	-43	.9972201	-1235 -40	-45	.9971013	-1283 -41	-47	.9969779	-1334 -41	-48	7.9
8.0	-906 -30	-33	.9979469	-943 -32	-34	.9978582	-982 -32	-35	.9977658	-1021 -35	-37	.9976698	-1063 -38	-38	.9975700	-1105 -36	-39	8.0
8.1	-748 -27	-27	.9983552	-777 -27	-28	.9982838	-802 -28	-29	.9982094	-842 -31	-30	.9981320	-875 -31	-31	.9980516	-911 -31	-32	8.1
8.2	-611 -23	-22	.9986858	-637 -23	-23	.9986285	-683 -24	-23	.9985688	-690 -27	-24	.9985067	-719 -27	-25	.9984421	-749 -27	-26	8.2
8.3	-500 -19	-18	.9989527	-520 -19	-18	.9989069	-543 -20	-19	.9988592	-556 -23	-20	.9988095	-580 -24	-20	.9987577	-612 -23	-21	8.3
8.4	-407 -16	-14	.9991676	-426 -16	-16	.9991310	-441 -17	-16	.9990930	-461 -20	-16	.9990533	-479 -21	-16	.9990121	-501 -20	-17	8.4
8.5	-339 -14	-11	.9993400	-344 -14	-12	.9993110	-360 -16	-12	.9992807	-373 -17	-13	.9992492	-389 -16	-13	.9992164	-407 -16	-14	8.5
8.6	-287 -11	-9	.9994780	-278 -12	-9	.9994550	-299 -13	-10	.9994311	-304 -13	-10	.9994061	-317 -15	-11	.9993800	-329 -14	-11	8.6
8.7	-215 -10	-7	.9995882	-226 -10	-7	.9995700	-235 -11	-8	.9995511	-245 -10	-8	.9995313	-255 -11	-8	.9995107	-266 -12	-9	8.7
8.8	-174 -8	-6	.9996758	-189 -8	-6	.9996615	-188 -8	-6	.9996466	-196 -9	-6	.9996310	-205 -9	-7	.9996148	-214 -10	-7	8.8
8.9	-138 -8	-4	.9997454	-145 -7	-5	.9997342	-152 -7	-5	.9997225	-158 -8	-5	.9997102	-164 -8	-6	.9996975	-172 -8	-6	8.9
9.0	-111 -5	-4	.9998005	-116 -6	-4	.9997917	-120 -6	-4	.9997826	-127 -6	-4	.9997730	-133 -6	-4	.9997630	-138 -7	-4	9.0
9.1	-89 -5		.9998441	-83 -5		.9998372	-87 -4		.9998300	-100 -6		.9998225	-104 -5		.9998147	-109 -6		9.1
9.2	-70 -4		.9998784	-74 -4		.9998730	-76 -4		.9998674	-80 -4		.9998616	-84 -4		.9998555	-87 -4		9.2
9.3	-56 -4		.9999053	-57 -4		.9999012	-59 -4		.9998968	-63 -4		.9998923	-66 -4		.9998876	-70 -4		9.3
9.4	-43 -4		.9999265	-47 -4		.9999232	-47 -4		.9999199	-51 -4		.9999164	-53 -4		.9999127	-54 -4		9.4
9.5	-36 -4		.9999430	-36 -4		.9999405	-38 -4		.9999379	-39 -4		.9999352	-41 -4		.9999324	-43 -4		9.5
9.6	-26 -4		.9999559	-28 -4		.9999540	-30 -4		.9999520	-32 -4		.9999499	-33 -4		.9999477	-34 -4		9.6
9.7	-22 -4		.9999660	-23 -4		.9999645	-24 -4		.9999629	-23 -4		.9999613	-25 -4		.9999596	-27 -4		9.7
9.8	-17 -4		.9999738	-18 -4		.9999726	-17 -4		.9999715	-20 -4		.9999702	-20 -4		.9999689	-21 -4		9.8
9.9	-14 -4		.9999798	-13 -4		.9999790	-15 -4		.9999781	-15 -4		.9999771	-16 -4		.9999761	-16 -4		9.9
10.0	-9 -4		.9999845	-11 -4		.9999839	-12 -4		.9999832	-12 -4		.9999824	-11 -4		.9999817	-13 -4		10.0
10.1	-8 -4		.9999881	-8 -4		.9999876	-8 -4		.9999871	-9 -4		.9999866	-9 -4		.9999860	-10 -4		10.1
10.2	-7 -4		.9999909	-6 -4		.9999905	-6 -4		.9999901	-7 -4		.9999897	-7 -4		.9999893	-8 -4		10.2
10.3	-4 -4		.9999931	-5 -4		.9999928	-5 -4		.9999925	-6 -4		.9999922	-6 -4		.9999918	-8 -4		10.3
10.4	-4 -4		.9999947	-4 -4		.9999945	-4 -4		.9999943	-5 -4		.9999940	-5 -4		.9999938	-6 -4		10.4
10.5			.9999960			.9999958			.9999956	-4		.9999955	-4		.9999953	-4		10.5
10.6			.9999969			.9999968			.9999967			.9999966			.9999964			10.6
10.7			.9999977			.9999976			.9999975			.9999974			.9999973			10.7
10.8			.9999983			.9999982			.9999981			.9999980			.9999979			10.8
10.9			.9999987			.9999986			.9999986			.9999985			.9999984			10.9
11.0			.9999990			.9999990			.9999989			.9999989			.9999988			11.0
11.1			.9999993			.9999992			.9999992			.9999992			.9999991			11.1
11.2			.9999994			.9999994			.9999994			.9999994			.9999993			11.2
11.3			.9999996			.9999996			.9999995			.9999995			.9999995			11.3
11.4			.9999997			.9999997			.9999997			.9999996			.9999996			11.4
11.5			.9999998			.9999998			.9999997			.9999997			.9999997			11.5
11.6			.9999998			.9999998			.9999998			.9999998			.9999998			11.6
11.7			.9999999			.9999999			.9999999			.9999998			.9999998			11.7
11.8			.9999999			.9999999			.9999999			.9999999			.9999999			11.8
11.9			.9999999			.9999999			.9999999			.9999999			.9999999			11.9
12.0			.9999999			.9999999			.9999999			.9999999			.9999999			12.0
12.1			1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			12.1



u	p = 21.0			p = 21.2			p = 21.4			p = 21.6			p = 21.8			p = 22.0	
	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^3$	$\delta_p^3$	I(u, p)	$\delta_u^4$	$\delta_p^4$	I(u, p)	$\delta_u^5$	$\delta_p^5$	I(u, p)	$\delta_u^6$	$\delta_p^6$	I(u, p)	u
.9	.0000000																.9
1.0	.0000000																1.0
1.1	.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+2		.0000000	+1		.0000000	1.1
1.2	.0000001	+3		.0000001	+2		.0000001	+2		.0000001	+2		.0000001	+2		.0000001	1.2
1.3	.0000005	+8		.0000004	+7		.0000003	+7		.0000003	+5		.0000002	+5		.0000002	1.3
1.4	.0000017	+20		.0000014	+17		.0000012	+14		.0000010	+13		.0000008	+11		.0000007	1.4
1.5	.0000049	+49		.0000041	+43		.0000035	+37		.0000030	+31		.0000025	+28		.0000021	1.5
1.6	.0000130	+107		.0000111	+94		.0000095	+83		.0000081	+73		.0000070	+62		.0000059	1.6
1.7	.0000318	+218	+7	.0000275	+199	+7	.0000238	+174	+6	.0000205	+149	+0	.0000177	+132	+4	.0000152	1.7
1.8	.0000722	+474	+12	.0000629	+382	+11	.0000548	+324	+10	.0000478	+288	+9	.0000416	+257	+8	.0000362	1.8
1.9	.0001530	+1024	+24	.0001345	+845	+22	.0001182	+711	+20	.0001039	+622	+17	.0000912	+527	+15	.0000800	1.9
2.0	.0003052	+1994	+42	.0002706	+1684	+35	.0002397	+1456	+33	.0002122	+1249	+30	.0001878	+1062	+27	.0001661	2.0
2.1	.0005768	+3478	+89	.0005151	+2938	+64	.0004598	+2491	+57	.0004102	+2145	+50	.0003656	+1832	+48	.0003258	2.1
2.2	.0010378	+5978	+110	.0009334	+5062	+100	.0008390	+4321	+91	.0007537	+3726	+84	.0006766	+3127	+78	.0006071	2.2
2.3	.0017860	+9487	+164	.0016169	+7878	+151	.0014629	+6704	+139	.0013228	+5747	+128	.0011955	+4933	+115	.0010797	2.3
2.4	.0029509	+14115	+237	.0026880	+11843	+221	.0024472	+10098	+202	.0022266	+8689	+187	.0020247	+7468	+178	.0018401	2.4
2.5	.0046974	+21337	+330	.0043040	+17875	+307	.0039413	+15247	+284	.0036070	+13158	+268	.0032993	+11246	+245	.0030161	2.5
2.6	.0072263	+32189	+441	.0066575	+26443	+414	.0061301	+22522	+385	.0056412	+19489	+359	.0051885	+16837	+337	.0047694	2.6
2.7	.0107721	+47900	+571	.0099758	+38224	+537	.0092332	+32119	+507	.0085413	+27516	+475	.0078969	+23658	+437	.0072972	2.7
2.8	.0155976	+70725	+717	.0145155	+54900	+678	.0135012	+46388	+641	.0125510	+39857	+603	.0116616	+33619	+672	.0108294	2.8
2.9	.0219856	+105870	+872	.0205552	+151963	+830	.0192078	+209790	+790	.0179394	+176932	+761	.0167461	+150182	+712	.0156240	2.9
3.0	.0302267	+153777	+1032	.0283842	+220133	+966	.0266403	+301333	+948	.0249910	+395008	+909	.0234319	+500108	+862	.0219590	3.0
3.1	.0406055	+224918	+1188	.0382887	+304242	+1143	.0360861	+402252	+1099	.0339934	+514278	+1058	.0320063	+637288	+1014	.0301206	3.1
3.2	.0533856	+322777	+1331	.0505374	+412795	+1289	.0478181	+539294	+1248	.0452234	+694776	+1203	.0427490	+874424	+1160	.0403906	3.2
3.3	.0687935	+459932	+1467	.0653656	+570611	+1417	.0620795	+754272	+1377	.0589310	+941882	+1338	.0559161	+1155237	+1298	.0530309	3.3
3.4	.0870046	+665344	+1655	.0829605	+892268	+1620	.0790684	+1189678	+1484	.0753248	+1568865	+1448	.0717259	+2019646	+1412	.0682683	3.4
3.5	.1081305	+955347	+1820	.1034482	+131430	+1691	.0989251	+180338	+1591	.0945581	+242749	+1632	.0903444	+319101	+1601	.0862806	3.5
3.6	.1322098	+136133	+1647	.1268839	+192555	+1628	.1217206	+263333	+1804	.1167177	+349833	+1661	.1118730	+459268	+1557	.1071840	3.6
3.7	.1592024	+193333	+1633	.1532451	+262332	+1822	.1474499	+349242	+1608	.1418155	+454712	+1598	.1363404	+589904	+1577	.1310231	3.7
3.8	.1889883	+269968	+1679	.1824295	+362428	+1878	.1760284	+476502	+1572	.1697845	+624732	+1568	.1636972	+799751	+1568	.1577657	3.8
3.9	.2213698	+372700	+1483	.2142567	+502896	+1492	.2072929	+664853	+1497	.2004787	+879399	+1800	.1938145	+1155604	+1501	.1873003	3.9
4.0	.2560783	+519975	+1356	.2484735	+707311	+1373	.2410059	+954547	+1385	.2336768	+1261560	+1397	.2264873	+1659307	+1406	.2194385	4.0
4.1	.2927843	+716187	+1197	.2847634	+974048	+1220	.2768646	+1317811	+1241	.2690899	+1756580	+1281	.2614412	+2319471	+1278	.2539204	4.1
4.2	.3311090	+982068	+1014	.3227581	+1329263	+1043	.3145114	+1793998	+1071	.3063719	+2404304	+1098	.2983422	+3199330	+1122	.2904247	4.2
4.3	.3706395	+132726	+814	.3620513	+180223	+849	.3535480	+246648	+681	.3451329	+3349687	+914	.3368091	+4511177	+944	.3285798	4.3
4.4	.4109426	+183445	+805	.4022137	+243193	+648	.3935492	+327277	+680	.3849526	+438238	+718	.3764277	+589791	+751	.3679779	4.4
4.5	.4515802	+254216	+394	.4428074	+331188	+434	.4340781	+43935	+474	.4253961	+581181	+612	.4167654	+769226	+550	.4081896	4.5
4.6	.4921230	+349200	+188	.4834003	+454111	+229	.4747005	+60270	+260	.4660277	+799250	+309	.4573857	+1059219	+348	.4487785	4.6
4.7	.5321632	+472144	-6	.5235791	+607293	+83	.5149983	+81757	+73	.5064248	+108591	+112	.4978626	+144375	+131	.4893154	4.7
4.8	.5713250	+621238	-185	.5629601	+81428	-147	.5545804	+109898	-110	.5461898	+1425	-73	.5377920	+19187	-34	.5293907	4.8
4.9	.6092730	+815029	-344	.6011983	+109425	-309	.5930927	+13801	-374	.5849597	+18196	-289	.5768027	+23947	-204	.5686253	4.9
5.0	.6457181	+107421	-481	.6379940	+149832	-450	.6302249	+18419	-418	.6224140	+24584	-388	.6145644	+32500	-354	.6066795	5.0
5.1	.6804211	+142927	-593	.6730965	+199225	-567	.6657152	+24828	-539	.6582799	+33108	-511	.6507935	+43802	-483	.6432589	5.1
5.2	.7131944	+190684	-882	.7063065	+264044	-860	.6993527	+32921	-637	.6923352	+42906	-618	.6852564	+56506	-589	.6781187	5.2
5.3	.7439013	+254455	-747	.7374761	+351919	-729	.7309781	+4270	-710	.7244090	+571018	-691	.7177709	+75487	-671	.7110656	5.3
5.4	.7724536	+339495	-790	.7665065	+46418	-778	.7604818	+58427	-789	.7543810	+77441	-747	.7482054	+102588	-731	.7419568	5.4
5.5	.7988086	+452986	-813	.7933450	+622028	-809	.7878012	+80242	-792	.7821782	+10837	-781	.7764770	+14401	-769	.7706990	5.5
5.6	.8229640	+602968	-816	.8179807	+82772	-810	.8129164	+10883	-804	.8077717	+14396	-798	.8025474	+19394	-788	.7972443	5.6
5.7	.8449528	+802933	-805	.8404392	+110203	-802	.8358453	+15357	-799	.8311716	+20282	-795	.8264184	+26923	-790	.8215861	5.7
5.8	.8648383	+107181	-781	.8607774	+149377	-781	.8566385	+20585	-780	.8524216	+27870	-779	.8481268	+36965	-777	.8437542	5.8
5.9	.8827077	+140999	-746	.8790779	+19354	-748	.8753732	+26159	-750	.8715936	+35173	-762	.8677387	+46178	-769	.8638087	5.9
6.0	.8986672	+17991	-704	.8954430	+26190	-708	.8921480	+3454	-712	.8887819	+4581	-715	.8853443	+5988	-718	.8818348	6.0
6.1	.9128366	+23969	-656	.9099901	+35293	-662	.9070774	+4518	-671	.9040981	+5851	-671	.9010516	+7486	-676	.8979375	6.1
6.2	.9253448	+31927	-605	.9228465	+46921	-611	.9202870	+6032	-618	.9176657	+7617	-624	.9149821	+9442	-629	.9122356	6.2
6.3	.9363253	+42192	-562	.9341451	+60921	-559	.9319088	+7696	-568	.9296160	+9588	-573	.9272659	+11824	-579	.9248579	6.3
6.4	.9459131	+54940	-499	.9440209	+8288	-507	.9420780	+10183	-514	.9400837	+13477	-521	.9380373	+17172	-528	.9359381	6.4
6.5	.9542413	+70558	-448	.9526079	+11157	-455	.9509289	+14854	-488	.9492037	+19558	-470	.9474315	+25448	-477	.9456117	6.5



u	p = 22.0		p = 22.2		p = 22.4		p = 22.6		p = 22.8		p = 23.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
.9													.9		
1.0													1.0		
1.1			.0000000			.0000000			.0000000			.0000000			1.1
1.2	+2		.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+1		1.2
1.3	+3		.0000002	+3		.0000001	+3		.0000001	+2		.0000001	+2		1.3
1.4	+4		.0000006	+5		.0000005	+6		.0000004	+5		.0000003	+5		1.4
1.5	+24		.0000018	+21		.0000015	+18		.0000013	+15		.0000011	+12		1.5
1.6	+16		.0000051	+16		.0000043	+14		.0000037	+12		.0000031	+10		1.6
1.7	+30		.0000131	+27		.0000113	+24		.0000097	+20		.0000083	+17		1.7
1.8	+117	+4	.0000314	+103		.0000273	+88	+6	.0000237	+77	+5	.0000206	+68	+4	1.8
1.9	+228	+7	.0000701	+204	+7	.0000614	+181	+11	.0000538	+159	+10	.0000471	+143	+8	1.9
2.0	+422	+13	.0001468	+390	+12	.0001296	+341	+19	.0001144	+299	+17	.0001009	+263	+14	2.0
2.1	+119	+24	.0002901	+774	+21	.0002581	+688	+34	.0002295	+603	+31	.0002040	+534	+24	2.1
2.2	+217	+41	.0005444	+1410	+37	.0004878	+1247	+57	.0004369	+1090	+51	.0003911	+958	+41	2.2
2.3	+1913	+68	.0009746	+2659	+61	.0008792	+2340	+89	.0007927	+2050	+81	.0007143	+1806	+68	2.3
2.4	+208	+106	.0016714	+3874	+98	.0015172	+3392	+133	.0013765	+2955	+123	.0012481	+2627	+104	2.4
2.5	+4156	+159	.0027556	+5420	+145	.0025162	+4769	+198	.0022964	+4193	+180	.0020946	+3699	+154	2.5
2.6	+359	+227	.0043818	+7314	+211	.0040235	+9901	+273	.0036925	+8507	+254	.0033869	+7340	+210	2.6
2.7	+7745	+313	.0067394	+9548	+294	.0062209	+13060	+369	.0057393	+11183	+344	.0052921	+9618	+302	2.7
2.8	+327	+419	.0100513	+12065	+511	.0093243	+16119	+480	.0086453	+13900	+458	.0080116	+12375	+400	2.8
2.9	+1044	+541	.0145697	+14808	+842	.0135796	+19218	+608	.0126503	+16335	+578	.0117786	+14379	+516	2.9
3.0	+2378	+878	.0205684	+17051	+784	.0192562	+21742	+748	.0180188	+18433	+712	.0168526	+15840	+648	3.0
3.1	-44	+923	.0283322	+20493	+932	.0266370	+23980	+893	.0250311	+21273	+854	.0235106	+18679	+782	3.1
3.2	+21084	+973	.0381443	+23148	+1079	.0360058	+25910	+1038	.0339712	+22917	+999	.0320365	+21448	+960	3.2
3.3	-199	+1120	.0502712	+26500	+1216	.0476333	+29010	+1177	.0451130	+24807	+1134	.0427066	+23990	+1061	3.3
3.4	+23708	+1256	.0649481	+27398	+1338	.0617618	+27068	+1301	.0587055	+24807	+1264	.0557757	+21812	+1191	3.4
3.5	+2871	+1469	.0823638	+28696	+1437	.0785906	+28434	+1404	.0749578	+25133	+1370	.0714620	+22786	+1303	3.5
3.6	-716	+1632	.1026481	+29293	+1600	.0982628	+29193	+1478	.0940254	+26060	+1460	.0899329	+22897	+1393	3.6
3.7	-768	+1559	.1258617	+29159	+1540	.1208543	+29206	+1520	.1159990	+26235	+1499	.1112935	+22922	+1476	3.7
3.8	-738	+1649	.1519892	+28195	+1538	.1463664	+28484	+1526	.1408962	+26855	+1512	.1355773	+22879	+1497	3.8
3.9	-769	+1600	.1809362	+28478	+1498	.1747219	+26892	+1494	.1686570	+27243	+1439	.1627408	+22792	+1481	3.9
4.0	-715		.2125310	+24092	+1420	.2057656	+24592	+1420	.1991427	+25118	+1427	.1926625	+22805	+1428	4.0
4.1	+28437	+1414	.2465290	+20947	+1308	.2392685	+21639	+1321	.2321400	+22308	+1331	.2251447	+22234	+1340	4.1
4.2	-614	+1294	.2826217	+17833	+1160	.2749353	+18186	+1190	.2673676	+18911	+1204	.2599203	+19660	+1220	4.2
4.3	+20224	+1294	.3204477	+13828	+1000	.3124157	+14206	+1026	.3044863	+15067	+1051	.2966619	+15903	+1073	4.3
4.4	-303	+973	.3596065	+9071	+816	.3513167	+9969	+847	.3431117	+10810	+877	.3349943	+12011	+905	4.4
4.5	-362	+1145	.3996724	+4718	+822	.3912175	+5853	+665	.3828281	+6588	+690	.3745078	+7818	+722	4.5
4.6	-382	+973	.4402099	+37	+423	.4316836	+13	+460	.4232033	+224	+498	.4147726	+3165	+531	4.6
4.7	-362	+1145	.4807872	-8748	+227	.4722818	-2871	+265	.4638028	-1988	+302	.4553540	-1097	+338	4.7
4.8	-805	+189	.5209897	-282	+40	.5125928	-894	+77	.5042035	-992	+114	.4958257	-510	+100	4.8
4.9	-947	+3	.5604310	-1100	-138	.5522234	-1087	-98	.5440060	-942	-83	.5357824	-889	-97	4.9
5.0	-1104	-169	.5987623	-1418	-269	.5908161	-1392	-287	.5828443	-1288	-224	.5748502	-1227	-190	5.0
5.1	+409	-322	.6356788	-490	-425	.6280562	-478	-395	.6203940	-499	-366	.6126953	-453	-335	5.1
5.2	-1719	-454	.6709247	-1876	-539	.6638768	-1835	-513	.6563776	-1793	-486	.6490297	-1748	-460	5.2
5.3	+515	-564	.7042952	-612	-629	.6974619	-614	-606	.6905679	-618	-585	.6836153	-611	-562	5.3
5.4	-10129	-564	.7356367	-2130	-697	.7292469	-2149	-680	.7227890	-2094	-661	.7162651	-2070	-643	5.4
5.5	-505	-651	.7648452	-2109	-744	.7589170	-2192	-730	.7529157	-2178	-710	.7468429	-2164	-701	5.5
5.6	-20557	-651	.7918631	-2205	-771	.7864049	-2202	-761	.7808706	-2209	-750	.7752613	-22017	-739	5.6
5.7	+495	-715	.8166754	-2188	-778	.8116866	-2191	-773	.8066206	-2182	-766	.8014780	-2182	-759	5.7
5.8	-21490	-715	.8393041	-2091	-753	.8347767	-2141	-739	.8301724	-2154	-726	.8254915	-2160	-721	5.8
5.9	-2199	-757	.8598033	-2041	-703	.8557227	-2069	-732	.8515668	-2057	-751	.8473358	-2052	-750	5.9
6.0	+413	-760	.8782534	-1941	-722	.8745997	-19719	-734	.8708736	-19943	-725	.8670749	-20188	-726	6.0
6.1	-22035	-760	.8947554	-1837	-684	.8915048	-1852	-688	.8881856	-18843	-691	.8847972	-18995	-693	6.1
6.2	-364	-785	.9094257	-1707	-640	.9065517	-1738	-645	.9036133	-17610	-649	.9006100	-17888	-653	6.2
6.3	-21757	-785	.9223913	-1571	-592	.9198655	-18005	-598	.9172800	-18299	-603	.9146342	-18587	-608	6.3
6.4	-303	-775	.9337853	-14359	-542	.9315785	-14855	-543	.9293168	-14948	-554	.9269997	-15240	-561	6.4
6.5	-1757	-753	.9437434	-13018	-481	.9418260	-13392	-488	.9398588	-13591	-505	.9378412	-13891	-511	6.5











u	p = 23.0				p = 23.2				p = 23.4				p = 23.6				p = 23.8				p = 24.0	
	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	u
1.1	.0000000				.0000000				.0000000				.0000000				.0000000				.0000000	1.1
1.2	.0000000				.0000000				.0000000				.0000000				.0000000				.0000000	1.2
1.3	.0000001	+1			.0000001	+1			.0000000	+1			.0000000	+1			.0000000	+1			.0000000	1.3
1.4	.0000003	+2			.0000002	+3			.0000002	+3			.0000002	+3			.0000001	+2			.0000001	1.4
1.5	.0000009	+5			.0000008	+9			.0000006	+9			.0000005	+6			.0000004	+7			.0000004	1.5
1.6	.0000027	+18			.0000023	+24			.0000019	+21			.0000016	+18			.0000014	+16			.0000012	1.6
1.7	.0000072	+33			.0000062	+45			.0000053	+37			.0000045	+32			.0000039	+28			.0000033	1.7
1.8	.0000178	+78			.0000154	+114			.0000134	+99			.0000116	+87			.0000100	+78			.0000087	1.8
1.9	.0000412	+184		+4	.0000360	+218		+7	.0000314	+196		+6	.0000274	+175		+6	.0000239	+156		+6	.0000209	1.9
2.0	.0000890	+444		+14	.0000784	+491		+12	.0000690	+361		+11	.0000607	+296		+10	.0000534	+293		+9	.0000469	2.0
2.1	.0001812	+121		+24	.0001609	+110		+22	.0001427	+105		+20	.0001266	+94		+17	.0001122	+84		+15	.0000993	2.1
2.2	.0003499	+275		+41	.0003128	+294		+38	.0002795	+244		+34	.0002496	+199		+31	.0002228	+181		+27	.0001987	2.2
2.3	.0006432	+579		+68	.0005789	+689		+62	.0005208	+594		+56	.0004682	+499		+51	.0004207	+419		+40	.0003778	2.3
2.4	.0011311	+1048		+104	.0010245	+1407		+105	.0009274	+1209		+87	.0008390	+1022		+81	.0007587	+888		+72	.0006856	2.4
2.5	.0019095	+1773		+164	.0017398	+2297		+142	.0015843	+1859		+131	.0014419	+1537		+121	.0013116	+1317		+112	.0011924	2.5
2.6	.0031049	+2843		+219	.0028448	+3847		+204	.0026051	+3009		+190	.0023844	+2478		+175	.0021812	+2049		+163	.0019943	2.6
2.7	.0048772	+4392		+302	.0044925	+5894		+281	.0041359	+4529		+253	.0038057	+3733		+245	.0035000	+3147		+229	.0032172	2.7
2.8	.0074206	+6759		+400	.0068696	+8999		+377	.0063563	+6924		+304	.0058783	+5674		+282	.0054335	+4839		+259	.0050199	2.8
2.9	.0109615	+10218		+516	.0101960	+14019		+486	.0094791	+11141		+461	.0088083	+9098		+434	.0081809	+7544		+410	.0075945	2.9
3.0	.0157541	+15292		+643	.0147199	+20476		+619	.0137470	+14105		+580	.0128321	+13548		+551	.0119723	+13002		+523	.0111648	3.0
3.1	.0220719	+21891		+782	.0207114	+27453		+745	.0194254	+18987		+713	.0182107	+16315		+679	.0170639	+15738		+646	.0159817	3.1
3.2	.0301978	+29894		+923	.0284514	+37288		+895	.0267935	+27070		+850	.0252206	+21118		+814	.0237291	+18507		+779	.0223155	3.2
3.3	.0404101	+40462		+1061	.0382197	+49926		+1024	.0361317	+35281		+987	.0341423	+28881		+950	.0322480	+24215		+915	.0304452	3.3
3.4	.0529686	+54728		+1191	.0502806	+73287		+1154	.0477080	+52790		+1118	.0452471	+42901		+1082	.0428944	+35804		+1046	.0406463	3.4
3.5	.0680999	+73516		+1303	.0648682	+102159		+1269	.0617633	+76784		+1235	.0587820	+60387		+1201	.0559208	+50911		+1167	.0531763	3.5
3.6	.0859827	+99702		+1393	.0821717	+136480		+1363	.0784970	+102229		+1333	.0749556	+79851		+1302	.0715443	+67651		+1271	.0682602	3.6
3.7	.1067357	+132193		+1433	.1023232	+181230		+1429	.0980536	+136916		+1404	.0939243	+106883		+1378	.0899323	+91281		+1352	.0860767	3.7
3.8	.1304080	+179259		+1481	.1253867	+249171		+1468	.1205118	+189075		+1444	.1157813	+149095		+1425	.1111933	+127555		+1404	.1067457	3.8
3.9	.1569728	+240764		+1479	.1513519	+335199		+1462	.1458773	+253404		+1451	.1405478	+198540		+1433	.1353620	+169908		+1424	.1303187	3.9
4.0	.1863251	+319000		+1427	.1801304	+44479		+1425	.1740783	+28862		+1421	.1681683	+27212		+1416	.1624000	+27524		+1410	.1567726	4.0
4.1	.2182834	+423375		+1347	.2115568	+59410		+1353	.2049655	+40063		+1357	.1985100	+31539		+1360	.1921904	+26504		+1361	.1860069	4.1
4.2	.2525950	+569383		+1235	.2453932	+79178		+1248	.2383162	+53745		+1260	.2313652	+42382		+1270	.2245412	+32988		+1280	.2178450	4.2
4.3	.2889449	+751627		+1095	.2813374	+105223		+1115	.2738414	+140285		+1133	.2664586	+109444		+1150	.2591908	+87963		+1165	.2520395	4.3
4.4	.3269675	+100995		+933	.3190339	+139584		+958	.3111961	+184415		+992	.3034564	+142488		+1004	.2958172	+109909		+1026	.2882805	4.4
4.5	.3662596	+138433		+758	.3580868	+19341		+783	.3499923	+250240		+812	.3419790	+191126		+840	.3340496	+142001		+866	.3262069	4.5
4.6	.4063950	+184086		+565	.3980738	+256007		+593	.3898125	+334444		+630	.3816170	+258830		+662	.3734821	+197732		+692	.3654192	4.6
4.7	.4469390	+241801		+374	.4358615	+336161		+408	.4302248	+440248		+443	.4219324	+334999		+477	.4136878	+25898		+510	.4054941	4.7
4.8	.4874629	+318408		+186	.4791187	+445607		+229	.4707967	+589077		+257	.4625005	+449999		+292	.4542333	+33980		+226	.4459988	4.8
4.9	.5275560	+41384		+8	.5193303	+57388		+48	.5111089	+75844		+77	.5028953	+58738		+112	.4946928	+43922		+146	.4865049	4.9
5.0	.5668370	+53448		-157	.5588081	+75866		-124	.5507667	+10144		-91	.5427163	+7406		-58	.5346601	+5888		-24	.5266015	5.0
5.1	.6049630	+68489		-303	.5972003	+100483		-274	.5894101	+13323		-243	.5815956	+9465		-212	.5737599	+7496		-181	.5659061	5.1
5.2	.6416359	+89123		-439	.6341988	+130508		-413	.6267212	+17028		-371	.6192059	+12498		-346	.6116557	+9499		-321	.6040734	5.2
5.3	.6766065	+11512		-639	.6695438	+16625		-613	.6624297	+21927		-497	.6552664	+15501		-469	.6480566	+10495		-441	.6408028	5.3
5.4	.7096768	+15212		-623	.7030263	+21904		-603	.6963155	+28914		-582	.6895464	+19608		-561	.6827212	+14270		-540	.6758420	5.4
5.5	.7406999	+19462		-696	.7344884	+29285		-670	.7282099	+38477		-653	.7218661	+26982		-635	.7154588	+18685		-613	.7089897	5.5
5.6	.7695780	+25166		-728	.7638220	+38997		-716	.7579944	+51807		-702	.7520966	+36446		-689	.7461299	+24570		-676	.7400958	5.6
5.7	.7962595	+32875		-750	.7909659	+51909		-742	.7855982	+68993		-739	.7801572	+49000		-723	.7746440	+32904		-712	.7690595	5.7
5.8	.8207345	+42314		-757	.8159018	+68823		-751	.8109940	+9284		-743	.8060118	+6488		-738	.8009557	+4368		-731	.7958265	5.8
5.9	.8430298	+54224		-748	.8386491	+91387		-745	.8341938	+12505		-742	.8296644	+8822		-736	.8250611	+5806		-734	.8203843	5.9
6.0	.8632036	+68202		-727	.8592597	+120560		-737	.8552430	+16224		-729	.8511538	+11060		-725	.8469921	+7448		-724	.8427580	6.0
6.1	.8813395	+84131		-696	.8778123	+15819		-698	.8742152	+21099		-699	.8705482	+1480		-701	.8668112	+9193		-701	.8630040	6.1
6.2	.8975413	+10156		-657	.8944069	+20919		-681	.8912064	+28121		-664	.8879394	+19884		-667	.8846507	+13139		-670	.8812050	6.2
6.3	.9119275	+12872		-614	.9091594	+27615		-619	.9063295	+36715		-623	.9034372	+26704		-628	.9004822	+17978		-632	.8974640	6.3
6.4	.9246265	+16519		-567	.9221966	+36119		-572	.9197095	+46582		-578	.9171646	+38901		-583	.9145614	+26673		-588	.9118993	6.4
6.5	.9357724	+21170		-515	.9336519	+46813		-524	.9314789	+59473		-580	.9292529	+5087		-586	.9269733	+3324		-542	.9246394	6.5
6.6	.9455013	+27283		-469	.9436611	+60103		-475	.9417734	+75892		-492	.9398375	+6373		-488	.9378528	+4200		-495	.9358186	6.6
6.7	.9539479	+35114		-420	.9523598	+75868		-427	.9507290	+94644		-494	.9490548	+8386		-440	.9473365	+5400		-447	.9455736	6.7
6.8	.9612431	+44801		-374	.9598799	+94030		-381	.9584785	+11778		-387	.9570385	+1041		-394	.9555590	+6505		-400	.9540396	6.8
6.9	.9675122	+56581		-330	.9663480	+11819		-337	.9651502	+15666		-345	.9639181	+1015		-349	.9626510	+6022		-356	.9613484	6.9
7.0	.9728732	+70884		-289	.9718840	+15606		-285	.9708653	+20631		-301	.9698164	+1458		-307	.9687368	+890				



u	p = 24.0		p = 24.2		p = 24.4		p = 24.6		p = 24.8		p = 25.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
1.1													1.1		
1.2			.0000000			.0000000			.0000000			.0000000		1.2	
1.3	+1		.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+1	1.3	
1.4	+2 +3		.0000001	+1 +2		.0000001	+1 +2		.0000001	+1 +2		.0000000	+2 +0	1.4	
1.5	+5 +8		.0000003	+5 +8		.0000003	+3 +4		.0000002	+3 +3		.0000002	+9 +1	1.5	
1.6	+13 +33		.0000010	+11 +30		.0000008	+11 +27		.0000007	+9 +26		.0000005	+7 +5	1.6	
1.7	+18 +68		.0000028	+18 +60		.0000024	+15 +52		.0000021	+14 +47		.0000018	+12 +42	1.7	
1.8	+35 +135	+4	.0000075	+30 +123		.0000065	+27 +111		.0000056	+25 +95		.0000048	+23 +88	1.8	
1.9	+86		.0000182	+43	+4	.0000158	+46		.0000138	+41		.0000120	+38	1.9	
2.0	+264 +40	+8	.0000412	+237 +78	+7	.0000362	+212 +70	+6	.0000318	+190 +68	+5	.0000278	+172 +53	+5	2.0
2.1	+121 +77	+14	.0000879	+426 +119	+13	.0000778	+324 +108	+11	.0000688	+348 +97	+16	.0000608	+313 +95	+0	2.1
2.2	+183 +1287	+25	.0001772	+726 +167	+22	.0001578	+664 +141	+20	.0001406	+603 +138	+18	.0001251	+550 +125	+16	2.2
2.3	+213 +1599	+42	.0003391	+1183 +209	+38	.0003042	+1085 +195	+34	.0002727	+996 +162	+31	.0002444	+912 +178	+28	2.3
2.4	+258	+67	.0006193	+1701 +251	+61	.0005591	+1701 +236	+55	.0005044	+1571 +229	+51	.0004549	+1450 +217	+48	2.4
2.5	+2951 +298	+102	.0010835	+2748 +287	+95	.0009841	+2555 +282	+87	.0008932	+2375 +274	+80	.0008104	+2205 +232	+73	2.5
2.6	+4210 +329	+151	.0018225	+3943 +325	+135	.0016646	+4361 +318	+128	.0015195	+3833 +306	+119	.0013864	+3228 +298	+110	2.6
2.7	+5798 +333	+214	.0029558	+5483 +333	+193	.0027142	+5145 +328	+185	.0024911	+4539 +331	+172	.0022852	+4549 +329	+159	2.7
2.8	+7719 +317	+291	.0046354	+7316 +329	+273	.0042783	+8927 +327	+256	.0039466	+6589 +325	+240	.0036389	+5190 +325	+224	2.8
2.9	+9957 +271	+385	.0070466	+9489 +282	+384	.0065351	+9936 +289	+341	.0060577	+8598 +297	+322	.0056125	+8174 +308	+303	2.9
3.0	+12466 +194	+494	.0104067	+11944 +287	+469	.0096955	+11434 +293	+443	.0090286	+10937 +242	+418	.0084035	+10455 +232	+397	3.0
3.1	+15169 +87	+816	.0149612	+14608 +114	+586	.0139993	+14058 +134	+558	.0130932	+13518 +151	+629	.0122400	+12988 +171	+604	3.1
3.2	+17959 -35	+748	.0209765	+17386 -14	+714	.0197089	+16816 -13	+683	.0185096	+16250 -42	+650	.0173753	+15692 -68	+822	3.2
3.3	+20714 -180	+880	.0287304	+20987 -145	+845	.0271001	+19387 -118	+812	.0255510	+19024 -81	+779	.0240798	+18492 -65	+747	3.3
3.4	+23289 -325	+1011	.0384993	+22789 -298	+978	.0364500	+23240 -263	+942	.0344948	+21707 -235	+908	.0326305	+21187 -202	+875	3.4
3.5	+25539 -453	+1133	.0505451	+26092 -437	+1099	.0480239	+24636 -408	+1068	.0456093	+24155 -377	+1033	.0432979	+23670 -366	+1000	3.5
3.6	+27328 -688	+1240	.0651001	+26978 -538	+1209	.0620608	+28912 -534	+1177	.0591393	+28226 -608	+1146	.0563323	+25823 -482	+1114	3.6
3.7	+28625 -684	+1325	.0823529	+28306 -647	+1297	.0787589	+28950 -647	+1276	.0752919	+27782 -594	+1241	.0719490	+27494 -598	+1213	3.7
3.8	+29040 -746	+1383	.1024363	+28966 -735	+1366	.0982630	+28891 -721	+1337	.0942234	+28727 -705	+1314	.0903151	+28567 -696	+1289	3.8
3.9	+28809 -774	+1409	.1254163	+28891 -767	+1392	.1206532	+28941 -763	+1378	.1160276	+28960 -739	+1358	.1115379	+28945 -746	+1339	3.9
4.0	+27804 -761	+1402	.1512854	+28943 -769	+1393	.1459375	+28250 -771	+1382	.1407278	+28434 -786	+1371	.1356552	+28577 -766	+1358	4.0
4.1	+26038 -708	+1360	.1799594	+26438 -717	+1358	.1740477	+26806 -729	+1365	.1682714	+27142 -745	+1350	.1626302	+27443 -762	+1344	4.1
4.2	+23564 -625	+1285	.2112772	+24664 -646	+1290	.2048385	+24664 -653	+1294	.1985292	+25056 -673	+1297	.1923495	+25357 -691	+1298	4.2
4.3	+20405 -512	+1179	.2450060	+21136 -537	+1191	.2380917	+21779 -561	+1262	.2312975	+22395 -587	+1211	.2246245	+22990 -603	+1210	4.3
4.4	+16854 -384	+1046	.2808484	+17825 -412	+1064	.2735228	+18873 -438	+1081	.2663053	+18098 -463	+1097	.2591975	+19900 -485	+1112	4.4
4.5	+12859 -338	+891	.3184533	+13792 -268	+915	.3107912	+14529 -300	+938	.3032229	+13338 -331	+859	.2957505	+16127 -356	+970	4.5
4.6	+8926 -305	+721	.3574284	+9511 -237	+743	.3495125	+10385 -185	+778	.3416743	+11247 -254	+802	.3339162	+12098 -217	+827	4.6
4.7	+4298 +44	+542	.3973546	+5193 -19	+573	.3892723	+6086 -14	+603	.3812504	+8972 -43	+632	.3732917	+7852 -74	+661	4.7
4.8	+14 +175	+359	.4378001	+834 +144	+392	.4296407	+1773 +120	+427	.4215237	+2654 +92	+456	.4134524	+3532 +69	+487	4.8
4.9	-496 +284	+186	.4783350	-3261 +262	+213	.4701864	-2420 +241	+246	.4620624	-1572 +216	+279	.4539663	-719 +188	+311	4.9
5.0	-7920 +372	+9	.5185438	-7154 +361	+41	.5104901	-6372 +335	+74	.5024439	-5583 +818	+106	.4944083	-4782 +560	+139	5.0
5.1	-11373 +447	-150	.5580372	-10689 +447	-119	.5501566	-9089 -217	-87	.5422672	-8274 -274	-66	.5343721	-8545 -293	-25	5.1
5.2	-14379 +483	-292	.5964620	-13794 +484	-263	.5888242	-13186 +466	-234	.5811631	-12564 +462	-205	.5734814	-11923 +450	-176	5.2
5.3	-16902 +510	-415	.6335074	-16418 +503	-389	.6261732	-16917 +507	-363	.6188026	-15392 +454	-336	.6113984	-14851 +491	-309	5.3
5.4	-18915 +512	-618	.6689110	-19339 +513	-495	.6619305	-18141 +507	-479	.6549029	-17726 +513	-440	.6478303	-17298 +508	-426	5.4
5.5	-20416 +483	-599	.7024607	-20147 +498	-599	.6958737	-19858 +506	-661	.6892306	-19547 +496	-641	.6825334	-19217 +512	-621	5.5
5.6	-21424 +465	-660	.7339957	-21257 +478	-845	.7278311	-21069 +477	-829	.7216036	-20654 +486	-618	.7153148	-20254 +499	-606	5.6
5.7	-21967 +418	-701	.7634050	-21894 +429	-639	.7576816	-21803 +441	-677	.7518904	-21691 +446	-684	.7460328	-21562 +456	-651	5.7
5.8	-22092 +376	-724	.7906249	-22102 +376	-715	.7853518	-22003 +394	-708	.7800081	-22074 +407	-697	.7745946	-22084 +417	-687	5.8
5.9	-21841 +313	-739	.8156346	-21926 +325	-725	.8108124	-21895 +339	-719	.8059184	-22059 +350	-713	.8009530	-22089 +361	-706	5.9
6.0	-21277 +285	-722	.8384517	-21422 +272	-719	.8340735	-21655 +285	-716	.8296237	-21676 +299	-713	.8251025	-21783 +309	-709	6.0
6.1	-20450 +203	-702	.8591266	-20844 +213	-703	.8551791	-20850 +229	-701	.8511614	-21003 +236	-706	.8470737	-21054 +253	-699	6.1
6.2	-19420 +153	-672	.8777371	-19653 +166	-674	.8742017	-19878 +172	-678	.8705988	-20094 +189	-677	.8669281	-20300 +194	-678	6.2
6.3	-18237 +103	-635	.8943323	-18236 +111	-639	.8912367	-18760 +124	-642	.8880268	-18996 +130	-645	.8847525	-19268 +144	-645	6.3
6.4	-16952 +58	-593	.9091779	-17228 +69	-598	.9063967	-17590 +77	-602	.9035552	-17765 +88	-607	.9006531	-18632 +98	-611	6.4
6.5	-15809 +24	-548	.9222507	-15891 +28	-553	.9198067	-16173 +55	-559	.9173068	-16432 +42	-564	.9147505	-16728 +48	-569	6.5
6.6	-14242 -15	-501	.9337344	-14528 -3	-507	.9315994	-14811 +3	-513	.9294132	-15094 +9	-519	.9271751	-15376 +18	-524	6.6
6.7	-12890 -34	-433	.9437653	-13168 -32	-460	.9419110	-13447 +29	-466	.9400102	-13727 +20	-472	.9380621	-14006 +17	-478	6.7
6.8	-11572 -59	-407	.9524794	-11840 -64	-413	.9508779	-12109 -62	-420	.9492345	-12389 -48	-428	.9475485	-12658 -41	-432	6.8
6.9	-10313 -70	-362	.9600095	-10565 -70	-368	.9586339	-10823 -85	-375	.9572208	-11081 -82	-381	.9557696	-11340 -69	-387	6.9
7.0	-9124 -85	-319	.9664830	-9362 -80	-326	.9653076	-9802 -78	-332	.9640990	-9844 -78	-336	.9628567	-10091 -75	-344	7.0





u	p = 24.0		p = 24.2		p = 24.4		p = 24.6		p = 24.8		p = 25.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
7.0	-8124 -85	-319	.9664830	-9382 -80	-326	.9653076	-9602 -78	-332	.9640990	-9644 -75	-338	.9628567	-10091 -75	-344	.9615799	-10336 -75	-350	7.0
7.1	-8920 -89	-280	.9720203	-8238 -83	-286	.9710211	-8489 -87	-291	.9699928	-8885 -84	-297	.9689347	-8911 -83	-303	.9678464	-8143 -82	-309	7.1
7.2	-7092 -92	-243	.9767338	-7201 -90	-249	.9758887	-7405 -90	-254	.9750181	-7810 -90	-259	.9741216	-7829 -90	-265	.9731986	-8032 -89	-270	7.2
7.3	-6075 -93	-210	.9807272	-6258 -92	-215	.9800158	-6441 -92	-220	.9792824	-6825 -92	-225	.9785265	-6815 -91	-230	.9777476	-7010 -93	-235	7.3
7.4	-5248 -90	-180	.9840948	-6403 -90	-185	.9834988	-6567 -91	-189	.9828839	-6735 -92	-194	.9822496	-6905 -92	-199	.9815955	-6981 -90	-203	7.4
7.5	-4498 -85	-154	.9869221	-6404 -87	-155	.9864251	-6728 -88	-162	.9859119	-6934 -89	-166	.9853822	-7087 -89	-170	.9848355	-7242 -88	-174	7.5
7.6	-3535 -80	-130	.9892854	-6062 -81	-134	.9888728	-6090 -82	-137	.9884465	-6222 -83	-141	.9880061	-6367 -84	-143	.9875512	-6493 -85	-148	7.6
7.7	-3257 -73	-110	.9912525	-5866 -75	-113	.9909115	-5878 -76	-116	.9905589	-5993 -77	-118	.9901943	-6096 -79	-122	.9898176	-6211 -79	-126	7.7
7.8	-2749 -67	-92	.9928830	-5243 -69	-95	.9926024	-5241 -70	-97	.9923120	-5304 -72	-100	.9920116	-5344 -73	-103	.9917009	-5426 -76	-106	7.8
7.9	-2311 -61	-77	.9942292	-4822 -62	-79	.9939992	-4765 -63	-81	.9937610	-4861 -65	-84	.9935145	-4949 -67	-86	.9932594	-5041 -65	-89	7.9
8.0	-1931 -54	-64	.9953362	-4402 -65	-66	.9951484	-4272 -67	-68	.9949539	-4346 -69	-70	.9947525	-4423 -70	-72	.9945438	-4504 -69	-74	8.0
8.1	-1698 -48	-53	.9962430	-4066 -60	-54	.9960904	-4061 -61	-56	.9959322	-4172 -61	-58	.9957682	-4285 -63	-59	.9955983	-4393 -64	-61	8.1
8.2	-1333 -43	-43	.9969832	-3844 -54	-45	.9968595	-3843 -55	-46	.9967313	-3966 -56	-47	.9965984	-4091 -57	-49	.9964605	-4211 -58	-50	8.2
8.3	-1100 -37	-35	.9975850	-3638 -53	-36	.9974853	-3638 -53	-36	.9973818	-3769 -54	-39	.9972744	-3906 -55	-40	.9971630	-4047 -56	-41	8.3
8.4	-904 -32	-28	.9980727	-3539 -53	-39	.9979925	-3539 -53	-39	.9979093	-3681 -55	-42	.9978229	-3828 -56	-43	.9977332	-3981 -57	-44	8.4
8.5	-740 -27	-23	.9984665	-3459 -52	-24	.9984023	-3459 -52	-25	.9983356	-3611 -53	-26	.9982663	-3768 -54	-27	.9981944	-3929 -55	-28	8.5
8.6	-603 -23	-18	.9987834	-3392 -52	-18	.9987322	-3392 -52	-20	.9986789	-3562 -53	-21	.9986236	-3719 -54	-21	.9985661	-3884 -55	-22	8.6
8.7	-490 -20	-15	.9990376	-3338 -51	-16	.9989968	-3338 -51	-16	.9989545	-3493 -52	-17	.9989104	-3647 -53	-17	.9988647	-3811 -54	-18	8.7
8.8	-397 -17	-12	.9992408	-3294 -51	-12	.9992085	-3294 -51	-13	.9991749	-3424 -51	-13	.9991400	-3574 -52	-14	.9991037	-3711 -53	-14	8.8
8.9	-319 -14	-10	.9994028	-3253 -51	-10	.9993772	-3253 -51	-10	.9993507	-3361 -51	-11	.9993231	-3517 -52	-11	.9992944	-3661 -53	-11	8.9
9.0	-258 -12	-7	.9995315	-2853 -51	-8	.9995114	-2853 -51	-8	.9994904	-2989 -51	-9	.9994687	-3133 -51	-9	.9994460	-3281 -51	-8	9.0
9.1	-205 -10	-6	.9996334	-2514 -50	-6	.9996176	-2514 -50	-6	.9996012	-2633 -50	-7	.9995841	-2742 -51	-7	.9995663	-2852 -51	-7	9.1
9.2	-164 -8	-5	.9997139	-2171 -49	-5	.9997015	-2171 -49	-5	.9996887	-2289 -49	-5	.9996753	-2403 -50	-6	.9996614	-2512 -50	-6	9.2
9.3	-130 -7	-4	.9997773	-1836 -49	-4	.9997677	-1836 -49	-4	.9997576	-1947 -49	-4	.9997472	-2055 -49	-4	.9997363	-2160 -49	-4	9.3
9.4	-105 -7		.9998271	-1509 -48		.9998196	-1509 -48		.9998118	-1618 -48		.9998036	-1721 -48		.9997952	-1828 -48		9.4
9.5	-81 -5		.9998660	-1184 -48		.9998602	-1184 -48		.9998542	-1283 -48		.9998479	-1385 -48		.9998413	-1486 -48		9.5
9.6	-65 -4		.9998965	-858 -47		.9998920	-858 -47		.9998873	-955 -47		.9998824	-1051 -47		.9998774	-1151 -47		9.6
9.7	-50 -4		.9999202	-532 -47		.9999168	-532 -47		.9999131	-624 -47		.9999094	-714 -47		.9999055	-804 -47		9.7
9.8	-40 -4		.9999386	-206 -46		.9999360	-206 -46		.9999332	-294 -46		.9999303	-384 -46		.9999273	-474 -46		9.8
9.9	-31 -4		.9999529	-80 -46		.9999509	-80 -46		.9999487	-164 -46		.9999465	-254 -46		.9999442	-344 -46		9.9
10.0	-25 -4		.9999640	-26 -46		.9999624	-26 -46		.9999608	-104 -46		.9999591	-194 -46		.9999573	-284 -46		10.0
10.1	-18 -4		.9999725	-20 -46		.9999713	-21 -46		.9999700	-84 -46		.9999687	-174 -46		.9999674	-264 -46		10.1
10.2	-15 -4		.9999790	-15 -46		.9999781	-16 -46		.9999772	-64 -46		.9999762	-154 -46		.9999751	-244 -46		10.2
10.3	-12 -4		.9999840	-12 -46		.9999833	-13 -46		.9999826	-44 -46		.9999819	-134 -46		.9999811	-224 -46		10.3
10.4	-9 -4		.9999879	-10 -46		.9999874	-11 -46		.9999868	-24 -46		.9999863	-114 -46		.9999857	-204 -46		10.4
10.5	-7 -4		.9999908	-8 -46		.9999904	-9 -46		.9999900	-4 -46		.9999896	-84 -46		.9999891	-184 -46		10.5
10.6	-6 -4		.9999931	-6 -46		.9999928	-7 -46		.9999925	-4 -46		.9999921	-74 -46		.9999918	-164 -46		10.6
10.7	-5 -4		.9999948	-5 -46		.9999945	-5 -46		.9999943	-4 -46		.9999941	-64 -46		.9999938	-144 -46		10.7
10.8	-4 -4		.9999961	-4 -46		.9999959	-4 -46		.9999957	-4 -46		.9999955	-44 -46		.9999953	-124 -46		10.8
10.9			.9999970			.9999969			.9999968			.9999966			.9999965			10.9
11.0			.9999978			.9999977			.9999976			.9999975			.9999974			11.0
11.1			.9999983			.9999983			.9999982			.9999981			.9999980			11.1
11.2			.9999988			.9999987			.9999987			.9999986			.9999985			11.2
11.3			.9999991			.9999990			.9999990			.9999990			.9999989			11.3
11.4			.9999993			.9999993			.9999993			.9999992			.9999992			11.4
11.5			.9999995			.9999995			.9999994			.9999994			.9999994			11.5
11.6			.9999996			.9999996			.9999996			.9999996			.9999996			11.6
11.7			.9999997			.9999997			.9999997			.9999997			.9999997			11.7
11.8			.9999998			.9999998			.9999998			.9999998			.9999998			11.8
11.9			.9999998			.9999998			.9999998			.9999998			.9999998			11.9
12.0			.9999999			.9999999			.9999999			.9999999			.9999999			12.0
12.1			.9999999			.9999999			.9999999			.9999999			.9999999			12.1
12.2			.9999999			.9999999			.9999999			.9999999			.9999999			12.2
12.3			1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			12.3
12.4																		12.4



u	p = 25.0			p = 25.2			p = 25.4			p = 25.6			p = 25.8			p = 26.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	u
1.2	.0000000																1.2
1.3	.0000000																1.3
1.4	.0000000	+2		.0000000	+1		.0000000	+1		.0000000			.0000000			.0000000	1.4
1.5	.0000002	+3		.0000001	+2		.0000001	+2		.0000001	+2		.0000001	+1		.0000001	1.5
1.6	.0000005	+7		.0000004	+6		.0000004	+4		.0000003	+4		.0000003	+4		.0000002	1.6
1.7	.0000015	+16		.0000013	+14		.0000011	+13		.0000009	+11		.0000008	+10		.0000007	1.7
1.8	.0000041	+37		.0000036	+33		.0000031	+28		.0000026	+25		.0000023	+21		.0000019	1.8
1.9	.0000104	+77		.0000091	+68		.0000079	+60		.0000068	+54		.0000059	+49		.0000051	1.9
2.0	.0000244	+163	+4	.0000214	+137		.0000187	+123		.0000164	+109		.0000143	+98		.0000125	2.0
2.1	.0000537	+354	+8	.0000474	+292	+7	.0000418	+230	+6	.0000369	+207	+6	.0000325	+189	+6	.0000286	2.1
2.2	.0001113	+809	+14	.0000989	+653	+13	.0000879	+510	+13	.0000781	+374	+10	.0000693	+339	+9	.0000615	2.2
2.3	.0002188	+1722	+26	.0001959	+1459	+23	.0001752	+1067	+21	.0001567	+840	+19	.0001400	+653	+17	.0001251	2.3
2.4	.0004100	+3536	+42	.0003693	+2833	+38	.0003325	+2043	+33	.0002993	+1493	+32	.0002692	+1178	+29	.0002420	2.4
2.5	.0007348	+7043	+68	.0006660	+5697	+61	.0006033	+4158	+66	.0005462	+2929	+61	.0004942	+2109	+47	.0004470	2.5
2.6	.0012644	+14086	+100	.0011524	+11213	+94	.0010499	+8123	+86	.0009560	+5824	+80	.0008701	+4274	+73	.0007914	2.6
2.7	.0020952	+28172	+149	.0019201	+22426	+138	.0017588	+16113	+123	.0016102	+11628	+113	.0014734	+8309	+110	.0013476	2.7
2.8	.0033536	+56344	+208	.0030891	+44853	+196	.0028441	+32618	+182	.0026172	+23119	+169	.0024073	+16482	+158	.0022131	2.8
2.9	.0051975	+112688	+294	.0048109	+89706	+286	.0044510	+65233	+260	.0041160	+46482	+234	.0038044	+33290	+219	.0035147	2.9
3.0	.0078181	+225376	+413	.0072700	+179412	+393	.0067572	+130889	+332	.0062777	+93641	+313	.0058295	+67427	+293	.0054108	3.0
3.1	.0114372	+450752	+573	.0106821	+358824	+543	.0099723	+261778	+429	.0093055	+189333	+407	.0086793	+137118	+353	.0080916	3.1
3.2	.0163032	+901504	+803	.0152904	+717648	+753	.0143341	+523516	+588	.0134316	+374144	+512	.0125804	+264847	+487	.0117780	3.2
3.3	.0226834	+1803008	+1116	.0213585	+1435296	+1038	.0201023	+1017933	+813	.0189118	+704288	+628	.0177841	+482600	+600	.0167164	3.3
3.4	.0308537	+3606016	+1544	.0291612	+2870592	+1411	.0275498	+2053476	+1116	.0260165	+1438947	+887	.0245581	+964433	+720	.0231717	3.4
3.5	.0410865	+7212032	+2072	.0389719	+5741184	+1933	.0369507	+4116963	+1513	.0350199	+2846424	+1213	.0331764	+1900960	+841	.0314170	3.5
3.6	.0536367	+14424064	+2836	.0510495	+11482368	+2616	.0485675	+8145216	+2021	.0461875	+5602960	+1490	.0439065	+3869960	+960	.0417215	3.6
3.7	.0687273	+28848128	+3816	.0656241	+22964736	+3542	.0626364	+16290432	+2716	.0597613	+11195920	+1997	.0569959	+7479222	+1363	.0543373	3.7
3.8	.0865358	+57696256	+5152	.0828830	+45929472	+4722	.0793540	+32580864	+3621	.0759464	+22131840	+2617	.0726575	+14959544	+1811	.0694848	3.8
3.9	.1071820	+115392512	+6936	.1029581	+91858944	+6300	.0988640	+65161728	+4827	.0948976	+43421120	+3456	.0910568	+28943360	+2533	.0873394	3.9
4.0	.1307184	+230785024	+9248	.1259159	+183717888	+8400	.1212464	+130813152	+6314	.1167083	+87208640	+4647	.1122999	+58162240	+3400	.1080195	4.0
4.1	.1571235	+461570048	+12336	.1517505	+367435776	+11200	.1465103	+261461824	+8419	.1414021	+174308160	+6139	.1364248	+116245120	+4512	.1315772	4.1
4.2	.1862996	+923140096	+16448	.1803794	+734871552	+14936	.1745888	+522923648	+11223	.1689276	+354881280	+8289	.1633952	+236987520	+6000	.1579913	4.2
4.3	.2180733	+1846280192	+21936	.2116448	+1469743104	+19912	.2053393	+1045847296	+15133	.1991574	+703254400	+10627	.1930992	+475475040	+8000	.1871649	4.3
4.4	.2522009	+3692560384	+29248	.2453168	+2939486208	+26544	.2385463	+2025632640	+19617	.2318905	+1363504000	+11568	.2253503	+909000000	+1164	.2189265	4.4
4.5	.2883760	+7385120768	+39000	.2811014	+5878972416	+35392	.2739283	+4183603200	+26133	.2668584	+2842048000	+16477	.2598932	+1901376000	+1661	.2530341	4.5
4.6	.3262409	+14770241536	+51600	.3186507	+11757944832	+47184	.3111478	+8518206400	+34200	.3037343	+5678137600	+21913	.2964124	+3811116000	+2384	.2891839	4.6
4.7	.3653991	+29540483072	+69600	.3575754	+23515889664	+62912	.3498231	+17036417200	+45600	.3421449	+11385424000	+29616	.3345431	+7471210000	+3288	.3270202	4.7
4.8	.4054297	+59080966144	+92800	.3974586	+47031779328	+83872	.3895422	+34072834400	+60800	.3818333	+22915200000	+40020	.3738846	+15278500000	+4380	.3661488	4.8
4.9	.4459013	+118161932288	+123360	.4378705	+94063558656	+111808	.4298770	+65443840000	+81360	.4219239	+43610130000	+54330	.4140141	+28738700000	+5828	.4061506	4.9
5.0	.4863866	+236323864576	+164480	.4783819	+188127117312	+149056	.4703974	+133682624000	+108160	.4624361	+89121760000	+74640	.4545013	+58754480000	+10000	.4465958	5.0
5.1	.5264746	+472647729152	+219360	.5185777	+376254234624	+198720	.5106846	+261461824000	+141120	.5027982	+174308160000	+104640	.4949216	+116245120000	+13200	.4870579	5.1
5.2	.5657823	+945295458304	+292480	.5580686	+752508469248	+264960	.5503432	+522923648000	+188160	.5426091	+354881280000	+139680	.5348693	+236987520000	+17600	.5271266	5.2
5.3	.6039633	+1890590916608	+390000	.5965000	+1505016938496	+353280	.5890111	+1045847296000	+254400	.5814995	+703254400000	+181440	.5739678	+475475040000	+23200	.5664189	5.3
5.4	.6407153	+3781181833216	+516000	.6335602	+3010033876992	+471040	.6263674	+2025632640000	+338400	.6191395	+1363504000000	+241920	.6118789	+909000000000	+30800	.6045881	5.4
5.5	.6757841	+7562363666432	+688000	.6689849	+6020067753984	+628000	.6621378	+4183603200000	+451200	.6552450	+2842048000000	+324800	.6483088	+1901376000000	+41200	.6413313	5.5
5.6	.7089665	+15124727332864	+917000	.7025603	+12040135507968	+837200	.6960980	+8518206400000	+601600	.6895816	+5678137600000	+429600	.6830128	+3811116000000	+54400	.6763935	5.6
5.7	.7401102	+30249454665728	+1216000	.7341237	+24080271015936	+1115200	.7280751	+17036417200000	+802400	.7219656	+11385424000000	+576000	.7157969	+7471210000000	+72800	.7095705	5.7
5.8	.7691124	+60498909331456	+1616000	.7635626	+48160542031872	+1486400	.7579461	+32580864000000	+1068800	.7522643	+22131840000000	+771200	.7465182	+14959544000000	+96000	.7407091	5.8
5.9	.7959171	+120997818662912	+2152000	.7908113	+97921084063744	+1975200	.7856364	+65161728000000	+1424000	.7803932	+43421120000000	+1046400	.7750827	+28943360000000	+128000	.7697056	5.9
6.0	.8205104	+241995637325824	+2864000	.8158479	+48399167427168	+2568000	.8111153	+30813152000000	+1920000	.8063133	+20420480000000	+1416000	.8014424	+13711160000000	+168000	.7965031	6.0
6.1	.8429161	+483991274651648	+3816000	.8386888	+96798334854336	+3424000	.8343919	+61452160000000	+2544000	.8300258	+40781376000000	+1812000	.8255908	+27098752000000	+224000	.8210872	6.1
6.2	.8631898	+967982549303296	+5088000	.8593835	+193596669708672	+4568000	.8555095	+120728344000000	+3376000	.8515677	+80488128000000	+2416000	.8475582	+53487504000000	+296000	.8434811	6.2
6.3	.8814134	+1935965098606592	+6784000	.8780094	+387193239417344	+6096000	.8745401	+241584729600000	+4512000	.8710056	+160954240000000	+3224000	.8674056	+107121000000000	+392000	.8637401	6.3
6.4	.8976899	+3871930197213184	+9072000	.8946653	+774386478834688	+8128000	.8915789	+483171720000000	+5952000	.8884305	+320901300000000	+4296000	.8852197	+214954400000000	+512000	.8819463	6.4
6.5	.9121374	+7743860394426368	+12096000	.9094668	+1548772957669376	+10832000	.9067385	+308131520000000	+7936000	.9039519	+204204800000000	+5472000	.9011067	+137111600000000	+680000	.8982025	6.5
6.6	.9248845	+15487720788852736	+16128000	.9225411	+3097545915338752	+14440000	.9201441	+1621152000000000	+10576000	.9176930	+1078137600000000	+7488000	.9151875	+712111600000000	+896000	.9126270	6.6
6.7	.9360662	+30975441577705472	+21504000	.9340219	+6195091835677504	+19248000	.9319286	+4048440000000000	+14112000	.9297857	+2709875200000000	+10160000	.9275927	+1795875200000000	+1168000	.9253491	6.7
6.8	.9458193	+61950883155410944	+28320000	.9440462	+12390183671355188	+24992000	.9422287	+8096960000000000	+18816000	.9403662	+5348812800000000	+13440000	.9384581	+3548750400000000	+1520000	.9365037	6.8
6.9	.9542797	+123901766310821888	+37760000	.9527506	+24780367342710376	+33328000	.9511814	+16193920000000000	+25104000	.9495718	+10712						



u	p = 26.0		p = 26.2		p = 26.4		p = 26.6		p = 26.8		p = 27.0		u	
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$
1.2													1.2	
1.3													1.3	
1.4			·0000000			·0000000			·0000000			·0000000		1.4
1.5	+1		·0000000	+1		·0000000	+1		·0000000	+1		·0000000	+1	1.5
1.6	+4		·0000002	+8		·0000002	+2		·0000001	+2		·0000001	+2	1.6
1.7	+7		·0000006	+7		·0000005	+6		·0000004	+5		·0000003	+4	1.7
1.8	+20		·0000017	+11		·0000014	+16		·0000012	+13		·0000011	+11	1.8
1.9	+42		·0000044	+36		·0000039	+29		·0000033	+26		·0000029	+22	1.9
2.0	+67		·0000109	+76		·0000095	+71		·0000083	+62		·0000073	+54	2.0
2.1	+169	+5	·0000252	+160	+4	·0000222	+134	+4	·0000195	+121		·0000171	+110	2.1
2.2	+307	+9	·0000545	+307	+8	·0000483	+252	+7	·0000428	+209	+9	·0000379	+203	2.2
2.3	+539	+16	·0001117	+446	+14	·0000996	+448	+12	·0000889	+402	+11	·0000792	+367	2.3
2.4	+881	+26	·0002174	+810	+24	·0001952	+743	+22	·0001752	+682	+20	·0001572	+624	2.4
2.5	+1394	+43	·0004041	+1298	+39	·0003651	+1169	+36	·0003297	+1098	+33	·0002976	+1012	2.5
2.6	+2119	+69	·0007196	+1969	+62	·0006539	+1830	+57	·0005940	+1699	+52	·0005392	+1677	2.6
2.7	+3093	+102	·0012320	+2883	+94	·0011257	+2704	+87	·0010281	+2596	+80	·0009385	+2367	2.7
2.8	+4361	+147	·0020337	+4102	+137	·0018679	+3956	+127	·0017148	+3823	+116	·0015735	+3401	2.8
2.9	+5945	+205	·0032456	+5928	+192	·0029957	+817	+190	·0027638	+739	+168	·0025486	+679	2.9
3.0	+7947	+278	·0050198	+7493	+261	·0046550	+7091	+246	·0043147	+6734	+231	·0039975	+6390	3.0
3.1	+10066	+364	·0075403	+9071	+344	·0070234	+9129	+325	·0065390	+8781	+307	·0060854	+8366	3.1
3.2	+12920	+463	·0110218	+12029	+440	·0103097	+11646	+416	·0096395	+11071	+397	·0090088	+10614	3.2
3.3	+16169	+573	·0157061	+14640	+548	·0147505	+14120	+522	·0138471	+13611	+498	·0129936	+13108	3.3
3.4	+17900	+661	·0218544	+17359	+663	·0206033	+16924	+633	·0194158	+16299	+666	·0182892	+15765	3.4
3.5	+20592	+811	·0297386	+20696	+792	·0281385	+19536	+753	·0266137	+19006	+724	·0251613	+18476	3.5
3.6	+23113	+925	·0396294	+22024	+909	·0376273	+22124	+870	·0357121	+21628	+941	·0338810	+21123	3.6
3.7	+26817	+1039	·0517826	+24897	+1016	·0493289	+24464	+991	·0469733	+24020	+953	·0447130	+23564	3.7
3.8	+27671	+1134	·0664255	+26748	+1168	·0634769	+26036	+1081	·0606365	+25605	+1054	·0579014	+23665	3.8
3.9	+29255	+1216	·0837429	+29350	+1187	·0802652	+27818	+1163	·0769038	+27266	+1139	·0736563	+27292	3.9
4.0	+29778	+1262	·1038653	+29704	+1243	·0998353	+29667	+1223	·0959277	+28483	+1203	·0921404	+28334	4.0
4.1	+28564	+1293	·1268581	+28642	+1271	·1222661	+28650	+1257	·1177999	+28708	+1242	·1134579	+28697	4.1
4.2	+27995	+1279	·1527151	+27925	+1270	·1475659	+28028	+1262	·1425429	+28181	+1262	·1376451	+28299	4.2
4.3	+25890	+1239	·1813546	+26256	+1236	·1756680	+26603	+1236	·1701050	+26920	+1232	·1646652	+27208	4.3
4.4	+23460	+1176	·2126197	+23876	+1175	·2064304	+24463	+1179	·2003591	+24990	+1192	·1944061	+26347	4.4
4.5	+20492	+1073	·2462824	+21054	+1085	·2396391	+21602	+1095	·2331052	+22247	+1103	·2266817	+22895	4.5
4.6	+16865	+952	·2820505	+17697	+966	·2750140	+18303	+964	·2680760	+18995	+999	·2612378	+19663	4.6
4.7	+12923	+811	·3195783	+15874	+892	·3122197	+14399	+893	·3049463	+15279	+872	·2977602	+15929	4.7
4.8	+8732	+656	·3584785	+9574	+696	·3508763	+10406	+764	·3433445	+11228	+726	·3358855	+12039	4.8
4.9	+4434	+491	·3983361	+6299	+518	·3905735	+6141	+545	·3828655	+6996	+572	·3752147	+7924	4.9
5.0	+169	+324	·4387226	+1013	+353	·4308848	+1650	+381	·4230851	+2092	+410	·4153263	+3334	5.0
5.1	+3934	+169	·4792101	+3195	+166	·4713811	+3228	+210	·4635739	+4616	+247	·4557913	+700	5.1
5.2	+7754	+1	·5193841	+7026	+30	·5116446	+8277	+69	·5039111	+12519	+66	·4961863	+493	5.2
5.3	+11231	+145	·5588555	+10671	+117	·5512804	+15987	+89	·5436964	+23112	+61	·5361063	+3283	5.3
5.4	+14260	+276	·5972698	+18692	+260	·5899265	+24408	+224	·5825607	+33907	+190	·5751751	+4411	5.4
5.5	+16819	+390	·6343149	+26342	+367	·6272617	+34983	+343	·6201743	+46345	+320	·6130549	+5927	5.5
5.6	+18522	+495	·6697258	+34806	+465	·6630116	+46102	+444	·6562530	+59789	+423	·6494520	+7276	5.6
5.7	+20384	+660	·7032881	+45021	+643	·6969513	+60404	+626	·6905619	+76009	+609	·6841216	+8915	5.7
5.8	+21421	+817	·7348383	+56424	+863	·7289072	+76499	+899	·7229172	+94003	+875	·7168697	+11207	5.8
5.9	+21898	+956	·7642631	+69116	+1044	·7587561	+94443	+1163	·7531858	+11856	+1163	·7475531	+13666	5.9
6.0	+22134	+1076	·7914963	+83409	+1369	·7864227	+11008	+1561	·7812829	+13808	+1653	·7760779	+16208	6.0
6.1	+21902	+1262	·8165155	+99811	+1891	·8118760	+12944	+2104	·8071693	+16009	+2267	·8023959	+18335	6.1
6.2	+21349	+1549	·8393366	+11849	+2549	·8351248	+14011	+2870	·8308461	+17426	+3067	·8265007	+20429	6.2
6.3	+20585	+1849	·8600091	+14009	+3449	·8562125	+16209	+3849	·8523503	+19009	+4169	·8484226	+22415	6.3
6.4	+19500	+2169	·8786101	+16729	+4649	·8752109	+18509	+5249	·8717486	+21409	+5669	·8682230	+24409	6.4
6.5	+18317	+2519	·8952389	+19909	+6149	·8922156	+21409	+7049	·8891323	+23809	+7669	·8859887	+26809	6.5
6.6	+17024	+2869	·9100111	+23609	+8049	·9073393	+24809	+9349	·9046112	+26809	+10169	·9018265	+29809	6.6
6.7	+15675	+3269	·9230542	+28009	+10649	·9207077	+28809	+12449	·9183090	+30809	+13469	·9158576	+33809	6.7
6.8	+14298	+3719	·9345026	+33209	+14049	·9324542	+33809	+16849	·9303579	+35809	+18069	·9282131	+38809	6.8
6.9	+12936	+4219	·9444936	+39409	+18649	·9427158	+39809	+22049	·9408946	+40809	+24069	·9390293	+43809	6.9
7.0	+11606	+4719	·9531642	+46609	+24649	·9516301	+46809	+29249	·9500569	+45809	+30269	·9484439	+48809	7.0







u	p = 26.0		p = 26.2		p = 26.4		p = 26.6		p = 26.8		p = 27.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
7.0	-11606 -50	-379	.9531642	-11866 -54	-386	.9516301	-12127 -50	-391	.9500569	-12399 -42	-397	.9484439	-12651 -40	-403	7.0
7.1	-10336 -72	-837	.9606482	-10532 -70	-343	.9593317	-10831 -58	-349	.9579802	-11078 -67	-355	.9565934	-11333 -59	-360	7.1
7.2	-9138 -83	-298	.9670740	-9568 -61	-303	.9659502	-9598 -83	-309	.9647957	-9335 -76	-314	.9636096	-10071 -75	-320	7.2
7.3	-8023 -90	-281	.9725630	-8235 -89	-266	.9716089	-8431 -90	-271	.9706276	-8667 -83	-276	.9696187	-8987 -87	-282	7.3
7.4	-6999 -92	-220	.9772285	-7192 -92	-231	.9764225	-7388 -82	-236	.9755928	-7586 -91	-241	.9747391	-7790 -91	-246	7.4
7.5	-6006 -93	-195	.9811748	-6239 -93	-200	.9804973	-6417 -94	-204	.9797994	-6599 -93	-209	.9790805	-6781 -92	-213	7.5
7.6	-5226 -99	-168	.9844972	-5383 -91	-172	.9839304	-5540 -93	-176	.9833461	-5702 -94	-180	.9827438	-5866 -92	-184	7.6
7.7	-4477 -98	-143	.9872813	-4613 -88	-140	.9868095	-4756 -89	-160	.9863226	-4899 -90	-164	.9858203	-5044 -91	-167	7.7
7.8	-3812 -81	-121	.9896041	-3935 -82	-124	.9892130	-4058 -83	-127	.9888092	-4184 -84	-130	.9883924	-4315 -86	-134	7.8
7.9	-3290 -75	-102	.9915334	-3335 -78	-104	.9912107	-3443 -78	-107	.9908774	-3555 -76	-110	.9905330	-3698 -79	-113	7.9
8.0	-2723 -68	-85	.9931292	-2814 -70	-87	.9928641	-2907 -70	-90	.9925901	-3008 -72	-92	.9923068	-3161 -73	-95	8.0
8.1	-2282 -82	-71	.9944436	-2361 -63	-73	.9942268	-2442 -64	-75	.9940025	-2524 -66	-77	.9937705	-2609 -67	-79	8.1
8.2	-1905 -55	-59	.9955219	-1971 -55	-60	.9953453	-2040 -62	-62	.9951625	-2111 -69	-64	.9949733	-2184 -61	-66	8.2
8.3	-1581 -49	-48	.9964031	-1640 -60	-50	.9962598	-1698 -52	-51	.9961114	-1757 -53	-53	.9959577	-1818 -55	-55	8.3
8.4	-1309 -43	-40	.9971203	-1356 -44	-41	.9970045	-1404 -45	-42	.9968846	-1435 -46	-43	.9967603	-1509 -48	-45	8.4
8.5	-1077 -37	-32	.9977019	-1116 -38	-33	.9976088	-1159 -39	-34	.9975122	-1201 -40	-35	.9974120	-1244 -41	-37	8.5
8.6	-883 -32	-26	.9981719	-917 -33	-27	.9980972	-951 -34	-28	.9980197	-986 -35	-29	.9979393	-1023 -36	-30	8.6
8.7	-720 -27	-21	.9985502	-748 -28	-22	.9984905	-775 -30	-23	.9984286	-806 -30	-23	.9983643	-836 -31	-24	8.7
8.8	-686 -23	-17	.9988537	-608 -24	-18	.9988062	-631 -25	-18	.9987569	-656 -25	-19	.9987057	-681 -27	-19	8.8
8.9	-473 -20	-14	.9990964	-433 -21	-14	.9990588	-614 -20	-16	.9990196	-632 -22	-16	.9989790	-654 -23	-18	8.9
9.0	-382 -17	-11	.9992898	-398 -17	-11	.9992600	-413 -17	-12	.9992291	-430 -16	-12	.9991969	-446 -19	-13	9.0
9.1	-307 -14	-9	.9994434	-320 -14	-9	.9994199	-332 -14	-9	.9993956	-347 -15	-10	.9993702	-360 -16	-10	9.1
9.2	-247 -12	-7	.9995650	-256 -12	-7	.9995466	-267 -12	-7	.9995274	-276 -12	-8	.9995075	-288 -13	-8	9.2
9.3	-196 -9	-5	.9996610	-205 -10	-6	.9996466	-213 -9	-6	.9996316	-222 -10	-8	.9996160	-231 -11	-6	9.3
9.4	-157 -7	-4	.9997365	-163 -8	-5	.9997253	-170 -8	-6	.9997136	-177 -8	-6	.9997014	-184 -9	-6	9.4
9.5	-123 -6	-3	.9997957	-129 -7	-4	.9997870	-154 -7	-4	.9997779	-140 -7	-4	.9997684	-145 -8	-4	9.5
9.6	-99 -6	-3	.9998420	-101 -6	-3	.9998353	-106 -6	-3	.9998282	-110 -6	-3	.9998209	-116 -6	-3	9.6
9.7	-76 -5	-3	.9998782	-81 -4	-3	.9998730	-84 -4	-3	.9998675	-87 -5	-3	.9998618	-90 -5	-3	9.7
9.8	-61 -4	-3	.9999063	-62 -4	-3	.9999023	-60 -4	-3	.9998981	-69 -4	-3	.9998937	-72 -4	-3	9.8
9.9	-43	-3	.9999282	-51	-3	.9999250	-61	-3	.9999218	-54	-3	.9999184	-56	-3	9.9
10.0	-36	-3	.9999450	-38	-3	.9999426	-41	-3	.9999401	-41	-3	.9999375	-43	-3	10.0
10.1	-29	-3	.9999580	-30	-3	.9999561	-30	-3	.9999543	-33	-3	.9999523	-34	-3	10.1
10.2	-22	-3	.9999680	-23	-3	.9999666	-25	-3	.9999652	-26	-3	.9999637	-27	-3	10.2
10.3	-18	-3	.9999757	-19	-3	.9999746	-19	-3	.9999735	-19	-3	.9999724	-20	-3	10.3
10.4	-13	-3	.9999815	-13	-3	.9999807	-14	-3	.9999799	-16	-3	.9999791	-15	-3	10.4
10.5	-10	-3	.9999860	-11	-3	.9999854	-11	-3	.9999848	-12	-3	.9999841	-12	-3	10.5
10.6	-8	-3	.9999894	-8	-3	.9999890	-9	-3	.9999885	-10	-3	.9999880	-9	-3	10.6
10.7	-6	-3	.9999920	-6	-3	.9999917	-6	-3	.9999914	-8	-3	.9999910	-8	-3	10.7
10.8	-5	-3	.9999940	-6	-3	.9999938	-6	-3	.9999935	-6	-3	.9999932	-6	-3	10.8
10.9	-4	-3	.9999955	-4	-3	.9999953	-4	-3	.9999951	-4	-3	.9999949	-4	-3	10.9
11.0		-3	.9999966		-3	.9999965		-3	.9999963		-3	.9999962		-3	11.0
11.1		-3	.9999975		-3	.9999974		-3	.9999973		-3	.9999972		-3	11.1
11.2		-3	.9999981		-3	.9999980		-3	.9999980		-3	.9999979		-3	11.2
11.3		-3	.9999986		-3	.9999985		-3	.9999985		-3	.9999984		-3	11.3
11.4		-3	.9999990		-3	.9999989		-3	.9999989		-3	.9999988		-3	11.4
11.5		-3	.9999992		-3	.9999992		-3	.9999992		-3	.9999991		-3	11.5
11.6		-3	.9999994		-3	.9999994		-3	.9999994		-3	.9999994		-3	11.6
11.7		-3	.9999996		-3	.9999996		-3	.9999995		-3	.9999995		-3	11.7
11.8		-3	.9999997		-3	.9999997		-3	.9999997		-3	.9999996		-3	11.8
11.9		-3	.9999998		-3	.9999998		-3	.9999998		-3	.9999997		-3	11.9
12.0		-3	.9999998		-3	.9999998		-3	.9999998		-3	.9999998		-3	12.0
12.1		-3	.9999999		-3	.9999999		-3	.9999999		-3	.9999999		-3	12.1
12.2		-3	.9999999		-3	.9999999		-3	.9999999		-3	.9999999		-3	12.2
12.3		-3	.9999999		-3	.9999999		-3	.9999999		-3	.9999999		-3	12.3
12.4		-3	.9999999		-3	.9999999		-3	.9999999		-3	.9999999		-3	12.4
12.5		-3	1.0000000		-3	1.0000000		-3	1.0000000		-3	1.0000000		-3	12.5



u	p = 27.0			p = 27.2			p = 27.4			p = 27.6			p = 27.8			p = 28.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	u
1.4	.0000000																1.4
1.5	.0000000			.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+1		.0000000	1.5
1.6	.0000001	+2		.0000001	+1		.0000001	+1		.0000001	+1		.0000001	+1		.0000001	1.6
1.7	.0000003	+4		.0000003	+3		.0000002	+4		.0000002	+3		.0000002	+2		.0000002	1.7
1.8	.0000009	+10		.0000008	+8		.0000007	+7		.0000006	+6		.0000005	+5		.0000004	1.8
1.9	.0000025	+22		.0000022	+18		.0000019	+17		.0000016	+15		.0000014	+13		.0000012	1.9
2.0	.0000063	+49		.0000055	+44		.0000048	+39		.0000042	+34		.0000036	+29		.0000032	2.0
2.1	.0000150	+98		.0000132	+87		.0000116	+78		.0000102	+70		.0000089	+63		.0000078	2.1
2.2	.0000335	+185		.0000296	+168	+4	.0000262	+151	+4	.0000231	+137	+4	.0000204	+123		.0000180	2.2
2.3	.0000705	+358	+9	.0000628	+303	+8	.0000559	+276	+8	.0000497	+250	+7	.0000442	+227	+6	.0000393	2.3
2.4	.0001410	+670	+16	.0001263	+623	+15	.0001132	+477	+13	.0001013	+377	+12	.0000907	+307	+11	.0000811	2.4
2.5	.0002685	+935	+27	.0002421	+896	+25	.0002182	+781	+23	.0001966	+726	+21	.0001770	+688	+19	.0001593	2.5
2.6	.0004893	+1481	+44	.0004438	+1354	+40	.0004023	+1254	+37	.0003645	+1161	+34	.0003301	+1074	+31	.0002989	2.6
2.7	.0008562	+2291	+68	.0007809	+2050	+63	.0007118	+1910	+58	.0006485	+1778	+54	.0005906	+1654	+49	.0005376	2.7
2.8	.0014432	+3189	+102	.0013230	+2901	+94	.0012123	+2802	+87	.0011103	+2624	+81	.0010165	+2464	+75	.0009301	2.8
2.9	.0023491	+4469	+146	.0021642	+4218	+136	.0019930	+3968	+127	.0018345	+3784	+116	.0016878	+3514	+110	.0015521	2.9
3.0	.0037019	+6060	+206	.0034267	+5741	+191	.0031705	+4487	+178	.0029321	+4148	+167	.0027105	+4866	+165	.0025045	3.0
3.1	.0056607	+7988	+273	.0052633	+7686	+267	.0048917	+7219	+243	.0045443	+6867	+228	.0042198	+6627	+216	.0039167	3.1
3.2	.0084158	+10396	+365	.0078565	+9729	+336	.0073348	+9308	+319	.0068432	+8896	+302	.0063818	+8498	+286	.0059490	3.2
3.3	.0121875	+12616	+462	.0114256	+12134	+430	.0107087	+11861	+409	.0100317	+11201	+388	.0093936	+10700	+369	.0087924	3.3
3.4	.0172208	+16244	+557	.0162081	+14731	+533	.0152487	+14225	+509	.0143403	+13725	+486	.0134804	+13259	+464	.0126670	3.4
3.5	.0237785	+17900	+666	.0224627	+17424	+643	.0212112	+16902	+617	.0200214	+16386	+592	.0188908	+15673	+568	.0178170	3.5
3.6	.0321312	+20612	+784	.0304597	+20101	+786	.0288639	+18689	+729	.0273411	+18072	+703	.0258885	+17355	+677	.0245036	3.6
3.7	.0425451	+23101	+896	.0404668	+22628	+868	.0384754	+22145	+841	.0365680	+21884	+814	.0347420	+21174	+787	.0329947	3.7
3.8	.0552691	+25272	+1000	.0527367	+24867	+973	.0503017	+24449	+946	.0479613	+24020	+920	.0457129	+23580	+898	.0435538	3.8
3.9	.0705203	+26900	+1090	.0674933	+26986	+1065	.0645729	+26330	+1041	.0617566	+26009	+1018	.0590418	+25648	+991	.0564261	3.9
4.0	.0884714	+28189	+1162	.0849185	+27968	+1140	.0814797	+27742	+1118	.0781527	+27501	+1096	.0749353	+27289	+1074	.0718252	4.0
4.1	.1092384	+28651	+1209	.1051400	+28584	+1192	.1011607	+28505	+1174	.0972989	+28589	+1162	.0935527	+28248	+1137	.0899202	4.1
4.2	.1328715	+28486	+1231	.1282209	+28617	+1216	.1236922	+28566	+1205	.1192840	+28589	+1196	.1149949	+28286	+1157	.1108236	4.2
4.3	.1693482	+27465	+1222	.1641535	+27650	+1216	.1490803	+27859	+1208	.1441280	+28057	+1206	.1392957	+28196	+1191	.1345824	4.3
4.4	.1885714	+26747	+1165	.1828551	+26120	+1184	.1772573	+26461	+1182	.1717777	+26774	+1179	.1664161	+27057	+1176	.1611720	4.4
4.5	.2203693	+25880	+1118	.2141687	+25840	+1123	.2080804	+24817	+1127	.2021048	+24768	+1130	.1962422	+25191	+1132	.1904929	4.5
4.6	.2545008	+20897	+1024	.2478663	+20926	+1035	.2413352	+21624	+1045	.2349087	+22064	+1054	.2285874	+22604	+1061	.2223724	4.6
4.7	.2906630	+16763	+907	.2836565	+17480	+923	.2767424	+18174	+938	.2699221	+18880	+952	.2631970	+19503	+966	.2565685	4.7
4.8	.3285015	+12856	+772	.3211947	+13817	+792	.3139670	+14387	+811	.3068205	+15139	+830	.2997569	+15876	+847	.2927781	4.8
4.9	.3676235	+8868	+622	.3600946	+9482	+646	.3526303	+10296	+669	.3452328	+11100	+661	.3379044	+11895	+712	.3306472	4.9
5.0	.4076113	+4872	+464	.3999427	+5288	+490	.3923231	+6042	+516	.3847551	+6869	+541	.3772412	+7691	+568	.3697838	5.0
5.1	.4480363	+120	+504	.4403116	+942	+531	.4326201	+1764	+568	.4249643	+2689	+585	.4173471	+3411	+611	.4097710	5.1
5.2	.4884733	+166	+145	.4807747	+132	+173	.4730935	+2409	+201	.4654324	+3227	+228	.4577941	+4111	+255	.4501814	5.2
5.3	.5285127	+274	-6	.5209186	+219	+21	.5133266	+328	+46	.5057395	+407	+76	.4981600	+488	+103	.4905909	5.3
5.4	.5677723	+360	-146	.5603548	+348	-120	.5529254	+408	-94	.5454866	+488	-67	.5380410	+568	-41	.5305913	5.4
5.5	.6059059	+436	-272	.5987297	+417	-243	.5915287	+466	-223	.5843054	+545	-199	.5770622	+624	-174	.5698016	5.5
5.6	.6426108	+509	-381	.6357314	+496	-350	.6288161	+538	-287	.6218671	+624	-315	.6148866	+711	-293	.6078768	5.6
5.7	.6776322	+584	-472	.6710957	+573	-429	.6645138	+616	-354	.6578884	+709	-410	.6512216	+801	-395	.6445154	5.7
5.8	.7107662	+666	-545	.7046082	+657	-489	.6983973	+697	-413	.6921352	+797	-466	.6858235	+897	-479	.6794638	5.8
5.9	.7418594	+747	-699	.7361059	+747	-696	.7302937	+801	-488	.7244243	+914	-569	.7184989	+1031	-646	.7125189	5.9
6.0	.7708084	+831	-686	.7654755	+831	-626	.7600800	+914	-616	.7546230	+1031	-606	.7491056	+1154	-694	.7435287	6.0
6.1	.7975563	+916	-686	.7926513	+916	-648	.7876815	+1031	-641	.7826476	+1154	-638	.7775504	+1284	-626	.7723906	6.1
6.2	.8220889	+1000	-660	.8176111	+1000	-656	.8130677	+1154	-661	.8084591	+1284	-646	.8037859	+1424	-641	.7990487	6.2
6.3	.8444295	+1084	-662	.8403712	+1084	-661	.8362478	+1284	-646	.8320596	+1424	-646	.8278068	+1574	-645	.8234896	6.3
6.4	.8646340	+1168	-634	.8609816	+1168	-634	.8572658	+1424	-634	.8534865	+1624	-634	.8496438	+1784	-633	.8457378	6.4
6.5	.8827846	+1252	-607	.8795198	+1252	-609	.8761941	+1624	-611	.8728073	+1824	-612	.8693592	+2004	-613	.8658499	6.5
6.6	.8989847	+1336	-674	.8960856	+1336	-670	.8931287	+1824	-640	.8901138	+2024	-683	.8870407	+2204	-651	.8839090	6.6
6.7	.9133532	+1420	-634	.9107951	+1420	-640	.9081831	+2024	-640	.9055167	+2224	-648	.9027955	+2404	-655	.9000192	6.7
6.8	.9260195	+1504	-494	.9237764	+1504	-498	.9214834	+2224	-804	.9191400	+2424	-609	.9167457	+2604	-613	.9143002	6.8
6.9	.9371194	+1588	-462	.9351643	+1588	-457	.9331636	+2424	-462	.9311166	+2624	-467	.9290229	+2804	-472	.9268820	6.9
7.0	.9467907	+1672	-408	.9450967	+1672	-414	.9433612	+2624	-419	.9415838	+2824	-425	.9397638	+3004	-480	.9379009	7.0



u	p = 28.0		p = 28.2		p = 28.4		p = 28.6		p = 28.8		p = 29.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
1.4													1.4		
1.5			.0000000			.0000000			.0000000			.0000000			1.5
1.6	+1		.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+1		1.6
1.7	+2		.0000001	+2		.0000001	+2		.0000001	+2		.0000001	+2		1.7
1.8	+3		.0000004	+3		.0000003	+3		.0000002	+3		.0000002	+3		1.8
1.9	+4		.0000010	+4		.0000009	+4		.0000007	+4		.0000006	+4		1.9
2.0	+5		.0000027	+5		.0000024	+5		.0000018	+5		.0000016	+5		2.0
2.1	+6		.0000068	+6		.0000060	+6		.0000046	+6		.0000040	+6		2.1
2.2	+7		.0000159	+7		.0000140	+7		.0000109	+7		.0000096	+7		2.2
2.3	+8		.0000349	+8		.0000310	+8		.0000244	+8		.0000216	+8		2.3
2.4	+9		.0000735	+9		.0000648	+9		.0000517	+9		.0000461	+9		2.4
2.5	+10		.0001433	+10		.0001288	+10		.0001158	+10		.0001040	+10		2.5
2.6	+11		.0002704	+11		.0002446	+11		.0002211	+11		.0001997	+11		2.6
2.7	+12		.0004891	+12		.0004448	+12		.0004044	+12		.0003674	+12		2.7
2.8	+13		.0008507	+13		.0007778	+13		.0007107	+13		.0006492	+13		2.8
2.9	+14		.0014268	+14		.0013109	+14		.0012039	+14		.0011052	+14		2.9
3.0	+15		.0023132	+15		.0021355	+15		.0019706	+15		.0018177	+15		3.0
3.1	+16		.0036339	+16		.0033700	+16		.0031239	+16		.0028946	+16		3.1
3.2	+17		.0055432	+17		.0051629	+17		.0048067	+17		.0044731	+17		3.2
3.3	+18		.0082263	+18		.0076935	+18		.0071922	+18		.0067208	+18		3.3
3.4	+19		.0118978	+19		.0111709	+19		.0104841	+19		.0098356	+19		3.4
3.5	+20		.0167976	+20		.0158302	+20		.0149128	+20		.0140429	+20		3.5
3.6	+21		.0231837	+21		.0219266	+21		.0207296	+21		.0195905	+21		3.6
3.7	+22		.0313235	+22		.0297257	+22		.0281988	+22		.0267404	+22		3.7
3.8	+23		.0414814	+23		.0394932	+23		.0375865	+23		.0357588	+23		3.8
3.9	+24		.0539069	+24		.0514818	+24		.0491483	+24		.0469039	+24		3.9
4.0	+25		.0688203	+25		.0659181	+25		.0631163	+25		.0604128	+25		4.0
4.1	+26		.0863995	+26		.0829885	+26		.0796853	+26		.0764879	+26		4.1
4.2	+27		.1067684	+27		.1028279	+27		.0990004	+27		.0952841	+27		4.2
4.3	+28		.1299872	+28		.1255089	+28		.1211464	+28		.1168985	+28		4.3
4.4	+29		.1560450	+29		.1510346	+29		.1461400	+29		.1413606	+29		4.4
4.5	+30		.1848569	+30		.1793342	+30		.1739248	+30		.1686283	+30		4.5
4.6	+31		.2162641	+31		.2102631	+31		.2043699	+31		.1985849	+31		4.6
4.7	+32		.2500376	+32		.2436055	+32		.2372731	+32		.2310414	+32		4.7
4.8	+33		.2858856	+33		.2790811	+33		.2723660	+33		.2657416	+33		4.8
4.9	+34		.3234634	+34		.3163548	+34		.3093232	+34		.3023706	+34		4.9
5.0	+35		.3623853	+35		.3550480	+35		.3477739	+35		.3405654	+35		5.0
5.1	+36		.4022385	+36		.3947523	+36		.3873146	+36		.3799279	+36		5.1
5.2	+37		.4425969	+37		.4350432	+37		.4275230	+37		.4200387	+37		5.2
5.3	+38		.4830348	+38		.4754943	+38		.4679722	+38		.4604709	+38		5.3
5.4	+39		.5231402	+39		.5156901	+39		.5082437	+39		.5008036	+39		5.4
5.5	+40		.5625260	+40		.5552380	+40		.5479400	+40		.5406345	+40		5.5
5.6	+41		.6008400	+41		.5937785	+41		.5866945	+41		.5795904	+41		5.6
5.7	+42		.6377717	+42		.6309925	+42		.6241800	+42		.6173363	+42		5.7
5.8	+43		.6730580	+43		.6666077	+43		.6601149	+43		.6535812	+43		5.8
5.9	+44		.7064859	+44		.7004013	+44		.6942665	+44		.6880833	+44		5.9
6.0	+45		.7378936	+45		.7322015	+45		.7264536	+45		.7206510	+45		6.0
6.1	+46		.7671692	+46		.7618870	+46		.7565449	+46		.7511440	+46		6.1
6.2	+47		.7942478	+47		.7893841	+47		.7844581	+47		.7794706	+47		6.2
6.3	+48		.8191085	+48		.8146638	+48		.8101559	+48		.8055852	+48		6.3
6.4	+49		.8417687	+49		.8377365	+49		.8336414	+49		.8294837	+49		6.4
6.5	+50		.8622792	+50		.8586471	+50		.8549535	+50		.8511986	+50		6.5
6.6	+51		.8807186	+51		.8774693	+51		.8741609	+51		.8707933	+51		6.6
6.7	+52		.8971875	+52		.8942999	+52		.8913564	+52		.8883564	+52		6.7
6.8	+53		.9118029	+53		.9092534	+53		.9066514	+53		.9039965	+53		6.8
6.9	+54		.9246933	+54		.9224565	+54		.9201710	+54		.9178364	+54		6.9
7.0	+55		.9359944	+55		.9340437	+55		.9320486	+55		.9300083	+55		7.0



$u$	$p = 27.0$			$p = 27.2$			$p = 27.4$			$p = 27.6$			$p = 27.8$			$p = 28.0$	
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$u$
7.0	.9467907	-19916 -89	-408	.9450967	-13183 -27	-414	.9433612	-13447 -28	-419	.9415833	-13714 -15	-425	.9397638	-13978 -74	-430	.9379009	7.0
7.1	.9551704	-11685 -67	-366	.9537108	-11639 -67	-372	.9522141	-12096 -62	-377	.9506796	-12353 -61	-383	.9491069	-12614 -40	-388	.9474952	7.1
7.2	.9623916	-10311 -70	-326	.9611410	-10522 -72	-331	.9598574	-10797 -66	-336	.9585401	-11043 -62	-342	.9571886	-11299 -62	-347	.9558023	7.2
7.3	.9685817	-9111 -83	-287	.9675160	-9337 -81	-299	.9664210	-9564 -82	-296	.9652963	-9786 -75	-303	.9641413	-10028 -76	-308	.9629555	7.3
7.4	.9738607	-7994 -81	-251	.9729573	-8203 -86	-236	.9720282	-8413 -89	-261	.9710730	-8626 -90	-266	.9700912	-8842 -89	-271	.9690823	7.4
7.5	.9783403	-6968 -98	-216	.9775783	-7157 -82	-223	.9767941	-7351 -91	-227	.9759871	-7547 -91	-232	.9751569	-7745 -91	-237	.9743030	7.5
7.6	.9821231	-6035 -98	-188	.9814836	-6206 -84	-192	.9808249	-6350 -94	-197	.9801465	-6506 -93	-201	.9794481	-6737 -93	-205	.9787291	7.6
7.7	.9853024	-5196 -92	-161	.9847683	-5346 -82	-165	.9842177	-5506 -93	-164	.9836503	-5663 -93	-173	.9830656	-5824 -88	-177	.9824632	7.7
7.8	.9879621	-4445 -87	-137	.9875182	-4582 -88	-141	.9870602	-4720 -89	-150	.9865878	-4860 -90	-147	.9861007	-5004 -90	-151	.9855984	7.8
7.9	.9901773	-3785 -80	-116	.9898099	-3901 -82	-119	.9894307	-4023 -83	-122	.9890393	-4147 -84	-123	.9886354	-4275 -85	-126	.9882186	7.9
8.0	.9920140	-3201 -74	-98	.9917115	-3306 -76	-100	.9913989	-3411 -77	-103	.9910761	-3520 -79	-106	.9907426	-3629 -80	-108	.9903984	8.0
8.1	.9935306	-2697 -68	-82	.9932825	-2786 -70	-84	.9930260	-2878 -71	-86	.9927609	-2971 -73	-88	.9924869	-3068 -74	-91	.9922038	8.1
8.2	.9947775	-2258 -62	-68	.9945749	-2334 -64	-70	.9943653	-2412 -65	-72	.9941486	-2494 -67	-74	.9939244	-2576 -68	-76	.9936927	8.2
8.3	.9957986	-1889 -56	-56	.9956339	-1948 -58	-58	.9954634	-2016 -59	-60	.9952869	-2084 -61	-61	.9951043	-2153 -62	-63	.9949154	8.3
8.4	.9966315	-1562 -49	-46	.9964981	-1617 -51	-48	.9963599	-1678 -52	-48	.9962168	-1732 -54	-51	.9960687	-1783 -55	-52	.9959154	8.4
8.5	.9973082	-1290 -43	-38	.9972006	-1336 -44	-38	.9970891	-1395 -45	-40	.9969735	-1433 -46	-42	.9968538	-1483 -45	-43	.9967299	8.5
8.6	.9978559	-1069 -37	-31	.9977695	-1109 -38	-32	.9976798	-1139 -39	-33	.9975869	-1161 -40	-34	.9974906	-1181 -42	-35	.9973908	8.6
8.7	.9982976	-897 -31	-26	.9982284	-899 -33	-26	.9981566	-933 -34	-27	.9980822	-965 -35	-28	.9980050	-985 -36	-28	.9979250	8.7
8.8	.9986526	-768 -25	-20	.9985974	-733 -25	-21	.9985401	-762 -25	-22	.9984807	-791 -30	-22	.9984190	-819 -31	-23	.9983551	8.8
8.9	.9989368	-673 -24	-16	.9988929	-596 -24	-17	.9988474	-619 -25	-17	.9988001	-642 -25	-18	.9987511	-667 -26	-18	.9987002	8.9
9.0	.9991635	-583 -20	-13	.9991288	-482 -20	-13	.9990928	-601 -21	-14	.9990553	-629 -21	-14	.9990165	-641 -22	-16	.9989761	9.0
9.1	.9993439	-493 -16	-10	.9993165	-389 -17	-11	.9992881	-405 -17	-11	.9992585	-420 -18	-12	.9992278	-435 -18	-12	.9991959	9.1
9.2	.9994868	-409 -13	-8	.9994653	-312 -14	-9	.9994429	-323 -15	-9	.9994197	-338 -15	-9	.9993955	-350 -15	-9	.9993704	9.2
9.3	.9995998	-341 -11	-6	.9995829	-249 -12	-7	.9995654	-249 -12	-7	.9995471	-269 -13	-7	.9995282	-289 -13	-7	.9995085	9.3
9.4	.9996887	-290 -9	-6	.9996756	-200 -10	-5	.9996619	-207 -10	-6	.9996476	-216 -11	-6	.9996328	-224 -11	-6	.9996174	9.4
9.5	.9997586	-252 -8	-4	.9997483	-167 -9	-4	.9997377	-163 -9	-4	.9997266	-172 -9	-4	.9997150	-178 -9	-5	.9997030	9.5
9.6	.9998133	-221 -7	-4	.9998053	-126 -8	-4	.9997970	-129 -8	-4	.9997884	-136 -7	-4	.9997794	-141 -7	-4	.9997701	9.6
9.7	.9998559	-194 -5	-3	.9998498	-98 -6	-3	.9998434	-104 -6	-3	.9998367	-107 -6	-3	.9998297	-111 -6	-3	.9998225	9.7
9.8	.9998891	-174 -4	-3	.9998844	-77 -4	-3	.9998794	-79 -6	-3	.9998743	-84 -6	-3	.9998689	-87 -6	-3	.9998634	9.8
9.9	.9999149	-159 -4	-3	.9999113	-61 -4	-3	.9999075	-63 -4	-3	.9999035	-66 -4	-3	.9998994	-70 -4	-3	.9998951	9.9
10.0	.9999348	-143	-3	.9999321	-48	-3	.9999291	-48	-3	.9999261	-52	-3	.9999229	-53	-3	.9999196	10.0
10.1	.9999502	-133	-3	.9999481	-36	-3	.9999459	-39	-3	.9999435	-39	-3	.9999411	-41	-3	.9999386	10.1
10.2	.9999621	-123	-3	.9999605	-30	-3	.9999588	-30	-3	.9999570	-32	-3	.9999552	-34	-3	.9999532	10.2
10.3	.9999712	-113	-3	.9999699	-21	-3	.9999687	-24	-3	.9999673	-24	-3	.9999659	-25	-3	.9999644	10.3
10.4	.9999781	-103	-3	.9999772	-17	-3	.9999762	-17	-3	.9999752	-19	-3	.9999741	-19	-3	.9999730	10.4
10.5	.9999835	-93	-3	.9999828	-14	-3	.9999820	-14	-3	.9999812	-14	-3	.9999804	-15	-3	.9999796	10.5
10.6	.9999875	-83	-3	.9999870	-10	-3	.9999864	-11	-3	.9999858	-11	-3	.9999852	-12	-3	.9999846	10.6
10.7	.9999906	-73	-3	.9999902	-8	-3	.9999898	-9	-3	.9999893	-8	-3	.9999889	-10	-3	.9999884	10.7
10.8	.9999929	-63	-3	.9999926	-6	-3	.9999923	-7	-3	.9999920	-7	-3	.9999916	-8	-3	.9999913	10.8
10.9	.9999947	-53	-3	.9999945	-3	-3	.9999942	-3	-3	.9999940	-6	-3	.9999937	-7	-3	.9999935	10.9
11.0	.9999960	-43	-3	.9999959	-4	-3	.9999957	-4	-3	.9999955	-4	-3	.9999953	-6	-3	.9999951	11.0
11.1	.9999970	-33	-3	.9999969	-3	-3	.9999968	-3	-3	.9999966	-3	-3	.9999965	-4	-3	.9999964	11.1
11.2	.9999978	-23	-3	.9999977	-3	-3	.9999976	-3	-3	.9999975	-3	-3	.9999974	-3	-3	.9999973	11.2
11.3	.9999984	-13	-3	.9999983	-3	-3	.9999982	-3	-3	.9999981	-3	-3	.9999981	-3	-3	.9999980	11.3
11.4	.9999988	-13	-3	.9999987	-3	-3	.9999987	-3	-3	.9999986	-3	-3	.9999986	-3	-3	.9999985	11.4
11.5	.9999991	-13	-3	.9999991	-3	-3	.9999990	-3	-3	.9999990	-3	-3	.9999989	-3	-3	.9999989	11.5
11.6	.9999993	-13	-3	.9999993	-3	-3	.9999993	-3	-3	.9999992	-3	-3	.9999992	-3	-3	.9999992	11.6
11.7	.9999995	-13	-3	.9999995	-3	-3	.9999995	-3	-3	.9999994	-3	-3	.9999994	-3	-3	.9999994	11.7
11.8	.9999996	-13	-3	.9999996	-3	-3	.9999996	-3	-3	.9999996	-3	-3	.9999996	-3	-3	.9999996	11.8
11.9	.9999997	-13	-3	.9999997	-3	-3	.9999997	-3	-3	.9999997	-3	-3	.9999997	-3	-3	.9999997	11.9
12.0	.9999998	-13	-3	.9999998	-3	-3	.9999998	-3	-3	.9999998	-3	-3	.9999998	-3	-3	.9999998	12.0
12.1	.9999999	-13	-3	.9999999	-3	-3	.9999998	-3	-3	.9999998	-3	-3	.9999998	-3	-3	.9999998	12.1
12.2	.9999999	-13	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	12.2
12.3	.9999999	-13	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	12.3
12.4	.9999999	-13	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	-3	-3	.9999999	12.4
12.5	1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			.9999999	12.5
12.6																1.0000000	12.6



u	p = 28.0		p = 28.2		p = 28.4		p = 28.6		p = 28.8		p = 29.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
7.0	-14248 -9	-436	.9359944	-14519 -1	-441	.9340437	-14776 -2	-446	.9320486	-15043 +11	-451	.9300083	-15306 +13	-456	7.0
7.1	-12572 -41	-594	.9458442	-13132 -40	-599	.9441533	-13395 -28	-605	.9424219	-13655 -29	-610	.9406496	-13919 -17	-615	7.1
7.2	-11639 -53	-553	.9543808	-11791 -80	-558	.9529234	-12042 -51	-564	.9514297	-12296 -45	-569	.9498990	-12549 -46	-574	7.2
7.3	-10264 -72	-513	.9617383	-10590 -95	-519	.9604893	-10740 -69	-524	.9592079	-10982 -85	-529	.9578935	-11225 -61	-534	7.3
7.4	-9061 -88	-276	.9680458	-9283 -84	-281	.9669812	-8907 -84	-286	.9658879	-8573 -82	-291	.9647655	-8292 -79	-296	7.4
7.5	-7948 -90	-241	.9734250	-8160 -89	-246	.9725224	-8398 -86	-251	.9715946	-8068 -88	-256	.9706413	-7779 -87	-261	7.5
7.6	-6920 -92	-210	.9779892	-7197 -92	-214	.9772278	-7294 -92	-218	.9764447	-7487 -92	-223	.9756392	-7661 -92	-227	7.6
7.7	-5999 -95	-181	.9818427	-6165 -95	-185	.9812038	-6226 -95	-189	.9805461	-6500 -95	-193	.9798690	-6678 -95	-197	7.7
7.8	-5150 -91	-155	.9850807	-5300 -92	-153	.9845472	-5433 -93	-162	.9839975	-5698 -93	-166	.9834312	-5767 -93	-169	7.8
7.9	-4404 -87	-131	.9877887	-4337 -86	-135	.9873453	-4672 -89	-138	.9868881	-4899 -90	-141	.9864167	-4949 -91	-145	7.9
8.0	-3744 -81	-111	.9900430	-3859 -83	-114	.9896762	-3977 -84	-117	.9892978	-4100 -85	-120	.9889073	-4223 -86	-123	8.0
8.1	-3155 -76	-93	.9919114	-3266 -77	-96	.9916094	-3370 -78	-99	.9912975	-3474 -79	-101	.9909756	-3584 -80	-104	8.1
8.2	-2692 -70	-75	.9934532	-2750 -71	-80	.9932056	-2838 -73	-82	.9929498	-2931 -74	-85	.9926855	-3028 -75	-87	8.2
8.3	-2227 -64	-68	.9947200	-2301 -65	-67	.9945180	-2379 -68	-69	.9943090	-2466 -67	-71	.9940931	-2559 -69	-72	8.3
8.4	-1855 -57	-64	.9957567	-1919 -58	-65	.9955925	-1984 -59	-67	.9954226	-2051 -60	-68	.9952468	-2115 -61	-69	8.4
8.5	-1536 -49	-44	.9966015	-1569 -60	-45	.9964686	-1644 -61	-47	.9963311	-1708 -62	-48	.9961887	-1782 -63	-50	8.5
8.6	-1267 -43	-36	.9972874	-1313 -44	-37	.9971803	-1360 -45	-38	.9970693	-1406 -46	-39	.9969544	-1456 -47	-41	8.6
8.7	-1041 -38	-29	.9978420	-1078 -39	-30	.9977560	-1117 -40	-31	.9976669	-1158 -41	-32	.9975745	-1193 -42	-33	8.7
8.8	-860 -32	-24	.9982888	-882 -33	-25	.9982200	-914 -34	-25	.9981487	-947 -35	-26	.9980748	-985 -36	-27	8.8
8.9	-692 -27	-19	.9986474	-715 -28	-20	.9985926	-745 -29	-20	.9985358	-779 -30	-21	.9984768	-821 -30	-22	8.9
9.0	-561 -22	-16	.9989342	-582 -23	-16	.9988907	-604 -24	-16	.9988456	-627 -25	-17	.9987987	-660 -26	-18	9.0
9.1	-453 -19	-12	.9991628	-471 -20	-13	.9991284	-489 -21	-13	.9990927	-507 -21	-14	.9990556	-527 -22	-14	9.1
9.2	-364 -16	-10	.9993443	-373 -16	-10	.9993172	-393 -17	-11	.9992891	-409 -18	-11	.9992598	-424 -18	-11	9.2
9.3	-292 -13	-8	.9994880	-303 -14	-8	.9994667	-315 -14	-8	.9994446	-327 -15	-9	.9994216	-340 -16	-9	9.3
9.4	-233 -11	-6	.9996014	-243 -12	-6	.9995847	-262 -13	-7	.9995674	-262 -12	-7	.9995494	-272 -13	-7	9.4
9.5	-185 -9	-5	.9996905	-192 -9	-5	.9996775	-200 -10	-5	.9996640	-208 -10	-5	.9996500	-217 -10	-6	9.5
9.6	-147 -8	-4	.9997604	-153 -8	-4	.9997503	-160 -8	-4	.9997398	-168 -8	-4	.9997289	-179 -9	-4	9.6
9.7	-115 -7	-4	.9998150	-120 -7	-4	.9998072	-126 -7	-4	.9997990	-130 -7	-4	.9997906	-136 -8	-4	9.7
9.8	-92 -5	-3	.9998576	-96 -5	-3	.9998515	-96 -5	-3	.9998452	-105 -6	-3	.9998387	-107 -6	-3	9.8
9.9	-72 -4	-3	.9998906	-74 -4	-3	.9998860	-79 -4	-3	.9998811	-81 -5	-3	.9998761	-85 -5	-3	9.9
10.0	-55 -4	-3	.9999162	-58 -4	-3	.9999126	-59 -4	-3	.9999089	-63 -4	-3	.9999050	-65 -4	-3	10.0
10.1	-44 -4	-3	.9999360	-46 -4	-3	.9999333	-49 -4	-3	.9999304	-49 -4	-3	.9999274	-51 -4	-3	10.1
10.2	-34	-3	.9999512	-35	-3	.9999491	-36	-3	.9999470	-39	-3	.9999447	-41	-3	10.2
10.3	-26	-3	.9999629	-27	-3	.9999613	-28	-3	.9999597	-50	-3	.9999579	-30	-3	10.3
10.4	-20	-3	.9999719	-22	-3	.9999707	-23	-3	.9999694	-22	-3	.9999681	-24	-3	10.4
10.5	-16	-3	.9999787	-18	-3	.9999778	-19	-3	.9999769	-19	-3	.9999759	-19	-3	10.5
10.6	-12	-3	.9999839	-12	-3	.9999833	-14	-3	.9999825	-13	-3	.9999818	-14	-3	10.6
10.7	-9	-3	.9999879	-10	-3	.9999874	-10	-3	.9999868	-10	-3	.9999863	-11	-3	10.7
10.8	-7	-3	.9999909	-7	-3	.9999905	-7	-3	.9999901	-8	-3	.9999897	-8	-3	10.8
10.9	-6	-3	.9999932	-6	-3	.9999929	-6	-3	.9999926	-6	-3	.9999923	-7	-3	10.9
11.0	-5	-3	.9999949	-4	-3	.9999947	-5	-3	.9999945	-3	-3	.9999942	-6	-3	11.0
11.1	-4	-3	.9999962	-4	-3	.9999960	-4	-3	.9999959	-4	-3	.9999957	-4	-3	11.1
11.2		-3	.9999972		-3	.9999970		-3	.9999969		-3	.9999968		-3	11.2
11.3		-3	.9999979		-3	.9999978		-3	.9999977		-3	.9999976		-3	11.3
11.4		-3	.9999984		-3	.9999984		-3	.9999983		-3	.9999982		-3	11.4
11.5		-3	.9999988		-3	.9999988		-3	.9999987		-3	.9999987		-3	11.5
11.6		-3	.9999991		-3	.9999991		-3	.9999991		-3	.9999990		-3	11.6
11.7		-3	.9999994		-3	.9999993		-3	.9999993		-3	.9999993		-3	11.7
11.8		-3	.9999995		-3	.9999995		-3	.9999995		-3	.9999995		-3	11.8
11.9		-3	.9999997		-3	.9999996		-3	.9999996		-3	.9999996		-3	11.9
12.0		-3	.9999998		-3	.9999997		-3	.9999997		-3	.9999997		-3	12.0
12.1		-3	.9999998		-3	.9999998		-3	.9999998		-3	.9999998		-3	12.1
12.2		-3	.9999999		-3	.9999999		-3	.9999999		-3	.9999998		-3	12.2
12.3		-3	.9999999		-3	.9999999		-3	.9999999		-3	.9999999		-3	12.3
12.4		-3	.9999999		-3	.9999999		-3	.9999999		-3	.9999999		-3	12.4
12.5		-3	.9999999		-3	.9999999		-3	.9999999		-3	.9999999		-3	12.5
12.6		-3	1.0000000		-3	1.0000000		-3	1.0000000		-3	1.0000000		-3	12.6



u	p = 29.0		p = 29.2		p = 29.4		p = 29.6		p = 29.8		p = 30.0	
	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	u
1.5	.0000000		.0000000		.0000000		.0000000		.0000000		.0000000	1.5
1.6	.0000000		.0000000		.0000000		.0000000		.0000000		.0000000	1.6
1.7	.0000001	+1	.0000000	+1	.0000000	+1	.0000000	+1	.0000000	0	.0000000	1.7
1.8	.0000002	+2	.0000002	+2	.0000001	+2	.0000001	+2	.0000001	+1	.0000001	1.8
1.9	.0000006	+5	.0000005	+5	.0000004	+5	.0000004	+5	.0000003	+4	.0000003	1.9
2.0	.0000016	+14	.0000014	+12	.0000012	+10	.0000010	+10	.0000009	+8	.0000008	2.0
2.1	.0000040	+32	.0000035	+28	.0000030	+26	.0000027	+21	.0000023	+20	.0000020	2.1
2.2	.0000096	+64	.0000084	+58	.0000074	+52	.0000065	+47	.0000057	+42	.0000050	2.2
2.3	.0000216	+128	.0000191	+113	.0000170	+100	.0000150	+91	.0000133	+82	.0000117	2.3
2.4	.0000461	+256	.0000411	+207	.0000366	+190	.0000326	+172	.0000291	+155	.0000259	2.4
2.5	.0000934	+512	.0000838	+369	.0000752	+311	.0000674	+261	.0000604	+218	.0000541	2.5
2.6	.0001804	+1024	.0001628	+736	.0001469	+622	.0001325	+514	.0001195	+421	.0001076	2.6
2.7	.0003336	+2048	.0003029	+1472	.0002748	+1244	.0002492	+1028	.0002259	+836	.0002047	2.7
2.8	.0005927	+4096	.0005409	+2944	.0004934	+2496	.0004498	+2064	.0004100	+1656	.0003735	2.8
2.9	.0010141	+8192	.0009302	+5888	.0008528	+4992	.0007815	+4176	.0007158	+3432	.0006554	2.9
3.0	.0016759	+16384	.0015445	+11776	.0014228	+9984	.0013101	+8256	.0012058	+6816	.0011094	3.0
3.1	.0026810	+32768	.0024821	+23552	.0022970	+19968	.0021248	+16608	.0019647	+13584	.0018159	3.1
3.2	.0041610	+65536	.0038691	+47104	.0035962	+39936	.0033411	+32832	.0031029	+26880	.0028805	3.2
3.3	.0062778	+131072	.0058616	+94208	.0054708	+79872	.0051040	+66528	.0047598	+54432	.0044371	3.3
3.4	.0092236	+262144	.0086462	+188416	.0081017	+159744	.0075885	+135648	.0071051	+114912	.0066498	3.4
3.5	.0132187	+524288	.0124380	+376832	.0116988	+319584	.0109994	+271488	.0103377	+231840	.0097122	3.5
3.6	.0185069	+1048576	.0174766	+753664	.0164974	+639168	.0155671	+544320	.0146838	+465600	.0138454	3.6
3.7	.0253479	+2097152	.0240190	+1507328	.0227514	+1278336	.0215426	+1093728	.0203906	+937680	.0192932	3.7
3.8	.0340076	+4194304	.0323304	+3014656	.0307248	+2556672	.0291884	+2167680	.0277189	+1843200	.0263139	3.8
3.9	.0447461	+8388608	.0426724	+6029312	.0406805	+5113344	.0387680	+4335360	.0369323	+3676800	.0351713	3.9
4.0	.0578051	+16777216	.0552908	+12058624	.0528678	+10226688	.0505336	+8611200	.0482859	+7219200	.0461225	4.0
4.1	.0733940	+33554432	.0704017	+24117248	.0675088	+20453376	.0647131	+17324160	.0620125	+14784000	.0594079	4.1
4.2	.0916775	+67108864	.0881785	+48234496	.0847856	+40906752	.0814967	+34437120	.0783100	+29568000	.0752235	4.2
4.3	.1127637	+134217728	.1087408	+96468992	.1048282	+81813504	.1010246	+69024000	.0973283	+58432000	.0937378	4.3
4.4	.1366956	+268435456	.1321439	+192937984	.1277047	+163627008	.1233768	+139372800	.1191592	+119184000	.1150506	4.4
4.5	.1634446	+536870912	.1583731	+385875968	.1534136	+327254016	.1485652	+281116800	.1438276	+239904000	.1391998	4.5
4.6	.1929082	+1073741824	.1873400	+771751936	.1818804	+654508032	.1765292	+561984000	.1712865	+480960000	.1661518	4.6
4.7	.2249110	+2147483648	.2188827	+1543503872	.2129570	+1309016064	.2071344	+1126752000	.2014152	+961920000	.1957999	4.7
4.8	.2592092	+4294967296	.2527700	+3087007744	.2464250	+2618032128	.2401752	+2253456000	.2340215	+1923840000	.2279646	4.8
4.9	.2954985	+8589934592	.2887086	+6174015488	.2820023	+5236064256	.2753812	+4506912000	.2688465	+3847680000	.2623994	4.9
5.0	.3334243	+17179869184	.3263527	+12348030976	.3193525	+10472128512	.3124255	+9011712000	.3055733	+7719360000	.2987977	5.0
5.1	.3725946	+34359738368	.3653167	+24696061952	.3580967	+20944257024	.3509364	+18029440000	.3438381	+15519360000	.3368035	5.1
5.2	.4125930	+68719476736	.4051881	+49392123904	.3978265	+41888514048	.3905105	+36058880000	.3832423	+30918720000	.3760243	5.2
5.3	.4529931	+137438953472	.4455414	+98784247808	.4381182	+83777028096	.4307259	+72117760000	.4233671	+62037440000	.4160440	5.3
5.4	.4937323	+274877906944	.4859525	+197568495616	.4785465	+167554056192	.4711570	+144336000000	.4637863	+123840000000	.4564370	5.4
5.5	.5333239	+549755813888	.5260108	+395136991232	.5186976	+335108112384	.5113868	+288672000000	.5040808	+247680000000	.4967820	5.5
5.6	.5724686	+1099511627776	.5653313	+790273982464	.5581809	+670216244768	.5510197	+576336000000	.5438501	+492960000000	.5366745	5.6
5.7	.6104634	+2199023255552	.6035635	+1580547964928	.5966388	+1340432489536	.5896913	+1152672000000	.5827234	+985920000000	.5757372	5.7
5.8	.6470087	+4398046511104	.6403992	+3161095929856	.6337546	+2680864979072	.6270769	+2291344000000	.6203680	+1951680000000	.6136299	5.8
5.9	.6818530	+8796093022208	.6755775	+6322191859712	.6692583	+5361729958144	.6628971	+4582688000000	.6564957	+3927360000000	.6500558	5.9
6.0	.7147953	+17592186044416	.7088876	+12644383719424	.7029294	+10723459116288	.6969221	+9196800000000	.6908672	+7848000000000	.6847661	6.0
6.1	.7456852	+35184372088832	.7401697	+25288767438848	.7345985	+21446918232576	.7289728	+18393600000000	.7232938	+15696000000000	.7175626	6.1
6.2	.7744223	+70368744177664	.7693140	+50577534877696	.7641465	+42893836465152	.7589208	+36787200000000	.7536376	+31392000000000	.7482980	6.2
6.3	.8009523	+140737488355328	.7962577	+101155069755392	.7915020	+85787672930304	.7866858	+72652800000000	.7818096	+61968000000000	.7768743	6.3
6.4	.8252637	+281474976710656	.8209816	+202310139510784	.8166378	+171575345860608	.8122327	+147104000000000	.8077666	+125856000000000	.8032400	6.4
6.5	.8473824	+562949953421312	.8435049	+404620279021568	.8395663	+343150691721216	.8355668	+292720000000000	.8315065	+249600000000000	.8273857	6.5
6.6	.8673663	+1125899906842624	.8638799	+809240558043136	.8603340	+686301383442432	.8567287	+584640000000000	.8530639	+497760000000000	.8493396	6.6
6.7	.8852999	+2251799813685248	.8821866	+1618481116086272	.8791622	+1372602766884864	.8757887	+1171680000000000	.8725039	+994080000000000	.8691616	6.7
6.8	.9012884	+4503599627370496	.8985266	+3236962232172544	.8957109	+2745205533769728	.8928411	+2343360000000000	.8899167	+1985760000000000	.8869377	6.8
6.9	.9154522	+9007199254740992	.9130181	+6473924464345088	.9105337	+5490411067539456	.9079985	+4686720000000000	.9054121	+3988800000000000	.9027744	6.9
7.0	.9279224	+18014398509481984	.9257905	+12947649128970176	.9236121	+10980822135179104	.9213867	+9316800000000000	.9191140	+7848000000000000	.9167934	7.0
7.1	.9388357	+36028797018963968	.9369799	+25895298257940352	.9350815	+21961644270358208	.9331402	+18633600000000000	.9311553	+15696000000000000	.9291266	7.1
7.2	.9483310	+72057594037927936	.9467250	+51790596515880704	.9450805	+43923288540716416	.9433971	+37368000000000000	.9416742	+31392000000000000	.9399113	7.2
7.3	.9565457	+144115188075855872	.9551639	+103581193031761408	.9537477	+87846577081432832	.9522964	+74640000000000000	.9508096	+63072000000000000	.9492868	7.3
7.4	.9636135	+288230376151711744	.9624313	+207162386063522816	.9612184	+175693154162865664	.9599744	+149120000000000000	.9586987	+125856000000000000	.9573909	7.4
7.5	.9696619	+576460752303423488	.9686560	+414324772127045632	.9676230	+351386308325731328	.9665626	+298560000000000000	.9654741	+249600000000000000	.9643571	7.5



u	p = 30.0		p = 30.2		p = 30.4		p = 30.6		p = 30.8		p = 31.0		u	
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^0$ $\delta_u^2$ $\delta_u^4$	$\delta_p^0$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^0$ $\delta_u^2$ $\delta_u^4$	$\delta_p^0$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^0$ $\delta_u^2$ $\delta_u^4$	$\delta_p^0$ $\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^0$ $\delta_u^2$ $\delta_u^4$
1.5													1.5	
1.6			·0000000			·0000000			·0000000			·0000000		1.6
1.7			·0000000	0		·0000000	0		·0000000	0		·0000000	0	1.7
1.8	+1		·0000001	+1		·0000001	+1		·0000001	+1		·0000001	+1	1.8
1.9	+3		·0000002	+3		·0000002	+3		·0000002	+3		·0000002	+3	1.9
2.0	+7		·0000007	+7		·0000006	+6		·0000005	+5		·0000004	+4	2.0
2.1	+18		·0000018	+18		·0000015	+15		·0000013	+13		·0000010	+10	2.1
2.2	+37		·0000044	+37		·0000039	+35		·0000034	+29		·0000026	+21	2.2
2.3	+76		·0000104	+76		·0000092	+60		·0000081	+46		·0000063	+33	2.3
2.4	+140	+4	·0000230	+140	+4	·0000205	+115	+4	·0000182	+105	+4	·0000144	+85	2.4
2.5	+253	+6	·0000484	+253	+6	·0000433	+212	+6	·0000388	+191	+6	·0000310	+169	2.5
2.6	+438	+11	·0000969	+438	+11	·0000873	+366	+11	·0000785	+337	+11	·0000635	+292	2.6
2.7	+717	+19	·0001854	+717	+19	·0001679	+610	+19	·0001519	+563	+19	·0001242	+479	2.7
2.8	+1131	+31	·0003401	+1131	+31	·0003095	+876	+31	·0002816	+805	+31	·0002328	+778	2.8
2.9	+1771	+43	·0005998	+1771	+43	·0005487	+1297	+43	·0005018	+1199	+43	·0004190	+1215	2.9
3.0	+2626	+73	·0010202	+2626	+73	·0009378	+2294	+73	·0008618	+2054	+73	·0007267	+1928	3.0
3.1	+3881	+106	·0016776	+3881	+106	·0015493	+3286	+106	·0014302	+3002	+106	·0012172	+2861	3.1
3.2	+5620	+149	·0026729	+5620	+149	·0024793	+4420	+149	·0022988	+4165	+149	·0019738	+3748	3.2
3.3	+8081	+204	·0041347	+8081	+204	·0038513	+6245	+204	·0035859	+5659	+204	·0031050	+5214	3.3
3.4	+11497	+267	·0062213	+11497	+267	·0058181	+8776	+267	·0054389	+7438	+267	·0047476	+6777	3.4
3.5	+16798	+344	·0091210	+16798	+344	·0085625	+12244	+344	·0080352	+10922	+344	·0070679	+9734	3.5
3.6	+24316	+430	·0130500	+24316	+430	·0122957	+17244	+430	·0115807	+15180	+430	·0102616	+13966	3.6
3.7	+34365	+524	·0182481	+34365	+524	·0172533	+24178	+524	·0163068	+21499	+524	·0145509	+19398	3.7
3.8	+47867	+623	·0249712	+47867	+623	·0236885	+32941	+623	·0224638	+29119	+623	·0201795	+26999	3.8
3.9	+65938	+723	·0334826	+65938	+723	·0318638	+43900	+723	·0303127	+39526	+723	·0274050	+36824	3.9
4.0	+90231	+824	·0440409	+90231	+824	·0420391	+57444	+824	·0401146	+52215	+824	·0364889	+49203	4.0
4.1	+122362	+908	·0568880	+122362	+908	·0544598	+75804	+908	·0521180	+70428	+908	·0476849	+66255	4.1
4.2	+166397	+983	·0722354	+166397	+983	·0693436	+101944	+983	·0665462	+93444	+983	·0612264	+83596	4.2
4.3	+225985	+1041	·0902514	+225985	+1041	·0868674	+136444	+1041	·0835842	+124990	+1041	·0773129	+112954	4.3
4.4	+306649	+1076	·1104999	+306649	+1076	·1071556	+182900	+1076	·1033666	+168107	+1076	·0960812	+152957	4.4
4.5	+415028	+1091	·1364811	+415028	+1091	·1302707	+243107	+1091	·1259675	+224963	+1091	·1217707	+202271	4.5
4.6	+556961	+1078	·1611250	+556961	+1078	·1562057	+319409	+1078	·1513933	+297566	+1078	·1420870	+27278	4.6
4.7	+747828	+1040	·1902884	+747828	+1040	·1848810	+415729	+1040	·1795777	+389104	+1040	·1692828	+36732	4.7
4.8	+1006701	+975	·2220053	+1006701	+975	·2161441	+536985	+975	·2103815	+490990	+975	·1991538	+48109	4.8
4.9	+1396335	+888	·2560412	+1396335	+888	·2497728	+690808	+888	·2435953	+64917	+888	·2315161	+64093	4.9
5.0	+186075	+781	·2921001	+186075	+781	·2854821	+890909	+781	·2789450	+82222	+781	·2724902	+76335	5.0
5.1	+251510	+665	·3298348	+251510	+665	·3229336	+1162193	+665	·3161017	+107109	+665	·3093408	+101728	5.1
5.2	+336989	+523	·3688586	+336989	+523	·3617472	+152564	+523	·3546922	+139683	+523	·3476955	+12921	5.2
5.3	+447373	+381	·4087590	+447373	+381	·4015144	+199428	+381	·3943124	+18065	+381	·3871552	+16660	5.3
5.4	+596168	+233	·4491114	+596168	+233	·4418120	+266828	+233	·4345411	+24308	+233	·4273009	+20111	5.4
5.5	+796255	+97	·4894930	+796255	+97	·4822160	+356144	+97	·4749534	+32178	+97	·4677077	+26681	5.5
5.6	+1063871	-37	·5294951	+1063871	-37	·5223143	+463909	-37	·5151345	+42783	-37	·5079580	+35008	5.6
5.7	+1417000	-161	·5687349	+1417000	-161	·5617188	+599117	-161	·5546909	+56394	-161	·5476537	+45721	5.7
5.8	+1874988	-271	·6068647	+1874988	-271	·6000744	+756231	-271	·5932611	+71801	-271	·5864267	+61443	5.8
5.9	+2466006	-387	·6435792	+2466006	-387	·6370677	+940931	-387	·6305232	+86392	-387	·6239475	+70487	5.9
6.0	+321138	-448	·6786204	+321138	-448	·6724317	+116407	-448	·6662014	+107598	-448	·6599314	+92392	6.0
6.1	+416303	-609	·7117806	+416303	-609	·7059490	+151828	-609	·7000691	+14069	-609	·6941424	+12078	6.1
6.2	+534993	-553	·7429030	+534993	-553	·7374535	+199476	-553	·7319507	+17547	-553	·7263956	+14451	6.2
6.3	+684421	-385	·7718805	+684421	-385	·7668291	+264441	-385	·7617207	+23560	-385	·7565563	+17531	6.3
6.4	+874876	-600	·7986534	+874876	-600	·7940073	+349303	-600	·7893023	+30405	-600	·7845390	+22184	6.4
6.5	+111818	-803	·8232047	+111818	-803	·8189637	+456596	-803	·8146631	+39466	-803	·8103033	+30360	6.5
6.6	+148193	-694	·8455560	+148193	-694	·8417132	+603991	-694	·8378112	+51299	-694	·8338502	+40302	6.6
6.7	+198494	-675	·8657618	+198494	-675	·8623044	+794111	-675	·8587893	+66274	-675	·8552167	+49329	6.7
6.8	+266394	-549	·8839036	+266394	-549	·8808145	+105174	-549	·8776700	+89184	-549	·8744700	+68188	6.8
6.9	+356177	-513	·9000848	+356177	-513	·8973431	+139415	-513	·8945491	+11874	-513	·8917024	+9029	6.9
7.0	+474859	-482	·9144246	+474859	-482	·9120072	+18400	-482	·9095408	+15282	-482	·9070250	+11090	7.0
7.1	+626485	-444	·9270534	+626485	-444	·9249353	+24109	-444	·9227720	+20457	-444	·9205629	+14530	7.1
7.2	+816020	-405	·9381079	+816020	-405	·9362636	+31609	-405	·9343778	+27484	-405	·9324502	+20442	7.2
7.3	+105474	-365	·9477274	+105474	-365	·9461311	+39929	-365	·9444972	+34747	-365	·9428252	+25329	7.3
7.4	+138793	-327	·9560503	+138793	-327	·9546766	+49684	-327	·9532692	+4554	-327	·9518277	+3148	7.4
7.5	+18103	-299	·9632112	+18103	-299	·9620357	+61272	-299	·9608304	+5368	-299	·9595946	+3807	7.5



u	p = 29.0			p = 29.2			p = 29.4			p = 29.6			p = 29.8			p = 30.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	u
7.5	.9696619	-8993 -87	-266	.9686560	-9211 -83	-270	.9676230	-9430 -83	-275	.9665626	-9654 -81	-280	.9654741	-9876 -76	-285	.9643571	7.5
7.6	.9748110	-7876 -91	-232	.9739596	-8073 -80	-236	.9730846	-8282 -80	-241	.9721854	-8488 -80	-245	.9712617	-8694 -88	-250	.9703130	7.6
7.7	.9791723	-6857 -94	-201	.9784554	-7022 -83	-205	.9777180	-7223 -84	-210	.9769596	-7418 -84	-214	.9761799	-7601 -94	-218	.9753783	7.7
7.8	.9828479	-5928 -85	-173	.9822474	-6091 -85	-177	.9816291	-6257 -85	-181	.9809928	-6428 -85	-185	.9803380	-6601 -85	-189	.9796643	7.8
7.9	.9859309	-5093 -91	-148	.9854303	-5239 -92	-151	.9849145	-5389 -93	-155	.9843832	-5540 -94	-159	.9838360	-5694 -94	-162	.9832726	7.9
8.0	.9885046	-4350 -87	-126	.9880893	-4480 -88	-129	.9876610	-4610 -89	-132	.9872196	-4746 -90	-135	.9867646	-4882 -91	-139	.9862958	8.0
8.1	.9906433	-3694 -91	-106	.9903003	-3906 -90	-109	.9899465	-3924 -94	-112	.9895814	-4046 -95	-114	.9892050	-4163 -95	-117	.9888167	8.1
8.2	.9924126	-3126 -75	-89	.9921307	-3219 -77	-99	.9918396	-3318 -76	-94	.9915392	-3428 -79	-97	.9912291	-3528 -80	-99	.9909091	8.2
8.3	.9938699	-2621 -89	-74	.9936392	-2705 -89	-77	.9934009	-2792 -71	-79	.9931547	-2881 -73	-81	.9929004	-2972 -75	-83	.9926379	8.3
8.4	.9950651	-2190 -82	-62	.9948772	-2283 -83	-64	.9946829	-2377 -64	-65	.9944821	-2474 -65	-67	.9942745	-2572 -67	-69	.9940601	8.4
8.5	.9960413	-1821 -55	-51	.9958889	-1883 -58	-53	.9957312	-1947 -57	-54	.9955681	-2012 -58	-56	.9953994	-2079 -58	-57	.9952250	8.5
8.6	.9968354	-1507 -46	-42	.9967123	-1559 -50	-43	.9965848	-1613 -51	-44	.9964529	-1668 -52	-46	.9963164	-1725 -53	-47	.9961752	8.6
8.7	.9974788	-1241 -43	-34	.9973798	-1288 -43	-35	.9972771	-1329 -43	-36	.9971709	-1377 -43	-36	.9970609	-1425 -47	-39	.9969470	8.7
8.8	.9979981	-1017 -35	-26	.9979187	-1033 -35	-29	.9978365	-1093 -35	-30	.9977512	-1130 -40	-31	.9976629	-1170 -41	-32	.9975715	8.8
8.9	.9984157	-831 -31	-22	.9983523	-862 -32	-23	.9982866	-892 -33	-24	.9982185	-925 -34	-25	.9981479	-959 -35	-26	.9980747	8.9
9.0	.9987502	-676 -27	-18	.9986997	-698 -28	-19	.9986475	-726 -28	-19	.9985933	-753 -28	-20	.9985370	-779 -28	-21	.9984788	9.0
9.1	.9990171	-545 -23	-15	.9989772	-566 -23	-15	.9989358	-589 -24	-16	.9988928	-616 -25	-16	.9988482	-634 -26	-17	.9988019	9.1
9.2	.9992295	-441 -19	-12	.9991979	-456 -20	-12	.9991652	-474 -21	-12	.9991313	-493 -21	-13	.9990960	-511 -22	-13	.9990594	9.2
9.3	.9993978	-354 -18	-9	.9993730	-359 -18	-10	.9993472	-381 -17	-10	.9993205	-398 -18	-10	.9992927	-413 -19	-10	.9992639	9.3
9.4	.9995307	-282 -14	-7	.9995113	-294 -14	-6	.9994911	-306 -14	-8	.9994701	-317 -15	-8	.9994483	-329 -16	-8	.9994257	9.4
9.5	.9996354	-226 -11	-6	.9996202	-234 -12	-6	.9996044	-243 -12	-6	.9995880	-253 -12	-6	.9995710	-263 -13	-7	.9995533	9.5
9.6	.9997175	-178 -9	-5	.9997057	-188 -10	-5	.9996934	-193 -10	-5	.9996806	-200 -10	-5	.9996674	-210 -10	-5	.9996536	9.6
9.7	.9997818	-142 -9	-4	.9997726	-147 -9	-4	.9997631	-154 -9	-4	.9997532	-161 -8	-4	.9997428	-164 -8	-4	.9997321	9.7
9.8	.9998319	-112 -6		.9998248	-116 -6		.9998174	-120 -6		.9998097	-124 -7		.9998018	-132 -7		.9997935	9.8
9.9	.9998708	-87 -5		.9998654	-92 -5		.9998597	-96 -5		.9998538	-100 -6		.9998476	-102 -6		.9998412	9.9
10.0	.9999010	-69 -4		.9998968	-71 -4		.9998924	-73 -4		.9998879	-77 -4		.9998832	-81 -4		.9998782	10.0
10.1	.9999243	-53 -3		.9999211	-55 -3		.9999178	-57 -4		.9999143	-60 -4		.9999107	-63 -4		.9999069	10.1
10.2	.9999423	-41 -3		.9999399	-44 -3		.9999373	-45 -3		.9999347	-48 -3		.9999319	-49 -3		.9999290	10.2
10.3	.9999562	-34 -3		.9999543	-34 -3		.9999523	-35 -3		.9999503	-36 -3		.9999482	-38 -3		.9999460	10.3
10.4	.9999667	-24 -3		.9999653	-25 -3		.9999638	-27 -3		.9999623	-28 -3		.9999607	-29 -3		.9999590	10.4
10.5	.9999748	-19 -3		.9999738	-21 -3		.9999726	-20 -3		.9999715	-22 -3		.9999703	-24 -3		.9999690	10.5
10.6	.9999810	-15 -3		.9999802	-15 -3		.9999794	-17 -3		.9999785	-17 -3		.9999775	-16 -3		.9999766	10.6
10.7	.9999857	-11 -3		.9999851	-12 -3		.9999845	-13 -3		.9999838	-13 -3		.9999831	-14 -3		.9999824	10.7
10.8	.9999893	-10 -3		.9999888	-9 -3		.9999883	-10 -3		.9999878	-10 -3		.9999873	-10 -3		.9999868	10.8
10.9	.9999919	-8 -3		.9999916	-7 -3		.9999912	-6 -3		.9999909	-8 -3		.9999905	-8 -3		.9999901	10.9
11.0	.9999940	-6 -3		.9999937	-5 -3		.9999935	-7 -3		.9999932	-6 -3		.9999929	-5 -3		.9999926	11.0
11.1	.9999955	-5 -3		.9999953	-4 -3		.9999951	-5 -3		.9999949	-5 -3		.9999947	-5 -3		.9999945	11.1
11.2	.9999967	-4 -3		.9999965	-4 -3		.9999964	-4 -3		.9999962	-4 -3		.9999960	-4 -3		.9999959	11.2
11.3	.9999975			.9999974			.9999973			.9999972			.9999971			.9999969	11.3
11.4	.9999982			.9999981			.9999980			.9999979			.9999978			.9999977	11.4
11.5	.9999986			.9999986			.9999985			.9999985			.9999984			.9999983	11.5
11.6	.9999990			.9999989			.9999989			.9999989			.9999988			.9999988	11.6
11.7	.9999993			.9999992			.9999992			.9999992			.9999991			.9999991	11.7
11.8	.9999995			.9999994			.9999994			.9999994			.9999994			.9999993	11.8
11.9	.9999996			.9999996			.9999996			.9999995			.9999995			.9999995	11.9
12.0	.9999997			.9999997			.9999997			.9999997			.9999997			.9999996	12.0
12.1	.9999998			.9999998			.9999998			.9999998			.9999998			.9999997	12.1
12.2	.9999998			.9999998			.9999998			.9999998			.9999998			.9999998	12.2
12.3	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	12.3
12.4	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	12.4
12.5	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	12.5
12.6	1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			.9999999	12.6
12.7																1.0000000	12.7





u	p = 31.0				p = 31.2				p = 31.4				p = 31.6				p = 31.8				p = 32.0		
	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	u	
1.6	0.000000																					1.6	
1.7	0.000000																						1.7
1.8	0.000000	+1			0.000000	0			0.000000	+1			0.000000	0			0.000000	0			0.000000	1.8	
1.9	0.000001	+2			0.000001	+3			0.000001	+1			0.000001	+1			0.000001	+1			0.000001	1.9	
2.0	0.000004	+4			0.000003	+4			0.000003	+3			0.000002	+4			0.000002	+3			0.000002	2.0	
2.1	0.000010	+9			0.000009	+8			0.000008	+7			0.000007	+6			0.000006	+5			0.000005	2.1	
2.2	0.000026	+21			0.000023	+19			0.000020	+17			0.000018	+14			0.000015	+14			0.000013	2.2	
2.3	0.000063	+44			0.000056	+39			0.000049	+33			0.000043	+35			0.000038	+32			0.000034	2.3	
2.4	0.000144	+85			0.000128	+77			0.000113	+70			0.000100	+64			0.000089	+57			0.000079	2.4	
2.5	0.000310	+159	+4		0.000277	+145	+4		0.000247	+132			0.000221	+118			0.000197	+108			0.000175	2.5	
2.6	0.000635	+282	+7		0.000571	+255	+6		0.000513	+235	+6		0.000460	+217	+6		0.000413	+193	+6		0.000371	2.6	
2.7	0.001242	+479	+12		0.001123	+440	+11		0.001014	+408	+10		0.000916	+379	+9		0.000827	+341	+8		0.000746	2.7	
2.8	0.002328	+776	+20		0.002115	+720	+19		0.001921	+666	+17		0.001744	+616	+16		0.001582	+571	+14		0.001435	2.8	
2.9	0.004190	+1215	+33		0.003827	+1130	+30		0.003493	+1053	+28		0.003188	+978	+25		0.002908	+908	+24		0.002651	2.9	
3.0	0.007267	+1828	+50		0.006669	+1712	+47		0.006118	+1600	+45		0.005610	+1497	+40		0.005142	+1399	+37		0.004711	3.0	
3.1	0.012172	+2681	+75		0.011223	+2502	+70		0.010343	+2353	+65		0.009529	+2210	+60		0.008775	+2075	+56		0.008077	3.1	
3.2	0.019738	+3746	+105		0.018279	+3548	+101		0.016921	+3240	+95		0.015658	+3045	+89		0.014483	+2859	+83		0.013392	3.2	
3.3	0.031050	+5114	+161		0.028877	+4858	+142		0.026845	+4609	+133		0.024946	+4373	+125		0.023173	+4146	+115		0.021517	3.3	
3.4	0.047476	+6777	+204		0.044331	+6486	+192		0.041378	+6167	+182		0.038607	+5677	+172		0.036009	+5296	+162		0.033572	3.4	
3.5	0.070679	+8734	+265		0.066251	+8371	+254		0.062078	+8016	+241		0.058145	+7673	+229		0.054441	+7343	+217		0.050955	3.5	
3.6	0.102616	+10958	+342		0.096542	+10546	+328		0.090794	+10144	+311		0.085356	+9753	+296		0.080216	+9370	+282		0.075357	3.6	
3.7	0.145509	+13939	+425		0.137378	+12945	+406		0.129654	+12505	+390		0.122320	+12074	+374		0.115361	+11659	+357		0.108758	3.7	
3.8	0.201795	+15999	+517		0.191159	+15590	+497		0.181020	+15036	+475		0.171358	+14576	+459		0.162156	+14129	+441		0.153394	3.8	
3.9	0.274050	+18584	+612		0.260440	+18112	+591		0.247421	+17471	+570		0.234972	+17171	+550		0.223073	+16871	+530		0.211705	3.9	
4.0	0.364889	+21121	+707		0.347833	+20668	+688		0.331463	+20212	+665		0.315757	+19755	+644		0.300696	+19296	+623		0.286257	4.0	
4.1	0.476849	+23455	+799		0.455894	+23044	+775		0.435717	+22587	+747		0.416297	+22203	+732		0.397614	+21819	+716		0.379645	4.1	
4.2	0.612264	+25450	+883		0.586999	+25105	+863		0.562598	+24752	+843		0.539040	+24455	+826		0.516304	+24109	+810		0.494370	4.2	
4.3	0.773129	+26987	+954		0.743212	+26733	+938		0.714231	+26463	+917		0.686168	+26177	+899		0.659003	+25878	+880		0.632718	4.3	
4.4	0.960981	+27077	+1005		0.926158	+27811	+992		0.892327	+27845	+976		0.859473	+27480	+960		0.827580	+27254	+944		0.796630	4.4	
4.5	1.176790	+28271	+1041		1.136915	+28247	+1029		1.098068	+28209	+1017		1.060238	+28134	+1004		1.023412	+28046	+991		0.987577	4.5	
4.6	1.420870	+27875	+1051		1.375919	+27958	+1043		1.332011	+28065	+1036		1.289137	+28129	+1026		1.247290	+28183	+1015		1.206458	4.6	
4.7	1.692828	+26782	+1038		1.642909	+26994	+1033		1.594022	+27212	+1029		1.546165	+27492	+1024		1.499331	+27679	+1015		1.453517	4.7	
4.8	1.991538	+24013	+932		1.936893	+25283	+935		1.883245	+25529	+905		1.830595	+25829	+905		1.778944	+26050	+892		1.728290	4.8	
4.9	2.315161	+22405	+906		2.256160	+22894	+935		2.198097	+23381	+944		2.140978	+23804	+945		2.084807	+24228	+952		2.029587	4.9	
5.0	2.661189	+19308	+846		2.598321	+19901	+857		2.536310	+20473	+866		2.475165	+21026	+875		2.414896	+21557	+889		2.355510	5.0	
5.1	3.026525	+16730	+741		2.960383	+16403	+765		2.894996	+17061	+789		2.830378	+17702	+782		2.766542	+18328	+794		2.703501	5.1	
5.2	3.407591	+11792	+621		3.338848	+12523	+635		3.270743	+13243	+656		3.203293	+13953	+672		3.136516	+14646	+687		3.070426	5.2	
5.3	3.800449	+7631	+490		3.729836	+8398	+510		3.659733	+9164	+530		3.590160	+9903	+546		3.521136	+10644	+567		3.452679	5.3	
5.4	4.200938	+3954	+363		4.129220	+4155	+375		4.057877	+4924	+396		3.986930	+5680	+417		3.916400	+6433	+437		3.846307	5.4	
5.5	4.604811	-814	+214		4.532759	-59	+257		4.460945	+697	+259		4.389390	+1456	+282		4.318117	+2214	+303		4.247147	5.5	
5.6	5.007870	-4857	+79		4.936239	-4122	+108		4.864710	-3400	+124		4.793306	-2875	+147		4.722048	-1943	+169		4.650959	5.6	
5.7	5.406092	-8580	-60		5.335597	-7928	-26		5.265075	-6580	+6		5.194547	-5589	+17		5.124036	-4689	+59		5.053563	5.7	
5.8	5.795734	-11951	-166		5.727032	-11367	-147		5.658183	-10770	-126		5.589208	-10183	-106		5.520127	-9583	-84		5.450962	5.8	
5.9	6.173425	-14855	-274		6.107100	-14355	-265		6.040521	-13872	-286		5.973706	-13343	-318		5.906675	-12809	-196		5.839447	5.9	
6.0	6.536231	-17334	-365		6.472783	-16926	-345		6.408987	-16501	-331		6.344861	-16063	-313		6.280420	-15606	-296		6.215684	6.0	
6.1	6.881703	-19521	-440		6.821540	-19586	-426		6.760952	-19334	-411		6.699953	-19055	-396		6.638559	-18754	-380		6.576784	6.1	
6.2	7.207894	-20717	-499		7.151332	-20495	-437		7.094283	-20256	-475		7.036760	-20003	-492		6.978774	-19731	-449		6.920339	6.2	
6.3	7.513368	-21663	-542		7.460629	-21627	-533		7.407358	-21378	-523		7.353564	-21215	-518		7.299258	-21036	-502		7.244448	6.3	
6.4	7.797179	-22144	-670		7.748399	-22094	-683		7.699055	-22027	-686		7.649155	-21946	-645		7.598707	-21849	-640		7.547720	6.4	
6.5	8.058846	-22206	-684		8.014075	-22229	-679		7.968725	-22235	-674		7.922800	-22233	-669		7.876307	-22216	-665		7.829250	6.5	
6.6	8.298305	-21901	-685		8.257522	-21984	-683		8.216157	-22058	-580		8.174212	-22121	-676		8.131691	-22172	-673		8.088596	6.6	
6.7	8.515863	-21377	-676		8.478985	-21417	-575		8.441531	-21043	-574		8.403503	-21084	-672		8.364903	-21174	-671		8.325731	6.7	
6.8	8.712144	-20388	-667		8.679031	-20577	-558		8.645360	-20751	-555		8.611130	-20816	-559		8.576341	-21012	-559		8.540994	6.8	
6.9	8.888027	-19516	-531		8.858500	-19529	-634		8.828438	-19734	-645		8.797841	-19936	-637		8.766707	-20130	-635		8.735035	6.9	
7.0	9.044595	-18086	-600		9.018440	-18320	-503		8.991782	-18558	-506		8.964617	-18779	-609		8.936943	-19001	-512		8.908757	7.0	
7.1	9.183077	-16758	-465		9.160060	-17007	-469		9.136573	-17252	-473		9.112614	-17496	-476		9.088178	-17737	-480		9.063262	7.1	
7.2	9.304801	-16377	-429		9.284673	-16532	-439		9.264112	-16836	-437		9.243115	-17187	-441		9.221676	-17588	-445		9.199793	7.2	
7.3	9.411148	-15981	-385		9.393654	-16234	-394		9.375766	-16489	-399		9.357479	-16743	-403		9.338788	-17096	-408		9.319689	7.3	
7.4	9.503514	-12601	-361		9.488401	-12850	-366		9.472931	-13068	-361		9.457100	-13347	-366		9.440904	-13599	-370		9.424337	7.4	
7.5	9.583279	-11267	-314		9.570																		



u	p = 32.0		p = 32.2		p = 32.4		p = 32.6		p = 32.8		p = 33.0		u	
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$
1.6													1.6	
1.7													1.7	
1.8			-0.000000			-0.000000			-0.000000			-0.000000		1.8
1.9	+1 +1		-0.000000	+1 +1		-0.000000	+1 +1		-0.000000	0 0		-0.000000	0 0	1.9
2.0	+2 +5		-0.000001	+2 +5		-0.000001	+2 +5		-0.000001	+1 +4		-0.000001	+1 +4	2.0
2.1	+4 +13		-0.000004	+4 +13		-0.000004	+4 +13		-0.000003	+3 +8		-0.000002	+3 +8	2.1
2.2	+7 +24		-0.000012	+7 +24		-0.000012	+7 +24		-0.000009	+2 +7		-0.000007	+2 +7	2.2
2.3	+13 +41		-0.000029	+13 +41		-0.000026	+13 +41		-0.000023	+1 +6		-0.000020	+1 +6	2.3
2.4	+21 +71		-0.000070	+21 +71		-0.000062	+21 +71		-0.000055	+8 +23		-0.000048	+8 +23	2.4
2.5	+100 +32		-0.000156	+100 +32		-0.000139	+100 +32		-0.000124	+27 +82		-0.000110	+27 +82	2.5
2.6	+179 +56	+4	-0.000332	+179 +56	+4	-0.000298	+179 +56	+4	-0.000267	+136 +46		-0.000239	+136 +46	2.6
2.7	+314 +78	+6	-0.000672	+314 +78	+6	-0.000606	+314 +78	+6	-0.000546	+244 +89	+6	-0.000492	+244 +89	2.7
2.8	+527 +104	+13	-0.001302	+527 +104	+13	-0.001180	+527 +104	+13	-0.001069	+412 +95	+10	-0.000968	+412 +95	2.8
2.9	+844 +146	+22	-0.002416	+844 +146	+22	-0.002201	+844 +146	+22	-0.002004	+678 +110	+17	-0.001824	+678 +110	2.9
3.0	+1308 +181	+34	-0.004315	+1308 +181	+34	-0.003950	+1308 +181	+34	-0.003615	+1050 +164	+27	-0.003307	+1050 +164	3.0
3.1	+1949 +218	+52	-0.007432	+1949 +218	+52	-0.006836	+1949 +218	+52	-0.006285	+1606 +197	+42	-0.005776	+1606 +197	3.1
3.2	+2810 +259	+77	-0.012377	+2810 +259	+77	-0.011435	+2810 +259	+77	-0.010561	+2330 +241	+63	-0.009750	+2330 +241	3.2
3.3	+3930 +278	+111	-0.019972	+3930 +278	+111	-0.018531	+3930 +278	+111	-0.017187	+3333 +265	+91	-0.015935	+3333 +265	3.3
3.4	+5328 +293	+133	-0.031288	+5328 +293	+133	-0.029149	+5328 +293	+133	-0.027146	+4581 +268	+138	-0.025271	+4581 +268	3.4
3.5	+7019 +299	+205	-0.047674	+7019 +299	+205	-0.044587	+7019 +299	+205	-0.041686	+6115 +294	+175	-0.038959	+6115 +294	3.5
3.6	+9999 +258	+269	-0.070767	+9999 +258	+269	-0.066433	+9999 +258	+269	-0.062341	+7943 +273	+231	-0.058481	+7943 +273	3.6
3.7	+11233 +204	+341	-0.102497	+11233 +204	+341	-0.096562	+11233 +204	+341	-0.090939	+10041 +285	+284	-0.085613	+10041 +285	3.7
3.8	+13675 +128	+423	-0.145055	+13675 +128	+423	-0.137122	+13675 +128	+423	-0.129578	+12374 +189	+373	-0.122407	+12374 +189	3.8
3.9	+18241 +99	+511	-0.200848	+18241 +99	+511	-0.190482	+18241 +99	+511	-0.180591	+14975 +81	+456	-0.171156	+14975 +81	3.9
4.0	+18838 +213	+603	-0.272422	+18838 +213	+603	-0.259169	+18838 +213	+603	-0.246479	+17457 +88	+544	-0.234334	+17457 +88	4.0
4.1	+21337 +215	+694	-0.362370	+21337 +215	+694	-0.345770	+21337 +215	+694	-0.329824	+20011 +73	+634	-0.314512	+20011 +73	4.1
4.2	+23623 +345	+782	-0.473218	+23623 +345	+782	-0.452828	+23623 +345	+782	-0.433180	+22419 +290	+722	-0.414255	+22419 +290	4.2
4.3	+25564 +479	+881	-0.607294	+25564 +479	+881	-0.582713	+25564 +479	+881	-0.558955	+24347 +331	+804	-0.536001	+24347 +331	4.3
4.4	+27033 +572	+927	-0.766608	+27033 +572	+927	-0.737496	+27033 +572	+927	-0.709277	+26276 +520	+878	-0.681935	+26276 +520	4.4
4.5	+27934 +555	+977	-0.952718	+27934 +555	+977	-0.918822	+27934 +555	+977	-0.885875	+27485 +610	+933	-0.853861	+27485 +610	4.5
4.6	+29178 +704	+1066	-1.166633	+29178 +704	+1066	-1.127803	+29178 +704	+1066	-1.089958	+28904 +690	+973	-1.053085	+28904 +690	4.6
4.7	+27714 +726	+1013	-1.408716	+27714 +726	+1013	-1.364921	+27714 +726	+1013	-1.322125	+28063 +721	+991	-1.280321	+28063 +721	4.7
4.8	+26524 +706	+998	-1.678632	+26524 +706	+998	-1.629968	+26524 +706	+998	-1.582295	+27201 +718	+987	-1.535608	+27201 +718	4.8
4.9	+24828 +660	+955	-1.975323	+24828 +660	+955	-1.922015	+24828 +660	+955	-1.869666	+25683 +589	+959	-1.818276	+25683 +589	4.9
5.0	+22068 +578	+801	-2.297014	+22068 +578	+801	-2.239416	+22068 +578	+801	-2.182720	+23478 +524	+905	-2.126932	+23478 +524	5.0
5.1	+18934 +472	+803	-2.641265	+18934 +472	+803	-2.579844	+18934 +472	+803	-2.519250	+20645 +330	+835	-2.459490	+20645 +330	5.1
5.2	+15329 +344	+702	-3.005038	+15329 +344	+702	-2.940366	+15329 +344	+702	-2.876425	+17294 +413	+743	-2.813225	+17294 +413	5.2
5.3	+11878 +216	+585	-3.384806	+11878 +216	+585	-3.317536	+11878 +216	+585	-3.250884	+13810 +288	+634	-3.184867	+13810 +288	5.3
5.4	+7212 +74	+458	-3.776673	+7212 +74	+458	-3.707515	+7212 +74	+458	-3.638853	+9448 +149	+514	-3.570706	+9448 +149	5.4
5.5	+2972 +60	+323	-4.176502	+2972 +60	+323	-4.106203	+2972 +60	+323	-4.036270	+5238 +14	+397	-3.966724	+5238 +14	5.5
5.6	+1208 +133	+191	-4.580061	+1208 +133	+191	-4.509376	+1208 +133	+191	-4.438925	+1014 +118	+255	-4.368730	+1014 +118	5.6
5.7	+283 +288	+60	-4.983151	+283 +288	+60	-4.912821	+283 +288	+60	-4.842594	+302 +82	+123	-4.772493	+302 +82	5.7
5.8	-6914 +375	-63	-5.381734	-6914 +375	-63	-5.312463	-6914 +375	-63	-5.243171	-6968 +330	0	-5.173880	-6968 +330	5.8
5.9	-1248 +445	-177	-5.772042	-1248 +445	-177	-5.704481	-1248 +445	-177	-5.636782	-10310 +407	-117	-5.568966	-10310 +407	5.9
6.0	-15137 +481	-278	-6.150671	-15137 +481	-278	-6.085397	-15137 +481	-278	-6.019883	-13847 +467	-204	-5.954145	-13847 +467	6.0
6.1	-17345 +577	-384	-6.514645	-17345 +577	-384	-6.452157	-17345 +577	-384	-6.389337	-16317 +494	-318	-6.326202	-16317 +494	6.1
6.2	-19448 +510	-436	-6.861468	-19448 +510	-436	-6.802175	-19448 +510	-436	-6.742474	-18488 +511	-394	-6.682379	-18488 +511	6.2
6.3	-20837 +486	-491	-7.189148	-20837 +486	-491	-7.133367	-20837 +486	-491	-7.077118	-20156 +499	-457	-7.020413	-20156 +499	6.3
6.4	-21742 +463	-531	-7.496201	-21742 +463	-531	-7.444169	-21742 +463	-531	-7.391604	-21234 +480	-504	-7.338545	-21234 +480	6.4
6.5	-22184 +415	-557	-7.781637	-22184 +415	-557	-7.733473	-22184 +415	-557	-7.684766	-22010 +440	-538	-7.635522	-22010 +440	6.5
6.6	-22211 +369	-569	-8.044933	-22211 +369	-569	-8.000705	-22211 +369	-569	-7.955918	-22256 +395	-555	-7.910575	-22256 +395	6.6
6.7	-21872 +311	-569	-8.285991	-21872 +311	-569	-8.245684	-21872 +311	-569	-8.204814	-22107 +342	-581	-8.163381	-22107 +342	6.7
6.8	-21229 +253	-559	-8.505088	-21229 +253	-559	-8.468624	-21229 +253	-559	-8.431603	-21618 +276	-565	-8.394025	-21618 +276	6.8
6.9	-20319 +199	-540	-8.702823	-20319 +199	-540	-8.670070	-20319 +199	-540	-8.636776	-20641 +229	-542	-8.602940	-20641 +229	6.9
7.0	-19217 +141	-514	-8.880058	-19217 +141	-514	-8.850842	-19217 +141	-514	-8.821108	-19837 +171	-520	-8.790855	-19837 +171	7.0
7.1	-17974 +96	-483	-9.037863	-17974 +96	-483	-9.011978	-17974 +96	-483	-8.985603	-18869 +129	-492	-8.958737	-18869 +129	7.1
7.2	-18835 +48	-449	-9.177461	-18835 +48	-449	-9.154677	-18835 +48	-449	-9.131436	-17887 +73	-480	-9.107735	-17887 +73	7.2
7.3	-15243 +14	-412	-9.300178	-15243 +14	-412	-9.280250	-15243 +14	-412	-9.259902	-16999 +33	-423	-9.239128	-16999 +33	7.3
7.4	-13647 -24	-375	-9.407396	-13647 -24	-375	-9.390074	-13647 -24	-375	-9.372369	-14338 -5	-388	-9.354276	-14338 -5	7.4
7.5	-12470 -45	-338	-9.500505	-12470 -45	-338	-9.485550	-12470 -45	-338	-9.470238	-13202 -33	-352	-9.454575	-13202 -33	7.5



u	p = 31.0			p = 31.2			p = 31.4			p = 31.6			p = 31.8			p = 32.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	u
7.5	.9583279	-11267 -81	-314	.9570298	-11505 -67	-319	.9556998	-11744 -64	-323	.9543374	-11984 -62	-326	.9529422	-12225 -61	-333	.9515138	7.5
7.6	.9651777	-9994 -76	-278	.9640690	-10217 -76	-288	.9629321	-10444 -73	-287	.9617664	-10673 -70	-292	.9605715	-10903 -67	-297	.9593469	7.6
7.7	.9710281	-8800 -87	-244	.9700865	-9009 -85	-249	.9691200	-9229 -83	-253	.9681281	-9432 -82	-258	.9671105	-9645 -82	-262	.9660667	7.7
7.8	.9759985	-7683 -92	-213	.9752031	-7885 -92	-217	.9743859	-8079 -94	-221	.9735466	-8277 -89	-226	.9726847	-8476 -89	-230	.9717998	7.8
7.9	.9801996	-6681 -85	-184	.9795312	-6886 -93	-188	.9788439	-7082 -94	-192	.9781374	-7271 -92	-196	.9774113	-7468 -93	-200	.9766652	7.9
8.0	.9837326	-5764 -94	-169	.9831737	-5919 -94	-162	.9825987	-6080 -93	-166	.9820071	-6242 -93	-169	.9813986	-6406 -95	-173	.9807728	8.0
8.1	.9866892	-4942 -91	-135	.9862243	-5081 -81	-138	.9857455	-5221 -83	-142	.9852526	-5368 -82	-145	.9847453	-5514 -84	-148	.9842231	8.1
8.2	.9891516	-4211 -87	-115	.9887668	-4334 -87	-118	.9883702	-4480 -88	-120	.9879615	-4587 -88	-123	.9875406	-4718 -89	-128	.9871070	8.2
8.3	.9911929	-3587 -81	-87	.9908759	-3876 -82	-90	.9905489	-3785 -84	-102	.9902117	-3897 -85	-104	.9898641	-4010 -86	-107	.9895059	8.3
8.4	.9928775	-3097 -74	-81	.9926174	-3098 -75	-83	.9923491	-3194 -77	-85	.9920722	-3291 -78	-87	.9917866	-3391 -79	-90	.9914920	8.4
8.5	.9942614	-2519 -68	-67	.9940491	-2590 -69	-89	.9938299	-2689 -79	-71	.9936036	-2785 -71	-73	.9933700	-2881 -73	-75	.9931289	8.5
8.6	.9953934	-2099 -66	-56	.9952209	-2168 -62	-57	.9950427	-2239 -63	-59	.9948585	-2310 -65	-61	.9946683	-2384 -66	-62	.9944718	8.6
8.7	.9963155	-1741 -61	-46	.9961759	-1799 -61	-47	.9960316	-1869 -67	-49	.9958824	-1920 -68	-50	.9957282	-1983 -69	-51	.9955688	8.7
8.8	.9970635	-1437 -57	-38	.9969510	-1456 -48	-39	.9968346	-1535 -48	-40	.9967143	-1598 -51	-41	.9965898	-1641 -52	-42	.9964611	8.8
8.9	.9976678	-1181 -43	-31	.9975775	-1221 -43	-32	.9974841	-1264 -44	-33	.9973874	-1307 -45	-34	.9972873	-1351 -48	-35	.9971838	8.9
9.0	.9981540	-964 -36	-25	.9980819	-999 -37	-26	.9980072	-1034 -39	-28	.9979298	-1079 -40	-27	.9978497	-1107 -41	-28	.9977668	9.0
9.1	.9985438	-785 -31	-20	.9984864	-814 -32	-21	.9984269	-843 -33	-21	.9983652	-872 -34	-22	.9983014	-904 -35	-23	.9982353	9.1
9.2	.9988551	-637 -25	-16	.9988095	-659 -26	-17	.9987623	-683 -27	-17	.9987134	-708 -28	-18	.9986627	-733 -29	-18	.9986102	9.2
9.3	.9991027	-513 -22	-13	.9990667	-532 -23	-13	.9990294	-551 -24	-14	.9989908	-573 -24	-14	.9989507	-594 -23	-15	.9989091	9.3
9.4	.9992990	-412 -19	-10	.9992707	-428 -20	-11	.9992414	-446 -20	-11	.9992109	-461 -19	-11	.9991793	-478 -20	-12	.9991465	9.4
9.5	.9994541	-331 -15	-8	.9994319	-343 -16	-8	.9994088	-354 -16	-8	.9993849	-368 -16	-9	.9993601	-382 -17	-8	.9993344	9.5
9.6	.9995761	-262 -13	-8	.9995588	-273 -13	-7	.9995408	-284 -13	-7	.9995221	-295 -14	-7	.9995027	-306 -14	-7	.9994826	9.6
9.7	.9996719	-209 -10	-5	.9996584	-217 -10	-5	.9996444	-226 -10	-5	.9996298	-234 -11	-6	.9996147	-243 -11	-6	.9995990	9.7
9.8	.9997468	-166 -8	-4	.9997363	-172 -8	-4	.9997254	-178 -8	-4	.9997141	-186 -9	-4	.9997024	-193 -9	-4	.9996902	9.8
9.9	.9998051	-129 -7		.9997970	-133 -7		.9997886	-141 -7		.9997799	-147 -7		.9997708	-162 -8	-4	.9997613	9.9
10.0	.9998505	-103 -8		.9998442	-106 -6		.9998377	-110 -8		.9998310	-116 -6		.9998240	-120 -7		.9998167	10.0
10.1	.9998856	-89 -5		.9998808	-84 -5		.9998758	-87 -5		.9998706	-90 -5		.9998652	-93 -5		.9998596	10.1
10.2	.9999127	-83 -4		.9999090	-65 -4		.9999052	-68 -4		.9999012	-70 -4		.9998971	-74 -4		.9998928	10.2
10.3	.9999335	-47		.9999307	-66		.9999278	-62		.9999248	-55		.9999216	-66		.9999183	10.3
10.4	.9999496	-39		.9999474	-38		.9999452	-41		.9999429	-42		.9999405	-45		.9999380	10.4
10.5	.9999618	-28		.9999602	-31		.9999585	-31		.9999568	-34		.9999549	-34		.9999530	10.5
10.6	.9999712	-23		.9999699	-22		.9999687	-25		.9999673	-24		.9999659	-26		.9999645	10.6
10.7	.9999783	-17		.9999774	-19		.9999764	-18		.9999754	-20		.9999743	-20		.9999732	10.7
10.8	.9999837	-13		.9999830	-14		.9999823	-16		.9999815	-15		.9999807	-16		.9999799	10.8
10.9	.9999878	-10		.9999872	-11		.9999867	-11		.9999861	-11		.9999855	-12		.9999849	10.9
11.0	.9999909	-8		.9999905	-9		.9999900	-8		.9999896	-8		.9999892	-10		.9999887	11.0
11.1	.9999932	-7		.9999929	-7		.9999926	-7		.9999923	-6		.9999919	-8		.9999916	11.1
11.2	.9999949	-5		.9999947	-6		.9999945	-5		.9999942	-5		.9999940	-6		.9999937	11.2
11.3	.9999962	-4		.9999961	-4		.9999959	-4		.9999957	-4		.9999955	-5		.9999953	11.3
11.4	.9999972			.9999971			.9999970			.9999968			.9999967	-4		.9999965	11.4
11.5	.9999979			.9999978			.9999978			.9999977			.9999975			.9999974	11.5
11.6	.9999985			.9999984			.9999983			.9999983			.9999982			.9999981	11.6
11.7	.9999989			.9999988			.9999988			.9999987			.9999987			.9999986	11.7
11.8	.9999992			.9999991			.9999991			.9999991			.9999990			.9999990	11.8
11.9	.9999994			.9999994			.9999993			.9999993			.9999993			.9999992	11.9
12.0	.9999996			.9999995			.9999995			.9999995			.9999995			.9999994	12.0
12.1	.9999997			.9999997			.9999996			.9999996			.9999996			.9999996	12.1
12.2	.9999998			.9999997			.9999997			.9999997			.9999997			.9999997	12.2
12.3	.9999998			.9999998			.9999998			.9999998			.9999998			.9999998	12.3
12.4	.9999999			.9999999			.9999999			.9999998			.9999998			.9999998	12.4
12.5	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	12.5
12.6	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	12.6
12.7	1.0000000			1.0000000			.9999999			.9999999			.9999999			.9999999	12.7
12.8							1.0000000			1.0000000			.9999999			.9999999	12.8
12.9													1.0000000			.9999999	12.9
13.0																1.0000000	13.0



u	p = 32.0		p = 32.2		p = 32.4		p = 32.6		p = 32.8		p = 33.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
7.5	-12470 -45	-338	.9500515	-12712 -43	-842	.9485550	-12857 -36	-347	.9470238	-13202 -33	-352	.9454575	-13447 -32	-356	.9438556	-13695 -21	-360	7.5
7.6	-11133 -64	-301	.9580922	-11867 -68	-306	.9568069	-11602 -60	-311	.9554905	-11886 -55	-315	.9541427	-12077 -50	-320	.9527628	-12315 -46	-324	7.6
7.7	-9687 -76	-287	.9649962	-10087 -77	-271	.9638986	-10309 -75	-276	.9627734	-10533 -74	-280	.9616202	-10757 -71	-285	.9604385	-10984 -70	-289	7.7
7.8	-8677 -91	-284	.9708915	-8661 -85	-236	.9699594	-9088 -87	-243	.9690030	-9295 -85	-247	.9680220	-9509 -82	-251	.9670158	-9729 -82	-256	7.8
7.9	-7575 -84	-204	.9758987	-7765 -83	-208	.9751114	-7954 -82	-212	.9743030	-8148 -92	-215	.9734729	-8341 -92	-220	.9726209	-8539 -91	-224	7.9
8.0	-6573 -86	-175	.9801294	-6744 -95	-180	.9794680	-6916 -95	-184	.9787882	-7080 -96	-187	.9780897	-7265 -95	-191	.9773721	-7445 -95	-195	8.0
8.1	-5664 -95	-151	.9836857	-5615 -94	-155	.9831330	-5872 -94	-159	.9825644	-6129 -95	-161	.9819797	-6290 -96	-165	.9813785	-6453 -96	-168	8.1
8.2	-4850 -92	-129	.9866605	-4866 -93	-132	.9862008	-5122 -84	-135	.9857277	-5264 -94	-136	.9852407	-5407 -95	-141	.9847396	-5552 -95	-144	8.2
8.3	-4128 -88	-109	.9891367	-4245 -85	-112	.9887564	-4370 -89	-115	.9883646	-4463 -90	-117	.9879610	-4619 -89	-120	.9875455	-4780 -93	-123	8.3
8.4	-3492 -81	-92	.9911883	-3598 -82	-94	.9908750	-3702 -83	-96	.9905522	-3813 -84	-99	.9902194	-3924 -86	-101	.9898764	-4035 -87	-104	8.4
8.5	-2940 -74	-77	.9928801	-3029 -76	-79	.9926234	-3123 -77	-81	.9923585	-3215 -76	-83	.9920854	-3312 -79	-83	.9918038	-3412 -80	-87	8.5
8.6	-2459 -67	-64	.9942690	-2637 -69	-66	.9940595	-2615 -70	-66	.9938433	-2697 -71	-69	.9936202	-2751 -72	-71	.9933900	-2866 -73	-73	8.6
8.7	-2047 -61	-53	.9954042	-2114 -62	-54	.9952341	-2182 -63	-56	.9950584	-2282 -64	-57	.9948769	-2321 -65	-59	.9946896	-2395 -67	-61	8.7
8.8	-1696 -53	-43	.9963280	-1750 -55	-45	.9961905	-1809 -56	-46	.9960483	-1867 -58	-47	.9959015	-1930 -56	-48	.9957497	-1991 -60	-50	8.8
8.9	-1397 -47	-35	.9970768	-1446 -46	-37	.9969660	-1492 -50	-38	.9968515	-1543 -51	-39	.9967331	-1593 -52	-40	.9966107	-1645 -53	-41	8.9
9.0	-1145 -49	-29	.9976810	-1164 -43	-30	.9975923	-1227 -44	-31	.9975004	-1266 -44	-32	.9974054	-1311 -46	-33	.9973071	-1355 -47	-34	9.0
9.1	-935 -36	-23	.9981668	-956 -37	-24	.9980959	-1001 -36	-25	.9980225	-1036 -38	-26	.9979466	-1073 -39	-26	.9978680	-1110 -40	-27	9.1
9.2	-780 -31	-19	.9985558	-788 -32	-19	.9984994	-615 -33	-20	.9984410	-644 -33	-21	.9983805	-673 -34	-21	.9983179	-703 -35	-22	9.2
9.3	-615 -25	-15	.9988660	-636 -26	-16	.9988213	-659 -27	-16	.9987751	-684 -28	-17	.9987271	-708 -29	-17	.9986775	-734 -29	-16	9.3
9.4	-495 -21	-12	.9991126	-515 -22	-13	.9990773	-533 -22	-13	.9990408	-552 -23	-13	.9990029	-573 -24	-14	.9989637	-593 -25	-14	9.4
9.5	-397 -18	-10	.9993077	-411 -16	-10	.9992800	-427 -19	-10	.9992513	-443 -20	-10	.9992215	-460 -20	-11	.9991906	-476 -21	-11	9.5
9.6	-318 -15	-8	.9994617	-330 -15	-6	.9994400	-342 -16	-6	.9994175	-355 -17	-6	.9993941	-367 -17	-9	.9993699	-382 -17	-9	9.6
9.7	-252 -12	-5	.9995827	-252 -12	-6	.9995658	-273 -13	-6	.9995482	-289 -14	-7	.9995300	-294 -14	-7	.9995110	-303 -15	-7	9.7
9.8	-201 -10	-5	.9996775	-208 -10	-5	.9996643	-215 -11	-5	.9996507	-226 -11	-5	.9996365	-233 -12	-5	.9996218	-243 -13	-6	9.8
9.9	-157 -6	-4	.9997515	-164 -6	-4	.9997413	-171 -6	-4	.9997307	-176 -9	-4	.9997197	-183 -10	-4	.9997083	-191 -10	-4	9.9
10.0	-125 -7		.9998091	-129 -7		.9998012	-134 -8		.9997931	-141 -8		.9997846	-146 -6		.9997757	-150 -9		10.0
10.1	-87 -5		.9998538	-102 -6		.9998477	-105 -6		.9998414	-109 -6		.9998349	-114 -7		.9998281	-119 -7		10.1
10.2	-77 -4		.9998883	-78 -4		.9998837	-83 -4		.9998788	-85 -5		.9998738	-89 -5		.9998686	-93 -5		10.2
10.3	-66 -4		.9999149	-61 -4		.9999114	-64 -4		.9999077	-67 -4		.9999038	-68 -4		.9998998	-71 -4		10.3
10.4	-47		.9999354	-49		.9999327	-50		.9999299	-53		.9999269	-54		.9999239	-57		10.4
10.5	-35		.9999510	-36		.9999490	-38		.9999469	-41		.9999446	-41		.9999423	-43		10.5
10.6	-28		.9999630	-29		.9999615	-31		.9999598	-30		.9999582	-33		.9999564	-34		10.6
10.7	-20		.9999721	-22		.9999709	-21		.9999697	-24		.9999685	-23		.9999671	-25		10.7
10.8	-16		.9999790	-16		.9999782	-16		.9999772	-16		.9999763	-19		.9999753	-20		10.8
10.9	-12		.9999843	-12		.9999836	-13		.9999829	-14		.9999822	-14		.9999815	-15		10.9
11.0	-9		.9999882	-9		.9999877	-11		.9999872	-10		.9999867	-11		.9999862	-12		11.0
11.1	-6		.9999912	-7		.9999909	-9		.9999905	-8		.9999901	-9		.9999897	-9		11.1
11.2	-8		.9999935	-6		.9999932	-7		.9999929	-6		.9999926	-6		.9999923	-6		11.2
11.3	-4		.9999951	-5		.9999949	-6		.9999947	-5		.9999945	-5		.9999943	-5		11.3
11.4			.9999964	-4		.9999962	-4		.9999961	-4		.9999959	-4		.9999958	-4		11.4
11.5			.9999973			.9999972			.9999971			.9999970			.9999969			11.5
11.6			.9999980			.9999979			.9999979			.9999978			.9999977			11.6
11.7			.9999985			.9999985			.9999984			.9999984			.9999983			11.7
11.8			.9999989			.9999989			.9999988			.9999988			.9999988			11.8
11.9			.9999992			.9999992			.9999991			.9999991			.9999991			11.9
12.0			.9999994			.9999994			.9999994			.9999994			.9999993			12.0
12.1			.9999996			.9999995			.9999995			.9999995			.9999995			12.1
12.2			.9999997			.9999997			.9999997			.9999997			.9999996			12.2
12.3			.9999998			.9999998			.9999997			.9999997			.9999997			12.3
12.4			.9999998			.9999998			.9999998			.9999998			.9999998			12.4
12.5			.9999999			.9999999			.9999999			.9999999			.9999999			12.5
12.6			.9999999			.9999999			.9999999			.9999999			.9999999			12.6
12.7			.9999999			.9999999			.9999999			.9999999			.9999999			12.7
12.8			.9999999			.9999999			.9999999			.9999999			.9999999			12.8
12.9			.9999999			.9999999			.9999999			.9999999			1.0000000			12.9
13.0			1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			13.0

573  
524  
49

548



u	p = 33.0		p = 33.2		p = 33.4		p = 33.6		p = 33.8		p = 34.0		u
	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^4}{\delta u^4}$	
1.8	.0000000		.0000000		.0000000		.0000000		.0000000		.0000000		1.8
1.9	.0000000	0	.0000000	0	.0000000	0	.0000000	0	.0000000	0	.0000000	0	1.9
2.0	.0000001	+1	.0000001	+1	.0000001	+1	.0000001	+1	.0000000	+1	.0000000	+1	2.0
2.1	.0000002	+3	.0000002	+3	.0000002	+3	.0000002	+3	.0000001	+2	.0000001	+2	2.1
2.2	.0000007	+8	.0000006	+7	.0000005	+6	.0000004	+5	.0000004	+4	.0000003	+3	2.2
2.3	.0000018	+14	.0000015	+14	.0000014	+10	.0000012	+10	.0000010	+10	.0000009	+10	2.3
2.4	.0000043	+30	.0000038	+26	.0000033	+25	.0000030	+23	.0000026	+21	.0000023	+19	2.4
2.5	.0000098	+61	.0000087	+55	.0000078	+48	.0000069	+45	.0000061	+41	.0000054	+37	2.5
2.6	.0000214	+133	.0000191	+104	.0000171	+95	.0000153	+80	.0000137	+77	.0000122	+70	2.6
2.7	.0000443	+275	.0000399	+198	.0000359	+170	.0000322	+157	.0000290	+143	.0000260	+133	2.7
2.8	.0000876	+531	.0000793	+425	.0000717	+352	.0000648	+298	.0000586	+251	.0000529	+211	2.8
2.9	.0001660	+980	.0001510	+737	.0001373	+603	.0001248	+498	.0001133	+425	.0001029	+369	2.9
3.0	.0003024	+1919	.0002764	+1455	.0002525	+1197	.0002306	+1023	.0002105	+888	.0001921	+781	3.0
3.1	.0005307	+3497	.0004873	+2614	.0004474	+2030	.0004105	+1644	.0003765	+1375	.0003452	+1168	3.1
3.2	.0008997	+6201	.0008300	+4595	.0007653	+3526	.0007055	+2725	.0006500	+2180	.0005987	+1717	3.2
3.3	.0014768	+10528	.0013682	+7875	.0012671	+6064	.0011730	+4700	.0010855	+3623	.0010041	+2803	3.3
3.4	.0023517	+19131	.0021877	+14319	.0020343	+10972	.0018910	+8328	.0017572	+6387	.0016322	+4862	3.4
3.5	.0036397	+35863	.0033991	+26303	.0031732	+20052	.0029613	+15289	.0027626	+11424	.0025763	+8594	3.5
3.6	.0054840	+66288	.0051408	+48794	.0048173	+36818	.0045125	+28286	.0042256	+21806	.0039555	+16696	3.6
3.7	.0080571	+121921	.0075799	+89311	.0071285	+67525	.0067017	+51826	.0062982	+39794	.0059170	+30222	3.7
3.8	.0115593	+221544	.0109121	+161141	.0102977	+120218	.0097145	+91858	.0091612	+69881	.0086365	+53286	3.8
3.9	.0162159	+409888	.0153584	+295533	.0145413	+218128	.0137631	+162705	.0130223	+122888	.0123172	+93556	3.9
4.0	.0222713	+765471	.0211600	+559096	.0200975	+416649	.0190822	+312925	.0181122	+234768	.0171860	+176437	4.0
4.1	.0299814	+1419177	.0285712	+1046699	.0272186	+771620	.0259218	+581772	.0246789	+431735	.0234881	+321521	4.1
4.2	.0396032	+2583383	.0378493	+1867863	.0361617	+1362078	.0345386	+1002928	.0329781	+741985	.0314784	+54808	4.2
4.3	.0513833	+4238177	.0492431	+2944063	.0471777	+2030633	.0451852	+1482590	.0432637	+1092269	.0414114	+82892	4.3
4.4	.0655451	+7256966	.0629809	+5238855	.0604990	+3725063	.0580977	+2743800	.0557752	+2048866	.0535297	+1539770	4.4
4.5	.0822765	+1270945	.0792572	+868755	.0763266	+628639	.0734832	+466535	.0707253	+341222	.0680514	+25839	4.5
4.6	.1017173	+2279173	.0982210	+1628092	.0948181	+1178780	.0915074	+861519	.0882876	+637350	.0851572	+4894	4.6
4.7	.1239498	+4098090	.1199650	+2808869	.1160766	+1928690	.1122835	+1398344	.1085849	+1018753	.1049795	+74933	4.7
4.8	.1489903	+7273388	.1445176	+4878663	.1401420	+3377780	.1358630	+2427863	.1316797	+1793951	.1275916	+132951	4.8
4.9	.1767844	+12825713	.1718370	+8653197	.1669852	+5826768	.1622288	+4126982	.1575675	+2971713	.1530010	+21947	4.9
5.0	.2072056	+2240868	.2018095	+1466879	.1965052	+1025046	.1912928	+738885	.1861726	+536999	.1811445	+39223	5.0
5.1	.2400573	+4189131	.2342507	+2728923	.2285298	+1822657	.2228953	+1291078	.2173476	+935400	.2118872	+68074	5.1
5.2	.2750781	+7618511	.2689103	+5190988	.2628201	+3519668	.2568085	+2427966	.2508766	+1708804	.2450250	+125804	5.2
5.3	.3119500	+1348782	.3054797	+1603531	.2990772	+1081884	.2927439	+746817	.2864810	+534350	.2802898	+389716	5.3
5.4	.3503091	+2410922	.3436026	+3181521	.3369527	+2129159	.3303610	+1430133	.3238292	+1018983	.3173586	+73613	5.4
5.5	.3897584	+426783	.3828870	+747485	.3760601	+1020885	.3692794	+699377	.3625467	+506660	.3558639	+36488	5.5
5.6	.4298810	+752027	.4229188	+1324637	.4159883	+898737	.4090915	+635836	.4022302	+464433	.3954065	+3373	5.6
5.7	.4702538	+1365718	.4632751	+2393158	.4563152	+1620929	.4493762	+1129229	.4424601	+81248	.4355690	+57249	5.7
5.8	.5104609	+248227	.5035379	+449444	.4966212	+262583	.4897128	+183562	.4828148	+132923	.4759291	+95124	5.8
5.9	.5501053	+439955	.5433063	+807387	.5365016	+1164285	.5296932	+801340	.5228830	+573322	.5160731	+403	5.9
6.0	.5888202	+782584	.5822074	+142035	.5755778	+211479	.5689335	+149000	.5622761	+10315	.5556078	+110	6.0
6.1	.6262767	+14447	.6199050	+488	.6135068	+423	.6070838	+414	.6006377	+401	.5941703	+213	6.1
6.2	.6621906	+262782	.6561067	+14969	.6499879	+10385	.6438356	+7469	.6376515	+5461	.6314371	+303	6.2
6.3	.6963263	+461010	.6905681	+17403	.6847680	+12039	.6789273	+8681	.6730473	+6306	.6671294	+4379	6.3
6.4	.7284992	+829372	.7230954	+20772	.7176443	+20559	.7121469	+14898	.7066044	+10808	.7010178	+7440	6.4
6.5	.7585749	+14824	.7535455	+466	.7484647	+489	.7433335	+476	.7381527	+480	.7329232	+487	6.5
6.6	.7864682	+262224	.7818244	+22188	.7771268	+22188	.7723760	+22078	.7675726	+22009	.7627174	+21919	6.6
6.7	.8121391	+461010	.8078847	+418	.8035751	+430	.7992109	+438	.7947925	+444	.7903204	+453	6.7
6.8	.8355893	+829372	.8317208	+371	.8277971	+371	.8238185	+386	.8197852	+398	.8156976	+414	6.8
6.9	.8568562	+14824	.8533642	+318	.8498180	+330	.8462177	+340	.8425563	+348	.8388550	+359	6.9
7.0	.8760080	+262224	.8728782	+20405	.8696960	+20580	.8664614	+20750	.8631742	+20912	.8598344	+21078	7.0
7.1	.8931376	+461010	.8903517	+19312	.8875160	+19230	.8846301	+19120	.8816939	+18997	.8787072	+18858	7.1
7.2	.9083571	+829372	.9058940	+147	.9033840	+159	.9008268	+168	.8982219	+175	.8955693	+181	7.2
7.3	.9217926	+14824	.9196291	+96	.9174219	+105	.9151708	+118	.9128752	+124	.9105350	+128	7.3
7.4	.9335789	+262224	.9316906	+16736	.9297621	+1637	.9277932	+168	.9257832	+175	.9237320	+181	7.4
7.5	.9438556	+461010	.9422176	+13941	.9405431	+14188	.9388317	+14434	.9370829	+14681	.9352963	+14937	7.5



u	p = 34.0		p = 34.2		p = 34.4		p = 34.6		p = 34.8		p = 35.0		u
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	
1.8													1.8
1.9			0.000000		0.000000		0.000000		0.000000		0.000000		1.9
2.0	0		0.000000	0	0.000000	0	0.000000	0	0.000000	0	0.000000	0	2.0
2.1	+2		0.000001	+1	0.000001	+1	0.000001	+1	0.000001	+1	0.000001	+1	2.1
2.2	+4		0.000003	+3	0.000003	+3	0.000002	+3	0.000002	+3	0.000002	+3	2.2
2.3	+8		0.000008	+7	0.000007	+7	0.000006	+7	0.000005	+7	0.000005	+7	2.3
2.4	+17		0.000020	+16	0.000018	+16	0.000016	+16	0.000014	+16	0.000012	+16	2.4
2.5	+37		0.000048	+36	0.000043	+36	0.000038	+36	0.000034	+36	0.000030	+36	2.5
2.6	+79		0.000109	+78	0.000097	+78	0.000087	+78	0.000077	+78	0.000069	+78	2.6
2.7	+131		0.000234	+130	0.000210	+130	0.000188	+130	0.000169	+130	0.000152	+130	2.7
2.8	+231	+5	0.000478	+232	0.000431	+232	0.000389	+232	0.000351	+232	0.000316	+232	2.8
2.9	+392	+9	0.000934	+368	0.000848	+368	0.000769	+368	0.000697	+368	0.000632	+368	2.9
3.0	+633	+16	0.001753	+622	0.001598	+622	0.001457	+622	0.001327	+622	0.001209	+622	3.0
3.1	+1004	+25	0.003164	+987	0.002899	+987	0.002656	+987	0.002431	+987	0.002225	+987	3.1
3.2	+1619	+38	0.005512	+1425	0.005074	+1425	0.004668	+1425	0.004293	+1425	0.003947	+1425	3.2
3.3	+2227	+58	0.009285	+2089	0.008583	+2089	0.007931	+2089	0.007326	+2089	0.006764	+2089	3.3
3.4	+3160	+83	0.015156	+2990	0.014068	+2990	0.013053	+2990	0.012107	+2990	0.011226	+2990	3.4
3.5	+4351	+117	0.024017	+4136	0.022381	+4136	0.020849	+4136	0.019415	+4136	0.018074	+4136	3.5
3.6	+5823	+160	0.037014	+5558	0.034624	+5558	0.032377	+5558	0.030265	+5558	0.028281	+5558	3.6
3.7	+7590	+212	0.055569	+7295	0.052170	+7295	0.048962	+7295	0.045935	+7295	0.043081	+7295	3.7
3.8	+9612	+278	0.081392	+9249	0.076678	+9249	0.072214	+9249	0.067987	+9249	0.063986	+9249	3.8
3.9	+11851	+348	0.116464	+11483	0.110086	+11483	0.104023	+11483	0.098261	+11483	0.092788	+11483	3.9
4.0	+14333	+421	0.163019	+15904	0.154583	+15904	0.146536	+15904	0.138863	+15904	0.131550	+15904	4.0
4.1	+16882	+504	0.223477	+21644	0.212560	+21644	0.202112	+21644	0.192118	+21644	0.182561	+21644	4.1
4.2	+19457	+680	0.300375	+28114	0.286538	+28114	0.273254	+28114	0.260505	+28114	0.248276	+28114	4.2
4.3	+21853	+878	0.396264	+35422	0.379069	+35422	0.362511	+35422	0.346573	+35422	0.331236	+35422	4.3
4.4	+24034	+1074	0.513595	+43671	0.492628	+43671	0.472378	+43671	0.452828	+43671	0.433960	+43671	4.4
4.5	+26641	+1283	0.654597	+52900	0.629487	+52900	0.605167	+52900	0.581620	+52900	0.558830	+52900	4.5
4.6	+29765	+1508	0.821149	+63211	0.791591	+63211	0.762885	+63211	0.735015	+63211	0.707967	+63211	4.6
4.7	+33399	+1758	1.014662	+74700	0.980439	+74700	0.947113	+74700	0.914673	+74700	0.883104	+74700	4.7
4.8	+37543	+2144	1.235978	+87400	1.196974	+87400	1.158896	+87400	1.121734	+87400	1.085478	+87400	4.8
4.9	+42197	+2568	1.485288	+101400	1.441505	+101400	1.398654	+101400	1.356731	+101400	1.315729	+101400	4.9
5.0	+47351	+3131	1.762086	+116700	1.713647	+116700	1.666127	+116700	1.619524	+116700	1.573835	+116700	5.0
5.1	+53005	+3844	2.065146	+134300	2.012300	+134300	1.960337	+134300	1.909258	+134300	1.859065	+134300	5.1
5.2	+59159	+4708	2.392546	+154300	2.335661	+154300	2.279602	+154300	2.224373	+154300	2.169980	+154300	5.2
5.3	+65813	+5733	2.741714	+176800	2.681267	+176800	2.621569	+176800	2.562629	+176800	2.504455	+176800	5.3
5.4	+72967	+6929	3.109508	+201800	3.046071	+201800	2.983289	+201800	2.921174	+201800	2.859737	+201800	5.4
5.5	+80621	+8297	3.492326	+229300	3.426544	+229300	3.361309	+229300	3.296636	+229300	3.232540	+229300	5.5
5.6	+88775	+9846	3.886223	+259400	3.818792	+259400	3.751791	+259400	3.685238	+259400	3.619149	+259400	5.6
5.7	+97429	+11578	4.287047	+292200	4.218693	+292200	4.150646	+292200	4.082925	+292200	4.015549	+292200	5.7
5.8	+106583	+13503	4.690578	+327700	4.622028	+327700	4.553663	+327700	4.485500	+327700	4.417559	+327700	5.8
5.9	+116237	+15635	5.092655	+366000	5.024621	+366000	4.956649	+366000	4.888758	+366000	4.820969	+366000	5.9
6.0	+126491	+17977	5.489302	+407300	5.422455	+407300	5.355553	+407300	5.288618	+407300	5.221667	+407300	6.0
6.1	+137345	+20530	5.876834	+451700	5.811787	+451700	5.746580	+451700	5.681230	+451700	5.615757	+451700	6.1
6.2	+148799	+24303	6.251939	+499300	6.189236	+499300	6.126278	+499300	6.063082	+499300	5.999663	+499300	6.2
6.3	+160853	+29317	6.611750	+550200	6.551854	+550200	6.491622	+550200	6.431067	+550200	6.370205	+550200	6.3
6.4	+173507	+35671	6.953883	+604500	6.897171	+604500	6.840055	+604500	6.782546	+604500	6.724658	+604500	6.4
6.5	+186761	+43375	7.276459	+662300	7.223219	+662300	7.169521	+662300	7.115375	+662300	7.060793	+662300	6.5
6.6	+199615	+52519	7.578109	+723700	7.528540	+723700	7.478474	+723700	7.427920	+723700	7.376886	+723700	6.6
6.7	+213069	+63113	7.857949	+789700	7.812168	+789700	7.765865	+789700	7.719046	+789700	7.671718	+789700	6.7
6.8	+227123	+75257	8.115558	+860300	8.073604	+860300	8.031115	+860300	7.988097	+860300	7.944552	+860300	6.8
6.9	+241777	+88961	8.350929	+935500	8.312771	+935500	8.274079	+935500	8.234854	+935500	8.195098	+935500	6.9
7.0	+256931	+104205	8.564420	+1015300	8.529970	+1015300	8.494994	+1015300	8.459493	+1015300	8.423468	+1015300	7.0
7.1	+272585	+121349	8.756699	+1100700	8.725818	+1100700	8.694429	+1100700	8.662530	+1100700	8.630121	+1100700	7.1
7.2	+288739	+140393	8.928686	+1191700	8.901197	+1191700	8.873222	+1191700	8.844760	+1191700	8.815810	+1191700	7.2
7.3	+305393	+161337	9.081498	+1289300	9.057192	+1289300	9.032429	+1289300	9.007208	+1289300	8.981525	+1289300	7.3
7.4	+322547	+184181	9.216391	+1393500	9.195041	+1393500	9.173267	+1393500	9.151065	+1393500	9.128432	+1393500	7.4
7.5	+340191	+208925	9.334716	+1504300	9.316082	+1504300	9.297058	+1504300	9.277640	+1504300	9.257825	+1504300	7.5







u	p = 34.0		p = 34.2		p = 34.4		p = 34.6		p = 34.8		p = 35.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
7.5	-14928 +5	-382	.9334716	-16172 +13	-380	.9316082	-16416 +18	-390	.9297058	-15659 +22	-394	.9277640	-15900 +24	-395	.9257825	-16142 +34	-401	7.5
7.6	-13521 -26	-346	.9437869	-15763 -25	-351	.9421707	-14006 -19	-355	.9405190	-14240 -14	-359	.9388315	-14494 -1	-363	.9371076	-14736 +2	-367	7.6
7.7	-12142 -64	-311	.9527259	-12379 -46	-316	.9513326	-12615 -44	-320	.9499073	-12853 -37	-324	.9484496	-13089 -40	-328	.9469591	-13325 -34	-333	7.7
7.8	-10615 -69	-277	.9604270	-11041 -67	-281	.9592330	-11268 -92	-286	.9580103	-11494 -83	-290	.9567588	-11724 -86	-294	.9554778	-11954 -82	-298	7.8
7.9	-9569 -82	-244	.9670240	-9770 -85	-249	.9660066	-9983 -81	-253	.9649639	-10198 -77	-257	.9638956	-10415 -75	-261	.9628011	-10633 -72	-265	7.9
8.0	-8387 -92	-214	.9726440	-8584 -91	-218	.9717819	-8779 -90	-222	.9708977	-8980 -89	-226	.9699909	-9181 -85	-230	.9690611	-9384 -86	-234	8.0
8.1	-7306 -96	-186	.9774056	-7482 -95	-183	.9766793	-7666 -94	-188	.9759335	-7847 -94	-197	.9751681	-8032 -94	-201	.9743827	-8221 -93	-204	8.1
8.2	-6320 -98	-160	.9814190	-6483 -97	-164	.9808101	-6644 -96	-167	.9801846	-6811 -96	-170	.9795421	-6981 -95	-174	.9788822	-7162 -95	-177	8.2
8.3	-5432 -98	-137	.9847841	-5676 -96	-140	.9842765	-5723 -96	-143	.9837546	-5873 -97	-146	.9832180	-6029 -93	-149	.9826665	-6178 -98	-153	8.3
8.4	-4639 -91	-117	.9875917	-4767 -92	-119	.9871706	-4897 -93	-122	.9867373	-6029 -95	-125	.9862916	-6166 -96	-128	.9858330	-6301 -97	-130	8.4
8.5	-3988 -86	-99	.9899226	-4050 -87	-101	.9895750	-4164 -89	-103	.9892171	-4290 -90	-108	.9888487	-4400 -91	-108	.9884694	-4522 -92	-111	8.5
8.6	-3329 -80	-83	.9918485	-3421 -81	-85	.9915630	-3520 -82	-87	.9912689	-3624 -83	-89	.9909658	-3727 -84	-91	.9906536	-3833 -85	-93	8.6
8.7	-2759 -74	-69	.9934323	-2872 -75	-71	.9931990	-2960 -76	-73	.9929583	-3046 -77	-75	.9927102	-3136 -78	-77	.9924545	-3229 -79	-78	8.7
8.8	-2238 -65	-57	.9947289	-2399 -67	-69	.9945390	-2473 -69	-70	.9943431	-2545 -70	-73	.9941410	-2627 -72	-74	.9939325	-2705 -73	-75	8.8
8.9	-1832 -58	-47	.9957856	-1992 -60	-69	.9956318	-2065 -61	-70	.9954731	-2121 -62	-71	.9953091	-2186 -63	-73	.9951400	-2255 -65	-74	8.9
9.0	-1504 -52	-39	.9966431	-1647 -53	-60	.9965191	-1701 -54	-61	.9963910	-1755 -56	-62	.9962586	-1810 -55	-63	.9961220	-1869 -59	-64	9.0
9.1	-1310 -46	-32	.9973359	-1353 -47	-53	.9972363	-1397 -48	-54	.9971334	-1444 -49	-55	.9970271	-1493 -51	-56	.9969171	-1539 -52	-56	9.1
9.2	-1071 -39	-26	.9978934	-1105 -40	-46	.9978138	-1146 -42	-47	.9977314	-1188 -43	-48	.9976463	-1222 -44	-49	.9975583	-1264 -45	-49	9.2
9.3	-872 -34	-21	.9983401	-902 -34	-41	.9982767	-922 -35	-42	.9982111	-965 -36	-43	.9981433	-998 -37	-43	.9980731	-1031 -38	-44	9.3
9.4	-705 -29	-17	.9986966	-730 -30	-37	.9986464	-757 -30	-38	.9985943	-782 -31	-38	.9985405	-810 -32	-39	.9984848	-839 -33	-39	9.4
9.5	-570 -24	-13	.9989801	-591 -25	-34	.9989404	-611 -26	-34	.9988993	-633 -27	-35	.9988567	-654 -28	-35	.9988126	-676 -29	-36	9.5
9.6	-468 -21	-10	.9992045	-472 -22	-31	.9991733	-490 -23	-31	.9991410	-505 -23	-32	.9991075	-527 -24	-32	.9990728	-547 -25	-32	9.6
9.7	-384 -18	-8	.9993817	-380 -16	-27	.9993572	-393 -19	-27	.9993319	-408 -19	-28	.9993056	-422 -20	-28	.9992783	-430 -21	-28	9.7
9.8	-291 -15	-7	.9995209	-301 -15	-24	.9995018	-313 -14	-24	.9994820	-324 -16	-25	.9994615	-337 -17	-25	.9994402	-349 -18	-25	9.8
9.9	-231 -11	-6	.9996300	-240 -12	-21	.9996151	-243 -12	-21	.9995997	-257 -13	-22	.9995837	-266 -14	-22	.9995672	-278 -16	-22	9.9
10.0	-182 -10	-4	.9997151	-180 -10	-18	.9997036	-196 -10	-18	.9996917	-206 -10	-19	.9996793	-213 -11	-19	.9996664	-219 -11	-19	10.0
10.1	-143 -8	-4	.9997813	-143 -8	-16	.9997725	-156 -8	-16	.9997632	-160 -8	-17	.9997536	-165 -9	-17	.9997437	-173 -9	-17	10.1
10.2	-113 -7	-4	.9998327	-113 -7	-14	.9998258	-120 -7	-14	.9998187	-126 -7	-15	.9998114	-132 -7	-15	.9998037	-136 -8	-15	10.2
10.3	-87 -6	-4	.9998723	-87 -6	-12	.9998671	-96 -6	-12	.9998616	-98 -6	-13	.9998560	-102 -6	-13	.9998501	-106 -7	-13	10.3
10.4	-69 -4	-4	.9999029	-69 -4	-10	.9998989	-74 -4	-10	.9998947	-77 -6	-11	.9998904	-80 -6	-11	.9998859	-83 -5	-11	10.4
10.5	-53 -4	-4	.9999263	-54 -4	-9	.9999233	-67 -4	-9	.9999201	-69 -4	-10	.9999168	-72 -4	-10	.9999134	-75 -4	-10	10.5
10.6	-40 -3	-4	.9999443	-43 -3	-8	.9999420	-43 -3	-8	.9999396	-47 -3	-9	.9999370	-47 -3	-9	.9999344	-49 -3	-9	10.6
10.7	-32 -3	-3	.9999580	-33 -3	-7	.9999562	-33 -3	-7	.9999544	-36 -3	-8	.9999525	-36 -3	-8	.9999505	-38 -3	-8	10.7
10.8	-25 -3	-3	.9999684	-26 -3	-6	.9999671	-27 -3	-6	.9999657	-28 -3	-7	.9999642	-27 -3	-7	.9999628	-31 -3	-7	10.8
10.9	-17 -3	-3	.9999763	-19 -3	-5	.9999753	-20 -3	-5	.9999742	-20 -3	-6	.9999732	-23 -3	-6	.9999720	-24 -3	-6	10.9
11.0	-15 -3	-3	.9999823	-15 -3	-4	.9999815	-15 -3	-4	.9999807	-16 -3	-5	.9999799	-16 -3	-5	.9999791	-18 -3	-5	11.0
11.1	-12 -3	-3	.9999868	-11 -3	-4	.9999862	-12 -3	-4	.9999856	-12 -3	-5	.9999850	-13 -3	-5	.9999844	-13 -3	-5	11.1
11.2	-9 -3	-3	.9999902	-9 -3	-3	.9999897	-9 -3	-3	.9999893	-9 -3	-4	.9999888	-9 -3	-4	.9999884	-10 -3	-4	11.2
11.3	-7 -3	-3	.9999927	-7 -3	-3	.9999924	-7 -3	-3	.9999921	-7 -3	-4	.9999917	-7 -3	-4	.9999914	-7 -3	-4	11.3
11.4	-6 -3	-3	.9999946	-6 -3	-3	.9999944	-6 -3	-3	.9999941	-5 -3	-4	.9999939	-6 -3	-4	.9999936	-6 -3	-4	11.4
11.5	-4 -3	-3	.9999960	-4 -3	-3	.9999958	-4 -3	-3	.9999956	-4 -3	-4	.9999955	-4 -3	-4	.9999953	-4 -3	-4	11.5
11.6	-4 -3	-3	.9999971	-4 -3	-3	.9999969	-4 -3	-3	.9999968	-4 -3	-4	.9999967	-4 -3	-4	.9999965	-4 -3	-4	11.6
11.7	-4 -3	-3	.9999978	-4 -3	-3	.9999978	-4 -3	-3	.9999977	-4 -3	-4	.9999975	-4 -3	-4	.9999974	-4 -3	-4	11.7
11.8	-4 -3	-3	.9999984	-4 -3	-3	.9999984	-4 -3	-3	.9999983	-4 -3	-4	.9999982	-4 -3	-4	.9999981	-4 -3	-4	11.8
11.9	-4 -3	-3	.9999989	-4 -3	-3	.9999988	-4 -3	-3	.9999987	-4 -3	-4	.9999987	-4 -3	-4	.9999986	-4 -3	-4	11.9
12.0	-4 -3	-3	.9999992	-4 -3	-3	.9999991	-4 -3	-3	.9999991	-4 -3	-4	.9999990	-4 -3	-4	.9999990	-4 -3	-4	12.0
12.1	-4 -3	-3	.9999994	-4 -3	-3	.9999994	-4 -3	-3	.9999993	-4 -3	-4	.9999993	-4 -3	-4	.9999993	-4 -3	-4	12.1
12.2	-4 -3	-3	.9999996	-4 -3	-3	.9999995	-4 -3	-3	.9999995	-4 -3	-4	.9999995	-4 -3	-4	.9999995	-4 -3	-4	12.2
12.3	-4 -3	-3	.9999997	-4 -3	-3	.9999997	-4 -3	-3	.9999997	-4 -3	-4	.9999996	-4 -3	-4	.9999996	-4 -3	-4	12.3
12.4	-4 -3	-3	.9999998	-4 -3	-3	.9999998	-4 -3	-3	.9999997	-4 -3	-4	.9999997	-4 -3	-4	.9999997	-4 -3	-4	12.4
12.5	-4 -3	-3	.9999999	-4 -3	-3	.9999998	-4 -3	-3	.9999998	-4 -3	-4	.9999998	-4 -3	-4	.9999998	-4 -3	-4	12.5
12.6	-4 -3	-3	.9999999	-4 -3	-3	.9999999	-4 -3	-3	.9999999	-4 -3	-4	.9999999	-4 -3	-4	.9999998	-4 -3	-4	12.6
12.7	-4 -3	-3	.9999999	-4 -3	-3	.9999999	-4 -3	-3	.9999999	-4 -3	-4	.9999999	-4 -3	-4	.9999999	-4 -3	-4	12.7
12.8	-4 -3	-3	1.0000000	-4 -3	-3	1.0000000	-4 -3	-3	1.0000000	-4 -3	-4	1.0000000	-4 -3	-4	.9999999	-4 -3	-4	12.8
12.9	-4 -3	-3	1.0000000	-4 -3	-3	1.0000000	-4 -3	-3	1.0000000	-4 -3	-4	1.0000000	-4 -3	-4	1.0000000	-4 -3	-4	12.9



u	p = 35.0		p = 35.2		p = 35.4		p = 35.6		p = 35.8		p = 36.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
1.9	.000000			.000000			.000000			.000000		
2.0	.000000	0		.000000	0		.000000	0		.000000	0	
2.1	.000001	+1		.000000	+1		.000000	+1		.000000	+1	
2.2	.000002	+2		.000001	+2		.000001	+2		.000001	+2	
2.3	.000005	+4		.000004	+4		.000003	+3		.000003	+3	
2.4	.000012	+8		.000011	+8		.000009	+6		.000007	+4	
2.5	.000030	+21		.000026	+20		.000023	+18		.000021	+15	
2.6	.000069	+44		.000061	+40		.000055	+35		.000049	+32	
2.7	.000152	+91		.000136	+87		.000122	+80		.000109	+72	
2.8	.000316	+183		.000285	+178		.000257	+165		.000231	+148	
2.9	.000632	+366	+8	.000572	+342	+6	.000518	+298	+6	.000469	+264	+4
3.0	.001209	+732	+10	.001101	+684	+9	.001002	+615	+9	.000911	+546	+8
3.1	.002225	+1464	+17	.002036	+1368	+18	.001861	+1224	+14	.001702	+1098	+13
3.2	.003947	+2728	+27	.003627	+2536	+23	.003332	+2250	+23	.003060	+2016	+21
3.3	.006764	+5456	+41	.006244	+5072	+38	.005761	+4512	+33	.005314	+4032	+33
3.4	.011226	+9264	+60	.010405	+8616	+57	.009641	+7716	+53	.008929	+6912	+50
3.5	.018074	+14856	+87	.016819	+13968	+82	.015646	+12576	+77	.014549	+11376	+72
3.6	.028281	+23760	+121	.026418	+22368	+114	.024670	+20160	+108	.023029	+18144	+102
3.7	.043081	+36144	+184	.040391	+33552	+165	.037856	+30240	+147	.035468	+27264	+140
3.8	.063986	+54564	+216	.060200	+50784	+205	.056620	+45720	+195	.053235	+41472	+186
3.9	.092788	+81856	+278	.087592	+76176	+264	.082660	+69120	+262	.077980	+63504	+241
4.0	.131550	+122790	+345	.124583	+115560	+331	.117947	+106800	+318	.111628	+98544	+305
4.1	.182561	+184140	+421	.173424	+172320	+408	.164694	+157680	+391	.156355	+144576	+378
4.2	.248276	+272880	+602	.236548	+228160	+486	.225305	+207360	+469	.214532	+188640	+453
4.3	.331236	+394320	+864	.316483	+312240	+667	.302297	+282240	+650	.288661	+258720	+633
4.4	.433960	+545640	+1188	.415757	+428160	+848	.398201	+388800	+830	.381276	+356160	+814
4.5	.558830	+734400	+1644	.536781	+588960	+1152	.515454	+529440	+1107	.494835	+478560	+1062
4.6	.707967	+1008000	+2232	.681725	+798720	+1584	.656273	+718560	+1515	.631598	+646080	+1458
4.7	.883104	+1377600	+3024	.852395	+1061760	+2112	.822532	+950400	+2016	.793502	+852480	+1914
4.8	1.085478	+1881600	+4080	1.050118	+1418400	+2832	1.015644	+1276800	+2712	.982044	+1156800	+2592
4.9	1.315729	+2544000	+5544	1.275641	+1944000	+3840	1.236459	+1756800	+3696	1.198176	+1593600	+3516
5.0	1.573835	+3408000	+7512	1.529057	+2592000	+5184	1.485186	+2323200	+4968	1.442218	+2121600	+4782
5.1	1.859065	+4512000	+10080	1.809759	+3456000	+7008	1.761339	+3091200	+6696	1.713804	+2846400	+6456
5.2	2.169980	+5904000	+13776	2.116428	+4512000	+9408	2.063720	+4032000	+8976	2.011860	+3729600	+8688
5.3	2.504455	+7584000	+18624	2.447055	+5712000	+12672	2.390437	+5040000	+12192	2.334607	+4608000	+11664
5.4	2.859737	+10080000	+25344	2.798991	+7584000	+17136	2.738946	+6720000	+16344	2.679612	+6144000	+15552
5.5	3.232540	+13440000	+34080	3.169036	+10080000	+22800	3.106136	+9024000	+21504	3.043855	+8240000	+20376
5.6	3.619149	+17760000	+45456	3.553541	+13440000	+30240	3.488430	+12096000	+28224	3.423831	+11088000	+27144
5.7	4.015549	+23040000	+60624	3.948536	+18144000	+40320	3.881903	+16224000	+37968	3.815668	+14880000	+36144
5.8	4.417559	+29520000	+80832	4.349860	+23712000	+53760	4.282421	+21312000	+50736	4.215260	+19440000	+48192
5.9	4.820969	+37200000	+108144	4.753300	+30720000	+71616	4.685770	+27648000	+67584	4.618399	+25200000	+64512
6.0	5.221667	+46080000	+144192	5.154719	+39480000	+95520	5.087794	+35808000	+89544	5.020909	+32496000	+85536
6.1	5.615757	+56160000	+192288	5.550178	+49200000	+127392	5.484511	+44160000	+119376	5.418774	+40320000	+113808
6.2	5.999663	+67440000	+256384	5.936039	+60144000	+170880	5.872227	+53760000	+161280	5.808242	+48480000	+151168
6.3	6.370205	+80040000	+340800	6.309049	+72960000	+228480	6.247617	+84480000	+216960	6.185921	+74880000	+201600
6.4	6.724658	+93960000	+449760	6.666403	+88224000	+302400	6.607795	+100800000	+284160	6.548847	+88800000	+268800
6.5	7.060793	+109200000	+597120	7.005784	+105960000	+403200	6.950360	+118080000	+376320	6.894532	+103200000	+358400
6.6	7.376886	+125760000	+795840	7.325380	+125280000	+537600	7.273412	+142560000	+496320	7.220990	+124800000	+475200
6.7	7.671718	+143640000	+1060800	7.623887	+146400000	+716160	7.575560	+172800000	+664320	7.526745	+151200000	+635040
6.8	7.944552	+162960000	+1401600	7.900487	+173280000	+955200	7.855906	+209600000	+895440	7.810813	+182400000	+855360
6.9	8.195098	+183840000	+1828800	8.154816	+209280000	+1273920	8.114008	+254400000	+1193760	8.072679	+220800000	+1138080
7.0	8.423468	+206400000	+2352000	8.386919	+254400000	+1708800	8.349847	+309600000	+1612800	8.312256	+268800000	+1511680
7.1	8.630121	+230880000	+3024000	8.597201	+309600000	+2284800	8.563771	+376800000	+2169600	8.529830	+328800000	+1944000
7.2	8.815810	+257280000	+3945600	8.786370	+376800000	+3024000	8.756437	+451200000	+2822400	8.726012	+391200000	+2592000
7.3	8.981525	+285720000	+5145600	8.955377	+451200000	+3945600	8.928763	+537600000	+3763200	8.901679	+460800000	+3456000
7.4	9.128432	+316320000	+6720000	9.105364	+537600000	+5184000	9.081860	+638400000	+4963200	9.057914	+542400000	+4584000
7.5	9.257825	+349920000	+8784000	9.237608	+638400000	+6883200	9.216986	+758400000	+6556800	9.195955	+645600000	+6144000



u	p = 36.0		p = 36.2			p = 36.4			p = 36.6			p = 36.8			p = 37.0			u
	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	
1.9																		1.9
2.0			0000000			0000000			0000000			0000000			0000000			2.0
2.1	0		0000000	0		0000000	0		0000000	0		0000000	0		0000000	0		2.1
2.2	+1		0000001	+1		0000001	+1		0000001	+1		0000001	+1		0000001	+1		2.2
2.3	+3		0000002	+3		0000002	+3		0000002	+3		0000001	+2		0000001	+1		2.3
2.4	+5		0000006	+5		0000005	+5		0000004	+3		0000004	+3		0000003	+2		2.4
2.5	+13		0000014	+13		0000013	+10		0000011	+9		0000010	+8		0000009	+7		2.5
2.6	+25		0000034	+25		0000031	+21		0000027	+19		0000024	+18		0000021	+17		2.6
2.7	+52		0000078	+47		0000074	+43		0000062	+39		0000056	+34		0000050	+31		2.7
2.8	+97		0000169	+87		0000152	+80		0000136	+74		0000122	+68		0000110	+64		2.8
2.9	+173	+4	0000347	+150		0000314	+146		0000284	+133		0000256	+123		0000231	+118		2.9
3.0	+296	+7	0000685	+374	+8	0000622	+284	+6	0000565	+234	+5	0000513	+215	+5	0000465	+190	+4	3.0
3.1	+492	+11	0001297	+486	+10	0001184	+423	+10	0001080	+393	+9	0000985	+364	+8	0000898	+337	+7	3.1
3.2	+780	+18	0002365	+728	+17	0002168	+650	+15	0001988	+532	+14	0001821	+489	+13	0001668	+450	+12	3.2
3.3	+1198	+28	0004161	+1263	+27	0003832	+941	+25	0003528	+815	+23	0003247	+723	+22	0002988	+662	+20	3.3
3.4	+1780	+43	0007080	+1877	+40	0006548	+1578	+38	0006055	+1483	+35	0005596	+1395	+33	0005170	+1313	+31	3.4
3.5	+2593	+64	0011676	+2422	+60	0010842	+2291	+56	0010065	+2166	+53	0009340	+2046	+49	0008665	+1930	+46	3.5
3.6	+3577	+91	0018694	+3399	+85	0017427	+3226	+80	0016241	+3061	+76	0015130	+2903	+71	0014090	+2733	+67	3.6
3.7	+4854	+125	0029111	+4691	+119	0027238	+4415	+112	0025478	+4296	+106	0023823	+4007	+100	0022268	+3815	+95	3.7
3.8	+6419	+168	0044159	+6137	+160	0041464	+8175	+152	0038921	+5623	+144	0036523	+5375	+137	0034261	+5138	+130	3.8
3.9	+8242	+220	0065344	+7925	+210	0061565	+10616	+200	0057987	+7813	+191	0054598	+7023	+182	0051392	+6735	+173	3.9
4.0	+10333	+280	0094454	+9873	+268	0089282	+13620	+257	0084366	+10277	+246	0079696	+8840	+235	0075261	+8113	+225	4.0
4.1	+12644	+348	0133537	+12249	+335	0126619	+16860	+322	0120022	+14478	+309	0113734	+11109	+297	0107742	+10786	+284	4.1
4.2	+15104	+420	0184869	+14686	+408	0175816	+19274	+393	0167156	+16966	+374	0158875	+13469	+365	0150959	+13064	+362	4.2
4.3	+17635	+502	0250887	+17210	+485	0239287	+21676	+463	0228156	+19364	+450	0217478	+15947	+439	0207240	+15691	+424	4.3
4.4	+20123	+580	0334115	+19710	+564	0319544	+23925	+543	0305520	+21880	+532	0292028	+18463	+516	0279052	+18047	+500	4.4
4.5	+22458	+657	0437053	+22077	+641	0419096	+26190	+625	0401764	+24299	+609	0385041	+20903	+593	0368911	+20503	+577	4.5
4.6	+24514	+729	0562068	+24133	+713	0540338	+28347	+698	0519307	+26498	+682	0498957	+23146	+666	0479273	+22787	+661	4.6
4.7	+26186	+791	0711266	+26312	+776	0685427	+30642	+762	0660349	+28398	+748	0636019	+25972	+733	0612422	+24770	+718	4.7
4.8	+27310	+840	0886376	+27145	+827	0856158	+26085	+815	0826754	+26770	+802	0798153	+26560	+789	0770341	+26326	+776	4.8
4.9	+27848	+872	1088631	+27790	+863	1053854	+27713	+853	1019929	+27618	+843	0986847	+27506	+839	0954596	+27379	+821	4.9
5.0	+27721	+886	1318676	+27778	+880	1279263	+27813	+873	1240722	+27832	+865	1203047	+27830	+858	1166230	+27808	+840	5.0
5.1	+26884	+850	1576497	+27063	+857	1532485	+27220	+873	1489347	+27354	+869	1447077	+27470	+861	1405672	+27366	+850	5.1
5.2	+26347	+833	1861381	+26641	+833	1812927	+26916	+863	1765326	+26171	+859	1718577	+26046	+854	1672680	+26019	+850	5.2
5.3	+25129	+805	2171906	+26338	+809	2119285	+26025	+819	2067476	+24294	+815	2016483	+24043	+818	1966307	+23973	+820	5.3
5.4	+20302	+738	2505960	+20208	+746	2449568	+21299	+739	2393920	+21771	+730	2339031	+22225	+765	2284907	+22660	+770	5.4
5.5	+18954	+654	2860840	+17844	+685	2801150	+18118	+675	2742135	+18677	+685	2683804	+19222	+694	2626167	+18751	+709	5.5
5.6	+13196	+566	3233255	+13847	+569	3170850	+14190	+582	3109027	+15119	+595	3047799	+15736	+607	2987178	+16840	+618	5.6
5.7	+8158	+447	3619517	+9850	+468	3555039	+10593	+478	3491038	+11209	+493	3427530	+11877	+507	3364529	+12536	+591	5.7
5.8	+4971	+332	4015629	+6690	+349	3949761	+6395	+366	3884258	+7087	+383	3819138	+7759	+399	3754416	+8447	+414	5.8
5.9	+773	+214	4417421	+1476	+232	4350868	+2190	+250	4284565	+2893	+267	4218529	+3684	+284	4152778	+4284	+302	5.9
6.0	-3308	+197	4820689	-2693	+115	4754155	-1954	+133	4687754	-1971	+151	4621504	-588	+169	4555424	+102	+187	6.0
6.1	-7160	-95	5221324	-6591	+2	5155488	-5894	+20	5089672	-8251	+38	5023894	-4602	+56	4958172	-3948	+74	6.1
6.2	-10684	-121	5615428	-10115	-103	5550927	-9598	-86	5486339	-8951	-89	5421682	-8355	-92	5356972	-7749	-85	6.2
6.3	-13800	-216	5999417	-13305	-200	5936828	-12768	-184	5874055	-12280	-186	5811115	-11329	-192	5748023	-11219	-135	6.3
6.4	-16464	-299	6370101	-16041	-284	6309931	-16614	-270	6249491	-16175	-256	6188796	-14723	-241	6127861	-14260	-206	6.4
6.5	-18612	-368	6724744	-18255	-356	6667420	-17444	-343	6609752	-17889	-330	6551754	-17219	-318	6493439	-16838	-304	6.5
6.6	-20264	-424	7061102	-20021	-414	7006965	-19786	-403	6952425	-18498	-392	6897493	-18218	-381	6842179	-18019	-370	6.6
6.7	-21411	-466	7377439	-21255	-438	7326744	-21093	-449	7275600	-20899	-440	7224016	-20701	-431	7172000	-20493	-423	6.7
6.8	-22083	-494	7672521	-21985	-458	7625440	-21813	-482	7577876	-21898	-475	7529838	-21699	-468	7481332	-21563	-461	6.8
6.9	-22311	-510	7945600	-22305	-506	7902223	-22287	-502	7858344	-22255	-477	7813968	-22215	-492	7769101	-22162	-486	6.9
7.0	-22145	-515	8196374	-22202	-519	8156719	-22249	-510	8116554	-22244	-506	8075883	-22211	-503	8034708	-22234	-500	7.0
7.1	-21637	-509	8424946	-21748	-508	8388966	-21849	-507	8352480	-21843	-506	8315487	-21825	-504	8277991	-21802	-502	7.1
7.2	-20845	-495	8631770	-21265	-498	8599364	-21145	-496	8566463	-21286	-496	8533066	-21429	-498	8499172	-21549	-495	7.2
7.3	-19324	-475	8817595	-20013	-476	8788617	-20197	-478	8759160	-20872	-479	8729225	-20543	-490	8698811	-20709	-491	7.3
7.4	-18693	-449	8983408	-18846	-451	8957673	-18053	-454	8931485	-19236	-456	8904842	-19480	-458	8877741	-19655	-459	7.4
7.5	-17321	-419	9130375	-17649	-422	9107676	-17777	-425	9084551	-18000	-428	9060999	-18220	-431	9037016	-18437	-433	7.5







u	p = 36.0		p = 36.2		p = 36.4		p = 36.6		p = 36.8		p = 37.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
7.5	-17321 +71	-419	.9130375	-17549 +75	-422	.9107676	-17777 +89	-425	.9084551	-18000 +95	-428	.9060999	-18220 +101	-431	.9037016	-18437 +110	-433	7.5
7.6	-15939 +81	-388	.9259793	-15177 +41	-390	.9239902	-15412 +44	-394	.9219617	-15648 +50	-397	.9198936	-15879 +59	-400	.9177854	-16109 +65	-404	7.6
7.7	-14526 -5	-353	.9373034	-14784 -4	-357	.9355716	-15003 +3	-361	.9338037	-15242 +13	-364	.9319994	-15479 +17	-368	.9301583	-15718 +25	-372	7.7
7.8	-13119 -37	-319	.9471511	-13365 -28	-323	.9456527	-13691 -22	-327	.9441215	-13925 -25	-331	.9425573	-14092 -18	-335	.9409596	-14298 -12	-339	7.8
7.9	-11748 -83	-286	.9556633	-11974 -56	-290	.9543747	-12201 -55	-294	.9530568	-12433 -43	-298	.9517090	-12681 -45	-302	.9503311	-12892 -40	-308	7.9
8.0	-10433 -76	-253	.9629781	-10648 -72	-257	.9618766	-10887 -89	-261	.9607488	-11084 -89	-265	.9595946	-11305 -83	-269	.9584134	-11525 -81	-273	8.0
8.1	-9108 -85	-223	.9692281	-9297 -85	-227	.9682918	-9599 -93	-231	.9673324	-9804 -92	-234	.9663497	-10012 -93	-238	.9653431	-10221 -94	-242	8.1
8.2	-7842 -95	-195	.9745384	-8029 -95	-198	.9737471	-8416 -92	-202	.9729356	-8606 -92	-205	.9721036	-8798 -91	-209	.9712507	-8992 -90	-213	8.2
8.3	-6642 -99	-169	.9790258	-7154 -97	-172	.9783608	-7327 -97	-175	.9776782	-7509 -98	-179	.9769777	-7675 -98	-182	.9762591	-7854 -95	-185	8.3
8.4	-5525 -97	-145	.9827978	-6179 -95	-148	.9822418	-6332 -99	-151	.9816708	-6499 -99	-154	.9810843	-6659 -98	-157	.9804821	-6811 -99	-160	8.4
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8.6	-3607 -91	-105	.9885761	-4517 -91	-107	.9881936	-4699 -93	-110	.9878002	-4853 -92	-112	.9873955	-4990 -93	-115	.9869794	-5090 -94	-117	8.6
8.7	-2721 -88	-88	.9907486	-3827 -88	-91	.9904337	-3993 -88	-93	.9901097	-4043 -88	-95	.9897761	-4154 -89	-97	.9894328	-4267 -90	-99	8.7
8.8	-1932 -88	-74	.9925384	-3222 -86	-76	.9922805	-3315 -81	-78	.9920149	-3410 -80	-80	.9917413	-3507 -83	-82	.9914595	-3606 -84	-84	8.8
8.9	-1269 -79	-62	.9940060	-2697 -73	-63	.9937958	-2777 -74	-65	.9935791	-2858 -78	-66	.9933558	-2943 -77	-68	.9931256	-3028 -79	-70	8.9
9.0	-818 -64	-51	.9952039	-2245 -65	-52	.9950334	-2315 -67	-54	.9948575	-2385 -69	-55	.9946760	-2458 -79	-56	.9944889	-2526 -71	-58	9.0
9.1	-684 -57	-42	.9961773	-1851 -58	-43	.9960395	-1917 -59	-44	.9958974	-1978 -61	-45	.9957506	-2038 -62	-47	.9955993	-2102 -63	-48	9.1
9.2	-564 -50	-34	.9969646	-1531 -52	-35	.9968539	-1582 -52	-36	.9967395	-1631 -53	-37	.9966214	-1683 -54	-38	.9964995	-1738 -56	-39	9.2
9.3	-454 -44	-28	.9975988	-1258 -45	-29	.9975101	-1235 -45	-29	.9974185	-1285 -47	-30	.9973239	-1332 -48	-31	.9972261	-1382 -49	-32	9.3
9.4	-354 -38	-23	.9981074	-1028 -38	-23	.9980368	-1059 -40	-24	.9979637	-1093 -41	-25	.9978882	-1129 -42	-25	.9978102	-1167 -43	-26	9.4
9.5	-268 -32	-18	.9985137	-831 -33	-19	.9984576	-858 -34	-19	.9983996	-888 -35	-20	.9983396	-918 -38	-20	.9982776	-949 -38	-21	9.5
9.6	-194 -28	-15	.9988369	-671 -28	-15	.9987926	-695 -29	-15	.9987467	-718 -30	-16	.9986992	-742 -30	-18	.9986501	-768 -31	-17	9.6
9.7	-126 -23	-12	.9990930	-540 -24	-12	.9990581	-559 -24	-13	.9990220	-579 -25	-13	.9989846	-600 -26	-13	.9989458	-619 -27	-14	9.7
9.8	-64 -19	-9	.9992951	-432 -20	-10	.9992677	-447 -20	-10	.9992394	-463 -21	-10	.9992100	-479 -22	-10	.9991796	-496 -23	-11	9.8
9.9	-32 -16	-7	.9994540	-344 -18	-8	.9994326	-350 -17	-8	.9994105	-370 -18	-8	.9993876	-384 -19	-6	.9993638	-398 -19	-9	9.9
10.0	-263 -14	-6	.9995785	-274 -14	-6	.9995619	-284 -14	-6	.9995446	-293 -15	-6	.9995268	-305 -18	-7	.9995082	-314 -10	-7	10.0
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10.2	-164 -9	-4	.9997512	-170 -9	-4	.9997413	-177 -9	-4	.9997309	-182 -10	-4	.9997202	-190 -10	-4	.9997091	-196 -10	-4	10.2
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10.8	-36 -3	-3	.9999525	-39 -3	-3	.9999505	-39 -3	-3	.9999485	-41 -4	-3	.9999464	-43 -4	-3	.9999442	-45 -4	-3	10.8
10.9	-27 -3	-3	.9999643	-28 -3	-3	.9999628	-29 -3	-3	.9999613	-31 -3	-3	.9999597	-32 -3	-3	.9999580	-33 -3	-3	10.9
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11.2	-12 -3	-3	.9999851	-13 -3	-3	.9999845	-13 -3	-3	.9999839	-14 -3	-3	.9999832	-14 -3	-3	.9999825	-15 -3	-3	11.2
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11.4	-7 -3	-3	.9999918	-7 -3	-3	.9999915	-8 -3	-3	.9999911	-8 -3	-3	.9999907	-8 -3	-3	.9999904	-9 -3	-3	11.4
11.5	-5 -3	-3	.9999939	-5 -3	-3	.9999937	-6 -3	-3	.9999934	-6 -3	-3	.9999931	-6 -3	-3	.9999929	-6 -3	-3	11.5
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11.7	-3 -3	-3	.9999967	-3 -3	-3	.9999966	-3 -3	-3	.9999964	-4 -3	-3	.9999963	-4 -3	-3	.9999961	-4 -3	-3	11.7
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11.9	-3 -3	-3	.9999982	-3 -3	-3	.9999982	-3 -3	-3	.9999981	-3 -3	-3	.9999980	-3 -3	-3	.9999979	-3 -3	-3	11.9
12.0	-3 -3	-3	.9999987	-3 -3	-3	.9999987	-3 -3	-3	.9999986	-3 -3	-3	.9999985	-3 -3	-3	.9999985	-3 -3	-3	12.0
12.1	-3 -3	-3	.9999991	-3 -3	-3	.9999990	-3 -3	-3	.9999990	-3 -3	-3	.9999990	-3 -3	-3	.9999989	-3 -3	-3	12.1
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12.3	-3 -3	-3	.9999995	-3 -3	-3	.9999995	-3 -3	-3	.9999995	-3 -3	-3	.9999994	-3 -3	-3	.9999994	-3 -3	-3	12.3
12.4	-3 -3	-3	.9999996	-3 -3	-3	.9999996	-3 -3	-3	.9999996	-3 -3	-3	.9999996	-3 -3	-3	.9999996	-3 -3	-3	12.4
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12.6	-3 -3	-3	.9999998	-3 -3	-3	.9999998	-3 -3	-3	.9999998	-3 -3	-3	.9999998	-3 -3	-3	.9999998	-3 -3	-3	12.6
12.7	-3 -3	-3	.9999999	-3 -3	-3	.9999999	-3 -3	-3	.9999999	-3 -3	-3	.9999999	-3 -3	-3	.9999999	-3 -3	-3	12.7
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12.9	-3 -3	-3	.9999999	-3 -3	-3	.9999999	-3 -3	-3	.9999999	-3 -3	-3	.9999999	-3 -3	-3	.9999999	-3 -3	-3	12.9
13.0	-3 -3	-3	1.0000000	-3 -3	-3	1.0000000	-3 -3	-3	1.0000000	-3 -3	-3	1.0000000	-3 -3	-3	.9999999	-3 -3	-3	13.0
13.1	-3 -3	-3	1.0000000	-3 -3	-3	1.0000000	-3 -3	-3	1.0000000	-3 -3	-3	1.0000000	-3 -3	-3	1.0000000	-3 -3	-3	13.1



u	p = 37.0		p = 37.2		p = 37.4		p = 37.6		p = 37.8		p = 38.0	
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
2.0	.0000000											
2.1	.0000000											
2.2	.0000000	+1		.0000000	+1		.0000000	+1		.0000000	+1	
2.3	.0000001	+1		.0000001	+1		.0000001	+1		.0000001	+1	
2.4	.0000003	+3		.0000003	+3		.0000003	+3		.0000002	+3	
2.5	.0000009	+7		.0000008	+6		.0000007	+5		.0000005	+5	
2.6	.0000021	+17		.0000019	+14		.0000017	+13		.0000015	+11	
2.7	.0000050	+31		.0000044	+30		.0000040	+26		.0000035	+24	
2.8	.0000110	+61		.0000099	+55		.0000089	+50		.0000079	+47	
2.9	.0000231	+113		.0000209	+103		.0000188	+96		.0000170	+88	
3.0	.0000465	+199	+4	.0000422	+184	+4	.0000383	+168	+4	.0000347	+156	+4
3.1	.0000898	+357	+7	.0000819	+312	+7	.0000746	+290	+6	.0000680	+267	+6
3.2	.0001668	+72	+12	.0001528	+71	+11	.0001399	+68	+10	.0001280	+64	+10
3.3	.0002988	+102	+20	.0002748	+98	+18	.0002526	+88	+17	.0002322	+82	+16
3.4	.0005170	+188	+31	.0004776	+182	+26	.0004409	+175	+27	.0004070	+165	+25
3.5	.0008665	+273	+46	.0008036	+260	+43	.0007449	+247	+40	.0006904	+231	+38
3.6	.0014090	+387	+67	.0013117	+359	+63	.0012208	+329	+59	.0011357	+299	+56
3.7	.0022268	+518	+95	.0020808	+483	+89	.0019437	+453	+84	.0018151	+417	+79
3.8	.0034261	+677	+130	.0032129	+630	+123	.0030119	+587	+117	.0028227	+541	+110
3.9	.0051392	+874	+173	.0048358	+827	+165	.0045489	+780	+157	.0042777	+726	+149
4.0	.0075261	+1120	+225	.0071051	+1052	+215	.0067056	+978	+203	.0063266	+904	+196
4.1	.0107742	+1425	+284	.0102036	+1357	+273	.0096602	+1285	+262	.0091429	+1201	+251
4.2	.0150959	+1790	+352	.0143395	+1727	+339	.0136169	+1600	+328	.0129269	+1495	+313
4.3	.0207240	+2225	+434	.0197426	+2152	+410	.0188022	+1917	+396	.0179014	+1797	+382
4.4	.0279052	+2730	+500	.0266577	+2627	+485	.0254586	+2423	+470	.0243066	+2283	+455
4.5	.0368911	+3315	+577	.0353357	+3152	+561	.0338365	+2930	+546	.0323919	+2737	+531
4.6	.0479273	+3980	+661	.0460241	+3727	+635	.0441844	+3437	+626	.0424067	+3244	+603
4.7	.0612422	+4725	+718	.0589544	+4452	+704	.0567369	+4044	+689	.0545884	+3851	+676
4.8	.0770341	+5550	+778	.0743305	+5227	+763	.0717033	+4751	+750	.0691510	+4558	+738
4.9	.0954596	+6465	+841	.0923166	+6052	+810	.0892546	+5458	+798	.0862725	+5265	+787
5.0	.1166230	+7470	+849	.1130262	+6927	+841	.1095134	+6265	+832	.1060838	+6072	+823
5.1	.1405672	+8585	+859	.1365126	+7852	+854	.1325435	+7072	+848	.1286591	+6879	+841
5.2	.1672680	+9790	+850	.1627633	+8827	+847	.1583433	+7879	+845	.1540077	+7686	+841
5.3	.1966307	+11095	+820	.1916952	+9902	+821	.1868417	+8686	+822	.1820704	+8493	+822
5.4	.2284907	+12580	+770	.2231553	+11077	+775	.2178973	+9593	+779	.2127173	+10400	+782
5.5	.2626167	+14255	+702	.2569232	+12352	+710	.2513007	+10500	+717	.2457499	+11307	+724
5.6	.2987178	+16130	+618	.2927175	+13727	+629	.2867801	+11507	+639	.2809067	+12214	+849
5.7	.3364529	+18205	+521	.3302049	+15202	+534	.3240104	+12614	+547	.3178705	+13121	+660
5.8	.3754416	+19480	+414	.3690109	+16777	+430	.3626231	+13821	+444	.3562798	+14128	+459
5.9	.4152778	+20955	+302	.4087328	+18452	+318	.4022197	+15128	+335	.3957400	+15135	+331
6.0	.4555424	+22630	+187	.4489530	+20227	+204	.4423840	+16573	+221	.4358372	+16680	+238
6.1	.4958172	+24505	+74	.4892523	+22102	+91	.4826966	+18158	+109	.4761517	+17865	+126
6.2	.5356972	+26580	-35	.5292229	+24077	-119	.5227467	+19873	0	.5162705	+19780	+17
6.3	.5748023	+28855	-135	.5684796	+26152	-110	.5621449	+21728	-103	.5558000	+21645	-86
6.4	.6127861	+31330	-226	.6066699	+28327	-211	.6005327	+23773	-188	.5943759	+23602	-181
6.5	.6493439	+33905	-304	.6434819	+30602	-291	.6375908	+25998	-277	.6316720	+25865	-284
6.6	.6842179	+36580	-670	.6786495	+32977	-358	.6730453	+28373	-347	.6674064	+28242	-335
6.7	.7172000	+39355	-422	.7119563	+35452	-412	.7066713	+30848	-403	.7013460	+30727	-393
6.8	.7481332	+42230	-461	.7432365	+38027	-453	.7382946	+33423	-445	.7333081	+33302	-437
6.9	.7769101	+45205	-486	.7723748	+40602	-481	.7677914	+36098	-475	.7631606	+35981	-469
7.0	.8034708	+48280	-560	.7993034	+43277	-498	.7950865	+38873	-492	.7908203	+38766	-488
7.1	.8277991	+51355	-502	.8239992	+46052	-500	.8201493	+41748	-494	.8162496	+41641	-495
7.2	.8499172	+54430	-405	.8464783	+48927	-605	.8429900	+44723	-498	.8394522	+44614	-493
7.3	.8698811	+57505	-481	.8667915	+51902	-481	.8636538	+47898	-482	.8604680	+47791	-482
7.4	.8877741	+60580	-450	.8850180	+54977	-461	.8822159	+51173	-463	.8793675	+51066	-464
7.5	.9037016	+63655	-433	.9012600	+58052	-436	.8987748	+54448	-438	.8962458	+54341	-440
7.6	.9177854	+66730	-404	.9156369	+61327	-407	.9134476	+57823	-410	.9112175	+57716	-415
7.7	.9301583	+69805	-379	.9282800	+64702	-373	.9263642	+61298	-379	.9244105	+61181	-382
7.8	.9409596	+72880	-330	.9393280	+68177	-340	.9376622	+64873	-346	.9359618	+64766	-350
7.9	.9503311	+75955	-306	.9489226	+71652	-313	.9474832	+68448	-313	.9460125	+68341	-317
8.0	.9584134	+79030	-273	.9572049	+75127	-277	.9559687	+72023	-281	.9547044	+71916	-285



u	p = 38.0		p = 38.2		p = 38.4		p = 38.6		p = 38.8		p = 39.0		u
	$I(u, p)$	$\delta_u^2$ $\delta_p^2$	$I(u, p)$	$\delta_u^2$ $\delta_p^2$	$I(u, p)$	$\delta_u^2$ $\delta_p^2$	$I(u, p)$	$\delta_u^2$ $\delta_p^2$	$I(u, p)$	$\delta_u^2$ $\delta_p^2$	$I(u, p)$	$\delta_u^2$ $\delta_p^2$	
2.0													2.0
2.1													2.1
2.2	0		-0.000000	0	-0.000000		-0.000000		-0.000000		-0.000000		2.2
2.3	+1		-0.000000	+1	-0.000000		-0.000000		-0.000000		-0.000000		2.3
2.4	+2		-0.000001	+2	-0.000001		-0.000001		-0.000001		-0.000001		2.4
2.5	+4		-0.000004	+4	-0.000004		-0.000003		-0.000003		-0.000002		2.5
2.6	+9		-0.000010	+9	-0.000009		-0.000008		-0.000007		-0.000006		2.6
2.7	+20		-0.000025	+20	-0.000022		-0.000020		-0.000018		-0.000016		2.7
2.8	+49		-0.000057	+49	-0.000051		-0.000046		-0.000041		-0.000037		2.8
2.9	+112		-0.000124	+112	-0.000112		-0.000101		-0.000091		-0.000082		2.9
3.0	+259		-0.000258	+259	-0.000233		-0.000211		-0.000191		-0.000173		3.0
3.1	+58	+5	-0.000512	+58	-0.000466		-0.000424		-0.000385		-0.000350		3.1
3.2	+131	+9	-0.000978	+131	-0.000894		-0.000817		-0.000746		-0.000681		3.2
3.3	+294	+14	-0.001799	+294	-0.001651		-0.001515		-0.001390		-0.001274		3.3
3.4	+654	+22	-0.003194	+654	-0.002944		-0.002712		-0.002498		-0.002300		3.4
3.5	+1499	+33	-0.005484	+1499	-0.005075		-0.004696		-0.004343		-0.004016		3.5
3.6	+3394	+49	-0.009128	+3394	-0.008481		-0.007877		-0.007314		-0.006789		3.6
3.7	+7669	+71	-0.014752	+7669	-0.013758		-0.012827		-0.011954		-0.011138		3.7
3.8	+17124	+99	-0.023189	+17124	-0.021704		-0.020308		-0.018995		-0.017762		3.8
3.9	+38449	+135	-0.035506	+38449	-0.033348		-0.031311		-0.029389		-0.027577		3.9
4.0	+87094	+178	-0.053034	+87094	-0.049975		-0.047078		-0.044336		-0.041740		4.0
4.1	+194549	+230	-0.077375	+194549	-0.073144		-0.069124		-0.065305		-0.061679		4.1
4.2	+441163	+289	-0.110401	+441163	-0.104683		-0.099232		-0.094037		-0.089088		4.2
4.3	+991311	+365	-0.154229	+991311	-0.146670		-0.139441		-0.132531		-0.125927		4.3
4.4	+2216833	+427	-0.211179	+2216833	-0.201395		-0.192009		-0.183010		-0.174384		4.4
4.5	+4946499	+501	-0.283705	+4946499	-0.271291		-0.259350		-0.247866		-0.236825		4.5
4.6	+10992092	+575	-0.374304	+10992092	-0.358856		-0.343952		-0.329579		-0.315722		4.6
4.7	+24123127	+645	-0.485416	+24123127	-0.466541		-0.448282		-0.430624		-0.413553		4.7
4.8	+53426083	+709	-0.619304	+53426083	-0.596644		-0.574666		-0.553355		-0.532699		4.8
4.9	+116690649	+763	-0.777931	+116690649	-0.751184		-0.725175		-0.699891		-0.675321		4.9
5.0	+257489719	+803	-0.962848	+257489719	-0.931783		-0.901501		-0.871991		-0.843242		5.0
5.1	+56727553	+827	-1.175079	+56727553	-1.139558		-1.104849		-1.070943		-1.037832		5.1
5.2	+124237388	+834	-1.415045	+124237388	-1.375031		-1.335842		-1.297470		-1.259911		5.2
5.3	+27362322	+821	-1.682494	+27362322	-1.638064		-1.594451		-1.551653		-1.509666		5.3
5.4	+59424633	+788	-1.976477	+59424633	-1.927822		-1.879558		-1.832886		-1.786606		5.4
5.5	+129150592	+738	-2.295347	+129150592	-2.242771		-2.190942		-2.139863		-2.089538		5.5
5.6	+28191555	+667	-2.636794	+28191555	-2.580710		-2.525308		-2.470597		-2.416583		5.6
5.7	+6155771	+533	-2.997917	+6155771	-2.938827		-2.880342		-2.822471		-2.765224		5.7
5.8	+13411828	+487	-3.375309	+13411828	-3.313795		-3.252793		-3.192317		-3.132378		5.8
5.9	+2917743	+392	-3.765177	+2917743	-3.701876		-3.638986		-3.576522		-3.514498		5.9
6.0	+6385527	+272	-4.163466	+6385527	-4.099051		-4.034940		-3.971148		-3.907691		6.0
6.1	+139612	+160	-4.565994	+139612	-4.501151		-4.436502		-4.372062		-4.307849		6.1
6.2	+29424	+61	-4.968586	+29424	-4.903993		-4.839483		-4.775074		-4.710782		6.2
6.3	+6372	-04	-5.367199	+6372	-5.303502		-5.239784		-5.176062		-5.112351		6.3
6.4	+139426	-160	-5.758032	+139426	-5.693833		-5.633516		-5.571094		-5.508585		6.4
6.5	+3047475	-236	-6.137626	+3047475	-6.077466		-6.017098		-5.956536		-5.895796		6.5
6.6	+6672328	-310	-6.502937	+6672328	-6.445283		-6.387343		-6.329131		-6.270659		6.6
6.7	+1449232	-372	-6.851387	+1449232	-6.796626		-6.741515		-6.686065		-6.630287		6.7
6.8	+3149719	-420	-7.180897	+3149719	-7.129334		-7.077369		-7.025012		-6.972270		6.8
6.9	+6849549	-450	-7.489895	+6849549	-7.441752		-7.393167		-7.344149		-7.294704		6.9
7.0	+1472233	-478	-7.777310	+1472233	-7.732726		-7.687675		-7.642161		-7.596190		7.0
7.1	+3192328	-489	-8.042544	+3192328	-8.001584		-7.960142		-7.918220		-7.875824		7.1
7.2	+6922042	-490	-8.285436	+6922042	-8.248095		-8.210268		-8.171956		-8.133162		7.2
7.3	+1481433	-492	-8.506212	+1481433	-8.472426		-8.438159		-8.403411		-8.368184		7.3
7.4	+3192054	-488	-8.705433	+3192054	-8.675087		-8.644272		-8.612990		-8.581238		7.4
7.5	+694967	-444	-8.883937	+694967	-8.856874		-8.829362		-8.801401		-8.772989		7.5
7.6	+1482238	-418	-9.042782	+1482238	-9.018813		-8.994421		-8.969604		-8.944358		7.6
7.7	+3196879	-339	-9.183188	+3196879	-9.162104		-9.140624		-9.118747		-9.096469		7.7
7.8	+694781	-357	-9.306490	+694781	-9.288064		-9.269274		-9.250116		-9.230587		7.8
7.9	+148054	-325	-9.414083	+148054	-9.398084		-9.381752		-9.365085		-9.348078		7.9
8.0	+3192650	-293	-9.507390	+3192650	-9.493584		-9.479479		-9.465069		-9.450352		8.0



$u$	$p = 37.0$				$p = 37.2$				$p = 37.4$				$p = 37.6$				$p = 37.8$				$p = 38.0$	
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$I(u, p)$	$u$
8.0	.9584134	-11026 51	-273		.9572049	-11749 65	-277		.9559687	-11973 53	-281		.9547044	-12198 48	-285		.9534116	-12424 45	-289		.9520899	8.0
8.1	.9653431	-10221 76	-242		.9643123	-10431 78	-248		.9632569	-10643 73	-250		.9621765	-10856 70	-253		.9610708	-11071 70	-257		.9599394	8.1
8.2	.9712507	-8992 90	-213		.9703766	-9189 88	-218		.9694808	-9388 85	-220		.9685630	-9596 85	-223		.9676229	-9791 82	-227		.9666600	8.2
8.3	.9762591	-7854 95	-185		.9755220	-8036 94	-189		.9747659	-8216 95	-192		.9739907	-8402 92	-195		.9731959	-8589 92	-199		.9723812	8.3
8.4	.9804821	-6811 100	-160		.9798639	-6974 98	-163		.9792294	-7143 98	-167		.9785782	-7311 97	-170		.9779100	-7482 97	-173		.9772245	8.4
8.5	.9840240	-5855 98	-138		.9835084	-6014 99	-140		.9829786	-6162 99	-143		.9824346	-6315 99	-148		.9818759	-6469 99	-149		.9813024	8.5
8.6	.9869794	-5020 94	-117		.9865515	-5150 98	-120		.9861116	-5284 98	-122		.9856595	-5420 97	-125		.9851949	-5559 97	-128		.9847175	8.6
8.7	.9894328	-4287 90	-99		.9890796	-4333 91	-102		.9887162	-4501 90	-104		.9883424	-4631 93	-106		.9879580	-4743 94	-108		.9875628	8.7
8.8	.9914595	-3606 94	-84		.9911694	-3707 95	-86		.9908707	-3819 95	-88		.9905632	-3914 95	-90		.9902468	-4022 94	-92		.9899213	8.8
8.9	.9931256	-3028 79	-70		.9928885	-3116 79	-72		.9926442	-3205 81	-73		.9923926	-3298 81	-75		.9921334	-3390 88	-77		.9918666	8.9
9.0	.9944889	-2529 71	-58		.9942960	-2604 72	-60		.9940972	-2689 73	-61		.9938922	-2769 74	-63		.9936810	-2841 75	-64		.9934634	9.0
9.1	.9955993	-2102 63	-48		.9954431	-2166 65	-49		.9952820	-2231 66	-50		.9951158	-2297 67	-52		.9949445	-2367 68	-53		.9947679	9.1
9.2	.9964995	-1738 58	-39		.9963736	-1789 57	-40		.9962437	-1845 58	-41		.9961097	-1902 59	-43		.9959713	-1961 59	-44		.9958286	9.2
9.3	.9972261	-1425 49	-32		.9971252	-1473 50	-33		.9970209	-1519 51	-34		.9969132	-1568 53	-35		.9968020	-1616 54	-36		.9966873	9.3
9.4	.9978102	-1167 43	-26		.9977295	-1204 44	-27		.9976462	-1244 45	-28		.9975601	-1284 48	-28		.9974711	-1325 47	-29		.9973792	9.4
9.5	.9982776	-949 38	-21		.9982134	-980 38	-22		.9981471	-1012 39	-22		.9980786	-1047 39	-23		.9980077	-1081 40	-24		.9979345	9.5
9.6	.9986501	-768 31	-17		.9985993	-794 32	-17		.9985468	-822 33	-18		.9984924	-848 34	-18		.9984362	-877 35	-19		.9983781	9.6
9.7	.9989458	-619 27	-14		.9989058	-641 27	-14		.9988643	-662 28	-14		.9988214	-686 29	-15		.9987770	-709 30	-15		.9987311	9.7
9.8	.9991796	-496 23	-11		.9991482	-514 23	-11		.9991156	-538 24	-11		.9990818	-559 25	-12		.9990469	-589 26	-12		.9990108	9.8
9.9	.9993638	-398 19	-9		.9993392	-411 20	-9		.9993136	-434 20	-9		.9992872	-449 21	-9		.9992599	-477 21	-10		.9992315	9.9
10.0	.9995082	-314 18	-7		.9994891	-327 16	-7		.9994692	-349 17	-7		.9994486	-369 17	-7		.9994272	-383 18	-8		.9994051	10.0
10.1	.9996212	-261 13	-6		.9996063	-269 13	-6		.9995908	-285 13	-6		.9995748	-298 14	-8		.9995582	-315 15	-6		.9995410	10.1
10.2	.9997091	-198 10	-4		.9996976	-204 11	-4		.9996856	-211 11	-4		.9996732	-219 11	-5		.9996604	-223 12	-5		.9996471	10.2
10.3	.9997774	-158 8			.9997685	-160 8			.9997593	-168 9	-4		.9997497	-173 9	-4		.9997398	-179 10	-4		.9997295	10.3
10.4	.9998301	-120 7			.9998233	-125 7			.9998162	-130 8			.9998089	-136 8			.9998013	-141 8			.9997934	10.4
10.5	.9998708	-95 6			.9998656	-99 6			.9998601	-101 7			.9998545	-105 7			.9998487	-109 8			.9998426	10.5
10.6	.9999020	-73 5			.9998980	-75 5			.9998939	-80 5			.9998896	-82 5			.9998852	-86 5			.9998805	10.6
10.7	.9999259	-58 4			.9999229	-59 4			.9999197	-60 4			.9999165	-64 4			.9999131	-66 4			.9999096	10.7
10.8	.9999442	-46 4			.9999419	-46 4			.9999395	-48 4			.9999370	-49 4			.9999344	-50 4			.9999318	10.8
10.9	.9999580	-38 3			.9999563	-38 3			.9999545	-38 3			.9999526	-37 3			.9999507	-39 3			.9999487	10.9
11.0	.9999685	-25 3			.9999672	-27 3			.9999659	-28 3			.9999645	-30 3			.9999630	-30 3			.9999615	11.0
11.1	.9999765	-20 3			.9999755	-20 3			.9999745	-21 3			.9999734	-22 3			.9999723	-22 3			.9999712	11.1
11.2	.9999825	-15 3			.9999817	-16 3			.9999810	-16 3			.9999802	-17 3			.9999794	-18 3			.9999785	11.2
11.3	.9999870	-11 3			.9999864	-11 3			.9999859	-13 3			.9999853	-13 3			.9999847	-14 3			.9999840	11.3
11.4	.9999904	-9 3			.9999899	-9 3			.9999895	-9 3			.9999891	-10 3			.9999886	-10 3			.9999882	11.4
11.5	.9999929	-6 3			.9999926	-7 3			.9999922	-7 3			.9999919	-7 3			.9999916	-8 3			.9999912	11.5
11.6	.9999947	-4 3			.9999945	-8 3			.9999943	-5 3			.9999940	-5 3			.9999938	-8 3			.9999935	11.6
11.7	.9999961	-4 3			.9999960	-4 3			.9999958	-4 3			.9999956	-4 3			.9999954	-4 3			.9999952	11.7
11.8	.9999972				.9999970				.9999969				.9999968				.9999966				.9999965	11.8
11.9	.9999979				.9999978				.9999977				.9999976				.9999975				.9999974	11.9
12.0	.9999985				.9999984				.9999983				.9999983				.9999982				.9999981	12.0
12.1	.9999989				.9999988				.9999988				.9999987				.9999987				.9999986	12.1
12.2	.9999992				.9999992				.9999991				.9999991				.9999991				.9999990	12.2
12.3	.9999994				.9999994				.9999994				.9999993				.9999993				.9999993	12.3
12.4	.9999996				.9999996				.9999995				.9999995				.9999995				.9999995	12.4
12.5	.9999997				.9999997				.9999997				.9999996				.9999996				.9999996	12.5
12.6	.9999998				.9999998				.9999998				.9999997				.9999997				.9999997	12.6
12.7	.9999998				.9999998				.9999998				.9999998				.9999998				.9999998	12.7
12.8	.9999999				.9999999				.9999999				.9999999				.9999999				.9999998	12.8
12.9	.9999999				.9999999				.9999999				.9999999				.9999999				.9999999	12.9
13.0	.9999999				.9999999				.9999999				.9999999				.9999999				.9999999	13.0
13.1	1.0000000				1.0000000				1.0000000				.9999999				.9999999				.9999999	13.1
13.2													1.0000000				1.0000000				1.0000000	13.2

u	p = 38.0		p = 38.2		p = 38.4		p = 38.6		p = 38.8		p = 39.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
8.0	-12650 -43	-298	.9507390	-12878 -37	-298	.9493584	-13105 -27	-390	.9479479	-13335 -29	-394	.9465069	-13563 -29	-308	8.0
8.1	-11289 -68	-261	.9587819	-11607 -64	-265	.9575979	-11727 -59	-269	.9563871	-11948 -66	-272	.9551490	-12170 -61	-278	8.1
8.2	-9994 -89	-231	.9656741	-10200 -78	-235	.9646647	-10408 -75	-239	.9636315	-10617 -73	-242	.9625741	-10827 -70	-248	8.2
8.3	-8779 -91	-202	.9715463	-8871 -91	-208	.9706907	-9163 -89	-208	.9698142	-9385 -88	-212	.9689165	-9607 -86	-218	8.3
8.4	-7654 -96	-176	.9765214	-7829 -98	-179	.9758004	-8099 -95	-183	.9750611	-8189 -94	-188	.9743032	-8370 -94	-189	8.4
8.5	-6528 -99	-163	.9807136	-6783 -93	-166	.9801092	-6947 -98	-158	.9794891	-7111 -93	-161	.9788529	-7278 -88	-184	8.5
8.6	-5498 -98	-130	.9842270	-5840 -98	-133	.9837233	-5987 -99	-136	.9832060	-6135 -99	-139	.9826748	-6284 -99	-141	8.6
8.7	-4468 -95	-111	.9871564	-4995 -96	-113	.9867387	-5123 -97	-116	.9863094	-5254 -97	-118	.9858683	-5388 -98	-121	8.7
8.8	-3432 -91	-94	.9895863	-4243 -91	-96	.9892418	-4355 -91	-98	.9888874	-4472 -93	-100	.9885230	-4591 -93	-102	8.8
8.9	-2485 -84	-79	.9915919	-3583 -85	-81	.9913091	-3582 -86	-83	.9910181	-3784 -87	-84	.9907186	-3887 -88	-87	8.9
9.0	-1522 -77	-66	.9932392	-3007 -78	-87	.9930082	-3092 -79	-89	.9927704	-3181 -80	-71	.9925255	-3271 -81	-72	9.0
9.1	-1248 -70	-64	.9945858	-2510 -70	-68	.9943981	-2584 -72	-87	.9942046	-2668 -73	-69	.9940053	-2736 -74	-80	9.1
9.2	-1020 -62	-45	.9956814	-2082 -63	-48	.9955296	-2145 -55	-49	.9953730	-2210 -56	-49	.9952116	-2276 -56	-61	9.2
9.3	-868 -55	-37	.9965688	-1718 -56	-38	.9964466	-1772 -58	-37	.9963204	-1826 -58	-40	.9961903	-1882 -59	-61	9.3
9.4	-736 -48	-30	.9972844	-1412 -49	-31	.9971864	-1456 -51	-32	.9970852	-1501 -51	-33	.9969808	-1548 -53	-34	9.4
9.5	-611 -42	-24	.9978588	-1152 -43	-23	.9977806	-1189 -44	-28	.9976999	-1229 -45	-28	.9976165	-1268 -46	-27	9.5
9.6	-506 -36	-20	.9983180	-936 -37	-20	.9982559	-968 -38	-21	.9981917	-999 -39	-22	.9981254	-1032 -40	-22	9.6
9.7	-433 -30	-16	.9986836	-765 -31	-18	.9986344	-782 -32	-17	.9985836	-809 -33	-17	.9985311	-838 -34	-18	9.7
9.8	-369 -25	-13	.9989734	-619 -26	-13	.9989347	-632 -27	-13	.9988946	-652 -28	-14	.9988532	-674 -29	-14	9.8
9.9	-311 -21	-10	.9992022	-488 -22	-10	.9991718	-504 -23	-10	.9991404	-523 -24	-11	.9991079	-542 -25	-11	9.9
10.0	-277 -18	-8	.9993822	-390 -19	-8	.9993585	-485 -19	-8	.9993339	-418 -20	-9	.9993084	-431 -20	-9	10.0
10.1	-238 -15	-8	.9995232	-310 -16	-8	.9995047	-329 -16	-7	.9994856	-352 -18	-7	.9994658	-374 -17	-7	10.1
10.2	-207 -12	-6	.9996332	-244 -13	-6	.9996189	-255 -13	-5	.9996041	-283 -13	-6	.9995887	-307 -14	-6	10.2
10.3	-185 -10	-4	.9997188	-193 -10	-4	.9997078	-201 -11	-4	.9996963	-207 -11	-4	.9996844	-214 -11	-4	10.3
10.4	-147 -6	-3	.9997851	-151 -6	-3	.9997766	-156 -9	-3	.9997678	-153 -9	-3	.9997587	-170 -10	-4	10.4
10.5	-113 -7	-2	.9998363	-118 -7	-2	.9998298	-123 -7	-2	.9998230	-126 -8	-2	.9998160	-131 -8	-2	10.5
10.6	-85 -6	-2	.9998757	-92 -6	-2	.9998707	-96 -5	-2	.9998656	-100 -8	-2	.9998602	-103 -8	-2	10.6
10.7	-69 -4	-2	.9999059	-71 -5	-2	.9999021	-74 -5	-2	.9998982	-77 -5	-2	.9998941	-80 -5	-2	10.7
10.8	-53 -4	-2	.9999290	-55 -4	-2	.9999261	-57 -4	-2	.9999231	-59 -4	-2	.9999200	-61 -4	-2	10.8
10.9	-41	-2	.9999466	-43	-2	.9999444	-44	-2	.9999421	-45	-2	.9999398	-48	-2	10.9
11.0	-31	-2	.9999599	-32	-2	.9999583	-34	-2	.9999566	-36	-2	.9999548	-38	-2	11.0
11.1	-24	-2	.9999700	-26	-2	.9999688	-28	-2	.9999675	-26	-2	.9999662	-28	-2	11.1
11.2	-18	-2	.9999776	-18	-2	.9999767	-19	-2	.9999758	-21	-2	.9999748	-22	-2	11.2
11.3	-13	-2	.9999834	-13	-2	.9999827	-16	-2	.9999820	-18	-2	.9999812	-15	-2	11.3
11.4	-11	-2	.9999877	-11	-2	.9999871	-11	-2	.9999866	-11	-2	.9999861	-13	-2	11.4
11.5	-8	-2	.9999909	-8	-2	.9999905	-8	-2	.9999901	-9	-2	.9999897	-9	-2	11.5
11.6	-8	-2	.9999933	-8	-2	.9999930	-8	-2	.9999927	-7	-2	.9999924	-7	-2	11.6
11.7	-4	-2	.9999950	-4	-2	.9999948	-5	-2	.9999946	-5	-2	.9999944	-6	-2	11.7
11.8	-4	-2	.9999964	-4	-2	.9999962	-4	-2	.9999961	-4	-2	.9999959	-4	-2	11.8
11.9		-2	.9999973		-2	.9999972		-2	.9999971		-2	.9999970		-2	11.9
12.0		-2	.9999981		-2	.9999980		-2	.9999979		-2	.9999978		-2	12.0
12.1		-2	.9999986		-2	.9999985		-2	.9999985		-2	.9999984		-2	12.1
12.2		-2	.9999990		-2	.9999989		-2	.9999989		-2	.9999988		-2	12.2
12.3		-2	.9999993		-2	.9999992		-2	.9999992		-2	.9999992		-2	12.3
12.4		-2	.9999995		-2	.9999994		-2	.9999994		-2	.9999994		-2	12.4
12.5		-2	.9999996		-2	.9999996		-2	.9999996		-2	.9999996		-2	12.5
12.6		-2	.9999997		-2	.9999997		-2	.9999997		-2	.9999997		-2	12.6
12.7		-2	.9999998		-2	.9999998		-2	.9999998		-2	.9999998		-2	12.7
12.8		-2	.9999998		-2	.9999998		-2	.9999998		-2	.9999998		-2	12.8
12.9		-2	.9999999		-2	.9999999		-2	.9999999		-2	.9999999		-2	12.9
13.0		-2	.9999999		-2	.9999999		-2	.9999999		-2	.9999999		-2	13.0
13.1		-2	.9999999		-2	.9999999		-2	.9999999		-2	.9999999		-2	13.1
13.2		-2	1.0000000		-2	1.0000000		-2	1.0000000		-2	1.0000000		-2	13.2



u	p = 39:0		p = 39:2		p = 39:4		p = 39:6		p = 39:8		p = 40:0		u
	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	$\delta_u^2$ $\delta_u^4$	I(u, p)	
2:2	-0000000												2:2
2:3	-0000000	0	-0000000	0	-0000000	0	-0000000	0	-0000000	0	-0000000	0	2:3
2:4	-0000001	+1	-0000001	+1	-0000001	+1	-0000001	+1	-0000001	+1	-0000001	+1	2:4
2:5	-0000002	+3	-0000002	+3	-0000002	+2	-0000002	+2	-0000001	+2	-0000001	+2	2:5
2:6	-0000006	+6	-0000006	+6	-0000005	+4	-0000004	+4	-0000004	+4	-0000004	+3	2:6
2:7	-0000016	+11	-0000014	+11	-0000012	+10	-0000011	+10	-0000010	+9	-0000010	+7	2:7
2:8	-0000037	+24	-0000033	+21	-0000029	+19	-0000026	+18	-0000023	+17	-0000023	+15	2:8
2:9	-0000082	+46	-0000073	+43	-0000066	+36	-0000059	+35	-0000053	+32	-0000053	+31	2:9
3:0	-0000173	+86	-0000156	+79	-0000141	+73	-0000127	+67	-0000115	+61	-0000115	+61	3:0
3:1	-0000350	+154	-0000318	+141	-0000289	+130	-0000262	+120	-0000238	+110	-0000238	+110	3:1
3:2	-0000681	+262	-0000621	+244	-0000567	+222	-0000517	+208	-0000471	+193	-0000471	+193	3:2
3:3	-0001274	+433	-0001168	+405	-0001070	+376	-0000980	+349	-0000897	+325	-0000897	+325	3:3
3:4	-0002300	+690	-0002118	+643	-0001949	+591	-0001792	+564	-0001648	+526	-0001648	+526	3:4
3:5	-0004016	+1057	-0003711	+996	-0003429	+935	-0003168	+875	-0002925	+821	-0002925	+821	3:5
3:6	-0006789	+1570	-0006300	+1485	-0005844	+1401	-0005419	+1322	-0005023	+1246	-0005023	+1246	3:6
3:7	-0011138	+2275	-0010374	+2156	-0009660	+2043	-0008992	+1931	-0008367	+1827	-0008367	+1827	3:7
3:8	-0017762	+3191	-0016604	+2984	-0015517	+2884	-0014496	+2741	-0013538	+2603	-0013538	+2603	3:8
3:9	-0027577	+4348	-0025868	+4153	-0024258	+3954	-0022741	+3782	-0021312	+3607	-0021312	+3607	3:9
4:0	-0041740	+5775	-0039285	+5535	-0036963	+5392	-0034768	+5207	-0032693	+4989	-0032693	+4989	4:0
4:1	-0061679	+7470	-0058237	+7196	-0054970	+6912	-0051872	+6643	-0048934	+6381	-0048934	+6381	4:1
4:2	-0089088	+9430	-0084375	+9105	-0079889	+8785	-0075619	+8474	-0071556	+8172	-0071556	+8172	4:2
4:3	-0125927	+11618	-0119618	+11266	-0113593	+10902	-0107840	+10555	-0102350	+10213	-0102350	+10213	4:3
4:4	-0174384	+15994	-0166117	+15359	-0158199	+15129	-0150616	+14827	-0143357	+14516	-0143357	+14516	4:4
4:5	-0236825	+21646	-0226215	+21653	-0216020	+21657	-0206229	+21621	-0196828	+21571	-0196828	+21571	4:5
4:6	-0315722	+28934	-0302366	+28533	-0289498	+28133	-0277103	+27743	-0265169	+27342	-0265169	+27342	4:6
4:7	-0413553	+38155	-0397055	+37905	-0381115	+37509	-0365720	+36915	-0350856	+36242	-0350856	+36242	4:7
4:8	-0532699	+49476	-0512682	+48241	-0493291	+46929	-0474513	+45451	-0456334	+43983	-0456334	+43983	4:8
4:9	-0675321	+62999	-0651450	+61024	-0628266	+59470	-0605757	+57445	-0583910	+55442	-0583910	+55442	4:9
5:0	-0843242	+80669	-0815242	+78673	-0787981	+76283	-0761446	+74166	-0735628	+72288	-0735628	+72288	5:0
5:1	-1037832	+10489	-1005507	+10288	-0973959	+10098	-0943178	+99133	-0913154	+97448	-0913154	+97448	5:1
5:2	-1259911	+13575	-1223158	+13279	-1187205	+13084	-1152043	+12804	-1117667	+12534	-1117667	+12534	5:2
5:3	-1509666	+17185	-1468488	+16808	-1428115	+16430	-1388542	+16176	-1349765	+15927	-1349765	+15927	5:3
5:4	-1786606	+21599	-1741118	+21221	-1696421	+20859	-1652515	+20622	-1609397	+20396	-1609397	+20396	5:4
5:5	-2089538	+26119	-2039969	+25452	-1991159	+24773	-1943110	+24576	-1895824	+24366	-1895824	+24366	5:5
5:6	-2416583	+31696	-2363272	+31206	-2310670	+30711	-2258781	+30264	-2207611	+29854	-2207611	+29854	5:6
5:7	-2765224	+37515	-2708611	+36819	-2652638	+36209	-2597316	+35747	-2542650	+35324	-2542650	+35324	5:7
5:8	-3132378	+43696	-3072988	+43059	-3014158	+42459	-2955898	+41871	-2898218	+41324	-2898218	+41324	5:8
5:9	-3514498	+50215	-3452927	+49483	-3391823	+48811	-3331197	+48237	-3271063	+47654	-3271063	+47654	5:9
6:0	-3907691	+56965	-3844584	+56287	-3781842	+55719	-3719478	+55133	-3657508	+54542	-3657508	+54542	6:0
6:1	-4307849	+64015	-4243878	+63342	-4180165	+62630	-4116725	+62047	-4053574	+61454	-4053574	+61454	6:1
6:2	-4710782	+71375	-4646624	+70608	-4582616	+69947	-4518775	+69364	-4455115	+68771	-4455115	+68771	6:2
6:3	-5112351	+79015	-5048668	+78159	-4985029	+77609	-4921450	+77016	-4857947	+76424	-4857947	+76424	6:3
6:4	-5508585	+86965	-5446004	+86211	-5383365	+84923	-5320686	+84337	-5257981	+83744	-5257981	+83744	6:4
6:5	-5895796	+95115	-5834891	+94423	-5773837	+92837	-5712647	+92247	-5651337	+91654	-5651337	+91654	6:5
6:6	-6270659	+103465	-6211942	+102730	-6152991	+101543	-6093821	+100854	-6034446	+100164	-6034446	+100164	6:6
6:7	-6630287	+112015	-6574193	+111289	-6517794	+110459	-6461102	+109764	-6404130	+109071	-6404130	+109071	6:7
6:8	-6972270	+120765	-6919155	+120019	-6865676	+119623	-6811843	+118934	-6757667	+118241	-6757667	+118241	6:8
6:9	-7294704	+129715	-7244840	+128973	-7194566	+128687	-7143891	+128037	-7092821	+127384	-7092821	+127384	6:9
7:0	-7596190	+138865	-7549769	+138241	-7502904	+137647	-7455601	+137003	-7407867	+136354	-7407867	+136354	7:0
7:1	-7875824	+148115	-7832957	+147623	-7789625	+146407	-7745831	+145754	-7701581	+145101	-7701581	+145101	7:1
7:2	-8133162	+157465	-8093890	+157109	-8054140	+156011	-8013918	+155357	-7973225	+154744	-7973225	+154744	7:2
7:3	-8368184	+166915	-8332479	+166767	-8296297	+165365	-8259640	+164703	-8222509	+164087	-8222509	+164087	7:3
7:4	-8581238	+176465	-8549019	+176323	-8516330	+174819	-8483173	+174269	-8449549	+173716	-8449549	+173716	7:4
7:5	-8772989	+186115	-8744125	+186181	-8714808	+185277	-8685037	+184825	-8654812	+184373	-8654812	+184373	7:5
7:6	-8944358	+195865	-8918683	+195847	-8892577	+194946	-8866036	+194594	-8839061	+194242	-8839061	+194242	7:6
7:7	-9096469	+205715	-9073787	+205826	-9050700	+204615	-9027204	+204263	-9003297	+203911	-9003297	+203911	7:7
7:8	-9230587	+215665	-9210685	+215833	-9190405	+215282	-9169745	+214930	-9148702	+214578	-9148702	+214578	7:8
7:9	-9348078	+225715	-9330728	+225901	-9313031	+225425	-9294984	+225068	-9276585	+224716	-9276585	+224716	7:9
8:0	-9450352	+235865	-9435323	+236119	-9419979	+235681	-9404317	+235323	-9388333	+234966	-9388333	+234966	8:0



u	p = 40.0		p = 40.2		p = 40.4		p = 40.6		p = 40.8		p = 41.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
2.2													2.2		
2.3	0		0000000	0		0000000	0		0000000	0		0000000	0		2.3
2.4	+1		0000000	+1		0000000	+1		0000000	0		0000000	0		2.4
2.5	+2		0000001	+1		0000001	+1		0000001	+1		0000001	+1		2.5
2.6	+3		0000003	+3		0000003	+3		0000002	+3		0000002	+3		2.6
2.7	+4		0000008	+4		0000007	+4		0000005	+5		0000005	+4		2.7
2.8	+5		0000019	+13		0000017	+11		0000015	+10		0000013	+9		2.8
2.9	+8		0000043	+27		0000038	+25		0000035	+21		0000031	+20		2.9
3.0	+12		0000094	+59		0000084	+47		0000076	+43		0000069	+38		3.0
3.1	+18		0000195	+133		0000177	+113		0000160	+105		0000145	+95		3.1
3.2	+25		0000391	+299		0000356	+258		0000324	+241		0000295	+222		3.2
3.3	+33		0000752	+637		0000688	+563		0000629	+517		0000575	+476		3.3
3.4	+41		0001393	+1407		0001279	+1243		0001175	+1132		0001079	+1037		3.4
3.5	+49		0002491	+2541		0002298	+2177		0002119	+1985		0001954	+1811		3.5
3.6	+57		0004313	+4509		0003994	+3913		0003698	+3477		0003423	+3155		3.6
3.7	+65		0007238	+7929		0006729	+6845		0006254	+5817		0005810	+5097		3.7
3.8	+73		0011797	+13807		0011007	+12059		0010267	+10914		0009574	+9909		3.8
3.9	+81		0018702	+23859		0017511	+21017		0016391	+19069		0015338	+17428		3.9
4.0	+89		0028882	+41451		0027134	+36522		0025484	+32897		0023928	+29886		4.0
4.1	+97		0043509	+70483		0041008	+62451		0038640	+56128		0036398	+50812		4.1
4.2	+105		0064019	+121451		0060527	+107306		0057210	+97032		0054058	+88106		4.2
4.3	+113		0092116	+204529		0087352	+182228		0082812	+165214		0078486	+149205		4.3
4.4	+121		0129763	+347176		0123406	+305183		0117328	+276191		0111519	+250168		4.4
4.5	+129		0179146	+58095		0170841	+50113		0162876	+44134		0155241	+39131		4.5
4.6	+137		0242627	+95686		0231992	+82407		0221765	+72905		0211934	+64383		4.6
4.7	+145		0322663	+159106		0309307	+138629		0296428	+124483		0284011	+110863		4.7
4.8	+153		0421717	+261756		0405251	+221010		0389331	+198399		0373941	+178208		4.8
4.9	+161		0542146	+423510		0522205	+361386		0502873	+322854		0484137	+282583		4.9
5.0	+169		0686089	+670441		0662345	+578438		0639269	+514786		0616848	+458843		5.0
5.1	+177		0855339	+1030951		0827527	+904716		0800431	+807066		0774041	+716065		5.1
5.2	+185		1051238	+1552789		1019169	+1373452		0987853	+1237744		0957280	+1107734		5.2
5.3	+193		1274577	+2307801		1238156	+2047773		1202508	+1825978		1167626	+1617906		5.3
5.4	+201		1525518	+3407811		1484751	+2720377		1444762	+2473974		1405546	+2238470		5.4
5.5	+209		1803543	+500764		1758549	+391764		1714318	+346703		1670850	+308761		5.5
5.6	+217		2107441	+720729		2058448	+543716		2010186	+482734		1962659	+428735		5.6
5.7	+225		2435316	+1028878		2382661	+752892		2330688	+671887		2279401	+59692		5.7
5.8	+233		2784638	+1440898		2728756	+104616		2673489	+924624		2618847	+81631		5.8
5.9	+241		3152316	+2009828		3093727	+1539637		3035673	+1368547		2978167	+116332		5.9
6.0	+249		3534801	+2764433		3474090	+2154468		3413825	+191275		3354019	+167293		6.0
6.1	+257		3928198	+3760353		3866002	+2947347		3804152	+261361		3742664	+228374		6.1
6.2	+265		4328403	+5042228		4265382	+4029244		4202605	+358258		4140087	+317273		6.2
6.3	+273		4731233	+6731123		4668054	+5461139		4605013	+482164		4542127	+430169		6.3
6.4	+281		5132557	+900284		5069868	+748437		5007217	+66249		4944617	+58232		6.4
6.5	+289		5528415	+1200428		5466834	+102889		5405191	+90746		5343502	+7928		6.5
6.6	+297		5915131	+1600166		5855220	+1395151		5795158	+12443		5734959	+1023		6.6
6.7	+305		6289393	+2120244		6231653	+1891231		6173682	+166218		6115493	+1401		6.7
6.8	+313		6648327	+2800311		6593185	+259300		6537743	+221289		6482013	+16644		6.8
6.9	+321		6989538	+3760366		6937342	+3579357		6884789	+490347		6831889	+6507		6.9
7.0	+329		7311135	+5000489		7262151	+484494		7212766	+661394		7162987	+89386		7.0
7.1	+337		7611734	+6640443		7566148	+657471		7520128	+902423		7473680	+120431		7.1
7.2	+345		7890444	+8640409		7848363	+892454		7805828	+119450		7762843	+15441		7.2
7.3	+353		8146835	+11040487		8108297	+1204484		8069294	+158481		8029830	+20351		7.3
7.4	+361		8380898	+14000465		8345875	+1620464		8310387	+212463		8274436	+27191		7.4
7.5	+369		8592995	+18400456		8561403	+2142456		8529355	+284456		8496851	+36455		7.5
7.6	+377		8783799	+24400449		8755509	+286440		8726779	+38441		8697608	+49442		7.6
7.7	+385		8954242	+32400417		8929089	+384418		8903517	+51421		8877524	+66423		7.7
7.8	+393		9105455	+43000392		9083245	+514394		9060642	+68396		9037642	+89369		7.8
7.9	+401		9238713	+56400363		9219234	+681181		9199390	+91389		9179176	+118872		7.9
8.0	+409		9355384	+75000339		9338412	+90715		9321105	+12021		9303458	+16828		8.0



u	p = 39.0		p = 39.2		p = 39.4		p = 39.6		p = 39.8		p = 40.0		u				
	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$					
8.0	.9450352	-13793 -24	-311	.9435323	-14022 -90	-316	.9419979	-14259 -14	-619	.9404317	-14492 -8	-322	.9388333	-14712 -1	-826	.9372023	8.0
8.1	.9538833	-12393 -45	-280	.9525896	-12617 -48	-283	.9512675	-12840 -41	-267	.9499168	-13066 -35	-291	.9485369	-13290 -34	-294	.9471276	8.1
8.2	.9614921	-11039 -70	-249	.9603852	-11252 -67	-253	.9592531	-11489 -62	-256	.9580953	-11685 -69	-260	.9569115	-11893 -66	-264	.9557013	8.2
8.3	.9679970	-9755 -84	-220	.9670556	-9957 -81	-224	.9660918	-10159 -76	-227	.9651053	-10363 -79	-231	.9640958	-10570 -74	-234	.9630628	8.3
8.4	.9735264	-8536 -92	-193	.9727303	-8741 -90	-196	.9719146	-8939 -90	-199	.9710790	-9120 -85	-203	.9702231	-9312 -85	-206	.9693466	8.4
8.5	.9782002	-7446 -97	-167	.9775309	-7618 -96	-170	.9768444	-7789 -97	-173	.9761407	-7966 -96	-177	.9754192	-8142 -95	-180	.9746798	8.5
8.6	.9821295	-6433 -99	-144	.9815697	-6601 -99	-147	.9809953	-6745 -99	-160	.9804058	-6904 -99	-153	.9798011	-7068 -99	-156	.9791808	8.6
8.7	.9854151	-5625 -99	-123	.9849496	-5661 -100	-126	.9844714	-5692 -101	-129	.9839805	-5947 -99	-131	.9834764	-6092 -99	-134	.9829589	8.7
8.8	.9881483	-4711 -94	-106	.9877632	-4834 -94	-107	.9873673	-4958 -96	-110	.9869605	-5084 -96	-112	.9865425	-5213 -97	-114	.9861131	8.8
8.9	.9904104	-3992 -89	-68	.9900934	-4099 -89	-60	.9897674	-4210 -90	-93	.9894321	-4322 -92	-95	.9890873	-4425 -93	-97	.9887328	8.9
9.0	.9922733	-3362 -82	-74	.9920137	-3466 -85	-78	.9917465	-3560 -84	-76	.9914715	-3647 -87	-80	.9911886	-3747 -87	-82	.9908976	9.0
9.1	.9938000	-2915 -75	-69	.9935884	-2998 -77	-64	.9933706	-2979 -78	-65	.9931462	-3062 -81	-67	.9929152	-3148 -80	-68	.9926774	9.1
9.2	.9950452	-2343 -65	-51	.9948736	-2412 -69	-53	.9946968	-2482 -72	-54	.9945147	-2566 -71	-55	.9943270	-2630 -73	-57	.9941336	9.2
9.3	.9960561	-1840 -61	-49	.9959176	-1898 -62	-43	.9957748	-1958 -64	-44	.9956276	-2119 -64	-46	.9954758	-2182 -65	-47	.9953194	9.3
9.4	.9968730	-1596 -54	-34	.9967618	-1646 -55	-35	.9966470	-1697 -56	-36	.9965286	-1749 -57	-37	.9964064	-1802 -59	-39	.9962804	9.4
9.5	.9975303	-1398 -47	-28	.9974414	-1350 -48	-29	.9973495	-1392 -49	-30	.9972547	-1436 -50	-31	.9971568	-1480 -51	-31	.9970558	9.5
9.6	.9980568	-1065 -41	-23	.9979860	-1100 -42	-23	.9979128	-1135 -42	-24	.9978372	-1171 -44	-25	.9977592	-1210 -45	-25	.9976786	9.6
9.7	.9984768	-868 -35	-18	.9984206	-892 -35	-19	.9983626	-922 -36	-20	.9983026	-952 -38	-20	.9982406	-982 -38	-21	.9981766	9.7
9.8	.9988103	-696 -30	-15	.9987660	-720 -30	-15	.9987202	-745 -32	-16	.9986728	-770 -32	-16	.9986238	-795 -33	-17	.9985732	9.8
9.9	.9990742	-660 -25	-12	.9990394	-680 -26	-12	.9990033	-698 -27	-13	.9989660	-715 -27	-13	.9989275	-741 -28	-13	.9988876	9.9
10.0	.9992821	-445 -20	-9	.9992548	-462 -23	-10	.9992266	-480 -22	-10	.9991974	-497 -22	-10	.9991671	-512 -23	-10	.9991358	10.0
10.1	.9994452	-355 -17	-7	.9994240	-369 -19	-8	.9994019	-381 -18	-8	.9993791	-394 -19	-8	.9993555	-408 -20	-8	.9993311	10.1
10.2	.9995728	-283 -13	-6	.9995563	-293 -13	-6	.9995391	-302 -15	-6	.9995214	-314 -16	-6	.9995031	-326 -16	-7	.9994840	10.2
10.3	.9996721	-222 -12	-5	.9996593	-230 -11	-5	.9996461	-240 -13	-5	.9996323	-247 -14	-5	.9996181	-256 -12	-5	.9996034	10.3
10.4	.9997492	-178 -10	-4	.9997393	-181 -9	-4	.9997291	-183 -10	-4	.9997185	-195 -11	-4	.9997075	-202 -10	-4	.9996962	10.4
10.5	.9998087	-136 -8		.9998012	-143 -8		.9997933	-147 -9		.9997852	-158 -9		.9997767	-157 -8		.9997680	10.5
10.6	.9998546	-106 -6		.9998488	-110 -6		.9998428	-114 -7		.9998366	-119 -8		.9998302	-125 -8		.9998234	10.6
10.7	.9998899	-84 -5		.9998854	-85 -5		.9998809	-90 -5		.9998761	-92 -6		.9998712	-97 -6		.9998661	10.7
10.8	.9999168	-63 -4		.9999135	-69 -4		.9999100	-69 -4		.9999064	-73 -4		.9999026	-74 -5		.9998987	10.8
10.9	.9999374	-60 -4		.9999348	-59 -3		.9999322	-53		.9999294	-54		.9999266	-57 -4		.9999236	10.9
11.0	.9999530	-35		.9999511	-40		.9999491	-41		.9999470	-43		.9999449	-45		.9999426	11.0
11.1	.9999648	-29		.9999634	-31		.9999619	-32		.9999603	-32		.9999587	-34		.9999570	11.1
11.2	.9999737	-22		.9999726	-29		.9999715	-23		.9999704	-26		.9999691	-26		.9999679	11.2
11.3	.9999804	-16		.9999796	-17		.9999788	-18		.9999779	-18		.9999770	-20		.9999761	11.3
11.4	.9999855	-13		.9999849	-14		.9999843	-13		.9999836	-14		.9999829	-14		.9999822	11.4
11.5	.9999892	-10		.9999888	-10		.9999883	-9		.9999879	-11		.9999874	-12		.9999868	11.5
11.6	.9999921	-7		.9999917	-7		.9999914	-6		.9999910	-8		.9999907	-9		.9999903	11.6
11.7	.9999942	-6		.9999939	-6		.9999937	-6		.9999934	-7		.9999931	-7		.9999928	11.7
11.8	.9999957	-4		.9999955	-4		.9999954	-5		.9999952	-6		.9999950	-5		.9999947	11.8
11.9	.9999969			.9999967			.9999966	-4		.9999964	-4		.9999963	-4		.9999961	11.9
12.0	.9999977			.9999976			.9999975			.9999974			.9999973			.9999972	12.0
12.1	.9999983			.9999983			.9999982			.9999981			.9999980			.9999979	12.1
12.2	.9999988			.9999987			.9999987			.9999986			.9999986			.9999985	12.2
12.3	.9999991			.9999991			.9999990			.9999990			.9999990			.9999989	12.3
12.4	.9999994			.9999993			.9999993			.9999993			.9999993			.9999992	12.4
12.5	.9999995			.9999995			.9999995			.9999995			.9999995			.9999994	12.5
12.6	.9999997			.9999997			.9999996			.9999996			.9999996			.9999996	12.6
12.7	.9999998			.9999997			.9999997			.9999997			.9999997			.9999997	12.7
12.8	.9999998			.9999998			.9999998			.9999998			.9999998			.9999998	12.8
12.9	.9999999			.9999999			.9999999			.9999999			.9999998			.9999998	12.9
13.0	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	13.0
13.1	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	13.1
13.2	1.0000000			1.0000000			1.0000000			.9999999			.9999999			.9999999	13.2
13.3										1.0000000			1.0000000			1.0000000	13.3

u	p = 40.0		p = 40.2		p = 40.4		p = 40.6		p = 40.8		p = 41.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
8.0	-14941 -5	-329	.9355384	-16170 +10	-332	.9338412	-16397 +15	-336	.9321105	-16625 +21	-339	.9303458	-16881 +25	-342	.9285469	-17077 +30	-346	8.0
8.1	-13518 -28	-298	.9456885	-13742 -26	-301	.9442193	-13971 -17	-305	.9427195	-14203 -16	-308	.9411889	-14424 -7	-312	.9396270	-14643 -4	-316	8.1
8.2	-12122 -82	-287	.9544644	-12342 -48	-271	.9532003	-12680 -48	-274	.9519089	-12783 -41	-278	.9505896	-13004 -38	-282	.9492422	-13228 -32	-285	8.2
8.3	-10777 -73	-238	.9622061	-10988 -59	-241	.9609253	-11197 -57	-245	.9598200	-11408 -54	-248	.9586899	-11622 -51	-252	.9575346	-11835 -45	-255	8.3
8.4	-9508 -88	-209	.9684492	-9702 -86	-213	.9675306	-9901 -81	-216	.9665903	-10101 -80	-220	.9656280	-10301 -78	-223	.9646435	-10505 -75	-228	8.4
8.5	-8322 -95	-183	.9739221	-8603 -94	-186	.9731458	-8868 -92	-189	.9723505	-8870 -92	-193	.9715360	-9068 -91	-196	.9707019	-9247 -89	-199	8.5
8.6	-7299 -98	-159	.9785447	-7398 -97	-162	.9778924	-7563 -99	-165	.9772237	-7534 -96	-168	.9765382	-7906 -96	-171	.9758356	-8090 -96	-174	8.6
8.7	-6239 -98	-137	.9824277	-6386 -101	-139	.9818827	-6339 -100	-140	.9813235	-6693 -100	-145	.9807498	-6849 -99	-147	.9801613	-7007 -98	-150	8.7
8.8	-5346 -98	-117	.9856721	-5480 -97	-119	.9852191	-5614 -98	-121	.9847540	-5762 -99	-124	.9842765	-5892 -99	-128	.9837863	-6034 -101	-129	8.8
8.9	-4549 -96	-99	.9883685	-4867 -95	-101	.9879941	-4789 -94	-103	.9876093	-4910 -97	-105	.9872140	-5034 -98	-108	.9868079	-5161 -97	-110	8.9
9.0	-3850 -88	-83	.9905982	-3953 -90	-85	.9902902	-4057 -91	-87	.9899736	-4165 -91	-89	.9896481	-4275 -93	-91	.9893134	-4388 -93	-93	9.0
9.1	-3236 -80	-70	.9924326	-3328 -83	-72	.9921806	-3417 -85	-73	.9919214	-3511 -84	-75	.9916547	-3606 -87	-77	.9913803	-3703 -88	-78	9.1
9.2	-2704 -74	-68	.9939344	-2781 -77	-69	.9937293	-2860 -78	-71	.9935181	-2941 -78	-73	.9933007	-3023 -81	-74	.9930769	-3108 -80	-76	9.2
9.3	-2248 -87	-48	.9951581	-2313 -68	-49	.9949920	-2382 -66	-50	.9948207	-2449 -71	-52	.9946444	-2601 -72	-53	.9944627	-2722 -72	-54	9.3
9.4	-1858 -61	-39	.9961505	-1913 -60	-40	.9960165	-1969 -63	-41	.9958784	-2029 -63	-43	.9957360	-2089 -64	-44	.9955892	-2150 -66	-46	9.4
9.5	-1626 -52	-32	.9969516	-1673 -54	-33	.9968441	-1622 -55	-34	.9967332	-1672 -56	-35	.9966187	-1721 -56	-36	.9965007	-1773 -59	-37	9.5
9.6	-1433 -45	-26	.9975954	-1287 -47	-27	.9975095	-1328 -48	-28	.9974208	-1368 -49	-29	.9973293	-1412 -50	-29	.9972349	-1456 -61	-30	9.6
9.7	-1014 -39	-21	.9981105	-1048 -40	-22	.9980421	-1060 -41	-22	.9979716	-1116 -42	-23	.9978987	-1150 -44	-24	.9978235	-1187 -45	-24	9.7
9.8	-822 -34	-17	.9985208	-848 -34	-17	.9984667	-876 -34	-18	.9984108	-904 -36	-19	.9983531	-935 -38	-19	.9982934	-964 -38	-20	9.8
9.9	-662 -29	-14	.9988463	-683 -29	-14	.9988037	-707 -29	-15	.9987596	-731 -30	-15	.9987140	-754 -32	-15	.9986669	-779 -32	-18	9.9
10.0	-529 -24	-11	.9991035	-549 -25	-11	.9990700	-567 -26	-12	.9990353	-585 -27	-12	.9989995	-605 -27	-12	.9989625	-626 -27	-13	10.0
10.1	-424 -20	-9	.9993058	-437 -20	-9	.9992796	-452 -21	-9	.9992525	-468 -22	-10	.9992245	-485 -22	-10	.9991955	-501 -23	-10	10.1
10.2	-335 -17	-7	.9994644	-349 -17	-7	.9994440	-381 -18	-7	.9994229	-374 -19	-8	.9994010	-383 -19	-8	.9993784	-399 -19	-8	10.2
10.3	-268 -14	-6	.9995881	-274 -14	-6	.9995723	-284 -16	-6	.9995559	-294 -15	-8	.9995390	-306 -16	-8	.9995214	-316 -16	-6	10.3
10.4	-210 -11	-4	.9996844	-218 -12	-4	.9996722	-228 -12	-4	.9996595	-233 -12	-5	.9996464	-241 -13	-5	.9996328	-250 -14	-5	10.4
10.5	-164 -10		.9997589	-169 -10		.9997495	-175 -10		.9997398	-183 -10	-4	.9997297	-189 -11	-4	.9997192	-196 -11	-4	10.5
10.6	-127 -8		.9998165	-133 -8		.9998093	-138 -9		.9998018	-143 -8		.9997941	-149 -9		.9997860	-153 -9		10.6
10.7	-101 -6		.9998608	-104 -6		.9998553	-108 -7		.9998495	-111 -7		.9998436	-115 -7		.9998375	-120 -8		10.7
10.8	-77 -5		.9998947	-80 -5		.9998905	-83 -6		.9998861	-86 -6		.9998816	-89 -6		.9998770	-94 -6		10.8
10.9	-68 -4		.9999206	-68 -4		.9999174	-74 -4		.9999141	-67 -5		.9999107	-70 -4		.9999071	-71 -5		10.9
11.0	-46		.9999403	-47		.9999379	-49		.9999354	-51		.9999328	-53		.9999301	-55		11.0
11.1	-35		.9999553	-38		.9999535	-39		.9999516	-40		.9999496	-40		.9999476	-43		11.1
11.2	-27		.9999666	-27		.9999652	-28		.9999638	-30		.9999624	-32		.9999608	-32		11.2
11.3	-21		.9999751	-21		.9999741	-22		.9999730	-22		.9999719	-24		.9999708	-23		11.3
11.4	-16		.9999815	-16		.9999808	-18		.9999800	-18		.9999791	-18		.9999783	-19		11.4
11.5	-11		.9999863	-12		.9999857	-12		.9999852	-14		.9999845	-13		.9999839	-14		11.5
11.6	-9		.9999899	-9		.9999895	-10		.9999890	-9		.9999886	-11		.9999881	-11		11.6
11.7	-7		.9999925	-6		.9999922	-8		.9999919	-7		.9999916	-8		.9999912	-8		11.7
11.8	-5		.9999945	-5		.9999943	-6		.9999941	-8		.9999938	-8		.9999936	-6		11.8
11.9	-4		.9999960	-4		.9999958	-4		.9999956	-4		.9999955	-4		.9999953	-4		11.9
12.0			.9999971			.9999969			.9999968			.9999967			.9999966	-4		12.0
12.1			.9999979			.9999978			.9999977			.9999976			.9999975			12.1
12.2			.9999984			.9999984			.9999983			.9999982			.9999982			12.2
12.3			.9999989			.9999988			.9999988			.9999987			.9999987			12.3
12.4			.9999992			.9999992			.9999991			.9999991			.9999990			12.4
12.5			.9999994			.9999994			.9999994			.9999993			.9999993			12.5
12.6			.9999996			.9999996			.9999995			.9999995			.9999995			12.6
12.7			.9999997			.9999997			.9999997			.9999997			.9999996			12.7
12.8			.9999998			.9999998			.9999998			.9999998			.9999997			12.8
12.9			.9999998			.9999998			.9999998			.9999998			.9999998			12.9
13.0			.9999999			.9999999			.9999999			.9999999			.9999999			13.0
13.1			.9999999			.9999999			.9999999			.9999999			.9999999			13.1
13.2			.9999999			.9999999			.9999999			.9999999			.9999999			13.2
13.3			1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			13.3



$u$	$p = 41.0$		$p = 41.2$		$p = 41.4$		$p = 41.6$		$p = 41.8$		$p = 42.0$		
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	$u$
2.3	.0000000											2.3	
2.4	.0000000	0 0	.0000000	0 0	.0000000		.0000000		.0000000		.0000000	2.4	
2.5	.0000001	+1 +1	.0000001	+1 +1	.0000000	0 0	.0000000	+1 +1	.0000000	+1 +1	.0000000	+1 +1	2.5
2.6	.0000002	+2 +1	.0000002	+2 +1	.0000001	+1 +1	.0000001	+1 +1	.0000001	+1 +1	.0000001	+1 +1	2.6
2.7	.0000005	+4 +2	.0000004	+4 +2	.0000004	+3 +2	.0000003	+3 +2	.0000003	+3 +2	.0000003	+3 +2	2.7
2.8	.0000012	+9 +5	.0000011	+9 +5	.0000009	+7 +5	.0000008	+7 +5	.0000007	+7 +5	.0000007	+7 +5	2.8
2.9	.0000028	+13 +9	.0000025	+13 +9	.0000022	+11 +7	.0000020	+11 +7	.0000018	+11 +7	.0000016	+11 +7	2.9
3.0	.0000062	+36 +14	.0000056	+32 +13	.0000050	+30 +11	.0000045	+28 +10	.0000041	+24 +11	.0000036	+24 +11	3.0
3.1	.0000132	+66 +23	.0000119	+62 +19	.0000108	+56 +20	.0000098	+51 +19	.0000088	+46 +17	.0000080	+46 +17	3.1
3.2	.0000268	+121 +32	.0000244	+111 +32	.0000222	+102 +31	.0000202	+94 +29	.0000183	+87 +26	.0000166	+87 +26	3.2
3.3	.0000525	+209 +41	.0000480	+192 +40	.0000438	+179 +44	.0000400	+166 +41	.0000365	+153 +41	.0000333	+153 +41	3.3
3.4	.0000990	+346 +71	.0000908	+323 +66	.0000833	+300 +65	.0000764	+279 +62	.0000700	+260 +57	.0000642	+260 +57	3.4
3.5	.0001801	+555 +180	.0001659	+519 +98	.0001528	+486 +89	.0001407	+454 +86	.0001295	+424 +83	.0001191	+424 +83	3.5
3.6	.0003167	+864 +125	.0002929	+819 +122	.0002709	+761 +120	.0002504	+715 +113	.0002314	+671 +107	.0002138	+671 +107	3.6
3.7	.0005397	+1299 +184	.0005011	+1224 +157	.0004651	+1166 +148	.0004316	+1099 +145	.0004004	+1025 +143	.0003713	+1025 +143	3.7
3.8	.0008925	+1896 +199	.0008317	+1793 +188	.0007749	+1699 +180	.0007217	+1609 +170	.0006719	+1529 +172	.0006254	+1462 +172	3.8
3.9	.0014349	+2687 +227	.0013419	+2655 +222	.0012546	+2428 +217	.0011726	+2307 +211	.0010956	+2191 +206	.0010234	+2191 +206	3.9
4.0	.0022460	+3705 +251	.0021076	+3536 +247	.0019771	+3374 +242	.0018542	+3217 +239	.0017384	+3066 +237	.0016294	+3066 +237	4.0
4.1	.0034276	+4974 +265	.0032269	+4784 +265	.0030370	+4592 +262	.0028575	+4436 +261	.0026878	+4278 +254	.0025275	+4278 +254	4.1
4.2	.0051066	+6506 +285	.0048226	+6237 +263	.0045531	+6012 +263	.0042974	+5776 +262	.0040450	+5544 +262	.0038252	+5544 +262	4.2
4.3	.0074364	+8307 +245	.0070440	+8013 +252	.0066704	+7727 +256	.0063149	+7448 +259	.0059766	+7178 +256	.0056549	+7178 +256	4.3
4.4	.0105969	+10951 +208	.0100667	+10021 +213	.0095604	+9698 +216	.0090772	+9379 +221	.0086160	+9069 +223	.0081760	+9069 +223	4.4
4.5	.0147925	+12603 +147	.0140915	+12242 +153	.0134202	+11885 +171	.0127774	+11536 +176	.0121622	+11191 +164	.0115735	+11191 +164	4.5
4.6	.0202484	+15092 +174	.0193405	+14621 +176	.0184685	+14243 +189	.0176312	+13869 +192	.0168275	+13499 +193	.0160562	+13499 +193	4.6
4.7	.0272045	+17453 -33	.0260516	+17075 -15	.0249411	+16699 -9	.0238719	+16304 -17	.0228426	+15928 -17	.0218522	+15563 -17	4.7
4.8	.0359069	+19891 -147	.0344702	+19514 -130	.0330827	+19134 -108	.0317430	+18756 -96	.0304500	+18375 -75	.0292024	+18000 -75	4.8
4.9	.0465984	+22172 -255	.0448402	+21828 -246	.0431377	+21470 -229	.0414897	+21112 -206	.0398949	+20732 -182	.0383520	+20367 -182	4.9
5.0	.0595071	+24188 -393	.0573925	+23886 -363	.0553397	+23577 -344	.0533476	+23262 -330	.0514150	+22987 -303	.0495405	+22693 -303	5.0
5.1	.0748346	+25521 -457	.0723334	+23586 -473	.0698994	+23040 -461	.0675317	+22502 -435	.0652288	+21959 -421	.0629899	+21419 -421	5.1
5.2	.0927442	+26987 -681	.0898329	+26318 -666	.0869931	+25647 -655	.0842240	+25107 -640	.0815245	+24574 -621	.0788935	+24047 -621	5.2
5.3	.1133505	+27632 -649	.1100137	+27474 -630	.1067515	+27399 -623	.1035630	+27312 -618	.1004476	+27208 -606	.0974043	+27100 -606	5.3
5.4	.1367100	+27448 -684	.1329419	+27496 -683	.1292498	+27026 -677	.1256332	+27339 -669	.1220915	+27585 -662	.1186241	+27835 -662	5.4
5.5	.1628143	+26680 -694	.1586197	+26385 -689	.1545007	+26076 -694	.1504573	+25707 -692	.1464890	+25302 -692	.1425956	+24920 -692	5.5
5.6	.1915866	+25215 -667	.1869810	+25485 -677	.1824492	+25732 -673	.1779911	+25363 -668	.1736067	+24976 -668	.1692960	+24592 -668	5.6
5.7	.2228807	+23089 -610	.2178908	+23456 -618	.2129709	+23509 -627	.2081212	+23146 -636	.2033420	+22786 -649	.1986336	+22430 -649	5.7
5.8	.2564837	+20350 -529	.2511464	+20613 -543	.2458737	+21259 -555	.2406659	+21603 -571	.2355239	+22017 -587	.2304479	+22407 -587	5.8
5.9	.2921217	+17085 -417	.2864833	+17825 -434	.2809024	+18567 -457	.2753799	+19417 -471	.2699165	+19369 -489	.2645131	+19369 -489	5.9
6.0	.3294682	+13403 -398	.3235827	+14003 -419	.3177465	+14692 -435	.3119606	+15172 -451	.3062260	+15742 -467	.3005438	+16302 -467	6.0
6.1	.3681550	+9429 -164	.3620824	+10062 -194	.3560498	+10695 -205	.3500585	+11292 -226	.3441097	+11940 -250	.3382046	+12580 -250	6.1
6.2	.4077841	+5279 -82	.4015883	+5987 -53	.3954226	+6593 -78	.3892885	+7244 -99	.3831874	+7855 -112	.3771204	+8427 -112	6.2
6.3	.4479411	+1103 +98	.4416879	+1769 +76	.4354547	+2419 +61	.4292429	+3068 +39	.4230539	+3724 +11	.4168893	+4387 +11	6.3
6.4	.4882084	-2975 +211	.4819634	-2343 +193	.4757281	-1706 +172	.4695041	-1069 +159	.4632928	-429 +143	.4570957	-429 +143	6.4
6.5	.5281782	-8842 +914	.5220046	-8250 +999	.5158309	-5653 +988	.5096584	-5047 +964	.5034888	-4439 +950	.4973235	-4439 +950	6.5
6.6	.5674638	-10395 +893	.5614208	-9656 +882	.5553684	-8312 +866	.5493080	-7611 +861	.5432409	-6910 +843	.5371687	-6910 +843	6.6
6.7	.6057099	-13555 +455	.5998512	-13084 +444	.5939747	-12605 +439	.5880815	-12114 +424	.5821731	-11616 +418	.5762507	-11616 +418	6.7
6.8	.6426005	-16260 +490	.6369732	-15964 +458	.6313205	-15480 +450	.6256436	-15043 +479	.6199436	-14615 +473	.6142220	-14615 +473	6.8
6.9	.6778651	-18475 +508	.6725086	-18160 +507	.6671204	-17833 +506	.6617014	-17403 +501	.6562528	-17141 +494	.6507757	-17141 +494	6.9
7.0	.7112822	-20182 +602	.7062280	-19947 +602	.7011370	-19701 +605	.6960099	-19442 +606	.6908478	-19173 +612	.6856514	-19173 +612	7.0
7.1	.7426811	-21387 +485	.7379527	-21232 +491	.7331835	-21064 +492	.7283742	-20885 +496	.7235255	-20693 +496	.7186382	-20693 +496	7.1
7.2	.7719413	-22107 +446	.7675542	-22026 +453	.7631236	-21935 +453	.7586500	-21832 +453	.7541339	-21717 +453	.7495760	-21717 +453	7.2
7.3	.7989908	-22879 +404	.7949531	-22867 +412	.7908702	-22843 +416	.7867426	-22811 +425	.7825706	-22811 +434	.7783546	-22826 +434	7.3
7.4	.82938024	-22247 +345	.8201153	-22296 +350	.8163825	-22286 +371	.8126041	-22285 +377	.8087805	-22285 +383	.8049119	-22285 +383	7.4
7.5	.8463893	-21787 +298	.8430479	-21865 +301	.8396612	-21958 +312	.8362291	-22042 +322	.8327519	-22119 +333	.8292295	-22190 +333	7.5
7.6	.8667995	-20989 +233	.8637940	-21138 +248	.8607441	-21268 +253	.8576499	-21397 +262	.8545114	-21520 +272	.8513285	-21637 +272	7.6
7.7	.8851108	-19973 +180	.8824268	-20153 +187	.8797002	-20293 +196	.8769310	-20400 +205	.8741189	-20649 +216	.8712640	-20649 +216	7.7
7.8	.9014243	-18737 +126	.8990443	-18985 +133	.8966240	-19188 +143	.8941631	-19874 +147	.8916615	-19662 +150	.8891191	-19662 +150	7.8
7.9	.9158591	-17170 +76	.9137632	-17597 +98	.9116295	-17899 +93	.9094578	-18109 +93	.9072479	-18317 +106	.9049996	-18317 +106	7.9
8.0	.9285469	-16077 +38	.9267134	-16300 +39	.9248451	-16824 +47	.9229416	-16746 +49	.9210026	-16665 +61	.9190278	-16665 +61	8.0



u	p = 42.0		p = 42.2		p = 42.4		p = 42.6		p = 42.8		p = 43.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
2.3													2.3		
2.4			-0000000			-0000000			-0000000			-0000000			2.4
2.5	+1		-0000000	0		-0000000	0		-0000000	0		-0000000	0		2.5
2.6	+1		-0000001	+1		-0000001	+1		-0000001	+1		-0000001	+1		2.6
2.7	+2		-0000002	+3		-0000002	+5		-0000002	+7		-0000002	+9		2.7
2.8	+5		-0000006	+6		-0000005	+8		-0000004	+10		-0000004	+12		2.8
2.9	+11		-0000014	+10		-0000013	+12		-0000011	+14		-0000010	+16		2.9
3.0	+24		-0000033	+20		-0000030	+18		-0000027	+16		-0000024	+15		3.0
3.1	+42		-0000072	+40		-0000065	+37		-0000059	+38		-0000053	+31		3.1
3.2	+81		-0000151	+74		-0000137	+74		-0000124	+70		-0000113	+63		3.2
3.3	+142		-0000304	+131		-0000277	+121		-0000252	+113		-0000230	+104		3.3
3.4	+240	+6	-0000588	+224	+4	-0000538	+209	+4	-0000493	+182	+4	-0000451	+179	+4	3.4
3.5	+396	+8	-0001096	+370	+7	-0001008	+345	+7	-0000926	+323	+6	-0000851	+301	+0	3.5
3.6	+628	+13	-0001974	+590	+12	-0001823	+552	+11	-0001682	+618	+10	-0001552	+485	+10	3.6
3.7	+966	+20	-0003442	+910	+19	-0003190	+887	+18	-0002956	+985	+16	-0002738	+757	+15	3.7
3.8	+1439	+30	-0005820	+1359	+29	-0005514	+1284	+27	-0005305	+1218	+23	-0004681	+1145	+24	3.8
3.9	+2080	+45	-0009557	+1974	+42	-0008922	+1874	+40	-0008327	+1774	+37	-0007769	+1653	+33	3.9
4.0	+2921	+64	-0015268	+2782	+61	-0014302	+2649	+57	-0013393	+2322	+54	-0012539	+2286	+51	4.0
4.1	+3996	+89	-0023761	+3904	+84	-0022331	+3648	+80	-0020981	+3216	+78	-0019707	+3029	+72	4.1
4.2	+5320	+120	-0036073	+5106	+114	-0034009	+4897	+109	-0032055	+4369	+104	-0030204	+4099	+99	4.2
4.3	+6914	+168	-0053491	+6855	+152	-0050584	+6405	+145	-0047822	+5860	+139	-0045199	+5324	+132	4.3
4.4	+8784	+204	-0077564	+9487	+196	-0073564	+8176	+187	-0069751	+7880	+180	-0066118	+7816	+172	4.4
4.5	+10852	+256	-0110104	+12618	+246	-0104719	+10182	+237	-0099571	+9672	+228	-0094652	+9556	+220	4.5
4.6	+13133	+314	-0153162	+16733	+308	-0146066	+12416	+293	-0139263	+12076	+285	-0132742	+11719	+273	4.6
4.7	+15549	+376	-0208993	+21615	+384	-0199829	+16165	+353	-0191019	+14419	+343	-0182551	+14051	+331	4.7
4.8	+17994	+441	-0279989	+27338	+429	-0268383	+21234	+417	-0257194	+18556	+406	-0246411	+16478	+394	4.8
4.9	+20389	+507	-0368598	+34923	+494	-0354171	+27655	+482	-0340225	+24923	+470	-0326749	+21918	+468	4.9
5.0	+22909	+670	-0477230	+43465	+687	-0459612	+35431	+643	-0442539	+32688	+633	-0426000	+29214	+621	5.0
5.1	+24542	+827	-0608136	+54280	+916	-0586989	+45966	+884	-0566446	+43062	+862	-0546495	+39362	+881	5.1
5.2	+26372	+1076	-0763302	+67810	+1208	-0738334	+60478	+1166	-0714021	+56441	+1144	-0690352	+51444	+1134	5.2
5.3	+27090	+1413	-0944323	+84650	+1571	-0915308	+77242	+1524	-0886989	+73657	+1487	-0859356	+65488	+1477	5.3
5.4	+27517	+1737	-1152304	+10517	+2012	-1119097	+97433	+2024	-1086614	+97368	+2116	-1054848	+81286	+209	5.4
5.5	+27999	+2145	-1387767	+13239	+2611	-1350319	+12448	+2611	-1313607	+12448	+2611	-1277626	+12448	+2611	5.5
5.6	+26372	+2611	-1650589	+16860	+3311	-1608952	+16810	+3311	-1568048	+16810	+3311	-1527874	+16810	+3311	5.6
5.7	+24767	+3143	-1939961	+21603	+4171	-1894296	+22371	+4171	-1849344	+22371	+4171	-1805103	+22371	+4171	5.7
5.8	+22509	+3766	-2254385	+27994	+5170	-2204961	+29826	+5170	-2156211	+29826	+5170	-2108138	+29826	+5170	5.8
5.9	+19655	+4407	-2591703	+35917	+6313	-2538888	+38599	+6313	-2486693	+38599	+6313	-2435124	+38599	+6313	5.9
6.0	+16301	+5083	-2949150	+46418	+7642	-2893404	+49830	+7642	-2838210	+49830	+7642	-2783574	+49830	+7642	6.0
6.1	+12650	+5813	-3323444	+60460	+9171	-3265302	+63471	+9171	-3207630	+63471	+9171	-3150440	+63471	+9171	6.1
6.2	+9531	+6613	-3710890	+76106	+10811	-3650945	+80381	+10811	-3591380	+80381	+10811	-3532208	+80381	+10811	6.2
6.3	+6376	+7471	-4107504	+93424	+12611	-4046386	+98204	+12611	-3985552	+98204	+12611	-3925016	+98204	+12611	6.3
6.4	+3214	+8317	-4509143	+11248	+14571	-4447500	+119281	+14571	-4386042	+119281	+14571	-4324784	+119281	+14571	6.4
6.5	+1826	+9266	-4911640	+133210	+16672	-4850116	+148587	+16672	-4788679	+148587	+16672	-4727343	+148587	+16672	6.5
6.6	+732	+10238	-5310927	+155707	+18923	-5250144	+194771	+18923	-5189352	+194771	+18923	-5128564	+194771	+18923	6.6
6.7	-1107	+11126	-5703157	+179314	+21319	-5643695	+208659	+21319	-5584134	+208659	+21319	-5524487	+208659	+21319	6.7
6.8	-4476	+11926	-6084797	+204435	+23819	-6027181	+218266	+23819	-5969385	+218266	+23819	-5911420	+218266	+23819	6.8
6.9	-10780	+12676	-6452711	+230947	+26419	-6397401	+224022	+26419	-6341838	+224022	+26419	-6286034	+224022	+26419	6.9
7.0	-18898	+13333	-6804218	+258606	+29123	-6751599	+229698	+29123	-6698666	+229698	+29123	-6645429	+229698	+29123	7.0
7.1	-27499	+13979	-7137131	+287710	+32319	-7087508	+236462	+32319	-7037523	+236462	+32319	-6987184	+236462	+32319	7.1
7.2	-36682	+14581	-7449768	+318483	+35619	-7403369	+243909	+35619	-7356570	+243909	+35619	-7309378	+243909	+35619	7.2
7.3	-46487	+15146	-7740951	+351446	+39019	-7697925	+251983	+39019	-7654474	+251983	+39019	-7610601	+251983	+39019	7.3
7.4	-56936	+15676	-8009986	+386602	+42519	-7970408	+261441	+42519	-7930390	+261441	+42519	-7889934	+261441	+42519	7.4
7.5	-68146	+16166	-8256622	+423848	+46119	-8220501	+272337	+46119	-8183935	+272337	+46119	-8146924	+272337	+46119	7.5
7.6	-80016	+16616	-8481013	+462292	+49819	-8448299	+284692	+49819	-8415143	+284692	+49819	-8381545	+284692	+49819	7.6
7.7	-92546	+17026	-8683660	+504935	+53619	-8654250	+308493	+53619	-8624410	+308493	+53619	-8594138	+308493	+53619	7.7
7.8	-105746	+17396	-8865355	+549925	+57519	-8839108	+333919	+57519	-8812446	+333919	+57519	-8785370	+333919	+57519	7.8
7.9	-119523	+17726	-9027125	+598289	+61519	-9003864	+360481	+61519	-8980213	+360481	+61519	-8956167	+360481	+61519	7.9
8.0	-17181	+18000	-9170170	+650776	+65519	-9149699	+38882	+65519	-9128862	+38882	+65519	-9107657	+38882	+65519	8.0











u	p = 43.0		p = 43.2		p = 43.4		p = 43.6		p = 43.8		p = 44.0	
	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	$\frac{\delta^2}{\delta u^2}$ $\frac{\delta^2}{\delta p^2}$	I(u, p)	u
2.4	.0000000											2.4
2.5	.0000000	0	.0000000	0	.0000000	0	.0000000	0	.0000000	0	.0000000	2.5
2.6	.0000001	+1	.0000000	+1	.0000000	+1	.0000000	+1	.0000000	0	.0000000	2.6
2.7	.0000001	+2	.0000001	+1	.0000001	+1	.0000001	+1	.0000001	+1	.0000001	2.7
2.8	.0000004	+3	.0000003	+3	.0000003	+2	.0000003	+2	.0000002	+3	.0000002	2.8
2.9	.0000009	+4	.0000008	+4	.0000007	+5	.0000007	+4	.0000006	+4	.0000005	2.9
3.0	.0000021	+15	.0000019	+13	.0000017	+12	.0000015	+12	.0000014	+10	.0000012	3.0
3.1	.0000048	+27	.0000043	+26	.0000039	+23	.0000035	+21	.0000032	+19	.0000028	3.1
3.2	.0000102	+54	.0000093	+48	.0000084	+43	.0000076	+41	.0000069	+38	.0000062	3.2
3.3	.0000210	+94	.0000191	+88	.0000174	+81	.0000158	+76	.0000144	+74	.0000131	3.3
3.4	.0000412	+168	.0000377	+155	.0000345	+144	.0000315	+133	.0000288	+128	.0000263	3.4
3.5	.0000782	+280	.0000718	+261	.0000660	+242	.0000605	+227	.0000555	+211	.0000510	3.5
3.6	.0001432	+453	.0001320	+425	.0001217	+399	.0001122	+377	.0001033	+347	.0000952	3.6
3.7	.0002535	+712	.0002347	+689	.0002172	+627	.0002009	+590	.0001858	+553	.0001718	3.7
3.8	.0004350	+1081	.0004042	+1059	.0003754	+969	.0003486	+907	.0003236	+854	.0003003	3.8
3.9	.0007246	+1593	.0006757	+1508	.0006298	+1425	.0005870	+1361	.0005468	+1279	.0005093	3.9
4.0	.0011755	+2281	.0010980	+2169	.0010271	+2059	.0009605	+1966	.0008979	+1857	.0008392	4.0
4.1	.0018305	+3177	.0017372	+3031	.0016303	+2892	.0015296	+2767	.0014347	+2627	.0013454	4.1
4.2	.0028452	+4305	.0026795	+4124	.0025227	+3947	.0023744	+3847	.0022342	+3719	.0021017	4.2
4.3	.0042707	+5695	.0040342	+5473	.0038098	+5259	.0035969	+5045	.0033949	+4829	.0032035	4.3
4.4	.0062657	+7344	.0059362	+7030	.0056225	+6824	.0053239	+6575	.0050399	+6331	.0047698	4.4
4.5	.0089951	+9249	.0085462	+8947	.0081176	+8650	.0077084	+8361	.0073180	+8078	.0069455	4.5
4.6	.0126494	+11877	.0120509	+11043	.0114777	+10714	.0109290	+10390	.0104039	+10072	.0099015	4.6
4.7	.0174414	+15857	.0166598	+15324	.0159092	+14970	.0151886	+14618	.0144970	+14271	.0138334	4.7
4.8	.0236021	+21109	.0226013	+20781	.0216377	+20529	.0207100	+19990	.0198172	+19452	.0189583	4.8
4.9	.0313731	+27854	.0301158	+28168	.0289020	+27796	.0277304	+27423	.0265999	+27052	.0255093	4.9
5.0	.0409981	+36294	.0394471	+36039	.0379459	+35912	.0364931	+35826	.0350878	+35761	.0337286	5.0
5.1	.0527125	+46699	.0508323	+46237	.0490080	+45866	.0472381	+45594	.0455218	+45322	.0438577	5.1
5.2	.0667318	+59490	.0644906	+58612	.0623107	+57861	.0601908	+57229	.0581301	+56709	.0561272	5.2
5.3	.0832401	+75299	.0806115	+74110	.0780486	+73029	.0755507	+72059	.0731166	+71199	.0707455	5.3
5.4	.1023790	+94199	.0993434	+92706	.0963772	+91366	.0934796	+90129	.0906496	+88969	.0878866	5.4
5.5	.1242372	+116494	.1207839	+114639	.1174022	+112836	.1140913	+111195	.1108507	+109696	.1076798	5.5
5.6	.1488428	+142199	.1449707	+140324	.1411707	+138594	.1374425	+136974	.1337857	+135471	.1301999	5.6
5.7	.1761575	+181199	.1718759	+178211	.1676654	+174867	.1635260	+171709	.1594574	+170721	.1554595	5.7
5.8	.2060745	+232199	.2014034	+228767	.1968007	+234658	.1922666	+230967	.1878012	+227199	.1834047	5.8
5.9	.2384186	+296199	.2333884	+292306	.2284223	+288666	.2235207	+285269	.2186840	+282199	.2139125	5.9
6.0	.2729507	+374199	.2676014	+369398	.2623104	+364812	.2570783	+360426	.2519057	+357199	.2467932	6.0
6.1	.3093741	+466199	.3037542	+460199	.2981854	+454519	.2926685	+449126	.2872044	+443926	.2817938	6.1
6.2	.3473440	+574199	.3415089	+565211	.3357165	+556538	.3299679	+548169	.3242643	+540099	.3186065	6.2
6.3	.3864791	+698199	.3804891	+687211	.3745326	+676538	.3686111	+666169	.3627256	+656099	.3568774	6.3
6.4	.4263740	+840199	.4202922	+827211	.4142345	+814538	.4082023	+802169	.4021968	+790099	.3962192	6.4
6.5	.4666121	+998199	.4605030	+983211	.4544081	+968538	.4483289	+954169	.4422669	+940099	.4362233	6.5
6.6	.5067796	+1174199	.5007061	+1156211	.4946373	+1138538	.4885746	+1121069	.4825194	+1103899	.4764730	6.6
6.7	.5464769	+1368199	.5404992	+1348211	.5345170	+1328538	.5285317	+1309069	.5225546	+1290099	.5165571	6.7
6.8	.5858300	+1580199	.5795037	+1558211	.5736644	+1538538	.5678134	+1519069	.5619519	+1500099	.5560813	6.8
6.9	.6230000	+1810199	.6173748	+1787211	.6117289	+1768538	.6060635	+1750069	.6003798	+1731899	.5946789	6.9
7.0	.6591899	+2058199	.6538085	+2029211	.6483998	+2001538	.6429648	+1974069	.6375046	+1946899	.6320202	7.0
7.1	.6936498	+2324199	.6885475	+2291211	.6834123	+2264538	.6782452	+2238069	.6730470	+2211899	.6678187	7.1
7.2	.7261799	+2608199	.7213841	+2569211	.7165510	+2543538	.7116814	+2518069	.7067760	+2492899	.7018357	7.2
7.3	.7566312	+2910199	.7521614	+2921211	.7476510	+2893538	.7431007	+2864069	.7385112	+2834899	.7338830	7.3
7.4	.7849044	+3232199	.7807725	+3202211	.7765979	+3173538	.7723812	+3144069	.7681227	+3114899	.7638230	7.4
7.5	.8109472	+3576199	.8071581	+3549211	.8033252	+3522538	.7994490	+3496069	.7955297	+3469899	.7915676	7.5
7.6	.8347506	+3942199	.8313028	+3912211	.8278111	+3886538	.8242758	+3857069	.8206969	+3827899	.8170748	7.6
7.7	.8563434	+4330199	.8532299	+4297211	.8500732	+4264538	.8468734	+4233069	.8436306	+4201899	.8403447	7.7
7.8	.8757878	+4740199	.8729969	+4697211	.8701642	+4666538	.8672896	+4636069	.8643731	+4605899	.8614146	7.8
7.9	.8931727	+5172199	.8906889	+5127211	.8881652	+5097538	.8856015	+5069069	.8829976	+5040899	.8803534	7.9
8.0	.9086080	+5626199	.9064130	+5572211	.9041805	+5548538	.9019102	+5525069	.8996019	+5501899	.8972554	8.0
8.1	.9222196	+6102199	.9202931	+6037211	.9183317	+6013538	.9163350	+5990069	.9143029	+5966899	.9122351	8.1
8.2	.9341435	+6600199	.9324639	+6527211	.9307522	+6499538	.9290069	+6476069	.9272312	+6452899	.9254212	8.2
8.3	.9445216	+7120199	.9430668	+7042211	.9415827	+7018538	.9400692	+7000069	.9385257	+6981899	.9369521	8.3
8.4	.9534974	+7662199	.9522453	+7557211	.9509669	+7533538	.9496618	+7510069	.9483297	+7486899	.9469703	8.4
8.5	.9612126	+8226199	.9601417	+8112211	.9590473	+8088538	.9579290	+8065069	.9567866	+8041899	.9556197	8.5



u	p = 44.0		p = 44.2		p = 44.4		p = 44.6		p = 44.8		p = 45.0		u	
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$
2.4													2.4	
2.5			.0000000			.0000000			.0000000			.0000000		2.5
2.6	0		.0000000	0		.0000000	0		.0000000	0		.0000000	0	2.6
2.7	+1		.0000001	+1	0	.0000001	0		.0000001	+1	0	.0000001	0	2.7
2.8	+2		.0000002	+2	+1	.0000002	+1		.0000001	+1	+1	.0000001	+1	2.8
2.9	+3		.0000005	+3	+2	.0000004	+2		.0000003	+2	+2	.0000003	+2	2.9
3.0	+4		.0000011	+4	+3	.0000010	+3		.0000008	+3	+3	.0000007	+3	3.0
3.1	+5		.0000026	+5	+4	.0000023	+4		.0000021	+4	+4	.0000019	+4	3.1
3.2	+6		.0000056	+6	+5	.0000051	+5		.0000046	+5	+5	.0000042	+5	3.2
3.3	+7		.0000119	+7	+6	.0000108	+6		.0000098	+6	+6	.0000089	+6	3.3
3.4	+8		.0000240	+8	+7	.0000219	+7		.0000200	+7	+7	.0000183	+7	3.4
3.5	+9	+4	.0000467	+9	+6	.0000428	+6		.0000393	+6	+6	.0000360	+6	3.5
3.6	+10	+6	.0000876	+10	+7	.0000807	+7		.0000742	+7	+7	.0000683	+7	3.6
3.7	+11	+8	.0001588	+11	+8	.0001467	+8		.0001356	+8	+8	.0001252	+8	3.7
3.8	+12	+10	.0002786	+12	+9	.0002584	+9		.0002396	+9	+9	.0002221	+9	3.8
3.9	+13	+12	.0004742	+13	+10	.0004414	+10		.0004108	+10	+10	.0003822	+10	3.9
4.0	+14	+13	.0007841	+14	+11	.0007324	+11		.0006839	+11	+11	.0006385	+11	4.0
4.1	+15	+14	.0012612	+15	+12	.0011820	+12		.0011074	+12	+12	.0010373	+12	4.1
4.2	+16	+15	.0019766	+16	+13	.0018584	+13		.0017467	+13	+13	.0016414	+13	4.2
4.3	+17	+16	.0030220	+17	+14	.0028500	+14		.0026871	+14	+14	.0025329	+14	4.3
4.4	+18	+17	.0045129	+18	+15	.0042688	+15		.0040368	+15	+15	.0038164	+15	4.4
4.5	+19	+18	.0065903	+19	+16	.0062516	+16		.0059288	+16	+16	.0056212	+16	4.5
4.6	+20	+19	.0094209	+20	+17	.0089614	+17		.0085222	+17	+17	.0081024	+17	4.6
4.7	+21	+20	.0131969	+21	+18	.0125866	+18		.0120014	+18	+18	.0114407	+18	4.7
4.8	+22	+21	.0181321	+22	+19	.0173377	+19		.0165741	+19	+19	.0158402	+19	4.8
4.9	+23	+22	.0244576	+23	+20	.0234436	+20		.0224663	+20	+20	.0215246	+20	4.9
5.0	+24	+23	.0324144	+24	+21	.0311442	+21		.0299167	+21	+21	.0287309	+21	5.0
5.1	+25	+24	.0422447	+25	+22	.0406817	+22		.0391676	+22	+22	.0377012	+22	5.1
5.2	+26	+25	.0541813	+26	+23	.0522911	+23		.0504555	+23	+23	.0486735	+23	5.2
5.3	+27	+26	.0684363	+27	+24	.0661879	+24		.0639995	+24	+24	.0618699	+24	5.3
5.4	+28	+27	.0851896	+28	+25	.0825578	+25		.0799902	+25	+25	.0774859	+25	5.4
5.5	+29	+28	.1045779	+29	+26	.1015442	+26		.0985780	+26	+26	.0956787	+26	5.5
5.6	+30	+29	.1266846	+30	+27	.1232392	+27		.1198634	+27	+27	.1165565	+27	5.6
5.7	+31	+30	.1515321	+31	+28	.1476750	+28		.1438878	+28	+28	.1401702	+28	5.7
5.8	+32	+31	.1790769	+32	+29	.1748180	+29		.1706279	+29	+29	.1665065	+29	5.8
5.9	+33	+32	.2092066	+33	+30	.2045665	+30		.1999924	+30	+30	.1954845	+30	5.9
6.0	+34	+33	.2417414	+34	+31	.2367508	+31		.2318218	+31	+31	.2269549	+31	6.0
6.1	+35	+34	.2764377	+35	+32	.2711367	+32		.2658916	+32	+32	.2607030	+32	6.1
6.2	+36	+35	.3129956	+36	+33	.3074325	+33		.3019182	+33	+33	.2964535	+33	6.2
6.3	+37	+36	.3510677	+37	+34	.3452974	+34		.3395678	+34	+34	.3338799	+34	6.3
6.4	+38	+37	.3902710	+38	+35	.3843533	+35		.3784673	+35	+35	.3726143	+35	6.4
6.5	+39	+38	.4301994	+39	+36	.4241967	+36		.4182164	+36	+36	.4122599	+36	6.5
6.6	+40	+39	.4704370	+40	+37	.4644125	+37		.4584009	+37	+37	.4524037	+37	6.6
6.7	+41	+40	.5105706	+41	+38	.5045863	+38		.4986057	+38	+38	.4926301	+38	6.7
6.8	+42	+41	.5502028	+42	+39	.5443177	+39		.5384274	+39	+39	.5325332	+39	6.8
6.9	+43	+42	.5889622	+43	+40	.5832307	+40		.5774858	+40	+40	.5717286	+40	6.9
7.0	+44	+43	.6265128	+44	+41	.6209834	+41		.6154332	+41	+41	.6098632	+41	7.0
7.1	+45	+44	.6625612	+45	+42	.6572755	+42		.6519625	+42	+42	.6466233	+42	7.1
7.2	+46	+45	.6968612	+46	+43	.6918533	+43		.6868129	+43	+43	.6817408	+43	7.2
7.3	+47	+46	.7292167	+47	+44	.7245131	+44		.7197727	+44	+44	.7149964	+44	7.3
7.4	+48	+47	.7594826	+48	+45	.7551018	+45		.7506813	+45	+45	.7462216	+45	7.4
7.5	+49	+48	.7875631	+49	+46	.7835165	+46		.7794282	+46	+46	.7752985	+46	7.5
7.6	+50	+49	.8134095	+50	+47	.8097013	+47		.8059505	+47	+47	.8021572	+47	7.6
7.7	+51	+50	.8370159	+51	+48	.8336442	+48		.8302298	+48	+48	.8267728	+48	7.7
7.8	+52	+51	.8584142	+52	+49	.8553717	+49		.8522872	+49	+49	.8491607	+49	7.8
7.9	+53	+52	.8776687	+53	+50	.8749435	+50		.8721776	+50	+50	.8693711	+50	7.9
8.0	+54	+53	.8948705	+54	+51	.8924470	+51		.8899848	+51	+51	.8874837	+51	8.0
8.1	+55	+54	.9101313	+55	+52	.9079913	+52		.9058148	+52	+52	.9036017	+52	8.1
8.2	+56	+55	.9235781	+56	+53	.9217013	+53		.9197906	+53	+53	.9178459	+53	8.2
8.3	+57	+56	.9353479	+57	+54	.9337130	+54		.9320470	+54	+54	.9303495	+54	8.3
8.4	+58	+57	.9455833	+58	+55	.9441683	+55		.9427251	+55	+55	.9412533	+55	8.4
8.5	+59	+58	.9544280	+59	+56	.9532112	+56		.9519690	+56	+56	.9507011	+56	8.5





$u$	$p = 44.0$		$p = 44.2$		$p = 44.4$		$p = 44.6$		$p = 44.8$		$p = 45.0$		$u$					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
8.5	-12277 -61	-248	.9544280	-12488 -48	-251	.9532112	-12761 -45	-254	.9519690	-12914 -41	-268	.9507011	-13129 -35	-261	.9494070	-13341 -33	-264	8.5
8.6	-10917 -70	-226	.9620239	-11120 -88	-223	.9609840	-11322 -98	-227	.9599215	-11527 -82	-230	.9588360	-11732 -85	-233	.9577272	-11939 -85	-236	8.6
8.7	-9658 -85	-194	.9685078	-9816 -83	-197	.9676246	-10006 -82	-200	.9667213	-10201 -80	-203	.9657977	-10395 -79	-206	.9648535	-10591 -78	-209	8.7
8.8	-8423 -95	-170	.9740101	-8609 -92	-173	.9732643	-8776 -84	-175	.9725010	-8958 -83	-178	.9717199	-9187 -80	-181	.9709207	-9321 -87	-184	8.8
8.9	-7318 -100	-147	.9786524	-7475 -99	-156	.9780264	-7638 -90	-159	.9773851	-7802 -89	-155	.9767284	-7989 -88	-168	.9760558	-8138 -97	-161	8.9
9.0	-6306 -103	-126	.9825472	-6452 -103	-120	.9820247	-6666 -100	-131	.9814890	-6848 -106	-134	.9809400	-7009 -100	-136	.9803773	-7222 -102	-139	9.0
9.1	-5401 -99	-108	.9857968	-5530 -99	-116	.9853630	-5859 -101	-112	.9849181	-6034 -97	-115	.9844617	-6229 -92	-117	.9839936	-6467 -90	-119	9.1
9.2	-4591 -95	-92	.9884934	-4705 -97	-94	.9881354	-4823 -98	-98	.9877678	-4940 -98	-97	.9873905	-5061 -98	-99	.9870032	-5183 -99	-101	9.2
9.3	-3879 -91	-77	.9907195	-3950 -90	-79	.9904255	-4081 -91	-81	.9901235	-4188 -91	-82	.9898132	-4291 -94	-84	.9894945	-4368 -96	-86	9.3
9.4	-3257 -83	-64	.9925476	-3343 -84	-68	.9923075	-3433 -85	-67	.9920606	-3522 -86	-69	.9918068	-3615 -87	-76	.9915460	-3719 -88	-72	9.4
9.5	-2718 -75	-54	.9940414	-2793 -78	-65	.9938462	-2888 -79	-68	.9936454	-2945 -80	-67	.9934389	-3026 -81	-69	.9932265	-3107 -81	-60	9.5
9.6	-2255 -69	-44	.9952559	-2318 -70	-55	.9950981	-2354 -71	-56	.9949356	-2459 -72	-49	.9947684	-2515 -73	-49	.9945963	-2588 -74	-50	9.6
9.7	-1858 -61	-38	.9962386	-1914 -62	-57	.9961116	-1969 -63	-58	.9959808	-2026 -64	-38	.9958461	-2084 -65	-46	.9957073	-2142 -67	-41	9.7
9.8	-1528 -53	-30	.9970299	-1570 -55	-36	.9969282	-1618 -56	-31	.9968234	-1664 -57	-32	.9967154	-1713 -58	-33	.9966041	-1783 -59	-34	9.8
9.9	-1243 -48	-24	.9976642	-1281 -47	-25	.9975832	-1321 -48	-25	.9974996	-1361 -49	-26	.9974134	-1401 -51	-27	.9973246	-1444 -51	-27	9.9
10.0	-1010 -40	-19	.9981704	-1042 -41	-20	.9981061	-1074 -42	-26	.9980397	-1106 -43	-21	.9979713	-1141 -45	-22	.9979007	-1178 -44	-23	10.0
10.1	-815 -34	-13	.9985724	-841 -35	-18	.9985216	-866 -37	-16	.9984692	-895 -37	-17	.9984151	-923 -37	-17	.9983592	-951 -38	-18	10.1
10.2	-654 -29	-12	.9988904	-675 -30	-13	.9988505	-689 -29	-13	.9988092	-720 -31	-14	.9987666	-742 -32	-14	.9987226	-766 -33	-14	10.2
10.3	-523 -25	-10	.9991408	-540 -26	-10	.9991095	-557 -25	-10	.9990772	-578 -27	-11	.9990439	-596 -27	-11	.9990094	-615 -28	-11	10.3
10.4	-416 -21	-8	.9993372	-430 -21	-8	.9993128	-445 -21	-8	.9992876	-459 -22	-9	.9992616	-475 -23	-9	.9992346	-490 -23	-9	10.4
10.5	-329 -17	-6	.9994905	-341 -17	-6	.9994716	-352 -18	-6	.9994521	-365 -18	-7	.9994318	-378 -19	-7	.9994109	-390 -18	-7	10.5
10.6	-260 -13	-5	.9996098	-269 -14	-5	.9995952	-274 -15	-5	.9995801	-288 -15	-5	.9995644	-297 -16	-5	.9995482	-306 -14	-6	10.6
10.7	-204 -11	-4	.9997022	-210 -12	-4	.9996910	-219 -12	-4	.9996793	-225 -13	-4	.9996673	-234 -13	-4	.9996548	-244 -11	-4	10.7
10.8	-159 -9		.9997736	-165 -9		.9997649	-171 -10		.9997560	-177 -10		.9997467	-183 -10		.9997371	-191 -9		10.8
10.9	-124 -8		.9998284	-128 -8		.9998218	-133 -9		.9998150	-138 -8		.9998079	-142 -8		.9998005	-147 -8		10.9
11.0	-96 -6		.9998704	-99 -7		.9998654	-104 -7		.9998601	-107 -7		.9998548	-111 -7		.9998492	-115 -7		11.0
11.1	-75 -4		.9999024	-78 -6		.9998986	-80 -6		.9998947	-83 -6		.9998906	-86 -6		.9998863	-88 -6		11.1
11.2	-57 -4		.9999268	-60 -4		.9999239	-61 -4		.9999209	-64 -4		.9999178	-65 -4		.9999146	-67 -4		11.2
11.3	-43 -3		.9999452	-45		.9999431	-47		.9999408	-47		.9999385	-50		.9999361	-52		11.3
11.4			.9999592	-38		.9999575	-38		.9999559	-36		.9999541	-38		.9999523	-40		11.4
11.5		-23	.9999697	-27		.9999684	-27		.9999672	-29		.9999659	-26		.9999645	-30		11.5
11.6		-19	.9999775	-20		.9999766	-21		.9999757	-22		.9999747	-23		.9999737	-23		11.6
11.7		-14	.9999834	-15		.9999827	-18		.9999820	-16		.9999813	-17		.9999805	-17		11.7
11.8		-10	.9999878	-11		.9999873	-12		.9999868	-12		.9999862	-12		.9999857	-13		11.8
11.9		-8	.9999910	-8		.9999907	-9		.9999903	-9		.9999899	-9		.9999895	-10		11.9
12.0		-6	.9999934	-6		.9999932	-7		.9999929	-7		.9999926	-7		.9999923	-8		12.0
12.1		-5	.9999952	-5		.9999950	-5		.9999948	-5		.9999946	-5		.9999944	-6		12.1
12.2			.9999965	-4		.9999964	-4		.9999962	-4		.9999961	-4		.9999959	-4		12.2
12.3			.9999975			.9999974			.9999973			.9999971			.9999970			12.3
12.4			.9999982			.9999981			.9999980			.9999979			.9999978			12.4
12.5			.9999987			.9999986			.9999986			.9999985			.9999984			12.5
12.6			.9999990			.9999990			.9999990			.9999989			.9999989			12.6
12.7			.9999993			.9999993			.9999993			.9999992			.9999992			12.7
12.8			.9999995			.9999995			.9999995			.9999994			.9999994			12.8
12.9			.9999997			.9999996			.9999996			.9999996			.9999996			12.9
13.0			.9999998			.9999997			.9999997			.9999997			.9999997			13.0
13.1			.9999998			.9999998			.9999998			.9999998			.9999998			13.1
13.2			.9999999			.9999999			.9999999			.9999999			.9999999			13.2
13.3			.9999999			.9999999			.9999999			.9999999			.9999999			13.3
13.4			.9999999			.9999999			.9999999			.9999999			.9999999			13.4
13.5			1.0000000			1.0000000			1.0000000			1.0000000			.9999999			13.5
13.6															1.0000000			13.6



u	p = 45.0				p = 45.2				p = 45.4				p = 45.6				p = 45.8				p = 46.0			
	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	I(u, p)	u		
2.5	-0000000																						2.5	
2.6	-0000000																							2.6
2.7	-0000000	0			-0000000	0			-0000000	0			-0000000	0			-0000000	0			-0000000	0	2.7	
2.8	-0000001	+1			-0000001	+1			-0000001	+1			-0000001	+1			-0000001	+1			-0000001	+1	2.8	
2.9	-0000003	+3			-0000003	+3			-0000002	+2			-0000002	+2			-0000002	+2			-0000002	+2	2.9	
3.0	-0000007	+6			-0000006	+5			-0000006	+4			-0000005	+4			-0000005	+3			-0000004	+3	3.0	
3.1	-0000017	+11			-0000015	+11			-0000014	+9			-0000012	+9			-0000011	+8			-0000010	+8	3.1	
3.2	-0000038	+22			-0000034	+21			-0000031	+19			-0000028	+17			-0000025	+17			-0000023	+17	3.2	
3.3	-0000081	+43			-0000074	+33			-0000067	+35			-0000061	+32			-0000055	+28			-0000050	+28	3.3	
3.4	-0000167	+76			-0000152	+72			-0000138	+87			-0000126	+82			-0000115	+82			-0000105	+82	3.4	
3.5	-0000329	+137			-0000302	+125			-0000276	+117			-0000253	+103			-0000231	+101			-0000211	+101	3.5	
3.6	-0000628	+229	+4		-0000577	+215	+4		-0000531	+198	+4		-0000488	+185	+4		-0000448	+172			-0000411	+172	3.6	
3.7	-0001156	+375	+7		-0001067	+300	+6		-0000984	+329	+6		-0000908	+306	+6		-0000837	+283			-0000772	+283	3.7	
3.8	-0002059	+592	+11		-0001907	+455	+11		-0001766	+524	+10		-0001636	+491	+9		-0001514	+461			-0001401	+461	3.8	
3.9	-0003554	+910	+18		-0003305	+723	+17		-0003072	+808	+16		-0002855	+762	+15		-0002652	+718			-0002463	+718	3.9	
4.0	-0005959	+1349	+27		-0005560	+1278	+25		-0005186	+1210	+24		-0004836	+1148	+22		-0004508	+1094			-0004202	+1094	4.0	
4.1	-0009713	+2156	+39		-0009093	+1855	+37		-0008510	+1763	+36		-0007963	+1673	+33		-0007448	+1582			-0006965	+1582	4.1	
4.2	-0015420	+2741	+56		-0014482	+2618	+63		-0013597	+2494	+60		-0012763	+2378	+58		-0011977	+2276			-0011237	+2276	4.2	
4.3	-0023868	+3755	+78		-0022486	+3594	+74		-0021178	+3438	+71		-0019941	+3289	+67		-0018772	+3143			-0017666	+3143	4.3	
4.4	-0036071	+5008	+106		-0034084	+4810	+101		-0032197	+4519	+98		-0030408	+4282	+92		-0028710	+4032			-0027100	+4032	4.4	
4.5	-0053282	+6521	+140		-0050492	+6283	+134		-0047835	+6053	+128		-0045307	+5829	+123		-0042902	+5609			-0040614	+5609	4.5	
4.6	-0077014	+8298	+180		-0073183	+8014	+173		-0069526	+7744	+168		-0066035	+7478	+160		-0062703	+7206			-0059525	+7206	4.6	
4.7	-0109034	+10298	+226		-0103888	+9987	+218		-0098961	+9682	+210		-0094244	+9383	+203		-0089730	+9089			-0085410	+9089	4.7	
4.8	-0151352	+12506	+279		-0144580	+12107	+270		-0138078	+11833	+261		-0131836	+11594	+252		-0125846	+11181			-0120100	+11181	4.8	
4.9	-0206175	+14538	+335		-0197439	+14501	+325		-0189028	+14147	+310		-0180932	+13797	+306		-0173143	+13448			-0165649	+13448	4.9	
5.0	-0275856	+17278	+395		-0264799	+16913	+384		-0254125	+16551	+374		-0243825	+16199	+363		-0233888	+15832			-0224305	+15832	5.0	
5.1	-0362815	+19666	+453		-0349072	+19312	+444		-0335773	+18957	+433		-0322908	+18600	+423		-0310465	+18243			-0298434	+18243	5.1	
5.2	-0469439	+21918	+514		-0452657	+21590	+503		-0436378	+21256	+492		-0420591	+20920	+481		-0405285	+20681			-0390449	+20681	5.2	
5.3	-0597981	+23519	+568		-0577832	+23632	+558		-0558239	+23343	+547		-0539194	+23043	+537		-0520686	+22799			-0502704	+22799	5.3	
5.4	-0750442	+25551	+613		-0726639	+25327	+606		-0703441	+25093	+596		-0680840	+24850	+587		-0658826	+24598			-0637388	+24598	5.4	
5.5	-0928454	+26714	+662		-0900773	+26555	+644		-0873736	+26405	+636		-0847336	+26233	+628		-0821564	+26050			-0796411	+26050	5.5	
5.6	-1133180	+27312	+678		-1101472	+27258	+672		-1070436	+27178	+665		-1040065	+27091	+658		-1010352	+26992			-0981291	+26992	5.6	
5.7	-1365218	+27351	+689		-1329424	+27318	+685		-1294314	+27341	+680		-1259885	+27349	+678		-1226132	+27341			-1193049	+27341	5.7	
5.8	-1624537	+26573	+685		-1584694	+26714	+683		-1545533	+26540	+681		-1507054	+26449	+678		-1469253	+26343			-1432128	+26343	5.8	
5.9	-1910429	+25183	+665		-1866678	+25429	+685		-1823592	+25656	+688		-1781172	+25868	+689		-1739417	+26065			-1698328	+26065	5.9	
6.0	-2221506	+23132	+626		-2174091	+23473	+632		-2127307	+23801	+633		-2081158	+24118	+637		-2035646	+24406			-1990773	+24406	6.0	
6.1	-2557515	+20489	+577		-2504977	+20901	+583		-2454823	+21317	+588		-2405257	+21720	+593		-2356284	+22109			-2307908	+22109	6.1	
6.2	-2910393	+17278	+513		-2856764	+17781	+521		-2803656	+18255	+523		-2751076	+18757	+535		-2699031	+19279			-2647528	+19279	6.2	
6.3	-3282347	+13853	+437		-3226332	+14218	+447		-3170764	+14773	+456		-3115652	+15319	+466		-3061005	+15865			-3006832	+15865	6.3	
6.4	-3667954	+9721	+353		-3610118	+10326	+364		-3552645	+10923	+373		-3495547	+11514	+385		-3438834	+12099			-3382517	+12099	6.4	
6.5	-4063282	+5610	+262		-4004229	+6233	+275		-3945449	+6854	+286		-3886956	+7472	+298		-3828762	+8083			-3770878	+8083	6.5	
6.6	-4464220	+1449	+169		-4404573	+2072	+182		-4345107	+2698	+195		-4285837	+3318	+207		-4226773	+3941			-4167930	+3941	6.6	
6.7	-4866607	-2632	+76		-4806989	-2028	+89		-4747461	-1419	+102		-4688036	-811	+116		-4628725	-199			-4569343	-199	6.7	
6.8	-5266362	-8514	-14		-5207379	-5946	-1		-5148396	-5875	+13		-5089424	-4795	+26		-5030478	+124			-4971569	+124	6.8	
6.9	-5659603	-10099	-98		-5601823	-9383	-86		-5543956	-9053	-73		-5486017	-8526	-61		-5428016	-7987			-5369967	-7987	6.9	
7.0	-6042745	-13998	-176		-5986684	-12843	-163		-5930460	-12381	-152		-5874084	-11809	-140		-5817567	-11427			-5760922	-11427	7.0	
7.1	-6412589	-16054	-242		-6358702	-15679	-232		-6304583	-15375	-222		-6250242	-14750	-211		-6195691	-14456			-6140938	-14456	7.1	
7.2	-6766379	-18322	-299		-6715050	-18013	-291		-6663431	-17694	-281		-6611530	-17364	-274		-6559357	-17022			-6506921	-17022	7.2	
7.3	-7101847	-20083	-346		-7053385	-19551	-338		-7004585	-19308	-330		-6955454	-19335	-323		-6906001	-19081			-6856233	-19081	7.3	
7.4	-7417233	-21339	-381		-7371869	-21184	-375		-7326131	-21013	-368		-7280023	-20839	-362		-7233554	-20651			-7186729	-20651	7.4	
7.5	-7711280	-22109	-404		-7669169	-22024	-400		-7626659	-21890	-396		-7583753	-21827	-391		-7540456	-21711			-7496774	-21711	7.5	
7.6	-7983218	-22423	-419		-7944455	-22405	-416		-7905257	-22379	-412		-7865656	-22341	-409		-7825647	-22296			-7785232	-22296	7.6	
7.7	-8232733	-22326	-423		-8197316	-22369	-421		-8161476	-22400	-419		-8125218	-22426	-417		-8088542	-22441			-8051451	-22441	7.7	
7.8	-8459922	-2137	-419		-8427818	-2185	-419		-8395295	-22050	-418		-8362354	-22129	-417		-8328996	-22189			-8295222	-22189	7.8	
7.9	-8665237	-21116	-408		-8636355	-21550	-408		-8607064	-21377	-409		-8577364	-21498	-409		-8547255	-21814			-8516736	-21814	7.9	
8.0	-8849436	-20118	-399		-8823642	-20292	-393		-8797456	-20444	-394		-8770876	-20601	-393		-8743900	-20752			-8716528	-20752	8.0	
8.1	-9013517	-18930	-371		-8990647	-19122	-373		-8967404	-19308	-375		-8943787	-19491	-376		-8919793	-19669			-8895422	-19669	8.1	
8.2	-9158668	-17014	-348		-9138530	-17819	-349		-9118044	-18028	-361		-9097207	-18224	-353		-9076017	-18424			-9054471	-18424	8.2	
8.3	-9286205	-16213	-320		-9268594	-16430	-322		-9250661	-16844	-325		-9232403	-17056	-328		-9213817	-17268			-9194900	-17268	8.3	
8.4	-9397527	-14779	-292		-9382228	-14998	-285		-9366634	-15021	-298		-9350743	-15428	-301									



u	p = 46.0		p = 46.2		p = 46.4		p = 46.6		p = 46.8		p = 47.0		u	
	$\delta_u^1$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^3$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^3$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^3$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^3$ $\delta_u^4$
2.5													2.5	
2.6													2.6	
2.7			0.000000			0.000000			0.000000			0.000000		2.7
2.8	0		0.000001	+1		0.000000	+1		0.000000	0		0.000000	0	2.8
2.9	+1		0.000001	+1		0.000001	+1		0.000001	+1		0.000001	+1	2.9
3.0	+4		0.000004	+3		0.000003	+3		0.000003	+2		0.000002	+3	3.0
3.1	+7		0.000009	+6		0.000008	+5		0.000007	+5		0.000006	+4	3.1
3.2	+14		0.000020	+14		0.000018	+13		0.000017	+13		0.000015	+12	3.2
3.3	+28		0.000045	+25		0.000041	+23		0.000037	+22		0.000033	+19	3.3
3.4	+51		0.000095	+48		0.000087	+44		0.000079	+40		0.000072	+38	3.4
3.5	+94		0.000193	+88		0.000177	+79		0.000161	+75		0.000147	+70	3.5
3.6	+161		0.000377	+159		0.000346	+140		0.000318	+129		0.000292	+119	3.6
3.7	+268	+5	0.000711	+257	+5	0.000655	+235	+4	0.000604	+218	+4	0.000556	+204	3.7
3.8	+433	+8	0.001296	+408	+8	0.001199	+380	+7	0.001108	+358	+7	0.001024	+335	3.8
3.9	+677	+13	0.002287	+687	+12	0.002123	+600	+11	0.001970	+564	+10	0.001827	+531	3.9
4.0	+1024	+20	0.003915	+968	+18	0.003647	+915	+17	0.003396	+864	+16	0.003161	+817	4.0
4.1	+1599	+30	0.006511	+1432	+28	0.006086	+1357	+26	0.005686	+1298	+25	0.005312	+1218	4.1
4.2	+2157	+43	0.010539	+2054	+41	0.009882	+1956	+38	0.009264	+1859	+36	0.008682	+1769	4.2
4.3	+3005	+61	0.016621	+2871	+58	0.015634	+2742	+55	0.014701	+2619	+52	0.013821	+2499	4.3
4.4	+4050	+84	0.025574	+3921	+80	0.024128	+3747	+76	0.022757	+3577	+72	0.021459	+3439	4.4
4.5	+5397	+112	0.038438	+5191	+107	0.036369	+4998	+103	0.034403	+4800	+98	0.032536	+4610	4.5
4.6	+7087	+147	0.056493	+7529	+141	0.053603	+6792	+134	0.050848	+6245	+130	0.048223	+5835	4.6
4.7	+9159	+188	0.081279	+8523	+181	0.077329	+8248	+175	0.073553	+7979	+167	0.069945	+7714	4.7
4.8	+11689	+236	0.114588	+10646	+227	0.109303	+10237	+219	0.104236	+9935	+211	0.099381	+9595	4.8
4.9	+15107	+287	0.158443	+12768	+278	0.151514	+12481	+269	0.144854	+12100	+260	0.138455	+11778	4.9
5.0	+19473	+343	0.215064	+16119	+333	0.206156	+14789	+323	0.197572	+14417	+314	0.189302	+14071	5.0
5.1	+24886	+401	0.286804	+21729	+391	0.275566	+17170	+381	0.264707	+16817	+371	0.254220	+16461	5.1
5.2	+31904	+460	0.376073	+29896	+449	0.362146	+19651	+439	0.348659	+19201	+428	0.335599	+18854	5.2
5.3	+40429	+518	0.485238	+40225	+508	0.468277	+21707	+493	0.451812	+21474	+483	0.435832	+21147	5.3
5.4	+50439	+567	0.616518	+54071	+557	0.596205	+23796	+543	0.576439	+23517	+538	0.557212	+23229	5.4
5.5	+62007	+611	0.771869	+72544	+602	0.747929	+25440	+593	0.724583	+25216	+584	0.701821	+24984	5.5
5.6	+75239	+644	0.952874	+96752	+637	0.925093	+26917	+630	0.897943	+26468	+622	0.871414	+26309	5.6
5.7	+90221	+665	1.160631	+128287	+660	1.128874	+27285	+684	1.097771	+27174	+648	1.067316	+27099	5.7
5.8	+107000	+678	1.395675	+17185	+669	1.359891	+27238	+665	1.324773	+27268	+669	1.290316	+27286	5.8
5.9	+126245	+684	1.657903	+26410	+663	1.618141	+26560	+682	1.579041	+26694	+680	1.540602	+26812	5.9
6.0	+148990	+641	1.946541	+40558	+642	1.902951	+25205	+643	1.860003	+25441	+644	1.817700	+25600	6.0
6.1	+174485	+602	2.260135	+59244	+605	2.212966	+23191	+609	2.166406	+23252	+612	2.120458	+23389	6.1
6.2	+203084	+548	2.596573	+83130	+654	2.546172	+20502	+650	2.496331	+20902	+665	2.447055	+21180	6.2
6.3	+235381	+482	2.953141	+116897	+490	2.899940	+17402	+498	2.847238	+17894	+605	2.795040	+18377	6.3
6.4	+271678	+406	3.326606	+163244	+415	3.271110	+13804	+428	3.216039	+14357	+434	3.161402	+14800	6.4
6.5	+312075	+322	3.713315	+22925	+332	3.656084	+9804	+343	3.599197	+10486	+354	3.542664	+11072	6.5
6.6	+357572	+232	4.109319	+31799	+244	4.050952	+8794	+256	3.992841	+9408	+268	3.934998	+1018	6.6
6.7	+408270	+141	4.510502	+43266	+154	4.451614	+7840	+166	4.392893	+9252	+178	4.334350	+9865	6.7
6.8	+464168	+51	4.912711	+57808	+63	4.853916	+7018	+76	4.795197	+8488	+89	4.736567	+7559	6.8
6.9	+525276	-86	5.311882	+84809	-24	5.253773	+6377	-11	5.195653	+5776	+1	5.137534	+5210	6.9
7.0	+591404	-117	5.704160	+11441	-103	5.647293	+5937	-93	5.590333	+5426	-82	5.533291	+4907	7.0
7.1	+662532	-190	6.085997	+15602	-179	6.030876	+5443	-168	5.975587	+4989	-157	5.920141	+4527	7.1
7.2	+739660	-253	6.454232	+20409	-244	6.401300	+5008	-234	6.348133	+4600	-224	6.294742	+4148	7.2
7.3	+822788	-308	6.806158	+25818	-293	6.755786	+4632	-290	6.705123	+4278	-281	6.654179	+3888	7.3
7.4	+913916	-359	7.139556	+32844	-342	7.092040	+4347	-335	7.044189	+3997	-328	6.996011	+3613	7.4
7.5	+1013044	-380	7.452711	+41400	-375	7.408273	+4147	-389	7.363466	+3747	-384	7.318295	+3368	7.5
7.6	+1120172	-401	7.744416	+51600	-397	7.703203	+3997	-393	7.661596	+3547	-389	7.619601	+3118	7.6
7.7	+1234300	-413	8.013948	+63400	-410	7.976035	+3897	-407	7.937714	+3347	-404	7.898990	+2868	7.7
7.8	+1355428	-415	8.261034	+76800	-418	8.226432	+3827	-412	8.191419	+3147	-410	8.155995	+2618	7.8
7.9	+1483556	-409	8.485809	+91800	-409	8.454472	+3777	-408	8.422728	+2947	-408	8.390575	+2368	7.9
8.0	+1618684	-397	8.688759	+108400	-398	8.660593	+3727	-398	8.632027	+2747	-398	8.603067	+2118	8.0
8.1	+1760812	-379	8.870671	+126600	-381	8.845540	+3677	-382	8.820029	+2547	-388	8.794131	+1868	8.1
8.2	+1909940	-358	9.032567	+146400	-380	9.010304	+3627	-382	8.987680	+2347	-368	8.964691	+1618	8.2
8.3	+2066068	-333	9.175651	+167800	-335	9.156066	+3577	-358	9.136144	+2147	-340	9.115881	+1368	8.3
8.4	+2229196	-308	9.301253	+190800	-309	9.284142	+3527	-312	9.266718	+1947	-313	9.248980	+1118	8.4
8.5	+2400324	-270	9.410782	+215400	-289	9.395931	+3477	-285	9.380795	+1747	-288	9.365371	+918	8.5





u	p = 46.0		p = 46.2			p = 46.4			p = 46.6			p = 46.8			p = 47.0			u
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	
8.5	-14417	-279	.9410782	-14638	-282	.9395931	-14848	-285	.9380795	-15063	-288	.9365371	-15276	-291	.9349657	-15491	-294	8.5
8.6	-12985	-251	.9505678	-13199	-255	.9492872	-13406	-258	.9479809	-13619	-261	.9466486	-13832	-264	.9452898	-14043	-266	8.6
8.7	-11590	-225	.9587378	-11793	-228	.9576407	-11999	-231	.9565204	-12203	-234	.9553769	-12410	-237	.9542096	-12616	-240	8.7
8.8	-10258	-199	.9657285	-10422	-202	.9647943	-10646	-204	.9638396	-10864	-206	.9628642	-11086	-210	.9618678	-11295	-213	8.8
8.9	-9007	-174	.9716740	-9185	-177	.9708834	-9399	-180	.9700748	-9650	-183	.9692479	-9883	-185	.9684025	-9919	-188	8.9
9.0	-7847	-152	.9767010	-8011	-164	.9760359	-8179	-167	.9753550	-8346	-169	.9746583	-8518	-169	.9739453	-8699	-165	9.0
9.1	-6784	-131	.9809269	-6933	-133	.9803705	-7043	-138	.9798006	-7239	-138	.9792169	-7394	-140	.9786192	-7653	-143	9.1
9.2	-5825	-112	.9844593	-6059	-114	.9839966	-6096	-116	.9835223	-6234	-118	.9830361	-6374	-121	.9825378	-6515	-123	9.2
9.3	-4966	-95	.9873958	-5085	-97	.9870131	-5208	-99	.9866206	-5380	-101	.9862179	-5455	-103	.9858049	-5582	-105	9.3
9.4	-4293	-80	.9898238	-4310	-82	.9895091	-4415	-84	.9891859	-4528	-86	.9888542	-4685	-87	.9885138	-4749	-89	9.4
9.5	-3538	-67	.9918208	-3680	-69	.9915633	-3728	-71	.9912987	-3818	-72	.9910270	-3918	-73	.9907478	-4012	-75	9.5
9.6	-2958	-56	.9934548	-3088	-57	.9932452	-3118	-59	.9930297	-3200	-60	.9928082	-3283	-62	.9925806	-3370	-63	9.6
9.7	-2460	-46	.9947850	-2626	-47	.9946152	-2696	-49	.9944407	-2766	-50	.9942611	-2738	-51	.9940764	-2811	-52	9.7
9.8	-2031	-38	.9958626	-2090	-39	.9957258	-2147	-40	.9955851	-2208	-41	.9954402	-2269	-42	.9952911	-2331	-43	9.8
9.9	-1669	-31	.9967312	-1716	-32	.9966216	-1767	-33	.9965087	-1817	-34	.9963924	-1869	-34	.9962727	-1923	-35	9.9
10.0	-1364	-25	.9974282	-1405	-26	.9973407	-1445	-27	.9972506	-1489	-28	.9971577	-1534	-28	.9970620	-1578	-29	10.0
10.1	-1107	-20	.9979847	-1140	-21	.9979153	-1176	-22	.9978436	-1210	-22	.9977698	-1245	-23	.9976937	-1285	-23	10.1
10.2	-896	-16	.9984272	-894	-17	.9983723	-962	-17	.9983156	-981	-18	.9982572	-1011	-18	.9981969	-1041	-19	10.2
10.3	-719	-13	.9987773	-742	-14	.9987341	-768	-14	.9986895	-790	-14	.9986435	-815	-15	.9985960	-841	-15	10.3
10.4	-576	-10	.9990532	-595	-11	.9990193	-613	-11	.9989844	-634	-11	.9989483	-654	-12	.9989110	-674	-12	10.4
10.5	-458	-6	.9992696	-474	-9	.9992432	-490	-9	.9992159	-505	-9	.9991877	-521	-9	.9991586	-538	-10	10.5
10.6	-364	-6	.9994386	-375	-7	.9994181	-387	-7	.9993969	-400	-7	.9993750	-414	-7	.9993524	-428	-8	10.6
10.7	-297	-5	.9995701	-293	-5	.9995543	-307	-5	.9995379	-317	-6	.9995209	-327	-8	.9995034	-338	-6	10.7
10.8	-224	-4	.9996721	-233	-4	.9996598	-240	-4	.9996472	-249	-4	.9996341	-257	-6	.9996206	-266	-6	10.8
10.9	-176	-11	.9997507	-183	-10	.9997413	-186	-11	.9997316	-194	-11	.9997216	-202	-4	.9997112	-208	-4	10.9
11.0	-137	-8	.9998111	-142	-8	.9998040	-147	-8	.9997966	-152	-8	.9997889	-157	-9	.9997810	-163	-9	11.0
11.1	-107	-6	.9998574	-110	-7	.9998520	-114	-7	.9998463	-118	-7	.9998405	-121	-8	.9998345	-127	-9	11.1
11.2	-82	-6	.9998927	-85	-6	.9998886	-88	-6	.9998843	-91	-6	.9998799	-94	-7	.9998753	-97	-6	11.2
11.3	-64	-4	.9999196	-65	-4	.9999164	-67	-5	.9999132	-70	-5	.9999099	-73	-5	.9999064	-75	-5	11.3
11.4	-49		.9999399	-50		.9999376	-52	-4	.9999351	-54	-4	.9999326	-56	-4	.9999300	-58		11.4
11.5	-37		.9999552	-38		.9999535	-40		.9999516	-41		.9999498	-43		.9999478	-44		11.5
11.6	-29		.9999668	-29		.9999654	-30		.9999641	-30		.9999627	-33		.9999612	-33		11.6
11.7	-21		.9999754	-22		.9999744	-23		.9999734	-23		.9999723	-24		.9999713	-25		11.7
11.8	-16		.9999818	-16		.9999811	-17		.9999804	-18		.9999796	-18		.9999788	-19		11.8
11.9	-12		.9999866	-12		.9999861	-13		.9999855	-13		.9999850	-14		.9999844	-15		11.9
12.0	-9		.9999902	-10		.9999898	-10		.9999894	-10		.9999890	-11		.9999885	-12		12.0
12.1	-7		.9999928	-8		.9999925	-8		.9999922	-7		.9999919	-8		.9999916	-8		12.1
12.2	-5		.9999948	-6		.9999946	-7		.9999943	-6		.9999941	-6		.9999939	-6		12.2
12.3	-4		.9999962	-4		.9999960	-4		.9999959	-4		.9999957	-4		.9999955	-4		12.3
12.4			.9999973			.9999971			.9999970			.9999969			.9999968			12.4
12.5			.9999980			.9999979			.9999978			.9999978			.9999977			12.5
12.6			.9999986			.9999985			.9999984			.9999984			.9999983			12.6
12.7			.9999990			.9999989			.9999989			.9999988			.9999988			12.7
12.8			.9999993			.9999992			.9999992			.9999992			.9999991			12.8
12.9			.9999995			.9999994			.9999994			.9999994			.9999994			12.9
13.0			.9999996			.9999996			.9999996			.9999996			.9999996			13.0
13.1			.9999997			.9999997			.9999997			.9999997			.9999997			13.1
13.2			.9999998			.9999998			.9999998			.9999998			.9999998			13.2
13.3			.9999999			.9999999			.9999999			.9999999			.9999999			13.3
13.4			.9999999			.9999999			.9999999			.9999999			.9999999			13.4
13.5			.9999999			.9999999			.9999999			.9999999			.9999999			13.5
13.6			1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			13.6

103  
75  
28  
9705



u	p = 47.0			p = 47.2			p = 47.4			p = 47.6			p = 47.8			p = 48.0	
	I(u, p)	$\delta_u^0$	$\delta_p^0$	I(u, p)	$\delta_u^0$	$\delta_p^0$	I(u, p)	$\delta_u^0$	$\delta_p^0$	I(u, p)	$\delta_u^0$	$\delta_p^0$	I(u, p)	$\delta_u^0$	$\delta_p^0$	I(u, p)	u
2.7	0.000000			0.000000			0.000000			0.000000			0.000000			0.000000	2.7
2.8	0.000000	0		0.000000	0		0.000000	0		0.000000	0		0.000000	0		0.000000	2.8
2.9	0.000001	+2		0.000001	+1		0.000001	+1		0.000001	+1		0.000001	+1		0.000000	2.9
3.0	0.000002	+9		0.000002	+2		0.000002	+2		0.000002	+1		0.000001	+2		0.000001	3.0
3.1	0.000006	+4		0.000005	+4		0.000005	+3		0.000004	+3		0.000004	+3		0.000003	3.1
3.2	0.000014	+8		0.000012	+3		0.000011	+3		0.000010	+3		0.000009	+3		0.000008	3.2
3.3	0.000030	+19		0.000027	+17		0.000025	+15		0.000022	+15		0.000020	+13		0.000018	3.3
3.4	0.000065	+36		0.000059	+32		0.000054	+29		0.000049	+26		0.000044	+25		0.000040	3.4
3.5	0.000135	+82		0.000123	+53		0.000112	+55		0.000102	+51		0.000093	+46		0.000085	3.5
3.6	0.000267	+113		0.000245	+104		0.000225	+95		0.000206	+89		0.000188	+84		0.000173	3.6
3.7	0.000512	+199		0.000471	+173		0.000433	+167		0.000399	+154		0.000367	+142		0.000337	3.7
3.8	0.000947	+313	+6	0.000875	+293	+5	0.000808	+274	+5	0.000746	+257	+5	0.000688	+242	+4	0.000635	3.8
3.9	0.001695	+497	+9	0.001572	+469	+9	0.001457	+441	+8	0.001350	+414	+7	0.001251	+388	+7	0.001158	3.9
4.0	0.002942	+772	+14	0.002738	+727	+14	0.002547	+686	+13	0.002368	+648	+12	0.002202	+610	+11	0.002047	4.0
4.1	0.004961	+1154	+22	0.004631	+1095	+21	0.004323	+1038	+19	0.004034	+979	+18	0.003763	+927	+17	0.003510	4.1
4.2	0.008134	+1683	+32	0.007619	+1599	+31	0.007135	+1519	+29	0.006679	+1444	+27	0.006251	+1371	+26	0.005850	4.2
4.3	0.012990	+2324	+47	0.012206	+2273	+44	0.011466	+2165	+42	0.010768	+2065	+40	0.010110	+1988	+38	0.009490	4.3
4.4	0.020230	+3291	+66	0.019066	+3151	+62	0.017965	+3013	+59	0.016923	+2882	+58	0.015937	+2755	+54	0.015006	4.4
4.5	0.030761	+4429	+69	0.029077	+4251	+85	0.027477	+4089	+82	0.025960	+3915	+78	0.024519	+3757	+74	0.023154	4.5
4.6	0.045721	+5816	+113	0.043339	+5693	+114	0.041071	+5394	+109	0.038912	+5193	+104	0.036858	+4995	+100	0.034903	4.6
4.7	0.066497	+7457	+155	0.063204	+7305	+140	0.060059	+6981	+143	0.057057	+6722	+137	0.054192	+6489	+131	0.051459	4.7
4.8	0.094730	+9344	+196	0.090274	+9059	+189	0.086008	+8777	+192	0.081924	+8502	+175	0.078015	+8233	+169	0.074275	4.8
4.9	0.132307	+11492	+243	0.126403	+11134	+235	0.120734	+10822	+227	0.115293	+10514	+220	0.110071	+10211	+212	0.105061	4.9
5.0	0.181336	+13725	+295	0.173666	+13388	+286	0.166282	+13052	+276	0.159176	+12719	+268	0.152338	+12392	+261	0.145762	5.0
5.1	0.244093	+16197	+351	0.234317	+15756	+341	0.224882	+15496	+332	0.215778	+15060	+322	0.206997	+14713	+313	0.198529	5.1
5.2	0.322957	+18935	+408	0.310724	+18154	+398	0.298888	+17854	+388	0.287440	+17453	+378	0.276369	+17106	+368	0.265668	5.2
5.3	0.420326	+22917	+484	0.405285	+22048	+454	0.390698	+20946	+444	0.376555	+19912	+434	0.362847	+19424	+424	0.349562	5.3
5.4	0.538512	+28296	+516	0.520331	+27336	+508	0.502657	+26332	+496	0.485482	+25295	+488	0.468796	+24212	+479	0.452589	5.4
5.5	0.679634	+34444	+566	0.658013	+32497	+557	0.636949	+24242	+546	0.616434	+23077	+539	0.596457	+21937	+529	0.577009	5.5
5.6	0.845500	+42137	+606	0.820192	+39956	+595	0.795483	+25752	+590	0.771363	+24583	+582	0.747825	+23533	+574	0.724861	5.6
5.7	1.037503	+50711	+636	1.008327	+47999	+629	0.979779	+26795	+623	0.951855	+25674	+616	0.924546	+24653	+609	0.897845	5.7
5.8	1.256517	+59729	+653	1.223371	+56296	+648	1.190873	+27256	+643	1.159018	+27220	+638	1.127802	+27169	+633	1.097218	5.8
5.9	1.502820	+69817	+686	1.465695	+65906	+653	1.429223	+27373	+656	1.393401	+27183	+647	1.358227	+27182	+644	1.323696	5.9
6.0	1.776040	+80970	+644	1.735024	+74654	+644	1.694651	+26229	+643	1.654922	+24987	+642	1.615834	+24632	+646	1.577387	6.0
6.1	2.075124	+92441	+817	2.030407	+82428	+819	1.986308	+24765	+620	1.942830	+24558	+621	1.899973	+24201	+622	1.857738	6.1
6.2	2.398349	+104715	+873	2.350218	+90298	+873	2.302666	+22924	+588	2.255696	+22876	+586	2.209313	+22813	+589	2.163519	6.2
6.3	2.743355	+118447	+919	2.692188	+98236	+925	2.641548	+19753	+531	2.591438	+20188	+537	2.541866	+20610	+542	2.492836	6.3
6.4	3.107208	+134355	+959	3.053466	+106384	+960	3.000183	+16474	+466	2.947368	+19979	+475	2.895029	+17472	+483	2.843172	6.4
6.5	3.486496	+151631	+975	3.430702	+114724	+985	3.375292	+13780	+394	3.320277	+13948	+403	3.265664	+13896	+412	3.211464	6.5
6.6	3.877435	+170233	+991	3.820162	+123252	+1002	3.763191	+8921	+813	3.706532	+9415	+823	3.650197	+10000	+833	3.594195	6.6
6.7	4.275997	+190237	+1003	4.217847	+131969	+1014	4.159911	+4701	+226	4.102202	+5307	+239	4.044730	+5914	+249	3.987508	6.7
6.8	4.678038	+211650	+1013	4.619622	+140968	+1026	4.561332	+554	+196	4.503179	+1169	+150	4.445177	+1762	+162	4.387336	6.8
6.9	5.079429	+23448	+26	5.021349	+4068	+38	4.963307	+3497	+50	4.905315	+2905	+62	4.847386	+2320	+74	4.789531	6.9
7.0	5.476180	+8892	-58	5.419010	-7549	-46	5.361795	-7512	-34	5.304546	-5768	-22	5.247275	-6221	-10	5.189993	7.0
7.1	5.864549	-11790	-135	5.808822	-11305	-124	5.752971	-10921	-113	5.697008	-10230	-101	5.640943	-9539	-90	5.584788	7.1
7.2	6.241138	-14754	-204	6.187329	-14383	-194	6.133326	-13932	-184	6.079140	-13603	-173	6.025478	-13095	-163	5.970259	7.2
7.3	6.602963	-17276	-264	6.551483	-15364	-265	6.499749	-13589	-245	6.447769	-12830	-236	6.395553	-12300	-227	6.343110	7.3
7.4	6.947512	-19294	-313	6.898700	-16331	-305	6.849582	-12754	-297	6.800168	-12471	-289	6.750463	-11744	-281	6.700478	7.4
7.5	7.272767	-20891	-352	7.226886	-17261	-343	7.180661	-12044	-339	7.134096	-11209	-332	7.087199	-10592	-326	7.039977	7.5
7.6	7.577221	-21810	-380	7.534461	-18164	-375	7.491326	-11568	-370	7.447822	-10841	-365	7.403953	-10284	-359	7.359725	7.6
7.7	7.859865	-22845	-396	7.820342	-19027	-394	7.780425	-11040	-390	7.740117	-10371	-387	7.699423	-9884	-382	7.658347	7.7
7.8	8.120164	-22447	-405	8.083926	-19850	-404	8.047284	-10469	-401	8.010241	-9989	-399	7.972799	-9544	-396	7.934961	7.8
7.9	8.358016	-22152	-406	8.325050	-20623	-405	8.291680	-9999	-404	8.257905	-9589	-403	8.223728	-9208	-401	8.189150	7.9
8.0	8.573706	-21546	-399	8.543946	-21356	-399	8.513787	-9172	-399	8.483230	-8830	-398	8.452275	-8495	-396	8.420922	8.0
8.1	8.767850	-20656	-385	8.741184	-22004	-386	8.714132	-8333	-387	8.686693	-8084	-387	8.658867	-7845	-386	8.630653	8.1
8.2	8.941338	-19591	-367	8.917618	-22677	-366	8.893530	-7595	-370	8.869072	-7346	-371	8.844243	-7105	-372	8.819041	8.2
8.3	9.095275	-18287	-345	9.074325	-23287	-347	9.053029	-6876	-346	9.031383	-6644	-351	9.009387	-6420	-353	8.987039	8.3
8.4	9.230925	-16918	-320	9.212550	-23837	-322	9.193852	-6273	-325	9.174830	-6026	-327	9.155480	-5826	-329	9.135801	8.4
8.5	9.340657	-15491	-294	9.333648	-24337	-296	9.317344	-5703	-299	9.300741	-5546	-302	9.283835	-5391	-304	9.266626	8.5



u	p = 48.0		p = 48.2		p = 48.4		p = 48.6		p = 48.8		p = 49.0		u		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
2.7													2.7		
2.8	0		-0000000	0		-0000000	0		-0000000	0		-0000000	0		2.8
2.9	+1		-0000000	+1		-0000000	+1		-0000000	0		-0000000	+0		2.9
3.0	+1		-0000001	+1		-0000001	+1		-0000001	+1		-0000001	+1		3.0
3.1	+3		-0000003	+2		-0000003	+2		-0000002	+2		-0000002	+2		3.1
3.2	+5		-0000007	+6		-0000006	+5		-0000006	+3		-0000005	+3		3.2
3.3	+12		-0000017	+11		-0000015	+9		-0000014	+8		-0000011	+8		3.3
3.4	+23		-0000037	+19		-0000033	+14		-0000030	+18		-0000027	+17		3.4
3.5	+43		-0000078	+40		-0000071	+35		-0000064	+34		-0000059	+30		3.5
3.6	+76		-0000158	+72		-0000145	+68		-0000132	+61		-0000121	+57		3.6
3.7	+134		-0000310	+124		-0000285	+119		-0000261	+108		-0000240	+100		3.7
3.8	+225	+4	-0000586	+211	+4	-0000541	+196		-0000498	+184		-0000459	+172		3.8
3.9	+366	+6	-0001073	+342	+6	-0000993	+322	+6	-0000919	+301	+5	-0000850	+289	+5	3.9
4.0	+574	+10	-0001902	+541	+10	-0001767	+609	+9	-0001641	+479	+8	-0001523	+452	+5	4.0
4.1	+877	+16	-0003272	+830	+16	-0003050	+784	+14	-0002842	+742	+13	-0002648	+709	+13	4.1
4.2	+1300	+24	-0005472	+1233	+24	-0005117	+1171	+22	-0004785	+1109	+21	-0004472	+1059	+19	4.2
4.3	+1876	+36	-0008905	+1788	+36	-0008355	+1699	+32	-0007836	+1618	+30	-0007348	+1533	+29	4.3
4.4	+2632	+51	-0014124	+2616	+45	-0013292	+2401	+45	-0012505	+2401	+44	-0011762	+2189	+41	4.4
4.5	+3601	+71	-0021858	+3432	+67	-0020630	+3308	+64	-0019466	+3189	+61	-0018364	+3033	+69	4.5
4.6	+4807	+96	-0033044	+4624	+91	-0031276	+4443	+87	-0029596	+4269	+83	-0027999	+4102	+80	4.6
4.7	+6280	+126	-0048851	+6040	+121	-0046365	+5824	+116	-0043995	+5619	+111	-0041736	+5409	+107	4.7
4.8	+7970	+163	-0070698	+7711	+166	-0067278	+7458	+161	-0064007	+7213	+145	-0060882	+6972	+139	4.8
4.9	+9918	+205	-0100256	+9623	+198	-0095649	+9337	+191	-0091232	+9056	+184	-0087000	+8779	+177	4.9
5.0	+12066	+262	-0139437	+11747	+244	-0133357	+11431	+236	-0127513	+11119	+223	-0121897	+10615	+221	5.0
5.1	+14372	+304	-0190365	+14031	+295	-0182496	+13695	+286	-0174913	+11363	+278	-0167609	+13032	+270	5.1
5.2	+16755	+360	-0255324	+18409	+349	-0245330	+16603	+340	-0235676	+15719	+331	-0226353	+16376	+322	5.2
5.3	+19133	+414	-0336692	+19709	+405	-0324227	+18447	+395	-0312157	+15103	+385	-0300472	+17780	+376	5.3
5.4	+21939	+469	-0436850	+21073	+450	-0421571	+20742	+450	-0406741	+20424	+440	-0392351	+20095	+430	5.4
5.5	+25432	+530	-0558081	+23150	+611	-0539664	+22892	+501	-0521749	+22587	+493	-0504325	+22289	+483	5.5
5.6	+29132	+565	-0702462	+24903	+656	-0680619	+24667	+548	-0659324	+24242	+539	-0638568	+24173	+530	5.6
5.7	+33689	+601	-0871746	+26231	+694	-0846241	+26062	+588	-0821323	+25382	+579	-0796984	+25993	+571	5.7
5.8	+39108	+627	-1067261	+27024	+691	-1037925	+26944	+615	-1009204	+26842	+609	-0981093	+26729	+603	5.8
5.9	+47213	+640	-1289805	+27230	+682	-1256550	+27232	+623	-1223927	+27220	+627	-1191931	+27197	+623	5.9
6.0	+58660	+639	-1539579	+26773	+637	-1502407	+26874	+635	-1465870	+26690	+639	-1429966	+27030	+630	6.0
6.1	+72430	+623	-1816126	+26645	+623	-1775138	+25842	+623	-1734773	+26026	+623	-1695031	+26195	+622	6.1
6.2	+88684	+622	-2118318	+23844	+595	-2073711	+24140	+597	-2029702	+24419	+599	-1986291	+24674	+601	6.2
6.3	+10719	+548	-2444354	+21416	+652	-2396424	+21799	+557	-2349050	+22171	+661	-2302237	+22527	+654	6.3
6.4	+12958	+490	-2791806	+18428	+497	-2740936	+18388	+503	-2690569	+19337	+509	-2640710	+19776	+615	6.4
6.5	+14439	+421	-3157686	+14970	+430	-3104336	+15496	+438	-3051425	+16010	+446	-2998959	+16514	+443	6.5
6.6	+16882	+344	-3538536	+11169	+354	-3483232	+11726	+363	-3428291	+12288	+373	-3373722	+12844	+382	6.6
6.7	+20119	+270	-3930545	+7156	+271	-3873854	+7711	+282	-3817445	+8263	+293	-3761329	+8286	+303	6.7
6.8	+23667	+154	-4329669	+2970	+185	-4272187	+4873	+197	-4214902	+4174	+208	-4157825	+4776	+219	6.8
6.9	+27333	+86	-4731763	-1144	+98	-4674093	-543	+110	-4616533	-4	+122	-4559096	+635	+134	6.9
7.0	-5667	+3	-5132713	-6108	+14	-5075446	-4545	+25	-5018205	-3979	+37	-4961000	-3407	+49	7.0
7.1	-9324	-79	-5528555	-8812	-67	-5472254	-3293	-58	-5415898	-7769	-45	-5359497	-7239	-33	7.1
7.2	-12620	-159	-5915585	-12186	-142	-5860769	-11763	-131	-5805822	-11281	-120	-5750755	-10763	-110	7.2
7.3	-16483	-217	-6290450	-15995	-208	-6237581	-14697	-198	-6184515	-14292	-188	-6131260	-13676	-179	7.3
7.4	-20850	-273	-6650219	-17584	-265	-6599696	-17298	-266	-6548916	-16881	-243	-6497889	-16516	-239	7.4
7.5	-25711	-319	-6992436	-19509	-312	-6944583	-19257	-304	-6896426	-18995	-297	-6847972	-18722	-299	7.5
7.6	-31126	-354	-7315143	-20971	-348	-7270213	-20751	-342	-7224941	-20598	-338	-7179333	-20396	-330	7.6
7.7	-37008	-378	-7616891	-21910	-374	-7575062	-21804	-370	-7532863	-21688	-365	-7490299	-21561	-360	7.7
7.8	-43456	-393	-7896729	-22894	-390	-7858107	-22854	-387	-7819097	-22803	-384	-7779704	-22445	-380	7.8
7.9	-50473	-399	-8154173	-22446	-398	-8118798	-22465	-395	-8083028	-22473	-394	-8046864	-22480	-391	7.9
8.0	-58041	-397	-8389171	-22118	-396	-8357024	-22190	-396	-8324481	-22253	-395	-8291544	-22311	-394	8.0
8.1	-66233	-388	-8602051	-21465	-389	-8573060	-21380	-389	-8543681	-21691	-389	-8513913	-21703	-388	8.1
8.2	-75000	-374	-8793466	-20545	-375	-8767516	-20698	-376	-8741190	-20839	-376	-8714489	-20981	-377	8.2
8.3	-85336	-354	-8964336	-19416	-356	-8941276	-19591	-358	-8917860	-19765	-359	-8894084	-19934	-361	8.3
8.4	-97297	-332	-9115790	-18134	-334	-9095445	-18330	-336	-9074764	-18522	-338	-9053745	-18712	-340	8.4
8.5	-110944	-307	-9249110	-16753	-308	-9231284	-16939	-312	-9213146	-17189	-314	-9194694	-17367	-317	8.5



$u$	$p = 47.0$		$p = 47.2$		$p = 47.4$		$p = 47.6$		$p = 47.8$		$p = 48.0$						
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$u$			
8.5	.9349657	-16491 +16	-294	.9333648	-15701 +22	-296	.9317344	-16916 +28	-299	.9300741	-16128 +33	-302	.9283835	-16334 +35	-304	.9266626	8.5
8.6	.9452898	-14043 -29	-266	.9439045	-14258 -14	-269	.9424921	-14468 -8	-279	.9410526	-14681 -2	-275	.9395855	-14894 -4	-276	.9380907	8.6
8.7	.9542096	-12616 -11	-240	.9530184	-12823 -41	-243	.9518030	-13033 -39	-245	.9505630	-13241 -29	-249	.9492981	-13449 -37	-251	.9480082	8.7
8.8	.9618678	-11235 -68	-213	.9608500	-11433 -65	-216	.9598106	-11633 -62	-219	.9587493	-11834 -52	-223	.9576658	-12037 -51	-225	.9565597	8.8
8.9	.9684025	-9919 -86	-188	.9675383	-10107 -86	-191	.9666549	-10295 -90	-194	.9657522	-10486 -72	-197	.9648298	-10678 -72	-199	.9638874	8.9
9.0	.9739453	-8689 -95	-165	.9732159	-8864 -93	-187	.9724697	-9039 -91	-170	.9717065	-9216 -94	-173	.9709260	-9394 -87	-176	.9701280	9.0
9.1	.9786192	-7583 -99	-143	.9780071	-7710 -99	-146	.9773806	-7873 -99	-145	.9767392	-8036 -96	-150	.9760828	-8201 -97	-153	.9754111	9.1
9.2	.9825378	-6515 -102	-123	.9820273	-6661 -102	-125	.9815042	-6806 -103	-128	.9809683	-6954 -102	-130	.9804195	-7105 -101	-133	.9798574	9.2
9.3	.9858049	-5522 -102	-105	.9853814	-5711 -100	-107	.9849472	-5842 -101	-109	.9845020	-5975 -103	-111	.9840457	-6109 -102	-113	.9835781	9.3
9.4	.9885138	-4749 -96	-89	.9881644	-4862 -99	-91	.9878060	-4979 -99	-93	.9874382	-5096 -99	-95	.9870610	-5216 -101	-97	.9866742	9.4
9.5	.9907478	-4012 -92	-76	.9904612	-4113 -93	-77	.9901669	-4214 -94	-78	.9898648	-4319 -95	-80	.9895547	-4426 -95	-82	.9892364	9.5
9.6	.9925806	-3379 -85	-63	.9923467	-3457 -87	-64	.9921064	-3546 -86	-66	.9918595	-3638 -86	-67	.9916058	-3726 -86	-69	.9913454	9.6
9.7	.9940764	-2811 -78	-52	.9938865	-2885 -80	-53	.9936913	-2963 -80	-55	.9934906	-3041 -82	-68	.9932843	-3121 -82	-67	.9930722	9.7
9.8	.9952911	-2331 -71	-43	.9951378	-2397 -71	-44	.9949799	-2459 -73	-46	.9948176	-2527 -74	-46	.9946507	-2597 -75	-47	.9944790	9.8
9.9	.9962727	-1923 -63	-35	.9961494	-1976 -64	-36	.9960225	-2033 -65	-37	.9958919	-2090 -66	-38	.9957574	-2146 -67	-39	.9956191	9.9
10.0	.9970620	-1576 -55	-29	.9969634	-1622 -56	-30	.9968618	-1678 -58	-30	.9967572	-1715 -59	-31	.9966495	-1765 -60	-33	.9965386	10.0
10.1	.9976937	-1295 -48	-23	.9976152	-1323 -49	-24	.9975343	-1352 -50	-25	.9974510	-1383 -51	-25	.9973651	-1413 -52	-26	.9972766	10.1
10.2	.9981969	-1041 -41	-19	.9981347	-1073 -43	-20	.9980706	-1105 -43	-20	.9980045	-1138 -44	-30	.9979364	-1174 -46	-21	.9978661	10.2
10.3	.9985960	-841 -36	-16	.9985469	-868 -37	-16	.9984964	-894 -37	-16	.9984442	-921 -38	-16	.9983903	-947 -39	-17	.9983348	10.3
10.4	.9989110	-674 -30	-13	.9988725	-696 -29	-12	.9988328	-717 -32	-13	.9987918	-740 -33	-13	.9987495	-764 -33	-14	.9987058	10.4
10.5	.9991586	-536 -25	-10	.9991285	-555 -23	-10	.9990975	-574 -27	-10	.9990654	-592 -28	-10	.9990323	-611 -27	-11	.9989981	10.5
10.6	.9993524	-429 -21	-8	.9993290	-442 -18	-8	.9993048	-456 -23	-9	.9992798	-470 -23	-9	.9992540	-485 -23	-9	.9992274	10.6
10.7	.9995034	-338 -18	-6	.9994853	-359 -15	-6	.9994665	-380 -19	-6	.9994472	-374 -19	-7	.9994272	-387 -19	-7	.9994065	10.7
10.8	.9996206	-256 -15	-6	.9996066	-274 -12	-5	.9995922	-285 -15	-5	.9995772	-293 -15	-5	.9995617	-303 -18	-5	.9995458	10.8
10.9	.9997112	-208 -12	-4	.9997005	-217 -10	-4	.9996894	-224 -12	-4	.9996779	-232 -12	-4	.9996660	-239 -13	-4	.9996536	10.9
11.0	.9997810	-163 -9		.9997727	-167 -8		.9997642	-174 -10		.9997554	-180 -10		.9997463	-186 -11		.9997369	11.0
11.1	.9998345	-127 -7		.9998282	-132 -6		.9998217	-135 -8		.9998150	-141 -8		.9998080	-145 -9		.9998008	11.1
11.2	.9998753	-97 -6		.9998706	-102 -5		.9998656	-104 -7		.9998605	-105 -7		.9998552	-113 -8		.9998498	11.2
11.3	.9999064	-75 -6		.9999028	-78 -5		.9998991	-80 -6		.9998952	-83 -6		.9998912	-87 -7		.9998871	11.3
11.4	.9999300	-58 -4		.9999273	-59 -4		.9999245	-62 -4		.9999215	-64 -4		.9999185	-66 -6		.9999154	11.4
11.5	.9999478	-44 -3		.9999458	-46 -3		.9999437	-48 -3		.9999415	-51 -3		.9999392	-51 -5		.9999368	11.5
11.6	.9999612	-33 -2		.9999597	-35 -2		.9999581	-36 -2		.9999565	-39 -2		.9999548	-39 -3		.9999530	11.6
11.7	.9999713	-25 -1		.9999701	-28 -1		.9999689	-27 -1		.9999677	-28 -1		.9999665	-30 -1		.9999651	11.7
11.8	.9999788	-19 -1		.9999779	-19 -1		.9999771	-21 -1		.9999762	-23 -1		.9999752	-23 -1		.9999742	11.8
11.9	.9999844	-15 -1		.9999838	-15 -1		.9999831	-18 -1		.9999824	-16 -1		.9999817	-17 -1		.9999810	11.9
12.0	.9999885	-13 -1		.9999881	-12 -1		.9999876	-12 -1		.9999871	-12 -1		.9999866	-13 -1		.9999860	12.0
12.1	.9999916	-8 -1		.9999913	-9 -1		.9999909	-9 -1		.9999906	-9 -1		.9999902	-10 -1		.9999898	12.1
12.2	.9999939	-8 -1		.9999936	-7 -1		.9999934	-7 -1		.9999931	-7 -1		.9999928	-7 -1		.9999925	12.2
12.3	.9999955	-4 -1		.9999954	-5 -1		.9999952	-5 -1		.9999950	-5 -1		.9999948	-6 -1		.9999946	12.3
12.4	.9999968			.9999966	-4 -1		.9999965	-4 -1		.9999964	-4 -1		.9999962	-6 -1		.9999961	12.4
12.5	.9999977			.9999976			.9999975			.9999974			.9999973			.9999971	12.5
12.6	.9999983			.9999983			.9999982			.9999981			.9999980			.9999979	12.6
12.7	.9999988			.9999987			.9999987			.9999986			.9999986			.9999985	12.7
12.8	.9999991			.9999991			.9999991			.9999990			.9999990			.9999989	12.8
12.9	.9999994			.9999994			.9999993			.9999993			.9999993			.9999992	12.9
13.0	.9999996			.9999995			.9999995			.9999995			.9999995			.9999994	13.0
13.1	.9999997			.9999997			.9999997			.9999996			.9999996			.9999996	13.1
13.2	.9999998			.9999998			.9999998			.9999997			.9999997			.9999997	13.2
13.3	.9999998			.9999998			.9999998			.9999998			.9999998			.9999998	13.3
13.4	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	13.4
13.5	.9999999			.9999999			.9999999			.9999999			.9999999			.9999999	13.5
13.6	1.0000000			1.0000000			.9999999			.9999999			.9999999			.9999999	13.6
13.7							1.0000000			1.0000000			1.0000000			1.0000000	13.7

u	p = 48.0		p = 48.2		p = 48.4		p = 48.6		p = 48.8		p = 49.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$ $\delta_p^2$ $\delta_p^4$						
8.5	-18544 +55	-307	.9249110	-16763 +55	-309	.9231284	-16949 +81	-312	.9213146	-17163 +76	-314	.9194694	-17387 +74	-317	.9175925	-17588 +80	-319	8.5
8.6	-13106 +18	-261	.9365677	-15319 +8	-284	.9350164	-16627 +13	-286	.9334365	-16738 +28	-289	.9318276	-16948 +28	-291	.9301896	-16154 +34	-294	8.6
8.7	-13860 -16	-254	.9466928	-13870 -24	-237	.9453517	-14090 -18	-240	.9439846	-14289 -42	-243	.9425912	-14499 -38	-246	.9411713	-14710 -31	-249	8.7
8.8	12238 -43	-228	.9554309	-12443 -63	-231	.9542790	-12646 -43	-234	.9531038	-12832 -42	-237	.9519049	-13058 -38	-239	.9506820	-13263 -31	-242	8.8
8.9	-10871 -82	-202	.9629248	-11065 -70	-205	.9619417	-11281 -80	-208	.9609378	-11457 -65	-211	.9599128	-11855 -62	-214	.9588664	-11854 -50	-218	8.9
9.0	-9675 -80	-178	.9693122	-9757 -84	-181	.9684783	-9941 -79	-184	.9676261	-10127 -81	-186	.9667552	-10313 -81	-189	.9658654	-10501 -74	-193	9.0
9.1	-8369 -95	-165	.9747239	-8337 -93	-168	.9740208	-8706 -87	-161	.9733017	-8878 -94	-163	.9725663	-9052 -92	-166	.9718143	-9227 -88	-168	9.1
9.2	-7259 -102	-134	.9792819	-7410 -101	-137	.9786927	-7967 -100	-139	.9780895	-7738 -109	-143	.9774722	-7883 -102	-144	.9768405	-8045 -95	-148	9.2
9.3	-6246 -103	-116	.9830989	-6385 -104	-118	.9826079	-6525 -102	-120	.9821050	-6389 -102	-122	.9815898	-6212 -102	-124	.9810622	-6958 -103	-123	9.3
9.4	-5339 -100	-98	.9862774	-5482 -101	-100	.9858706	-5588 -103	-102	.9854536	-5715 -102	-104	.9850262	-5848 -108	-106	.9845881	-5977 -103	-108	9.4
9.5	-4532 -96	-83	.9889097	-4641 -97	-85	.9885745	-4752 -95	-87	.9882307	-4865 -98	-89	.9878780	-4980 -98	-90	.9875163	-5097 -100	-92	9.5
9.6	-3822 -92	-70	.9910779	-3917 -81	-71	.9908032	-4014 -93	-73	.9905213	-4114 -94	-75	.9902318	-4213 -94	-76	.9899348	-4316 -86	-78	9.6
9.7	-3200 -84	-58	.9928544	-3285 -85	-60	.9926305	-3368 -86	-61	.9924005	-3454 -88	-63	.9921643	-3543 -88	-64	.9919217	-3632 -89	-65	9.7
9.8	-2667 -78	-48	.9943024	-2738 -78	-50	.9941209	-2810 -78	-51	.9939343	-2884 -80	-52	.9937425	-2959 -82	-53	.9935454	-3038 -82	-54	9.8
9.9	-2208 -68	-40	.9954768	-2287 -70	-41	.9953303	-2325 -71	-42	.9951797	-2391 -73	-43	.9950248	-2456 -73	-44	.9948655	-2523 -74	-45	9.9
10.0	-1815 -81	-33	.9964245	-1887 -82	-34	.9963069	-1919 -83	-34	.9961860	-1974 -84	-35	.9960615	-2029 -85	-36	.9959333	-2082 -86	-37	10.0
10.1	-1485 -53	-27	.9971855	-1528 -66	-27	.9970916	-1572 -63	-28	.9969949	-1616 -57	-29	.9968954	-1663 -57	-30	.9967929	-1711 -55	-30	10.1
10.2	-1308 -46	-22	.9977937	-1343 -47	-22	.9977191	-1289 -43	-23	.9976422	-1318 -50	-23	.9975630	-1358 -51	-24	.9974814	-1398 -52	-23	10.2
10.3	-977 -40	-17	.9982776	-1008 -41	-18	.9982186	-1035 -42	-18	.9981577	-1069 -43	-19	.9980950	-1102 -43	-19	.9980303	-1134 -45	-20	10.3
10.4	-787 -84	-14	.9986607	-810 -35	-14	.9986143	-888 -36	-15	.9985663	-923 -37	-15	.9985168	-957 -38	-16	.9984658	-984 -38	-16	10.4
10.5	-680 -29	-11	.9989628	-651 -28	-11	.9989264	-671 -31	-12	.9988887	-691 -30	-12	.9988499	-713 -32	-13	.9988099	-739 -32	-13	10.5
10.6	-592 -24	-9	.9991998	-517 -25	-9	.9991714	-534 -27	-9	.9991420	-551 -28	-10	.9991117	-569 -27	-10	.9990804	-587 -27	-10	10.6
10.7	-398 -20	-7	.9993851	-412 -21	-7	.9993630	-424 -22	-7	.9993402	-439 -21	-8	.9993166	-453 -22	-8	.9992922	-487 -23	-8	10.7
10.8	-315 -17	-6	.9995292	-324 -18	-6	.9995121	-338 -18	-6	.9994945	-347 -18	-6	.9994762	-357 -18	-6	.9994573	-369 -19	-6	10.8
10.9	-246 -13	-4	.9996409	-255 -14	-4	.9996277	-264 -15	-4	.9996141	-271 -15	-5	.9996001	-289 -15	-5	.9995855	-291 -18	-5	10.9
11.0	-188 -11		.9997271	-198 -11		.9997170	-207 -12		.9997066	-214 -12	-4	.9996957	-220 -13	-4	.9996846	-229 -13	-4	11.0
11.1	-150 -9		.9997934	-158 -9		.9997856	-161 -9		.9997777	-166 -10		.9997694	-173 -10		.9997608	-177 -10		11.1
11.2	-117 -7		.9998441	-120 -8		.9998382	-124 -8		.9998321	-128 -9		.9998258	-134 -8		.9998193	-138 -9		11.2
11.3	-90 -8		.9998828	-93 -8		.9998783	-95 -8		.9998737	-100 -7		.9998689	-104 -8		.9998640	-107 -7		11.3
11.4	-69 -5		.9999122	-71 -6		.9999088	-74 -5		.9999053	-77 -5		.9999017	-80 -6		.9998980	-82 -5		11.4
11.5	-53 -4		.9999344	-54 -4		.9999319	-57 -4		.9999292	-58 -4		.9999265	-61 -4		.9999237	-63 -4		11.5
11.6	-40 -3		.9999512	-42 -3		.9999493	-43 -3		.9999473	-45 -3		.9999453	-47 -3		.9999432	-49 -3		11.6
11.7	-30 -2		.9999638	-32 -2		.9999624	-33 -2		.9999609	-34 -2		.9999594	-36 -2		.9999578	-37 -2		11.7
11.8	-23 -1		.9999732	-23 -1		.9999722	-23 -1		.9999711	-23 -1		.9999699	-27 -1		.9999688	-28 -1		11.8
11.9	-18 -1		.9999803	-18 -1		.9999795	-19 -1		.9999787	-20 -1		.9999778	-20 -1		.9999770	-21 -1		11.9
12.0	-13 -1		.9999855	-13 -1		.9999849	-14 -1		.9999843	-15 -1		.9999837	-15 -1		.9999831	-16 -1		12.0
12.1	-10 -1		.9999894	-10 -1		.9999889	-10 -1		.9999885	-11 -1		.9999881	-12 -1		.9999876	-12 -1		12.1
12.2	-7 -1		.9999922	-8 -1		.9999919	-8 -1		.9999916	-8 -1		.9999913	-9 -1		.9999909	-9 -1		12.2
12.3	-5 -1		.9999943	-8 -1		.9999941	-8 -1		.9999939	-6 -1		.9999936	-8 -1		.9999934	-7 -1		12.3
12.4	-4 -1		.9999959	-4 -1		.9999957	-4 -1		.9999956	-5 -1		.9999954	-5 -1		.9999952	-5 -1		12.4
12.5			.9999970			.9999969			.9999968	-4		.9999967	-4		.9999965	-4		12.5
12.6			.9999979			.9999978			.9999977			.9999976			.9999975			12.6
12.7			.9999984			.9999984			.9999983			.9999983			.9999982			12.7
12.8			.9999989			.9999988			.9999988			.9999987			.9999987			12.8
12.9			.9999992			.9999992			.9999991			.9999991			.9999991			12.9
13.0			.9999994			.9999994			.9999994			.9999994			.9999993			13.0
13.1			.9999996			.9999996			.9999996			.9999995			.9999995			13.1
13.2			.9999997			.9999997			.9999997			.9999997			.9999997			13.2
13.3			.9999998			.9999998			.9999998			.9999998			.9999998			13.3
13.4			.9999999			.9999998			.9999998			.9999998			.9999998			13.4
13.5			.9999999			.9999999			.9999999			.9999999			.9999999			13.5
13.6			.9999999			.9999999			.9999999			.9999999			.9999999			13.6
13.7			1.0000000			1.0000000			1.0000000			1.0000000			1.0000000			13.7



u	p = 49.0				p = 49.2				p = 49.4				p = 49.6				p = 49.8				p = 50.0				u
	I(u, p)	$\delta_u^2$	$\delta_u^4$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_u^4$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_u^4$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_u^4$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_u^4$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_u^4$	$\delta_p^2$	
2.8	0.000000				0.000000				0.000000				0.000000				0.000000				0.000000				2.8
2.9	0.000000				0.000000				0.000000				0.000000				0.000000				0.000000				2.9
3.0	0.000001	+1			0.000001	+1			0.000001	+1			0.000001	+1			0.000001	+1			0.000001	+1			3.0
3.1	0.000002	+2			0.000002	+2			0.000002	+2			0.000002	+2			0.000002	+2			0.000002	+2			3.1
3.2	0.000005	+3			0.000004	+3			0.000004	+3			0.000003	+3			0.000003	+3			0.000003	+3			3.2
3.3	0.000011	+4			0.000010	+4			0.000009	+4			0.000008	+4			0.000007	+4			0.000007	+4			3.3
3.4	0.000025	+6			0.000022	+5			0.000020	+5			0.000018	+5			0.000017	+5			0.000015	+4			3.4
3.5	0.000053	+8			0.000049	+7			0.000044	+7			0.000040	+7			0.000037	+7			0.000033	+6			3.5
3.6	0.000111	+11			0.000101	+9			0.000092	+9			0.000084	+9			0.000077	+9			0.000070	+8			3.6
3.7	0.000220	+17			0.000202	+13			0.000185	+13			0.000170	+13			0.000156	+13			0.000143	+11			3.7
3.8	0.000423	+24			0.000390	+19			0.000359	+19			0.000331	+19			0.000304	+19			0.000280	+16			3.8
3.9	0.000786	+35			0.000727	+26			0.000672	+26			0.000621	+26			0.000574	+26			0.000530	+21			3.9
4.0	0.001414	+45			0.001312	+33			0.001217	+33			0.001129	+33			0.001047	+33			0.000970	+26			4.0
4.1	0.002467	+65			0.002297	+47			0.002138	+47			0.001990	+47			0.001852	+47			0.001722	+37			4.1
4.2	0.004179	+95			0.003904	+67			0.003647	+67			0.003405	+67			0.003179	+67			0.002967	+53			4.2
4.3	0.006889	+135			0.006456	+97			0.006050	+97			0.005667	+97			0.005307	+97			0.004969	+77			4.3
4.4	0.011060	+185			0.010398	+137			0.009773	+137			0.009183	+137			0.008626	+137			0.008102	+103			4.4
4.5	0.017319	+245			0.016330	+187			0.015394	+187			0.014508	+187			0.013669	+187			0.012876	+143			4.5
4.6	0.026482	+315			0.025042	+247			0.023673	+247			0.022375	+247			0.021142	+247			0.019972	+187			4.6
4.7	0.039583	+395			0.037533	+317			0.035580	+317			0.033721	+317			0.031952	+317			0.030268	+243			4.7
4.8	0.055785	+485			0.053043	+397			0.0505218	+397			0.048171	+397			0.045924	+397			0.043865	+317			4.8
4.9	0.082944	+585			0.079060	+487			0.075340	+487			0.071779	+487			0.068370	+487			0.065109	+397			4.9
5.0	0.116503	+695			0.111322	+587			0.106347	+587			0.101572	+587			0.096990	+587			0.092594	+487			5.0
5.1	0.160574	+815			0.153800	+687			0.147279	+687			0.141004	+687			0.134966	+687			0.129159	+587			5.1
5.2	0.217351	+945			0.208662	+787			0.200277	+787			0.192188	+787			0.184385	+787			0.176861	+687			5.2
5.3	0.289163	+1085			0.278220	+887			0.267635	+887			0.257398	+887			0.247501	+887			0.237933	+787			5.3
5.4	0.378392	+1235			0.364853	+987			0.351726	+987			0.339001	+987			0.326668	+987			0.314719	+887			5.4
5.5	0.487384	+1395			0.470917	+1087			0.454913	+1087			0.439364	+1087			0.424261	+1087			0.409594	+987			5.5
5.6	0.618343	+1565			0.598639	+1187			0.579449	+1187			0.560762	+1187			0.542570	+1187			0.524865	+1087			5.6
5.7	0.773216	+1745			0.750011	+1287			0.727362	+1287			0.705260	+1287			0.683698	+1287			0.662666	+1187			5.7
5.8	0.953584	+1935			0.926671	+1387			0.900347	+1387			0.874607	+1387			0.849441	+1387			0.824845	+1287			5.8
5.9	1.160558	+2135			1.129802	+1487			1.099660	+1487			1.070124	+1487			1.041190	+1487			1.012852	+1387			5.9
6.0	1.394691	+2345			1.360043	+1587			1.326018	+1587			1.292613	+1587			1.259823	+1587			1.227646	+1487			6.0
6.1	1.655911	+2565			1.617413	+1687			1.579535	+1687			1.542276	+1687			1.505633	+1687			1.469606	+1587			6.1
6.2	1.943482	+2795			1.901273	+1787			1.859668	+1787			1.818666	+1787			1.778268	+1787			1.738473	+1687			6.2
6.3	2.255989	+3035			2.210308	+1887			2.165199	+1887			2.120663	+1887			2.076703	+1887			2.033321	+1787			6.3
6.4	2.591367	+3285			2.542544	+1987			2.494247	+1987			2.446480	+1987			2.399247	+1987			2.352554	+1887			6.4
6.5	2.946947	+3545			2.895395	+2087			2.844311	+2087			2.793702	+2087			2.743573	+2087			2.693931	+1987			6.5
6.6	3.319535	+3815			3.265740	+2187			3.212343	+2187			3.159355	+2187			3.106783	+2187			3.054634	+2087			6.6
6.7	3.705516	+4095			3.650016	+2287			3.594839	+2287			3.539995	+2287			3.485493	+2287			3.431343	+2187			6.7
6.8	4.100967	+4385			4.044340	+2387			3.987954	+2387			3.931820	+2387			3.875949	+2387			3.820350	+2287			6.8
6.9	4.501792	+4685			4.444633	+2487			4.387631	+2487			4.330797	+2487			4.274141	+2487			4.217676	+2387			6.9
7.0	4.903845	+4995			4.846749	+2587			4.789726	+2587			4.732785	+2587			4.675940	+2587			4.619200	+2487			7.0
7.1	5.303063	+5315			5.246607	+2687			5.190140	+2687			5.133674	+2687			5.077221	+2687			5.020791	+2587			7.1
7.2	5.695579	+5645			5.640303	+2787			5.584940	+2787			5.529500	+2787			5.473993	+2787			5.418432	+2687			7.2
7.3	6.077826	+5985			6.024224	+2887			5.970464	+2887			5.916554	+2887			5.862507	+2887			5.808331	+2787			7.3
7.4	6.446622	+6335			6.395126	+2987			6.343409	+2987			6.291480	+2987			6.239347	+2987			6.187022	+2887			7.4
7.5	6.799229	+6695			6.750204	+3087			6.700904	+3087			6.651338	+3087			6.601514	+3087			6.551440	+2987			7.5
7.6	7.133395	+7065			7.087133	+3187			7.040554	+3187			6.993665	+3187			6.946471	+3187			6.898981	+3087			7.6
7.7	7.447375	+7445			7.404096	+3287			7.360467	+3287			7.316493	+3287			7.272180	+3287			7.227533	+3187			7.7
7.8	7.739930	+7835			7.699780	+3387			7.659257	+3387			7.618365	+3387			7.577108	+3387			7.535491	+3287			7.8
7.9	8.010309	+8235			7.973365	+3487			7.936035	+3487			7.898321	+3487			7.860227	+3487			7.821756	+3387			7.9
8.0	8.258213	+8645			8.224490	+3587			8.190375	+3587			8.155872	+3587			8.120981	+3587			8.085704	+3487			8.0
8.1	8.483756	+9065			8.453211	+3687			8.422279	+3687			8.390959	+3687			8.359253	+3687			8.327160	+3587			8.1
8.2	8.687410	+9495			8.659953	+3787			8.632119	+3787			8.603906	+3787			8.575314	+3787			8.546343	+3687			8.2
8.3	8.869948	+9935			8.845449	+3887			8.820588	+3887			8.795363	+3887			8.769772	+3887			8.743815	+3787			8.3
8.4	9.032386	+10385			9.010684	+3987			8.988640	+3987			8.966249	+3987			8.943512	+3987			8.920426	+3887			8.4
8.5	9.175925	+10845			9.156837	+4087			9.137427	+4087			9.117694	+4087			9.097636	+4087			9.077250	+3987			8.5



u	p = 49.0		p = 49.2		p = 49.4		p = 49.6		p = 49.8		p = 50.0		u						
	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$	I(u, p)	$\delta_u^2$ $\delta_p^2$							
8.5	.9175925	-17658 +80	-319	.9156837	-17788 +91	-321	.9137427	-17983 +95	-323	.9117694	-18165 +101	-326	.9097636	-18350 +108	-328	.9077250	-18541 +116	-330	8.5
8.6	.9301896	-16164 +94	-294	.9285222	-16302 +91	-297	.9268251	-16509 +87	-299	.9250981	-16774 +81	-302	.9233409	-16979 +74	-304	.9215533	-17179 +66	-306	8.6
8.7	.9411713	-14710 -1	-269	.9397245	-14919 +1	-271	.9382506	-15127 +7	-274	.9367494	-15337 +18	-276	.9352205	-15544 +18	-279	.9336637	-15763 +25	-282	8.7
8.8	.9506820	-13263 -91	-249	.9494349	-13469 -31	-246	.9481634	-13678 -25	-248	.9468670	-13854 -16	-251	.9455456	-14092 -16	-254	.9441988	-14298 -13	-257	8.8
8.9	.9588664	-11854 -90	-218	.9577984	-12034 -84	-219	.9567084	-12233 -84	-222	.9555962	-12466 -48	-225	.9544615	-12686 -46	-228	.9533041	-12860 -41	-231	8.9
9.0	.9658654	-10501 -74	-199	.9649565	-10691 -74	-194	.9640281	-10882 -73	-197	.9630799	-11073 -70	-200	.9621118	-11267 -66	-203	.9611234	-11461 -66	-206	9.0
9.1	.9718143	-9227 -66	-168	.9710455	-9404 -61	-171	.9702596	-9593 -69	-174	.9694563	-9784 -65	-176	.9686354	-9974 -61	-179	.9677966	-10128 -61	-182	9.1
9.2	.9768405	-8045 -96	-146	.9761941	-8207 -98	-149	.9755328	-8372 -98	-160	.9748563	-8537 -98	-164	.9741645	-8706 -95	-167	.9734570	-8876 -92	-169	9.2
9.3	.9810622	-6959 -103	-126	.9805220	-7108 -101	-129	.9799688	-7267 -103	-131	.9794026	-7410 -101	-134	.9788230	-7554 -101	-136	.9782298	-7713 -104	-139	9.3
9.4	.9845881	-5977 -103	-108	.9841391	-6109 -108	-110	.9836791	-6245 -103	-112	.9832079	-6383 -102	-116	.9827251	-6520 -103	-117	.9822307	-6661 -103	-119	9.4
9.5	.9875163	-5097 -100	-92	.9871453	-5216 -100	-94	.9867649	-5355 -100	-98	.9863749	-5457 -102	-98	.9859752	-5589 -101	-100	.9855655	-5709 -101	-102	9.5
9.6	.9899348	-4316 -95	-78	.9896299	-4420 -97	-80	.9893172	-4528 -97	-81	.9889962	-4634 -99	-83	.9886670	-4743 -99	-85	.9883294	-4856 -99	-87	9.6
9.7	.9919217	-3632 -89	-55	.9916725	-3723 -91	-67	.9914167	-3816 -91	-68	.9911541	-3911 -91	-70	.9908845	-4007 -91	-71	.9906077	-4103 -91	-73	9.7
9.8	.9935454	-3036 -92	-64	.9933428	-3114 -89	-56	.9931347	-3194 -84	-57	.9929209	-3275 -85	-58	.9927013	-3359 -86	-60	.9924757	-3445 -87	-60	9.8
9.9	.9948655	-2523 -74	-45	.9947017	-2591 -76	-46	.9945333	-2660 -76	-47	.9943601	-2729 -78	-48	.9941822	-2801 -78	-49	.9939992	-2873 -80	-50	9.9
10.0	.9959333	-2089 -96	-37	.9958015	-2140 -98	-38	.9956659	-2198 -98	-39	.9955264	-2258 -97	-40	.9953830	-2320 -71	-41	.9952354	-2382 -72	-42	10.0
10.1	.9967929	-1711 -88	-30	.9966873	-1768 -89	-31	.9965787	-1806 -88	-32	.9964669	-1859 -89	-33	.9963518	-1909 -83	-33	.9962334	-1963 -84	-34	10.1
10.2	.9974814	-1396 -82	-25	.9973973	-1437 -89	-25	.9973107	-1478 -85	-26	.9972215	-1520 -86	-27	.9971297	-1564 -87	-27	.9970351	-1605 -87	-28	10.2
10.3	.9980303	-1134 -62	-20	.9979636	-1167 -66	-20	.9978949	-1201 -67	-21	.9978241	-1236 -68	-22	.9977512	-1273 -69	-22	.9976760	-1309 -69	-23	10.3
10.4	.9984658	-914 -58	-16	.9984132	-942 -59	-16	.9983590	-972 -60	-17	.9983031	-1002 -60	-17	.9982454	-1030 -62	-18	.9981860	-1062 -63	-18	10.4
10.5	.9988099	-736 -52	-13	.9987686	-766 -53	-13	.9987259	-790 -54	-13	.9986819	-804 -56	-14	.9986366	-820 -56	-14	.9985898	-835 -56	-15	10.5
10.6	.9990804	-687 -57	-10	.9990481	-705 -58	-10	.9990148	-726 -59	-11	.9989803	-744 -60	-11	.9989448	-764 -60	-11	.9989081	-784 -60	-12	10.6
10.7	.9992922	-607 -52	-8	.9992671	-628 -59	-8	.9992411	-647 -59	-9	.9992143	-664 -59	-9	.9991866	-683 -59	-9	.9991580	-704 -59	-9	10.7
10.8	.9994573	-509 -49	-6	.9994378	-530 -49	-6	.9994177	-544 -49	-7	.9993969	-567 -49	-7	.9993754	-590 -49	-7	.9993532	-614 -49	-7	10.8
10.9	.9995855	-421 -46	-6	.9995705	-431 -46	-6	.9995549	-444 -47	-6	.9995388	-460 -47	-6	.9995222	-481 -46	-6	.9995050	-501 -46	-6	10.9
11.0	.9996846	-329 -43	-4	.9996730	-336 -43	-4	.9996611	-346 -44	-4	.9996487	-362 -44	-5	.9996359	-380 -43	-5	.9996227	-399 -43	-5	11.0
11.1	.9997608	-277 -40	-4	.9997520	-284 -40	-4	.9997428	-289 -40	-4	.9997334	-297 -41	-4	.9997236	-304 -41	-4	.9997134	-310 -41	-4	11.1
11.2	.9998193	-238 -38	-9	.9998126	-243 -38	-9	.9998056	-248 -38	-9	.9997984	-253 -38	-9	.9997909	-259 -38	-9	.9997832	-264 -38	-9	11.2
11.3	.9998640	-197 -37	-7	.9998589	-201 -37	-7	.9998536	-205 -37	-7	.9998481	-209 -37	-7	.9998424	-214 -37	-7	.9998365	-218 -37	-7	11.3
11.4	.9998980	-158 -35	-5	.9998941	-161 -35	-5	.9998901	-164 -35	-5	.9998859	-167 -35	-5	.9998816	-170 -35	-5	.9998772	-173 -35	-5	11.4
11.5	.9999237	-123 -34	-4	.9999208	-126 -34	-4	.9999178	-128 -34	-4	.9999147	-130 -34	-4	.9999114	-132 -34	-4	.9999080	-134 -34	-4	11.5
11.6	.9999432	-99 -33	-4	.9999410	-101 -33	-4	.9999387	-102 -33	-4	.9999364	-104 -33	-4	.9999339	-105 -33	-4	.9999314	-106 -33	-4	11.6
11.7	.9999578	-80 -32	-3	.9999562	-82 -32	-3	.9999545	-83 -32	-3	.9999527	-84 -32	-3	.9999509	-85 -32	-3	.9999490	-86 -32	-3	11.7
11.8	.9999688	-66 -31	-3	.9999676	-67 -31	-3	.9999663	-68 -31	-3	.9999650	-69 -31	-3	.9999636	-70 -31	-3	.9999622	-71 -31	-3	11.8
11.9	.9999770	-55 -30	-2	.9999761	-56 -30	-2	.9999751	-57 -30	-2	.9999742	-58 -30	-2	.9999732	-59 -30	-2	.9999721	-60 -30	-2	11.9
12.0	.9999831	-46 -29	-2	.9999824	-47 -29	-2	.9999817	-48 -29	-2	.9999810	-49 -29	-2	.9999802	-50 -29	-2	.9999794	-51 -29	-2	12.0
12.1	.9999876	-38 -28	-2	.9999871	-39 -28	-2	.9999866	-40 -28	-2	.9999861	-41 -28	-2	.9999855	-42 -28	-2	.9999849	-43 -28	-2	12.1
12.2	.9999909	-31 -27	-2	.9999906	-32 -27	-2	.9999902	-33 -27	-2	.9999898	-34 -27	-2	.9999894	-35 -27	-2	.9999890	-36 -27	-2	12.2
12.3	.9999934	-25 -26	-2	.9999931	-26 -26	-2	.9999929	-27 -26	-2	.9999926	-28 -26	-2	.9999923	-29 -26	-2	.9999920	-30 -26	-2	12.3
12.4	.9999952	-20 -25	-2	.9999950	-21 -25	-2	.9999948	-22 -25	-2	.9999946	-23 -25	-2	.9999944	-24 -25	-2	.9999942	-25 -25	-2	12.4
12.5	.9999965	-16 -24	-4	.9999964	-17 -24	-4	.9999962	-18 -24	-4	.9999961	-19 -24	-4	.9999959	-20 -24	-4	.9999958	-21 -24	-4	12.5
12.6	.9999975	-13 -23	-4	.9999974	-14 -23	-4	.9999973	-15 -23	-4	.9999972	-16 -23	-4	.9999971	-17 -23	-4	.9999969	-18 -23	-4	12.6
12.7	.9999982	-10 -22	-4	.9999981	-11 -22	-4	.9999981	-12 -22	-4	.9999980	-13 -22	-4	.9999979	-14 -22	-4	.9999978	-15 -22	-4	12.7
12.8	.9999987	-8 -21	-4	.9999986	-9 -21	-4	.9999986	-10 -21	-4	.9999985	-11 -21	-4	.9999985	-12 -21	-4	.9999984	-13 -21	-4	12.8
12.9	.9999991	-7 -20	-4	.9999990	-8 -20	-4	.9999990	-9 -20	-4	.9999990	-10 -20	-4	.9999989	-11 -20	-4	.9999989	-12 -20	-4	12.9
13.0	.9999993	-6 -19	-4	.9999993	-7 -19	-4	.9999993	-8 -19	-4	.9999993	-9 -19	-4	.9999992	-10 -19	-4	.9999992	-11 -19	-4	13.0
13.1	.9999995	-5 -18	-4	.9999995	-6 -18	-4	.9999995	-7 -18	-4	.9999995	-8 -18	-4	.9999995	-9 -18	-4	.9999994	-10 -18	-4	13.1
13.2	.9999997	-4 -17	-4	.9999997	-5 -17	-4	.9999996	-6 -17	-4	.9999996	-7 -17	-4	.9999996	-8 -17	-4	.9999996	-9 -17	-4	13.2
13.3	.9999998	-3 -16	-4	.9999998	-4 -16	-4	.9999997	-5 -16	-4	.9999997	-6 -16	-4	.9999997	-7 -16	-4	.9999997	-8 -16	-4	13.3
13.4	.9999998	-2 -15	-4	.9999998	-3 -15	-4	.9999998	-4 -15	-4	.9999998	-5 -15	-4	.9999998	-6 -15	-4	.9999998	-7 -15	-4	13.4
13.5	.9999999	-1 -14	-4	.9999999	-2 -14	-4	.9999999	-3 -14	-4	.9999999	-4 -14	-4	.9999999	-5 -14	-4	.9999999	-6 -14	-4	13.5
13.6	.9999999	-1 -13	-4	.9999999	-1 -13	-4	.9999999	-1 -13	-4	.9999999	-1 -13	-4	.9999999	-1 -13	-4	.9999999	-1 -13	-4	13.6
13.7	1.0000000	-1 -12	-4	1.0000000	-1 -12	-4	1.0000000	-1 -12	-4	1.0000000	-1 -12	-4	1.0000000	-1 -12	-4	.9999999	-1 -12	-4	13.7
13.8		-1 -11	-4	1.0000000	-1 -11	-4	1.0000000	-1 -11	-4	1.0000000	-1 -11	-4	1.0000000	-1 -11	-4	1.0000000	-1 -11	-4	13.8





TABLE II  
THE  $I(u, p)$  FUNCTION  
FOR NEGATIVE VALUES OF THE ARGUMENT  $p$



$u$	$p = -1.0$				$p = -0.95$				$p = -0.90$				$p = -0.85$				$p = -0.80$				$p = -0.75$	
	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_p^4$	$I(u, p)$	$u$
0.0	0.000000			*	0.000000			*	0.000000			*	0.000000			*	0.000000			*	0.000000	0
0.1	1.0000000				0.8485479	-8195444			0.7420263	-6910038			0.6548311	-5869582			0.5807252	-4992023			0.5165553	1
0.2					0.8775514	-119595			0.7930473	-204963			0.7230040	-265591			0.6622481	-306859			0.6083388	2
0.3					0.8945950	-49143			0.8235720	-89081			0.7646178	-542462			0.7130760	-4016372			0.6668282	3
0.4					0.9066244	-47100			0.8452886	-78669			0.7945254	-117092			0.7500190	-98717			0.7098510	4
0.5					0.9158650	-27888			0.8620284	-49768			0.8177090	-67230			0.7788499	-81121			0.7436779	5
0.6					0.9233228	-4633			0.8755501	-7086			0.8364921	-10294			0.8023048	-11844			0.7713307	6
0.7					0.9295407	-12400			0.8868138	-22680			0.8521587	-31164			0.8219154	-38443			0.7945233	7
0.8					0.9348455	-2198			0.8964036	-3760			0.8654981	-5004			0.8386327	-5906			0.8143319	8
0.9					0.9394500	-7004			0.9047024	-10910			0.8770322	-18094			0.8530917	-22580			0.8314816	9
1.0					0.9435002	-663			0.9119753	-1178			0.8871249	-1577			0.8675385	-1684			0.8464864	1.0
1.1					0.9471009	-8543			0.9184137	-1182			0.8960410	-995			0.8769000	-793			0.8597254	1.1
1.2					0.9503301	-488			0.9241607	-699			0.9039792	-609			0.8868230	-455			0.8714869	1.2
1.3					0.9532471	-374			0.9293257	-332			0.9110926	-274			0.8956988	-238			0.8819956	1.3
1.4					0.9558983	-3122			0.9339946	-237			0.9175019	-207			0.9036791	-178			0.8914305	1.4
1.5					0.9583206	-130			0.9382362	-137			0.9233040	-107			0.9108859	-85			0.8999365	1.5
1.6					0.9605437	-99			0.9421061	-88			0.9285778	-71			0.9174192	-65			0.9076325	1.6
1.7					0.9625922	-83			0.9456503	-60			0.9333885	-55			0.9233616	-48			0.9146176	1.7
1.8					0.9644865	-68			0.9489069	-48			0.9377905	-43			0.9287827	-39			0.9209749	1.8
1.9					0.9662436	-54			0.9519081	-39			0.9418298	-36			0.9337412	-33			0.9267752	1.9
2.0					0.9678779	-41			0.9546813	-32			0.9455455	-30			0.9382871	-28			0.9320789	2.0
2.1					0.9694019	-26			0.9572498	-26			0.9489712	-26			0.9424636	-25			0.9369380	2.1
2.2					0.9708263	-14			0.9596339	-18			0.9521359	-17			0.9463080	-16			0.9413979	2.2
2.3					0.9721602	-12			0.9618512	-12			0.9550649	-12			0.9498530	-12			0.9454981	2.3
2.4					0.9734119	-10			0.9639169	-10			0.9577804	-10			0.9531269	-10			0.9492730	2.4
2.5					0.9745883	-8			0.9658447	-8			0.9603018	-8			0.9561550	-8			0.9527533	2.5
2.6					0.9756958	-7			0.9676463	-7			0.9626462	-7			0.9589594	-7			0.9559660	2.6
2.7					0.9767400	-6			0.9693325	-6			0.9648290	-6			0.9615598	-6			0.9589350	2.7
2.8					0.9777257	-5			0.9709126	-5			0.9668638	-5			0.9639739	-5			0.9616819	2.8
2.9					0.9786575	-4			0.9723950	-4			0.9687628	-4			0.9662173	-4			0.9642256	2.9
3.0					0.9795393	-4			0.9737874	-4			0.9705368	-4			0.9683042	-4			0.9665836	3.0
3.1					0.9803747	-3			0.9750966	-3			0.9721957	-3			0.9702474	-3			0.9687711	3.1
3.2					0.9811670	-3			0.9763287	-3			0.9737484	-3			0.9720581	-3			0.9708022	3.2
3.3					0.9819191	-2			0.9774894	-2			0.9752030	-2			0.9737469	-2			0.9726894	3.3
3.4					0.9826337	-2			0.9785837	-2			0.9765667	-2			0.9753232	-2			0.9744443	3.4
3.5					0.9833132	-2			0.9796161	-2			0.9778462	-2			0.9767955	-2			0.9760771	3.5
3.6					0.9839599	-2			0.9805911	-2			0.9790475	-2			0.9781715	-2			0.9775974	3.6
3.7					0.9845758	-2			0.9815124	-2			0.9801763	-2			0.9794584	-2			0.9790137	3.7
3.8					0.9851629	-2			0.9823835	-2			0.9812375	-2			0.9806628	-2			0.9803339	3.8
3.9					0.9857227	-2			0.9832078	-2			0.9822357	-2			0.9817904	-2			0.9815651	3.9
4.0					0.9862571	-2			0.9839882	-2			0.9831754	-2			0.9828468	-2			0.9827140	4.0
4.1					0.9867673	-2			0.9847274	-2			0.9840604	-2			0.9838370	-2			0.9837865	4.1
4.2					0.9872548	-2			0.9854281	-2			0.9848942	-2			0.9847657	-2			0.9847883	4.2
4.3					0.9877209	-2			0.9860926	-2			0.9856803	-2			0.9856369	-2			0.9857243	4.3
4.4					0.9881667	-2			0.9867231	-2			0.9864218	-2			0.9864547	-2			0.9865993	4.4
4.5					0.9885934	-2			0.9873216	-2			0.9871214	-2			0.9872226	-2			0.9874175	4.5
4.6					0.9890019	-2			0.9878899	-2			0.9877818	-2			0.9879440	-2			0.9881830	4.6
4.7					0.9893931	-2			0.9884299	-2			0.9884055	-2			0.9886219	-2			0.9888993	4.7
4.8					0.9897681	-2			0.9889432	-2			0.9889948	-2			0.9892592	-2			0.9895699	4.8
4.9					0.9901276	-2			0.9894313	-2			0.9895518	-2			0.9898586	-2			0.9901979	4.9
5.0					0.9904724	-2			0.9898955	-2			0.9900783	-2			0.9904225	-2			0.9907863	5.0
5.1					0.9908033	-2			0.9903373	-2			0.9905763	-2			0.9909532	-2			0.9913375	5.1
5.2					0.9911208	-2			0.9907578	-2			0.9910475	-2			0.9914528	-2			0.9918543	5.2
5.3					0.9914257	-2			0.9911583	-2			0.9914934	-2			0.9919232	-2			0.9923388	5.3
5.4					0.9917186	-2			0.9915397	-2			0.9919156	-2			0.9923663	-2			0.9927932	5.4
5.5					0.9920000	-2			0.9919032	-2			0.9923154	-2			0.9927838	-2			0.9932195	5.5
5.6					0.9922704	-2			0.9922496	-2			0.9926941	-2			0.9931773	-2			0.9936195	5.6
5.7					0.9925304	-2			0.9925799	-2			0.9930529	-2			0.9935482	-2			0.9939949	5.7
5.8					0.9927805	-2			0.9928949	-2			0.9933930	-2			0.9938979	-2			0.9943473	5.8
5.9					0.9930211	-2			0.9931954	-2			0.9937154	-2			0.9942278	-2			0.9946783	5.9
6.0					0.9932526	-2			0.9934822	-2			0.9940211	-2			0.9945390	-2			0.9949891	6.0



u	p = -0.75		p = -0.70		p = -0.65		p = -0.60		p = -0.55		p = -0.50		u
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.1	-4247718	+79862	0000000	0	0000000	0	0	0000000	0	0000000	0	0	0
0.2	-332943	+5471	4603716	-3568885	4108289	-3957832	+58453	3669314	-2881247	487115	3279055	-818891	42454
0.3	-154051	+6039	5598567	-346876	518746	-359897	+35457	4757381	-348008	+35772	4389589	-354457	+29783
0.4	-873649	+4924	6246843	-3081184	5858935	-2529263	+1057	5499440	-2054269	+24775	5164667	-174058	+21937
0.5	-32485	+4037	6729670	-166176	6387159	-112426	+1425	6066644	-106877	+1625	5765076	-89221	+1405
0.6	-18150	+3239	7112327	-109170	6809300	-106683	+21996	6523869	-109795	+18947	6253386	-112109	+18796
0.7	-8736	+2321	7426817	-68167	7158232	-73299	+17698	6904086	-77608	+14947	6662007	-79888	+13938
0.8	-3344	+1628	7691540	-375	7453127	-3702	+13457	7226809	-47848	+1181	7010426	-47848	+8410
0.9	-1211	+1036	7918184	-197	7706310	-54037	+14438	7504744	-67494	+12688	7311496	-60929	+10381
1.0	-4968	+6888	8114701	-98017	7926253	-6847	+1097	7746720	-44788	+9534	7574254	-47848	+8410
1.1	-17658	+14433	8286778	-29214	8119071	-22544	+7806	7959170	-44788	+9534	7805352	-26599	+4684
1.2	-14773	+13133	8438641	-890	8289345	-1048	+850	8146955	-1083	+524	8009861	-22916	+4178
1.3	-635	+2718	8573526	-697	8440608	-743	+861	8313853	-775	+492	8191753	-10438	+8912
1.4	-12227	+12618	8693973	-14439	8575651	-10221	+6182	8462867	-17854	+4656	8354210	-18444	+3122
1.5	-459	+2689	8802012	-697	8696718	-543	+756	8596428	-679	+463	8499822	-589	+297
1.6	-10738	+11049	8899298	-12407	8805646	-18978	+5638	8716537	-15643	+4127	8630734	-18844	+3122
1.7	-341	+2469	8987194	-379	8909397	-409	+714	8824858	-430	+438	8748739	-449	+278
1.8	-9290	+10193	9066838	-10754	8992927	-12198	+3064	8922793	-13489	+3644	8855354	-14701	+2775
1.9	-259	+2656	9130193	-289	9092638	-314	+674	9011535	-357	+116	9039415	-345	+261
2.0	-8100	+9427	9265191	-9890	9213841	-10617	+4542	9165383	-11788	+3398	9118937	-12987	+2466
2.1	-200	+2248	9320142	-925	9274817	-824	+4157	9232136	-983	+1138	9191281	-277	+245
2.2	-7110	+8735	9370457	-8251	9330537	-9341	+4157	9293031	-10386	+2981	9257181	-11899	+2187
2.3	-158	+2149	9416598	-158	9381526	-10221	+592	9348656	-10386	+2981	9317283	-10386	+2981
2.4	-6277	+8103	9458969	-7290	9428245	-8241	+4157	9399526	-9183	+2959	9372157	-10995	+1677
2.5	-126	+2050	9497929	-143	9471104	-158	+569	9446098	-170	+343	9422307	-171	+215
2.6	-5071	+7922	9533793	-6472	9510464	-7837	+3453	9488779	-8173	+2443	9461812	-8981	+1725
2.7	-109	+1857	9566843	-116	9546646	-129	+538	9527930	-140	+921	9501812	-8017	+201
2.8	-4968	+6888	9597330	-87	9579937	-479	+4806	9563873	-118	+309	9548665	-125	+188
2.9	-53	+1868	9625479	-5183	9610597	-8535	+2801	9596898	-6528	+2013	9583951	-1178	+1418
3.0	-4445	+6484	9651493	-69	9638854	-97	+878	9627264	-5858	+1576	9616327	-105	+176
3.1	-69	+1783	9675551	-85	9664916	-82	+479	9655204	-82	+287	9646052	-8444	+1278
3.2	-893	+5039	9697819	-474	9688972	-9256	+2944	9680928	-5858	+1576	9673360	-89	+185
3.3	-3598	+5678	9718443	-4174	9711190	-4731	+2415	9704628	-5270	+1555	9698460	-5798	+1146
3.4	-48	+1623	9737558	-58	9731723	-63	+427	9726474	-70	+250	9721544	-76	+154
3.5	-3222	+5186	9775286	-3779	9757079	-4269	+2263	9746622	-4755	+1497	9742784	-5228	+1027
3.6	-41	+1545	9797330	-413	9768276	-4269	+1356	9765214	-4269	+1356	9762336	-4724	+143
3.7	-2945	+4778	9814384	-3419	9784537	-3851	+2807	9782377	-51	+220	9780342	-58	+133
3.8	-2676	+4412	9826646	-3666	9799597	-3498	+1819	9798230	-3891	+1214	9796931	-4375	+819
3.9	-80	+1498	9838053	-2436	9813551	-3177	+1258	9812878	-124	+124	9812221	-4375	+819
4.0	-2436	+4367	9848669	-2814	9826486	-2814	+2538	9826418	-3530	+1086	9826319	-4375	+819
4.1	-26	+1359	9858553	-31	9838482	-35	+335	9838399	-89	+193	9839322	-43	+115
4.2	-2222	+3740	9868526	-2563	9849610	-2890	+1482	9849610	-3298	+987	9849610	-3517	+1482
4.3	-23	+1275	9876337	-28	9859939	-20	+314	9859939	-84	+180	9859939	-37	+107
4.4	-2031	+3433	9884333	-233	9869527	-2653	+1328	9869527	-291	+156	9869527	-3197	+581
4.5	-20	+1213	9891787	-23	9878433	-23	+293	9878433	-33	+100	9878433	-33	+100
4.6	-1859	+3140	9898741	-2138	9887433	-2402	+1184	9887433	-2659	+751	9887433	-2910	+474
4.7	-17	+1162	9905228	-20	9894395	-23	+278	9894395	-26	+156	9894395	-29	+82
4.8	-1704	+2864	9911282	-1855	9901542	-2184	+1049	9901542	-2498	+953	9901542	-9651	+492
4.9	-15	+1095	9916934	-18	9908188	-91	+594	9908188	-23	+145	9908188	-28	+85
5.0	-1504	+2663	9922212	-1791	9914370	-2007	+922	9914370	-2216	+561	9914370	-2418	+385
5.1	-13	+1039	9927141	-15	9919012	-18	+249	9919012	-20	+185	9919012	-23	+78
5.2	-1438	+2357	9931747	-1643	9923474	-1838	+805	9923474	-2024	+474	9923474	-2297	+273
5.3	-12	+985	9935095	-10	9927474	-1838	+223	9927474	-1838	+223	9927474	-2297	+273
5.4	-1324	+2124	9939415	-1609	9931747	-1595	+691	9931747	-185	+595	9931747	-2017	+114
5.5	-11	+934	9943439	-12	9935095	-12	+216	9935095	-16	+115	9935095	-18	+68
5.6	-1226	+1905	9947188	-1888	9938482	-1548	+578	9938482	-1698	+329	9938482	-1844	+135
5.7	-9	+884	9950682	-11	9941542	-13	+196	9941542	-14	+109	9941542	-16	+89
5.8	-1126	+1898	9953938	-1777	9944395	-1429	+489	9944395	-1558	+269	9944395	-1888	+109
5.9	-8	+836	9956974	-10	9947188	-11	+181	9947188	-12	+98	9947188	-14	+64
6.0	-1040	+1694	9959721	-8	9949610	-8	+118	9949610	-8	+61	9949610	-9	+36



$u$	$p = -0.95$			$p = -0.90$			$p = -0.85$			$p = -0.80$			$p = -0.75$			$u$
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	
6.0	.9932526	-.87	*	.9934822	-.121	*	.9940211	-.187	*	.9945390	-.178	*	.9949891	-.168	-.671	6.0
6.1	.9934754	-.83		.9937559	-.124		.9943110	-.149		.9948326	-.184		.9952811	-.176	-.683	6.1
6.2	.9936899	-.79		.9940171	-.113		.9945861	-.141		.9951098	-.186		.9955555	-.165	-.716	6.2
6.3	.9938965	-.76		.9942666	-.112		.9948472	-.138		.9953714	-.146		.9958133	-.158	-.733	6.3
6.4	.9940955	-.73		.9945049	-.106		.9950949	-.128		.9956184	-.157		.9960557	-.146	-.748	6.4
6.5	.9942872	-.70		.9947326	-.101		.9953301	-.119		.9958517	-.129		.9962835	-.130	-.786	6.5
6.6	.9944720	-.67		.9949501	-.96		.9955534	-.112		.9960721	-.129		.9964978	-.126	-.770	6.6
6.7	.9946501	-.64		.9951580	-.92		.9957655	-.106		.9962803	-.115		.9966993	-.120	-.778	6.7
6.8	.9948218	-.61		.9953568	-.87		.9959670	-.101		.9964770	-.108		.9968888	-.112	-.784	6.8
6.9	.9949874	-.59		.9955468	-.83		.9961583	-.96		.9966629	-.102		.9970672	-.108	-.787	6.9
7.0	.9951471	-.56		.9957285	-.79		.9963402	-.90		.9968386	-.96		.9972349	-.99	-.790	7.0
7.1	.9953012	-.54		.9959024	-.75		.9965131	-.85		.9970047	-.90		.9973929	-.93	-.790	7.1
7.2	.9954498	-.52		.9960687	-.72		.9966774	-.81		.9971618	-.85		.9975415	-.87	-.789	7.2
7.3	.9955933	-.50		.9962278	-.68		.9968336	-.77		.9973104	-.80		.9976814	-.82	-.787	7.3
7.4	.9957318	-.46		.9963800	-.65		.9969821	-.73		.9974509	-.76		.9978131	-.77	-.783	7.4
7.5	.9958655	-.46		.9965258	-.62		.9971234	-.69		.9975838	-.72		.9979372	-.72	-.779	7.5
7.6	.9959945	-.44		.9966653	-.59		.9972577	-.65		.9977096	-.68		.9980540	-.68	-.773	7.6
7.7	.9961192	-.43		.9967989	-.57		.9973855	-.62		.9978286	-.64		.9981640	-.64	-.768	7.7
7.8	.9962396	-.41		.9969268	-.54		.9975072	-.59		.9979412	-.60		.9982677	-.60	-.769	7.8
7.9	.9963560	-.39		.9970494	-.52		.9976229	-.56		.9980478	-.57		.9983653	-.56	-.760	7.9
8.0	.9964684	-.38		.9971667	-.49		.9977330	-.53		.9981487	-.54		.9984573	-.53	-.741	8.0
8.1	.9965770	-.36		.9972792	-.47		.9978378	-.50		.9982442	-.51		.9985440	-.50	-.731	8.1
8.2	.9966819	-.35		.9973869	-.46		.9979376	-.48		.9983347	-.48		.9986257	-.47	-.721	8.2
8.3	.9967834	-.34		.9974902	-.43		.9980327	-.45		.9984203	-.45		.9987028	-.44	-.710	8.3
8.4	.9968815	-.32		.9975891	-.41		.9981231	-.43		.9985014	-.45		.9987754	-.42	-.699	8.4
8.5	.9969763	-.31		.9976840	-.39		.9982093	-.41		.9985783	-.46		.9988438	-.39	-.686	8.5
8.6	.9970681	-.30		.9977749	-.38		.9982914	-.38		.9986511	-.38		.9989084	-.37	-.676	8.6
8.7	.9971568	-.29		.9978621	-.36		.9983695	-.37		.9987200	-.36		.9989692	-.36	-.665	8.7
8.8	.9972426	-.28		.9979457	-.34		.9984440	-.35		.9987854	-.34		.9990266	-.33	-.651	8.8
8.9	.9973256	-.27		.9980258	-.33		.9985149	-.33		.9988473	-.32		.9990808	-.31	-.638	8.9
9.0	.9974059	-.26		.9981027	-.31		.9985826	-.32		.9989060	-.31		.9991318	-.29	-.625	9.0
9.1	.9974836	-.25		.9981765	-.29		.9986470	-.30		.9989616	-.29		.9991800	-.27	-.613	9.1
9.2	.9975588	-.24		.9982473	-.29		.9987084	-.29		.9990143	-.27		.9992254	-.26	-.600	9.2
9.3	.9976316	-.23		.9983151	-.27		.9987669	-.27		.9990643	-.26		.9992683	-.24	-.587	9.3
9.4	.9977020	-.23		.9983803	-.26		.9988227	-.26		.9991117	-.24		.9993088	-.23	-.573	9.4
9.5	.9977702	-.22		.9984428	-.25		.9988759	-.25		.9991566	-.23		.9993469	-.21	-.560	9.5
9.6	.9978362	-.21		.9985028	-.24		.9989266	-.24		.9991992	-.22		.9993830	-.20	-.547	9.6
9.7	.9979002	-.20		.9985604	-.23		.9989750	-.23		.9992396	-.21		.9994170	-.19	-.534	9.7
9.8	.9979621	-.20		.9986157	-.22		.9990211	-.21		.9992779	-.20		.9994491	-.18	-.521	9.8
9.9	.9980220	-.19		.9986687	-.21		.9990650	-.20		.9993143	-.19		.9994794	-.17	-.508	9.9
10.0	.9980801	-.18		.9987197	-.20		.9991070	-.19		.9993488	-.18		.9995080	-.16	-.496	10.0
10.1	.9981363	-.16		.9987686	-.19		.9991470	-.18		.9993815	-.17		.9995350	-.14	-.483	10.1
10.2	.9981908	-.17		.9988156	-.19		.9991852	-.18		.9994125	-.16		.9995605	-.16	-.470	10.2
10.3	.9982436	-.16		.9988607	-.18		.9992216	-.17		.9994419	-.15		.9995846	-.13	-.458	10.3
10.4	.9982948	-.16		.9989040	-.17		.9992563	-.16		.9994699	-.14		.9996073	-.13	-.446	10.4
10.5	.9983443	-.15		.9989457	-.16		.9992895	-.16		.9994964	-.14		.9996288	-.12	-.434	10.5
10.6	.9983924	-.16		.9989856	-.16		.9993211	-.14		.9995215	-.13		.9996491	-.11	-.422	10.6
10.7	.9984389	-.14		.9990241	-.16		.9993513	-.14		.9995454	-.12		.9996682	-.11	-.410	10.7
10.8	.9984840	-.14		.9990610	-.14		.9993801	-.13		.9995681	-.12		.9996863	-.10	-.399	10.8
10.9	.9985278	-.15		.9990964	-.14		.9994076	-.13		.9995896	-.11		.9997034	-.9	-.388	10.9
11.0	.9985702	-.13		.9991305	-.13		.9994339	-.12		.9996100	-.10		.9997195	-.9	-.377	11.0
11.1	.9986113	-.13		.9991632	-.13		.9994589	-.11		.9996294	-.10		.9997348	-.8	-.366	11.1
11.2	.9986511	-.12		.9991947	-.12		.9994828	-.11		.9996478	-.9		.9997492	-.8	-.355	11.2
11.3	.9986897	-.12		.9992249	-.12		.9995057	-.10		.9996652	-.9		.9997628	-.7	-.345	11.3
11.4	.9987272	-.11		.9992540	-.11		.9995275	-.10		.9996818	-.8		.9997757	-.7	-.334	11.4
11.5	.9987636	-.11		.9992819	-.11		.9995483	-.9		.9996976	-.8		.9997879	-.7	-.324	11.5
11.6	.9987988	-.11		.9993088	-.10		.9995682	-.9		.9997125	-.8		.9997994	-.6	-.315	11.6
11.7	.9988330	-.10		.9993346	-.10		.9995872	-.9		.9997267	-.7		.9998102	-.6	-.305	11.7
11.8	.9988661	-.10		.9993595	-.10		.9996053	-.8		.9997402	-.7		.9998205	-.6	-.296	11.8
11.9	.9988983	-.10		.9993833	-.9		.9996226	-.8		.9997531	-.6		.9998302	-.6	-.287	11.9
12.0	.9989295	-.9		.9994063	-.9		.9996392	-.7		.9997652	-.6		.9998394	-.6	-.276	12.0

\* Interpolation by  $p$ -differences inadequate.



u	p = -0.70			p = -0.65			p = -0.60			p = -0.55			p = -0.50			u
	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	
6.0	.9953721	-195	-576	.9956974	-205	-477	.9959750	-210	-399	.9962135	-216	-323	.9964197	-220	-287	6.0
6.1	.9956601	-186	-588	.9959804	-191	-479	.9962528	-196	-391	.9964861	-200	-320	.9966873	-203	-264	6.1
6.2	.9959296	-172	-594	.9962444	-178	-481	.9965110	-181	-390	.9967387	-185	-317	.9969346	-187	-261	6.2
6.3	.9961819	-161	-599	.9964906	-165	-482	.9967511	-169	-388	.9969728	-171	-314	.9971632	-174	-257	6.3
6.4	.9964181	-150	-604	.9967202	-154	-481	.9969743	-157	-385	.9971898	-158	-310	.9973744	-160	-253	6.4
6.5	.9966393	-140	-606	.9969345	-143	-479	.9971818	-145	-381	.9973911	-148	-305	.9975698	-148	-248	6.5
6.6	.9968465	-131	-607	.9971345	-133	-476	.9973749	-138	-377	.9975776	-136	-300	.9977504	-136	-243	6.6
6.7	.9970405	-128	-607	.9973211	-124	-473	.9975545	-123	-372	.9977507	-125	-298	.9979174	-128	-238	6.7
6.8	.9972223	-115	-605	.9974953	-116	-469	.9977215	-115	-367	.9979111	-116	-289	.9980718	-116	-232	6.8
6.9	.9973927	-107	-603	.9976580	-108	-483	.9978770	-107	-361	.9980600	-108	-283	.9982146	-106	-227	6.9
7.0	.9975523	-100	-599	.9978098	-100	-467	.9980216	-98	-354	.9981981	-100	-277	.9983468	-98	-221	7.0
7.1	.9977020	-94	-594	.9979516	-94	-460	.9981563	-92	-347	.9983262	-92	-271	.9984690	-91	-215	7.1
7.2	.9978422	-88	-589	.9980841	-87	-443	.9982816	-86	-340	.9984451	-86	-264	.9985821	-85	-209	7.2
7.3	.9979737	-82	-582	.9982078	-81	-436	.9983983	-81	-333	.9985554	-79	-257	.9986867	-78	-204	7.3
7.4	.9980970	-77	-575	.9983234	-76	-429	.9985069	-75	-326	.9986578	-74	-251	.9987835	-71	-198	7.4
7.5	.9982127	-72	-568	.9984314	-71	-421	.9986080	-69	-318	.9987528	-68	-245	.9988732	-66	-192	7.5
7.6	.9983211	-67	-560	.9985323	-66	-413	.9987022	-65	-310	.9988410	-63	-238	.9989561	-61	-188	7.6
7.7	.9984228	-63	-551	.9986266	-62	-404	.9987899	-60	-303	.9989229	-60	-231	.9990329	-58	-180	7.7
7.8	.9985183	-59	-542	.9987147	-58	-395	.9988716	-56	-295	.9989991	-54	-224	.9991039	-52	-174	7.8
7.9	.9986078	-55	-532	.9987971	-54	-387	.9989477	-53	-288	.9990696	-50	-217	.9991697	-49	-168	7.9
8.0	.9986918	-52	-523	.9988741	-50	-375	.9990186	-49	-280	.9991352	-47	-210	.9992306	-45	-163	8.0
8.1	.9987707	-48	-513	.9989461	-47	-368	.9990847	-46	-273	.9991961	-45	-204	.9992870	-41	-157	8.1
8.2	.9988447	-45	-502	.9990134	-44	-359	.9991462	-43	-264	.9992526	-40	-197	.9993393	-38	-151	8.2
8.3	.9989142	-43	-492	.9990764	-41	-350	.9992036	-40	-256	.9993052	-37	-191	.9993876	-35	-146	8.3
8.4	.9989794	-40	-481	.9991353	-39	-341	.9992570	-37	-249	.9993540	-35	-185	.9994324	-33	-141	8.4
8.5	.9990406	-37	-471	.9991903	-36	-332	.9993069	-34	-241	.9993993	-32	-178	.9994739	-31	-135	8.5
8.6	.9990981	-35	-460	.9992418	-33	-323	.9993533	-31	-234	.9994414	-30	-172	.9995123	-28	-130	8.6
8.7	.9991521	-33	-449	.9992900	-31	-314	.9993966	-29	-227	.9994806	-28	-166	.9995479	-26	-125	8.7
8.8	.9992028	-31	-438	.9993351	-29	-306	.9994370	-28	-219	.9995169	-26	-160	.9995809	-24	-120	8.8
8.9	.9992504	-29	-427	.9993773	-27	-298	.9994746	-26	-212	.9995507	-24	-154	.9996115	-23	-116	8.9
9.0	.9992951	-27	-416	.9994167	-25	-287	.9995097	-24	-204	.9995822	-22	-149	.9996398	-21	-111	9.0
9.1	.9993371	-26	-406	.9994537	-24	-278	.9995424	-22	-197	.9996113	-21	-143	.9996660	-19	-107	9.1
9.2	.9993766	-24	-396	.9994882	-23	-270	.9995729	-21	-191	.9996385	-19	-135	.9996903	-18	-102	9.2
9.3	.9994136	-22	-384	.9995206	-21	-261	.9996013	-19	-184	.9996637	-18	-129	.9997128	-17	-97	9.3
9.4	.9994485	-21	-374	.9995508	-19	-253	.9996279	-18	-177	.9996872	-16	-127	.9997337	-16	-93	9.4
9.5	.9994812	-20	-363	.9995792	-18	-245	.9996526	-17	-171	.9997090	-16	-122	.9997530	-15	-89	9.5
9.6	.9995120	-19	-353	.9996057	-17	-237	.9996757	-16	-165	.9997292	-14	-118	.9997710	-14	-86	9.6
9.7	.9995409	-17	-343	.9996305	-16	-229	.9996973	-16	-159	.9997481	-13	-113	.9997876	-12	-83	9.7
9.8	.9995681	-16	-333	.9996538	-15	-222	.9997173	-14	-153	.9997656	-12	-108	.9998030	-11	-79	9.8
9.9	.9995936	-15	-323	.9996756	-14	-214	.9997361	-13	-147	.9997819	-11	-104	.9998173	-11	-75	9.9
10.0	.9996176	-14	-313	.9996959	-13	-207	.9997536	-12	-142	.9997970	-11	-100	.9998305	-10	-72	10.0
10.1	.9996402	-14	-304	.9997150	-12	-199	.9997699	-11	-137	.9998111	-10	-96	.9998428	-10	-69	10.1
10.2	.9996614	-13	-295	.9997329	-11	-192	.9997851	-10	-132	.9998242	-9	-92	.9998541	-8	-66	10.2
10.3	.9996814	-12	-286	.9997497	-11	-186	.9997993	-9	-126	.9998364	-9	-89	.9998647	-8	-63	10.3
10.4	.9997001	-11	-276	.9997653	-10	-180	.9998126	-9	-121	.9998477	-8	-86	.9998745	-7	-60	10.4
10.5	.9997178	-11	-267	.9997800	-9	-173	.9998250	-8	-116	.9998583	-7	-80	.9998835	-7	-57	10.5
10.6	.9997344	-10	-259	.9997933	-9	-167	.9998365	-8	-111	.9998681	-7	-77	.9998920	-6	-55	10.6
10.7	.9997500	-10	-251	.9998067	-6	-161	.9998473	-7	-107	.9998772	-6	-74	.9998998	-6	-52	10.7
10.8	.9997647	-9	-243	.9998188	-8	-155	.9998574	-7	-103	.9998857	-6	-71	.9999070	-5	-50	10.8
10.9	.9997785	-9	-235	.9998301	-7	-149	.9998668	-6	-99	.9998936	-6	-68	.9999137	-5	-48	10.9
11.0	.9997914	-8	-227	.9998407	-7	-143	.9998756	-6	-95	.9999010	-5	-65	.9999199	-5	-45	11.0
11.1	.9998037	-8	-219	.9998506	-6	-138	.9998838	-6	-91	.9999078	-5	-61	.9999257	-4	-43	11.1
11.2	.9998152	-7	-212	.9998599	-6	-133	.9998914	-5	-87	.9999142	-4	-59	.9999310	-4	-41	11.2
11.3	.9998260	-7	-205	.9998686	-6	-128	.9998986	-5	-83	.9999201	-4	-55	.9999360	-4	-39	11.3
11.4	.9998361	-6	-198	.9998768	-5	-123	.9999052	-5	-80	.9999256	-4	-54	.9999406	-4	-37	11.4
11.5	.9998457	-6	-191	.9998845	-5	-118	.9999114	-4	-77	.9999307	-4	-51	.9999449	-4	-35	11.5
11.6	.9998547	-6	-184	.9998917	-5	-113	.9999173	-4	-74	.9999355	-4	-49	.9999488	-4	-34	11.6
11.7	.9998632	-5	-177	.9998984	-4	-109	.9999227	-4	-71	.9999399	-4	-47	.9999525	-4	-33	11.7
11.8	.9998712	-5	-171	.9999047	-4	-104	.9999278	-4	-68	.9999441	-4	-45	.9999559	-4	-31	11.8
11.9	.9998787	-5	-165	.9999106	-4	-101	.9999325	-4	-65	.9999479	-4	-43	.9999591	-4	-30	11.9
12.0	.9998857	-4	-159	.9999162	-4	-97	.9999369	-4	-62	.9999515	-4	-41	.9999620	-4	-28	12.0



$u$	$p = -0.95$			$p = -0.90$			$p = -0.85$			$p = -0.80$			$p = -0.75$			$u$
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	
12.0	.9989295	-9	*	.9994063	-9	*	.9996392	-7	*	.9997652	-6	*	.9998394	-5	-278	12.0
12.1	.9989598	-9		.9994284	-8		.9996550	-7		.9997768	-5		.9998480	-5	-269	12.1
12.2	.9989891	-9		.9994496	-8		.9996701	-7		.9997878	-5		.9998562	-4	-260	12.2
12.3	.9990176	-8		.9994700	-6		.9996845	-6		.9997982	-5		.9998640	-4	-252	12.3
12.4	.9990453	-8		.9994896	-8		.9996983	-6		.9998081	-5		.9998713	-4	-244	12.4
12.5	.9990721	-8		.9995085	-7		.9997115	-6		.9998176	-4		.9998782	-4	-236	12.5
12.6	.9990981	-8		.9995267	-7		.9997240	-8		.9998265	-4		.9998848	-4	-228	12.6
12.7	.9991234	-7		.9995442	-7		.9997361	-5		.9998350	-4		.9998910	-4	-221	12.7
12.8	.9991480	-7		.9995610	-8		.9997475	-5		.9998431	-4		.9998968	-4	-214	12.8
12.9	.9991718	-7		.9995772	-8		.9997585	-5		.9998508	-4		.9999024	-4	-207	12.9
13.0	.9991949	-7		.9995927	-8		.9997690	-5		.9998581	-4		.9999076	-4	-200	13.0
13.1	.9992173	-7		.9996077	-8		.9997790	-4		.9998650	-4		.9999126	-4	-193	13.1
13.2	.9992391	-6		.9996221	-5		.9997886	-4		.9998716	-4		.9999172	-4	-185	13.2
13.3	.9992602	-6		.9996360	-5		.9997978	-4		.9998779	-4		.9999217	-4	-181	13.3
13.4	.9992808	-8		.9996493	-5		.9998065	-4		.9998838	-4		.9999259	-4	-175	13.4
13.5	.9993007	-6		.9996622	-5		.9998149	-4		.9998895	-4		.9999298	-4	-166	13.5
13.6	.9993201	-6		.9996745	-5		.9998229	-4		.9998949	-4		.9999336	-4	-159	13.6
13.7	.9993389	-5		.9996864	-4		.9998306	-4		.9999000	-4		.9999371	-4	-157	13.7
13.8	.9993571	-5		.9996979	-4		.9998379	-4		.9999048	-4		.9999405	-4	-152	13.8
13.9	.9993749	-5		.9997089	-4		.9998449	-4		.9999095	-4		.9999437	-4	-147	13.9
14.0	.9993921	-5		.9997195	-4		.9998515	-4		.9999139	-4		.9999467	-4	-142	14.0
14.1	.9994088	-5		.9997297	-4		.9998579	-4		.9999180	-4		.9999495	-4	-137	14.1
14.2	.9994251	-5		.9997396	-4		.9998641	-4		.9999220	-4		.9999522	-4	-132	14.2
14.3	.9994409	-5		.9997490	-4		.9998699	-4		.9999258	-4		.9999547	-4	-127	14.3
14.4	.9994562	-4		.9997582	-4		.9998755	-4		.9999294	-4		.9999572	-4	-124	14.4
14.5	.9994711	-4		.9997669	-4		.9998808	-4		.9999328	-4		.9999594	-4	-118	14.5
14.6	.9994855	-4		.9997754	-4		.9998859	-4		.9999361	-4		.9999616	-4	-114	14.6
14.7	.9994996	-4		.9997835	-4		.9998908	-4		.9999392	-4		.9999636	-4	-110	14.7
14.8	.9995133	-4		.9997914	-4		.9998955	-4		.9999421	-4		.9999656	-4	-106	14.8
14.9	.9995265	-4		.9997989	-4		.9999000	-4		.9999449	-4		.9999674	-4	-102	14.9
15.0	.9995394	-4		.9998062	-4		.9999043	-4		.9999476	-4		.9999691	-4	-99	15.0
15.1	.9995520	-4		.9998132	-4		.9999084	-4		.9999501	-4		.9999708	-4	-95	15.1
15.2	.9995641	-4		.9998199	-4		.9999123	-4		.9999525	-4		.9999723	-4	-92	15.2
15.3	.9995760	-4		.9998264	-4		.9999160	-4		.9999548	-4		.9999738	-4	-88	15.3
15.4	.9995875	-4		.9998327	-4		.9999196	-4		.9999570	-4		.9999752	-4	-84	15.4
15.5	.9995986	-4		.9998387	-4		.9999230	-4		.9999590	-4		.9999765	-4	-82	15.5
15.6	.9996095	-4		.9998445	-4		.9999263	-4		.9999610	-4		.9999777	-4	-79	15.6
15.7	.9996201	-4		.9998501	-4		.9999295	-4		.9999629	-4		.9999789	-4	-76	15.7
15.8	.9996303	-4		.9998554	-4		.9999325	-4		.9999647	-4		.9999800	-4	-73	15.8
15.9	.9996403	-4		.9998606	-4		.9999353	-4		.9999664	-4		.9999811	-4	-71	15.9
16.0	.9996500	-4		.9998656	-4		.9999381	-4		.9999680	-4		.9999821	-4	-68	16.0
16.1	.9996594	-4		.9998704	-4		.9999407	-4		.9999695	-4		.9999830	-4	-66	16.1
16.2	.9996686	-4		.9998751	-4		.9999432	-4		.9999710	-4		.9999839	-4	-63	16.2
16.3	.9996775	-4		.9998796	-4		.9999456	-4		.9999724	-4		.9999848	-4	-61	16.3
16.4	.9996861	-4		.9998839	-4		.9999479	-4		.9999737	-4		.9999856	-4	-59	16.4
16.5	.9996946	-4		.9998880	-4		.9999502	-4		.9999750	-4		.9999863	-4	-56	16.5
16.6	.9997027	-4		.9998920	-4		.9999523	-4		.9999762	-4		.9999870	-4	-54	16.6
16.7	.9997107	-4		.9998959	-4		.9999543	-4		.9999773	-4		.9999877	-4	-52	16.7
16.8	.9997184	-4		.9998996	-4		.9999562	-4		.9999784	-4		.9999884	-4	-50	16.8
16.9	.9997260	-4		.9999031	-4		.9999581	-4		.9999794	-4		.9999890	-4	-48	16.9
17.0	.9997333	-4		.9999066	-4		.9999598	-4		.9999804	-4		.9999896	-4	-47	17.0
17.1	.9997404	-4		.9999099	-4		.9999615	-4		.9999813	-4		.9999901	-4	-45	17.1
17.2	.9997473	-4		.9999131	-4		.9999632	-4		.9999822	-4		.9999906	-4	-43	17.2
17.3	.9997541	-4		.9999162	-4		.9999647	-4		.9999831	-4		.9999911	-4	-41	17.3
17.4	.9997606	-4		.9999192	-4		.9999662	-4		.9999839	-4		.9999916	-4	-40	17.4
17.5	.9997670	-4		.9999221	-4		.9999676	-4		.9999846	-4		.9999920	-4	-38	17.5
17.6	.9997732	-4		.9999248	-4		.9999690	-4		.9999854	-4		.9999924	-4	-37	17.6
17.7	.9997792	-4		.9999275	-4		.9999703	-4		.9999861	-4		.9999928	-4	-36	17.7
17.8	.9997850	-4		.9999301	-4		.9999716	-4		.9999867	-4		.9999932	-4	-34	17.8
17.9	.9997907	-4		.9999325	-4		.9999728	-4		.9999874	-4		.9999936	-4	-33	17.9
18.0	.9997963	-4		.9999349	-4		.9999739	-4		.9999880	-4		.9999939	-4	-32	18.0

\* Interpolation by  $p$ -differences inadequate.

$u$	$p = -0.70$				$p = -0.65$				$p = -0.60$				$p = -0.55$				$p = -0.50$				$u$
	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_{u,p}^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_{u,p}^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_{u,p}^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_{u,p}^2$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_{u,p}^2$	
12.0	.9998857	-4	-180	-68	.9999162	-67	-28	-68	.9999369	-68	-14	-68	.9999515	-41	-9	-41	.9999620	-26	-4	-26	12.0
12.1	.9998924	-4	-164	-64	.9999214	-68	-28	-68	.9999411	-69	-13	-68	.9999548	-39	-9	-39	.9999648	-26	-4	-26	12.1
12.2	.9998986	-4	-148	-60	.9999262	-67	-27	-67	.9999449	-69	-13	-68	.9999579	-37	-8	-37	.9999673	-25	-5	-25	12.2
12.3	.9999045	-4	-132	-56	.9999308	-66	-26	-66	.9999485	-68	-12	-67	.9999608	-35	-7	-35	.9999696	-24	-4	-24	12.3
12.4	.9999101	-4	-116	-52	.9999351	-65	-25	-65	.9999519	-67	-12	-67	.9999635	-33	-6	-33	.9999718	-22	-4	-22	12.4
12.5	.9999153	-4	-100	-48	.9999391	-64	-24	-64	.9999550	-66	-11	-66	.9999660	-32	-6	-32	.9999738	-21	-4	-21	12.5
12.6	.9999202	-4	-84	-44	.9999429	-63	-23	-63	.9999580	-65	-11	-65	.9999683	-30	-5	-30	.9999757	-20	-4	-20	12.6
12.7	.9999248	-4	-68	-40	.9999464	-62	-22	-62	.9999607	-64	-10	-64	.9999705	-29	-5	-29	.9999774	-19	-4	-19	12.7
12.8	.9999292	-4	-52	-36	.9999497	-61	-21	-61	.9999633	-63	-10	-63	.9999725	-27	-4	-27	.9999791	-18	-4	-18	12.8
12.9	.9999333	-4	-36	-32	.9999528	-60	-20	-60	.9999657	-62	-9	-62	.9999744	-26	-4	-26	.9999806	-17	-4	-17	12.9
13.0	.9999371	-4	-20	-28	.9999557	-59	-19	-59	.9999679	-61	-8	-61	.9999762	-25	-4	-25	.9999819	-16	-4	-16	13.0
13.1	.9999408	-4	-4	-24	.9999585	-58	-18	-58	.9999700	-60	-8	-60	.9999778	-24	-4	-24	.9999832	-16	-4	-16	13.1
13.2	.9999442	-4	12	-20	.9999610	-57	-17	-57	.9999720	-59	-7	-59	.9999793	-22	-3	-22	.9999844	-15	-4	-15	13.2
13.3	.9999474	-4	28	-16	.9999634	-56	-16	-56	.9999738	-58	-7	-58	.9999807	-21	-3	-21	.9999856	-14	-4	-14	13.3
13.4	.9999505	-4	44	-12	.9999657	-55	-15	-55	.9999755	-57	-6	-57	.9999821	-20	-3	-20	.9999866	-13	-4	-13	13.4
13.5	.9999533	-4	60	-8	.9999678	-54	-14	-54	.9999771	-56	-6	-56	.9999833	-19	-3	-19	.9999875	-13	-4	-13	13.5
13.6	.9999560	-4	76	-4	.9999698	-53	-13	-53	.9999786	-55	-5	-55	.9999844	-18	-3	-18	.9999884	-12	-4	-12	13.6
13.7	.9999586	-4	92	0	.9999716	-52	-12	-52	.9999800	-54	-5	-54	.9999855	-17	-3	-17	.9999893	-12	-4	-12	13.7
13.8	.9999609	-4	108	4	.9999734	-51	-11	-51	.9999813	-53	-4	-53	.9999865	-16	-3	-16	.9999900	-11	-4	-11	13.8
13.9	.9999632	-4	124	8	.9999750	-50	-10	-50	.9999825	-52	-4	-52	.9999874	-15	-3	-15	.9999907	-10	-4	-10	13.9
14.0	.9999653	-4	140	12	.9999765	-49	-9	-49	.9999836	-51	-3	-51	.9999883	-15	-3	-15	.9999914	-10	-4	-10	14.0
14.1	.9999673	-4	156	16	.9999780	-48	-8	-48	.9999847	-50	-3	-50	.9999891	-14	-3	-14	.9999920	-9	-4	-9	14.1
14.2	.9999692	-4	172	20	.9999793	-47	-7	-47	.9999857	-49	-3	-49	.9999898	-13	-3	-13	.9999926	-9	-4	-9	14.2
14.3	.9999710	-4	188	24	.9999806	-46	-6	-46	.9999866	-48	-2	-48	.9999905	-12	-3	-12	.9999931	-9	-4	-9	14.3
14.4	.9999726	-4	204	28	.9999818	-45	-5	-45	.9999875	-47	-2	-47	.9999912	-11	-3	-11	.9999936	-9	-4	-9	14.4
14.5	.9999742	-4	220	32	.9999829	-44	-4	-44	.9999883	-46	-2	-46	.9999918	-10	-3	-10	.9999941	-7	-4	-7	14.5
14.6	.9999757	-4	236	36	.9999840	-43	-3	-43	.9999891	-45	-2	-45	.9999923	-10	-3	-10	.9999945	-7	-4	-7	14.6
14.7	.9999771	-4	252	40	.9999849	-42	-2	-42	.9999898	-44	-2	-44	.9999928	-9	-3	-9	.9999949	-7	-4	-7	14.7
14.8	.9999784	-4	268	44	.9999859	-41	-1	-41	.9999904	-43	-1	-43	.9999933	-9	-3	-9	.9999952	-6	-4	-6	14.8
14.9	.9999796	-4	284	48	.9999867	-40	0	-40	.9999911	-42	-1	-42	.9999938	-8	-3	-8	.9999956	-6	-4	-6	14.9
15.0	.9999808	-4	300	52	.9999875	-39	0	-39	.9999916	-41	-1	-41	.9999942	-8	-3	-8	.9999959	-6	-4	-6	15.0
15.1	.9999819	-4	316	56	.9999883	-38	0	-38	.9999922	-40	-1	-40	.9999946	-8	-3	-8	.9999962	-5	-4	-5	15.1
15.2	.9999829	-4	332	60	.9999890	-37	0	-37	.9999927	-39	-1	-39	.9999950	-8	-3	-8	.9999965	-5	-4	-5	15.2
15.3	.9999839	-4	348	64	.9999897	-36	0	-36	.9999932	-38	-1	-38	.9999953	-8	-3	-8	.9999967	-5	-4	-5	15.3
15.4	.9999848	-4	364	68	.9999903	-35	0	-35	.9999936	-37	-1	-37	.9999956	-7	-3	-7	.9999969	-5	-4	-5	15.4
15.5	.9999857	-4	380	72	.9999909	-34	0	-34	.9999940	-36	-1	-36	.9999959	-7	-3	-7	.9999972	-4	-4	-4	15.5
15.6	.9999865	-4	396	76	.9999915	-33	0	-33	.9999944	-35	-1	-35	.9999962	-7	-3	-7	.9999974	-4	-4	-4	15.6
15.7	.9999873	-4	412	80	.9999920	-32	0	-32	.9999948	-34	-1	-34	.9999965	-6	-3	-6	.9999975	-4	-4	-4	15.7
15.8	.9999880	-4	428	84	.9999925	-31	0	-31	.9999951	-33	-1	-33	.9999967	-6	-3	-6	.9999977	-4	-4	-4	15.8
15.9	.9999887	-4	444	88	.9999929	-30	0	-30	.9999954	-32	-1	-32	.9999969	-5	-3	-5	.9999979	-4	-4	-4	15.9
16.0	.9999893	-4	460	92	.9999934	-29	0	-29	.9999957	-31	-1	-31	.9999971	-5	-3	-5	.9999980	-4	-4	-4	16.0
16.1	.9999900	-4	476	96	.9999938	-28	0	-28	.9999960	-30	-1	-30	.9999973	-5	-3	-5	.9999982	-4	-4	-4	16.1
16.2	.9999905	-4	492	100	.9999941	-27	0	-27	.9999963	-29	-1	-29	.9999975	-5	-3	-5	.9999983	-4	-4	-4	16.2
16.3	.9999911	-4	508	104	.9999945	-26	0	-26	.9999965	-28	-1	-28	.9999977	-4	-3	-4	.9999984	-4	-4	-4	16.3
16.4	.9999916	-4	524	108	.9999948	-25	0	-25	.9999967	-27	-1	-27	.9999978	-4	-3	-4	.9999985	-4	-4	-4	16.4
16.5	.9999921	-4	540	112	.9999952	-24	0	-24	.9999969	-26	-1	-26	.9999980	-4	-3	-4	.9999986	-4	-4	-4	16.5
16.6	.9999925	-4	556	116	.9999954	-23	0	-23	.9999971	-25	-1	-25	.9999981	-4	-3	-4	.9999987	-4	-4	-4	16.6
16.7	.9999929	-4	572	120	.9999957	-22	0	-22	.9999973	-24	-1	-24	.9999982	-4	-3	-4	.9999988	-4	-4	-4	16.7
16.8	.9999933	-4	588	124	.9999960	-21	0	-21	.9999975	-23	-1	-23	.9999984	-4	-3	-4	.9999989	-4	-4	-4	16.8
16.9	.9999937	-4	604	128	.9999962	-20	0	-20	.9999977	-22	-1	-22	.9999985	-4	-3	-4	.9999990	-4	-4	-4	16.9
17.0	.9999941	-4	620	132	.9999965	-19	0	-19	.9999978	-21	-1	-21	.9999986	-4	-3	-4	.9999991	-4	-4	-4	17.0
17.1	.9999944	-4	636	136	.9999967	-18	0	-18	.9999979	-20	-1	-20	.9999987	-4	-3	-4	.9999991	-4	-4	-4	17.1
17.2	.9999947	-4	652	140	.9999969	-17	0	-17	.9999981	-19	-1	-19	.9999988	-4	-3	-4	.9999992	-4	-4	-4	17.2
17.3	.9999950	-4	668	144	.9999971	-16	0	-16	.9999982	-18	-1	-18	.9999988	-4	-3	-4	.9999992	-4	-4	-4	17.3
17.4	.9999953	-4	684	148	.9999972	-15	0	-15	.9999983	-17	-1	-17	.9999989	-4	-3	-4	.9999993	-4	-4	-4	17.4
17.5	.9999956	-4	700	152	.9999974	-14	0	-14	.9999984	-16	-1	-16	.9999990	-4	-3	-4	.9999993	-4	-4	-4	17.5
17.6	.9999958	-4	716	156	.9999976	-13	0	-13	.9999985	-15	-1	-15	.9999991	-4	-3	-4	.9999994	-4	-4	-4	17.6
17.7	.9999961	-4	732	160	.9999977	-12	0	-12	.9999986	-14	-1	-14	.9999991	-4	-3	-4	.9999994	-4	-4	-4	17.7
17.8	.9999963	-4	748	164	.9999979	-11	0	-11	.9999987	-13	-1	-13	.9999992	-4	-3	-4	.9999995	-4	-4	-4	17.8
17.9	.9999965	-4	764	168	.9999980	-10	0	-10	.9999988	-12	-1	-12	.9999992	-4	-3	-4	.9999995	-4	-4	-4	17.9
18.0	.9999967	-4	780	172	.9999981	-9	0	-9	.9999989	-11	-1	-11	.9999993	-4	-3	-4	.9999995	-4	-4	-4	18.0



$u$	$p = -0.95$			$p = -0.90$			$p = -0.85$			$p = -0.80$			$p = -0.75$			$u$
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	
18.0	.9997963		*	.9999349		*	.9999739		*	.9999880		*	.9999939		-32	18.0
18.1	.9998017			.9999372			.9999750			.9999885			.9999942		-30	18.1
18.2	.9998069			.9999394			.9999760			.9999891			.9999945		-29	18.2
18.3	.9998120			.9999416			.9999771			.9999896			.9999948		-28	18.3
18.4	.9998170			.9999436			.9999780			.9999901			.9999951		-27	18.4
18.5	.9998218			.9999456			.9999789			.9999906			.9999953		-26	18.5
18.6	.9998265			.9999475			.9999798			.9999910			.9999956		-25	18.6
18.7	.9998311			.9999494			.9999807			.9999914			.9999958		-24	18.7
18.8	.9998355			.9999512			.9999815			.9999918			.9999960		-23	18.8
18.9	.9998398			.9999529			.9999823			.9999922			.9999962		-22	18.9
19.0	.9998440			.9999545			.9999830			.9999926			.9999964		-21	19.0
19.1	.9998481			.9999561			.9999837			.9999930			.9999966		-20	19.1
19.2	.9998521			.9999577			.9999844			.9999933			.9999968		-19	19.2
19.3	.9998560			.9999592			.9999850			.9999936			.9999970		-18	19.3
19.4	.9998598			.9999606			.9999857			.9999939			.9999971		-17	19.4
19.5	.9998634			.9999620			.9999863			.9999942			.9999973		-16	19.5
19.6	.9998670			.9999633			.9999868			.9999945			.9999974		-15	19.6
19.7	.9998705			.9999646			.9999874			.9999947			.9999976		-14	19.7
19.8	.9998739			.9999658			.9999879			.9999950			.9999977		-13	19.8
19.9	.9998772			.9999670			.9999884			.9999952			.9999978		-12	19.9
20.0	.9998804			.9999682			.9999889			.9999954			.9999979		-11	20.0
20.1	.9998835			.9999693			.9999894			.9999957			.9999980		-10	20.1
20.2	.9998865			.9999704			.9999898			.9999959			.9999981		-9	20.2
20.3	.9998895			.9999714			.9999902			.9999961			.9999982		-8	20.3
20.4	.9998924			.9999724			.9999906			.9999962			.9999983		-7	20.4
20.5	.9998952			.9999734			.9999910			.9999964			.9999984		-6	20.5
20.6	.9998979			.9999743			.9999914			.9999966			.9999985		-5	20.6
20.7	.9999005			.9999752			.9999918			.9999967			.9999986		-4	20.7
20.8	.9999031			.9999761			.9999921			.9999969			.9999986		-3	20.8
20.9	.9999056			.9999769			.9999924			.9999970			.9999987		-2	20.9
21.0	.9999081			.9999777			.9999927			.9999972			.9999988		-1	21.0
21.1	.9999105			.9999785			.9999930			.9999973			.9999988			21.1
21.2	.9999128			.9999792			.9999933			.9999974			.9999989			21.2
21.3	.9999150			.9999799			.9999936			.9999976			.9999990			21.3
21.4	.9999172			.9999806			.9999939			.9999977			.9999990			21.4
21.5	.9999194			.9999813			.9999941			.9999978			.9999991			21.5
21.6	.9999215			.9999820			.9999944			.9999979			.9999991			21.6
21.7	.9999235			.9999826			.9999946			.9999980			.9999992			21.7
21.8	.9999255			.9999832			.9999948			.9999981			.9999992			21.8
21.9	.9999274			.9999838			.9999950			.9999982			.9999992			21.9
22.0	.9999292			.9999843			.9999952			.9999983			.9999993			22.0
22.1	.9999311			.9999849			.9999954			.9999983			.9999993			22.1
22.2	.9999328			.9999854			.9999956			.9999984			.9999994			22.2
22.3	.9999346			.9999859			.9999958			.9999985			.9999994			22.3
22.4	.9999363			.9999864			.9999960			.9999986			.9999994			22.4
22.5	.9999379			.9999869			.9999962			.9999986			.9999995			22.5
22.6	.9999395			.9999873			.9999963			.9999987			.9999995			22.6
22.7	.9999410			.9999878			.9999965			.9999988			.9999995			22.7
22.8	.9999426			.9999882			.9999966			.9999988			.9999995			22.8
22.9	.9999440			.9999886			.9999967			.9999989			.9999996			22.9
23.0	.9999455			.9999890			.9999969			.9999989			.9999996			23.0
23.1	.9999469			.9999894			.9999970			.9999990			.9999996			23.1
23.2	.9999482			.9999897			.9999971			.9999990			.9999996			23.2
23.3	.9999495			.9999901			.9999973			.9999991			.9999996			23.3
23.4	.9999508			.9999904			.9999974			.9999991			.9999997			23.4
23.5	.9999521			.9999908			.9999975			.9999991			.9999997			23.5
23.6	.9999533			.9999911			.9999976			.9999992			.9999997			23.6
23.7	.9999545			.9999914			.9999977			.9999992			.9999997			23.7
23.8	.9999557			.9999917			.9999978			.9999993			.9999997			23.8
23.9	.9999568			.9999920			.9999979			.9999993			.9999997			23.9
24.0	.9999579			.9999922			.9999980			.9999993			.9999998			24.0

\* Interpolation by  $p$ -differences inadequate.





$u$	$p = -0.95$				$p = -0.90$				$p = -0.85$				$p = -0.80$				$p = -0.75$				$u$
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	*	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	*	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	*	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	*	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	*	
24.0	.9999579			*	.9999922			*	.9999980			*	.9999993			*	.9999998			-5	24.0
24.1	.9999590				.9999925				.9999980				.9999994				.9999998			-5	24.1
24.2	.9999600				.9999928				.9999981				.9999994				.9999998			-4	24.2
24.3	.9999610				.9999930				.9999982				.9999994				.9999998			-4	24.3
24.4	.9999620				.9999932				.9999983				.9999994				.9999998			-4	24.4
24.5	.9999630				.9999935				.9999983				.9999995				.9999998			-4	24.5
24.6	.9999639				.9999937				.9999984				.9999995				.9999998			-4	24.6
24.7	.9999648				.9999939				.9999985				.9999995				.9999998			-4	24.7
24.8	.9999657				.9999941				.9999985				.9999995				.9999998			-4	24.8
24.9	.9999666				.9999943				.9999986				.9999996				.9999998			-4	24.9
25.0	.9999675				.9999945				.9999987				.9999996				.9999999				25.0
25.1	.9999683				.9999947				.9999987				.9999996				.9999999				25.1
25.2	.9999691				.9999949				.9999988				.9999996				.9999999				25.2
25.3	.9999699				.9999951				.9999988				.9999996				.9999999				25.3
25.4	.9999706				.9999952				.9999989				.9999997				.9999999				25.4
25.5	.9999714				.9999954				.9999989				.9999997				.9999999				25.5
25.6	.9999721				.9999956				.9999990				.9999997				.9999999				25.6
25.7	.9999728				.9999957				.9999990				.9999997				.9999999				25.7
25.8	.9999735				.9999959				.9999990				.9999997				.9999999				25.8
25.9	.9999742				.9999960				.9999991				.9999997				.9999999				25.9
26.0	.9999748				.9999961				.9999991				.9999998				.9999999				26.0
26.1	.9999755				.9999963				.9999992				.9999998				.9999999				26.1
26.2	.9999761				.9999964				.9999992				.9999998				.9999999				26.2
26.3	.9999767				.9999965				.9999992				.9999998				.9999999				26.3
26.4	.9999773				.9999966				.9999993				.9999998				.9999999				26.4
26.5	.9999778				.9999967				.9999993				.9999998				.9999999				26.5
26.6	.9999784				.9999969				.9999993				.9999998				.9999999				26.6
26.7	.9999789				.9999970				.9999993				.9999998				.9999999				26.7
26.8	.9999795				.9999971				.9999994				.9999998				.9999999				26.8
26.9	.9999800				.9999972				.9999994				.9999998				.9999999				26.9
27.0	.9999805				.9999973				.9999994				.9999999				1.0000000				27.0
27.1	.9999810				.9999974				.9999994				.9999999				.9999999				
27.2	.9999815				.9999974				.9999995				.9999999				.9999999				
27.3	.9999819				.9999975				.9999995				.9999999				.9999999				
27.4	.9999824				.9999976				.9999995				.9999999				.9999999				
27.5	.9999828				.9999977				.9999995				.9999999				.9999999				
27.6	.9999833				.9999978				.9999996				.9999999				.9999999				
27.7	.9999837				.9999978				.9999996				.9999999				.9999999				
27.8	.9999841				.9999979				.9999996				.9999999				.9999999				
27.9	.9999845				.9999980				.9999996				.9999999				.9999999				
28.0	.9999849				.9999981				.9999996				.9999999				.9999999				
28.1	.9999852				.9999981				.9999996				.9999999				.9999999				
28.2	.9999856				.9999982				.9999997				.9999999				.9999999				
28.3	.9999860				.9999982				.9999997				.9999999				.9999999				
28.4	.9999863				.9999983				.9999997				.9999999				.9999999				
28.5	.9999867				.9999984				.9999997				.9999999				.9999999				
28.6	.9999870				.9999984				.9999997				.9999999				.9999999				
28.7	.9999873				.9999985				.9999997				.9999999				.9999999				
28.8	.9999876				.9999985				.9999997				.9999999				.9999999				
28.9	.9999880				.9999986				.9999997				.9999999				.9999999				
29.0	.9999883				.9999986				.9999998				.9999999				.9999999				
29.1	.9999885				.9999987				.9999998				1.0000000				.9999999				
29.2	.9999888				.9999987				.9999998				.9999999				.9999999				
29.3	.9999891				.9999988				.9999998				.9999999				.9999999				
29.4	.9999894				.9999988				.9999998				.9999999				.9999999				
29.5	.9999896				.9999988				.9999998				.9999999				.9999999				
29.6	.9999899				.9999989				.9999998				.9999999				.9999999				
29.7	.9999902				.9999989				.9999998				.9999999				.9999999				
29.8	.9999904				.9999990				.9999998				.9999999				.9999999				
29.9	.9999906				.9999990				.9999998				.9999999				.9999999				
30.0	.9999909				.9999990				.9999998				.9999999				.9999999				

\* Interpolation by  $p$ -differences inadequate.







$u$	$p = -0.95$				$p = -0.90$				$p = -0.85$				$p = -0.80$				$p = -0.75$				$u$				
	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	$I(u, p)$	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	$I(u, p)$	$\delta_u^2$		$\delta_p^2$	$\delta_u^4$	$\delta_p^4$	
36.0	.9999980				.9999999																			36.0	
36.1	.9999980				.9999999																				36.1
36.2	.9999981				.9999999																				36.2
36.3	.9999981				.9999999																				36.3
36.4	.9999982				.9999999																				36.4
36.5	.9999982				.9999999																				36.5
36.6	.9999982				.9999999																				36.6
36.7	.9999983				.9999999																				36.7
36.8	.9999983				.9999999																				36.8
36.9	.9999984				.9999999																				36.9
37.0	.9999984				.9999999																				37.0
37.1	.9999984				.9999999																				37.1
37.2	.9999985				.9999999																				37.2
37.3	.9999985				.9999999																				37.3
37.4	.9999986				.9999999																				37.4
37.5	.9999986				.9999999																				37.5
37.6	.9999986				.9999999																				37.6
37.7	.9999987				.9999999																				37.7
37.8	.9999987				.9999999																				37.8
37.9	.9999987				.9999999																				37.9
38.0	.9999988				.9999999																				38.0
38.1	.9999988				.9999999																				38.1
38.2	.9999988				.9999999																				38.2
38.3	.9999988				.9999999																				38.3
38.4	.9999989				.9999999																				38.4
38.5	.9999989				.9999999																				38.5
38.6	.9999989				.9999999																				38.6
38.7	.9999990				.9999999																				38.7
38.8	.9999990				.9999999																				38.8
38.9	.9999990				.9999999																				38.9
39.0	.9999990				.9999999																				39.0
39.1	.9999990				1.0000000																				39.1
39.2	.9999991																								
39.3	.9999991																								
39.4	.9999991																								
39.5	.9999991																								
39.6	.9999992																								
39.7	.9999992																								
39.8	.9999992																								
39.9	.9999992																								
40.0	.9999992																								
40.1	.9999993																								
40.2	.9999993																								
40.3	.9999993																								
40.4	.9999993																								
40.5	.9999993																								
40.6	.9999993																								
40.7	.9999994																								
40.8	.9999994																								
40.9	.9999994																								
41.0	.9999994																								
41.1	.9999994																								
41.2	.9999994																								
41.3	.9999994																								
41.4	.9999995																								
41.5	.9999995																								
41.6	.9999995																								
41.7	.9999995																								
41.8	.9999995																								
41.9	.9999995																								
42.0	.9999995																								





$u$	$p = -0.95$			$p = -0.90$			$p = -0.85$			$p = -0.80$			$p = -0.75$			$u$
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	
48.0	.9999999															
48.1	.9999999															
48.2	.9999999															
48.3	.9999999															
48.4	.9999999															
48.5	.9999999															
48.6	.9999999															
48.7	.9999999															
48.8	.9999999															
48.9	.9999999															
49.0	.9999999															
49.1	.9999999															
49.2	.9999999															
49.3	.9999999															
49.4	.9999999															
49.5	.9999999															
49.6	.9999999															
49.7	.9999999															
49.8	.9999999															
49.9	.9999999															
50.0	.9999999															
50.1	.9999999															
50.2	.9999999															
50.3	.9999999															
50.4	.9999999															
50.5	.9999999															
50.6	.9999999															
50.7	.9999999															
50.8	.9999999															
50.9	.9999999															
51.0	.9999999															
51.1	.9999999															
51.2	.9999999															
51.3	1.0000000															



u	p = -0.50				p = -0.45				p = -0.40				p = -0.35				p = -0.30				p = -0.25	
	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	I(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	I(u, p)	u
0.0	0.000000				0.000000				0.000000				0.000000				0.000000				0.000000	0
0.1	.2931279	-1810998	+373336		.2620839	-1601461	+329955		.2343394	-1233781	+29279		.2095228	-1002892	+20665		.1873127	-803642	+232656		.1674282	.1
0.2	.4051560	-320011	+266886		.3740217	-300843	+24133		.3453007	-278960	+21967		.3187764	-255169	+20091		.2942612	-230920	+16447		.2715907	.2
0.3	.4851830	-171686	+19758		.4558751	-166390	+17988		.4283670	-160176	+15541		.4025130	-131538	+15506		.3781895	-142564	+14238		.3552898	.3
0.4	.5480215	-112660	+15000		.5210354	-111848	+13663		.4954157	-109540	+12554		.4710543	-866793	+11894		.4478624	-102953	+10673		.4257647	.4
0.5	.5995940	-81358	+11616		.5750110	-82111	+10524		.5514804	-82943	+9683		.5289163	-81293	+8978		.5072500	-79189	+8416		.4864247	.5
0.6	.6430309	-59173	+829		.6207754	-62205	+7437		.5993408	-64424	+7489		.5786551	-64696	+6923		.5586617	-64473	+6470		.5393153	.6
0.7	.6802453	-49428	+304		.6601782	-51057	+6477		.6407588	-52565	+5848		.6219243	-52951	+5363		.6036261	-53222	+4983		.5858262	.7
0.8	.7125169	-40389	+5911		.6944753	-42001	+5166		.6769503	-43258	+4742		.6593856	-44463	+4174		.6432383	-44254	+3840		.6269750	.8
0.9	.7407565	-39643	+4847		.7245723	-35185	+4163		.7088044	-36598	+3651		.6934016	-37791	+3203		.6783251	-38774	+2962		.6635448	.9
1.0	.7656418	-28396	+4023		.7511507	-29886	+3891		.7369987	-31273	+3918		.7231385	-32494	+3582		.7095345	-33854	+3287		.6961592	1.0
1.1	.7876945	-24206	+3377		.7747406	-26661	+3290		.7620657	-26986	+3252		.7496260	-26186	+2922		.7373885	-28264	+1766		.7253276	1.1
1.2	.8073266	-20582	+2965		.7957644	-22226	+2819		.7844341	-23472	+2811		.7732949	-24622	+2604		.7623161	-25675	+1566		.7514739	1.2
1.3	.8248705	-18164	+2456		.8145656	-19388	+2456		.8044553	-20547	+2557		.7945016	-21692	+2379		.7846758	-22645	+1569		.7749559	1.3
1.4	.8405990	-15868	+2122		.8314280	-17013	+2168		.8224218	-18081	+2195		.8135451	-19095	+2026		.8047710	-20053	+1820		.7960789	1.4
1.5	.8547387	-13977	+1851		.8465891	-15003	+1907		.8385802	-15984	+1878		.8306791	-16922	+1829		.8228609	-17818	+1686		.8151063	1.5
1.6	.8674807	-12356	+1624		.8602499	-13286	+1621		.8531402	-14154	+1604		.8461209	-15047	+1674		.8391690	-15879	+1493		.8322664	1.6
1.7	.8789872	-10987	+1480		.8725820	-11809	+1480		.8662818	-12926	+1477		.8600581	-13418	+1544		.8538892	-14183	+1584		.8477587	1.7
1.8	.8893970	-9766	+1268		.8837333	-10330	+1268		.8781608	-11272	+1260		.8726533	-11996	+1259		.8671909	-12700	+1297		.8617582	1.8
1.9	.8988302	-8724	+1126		.8938315	-9415	+1126		.8889126	-10090	+1126		.8840490	-10748	+1126		.8792226	-11392	+1126		.8744190	1.9
2.0	.9073910	-7816	+1000		.9029883	-8438	+998		.8986554	-9048	+998		.8943700	-9648	+998		.8901151	-10286	+998		.8858776	2.0
2.1	.9151702	-7017	+890		.9113013	-7560	+890		.9074934	-8131	+890		.9037262	-8675	+890		.8999840	-9208	+890		.8962550	2.1
2.2	.9224777	-6315	+790		.9188562	-6622	+790		.9155183	-5732	+790		.9122149	-6269	+790		.9098320	-6829	+790		.9065888	2.2
2.3	.9286937	-5693	+700		.9257291	-6150	+700		.9228110	-5399	+700		.9199224	-4659	+700		.9170503	-4883	+700		.9141849	2.3
2.4	.9345704	-5141	+617		.9319869	-5553	+617		.9294438	-4909	+617		.9269254	-4260	+617		.9244202	-3628	+617		.9219192	2.4
2.5	.9399330	-4651	+540		.9376895	-5021	+540		.9354807	-4387	+540		.9332925	-3749	+540		.9311143	-3107	+540		.9289382	2.5
2.6	.9448305	-4213	+474		.9428899	-4547	+474		.9409789	-3926	+474		.9390846	-3304	+474		.9371976	-2682	+474		.9353109	2.6
2.7	.9493067	-3822	+406		.9476357	-4121	+406		.9459895	-3507	+406		.9443566	-2891	+406		.9427285	-2274	+406		.9410990	2.7
2.8	.9534007	-3470	+345		.9519694	-3740	+345		.9505584	-3095	+345		.9491575	-2469	+345		.9477592	-1851	+345		.9463580	2.8
2.9	.9571477	-3155	+289		.9559292	-3397	+289		.9547268	-2725	+289		.9535315	-2059	+289		.9523368	-1447	+289		.9511378	2.9
3.0	.9605792	-2871	+236		.9595493	-3088	+236		.9585317	-2384	+236		.9575183	-1715	+236		.9565036	-1107	+236		.9554834	3.0
3.1	.9637236	-2616	+187		.9628606	-2810	+187		.9620062	-2091	+187		.9611537	-1432	+187		.9602979	-737	+187		.9594354	3.1
3.2	.9666064	-2385	+141		.9658908	-2559	+141		.9651806	-1429	+141		.9644697	-814	+141		.9637540	-107	+141		.9630305	3.2
3.3	.9692507	-2175	+95		.9686652	-2322	+95		.9680818	-1129	+95		.9674956	-466	+95		.9669030	107	+95		.9663017	3.3
3.4	.9716775	-1986	+58		.9712063	-2127	+58		.9707345	-860	+58		.9702577	-240	+58		.9697731	2534	+58		.9692788	3.4
3.5	.9739055	-1815	+21		.9735348	-1941	+21		.9731607	-1664	+21		.9727797	-1285	+21		.9723896	2307	+21		.9719889	3.5
3.6	.9759520	-1660	-13		.9756692	-1772	-13		.9753805	-1481	-13		.9750832	-1190	-13		.9747756	2096	-13		.9744566	3.6
3.7	.9778325	-1519	-44		.9776264	-1619	-44		.9774122	-1417	-44		.9771877	-1113	-44		.9769518	1903	-44		.9767038	3.7
3.8	.9795611	-1391	-72		.9794217	-1482	-72		.9792722	-1287	-72		.9791110	-1016	-72		.9789372	1737	-72		.9787507	3.8
3.9	.9811506	-1274	-100		.9810691	-1353	-100		.9809755	-1140	-100		.9808689	-918	-100		.9807489	1582	-100		.9806156	3.9
4.0	.9826127	-1167	-124		.9825812	-1238	-124		.9825358	-1029	-124		.9824762	-834	-124		.9824024	1441	-124		.9823147	4.0
4.1	.9839581	-1071	-146		.9839694	-1133	-146		.9839655	-931	-146		.9839461	-744	-146		.9839119	1312	-146		.9838632	4.1
4.2	.9851964	-991	-166		.9852444	-1038	-166		.9852757	-745	-166		.9852906	-560	-166		.9852900	1144	-166		.9852747	4.2
4.3	.9863366	-902	-183		.9864156	-950	-183		.9864767	-757	-183		.9865207	-584	-183		.9865485	1091	-183		.9865613	4.3
4.4	.9873866	-827	-199		.9874918	-871	-199		.9875780	-694	-199		.9876463	-524	-199		.9876980	993	-199		.9877343	4.4
4.5	.9883539	-760	-213		.9884809	-798	-200		.9885879	-635	-200		.9886765	-482	-200		.9887480	908	-200		.9888040	4.5
4.6	.9892452	-699	-226		.9893901	-732	-208		.9895143	-576	-208		.9896195	-436	-208		.9897073	827	-208		.9897795	4.6
4.7	.9900666	-641	-236		.9902262	-672	-215		.9903642	-521	-215		.9904824	-382	-215		.9905839	756	-215		.9906692	4.7
4.8	.9908239	-590	-245		.9909951	-616	-221		.9911441	-461	-221		.9912734	-324	-221		.9913850	689	-221		.9914807	4.8
4.9	.9915222	-544	-253		.9917023	-560	-225		.9918599	-405	-225		.9919975	-274	-225		.9921172	629	-225		.9922211	4.9
5.0	.9921661	-498	-269		.9923530	-519	-229		.9925170	-359	-229		.9926607	-239	-229		.9927866	574	-229		.9928966	5.0
5.1	.9927602	-460	-283		.9929518	-477	-232		.9931202	-308	-232		.9932683	-199	-232		.9933985	529	-232		.9935130	5.1
5.2	.9933083	-423	-269		.9935029	-433	-233		.9936741	-253	-233		.9938249	-154	-233		.9939580	478	-233		.9940754	5.2
5.3	.9938141	-390	-271		.9940101	-402	-235		.9941828	-203	-235		.9943351	-117	-235		.9944697	436	-235		.9945888	5.3
5.4	.9942809	-368	-273		.9944772	-379	-235		.9946500	-156	-235		.9948026	-90	-235		.9949376	399	-235		.9950573	5.4
5.5	.9947119	-331	-274		.9949072	-349	-234		.9950792	-101	-234		.9952311	-57	-234		.9953656	365	-234		.9954850	5.5
5.6	.9951098	-306	-274		.9953033	-313	-233		.9954735	-56	-233		.9956239	-26	-233		.9957570	324	-233		.9958754	5.6
5.7	.9954772	-280	-273		.9956681	-287	-231		.9958359	-24	-231		.9959840	-10	-231		.9961152	304	-231		.9962318	5.7
5.8	.9958166	-259	-272		.9960042	-264	-229		.9961689	-20	-229		.9963142	-7	-229		.9964429	279	-229		.9965573	5.8
5.9	.9961301	-239	-270		.9963138																	



u	p = -0.25		p = -0.20		p = -0.15		p = -0.10		p = -0.05		p = 0.0		u					
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	I(u, p)		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$			
0	—	0	0.000000	—	0	0.000000	—	0	0.000000	—	0	0.000000	—	0	0			
1	-0.02057	+0.0765	1.496222	-4.80253	+1.8601	1.336763	-3.61387	+1.8661	1.193965	-2.55361	+1.4933	1.066100	-1.65774	+1.3390	0.951626	-0.90560	+1.2010	1
2	-0.04633	+0.16984	2.506186	-17.8049	+1.674	2.312139	-13.6550	+1.4487	2.132579	-12.8763	+1.3407	1.966426	-10.8118	+1.2419	1.812692	-8.1940	+1.1612	2
3	-0.12323	+0.3309	3.337201	-13.1249	+1.2462	3.133966	-10.9772	+1.1709	2.942440	-9.7496	+1.1059	2.761934	-8.6035	+1.0399	2.591818	-7.4344	+1.0904	3
4	-0.32936	+0.5926	4.046967	-8.2803	+0.82	3.846021	-6.9622	+0.8734	3.654305	-6.0624	+0.65	3.471368	-5.3972	+0.639	3.296800	-4.7089	+0.7989	4
5	-0.77893	+0.7936	4.663930	-5.3103	+0.7634	4.471147	-4.72052	+0.7182	4.285546	-4.6308	+0.6975	4.106820	-4.4798	+0.6599	3.934693	-4.09702	+0.6349	5
6	-1.5790	+0.6101	5.205790	-3.6208	+0.6794	5.024221	-3.1242	+0.5537	4.848189	-2.9943	+0.5133	4.677474	-2.9116	+0.5125	4.511884	-2.54928	+0.4936	6
7	-2.5461	+0.4679	5.684942	-2.3084	+0.46	5.53971	-1.8990	+0.48	5.351399	-1.769	+0.468	5.190810	-1.685	+0.46	5.034147	-1.4970	+0.3807	7
8	-3.8236	+0.3589	6.110697	-1.3854	+0.42	6.110697	-1.3854	+0.42	5.802542	-1.247	+0.42	5.653143	-1.165	+0.42	5.506710	-1.0493	+0.317	8
9	-5.4943	+0.2731	6.490376	-0.8139	+0.38	6.490376	-0.8139	+0.38	6.207737	-0.725	+0.38	6.069917	-0.608	+0.38	5.934303	-0.4659	+0.2137	9
1.0	-8.4480	+0.2077	6.829916	-0.5214	+0.33	6.829916	-0.5214	+0.33	6.572175	-0.621	+0.33	6.445885	-0.509	+0.33	6.321206	-0.3899	+0.1552	1.0
1.1	-12.022	+0.1675	7.134242	-0.3194	+0.28	7.134242	-0.3194	+0.28	6.900322	-0.520	+0.28	6.785232	-0.409	+0.28	6.671289	-0.3314	+0.1095	1.1
1.2	-17.8644	+0.1187	7.407504	-0.1717	+0.24	7.407504	-0.1717	+0.24	7.196063	-0.429	+0.24	7.091666	-0.316	+0.24	6.988058	-0.30145	+0.0741	1.2
1.3	-23.959	+0.089	7.653249	-0.098	+0.21	7.653249	-0.098	+0.21	7.462801	-0.344	+0.21	7.368483	-0.240	+0.21	7.274682	-0.27278	+0.0471	1.3
1.4	-30.97	+0.063	7.874531	-0.058	+0.18	7.874531	-0.058	+0.18	7.703535	-0.269	+0.18	7.618627	-0.204	+0.18	7.534030	-0.24680	+0.0271	1.4
1.5	-38.673	+0.049	8.074006	-0.038	+0.16	8.074006	-0.038	+0.16	7.920920	-0.209	+0.16	7.844731	-0.161	+0.16	7.768698	-0.22831	+0.0115	1.5
1.6	-47.167	+0.037	8.253995	-0.024	+0.14	8.253995	-0.024	+0.14	8.117315	-0.158	+0.14	8.049153	-0.125	+0.14	7.981035	-0.20510	+0.0021	1.6
1.7	-56.565	+0.026	8.416538	-0.016	+0.13	8.416538	-0.016	+0.13	8.294821	-0.128	+0.13	8.234011	-0.101	+0.13	8.173165	-0.1854	+0.0004	1.7
1.8	-66.873	+0.018	8.563433	-0.010	+0.12	8.563433	-0.010	+0.12	8.455313	-0.106	+0.12	8.401209	-0.084	+0.12	8.347011	-0.16643	+0.0001	1.8
1.9	-78.122	+0.012	8.696274	-0.007	+0.11	8.696274	-0.007	+0.11	8.600470	-0.091	+0.11	8.552459	-0.071	+0.11	8.504314	-0.14970	+0.0001	1.9
2.0	-90.181	+0.008	8.816476	-0.005	+0.10	8.816476	-0.005	+0.10	8.731795	-0.078	+0.10	8.689301	-0.061	+0.10	8.646647	-0.13544	+0.0001	2.0
2.1	-103.022	+0.006	8.925299	-0.003	+0.09	8.925299	-0.003	+0.09	8.850638	-0.068	+0.09	8.813125	-0.051	+0.09	8.775436	-0.12257	+0.0001	2.1
2.2	-116.676	+0.004	9.023867	-0.002	+0.08	9.023867	-0.002	+0.08	8.958212	-0.058	+0.08	8.925182	-0.044	+0.08	8.891968	-0.11068	+0.0001	2.2
2.3	-131.102	+0.003	9.113186	-0.001	+0.07	9.113186	-0.001	+0.07	9.055605	-0.055	+0.07	9.026601	-0.038	+0.07	8.997412	-0.10036	+0.0001	2.3
2.4	-146.345	+0.002	9.194155	-0.000	+0.06	9.194155	-0.000	+0.06	9.143798	-0.051	+0.06	9.118402	-0.032	+0.06	9.092820	-0.09078	+0.0001	2.4
2.5	-162.345	+0.001	9.267582	-0.000	+0.05	9.267582	-0.000	+0.05	9.223676	-0.045	+0.05	9.201504	-0.026	+0.05	9.179150	-0.0818	+0.0001	2.5
2.6	-179.052	+0.000	9.334190	-0.000	+0.04	9.334190	-0.000	+0.04	9.2926035	-0.039	+0.04	9.276738	-0.021	+0.04	9.257264	-0.07433	+0.0001	2.6
2.7	-196.422	+0.000	9.394633	-0.000	+0.03	9.394633	-0.000	+0.03	9.361591	-0.033	+0.03	9.344853	-0.016	+0.03	9.327945	-0.06827	+0.0001	2.7
2.8	-214.472	+0.000	9.449497	-0.000	+0.02	9.449497	-0.000	+0.02	9.420994	-0.027	+0.02	9.406529	-0.011	+0.02	9.391899	-0.06259	+0.0001	2.8
2.9	-233.144	+0.000	9.499308	-0.000	+0.01	9.499308	-0.000	+0.01	9.474827	-0.021	+0.01	9.462377	-0.006	+0.01	9.449768	-0.05668	+0.0001	2.9
3.0	-252.345	+0.000	9.544545	-0.000	+0.01	9.544545	-0.000	+0.01	9.523620	-0.016	+0.01	9.512951	-0.001	+0.01	9.502129	-0.05082	+0.0001	3.0
3.1	-272.052	+0.000	9.585637	-0.000	+0.00	9.585637	-0.000	+0.00	9.567848	-0.011	+0.00	9.558752	0.000	+0.00	9.549508	-0.04508	+0.0001	3.1
3.2	-292.265	+0.000	9.622971	-0.000	+0.00	9.622971	-0.000	+0.00	9.607944	-0.006	+0.00	9.600232	0.000	+0.00	9.592378	-0.03940	+0.0001	3.2
3.3	-312.978	+0.000	9.656898	-0.000	+0.00	9.656898	-0.000	+0.00	9.644298	-0.001	+0.00	9.637802	0.000	+0.00	9.631168	-0.03369	+0.0001	3.3
3.4	-334.181	+0.000	9.687734	-0.000	+0.00	9.687734	-0.000	+0.00	9.677261	0.000	+0.00	9.671831	0.000	+0.00	9.666267	-0.02800	+0.0001	3.4
3.5	-355.884	+0.000	9.715767	-0.000	+0.00	9.715767	-0.000	+0.00	9.707152	0.000	+0.00	9.702654	0.000	+0.00	9.698026	-0.02232	+0.0001	3.5
3.6	-378.087	+0.000	9.741255	-0.000	+0.00	9.741255	-0.000	+0.00	9.734261	0.000	+0.00	9.730575	0.000	+0.00	9.726763	-0.01664	+0.0001	3.6
3.7	-400.790	+0.000	9.764433	-0.000	+0.00	9.764433	-0.000	+0.00	9.758847	0.000	+0.00	9.755867	0.000	+0.00	9.752765	-0.01100	+0.0001	3.7
3.8	-423.993	+0.000	9.785514	-0.000	+0.00	9.785514	-0.000	+0.00	9.781148	0.000	+0.00	9.778780	0.000	+0.00	9.776292	-0.00536	+0.0001	3.8
3.9	-447.696	+0.000	9.804690	-0.000	+0.00	9.804690	-0.000	+0.00	9.801377	0.000	+0.00	9.799538	0.000	+0.00	9.797581	-0.00072	+0.0001	3.9
4.0	-471.899	+0.000	9.822136	-0.000	+0.00	9.822136	-0.000	+0.00	9.819728	0.000	+0.00	9.818343	0.000	+0.00	9.816844	-0.00018	+0.0001	4.0
4.1	-496.502	+0.000	9.838009	-0.000	+0.00	9.838009	-0.000	+0.00	9.836377	0.000	+0.00	9.835381	0.000	+0.00	9.834273	-0.00054	+0.0001	4.1
4.2	-521.505	+0.000	9.852454	-0.000	+0.00	9.852454	-0.000	+0.00	9.851482	0.000	+0.00	9.850818	0.000	+0.00	9.850044	-0.00090	+0.0001	4.2
4.3	-546.908	+0.000	9.865600	-0.000	+0.00	9.865600	-0.000	+0.00	9.865187	0.000	+0.00	9.864805	0.000	+0.00	9.864314	-0.00126	+0.0001	4.3
4.4	-572.711	+0.000	9.877565	-0.000	+0.00	9.877565	-0.000	+0.00	9.877623	0.000	+0.00	9.877478	0.000	+0.00	9.877227	-0.00162	+0.0001	4.4
4.5	-598.914	+0.000	9.888457	-0.000	+0.00	9.888457	-0.000	+0.00	9.888907	0.000	+0.00	9.888960	0.000	+0.00	9.888910	-0.00198	+0.0001	4.5
4.6	-625.517	+0.000	9.898373	-0.000	+0.00	9.898373	-0.000	+0.00	9.899148	0.000	+0.00	9.899365	0.000	+0.00	9.899482	-0.00234	+0.0001	4.6
4.7	-652.520	+0.000	9.907401	-0.000	+0.00	9.907401	-0.000	+0.00	9.908441	0.000	+0.00	9.908794	0.000	+0.00	9.909017	-0.00270	+0.0001	4.7
4.8	-679.923	+0.000	9.915622	-0.000	+0.00	9.915622	-0.000	+0.00	9.916875	0.000	+0.00	9.917337	0.000	+0.00	9.917703	-0.00306	+0.0001	4.8
4.9	-707.726	+0.000	9.923108	-0.000	+0.00	9.923108	-0.000	+0.00	9.924530	0.000	+0.00	9.925080	0.000	+0.00	9.925534	-0.00342	+0.0001	4.9
5.0	-735.929	+0.000	9.929925	-0.000	+0.00	9.929925	-0.000	+0.00	9.931478	0.000	+0.00	9.932096	0.000	+0.00	9.932621	-0.00378	+0.0001	5.0
5.1	-764.532	+0.000	9.936135	-0.000	+0.00	9.936135	-0.000	+0.00	9.937785	0.000	+0.00	9.938454	0.000	+0.00	9.939033	-0.00414	+0.0001	5.1
5.2	-793.135	+0.000	9.941791	-0.000	+0.00	9.941791	-0.000	+0.00	9.943509	0.000	+0.00	9.944216	0.000	+0.00	9.944834	-0.00450	+0.0001	5.2
5.3	-821.738	+0.000	9.946943	-0.000	+0.00	9.946943	-0.000	+0.00	9.948705	0.000	+0.00	9.949437	0.000	+0.00	9.950084	-0.00486	+0.0001	5.3
5.4	-850.341	+0.000	9.951637	-0.000	+0.00	9.951637	-0.000	+0.00	9.953422	0.000	+0.00	9.954170	0.000	+0.00	9.954834	-0.00522	+0.0001	5.4
5.5	-878.944	+0.000	9.955913	-0.000	+0.00	9.955913	-0.000	+0.00	9.957705	0.000	+0.00	9.958459	0.000	+0.00	9.959132	-0.00558	+0.0001	5.5
5.6	-907.547	+0.000	9.959809	-0.000	+0.00	9.959809	-0.000	+0.00	9.961592	0.000	+0.00	9.962346	0.000	+0.00	9.963020	-0.00594	+0.0001	5



u	p = -0.50			p = -0.45			p = -0.40			p = -0.35			p = -0.30			p = -0.25	
	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	$\delta_u^2$	$\delta_p^2$	I(u, p)	u
6.0	.9964197	-228	-267	.9965992	-224	-223	.9967563	-227	-188	.9968946	-280	-150	.9970170	-232	-188	.9971258	6.0
6.1	.9966873	-283	-264	.9968621	-260	-223	.9970149	-208	-184	.9971493	-211	-166	.9972681	-213	-133	.9973736	6.1
6.2	.9969346	-187	-261	.9971045	-190	-216	.9972527	-191	-181	.9973829	-103	-162	.9974979	-196	-186	.9975999	6.2
6.3	.9971632	-174	-237	.9973279	-174	-212	.9974714	-177	-177	.9975972	-177	-149	.9977082	-177	-126	.9978066	6.3
6.4	.9973744	-160	-202	.9975338	-161	-206	.9976724	-160	-173	.9977938	-162	-145	.9979007	-164	-122	.9979954	6.4
6.5	.9975698	-148	-248	.9977237	-148	-208	.9978574	-149	-188	.9979742	-149	-141	.9980770	-150	-119	.9981679	6.5
6.6	.9977504	-130	-243	.9978988	-136	-198	.9980275	-137	-164	.9981397	-196	-136	.9982383	-137	-115	.9983254	6.6
6.7	.9979174	-126	-228	.9980603	-126	-193	.9981839	-124	-159	.9982916	-126	-132	.9983861	-126	-111	.9984694	6.7
6.8	.9980718	-110	-232	.9982092	-116	-188	.9983279	-116	-155	.9984310	-116	-122	.9985213	-116	-108	.9986009	6.8
6.9	.9982146	-180	-227	.9983466	-108	-181	.9984603	-106	-150	.9985589	-108	-124	.9986452	-105	-104	.9987210	6.9
7.0	.9983468	-98	-221	.9984734	-88	-178	.9985821	-98	-146	.9986764	-98	-128	.9987586	-95	-108	.9988308	7.0
7.1	.9984690	-91	-215	.9985903	-90	-173	.9986943	-80	-141	.9987842	-88	-118	.9988625	-86	-98	.9989311	7.1
7.2	.9985821	-85	-209	.9986982	-83	-168	.9987974	-83	-135	.9988831	-81	-112	.9989576	-78	-95	.9990228	7.2
7.3	.9986867	-78	-204	.9987977	-77	-162	.9988924	-78	-132	.9989740	-74	-108	.9990447	-78	-89	.9991066	7.3
7.4	.9987835	-71	-198	.9988896	-71	-157	.9989798	-69	-127	.9990574	-68	-104	.9991246	-67	-86	.9991832	7.4
7.5	.9988732	-66	-192	.9989743	-65	-152	.9990603	-64	-123	.9991340	-63	-100	.9991977	-61	-82	.9992531	7.5
7.6	.9989561	-61	-186	.9990526	-60	-147	.9991343	-68	-118	.9992043	-67	-98	.9992646	-67	-79	.9993171	7.6
7.7	.9990329	-60	-180	.9991248	-60	-142	.9992025	-54	-114	.9992689	-63	-92	.9993260	-61	-78	.9993756	7.7
7.8	.9991039	-52	-174	.9991915	-61	-137	.9992653	-60	-109	.9993282	-48	-88	.9993822	-47	-72	.9994290	7.8
7.9	.9991697	-49	-168	.9992530	-47	-132	.9993231	-48	-105	.9993826	-44	-85	.9994337	-43	-69	.9994778	7.9
8.0	.9992306	-46	-163	.9993098	-44	-127	.9993763	-42	-101	.9994327	-41	-81	.9994809	-39	-66	.9995225	8.0
8.1	.9992870	-41	-157	.9993623	-40	-122	.9994253	-39	-87	.9994786	-37	-78	.9995241	-36	-64	.9995633	8.1
8.2	.9993393	-38	-151	.9994107	-37	-116	.9994704	-38	-93	.9995208	-34	-75	.9995638	-33	-61	.9996006	8.2
8.3	.9993876	-36	-146	.9994555	-34	-113	.9995120	-38	-88	.9995596	-32	-71	.9996001	-30	-68	.9996348	8.3
8.4	.9994324	-38	-141	.9994968	-32	-109	.9995503	-31	-86	.9995952	-29	-65	.9996333	-28	-65	.9996659	8.4
8.5	.9994739	-31	-135	.9995350	-29	-104	.9995855	-28	-82	.9996279	-27	-65	.9996638	-26	-62	.9996945	8.5
8.6	.9995123	-28	-130	.9995702	-27	-100	.9996180	-28	-79	.9996530	-24	-62	.9996918	-23	-60	.9997205	8.6
8.7	.9995479	-26	-125	.9996027	-25	-96	.9996479	-24	-75	.9996856	-22	-69	.9997174	-21	-49	.9997444	8.7
8.8	.9995809	-24	-120	.9996328	-23	-92	.9996755	-22	-72	.9997110	-20	-67	.9997409	-20	-45	.9997662	8.8
8.9	.9996115	-28	-115	.9996606	-21	-88	.9997009	-21	-69	.9997343	-18	-64	.9997624	-16	-43	.9997861	8.9
9.0	.9996398	-21	-111	.9996863	-20	-84	.9997243	-19	-68	.9997558	-17	-61	.9997821	-18	-41	.9998044	9.0
9.1	.9996660	-19	-107	.9997100	-18	-81	.9997458	-17	-63	.9997755	-18	-49	.9998002	-16	-39	.9998210	9.1
9.2	.9996903	-18	-102	.9997319	-17	-77	.9997657	-16	-60	.9997936	-16	-46	.9998168	-14	-37	.9998363	9.2
9.3	.9997128	-17	-97	.9997521	-16	-74	.9997840	-14	-57	.9998102	-18	-44	.9998320	-13	-35	.9998502	9.3
9.4	.9997337	-16	-93	.9997708	-14	-71	.9998009	-13	-54	.9998255	-12	-42	.9998459	-12	-33	.9998630	9.4
9.5	.9997530	-15	-89	.9997881	-13	-68	.9998164	-12	-61	.9998395	-11	-40	.9998587	-11	-31	.9998747	9.5
9.6	.9997710	-14	-86	.9998041	-12	-65	.9998307	-11	-49	.9998525	-10	-38	.9998704	-10	-29	.9998853	9.6
9.7	.9997876	-12	-83	.9998188	-11	-62	.9998439	-10	-47	.9998643	-10	-36	.9998811	-9	-28	.9998951	9.7
9.8	.9998030	-11	-79	.9998325	-10	-60	.9998561	-10	-44	.9998752	-9	-34	.9998910	-8	-26	.9999040	9.8
9.9	.9998173	-11	-75	.9998451	-10	-56	.9998673	-9	-42	.9998853	-8	-32	.9999000	-7	-25	.9999122	9.9
10.0	.9998305	-10	-72	.9998567	-9	-54	.9998776	-8	-40	.9998945	-7	-31	.9999083	-7	-24	.9999196	10.0
10.1	.9998428	-10	-69	.9998675	-8	-51	.9998872	-7	-38	.9999030	-7	-29	.9999159	-6	-23	.9999265	10.1
10.2	.9998541	-8	-66	.9998775	-8	-48	.9998959	-7	-37	.9999108	-8	-28	.9999228	-8	-22	.9999327	10.2
10.3	.9998647	-8	-63	.9998867	-7	-46	.9999040	-6	-35	.9999179	-8	-26	.9999292	-5	-20	.9999384	10.3
10.4	.9998745	-7	-60	.9998952	-6	-44	.9999115	-8	-38	.9999245	-6	-26	.9999351	-6	-19	.9999437	10.4
10.5	.9998835	-7	-57	.9999031	-6	-42	.9999184	-5	-31	.9999306	-6	-24	.9999404	-5	-18	.9999485	10.5
10.6	.9998920	-6	-55	.9999103	-5	-40	.9999247	-6	-30	.9999361	-4	-22	.9999453	-4	-17	.9999528	10.6
10.7	.9998998	-6	-52	.9999171	-6	-38	.9999306	-5	-28	.9999413	-4	-21	.9999499	-4	-16	.9999568	10.7
10.8	.9999070	-6	-50	.9999233	-5	-36	.9999360	-4	-27	.9999460	-4	-20	.9999540	-15	-15	.9999605	10.8
10.9	.9999137	-6	-48	.9999290	-4	-34	.9999409	-4	-25	.9999503	-19	-19	.9999578	-14	-14	.9999639	10.9
11.0	.9999199	-5	-45	.9999343	-4	-33	.9999455	-4	-24	.9999543	-15	-15	.9999613	-14	-14	.9999669	11.0
11.1	.9999257	-4	-43	.9999393	-4	-31	.9999497	-28	-28	.9999580	-17	-17	.9999645	-13	-13	.9999697	11.1
11.2	.9999310	-4	-41	.9999438	-29	-29	.9999536	-22	-22	.9999613	-18	-18	.9999674	-12	-12	.9999723	11.2
11.3	.9999360	-4	-39	.9999480	-24	-24	.9999572	-20	-20	.9999644	-15	-15	.9999701	-11	-11	.9999747	11.3
11.4	.9999406	-4	-37	.9999519	-26	-26	.9999605	-19	-19	.9999673	-14	-14	.9999726	-10	-10	.9999768	11.4
11.5	.9999449	-35	-35	.9999555	-24	-24	.9999636	-18	-18	.9999699	-18	-18	.9999748	-10	-10	.9999788	11.5
11.6	.9999488	-34	-35	.9999588	-23	-23	.9999664	-17	-17	.9999723	-12	-12	.9999769	-9	-9	.9999806	11.6
11.7	.9999525	-33	-35	.9999619	-22	-22	.9999690	-16	-16	.9999745	-12	-12	.9999788	-9	-9	.9999822	11.7
11.8	.9999559	-31	-35	.9999647	-21	-21	.9999714	-15	-15	.9999765	-11	-11	.9999806	-8	-8	.9999837	11.8
11.9	.9999591	-30	-35	.9999674	-20	-20	.9999736	-14	-14	.9999784	-11	-11	.9999822	-8	-8	.9999851	11.9
12.0	.9999620	-28	-34	.9999698	-19	-19	.9999757	-13	-13	.9999801	-10	-10	.9999836	-7	-7	.9999864	12.0



$u$	$p = -0.25$		$p = -0.20$		$p = -0.15$		$p = -0.10$		$p = -0.05$		$p = 0.0$		$u$		
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$
6.0	-285	-117	.9972228	-287	-102	.9973097	-241	-80	.9973877	-244	-78	.9974579	-246	-69	6.0
6.1	-215	-114	.9974677	-217	-96	.9975519	-219	-86	.9976275	-220	-75	.9976956	-223	-66	6.1
6.2	-196	-111	.9976909	-198	-96	.9977722	-199	-83	.9978453	-201	-73	.9979111	-202	-64	6.2
6.3	-176	-107	.9978943	-180	-93	.9979727	-181	-80	.9980430	-181	-70	.9981064	-183	-61	6.3
6.4	-163	-104	.9980797	-164	-90	.9981550	-164	-77	.9982226	-185	-67	.9982835	-166	-59	6.4
6.5	-149	-101	.9982487	-149	-87	.9983209	-150	-74	.9983857	-151	-65	.9984439	-150	-57	6.5
6.6	-136	-97	.9984028	-136	-84	.9984719	-136	-72	.9985337	-135	-62	.9985894	-136	-54	6.6
6.7	-124	-94	.9985433	-124	-81	.9986092	-124	-69	.9986682	-124	-60	.9987212	-123	-52	6.7
6.8	-114	-90	.9986714	-118	-78	.9987342	-113	-66	.9987903	-112	-57	.9988408	-112	-50	6.8
6.9	-104	-85	.9987882	-103	-75	.9988479	-102	-63	.9989012	-102	-55	.9989491	-101	-48	6.9
7.0	-95	-84	.9988947	-93	-72	.9989513	-83	-61	.9990019	-92	-52	.9990473	-92	-45	7.0
7.1	-86	-81	.9989918	-86	-68	.9990455	-85	-58	.9990934	-84	-50	.9991363	-83	-43	7.1
7.2	-78	-78	.9990803	-78	-68	.9991312	-77	-56	.9991765	-77	-48	.9992170	-75	-41	7.2
7.3	-72	-74	.9991610	-71	-63	.9992091	-70	-53	.9992519	-69	-46	.9992902	-69	-39	7.3
7.4	-66	-71	.9992346	-65	-60	.9992801	-64	-51	.9993204	-63	-43	.9993565	-62	-37	7.4
7.5	-60	-68	.9993018	-59	-58	.9993447	-58	-48	.9993827	-57	-41	.9994166	-56	-36	7.5
7.6	-55	-65	.9993630	-54	-55	.9994034	-52	-46	.9994392	-52	-39	.9994711	-51	-34	7.6
7.7	-50	-63	.9994189	-49	-53	.9994569	-49	-44	.9994906	-47	-37	.9995205	-46	-32	7.7
7.8	-46	-60	.9994698	-45	-50	.9995056	-44	-42	.9995372	-43	-35	.9995653	-42	-30	7.8
7.9	-42	-57	.9995163	-41	-48	.9995499	-40	-40	.9995796	-39	-34	.9996059	-38	-29	7.9
8.0	-38	-54	.9995587	-38	-46	.9995902	-36	-39	.9996181	-36	-33	.9996427	-34	-27	8.0
8.1	-35	-52	.9995973	-34	-44	.9996270	-33	-36	.9996530	-32	-31	.9996760	-31	-26	8.1
8.2	-32	-49	.9996326	-31	-41	.9996604	-30	-34	.9996848	-29	-29	.9997063	-28	-25	8.2
8.3	-29	-47	.9996647	-28	-39	.9996908	-27	-32	.9997136	-27	-27	.9997337	-26	-23	8.3
8.4	-27	-45	.9996941	-26	-37	.9997185	-25	-31	.9997398	-24	-26	.9997586	-23	-22	8.4
8.5	-24	-43	.9997208	-28	-35	.9997437	-23	-29	.9997636	-22	-23	.9997811	-21	-21	8.5
8.6	-22	-40	.9997453	-21	-34	.9997666	-21	-28	.9997852	-20	-23	.9998015	-19	-19	8.6
8.7	-20	-38	.9997675	-19	-32	.9997875	-19	-26	.9998049	-18	-22	.9998201	-17	-18	8.7
8.8	-18	-36	.9997879	-18	-30	.9998065	-17	-23	.9998227	-17	-21	.9998369	-16	-17	8.8
8.9	-17	-34	.9998064	-16	-28	.9998238	-16	-23	.9998389	-15	-19	.9998521	-14	-16	8.9
9.0	-16	-32	.9998233	-14	-27	.9998396	-14	-22	.9998536	-18	-18	.9998659	-13	-15	9.0
9.1	-14	-31	.9998388	-14	-26	.9998539	-13	-21	.9998670	-12	-17	.9998784	-12	-14	9.1
9.2	-13	-29	.9998529	-13	-24	.9998670	-12	-19	.9998792	-11	-16	.9998898	-11	-13	9.2
9.3	-12	-27	.9998657	-11	-23	.9998789	-11	-18	.9998902	-10	-15	.9999000	-10	-12	9.3
9.4	-11	-26	.9998774	-10	-22	.9998897	-10	-17	.9999003	-9	-14	.9999094	-9	-12	9.4
9.5	-10	-24	.9998881	-9	-20	.9998996	-9	-16	.9999094	-8	-13	.9999178	-8	-11	9.5
9.6	-9	-23	.9998979	-9	-19	.9999085	-8	-15	.9999177	-7	-12	.9999255	-7	-11	9.6
9.7	-8	-22	.9999068	-8	-18	.9999167	-7	-14	.9999252	-7	-12	.9999324	-7	-10	9.7
9.8	-9	-21	.9999150	-7	-17	.9999242	-7	-13	.9999320	-6	-11	.9999387	-6	-10	9.8
9.9	-7	-20	.9999224	-6	-16	.9999309	-6	-12	.9999382	-6	-10	.9999445	-5	-9	9.9
10.0	-6	-19	.9999291	-6	-15	.9999371	-6	-12	.9999439	-5	-10	.9999496	-6	-8	10.0
10.1	-6	-18	.9999353	-5	-15	.9999427	-5	-11	.9999490	-5	-9	.9999543	-4	-8	10.1
10.2	-5	-17	.9999410	-5	-14	.9999478	-5	-11	.9999537	-4	-9	.9999586	-4	-7	10.2
10.3	-5	-16	.9999461	-4	-13	.9999525	-4	-10	.9999579	-4	-8	.9999625	-7	-6	10.3
10.4	-4	-15	.9999508	-4	-12	.9999567	-4	-9	.9999617	-4	-8	.9999660	-8	-5	10.4
10.5	-4	-14	.9999551	-4	-11	.9999606	-4	-9	.9999652	-7	-7	.9999691	-6	-5	10.5
10.6	-4	-13	.9999590	-4	-11	.9999641	-4	-8	.9999684	-7	-7	.9999720	-6	-4	10.6
10.7	-4	-12	.9999626	-4	-10	.9999673	-4	-8	.9999713	-6	-6	.9999746	-6	-4	10.7
10.8	-4	-12	.9999658	-4	-10	.9999702	-4	-7	.9999739	-6	-6	.9999770	-5	-4	10.8
10.9	-4	-11	.9999688	-4	-9	.9999729	-4	-7	.9999763	-6	-6	.9999791	-5	-4	10.9
11.0	-4	-10	.9999715	-4	-9	.9999753	-4	-6	.9999784	-5	-5	.9999811	-4	-4	11.0
11.1	-4	-10	.9999740	-4	-8	.9999775	-4	-6	.9999804	-5	-5	.9999828	-4	-4	11.1
11.2	-4	-9	.9999763	-4	-7	.9999795	-4	-5	.9999822	-4	-4	.9999844	-4	-3	11.2
11.3	-4	-9	.9999783	-4	-7	.9999813	-4	-5	.9999838	-4	-4	.9999859	-4	-3	11.3
11.4	-4	-8	.9999802	-4	-7	.9999830	-4	-5	.9999853	-4	-4	.9999872	-4	-3	11.4
11.5	-4	-8	.9999820	-4	-6	.9999845	-4	-4	.9999866	-4	-4	.9999884	-4	-3	11.5
11.6	-4	-7	.9999835	-4	-6	.9999859	-4	-4	.9999879	-4	-4	.9999895	-4	-3	11.6
11.7	-4	-7	.9999850	-4	-5	.9999872	-4	-4	.9999890	-4	-4	.9999905	-4	-3	11.7
11.8	-4	-6	.9999863	-4	-5	.9999883	-4	-4	.9999900	-4	-4	.9999914	-4	-3	11.8
11.9	-4	-6	.9999875	-4	-5	.9999893	-4	-4	.9999909	-4	-4	.9999922	-4	-3	11.9
12.0	-4	-5	.9999886	-4	-4	.9999903	-4	-4	.9999917	-4	-4	.9999929	-4	-3	12.0



$u$	$p = -0.50$			$p = -0.45$			$p = -0.40$			$p = -0.35$			$p = -0.30$			$p = -0.25$	
	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$u$
12.0	.9999620		-25 -4	.9999698		-19	.9999757		-13	.9999801		-10	.9999836		-7	.9999864	12.0
12.1	.9999648		-26 -4	.9999721		-18	.9999776		-13	.9999817		-10	.9999850		-7	.9999875	12.1
12.2	.9999673		-25 -4	.9999742		-17	.9999793		-12	.9999832		-9	.9999862		-7	.9999886	12.2
12.3	.9999696		-24 -4	.9999761		-16	.9999809		-12	.9999845		-9	.9999873		-6	.9999895	12.3
12.4	.9999718		-22 -4	.9999779		-15	.9999824		-11	.9999858		-8	.9999884		-6	.9999904	12.4
12.5	.9999738		-21 -4	.9999795		-14	.9999837		-10	.9999869		-8	.9999893		-5	.9999912	12.5
12.6	.9999757		-20	.9999810		-14	.9999850		-10	.9999880		-7	.9999902		-5	.9999920	12.6
12.7	.9999774		-19	.9999825		-13	.9999861		-9	.9999889		-7	.9999910		-5	.9999927	12.7
12.8	.9999791		-18	.9999838		-12	.9999872		-9	.9999898		-6	.9999918		-4	.9999933	12.8
12.9	.9999806		-17	.9999850		-12	.9999882		-8	.9999906		-6	.9999924		-4	.9999938	12.9
13.0	.9999819		-16	.9999861		-11	.9999891		-8	.9999914		-6	.9999931		-4	.9999944	13.0
13.1	.9999832		-15	.9999871		-11	.9999900		-7	.9999920		-5	.9999936		-4	.9999948	13.1
13.2	.9999844		-15	.9999881		-10	.9999907		-7	.9999927		-5	.9999942			.9999953	13.2
13.3	.9999856		-14	.9999890		-10	.9999914		-7	.9999933		-5	.9999946			.9999957	13.3
13.4	.9999866		-13	.9999898		-9	.9999921		-6	.9999938		-4	.9999951			.9999960	13.4
13.5	.9999875		-13	.9999905		-9	.9999927		-8	.9999943		-4	.9999955			.9999964	13.5
13.6	.9999884		-12	.9999912		-8	.9999933		-5	.9999948		-4	.9999959			.9999967	13.6
13.7	.9999893		-12	.9999919		-8	.9999938		-5	.9999952		-4	.9999962			.9999970	13.7
13.8	.9999900		-11	.9999925		-7	.9999943		-5	.9999956			.9999965			.9999972	13.8
13.9	.9999907		-10	.9999931		-7	.9999947		-5	.9999959			.9999968			.9999975	13.9
14.0	.9999914		-10	.9999936		-6	.9999951		-4	.9999962			.9999971			.9999977	14.0
14.1	.9999920		-9	.9999940		-6	.9999955		-4	.9999965			.9999973			.9999979	14.1
14.2	.9999926		-9	.9999945		-8	.9999958		-4	.9999968			.9999975			.9999980	14.2
14.3	.9999931		-8	.9999949		-5	.9999962		-4	.9999971			.9999977			.9999982	14.3
14.4	.9999936		-8	.9999953		-5	.9999965		-4	.9999973			.9999979			.9999984	14.4
14.5	.9999941		-7	.9999956		-5	.9999967			.9999975			.9999981			.9999985	14.5
14.6	.9999945		-7	.9999960		-4	.9999970			.9999977			.9999982			.9999986	14.6
14.7	.9999949		-7	.9999963		-4	.9999972			.9999979			.9999984			.9999987	14.7
14.8	.9999952		-6	.9999965		-4	.9999974			.9999981			.9999985			.9999988	14.8
14.9	.9999956		-6	.9999968		-4	.9999976			.9999982			.9999986			.9999989	14.9
15.0	.9999959		-6	.9999970			.9999978			.9999984			.9999988			.9999990	15.0
15.1	.9999962		-5	.9999972			.9999980			.9999985			.9999989			.9999991	15.1
15.2	.9999965		-5	.9999974			.9999981			.9999986			.9999989			.9999992	15.2
15.3	.9999967		-5	.9999976			.9999983			.9999987			.9999990			.9999993	15.3
15.4	.9999969		-5	.9999978			.9999984			.9999988			.9999991			.9999993	15.4
15.5	.9999972		-4	.9999980			.9999985			.9999989			.9999992			.9999994	15.5
15.6	.9999974		-4	.9999981			.9999986			.9999990			.9999993			.9999994	15.6
15.7	.9999975		-4	.9999983			.9999987			.9999991			.9999993			.9999995	15.7
15.8	.9999977		-4	.9999984			.9999988			.9999992			.9999994			.9999995	15.8
15.9	.9999979			.9999985			.9999989			.9999992			.9999994			.9999996	15.9
16.0	.9999980			.9999986			.9999990			.9999993			.9999995			.9999996	16.0
16.1	.9999982			.9999987			.9999991			.9999993			.9999995			.9999996	16.1
16.2	.9999983			.9999988			.9999992			.9999994			.9999996			.9999997	16.2
16.3	.9999984			.9999989			.9999992			.9999994			.9999996			.9999997	16.3
16.4	.9999985			.9999990			.9999993			.9999995			.9999996			.9999997	16.4
16.5	.9999986			.9999991			.9999993			.9999995			.9999997			.9999997	16.5
16.6	.9999987			.9999991			.9999994			.9999996			.9999997			.9999998	16.6
16.7	.9999988			.9999992			.9999994			.9999996			.9999997			.9999998	16.7
16.8	.9999989			.9999993			.9999995			.9999997			.9999997			.9999998	16.8
16.9	.9999990			.9999993			.9999995			.9999997			.9999998			.9999998	16.9
17.0	.9999991			.9999994			.9999996			.9999997			.9999998			.9999998	17.0
17.1	.9999991			.9999994			.9999996			.9999997			.9999998			.9999998	17.1
17.2	.9999992			.9999994			.9999996			.9999997			.9999998			.9999999	17.2
17.3	.9999992			.9999995			.9999997			.9999998			.9999998			.9999999	17.3
17.4	.9999993			.9999995			.9999997			.9999998			.9999998			.9999999	17.4
17.5	.9999993			.9999996			.9999997			.9999998			.9999999			.9999999	17.5
17.6	.9999994			.9999996			.9999997			.9999998			.9999999			.9999999	17.6
17.7	.9999994			.9999996			.9999997			.9999998			.9999999			.9999999	17.7
17.8	.9999995			.9999997			.9999998			.9999998			.9999999			.9999999	17.8
17.9	.9999995			.9999997			.9999998			.9999999			.9999999			.9999999	17.9
18.0	.9999995			.9999997			.9999998			.9999999			.9999999			.9999999	18.0

$u$	$p = -0.25$		$p = -0.20$		$p = -0.15$		$p = -0.10$		$p = -0.05$		$p = 0.0$		$u$	
	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$I(u, p)$		$\delta_u^2$ $\delta_u^4$
12.0	-5		.9999886		-4	.9999903		.9999917		.9999929		.9999939		12.0
12.1	-5		.9999896		-4	.9999912		.9999925		.9999936		.9999944		12.1
12.2	-5		.9999905		-4	.9999919		.9999932		.9999942		.9999950		12.2
12.3	-4		.9999913		-4	.9999927		.9999938		.9999947		.9999954		12.3
12.4	-4		.9999921			.9999933		.9999944		.9999952		.9999959		12.4
12.5	-4		.9999927			.9999939		.9999949		.9999956		.9999963		12.5
12.6	-4		.9999934			.9999945		.9999953		.9999960		.9999966		12.6
12.7			.9999940			.9999950		.9999958		.9999964		.9999969		12.7
12.8			.9999945			.9999954		.9999962		.9999968		.9999972		12.8
12.9			.9999950			.9999958		.9999965		.9999971		.9999975		12.9
13.0			.9999954			.9999962		.9999968		.9999973		.9999977		13.0
13.1			.9999958			.9999965		.9999971		.9999976		.9999980		13.1
13.2			.9999962			.9999968		.9999974		.9999978		.9999981		13.2
13.3			.9999965			.9999971		.9999976		.9999980		.9999983		13.3
13.4			.9999968			.9999974		.9999978		.9999982		.9999985		13.4
13.5			.9999971			.9999976		.9999980		.9999984		.9999986		13.5
13.6			.9999973			.9999978		.9999982		.9999985		.9999988		13.6
13.7			.9999976			.9999980		.9999984		.9999987		.9999989		13.7
13.8			.9999978			.9999982		.9999985		.9999988		.9999990		13.8
13.9			.9999980			.9999984		.9999987		.9999989		.9999991		13.9
14.0			.9999982			.9999985		.9999988		.9999990		.9999992		14.0
14.1			.9999983			.9999986		.9999989		.9999991		.9999992		14.1
14.2			.9999985			.9999988		.9999990		.9999992		.9999993		14.2
14.3			.9999986			.9999989		.9999991		.9999993		.9999994		14.3
14.4			.9999987			.9999990		.9999992		.9999993		.9999994		14.4
14.5			.9999988			.9999991		.9999992		.9999994		.9999995		14.5
14.6			.9999989			.9999991		.9999993		.9999994		.9999995		14.6
14.7			.9999990			.9999992		.9999994		.9999995		.9999996		14.7
14.8			.9999991			.9999993		.9999994		.9999995		.9999996		14.8
14.9			.9999992			.9999994		.9999995		.9999996		.9999997		14.9
15.0			.9999993			.9999994		.9999995		.9999996		.9999997		15.0
15.1			.9999993			.9999995		.9999996		.9999997		.9999997		15.1
15.2			.9999994			.9999995		.9999996		.9999997		.9999997		15.2
15.3			.9999994			.9999996		.9999997		.9999997		.9999998		15.3
15.4			.9999995			.9999996		.9999997		.9999997		.9999998		15.4
15.5			.9999995			.9999996		.9999997		.9999998		.9999998		15.5
15.6			.9999996			.9999997		.9999997		.9999998		.9999998		15.6
15.7			.9999996			.9999997		.9999998		.9999998		.9999998		15.7
15.8			.9999997			.9999997		.9999998		.9999998		.9999999		15.8
15.9			.9999997			.9999997		.9999998		.9999998		.9999999		15.9
16.0			.9999997			.9999998		.9999998		.9999999		.9999999		16.0
16.1			.9999997			.9999998		.9999998		.9999999		.9999999		16.1
16.2			.9999998			.9999998		.9999998		.9999999		.9999999		16.2
16.3			.9999998			.9999998		.9999999		.9999999		.9999999		16.3
16.4			.9999998			.9999998		.9999999		.9999999		.9999999		16.4
16.5			.9999998			.9999999		.9999999		.9999999		.9999999		16.5
16.6			.9999998			.9999999		.9999999		.9999999		.9999999		16.6
16.7			.9999999			.9999999		.9999999		.9999999		.9999999		16.7
16.8			.9999999			.9999999		.9999999		.9999999		.9999999		16.8
16.9			.9999999			.9999999		.9999999		.9999999		1.0000000		16.9
17.0			.9999999			.9999999		.9999999		.9999999				17.0
17.1			.9999999			.9999999		.9999999		1.0000000				17.1
17.2			.9999999			.9999999		.9999999						17.2
17.3			.9999999			.9999999		.9999999						17.3
17.4			.9999999			.9999999		1.0000000						17.4
17.5			.9999999			.9999999								17.5
17.6			.9999999			1.0000000								17.6
17.7			.9999999											17.7
17.8			.9999999											17.8
17.9			1.0000000											17.9





TABLE III  
AUXILIARY TABLE  
VALUES OF THE FUNCTION  $\text{LOG } I(u, p)$   
FOR  $u = 0.0$  TO  $1.5$  AND  $p = -1.0$  TO  $10.0$   
 $I'(u, p) = I(u, p)/u^{p+1}$



p	u = 0.0			u = 0.1			u = 0.2			p
	log Γ'(u, p)	δ <sub>u</sub> <sup>2</sup> δ <sub>u</sub> <sup>4</sup>	δ <sub>p</sub> <sup>2</sup> δ <sub>p</sub> <sup>4</sup>	log Γ'(u, p)	δ <sub>u</sub> <sup>2</sup> δ <sub>u</sub> <sup>4</sup>	δ <sub>p</sub> <sup>2</sup> δ <sub>p</sub> <sup>4</sup>	log Γ'(u, p)	δ <sub>u</sub> <sup>2</sup> δ <sub>u</sub> <sup>4</sup>	δ <sub>p</sub> <sup>2</sup> δ <sub>p</sub> <sup>4</sup>	
-1.00	.00000000	0	0	.00000000	0	0	.00000000	0	0	-1.00
- .95	̄.197913639	+480 0	+1889635	̄.197867635	+474 0	+1906662	̄.197822105	+468 0	+1275401	- .95
- .90	̄.197165933	+1709 0	+412388	̄.197041932	+1681 0	+896790	̄.196919611	+1633 0	+381509	- .90
- .85	̄.196830615	+3437 0	+736699	̄.196612929	+8375 0	+726496	̄.196398619	+8314 0	+710243	- .85
- .80	̄.196718050	+5484 +1	+108539	̄.196397070	+5392 +1	+106885	̄.196081473	+5282 +1	+85288	- .80
- .75	̄.196742142	+7721 +1	+186507	̄.196311684	+7579 +1	+130473	̄.195888805	+7438 +1	+124478	- .75
- .70	̄.196854791	+10068 0	+55959	̄.196310852	+9876 +1	+17446	̄.195776788	+9897 +1	+90851	- .70
- .65	̄.197026039	+12422 0	+5995	̄.196366095	+12219 +1	+56975	̄.195718360	+11993 +1	+63858	- .65
- .60	̄.197235923	+14772 -2	+38636	̄.196458492	+14535 -2	+37154	̄.195695597	+14296 -2	+83555	- .60
- .55	̄.197470511	+17075 -5	+6681	̄.196574866	+16918 -4	+5744	̄.195696040	+16560 -4	+28208	- .55
- .50	̄.197719756	+19301 -7	+7229	̄.196705721	+19083 -7	+7463	̄.195710725	+18788 -6	+3495	- .50
- .45	̄.197976230	+21449 -10	+1831	̄.196844039	+21178 -9	+1794	̄.195733025	+20904 -9	+7615	- .45
- .40	̄.198234336	+23483 -13	+1320	̄.196984526	+23229 -13	+2169	̄.195757946	+22937 -13	+9621	- .40
- .35	̄.198489797	+25439 -17	+2645	̄.197123136	+25186 -16	+1248	̄.195781660	+24923 -15	+1365	- .35
- .30	̄.198739307	+27270 -20	+971	̄.197256731	+27043 -19	+906	̄.195801197	+26797 -18	+1307	- .30
- .25	̄.198980291	+29005 -23	+6951	̄.197382862	+28892 -22	+5015	̄.195814234	+28577 -21	+4177	- .25
- .20	̄.199210733	+30636 -26	+268	̄.197499603	+30463 -26	+13067	̄.195818936	+30254 -24	+5581	- .20
- .15	̄.199429045	+32166 -29	+1378	̄.197605433	+32027 -28	+934	̄.195813848	+31860 -27	+7225	- .15
- .10	̄.199633979	+33599 -31	+14360	̄.197699147	+33498 -31	+13067	̄.195797814	+33365 -31	+11807	- .10
- .05	̄.199824553	+34939 -34	+15127	̄.197779794	+34877 -34	+199	̄.195769913	+34783 -33	+1683	- .05
.00	.00000000	+36188 -36	+15725	̄.197846622	+36170 -36	+161	̄.195729413	+36116 -36	+2189	.00
.0	.00000000	+36188 -36	+15725	̄.197846622	+36170 -36	+161	̄.195729413	+36116 -36	+2189	.0
.1	.00303262	+38435 -40	+2271	̄.197936585	+38509 -40	+2146	̄.195608418	+38543 -40	+2922	.1
.2	.00540500	+40373 -42	+1595	̄.197965743	+40545 -42	+1426	̄.195431531	+40872 -44	+3543	.2
.3	.00709955	+42040 -44	+6753	̄.197932226	+42809 -45	+979	̄.195196805	+42632 -46	+4258	.3
.4	.00810882	+43461 -44	+8528	̄.197835136	+43829 -46	+664	̄.194903219	+44148 -47	+5038	.4
.5	.00843224	+44667 -44	+6854	̄.197674239	+45131 -46	+8907	̄.194550384	+45548 -48	+59243	.5
.6	.00807399	+45682 -45	+392	̄.197449759	+46238 -46	+317	̄.194138358	+46732 -48	+6825	.6
.7	.00704142	+46529 -41	+6476	̄.197162235	+47177 -44	+221	̄.193667506	+47781 -47	+7729	.7
.8	.00534408	+47228 -38	+144	̄.196812430	+47963 -49	+149	̄.193138414	+48855 -47	+8629	.8
.9	.00299298	+47797 -36	+92	̄.196401253	+48619 -39	+98	̄.192551822	+49399 -43	+9592	.9
1.0	.00000000	+48252 -32	+653	̄.195929710	+49145 -37	+84	̄.191908565	+50091 -36	+10411	1.0
1.1	̄.199637761	+48906 -29	+1669	̄.195398872	+49571 -39	+36	̄.191209554	+50593 -38	+11804	1.1
1.2	̄.199213852	+48872 -25	+6088	̄.194809843	+49994 -30	+17	̄.190455738	+50996 -34	+13439	1.2
1.3	̄.198729555	+49060 -21	+59113	̄.194163746	+50154 -26	+22	̄.189648092	+51222 -31	+15101	1.3
1.4	̄.198186144	+49179 -18	+6783	̄.193461708	+50332 -29	+22	̄.188787603	+51461 -27	+16659	1.4
1.5	̄.197584880	+49239 -14	+58616	̄.192704846	+50444 -28	+29	̄.187875255	+51630 -24	+18280	1.5
1.6	̄.196927000	+49244 -10	+5496	̄.191894264	+50499 -15	+23	̄.186912026	+51792 -20	+19916	1.6
1.7	̄.196213715	+49205 -6	+54926	̄.191031047	+50504 -11	+26	̄.185898883	+51792 -19	+21702	1.7
1.8	̄.195446204	+49124 -2	+83078	̄.190116257	+50464 -7	+27	̄.184836775	+51797 -13	+23593	1.8
1.9	̄.194625615	+49007 +2	+51964	̄.189150931	+50355 -3	+28	̄.183726631	+51759 -9	+25485	1.9
2.0	̄.193753063	+48859 +5	+50853	̄.188136077	+50270 0	+29	̄.182569361	+51633 -5	+27400	2.0
2.1	̄.192829628	+48859 +8	+49837	̄.187072676	+50126 +4	+28	̄.181365850	+51673 -1	+29316	2.1
2.2	̄.191856356	+48438 +13	+48824	̄.185961683	+49954 -3	+28	̄.180116963	+51432 +2	+31242	2.2
2.3	̄.190834260	+48263 +13	+47844	̄.184804021	+49758 -11	+28	̄.178823540	+51264 +6	+33170	2.3
2.4	̄.189764319	+48024 +18	+46897	̄.183600587	+49541 +14	+27	̄.177486396	+51073 +10	+35100	2.4
2.5	̄.188647482	+47789 +21	+45987	̄.182352251	+49307 +17	+26	̄.176106325	+50892 +13	+37020	2.5
2.6	̄.187484665	+47601 +24	+45096	̄.181059853	+49056 +20	+26	̄.174684097	+50631 +9	+38940	2.6
2.7	̄.186276753	+47321 +27	+44238	̄.179724211	+48782 +23	+25	̄.173220461	+50345 +19	+40860	2.7
2.8	̄.185024603	+46981 +29	+43410	̄.178346114	+48515 +26	+24	̄.171716139	+50125 +20	+42780	2.8
2.9	̄.183729043	+46639 +32	+42609	̄.176926327	+48228 +29	+23	̄.170171838	+49852 +24	+44700	2.9
3.0	̄.182390874	+46326 +34	+41835	̄.175465591	+47892 +31	+23	̄.168588240	+49569 +19	+46620	3.0
3.1	̄.181010870	+46016 +37	+41085	̄.173964624	+47629 +34	+21	̄.166966008	+49276 +19	+48540	3.1
3.2	̄.179589781	+45700 +38	+40360	̄.172424123	+47319 +36	+21	̄.165305784	+48975 +19	+50460	3.2
3.3	̄.178128332	+45360 +41	+39658	̄.170844760	+47005 +38	+21	̄.163608193	+48667 +18	+52380	3.3
3.4	̄.176627225	+45056 +42	+38972	̄.169227190	+46685 +40	+20	̄.161873841	+48354 +18	+54300	3.4
3.5	̄.175087139	+44731 +44	+38290	̄.167572046	+46369 +43	+19	̄.160103315	+48046 +17	+56220	3.5
3.6	̄.173508733	+44404 +46	+37602	̄.165879942	+46057 +44	+18	̄.158297188	+47714 +16	+58140	3.6
3.7	̄.171892645	+44075 +47	+37064	̄.164151475	+45710 +46	+17	̄.156456014	+47389 +15	+60060	3.7
3.8	̄.170239493	+43746 +49	+36465	̄.162387222	+45381 +47	+16	̄.154580331	+47062 +14	+62000	3.8
3.9	̄.168549877	+43419 +50	+35883	̄.160587745	+45051 +48	+16	̄.152670664	+46739 +14	+63940	3.9
4.0	̄.166824376	+43095 +51	+35319	̄.158753589	+44720 +50	+15	̄.150727521	+46401 +13	+65880	4.0

p	u = 0.3				u = 0.4				u = 0.5				p
	log I' (u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	log I' (u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	log I' (u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	
-1.00	.00000000	0	0	0	.00000000	0	0	0	.00000000	0	0	0	-1.00
-.95	I.97777042	+462	+1244860	0	I.97732441	+456	+1216691	0	I.97688296	+450	+1186888	0	-.95
-.90	I.96798944	+1026	+3667778	0	I.96679903	+1599	+352513	0	I.96562460	+1572	+338704	0	-.90
-.85	I.96187622	+3263	+104855	0	I.95979878	+3194	+186172	0	I.95775328	+3136	+177780	0	-.85
-.80	I.95771158	+5183	+118670	0	I.95466025	+5085	+113650	0	I.95165976	+4988	+107616	0	-.80
-.75	I.95473364	+7299	+76853	0	I.95065222	+7160	+73157	0	I.94664240	+7024	+69568	0	-.75
-.70	I.95252423	+9519	+51142	0	I.94737576	+9349	+48744	0	I.94232072	+9166	+46394	0	-.70
-.65	I.95082624	+11861	+24173	0	I.94458674	+11674	+32682	0	I.93846298	+11369	+31201	0	-.65
-.60	I.94946998	+14096	+25402	0	I.94212454	+13814	+21673	0	I.93491725	+13671	+20726	0	-.60
-.55	I.94833774	+15998	+13946	0	I.93987807	+16033	+18598	0	I.93157872	+15765	+19211	0	-.55
-.50	I.94734496	+18481	+7698	0	I.93776758	+18210	+7717	0	I.92837230	+17923	+7677	0	-.50
-.45	I.94642916	+20820	+2587	0	I.93573426	+20325	+3250	0	I.92524265	+20030	+3504	0	-.45
-.40	I.94554323	+22674	-623	0	I.93373374	+22379	-192	0	I.92214804	+22075	-365	0	-.40
-.35	I.94465107	+24046	-3450	0	I.93173200	+24353	-755	0	I.91905648	+24069	-708	0	-.35
-.30	I.94372461	+25339	-5631	0	I.92970257	+26251	-1461	0	I.91594303	+25053	-1449	0	-.30
-.25	I.94274184	+26391	-7374	0	I.92762463	+28064	-2498	0	I.91278809	+27778	-2716	0	-.25
-.20	I.94168533	+26941	-8760	0	I.92548171	+29795	-3716	0	I.90957605	+29098	-3958	0	-.20
-.15	I.94054122	+27164	-9866	0	I.92326061	+31443	-4874	0	I.90629443	+31195	-5195	0	-.15
-.10	I.93929845	+27219	-10753	0	I.92095077	+33066	-6023	0	I.90293318	+32786	-6573	0	-.10
-.05	I.93794815	+27099	-11464	0	I.91854370	+34494	-7248	0	I.89948420	+34301	-7933	0	-.05
.00	I.93648321	+26826	-12030	0	I.91603255	+35661	-8599	0	I.89594089	+35740	-9064	0	.00
.0	I.93648321	+26826	-12030	0	I.91603255	+35661	-8599	0	I.89594089	+35740	-9064	0	.0
.1	I.93318793	+35806	-12724	0	I.91067704	+36469	-9947	0	I.88855105	+35806	-10202	0	.1
.2	I.92937991	+40756	-13271	0	I.90485207	+40795	-1196	0	I.88073218	+40790	-11929	0	.2
.3	I.92503917	+42710	-14393	0	I.89853740	+42841	-1505	0	I.87246402	+42923	-14876	0	.3
.4	I.92015451	+44433	-15497	0	I.89172107	+44645	-1848	0	I.86373410	+44829	-16879	0	.4
.5	I.91472078	+46918	-16898	0	I.88439690	+46235	-2292	0	I.85453539	+46506	-19193	0	.5
.6	I.90873709	+47917	-17792	0	I.87656277	+47631	-2809	0	I.84486475	+47999	-22327	0	.6
.7	I.90220557	+48399	-18452	0	I.86821948	+48845	-3404	0	I.83472184	+49360	-25806	0	.7
.8	I.89513054	+48302	-18770	0	I.85936995	+49000	-4081	0	I.82410837	+50446	-29677	0	.8
.9	I.88751780	+50123	-19085	0	I.85001862	+50809	-4833	0	I.81302752	+51444	-33913	0	.9
1.0	I.87937422	+50817	-19445	0	I.84017094	+51387	-5566	0	I.80148354	+52308	-38510	0	1.0
1.1	I.87070738	+51396	-19843	0	I.82983319	+52247	-6311	0	I.78948147	+53051	-43263	0	1.1
1.2	I.86152539	+51873	-20276	0	I.81901213	+52891	-7079	0	I.77702689	+53685	-48555	0	1.2
1.3	I.85183661	+52259	-20744	0	I.80771488	+53369	-7864	0	I.76412575	+54219	-54433	0	1.3
1.4	I.84164959	+52663	-21241	0	I.79594878	+53832	-8674	0	I.75078429	+54683	-60895	0	1.4
1.5	I.83097294	+52793	-21763	0	I.78372127	+53927	-9506	0	I.73700888	+55026	-67748	0	1.5
1.6	I.81981527	+52958	-22309	0	I.77103987	+54153	-10361	0	I.72280599	+55315	-75099	0	1.6
1.7	I.80818511	+53065	-22879	0	I.75791204	+54315	-11241	0	I.70818212	+55538	-82949	0	1.7
1.8	I.79609089	+53118	-23471	0	I.74434522	+54422	-12146	0	I.69314377	+55701	-91303	0	1.8
1.9	I.78354090	+53125	-24084	0	I.73034675	+54478	-13076	0	I.67769737	+55810	-99988	0	1.9
2.0	I.77054327	+53090	-24716	0	I.71592384	+54488	-14031	0	I.66184929	+55869	-109939	0	2.0
2.1	I.75710597	+53018	-25366	0	I.70108361	+54457	-15001	0	I.64560583	+55885	-120211	0	2.1
2.2	I.74323676	+52912	-26034	0	I.68583300	+54399	-16004	0	I.62897315	+55854	-131374	0	2.2
2.3	I.72894323	+52777	-26719	0	I.67017883	+54291	-17041	0	I.61195734	+55800	-143019	0	2.3
2.4	I.71423278	+52615	-27419	0	I.65412776	+54181	-18111	0	I.59456434	+55707	-155193	0	2.4
2.5	I.69911262	+52429	-28133	0	I.63768627	+54066	-19221	0	I.57679998	+55584	-167868	0	2.5
2.6	I.68358973	+52223	-28861	0	I.62086072	+53926	-20371	0	I.55866996	+55436	-181113	0	2.6
2.7	I.66767095	+51998	-29604	0	I.60365728	+53767	-21561	0	I.54017986	+55264	-194948	0	2.7
2.8	I.65136289	+51757	-30361	0	I.58608196	+53497	-22791	0	I.52133510	+55070	-209293	0	2.8
2.9	I.63467202	+51501	-31131	0	I.56814066	+53173	-24111	0	I.50214102	+54856	-224114	0	2.9
3.0	I.61760458	+51233	-31911	0	I.54983908	+52921	-25531	0	I.48260279	+54628	-239488	0	3.0
3.1	I.60016667	+50963	-32701	0	I.53118279	+52657	-27051	0	I.46272548	+54384	-255411	0	3.1
3.2	I.58236420	+50684	-33501	0	I.51217720	+52382	-28661	0	I.44251402	+54126	-271813	0	3.2
3.3	I.56420293	+50396	-34311	0	I.49282760	+52097	-30371	0	I.42197323	+53855	-289613	0	3.3
3.4	I.54568846	+50061	-35131	0	I.47313912	+51803	-32181	0	I.40110781	+53577	-308813	0	3.4
3.5	I.52682621	+49760	-35951	0	I.45311677	+51501	-34091	0	I.37992234	+53285	-329113	0	3.5
3.6	I.50762148	+49434	-36781	0	I.43276543	+51192	-36101	0	I.35842129	+52985	-350413	0	3.6
3.7	I.48807942	+49113	-37621	0	I.41208983	+50878	-38211	0	I.33660903	+52681	-372713	0	3.7
3.8	I.46820502	+48788	-38471	0	I.39109462	+50559	-40421	0	I.31448980	+52369	-396013	0	3.8
3.9	I.44800315	+48461	-39321	0	I.36978428	+50235	-42731	0	I.29206775	+52053	-420413	0	3.9
4.0	I.42747855	+48131	-40181	0	I.34816321	+49909	-45141	0	I.26934695	+51730	-445813	0	4.0



$p$	$u = 0.0$				$u = 0.1$				$u = 0.2$				$p$
	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		
4.0	$\bar{I}$ .66824376	+43089 +51	-35319 -13		$\bar{I}$ .58753589	+44720 +50	-34158 -15		$\bar{I}$ .50727521	+48401 +45	-32681 -13		4.0
4.1	$\bar{I}$ .65063557	+42761 +53	-34772 -16		$\bar{I}$ .56885282	+44390 +62	-33338 -15		$\bar{I}$ .48751397	+46070 +50	-31599 -13		4.1
4.2	$\bar{I}$ .63267965	+42435 +54	-34241 -16		$\bar{I}$ .54983339	+44069 +63	-33137 -14		$\bar{I}$ .46742774	+45738 +51	-31032 -13		4.2
4.3	$\bar{I}$ .61438132	+42109 +55	-33720 -15		$\bar{I}$ .53048260	+43731 +64	-32853 -14		$\bar{I}$ .44702119	+45406 +53	-31576 -13		4.3
4.4	$\bar{I}$ .59574575	+41788 +56	-33223 -14		$\bar{I}$ .51080530	+43403 +55	-32179 -13		$\bar{I}$ .42629888	+45075 +54	-31139 -12		4.4
4.5	$\bar{I}$ .57677794	+41464 +56	-32786 -13		$\bar{I}$ .49080621	+43078 +56	-31736 -12		$\bar{I}$ .40526524	+44744 +55	-30701 -11		4.5
4.6	$\bar{I}$ .55748277	+41144 +56	-32263 -13		$\bar{I}$ .47048993	+42761 +57	-31272 -12		$\bar{I}$ .38392459	+44414 +56	-30281 -11		4.6
4.7	$\bar{I}$ .53786497	+40827 +56	-31802 -12		$\bar{I}$ .44986092	+42437 +58	-30838 -11		$\bar{I}$ .36228114	+44086 +57	-29871 -10		4.7
4.8	$\bar{I}$ .51792915	+40512 +56	-31364 -12		$\bar{I}$ .42892353	+42108 +59	-30414 -11		$\bar{I}$ .34033896	+43759 +58	-29473 -10		4.8
4.9	$\bar{I}$ .49767979	+40200 +58	-30915 -12		$\bar{I}$ .40768199	+41787 +60	-30002 -11		$\bar{I}$ .31810206	+43434 +59	-29084 -10		4.9
5.0	$\bar{I}$ .47712125	+39890 +56	-30494 -11		$\bar{I}$ .38614044	+41470 +61	-29600 -10		$\bar{I}$ .29557432	+43110 +60	-28765 -9		5.0
5.1	$\bar{I}$ .45625778	+39583 +57	-30085 -11		$\bar{I}$ .36430288	+41155 +61	-29209 -10		$\bar{I}$ .27275953	+42786 +61	-28336 -9		5.1
5.2	$\bar{I}$ .43509351	+39278 +58	-29678 -10		$\bar{I}$ .34217323	+40848 +62	-28828 -9		$\bar{I}$ .24966138	+42470 +62	-27976 -9		5.2
5.3	$\bar{I}$ .41363245	+38977 +59	-29286 -10		$\bar{I}$ .31975530	+40534 +62	-28456 -9		$\bar{I}$ .22628349	+42153 +62	-27629 -8		5.3
5.4	$\bar{I}$ .39187854	+38678 +60	-28903 -9		$\bar{I}$ .29705281	+40227 +63	-28093 -9		$\bar{I}$ .20262936	+41839 +63	-27286 -8		5.4
5.5	$\bar{I}$ .36983560	+38382 +61	-28531 -9		$\bar{I}$ .27406940	+39924 +63	-27789 -8		$\bar{I}$ .17870243	+41527 +64	-26945 -8		5.5
5.6	$\bar{I}$ .34750734	+38089 +62	-28170 -9		$\bar{I}$ .25080858	+39622 +64	-27394 -8		$\bar{I}$ .15450605	+41218 +64	-26618 -8		5.6
5.7	$\bar{I}$ .32489742	+37800 +62	-27813 -9		$\bar{I}$ .22727383	+39324 +64	-27057 -8		$\bar{I}$ .13004349	+40912 +64	-26298 -7		5.7
5.8	$\bar{I}$ .30200936	+37514 +63	-27467 -8		$\bar{I}$ .20346851	+39029 +64	-26728 -8		$\bar{I}$ .10531795	+40608 +64	-25986 -7		5.8
5.9	$\bar{I}$ .27884663	+37230 +63	-27138 -8		$\bar{I}$ .17939590	+38737 +65	-26407 -7		$\bar{I}$ .08033254	+40307 +65	-25681 -7		5.9
6.0	$\bar{I}$ .25541260	+36950 +63	-26800 -8		$\bar{I}$ .15505922	+38448 +64	-26093 -7		$\bar{I}$ .05509032	+40010 +65	-25388 -7		6.0
6.1	$\bar{I}$ .23171057	+36673 +63	-26473 -7		$\bar{I}$ .13046161	+38161 +64	-25787 -7		$\bar{I}$ .02959426	+39714 +65	-25092 -6		6.1
6.2	$\bar{I}$ .20774376	+36406 +63	-26164 -7		$\bar{I}$ .10560613	+37879 +64	-25487 -7		$\bar{I}$ .00384728	+39422 +66	-24807 -6		6.2
6.3	$\bar{I}$ .18351530	+36129 +63	-25867 -7		$\bar{I}$ .08049577	+37599 +64	-25194 -6		$\bar{I}$ .97785223	+39138 +66	-24528 -6		6.3
6.4	$\bar{I}$ .15902827	+35861 +63	-25567 -7		$\bar{I}$ .05513347	+37322 +64	-24908 -6		$\bar{I}$ .95161190	+38847 +66	-24258 -6		6.4
6.5	$\bar{I}$ .13428566	+35597 +62	-25264 -7		$\bar{I}$ .02952209	+37043 +64	-24628 -6		$\bar{I}$ .92512900	+38564 +66	-23986 -6		6.5
6.6	$\bar{I}$ .10929042	+35338 +62	-24977 -7		$\bar{I}$ .00366443	+36777 +64	-24354 -6		$\bar{I}$ .89840621	+38283 +66	-23728 -6		6.6
6.7	$\bar{I}$ .08404540	+35077 +62	-24687 -6		$\bar{I}$ .97756322	+36509 +64	-24087 -6		$\bar{I}$ .87144614	+38006 +66	-23473 -5		6.7
6.8	$\bar{I}$ .05855340	+34821 +62	-24423 -6		$\bar{I}$ .95122115	+36244 +64	-23824 -6		$\bar{I}$ .84425134	+37732 +66	-23223 -5		6.8
6.9	$\bar{I}$ .03281719	+34569 +62	-24164 -6		$\bar{I}$ .92464083	+35983 +64	-23568 -5		$\bar{I}$ .81682430	+37466 +66	-22978 -5		6.9
7.0	$\bar{I}$ .00683942	+34320 +62	-23892 -6		$\bar{I}$ .89782484	+35724 +64	-23316 -5		$\bar{I}$ .78916750	+37192 +66	-22738 -5		7.0
7.1	$\bar{I}$ .98062274	+34074 +61	-23635 -5		$\bar{I}$ .87077568	+35468 +64	-23070 -5		$\bar{I}$ .76128331	+36926 +67	-22503 -5		7.1
7.2	$\bar{I}$ .95416971	+33830 +61	-23383 -5		$\bar{I}$ .84349582	+35215 +64	-22829 -5		$\bar{I}$ .73317409	+36664 +67	-22279 -5		7.2
7.3	$\bar{I}$ .92748285	+33588 +61	-23137 -5		$\bar{I}$ .81598767	+34965 +64	-22583 -5		$\bar{I}$ .70484214	+36404 +68	-22047 -5		7.3
7.4	$\bar{I}$ .90056462	+33352 +61	-22896 -5		$\bar{I}$ .78825358	+34718 +64	-22332 -4		$\bar{I}$ .67628973	+36148 +68	-21826 -4		7.4
7.5	$\bar{I}$ .87341743	+33117 +61	-22659 -4		$\bar{I}$ .76029587	+34474 +63	-22185 -4		$\bar{I}$ .64751905	+35894 +66	-21609 -4		7.5
7.6	$\bar{I}$ .84604365	+32885 +61	-22425 -4		$\bar{I}$ .73211681	+34232 +63	-21913 -4		$\bar{I}$ .61853229	+35643 +66	-21396 -4		7.6
7.7	$\bar{I}$ .81844560	+32656 +61	-22200 -4		$\bar{I}$ .70371862	+33994 +63	-21698 -4		$\bar{I}$ .58933157	+35394 +66	-21188 -4		7.7
7.8	$\bar{I}$ .79062554	+32436 +60	-21978 -4		$\bar{I}$ .67510347	+33758 +63	-21482 -4		$\bar{I}$ .55991897	+35149 +66	-20983 -4		7.8
7.9	$\bar{I}$ .76258570	+32226 +60	-21760 -4		$\bar{I}$ .64627350	+33525 +63	-21272 -4		$\bar{I}$ .53029655	+34907 +66	-20782 -4		7.9
8.0	$\bar{I}$ .73432826	+31985 +60	-21546 -4		$\bar{I}$ .61723081	+33295 +62	-21067 -4		$\bar{I}$ .50046630	+34667 +66	-20586 -4		8.0
8.1	$\bar{I}$ .70585536	+31766 +60	-21336 -4		$\bar{I}$ .58797744	+33067 +62	-20865 -4		$\bar{I}$ .47043020	+34430 +66	-20392 -4		8.1
8.2	$\bar{I}$ .67716910	+31531 +60	-21130 -4		$\bar{I}$ .55851543	+32849 +62	-20668 -4		$\bar{I}$ .44019018	+34199 +65	-20202 -4		8.2
8.3	$\bar{I}$ .64827153	+31338 +59	-20929 -4		$\bar{I}$ .52884674	+32620 +62	-20479 -4		$\bar{I}$ .40974814	+33964 +64	-20018 -4		8.3
8.4	$\bar{I}$ .61916468	+31127 +59	-20736 -4		$\bar{I}$ .49897331	+32400 +61	-20283 -4		$\bar{I}$ .37910594	+33735 +64	-19833 -4		8.4
8.5	$\bar{I}$ .58985052	+30919 +59	-20536 -4		$\bar{I}$ .46889705	+32183 +61	-20098 -4		$\bar{I}$ .34826542	+33508 +64	-19653 -4		8.5
8.6	$\bar{I}$ .56033100	+30713 +58	-20345 -4		$\bar{I}$ .43861984	+31969 +61	-19912 -4		$\bar{I}$ .31722836	+33284 +64	-19477 -4		8.6
8.7	$\bar{I}$ .53060803	+30510 +58	-20158 -4		$\bar{I}$ .40814350	+31757 +61	-19732 -4		$\bar{I}$ .28599654	+33063 +64	-19303 -4		8.7
8.8	$\bar{I}$ .50068348	+30306 +58	-19974 -4		$\bar{I}$ .37746985	+31547 +60	-19555 -4		$\bar{I}$ .25457169	+32844 +63	-19138 -4		8.8
8.9	$\bar{I}$ .47055919	+30111 +57	-19793 -4		$\bar{I}$ .34660065	+31340 +60	-19381 -4		$\bar{I}$ .22295550	+32628 +63	-18968 -4		8.9
9.0	$\bar{I}$ .44023697	+29915 +57	-19616 -4		$\bar{I}$ .31553764	+31135 +60	-19210 -4		$\bar{I}$ .19114966	+32414 +62	-18801 -4		9.0
9.1	$\bar{I}$ .40971859	+29721 +57	-19442 -4		$\bar{I}$ .28428254	+30933 +59	-19041 -4		$\bar{I}$ .15915581	+32203 +62	-18639 -4		9.1
9.2	$\bar{I}$ .37900580	+29530 +57	-19270 -4		$\bar{I}$ .25283702	+30732 +59	-18876 -4		$\bar{I}$ .12697557	+31994 +62	-18486 -4		9.2
9.3	$\bar{I}$ .34810030	+29340 +56	-19102 -4		$\bar{I}$ .22120274	+30534 +58	-18714 -4		$\bar{I}$ .09461052	+31787 +62	-18324 -4		9.3
9.4	$\bar{I}$ .31700379	+29153 +56	-18936 -4		$\bar{I}$ .18938132	+30339 +59	-18554 -4		$\bar{I}$ .06206223	+31583 +62	-18170 -4		9.4
9.5	$\bar{I}$ .28571791	+28968 +56	-18774 -4		$\bar{I}$ .15737435	+30148 +58	-18398 -4		$\bar{I}$ .02933224	+31381 +61	-18019 -4		9.5
9.6	$\bar{I}$ .25424430	+28788 +55	-18614 -4		$\bar{I}$ .12518341	+29955 +58	-18248 -4		$\bar{I}$ .99642206	+31181 +61	-17871 -4		9.6
9.7	$\bar{I}$ .22258455	+28606 +55	-18457 -4		$\bar{I}$ .09281003	+29766 +58	-18091 -4		$\bar{I}$ .96333317	+30984 +61	-17724 -4		9.7
9.8	$\bar{I}$ .19074023	+28427 +54	-18302 -4		$\bar{I}$ .06025574	+29579 +58	-17942 -4		$\bar{I}$ .93006704	+30799 +60	-17581 -4		9.8
9.9	$\bar{I}$ .15871289	+28250 +54											



p	u = 0.3			u = 0.4			u = 0.5			p
	log I' (u, p)	$\delta_u^2$	$\delta_p^2$	log I' (u, p)	$\delta_u^2$	$\delta_p^2$	log I' (u, p)	$\delta_u^2$	$\delta_p^2$	
		$\delta_u^4$	$\delta_p^4$		$\delta_u^4$	$\delta_p^4$		$\delta_u^4$	$\delta_p^4$	
4.0	I.42747855	+48182 -47	-31813 -12	I.34816321	+49909 +44	-30640 -10	I.26934695	+51790 +41	-29481 -10	4.0
4.1	I.40663582	+47980 +49	-31968 -12	I.32623568	+40579 +46	-30223 -10	I.24633132	+61405 +44	-29096 -6	4.1
4.2	I.38547946	+47467 +61	-30926 -11	I.30400586	+49248 +46	-29922 -10	I.22302474	+51076 +46	-29719 -9	4.2
4.3	I.36401384	+47134 +82	-30501 -11	I.28147783	+43014 +50	-29425 -10	I.19943097	+50744 +47	-28532 -9	4.3
4.4	I.34224321	+46901 +54	-30086 -11	I.25865554	+48980 +51	-29039 -10	I.17555367	+50411 +49	-27993 -9	4.4
4.5	I.32017171	+46467 +55	-29682 -10	I.23554286	+48245 +63	-28662 -9	I.15139645	+50076 +61	-27648 -8	4.5
4.6	I.29780340	+46134 +60	-29288 -10	I.21214355	+47910 +52	-28284 -9	I.12696279	+49740 +53	-27300 -5	4.6
4.7	I.27514221	+45901 +57	-28904 -9	I.18846130	+47674 +66	-27935 -6	I.10225614	+49403 +64	-26966 -7	4.7
4.8	I.25219198	+45470 +65	-28529 -9	I.16449971	+47239 +67	-27665 -6	I.07727982	+49065 +66	-26639 -7	4.8
4.9	I.22895646	+45140 +69	-28164 -9	I.14026226	+46946 +68	-27349 -8	I.05203711	+48728 +67	-26320 -7	4.9
5.0	I.20543930	+44811 +60	-27807 -8	I.11575239	+46571 +59	-26998 -6	I.02653120	+48391 +68	-26008 -7	5.0
5.1	I.18164407	+44484 +61	-27460 -8	I.09097344	+46239 +60	-26682 -7	I.00076521	+48055 +69	-25708 -7	5.1
5.2	I.15757424	+44168 +61	-27120 -6	I.06592867	+46008 +61	-26363 -7	I.97474219	+47719 +61	-25404 -6	5.2
5.3	I.13323321	+43856 +62	-26788 -6	I.04062127	+45579 +62	-25981 -7	I.94846513	+47385 +62	-25118 -6	5.3
5.4	I.10862429	+43513 +63	-26464 -7	I.01505436	+45251 +63	-25647 -7	I.92193694	+47052 +63	-24827 -6	5.4
5.5	I.08375074	+43184 +63	-26148 -7	I.98923099	+44925 +64	-25349 -7	I.89516049	+46720 +64	-24548 -6	5.5
5.6	I.05861570	+42873 +64	-25839 -7	I.96315412	+44601 +65	-25058 -6	I.86813856	+46390 +64	-24274 -6	5.6
5.7	I.03322227	+42583 +65	-25537 -7	I.93682668	+44280 +65	-24773 -6	I.84087389	+46061 +65	-24007 -6	5.7
5.8	I.00757347	+42294 +65	-25242 -7	I.91025151	+43960 +66	-24494 -6	I.81336915	+45735 +66	-23745 -5	5.8
5.9	I.98167225	+41943 +66	-24968 -6	I.88343139	+43643 +67	-24223 -6	I.78562696	+45411 +66	-23486 -5	5.9
6.0	I.95552151	+41636 +66	-24671 -6	I.85636906	+43329 +67	-23955 -6	I.75764990	+45088 +67	-23237 -6	6.0
6.1	I.92912406	+41332 +67	-24394 -6	I.82906718	+43017 +67	-23684 -5	I.72944046	+44768 +68	-22991 -5	6.1
6.2	I.90248266	+41031 +67	-24124 -6	I.80152835	+42707 +68	-23438 -5	I.70100112	+44450 +69	-22760 -5	6.2
6.3	I.87560003	+40738 +67	-23860 -6	I.77375515	+42400 +68	-23188 -5	I.67233427	+44135 +69	-22514 -5	6.3
6.4	I.84847879	+40435 +67	-23601 -6	I.74575006	+42086 +68	-22943 -5	I.64344229	+43822 +70	-22282 -4	6.4
6.5	I.82112155	+40145 +68	-23345 -6	I.71751555	+41784 +69	-22703 -6	I.61432749	+43612 +70	-22055 -4	6.5
6.6	I.79353083	+39856 +68	-23099 -6	I.68905400	+41486 +69	-22467 -6	I.58499213	+43404 +70	-21833 -4	6.6
6.7	I.76570912	+39569 +68	-22856 -6	I.66036778	+41200 +69	-22237 -6	I.55543844	+43200 +71	-21615 -4	6.7
6.8	I.73765884	+39285 +68	-22618 -5	I.63145919	+40906 +69	-22011 -6	I.52566861	+42997 +71	-21401 -4	6.8
6.9	I.70938238	+38994 +68	-22385 -4	I.60233050	+40616 +70	-21790 -4	I.49568477	+42797 +71	-21191 -4	6.9
7.0	I.68088207	+38726 +68	-22157 -4	I.57298390	+40326 +70	-21572 -4	I.46548902	+42600 +71	-20985 -4	7.0
7.1	I.65216019	+38451 +68	-21933 -4	I.54342159	+40044 +70	-21359 -4	I.43508342	+42406 +72	-20783 -4	7.1
7.2	I.62321899	+38179 +68	-21713 -4	I.51364568	+39762 +70	-21150 -4	I.40446998	+42215 +72	-20585 -4	7.2
7.3	I.59406065	+37910 +68	-21495 -4	I.48365826	+39483 +70	-20946 -4	I.37365070	+42126 +73	-20390 -4	7.3
7.4	I.56468734	+37643 +68	-21280 -4	I.45346139	+39207 +70	-20744 -4	I.34262751	+42040 +73	-20190 -4	7.4
7.5	I.53510117	+37380 +68	-21079 -4	I.42305708	+38933 +70	-20547 -4	I.31140233	+42057 +73	-20012 -4	7.5
7.6	I.50530420	+37118 +68	-20878 -4	I.39244730	+38663 +70	-20353 -4	I.27997703	+42077 +73	-19825 -4	7.6
7.7	I.47529847	+36861 +67	-20677 -4	I.36163398	+38396 +71	-20163 -4	I.24835345	+42099 +72	-19647 -4	7.7
7.8	I.44508597	+36606 +67	-20481 -4	I.33061903	+38180 +70	-19977 -4	I.21653340	+42124 +72	-19469 -4	7.8
7.9	I.41466866	+36364 +67	-20289 -4	I.29940432	+37968 +70	-19793 -4	I.18451865	+42152 +72	-19295 -4	7.9
8.0	I.38404846	+36104 +67	-20101 -4	I.26799167	+37760 +70	-19618 -4	I.15231096	+42183 +72	-19123 -4	8.0
8.1	I.35322725	+35858 +67	-19916 -4	I.23638288	+37562 +70	-19437 -4	I.11991203	+42217 +72	-18955 -4	8.1
8.2	I.32220689	+35614 +67	-19734 -4	I.20457973	+37369 +69	-19263 -4	I.08732356	+42259 +72	-18789 -4	8.2
8.3	I.29098918	+35372 +67	-19555 -4	I.17258395	+37187 +69	-19092 -4	I.05454719	+42302 +72	-18626 -4	8.3
8.4	I.25957593	+35134 +67	-19380 -4	I.14039724	+36999 +69	-18925 -4	I.02158455	+42354 +72	-18467 -4	8.4
8.5	I.22796887	+34907 +67	-19205 -4	I.10802129	+36833 +68	-18760 -4	I.98843725	+42417 +71	-18309 -4	8.5
8.6	I.19616973	+34694 +66	-19038 -4	I.07545774	+36670 +69	-18596 -4	I.95510686	+42485 +71	-18155 -4	8.6
8.7	I.16418021	+34483 +66	-18872 -4	I.04270822	+36510 +69	-18430 -4	I.92159492	+42557 +71	-18002 -4	8.7
8.8	I.13200197	+34206 +66	-18709 -4	I.00977430	+36362 +69	-18263 -4	I.88790296	+42632 +71	-17853 -4	8.8
8.9	I.09963664	+33950 +66	-18548 -4	I.97665757	+36217 +68	-18106 -4	I.85403247	+42709 +71	-17706 -4	8.9
9.0	I.06708582	+33767 +65	-18390 -4	I.94335955	+36084 +68	-17957 -4	I.81998492	+42791 +71	-17561 -4	9.0
9.1	I.03435111	+33586 +65	-18235 -4	I.90988177	+35964 +68	-17828 -4	I.78576177	+42877 +71	-17418 -4	9.1
9.2	I.00143405	+33318 +65	-18082 -4	I.87622571	+35856 +67	-17681 -4	I.75136444	+42967 +70	-17278 -4	9.2
9.3	I.96833617	+33102 +64	-17932 -4	I.84239285	+34706 +67	-17537 -4	I.71679433	+43060 +70	-17140 -4	9.3
9.4	I.93505898	+32886 +64	-17784 -4	I.80838461	+34525 +67	-17396 -4	I.68205282	+43157 +70	-17004 -4	9.4
9.5	I.90160394	+32678 +64	-17639 -4	I.77420242	+34368 +67	-17266 -4	I.64714127	+43257 +70	-16870 -4	9.5
9.6	I.86797252	+32499 +63	-17496 -4	I.73984767	+34220 +66	-17118 -4	I.61206103	+43357 +69	-16738 -4	9.6
9.7	I.83416614	+32293 +63	-17355 -4	I.70532175	+34084 +66	-16983 -4	I.57681339	+43457 +69	-16609 -4	9.7
9.8	I.80018622	+32090 +63	-17216 -4	I.67062599	+33961 +66	-16850 -4	I.54139967	+43557 +69	-16481 -4	9.8
9.9	I.76603414	+31898 +62	-17080 -4	I.63576174	+33840 +65	-16719 -4	I.50582114	+43657 +68	-16355 -4	9.9
10.0	I.73171126	+31657 +62	-16946 -4	I.60073030	+32971 +65	-16590 -4	I.47007906	+43451 +68	-16231 -4	10.0



p	u = 0.5			u = 0.6			u = 0.7			p
	log I'(u, p)	δ <sub>p</sub> <sup>2</sup> δ <sub>u</sub> <sup>2</sup>	δ <sub>p</sub> <sup>3</sup> δ <sub>u</sub> <sup>3</sup>	log I'(u, p)	δ <sub>p</sub> <sup>2</sup> δ <sub>u</sub> <sup>2</sup>	δ <sub>p</sub> <sup>3</sup> δ <sub>u</sub> <sup>3</sup>	log I'(u, p)	δ <sub>p</sub> <sup>2</sup> δ <sub>u</sub> <sup>2</sup>	δ <sub>p</sub> <sup>3</sup> δ <sub>u</sub> <sup>3</sup>	
-1.00	.00000000	0	0	.00000000	0	0	.00000000	0	0	-1.00
-.95	Ī.97688296	+450	+118898	Ī.97644601	+444	+115738	Ī.97601349	+438	+112968	-.95
-.90	Ī.96562460	+1572	+338764	Ī.96446588	+1546	+325339	Ī.96332263	+1520	+312402	-.90
-.85	Ī.95775328	+3136	+677800	Ī.95573914	+3078	+650676	Ī.95375579	+3022	+618154	-.85
-.80	Ī.95165976	+4988	+107818	Ī.94870916	+4893	+102394	Ī.94580749	+4790	+97298	-.80
-.75	Ī.94664240	+7024	+169588	Ī.94270282	+6887	+160998	Ī.93883211	+6756	+152712	-.75
-.70	Ī.94232072	+9156	+243884	Ī.93735734	+8992	+228007	Ī.93248387	+8818	+213727	-.70
-.65	Ī.93846298	+11382	+332000	Ī.93245283	+11161	+297350	Ī.92655420	+10940	+28284	-.65
-.60	Ī.93491725	+13571	+435120	Ī.92784567	+13928	+399210	Ī.92090737	+13034	+42654	-.60
-.55	Ī.93157872	+15785	+563120	Ī.92343702	+16495	+52788	Ī.91545028	+15223	+58233	-.55
-.50	Ī.92837230	+17923	+71777	Ī.91915625	+17039	+7585	Ī.91011652	+17338	+7450	-.50
-.45	Ī.92524265	+20030	+8974	Ī.91495133	+19724	+9868	Ī.90485726	+19413	+9207	-.45
-.40	Ī.92214804	+22075	+10974	Ī.91078309	+21761	+12611	Ī.89963574	+21438	+11968	-.40
-.35	Ī.91905648	+24050	+13189	Ī.90662146	+23734	+15891	Ī.89442378	+23406	+15241	-.35
-.30	Ī.91594303	+25953	+15634	Ī.90244302	+25639	+19828	Ī.88919941	+25312	+19776	-.30
-.25	Ī.91278809	+27778	+18313	Ī.89822932	+27474	+24908	Ī.88394528	+27151	+24857	-.25
-.20	Ī.90957605	+29525	+21158	Ī.89396564	+29235	+31277	Ī.87864758	+28923	+30826	-.20
-.15	Ī.90629443	+31195	+24182	Ī.88964019	+30922	+38929	Ī.87329518	+30526	+38703	-.15
-.10	Ī.90293318	+32798	+27418	Ī.88524345	+32638	+47901	Ī.86787908	+32259	+47611	-.10
-.05	Ī.89948420	+34301	+30878	Ī.88076770	+34077	+58331	Ī.86239197	+31823	+57971	-.05
-.00	Ī.89594089	+35740	+34563	Ī.87620664	+35546	+70429	Ī.85682785	+31319	+69819	-.00
.0	Ī.89594089	+35740	+34563	Ī.87620664	+35546	+70429	Ī.85682785	+31319	+69819	.0
.1	Ī.88855105	+37403	+38692	Ī.86809098	+37278	+84133	Ī.84544987	+30811	+82288	.1
.2	Ī.88073218	+39090	+43290	Ī.85702019	+39041	+99730	Ī.83371562	+30264	+95704	.2
.3	Ī.87246402	+40823	+48478	Ī.84681988	+40808	+117422	Ī.82160532	+29688	+109308	.3
.4	Ī.86373410	+42613	+54288	Ī.83619535	+40745	+136887	Ī.80910605	+29081	+124347	.4
.5	Ī.85453539	+44460	+60663	Ī.82513894	+40719	+158269	Ī.79620968	+28449	+140017	.5
.6	Ī.84486475	+46365	+67648	Ī.81364666	+40699	+182871	Ī.78291156	+27799	+156387	.6
.7	Ī.83472184	+48330	+75282	Ī.80171721	+40685	+210009	Ī.76920957	+27139	+173499	.7
.8	Ī.82410837	+50446	+83617	Ī.78935124	+40685	+239944	Ī.75510348	+26469	+191389	.8
.9	Ī.81302752	+52744	+92713	Ī.77655086	+40698	+282247	Ī.74059445	+25781	+210978	.9
1.0	Ī.80148354	+55208	+10258	Ī.76331923	+40726	+33932	Ī.72568467	+25087	+23179	1.0
1.1	Ī.78948147	+57851	+11322	Ī.74966027	+40764	+40282	Ī.71037710	+24362	+25425	1.1
1.2	Ī.77702689	+60585	+12468	Ī.73557849	+40811	+47290	Ī.69467528	+23608	+27742	1.2
1.3	Ī.76412575	+63519	+13700	Ī.72107881	+40868	+55009	Ī.67858318	+22836	+30161	1.3
1.4	Ī.75078429	+66563	+15029	Ī.70616642	+40945	+63471	Ī.66210506	+22049	+32716	1.4
1.5	Ī.73700888	+69820	+16463	Ī.69084673	+41041	+72609	Ī.64524544	+21249	+35487	1.5
1.6	Ī.72280599	+73295	+18003	Ī.67512526	+41156	+82697	Ī.62800894	+20436	+38381	1.6
1.7	Ī.70818212	+76990	+19648	Ī.65900758	+41290	+93798	Ī.61040033	+19609	+41403	1.7
1.8	Ī.69314377	+80901	+21400	Ī.64249933	+41443	+106091	Ī.59242439	+18779	+44649	1.8
1.9	Ī.67769737	+85019	+23261	Ī.62560609	+41615	+119691	Ī.57408596	+17946	+48017	1.9
2.0	Ī.66184929	+89359	+25233	Ī.60833343	+41807	+134697	Ī.55538986	+17111	+51527	2.0
2.1	Ī.64560583	+93921	+27318	Ī.59068689	+42019	+151244	Ī.53634089	+16276	+55181	2.1
2.2	Ī.62897315	+98714	+29520	Ī.57267190	+42251	+169407	Ī.51694381	+15441	+58986	2.2
2.3	Ī.61195734	+103739	+31841	Ī.55429384	+42503	+189299	Ī.49720333	+14606	+62957	2.3
2.4	Ī.59456434	+109077	+34383	Ī.53555799	+42775	+211000	Ī.47712410	+13771	+67091	2.4
2.5	Ī.57679998	+114720	+37136	Ī.51646954	+43067	+234611	Ī.45671070	+12936	+71406	2.5
2.6	Ī.55866996	+120783	+40101	Ī.49703357	+43379	+260194	Ī.43596764	+12101	+75911	2.6
2.7	Ī.54017986	+127156	+43280	Ī.47725508	+43711	+287909	Ī.41489936	+11266	+80516	2.7
2.8	Ī.52133510	+133879	+46685	Ī.45713895	+44063	+317904	Ī.39351020	+10431	+85221	2.8
2.9	Ī.50214102	+141042	+50316	Ī.43668996	+44435	+350309	Ī.37180445	+9596	+89926	2.9
3.0	Ī.48260279	+148655	+54271	Ī.41591279	+44827	+385904	Ī.34978629	+8761	+94631	3.0
3.1	Ī.46272548	+156788	+58462	Ī.39481201	+45239	+424009	Ī.32745982	+7926	+99336	3.1
3.2	Ī.44251402	+165441	+62987	Ī.37339210	+45671	+464214	Ī.30482908	+7091	+104041	3.2
3.3	Ī.42197323	+174634	+67838	Ī.35165742	+46123	+506519	Ī.28189799	+6256	+108746	3.3
3.4	Ī.40110781	+184377	+73253	Ī.32961225	+46595	+551924	Ī.25867042	+5421	+113451	3.4
3.5	Ī.37992234	+194670	+79278	Ī.30726076	+47097	+600429	Ī.23515015	+4586	+118156	3.5
3.6	Ī.35842129	+205603	+85923	Ī.28460702	+47619	+652074	Ī.21134087	+3751	+122861	3.6
3.7	Ī.33660903	+217176	+93168	Ī.26165503	+48161	+707079	Ī.18724621	+2916	+127566	3.7
3.8	Ī.31448980	+229399	+101013	Ī.23840867	+48723	+765584	Ī.16286971	+2081	+132271	3.8
3.9	Ī.29206775	+242272	+109358	Ī.21487175	+49305	+827809	Ī.13821483	+1246	+136976	3.9
4.0	Ī.26934695	+255805	+118203	Ī.19104799	+49907	+893934	Ī.11328497	+411	+141681	4.0



p	u = 0.8			u = 0.9			u = 1.0			p
	log I'(u, p)	$\delta_u^2$	$\delta_p^2$	log I'(u, p)	$\delta_u^2$	$\delta_p^2$	log I'(u, p)	$\delta_u^2$	$\delta_p^2$	
-1.00	.00000000	0	0	.00000000	0	0	.00000000	0	0	-1.00
-.95	I-97558535	+482	+1102885	I-97516153	+428	+1076842	I-97474197	+421	+1040912	-.95
-.90	I-96219458	+1495	+299883	I-96108148	+1470	+287773	I-95998306	+1446	+276063	-.90
-.85	I-95180264	+2065	+154311	I-94987916	+2011	+147036	I-94798478	+2058	+140022	-.85
-.80	I-94295381	+4705	+83660	I-94014720	+4615	+81375	I-93738672	+4525	+79161	-.80
-.75	I-93502895	+6022	+69446	I-93129201	+6491	+56294	I-92761998	+6362	+53245	-.75
-.70	I-92769859	+3646	+15182	I-92299976	+3476	+12841	I-91838569	+3307	+12134	-.70
-.65	I-92076496	+10791	+39274	I-91508303	+10522	+6645	I-90950632	+10817	+6348	-.65
-.60	I-91409991	+12841	+26855	I-90742085	+12597	+25455	I-90086777	+12355	+24082	-.60
-.55	I-90761577	+14950	+18091	I-89993076	+14675	+17299	I-89239249	+14403	+16327	-.55
-.50	I-90125016	+17049	+11853	I-89255421	+16740	+11354	I-88402565	+16438	+10844	-.50
-.45	I-89495731	+18964	+7276	I-88524832	+18774	+7068	I-87572707	+18451	+6826	-.45
-.40	I-88870278	+21108	+3532	I-87798089	+20771	+3846	I-86746671	+20429	+3222	-.40
-.35	I-88246017	+23065	+804	I-87072723	+22720	+197	I-85922150	+22368	+697	-.35
-.30	I-87620891	+24871	+1192	I-86346813	+24815	+583	I-85097352	+24264	+1610	-.30
-.25	I-86993276	+26802	+683	I-85618837	+26851	+899	I-84270858	+26692	+273	-.25
-.20	I-863631875	+28992	+281	I-84887584	+28243	+230	I-83441536	+27877	+210	-.20
-.15	I-85725642	+30367	+18	I-84152073	+29985	+184	I-82608469	+29699	+173	-.15
-.10	I-85083730	+31956	+197	I-83411507	+31628	+595	I-81770913	+31277	+4489	-.10
-.05	I-84435447	+33640	+6371	I-82665237	+33229	+148	I-80928255	+32892	+131	-.05
-.00	I-83780225	+35059	+124	I-81912724	+34769	+624	I-80079992	+34449	+373	-.00
.0	I-83780225	+35059	+82	I-81912724	+34769	+76	I-80079992	+34449	+71	.0
.1	I-82447178	+37008	-29542	I-81191274	+34769	-26884	I-78365042	+34449	-24028	.1
.2	I-81081752	+40612	-31345	I-80387276	+37689	-30	I-76623489	+37891	-1158	.2
.3	I-79682021	+42888	-32708	I-78832454	+40332	-2074	I-74853537	+40617	-2608	.3
.4	I-78246691	+45935	-34306	I-77246302	+42773	-38	I-73053936	+44917	-34	.4
.5	I-76774921	+46984	-35998	I-73975858	+47922	-47	I-71223826	+47024	-46	.5
.6	I-75266194	+45742	-36449	I-72289974	+49876	-62	I-69362630	+48949	-58	.6
.7	I-73720234	+50823	-37234	I-70569834	+50544	-66	I-67469978	+50708	-60	.7
.8	I-72136941	+51742	-37832	I-68815276	+52051	-69	I-65545661	+52096	-63	.8
.9	I-70516351	+53009	-383	I-67026267	+53498	-33	I-63589590	+53741	-66	.9
1.0	I-68858599	+54138	-37168	I-65202869	+54825	-34	I-61601764	+55046	-68	1.0
1.1	I-67163895	+55139	-36957	I-63345219	+56714	-35	I-59582257	+56221	-69	1.1
1.2	I-65432507	+56092	-36657	I-61453509	+58683	-36	I-57531193	+57277	-70	1.2
1.3	I-63664748	+56798	-36372	I-59527975	+57542	-37	I-55448744	+58220	-71	1.3
1.4	I-61860959	+57474	-36028	I-57568886	+59299	-38	I-53335112	+59060	-72	1.4
1.5	I-60021511	+58058	-35681	I-55576536	+58963	-39	I-51190524	+60005	-73	1.5
1.6	I-58146787	+58559	-35275	I-53551239	+59540	-40	I-49015230	+60480	-74	1.6
1.7	I-56237185	+58983	-34878	I-51493321	+60037	-41	I-46809493	+61082	-75	1.7
1.8	I-54293111	+59337	-34472	I-49403119	+60469	-42	I-44573588	+61529	-76	1.8
1.9	I-52314975	+59626	-34062	I-47280979	+60818	-43	I-42307799	+61925	-77	1.9
2.0	I-50303189	+59856	-33649	I-45127248	+61110	-44	I-40012416	+62315	-78	2.0
2.1	I-48258168	+60081	-33234	I-42942277	+61346	-45	I-37687733	+62616	-79	2.1
2.2	I-46180322	+60237	-32824	I-40726420	+61529	-46	I-35334047	+62920	-80	2.2
2.3	I-44070061	+60327	-32415	I-38480026	+61684	-47	I-32951656	+63263	-81	2.3
2.4	I-41927790	+60276	-32010	I-36203447	+61754	-48	I-30540859	+63619	-82	2.4
2.5	I-39753912	+60277	-31605	I-33897030	+61804	-49	I-28101953	+63900	-83	2.5
2.6	I-37548821	+60243	-31200	I-31561120	+61816	-50	I-25652325	+64391	-84	2.6
2.7	I-35312908	+60177	-30795	I-29196057	+61792	-51	I-23140999	+64935	-85	2.7
2.8	I-33046559	+60081	-30390	I-26802179	+61735	-52	I-20619537	+65537	-86	2.8
2.9	I-30750152	+59950	-29985	I-24379819	+61654	-53	I-18071140	+66194	-87	2.9
3.0	I-28424060	+59814	-29580	I-21929304	+61543	-54	I-15496092	+66890	-88	3.0
3.1	I-26068648	+59646	-29175	I-19450959	+61408	-55	I-12894678	+67629	-89	3.1
3.2	I-23684275	+59458	-28770	I-16945101	+61261	-56	I-10267177	+68417	-90	3.2
3.3	I-21271295	+59252	-28365	I-14412043	+61073	-57	I-07613865	+69259	-91	3.3
3.4	I-18830054	+59039	-27960	I-11852095	+60877	-58	I-04935013	+70159	-92	3.4
3.5	I-16360890	+58793	-27555	I-09265559	+60663	-59	I-02230890	+71111	-93	3.5
3.6	I-13864139	+58542	-27150	I-06652732	+60434	-60	I-99501760	+72111	-94	3.6
3.7	I-11340126	+58279	-26745	I-04013909	+60191	-61	I-96747884	+73167	-95	3.7
3.8	I-08789171	+58005	-26340	I-01349376	+59936	-62	I-93969517	+74283	-96	3.8
3.9	I-06211590	+57721	-25935	I-98659417	+59664	-63	I-91166913	+75463	-97	3.9
4.0	I-03607689	+57428	-25530	I-95944308	+59391	-64	I-88340319	+76711	-98	4.0



$p$	$u = 0.5$				$u = 0.6$				$u = 0.7$				$p$
	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$		
4.0	I.26934695	+51730 +41	-29481 -10		I.19104799	+53593 +38	-28321 -8		I.11328497	+55494 +33	-27166 -7		4.0
4.1	I.24633132	+81495 +44	-29096 -9		I.16694102	+83273 +40	-27966 -8		I.08808345	+55183 +36	-26841 -7		4.1
4.2	I.22302474	+81076 +46	-28719 -9		I.14255438	+62950 +42	-27619 -8		I.06261351	+54866 +38	-26523 -6		4.2
4.3	I.19943097	+80744 +47	-28352 -8		I.11789155	+52022 +45	-27280 -8		I.03687835	+54544 +41	-26211 -6		4.3
4.4	I.17555367	+80411 +49	-27993 -9		I.09295592	+52291 +48	-26948 -8		I.01088107	+54218 +43	-25907 -6		4.4
4.5	I.15139645	+80075 +51	-27643 -8		I.06775080	+81958 +48	-26624 -7		I.98462472	+53888 +45	-25608 -6		4.5
4.6	I.12696279	+49740 +53	-27309 -8		I.04227943	+51822 +50	-26307 -7		I.95811230	+53655 +47	-25318 -6		4.6
4.7	I.10225614	+49403 +54	-26966 -7		I.01654500	+51396 +51	-25997 -8		I.93134671	+53220 +50	-25030 -6		4.7
4.8	I.07727982	+49085 +56	-26639 -7		I.99055059	+50947 +53	-25694 -6		I.90433083	+52883 +51	-24749 -6		4.8
4.9	I.05203711	+48728 +57	-26320 -7		I.96429923	+50909 +55	-25397 -8		I.87706745	+52544 +53	-24475 -8		4.9
5.0	I.02653120	+48391 +58	-26008 -7		I.93779391	+50269 +57	-25107 -6		I.84955932	+52204 +54	-24206 -5		5.0
5.1	I.00076521	+48055 +59	-25703 -7		I.91103752	+49530 +58	-24823 -6		I.82180913	+51864 +55	-23942 -5		5.1
5.2	I.97474219	+47719 +61	-25404 -6		I.88403290	+49591 +59	-24546 -8		I.79381951	+51522 +56	-23696 -5		5.2
5.3	I.94846513	+47386 +62	-25112 -6		I.85678283	+49253 +61	-24272 -6		I.76559305	+51181 +59	-23431 -5		5.3
5.4	I.92193694	+47052 +62	-24827 -8		I.82929004	+48915 +62	-24006 -6		I.73713228	+50840 +59	-23184 -5		5.4
5.5	I.89516049	+46720 +64	-24548 -6		I.80155719	+48575 +63	-23745 -6		I.70843967	+50499 +62	-22940 -5		5.5
5.6	I.86813856	+46390 +64	-24274 -6		I.77358689	+48242 +64	-23489 -6		I.67951765	+50159 +62	-22702 -4		5.6
5.7	I.84087389	+46061 +65	-24007 -5		I.74538171	+47908 +65	-23238 -5		I.65036861	+49820 +64	-22468 -4		5.7
5.8	I.81336915	+45733 +65	-23746 -5		I.71694414	+47576 +65	-22993 -5		I.62099488	+49482 +65	-22240 -4		5.8
5.9	I.78562696	+45411 +66	-23488 -5		I.68827664	+47244 +67	-22752 -5		I.59139876	+49145 +66	-22016 -4		5.9
6.0	I.75764990	+45088 +67	-23237 -4		I.65938162	+46913 +68	-22517 -4		I.56158249	+48810 +67	-21784 -4		6.0
6.1	I.72944046	+44768 +68	-22991 -6		I.63026143	+46588 +68	-22286 -4		I.53154827	+48486 +68	-21578 -4		6.1
6.2	I.70100112	+44450 +69	-22750 -5		I.60091838	+46268 +69	-22059 -4		I.50129827	+48143 +69	-21366 -4		6.2
6.3	I.67233427	+44135 +69	-22514 -5		I.57135475	+45940 +69	-21837 -4		I.47083462	+47813 +70	-21168 -4		6.3
6.4	I.64344229	+43822 +70	-22282 -4		I.54157274	+45619 +70	-21619 -4		I.44015938	+47485 +71	-20953 -4		6.4
6.5	I.61432749	+43512 +70	-22065 -4		I.51157455	+45300 +71	-21405 -4		I.40927461	+47159 +71	-20753 -4		6.5
6.6	I.58499213	+43204 +70	-21833 -4		I.48136230	+44984 +71	-21108 -4		I.37818231	+46834 +72	-20556 -4		6.6
6.7	I.55543844	+42899 +71	-21615 -4		I.45093810	+44670 +72	-20909 -4		I.34688446	+46512 +72	-20362 -4		6.7
6.8	I.52566861	+42597 +71	-21401 -4		I.42030400	+44359 +72	-20788 -4		I.31538298	+46193 +73	-20172 -4		6.8
6.9	I.49568477	+42297 +71	-21191 -4		I.38946202	+44050 +73	-20590 -4		I.28367977	+45875 +73	-19986 -4		6.9
7.0	I.46548902	+42000 +71	-20985 -4		I.35841414	+43744 +73	-20395 -4		I.25177671	+45560 +74	-19803 -4		7.0
7.1	I.43508342	+41706 +72	-20783 -4		I.32716231	+43440 +73	-20204 -4		I.21967561	+45247 +74	-19623 -4		7.1
7.2	I.40446998	+41415 +72	-20585 -4		I.29570844	+43149 +73	-20017 -4		I.18737829	+44937 +75	-19446 -4		7.2
7.3	I.37365070	+41126 +72	-20390 -4		I.26405440	+42841 +74	-19833 -4		I.15488651	+44630 +75	-19272 -4		7.3
7.4	I.34262751	+40840 +72	-20199 -4		I.23220203	+42548 +74	-19652 -4		I.12220201	+44325 +75	-19101 -4		7.4
7.5	I.31140233	+40557 +72	-20012 -4		I.20015314	+42253 +74	-19474 -4		I.08932649	+44023 +76	-18933 -4		7.5
7.6	I.27997703	+40277 +72	-19828 -4		I.16790952	+41965 +74	-19299 -4		I.05626164	+43723 +76	-18768 -4		7.6
7.7	I.24835345	+39999 +72	-19647 -4		I.13547290	+41676 +74	-19128 -4		I.02300911	+43423 +76	-18606 -4		7.7
7.8	I.21653340	+39724 +72	-19469 -4		I.10284500	+41391 +74	-18959 -4		I.98957052	+43131 +76	-18448 -4		7.8
7.9	I.18451865	+39452 +72	-19296 -4		I.07002751	+41109 +74	-18793 -4		I.95594746	+42839 +77	-18290 -4		7.9
8.0	I.15231096	+39185 +72	-19123 -4		I.03702208	+40830 +74	-18631 -4		I.92214151	+42550 +77	-18135 -4		8.0
8.1	I.11991203	+38917 +72	-18955 -4		I.00383035	+40553 +74	-18470 -4		I.88815420	+42264 +77	-17983 -4		8.1
8.2	I.08732356	+38653 +72	-18789 -4		I.97045391	+40279 +74	-18318 -4		I.85398706	+41989 +77	-17834 -4		8.2
8.3	I.05454719	+38392 +72	-18628 -4		I.93689434	+40008 +74	-18168 -4		I.81964159	+41699 +77	-17687 -4		8.3
8.4	I.02158455	+38134 +72	-18467 -4		I.90315320	+39740 +74	-18006 -4		I.78511924	+41420 +77	-17642 -4		8.4
8.5	I.98843725	+37878 +71	-18309 -4		I.86923199	+39474 +74	-17856 -4		I.75042147	+41144 +78	-17490 -4		8.5
8.6	I.95510686	+37625 +71	-18168 -4		I.83513222	+39211 +74	-17709 -4		I.71554970	+40871 +76	-17260 -4		8.6
8.7	I.92159492	+37376 +71	-18002 -4		I.80085537	+38951 +74	-17564 -4		I.68050533	+40601 +76	-17122 -4		8.7
8.8	I.88790296	+37127 +71	-17853 -4		I.76640288	+38693 +74	-17421 -4		I.64528973	+40333 +76	-16986 -4		8.8
8.9	I.85403247	+36882 +71	-17708 -4		I.73177618	+38435 +73	-17280 -4		I.60990428	+40068 +76	-16853 -4		8.9
9.0	I.81998492	+36639 +71	-17561 -4		I.69697669	+38185 +73	-17142 -4		I.57435030	+39805 +75	-16721 -4		9.0
9.1	I.78576177	+36399 +71	-17416 -4		I.66200576	+37935 +73	-17006 -4		I.53862911	+39545 +75	-16591 -4		9.1
9.2	I.75136444	+36152 +70	-17278 -4		I.62686478	+37688 +73	-16872 -4		I.50274201	+39287 +75	-16464 -4		9.2
9.3	I.71679433	+35907 +70	-17140 -4		I.59155508	+37443 +73	-16740 -4		I.46669027	+39032 +75	-16338 -4		9.3
9.4	I.68205282	+35665 +70	-17004 -4		I.55607798	+37201 +72	-16610 -4		I.43047516	+38780 +75	-16214 -4		9.4
9.5	I.64714127	+35425 +70	-16870 -4		I.52043478	+36961 +72	-16482 -4		I.39409790	+38530 +76	-16092 -4		9.5
9.6	I.61206103	+35237 +69	-16738 -4		I.48462675	+36724 +72	-16358 -4		I.35755972	+38283 +76	-15972 -4		9.6
9.7	I.57681339	+35012 +69	-16609 -4		I.44865516	+36489 +72	-16232 -4		I.32086182	+38038 +75	-15853 -4		9.7
9.8	I.54139967	+34790 +69	-16481 -4		I.41252125	+36257 +72	-16110 -4		I.28400539	+37796 +75	-15737 -4		9.8
9.9	I.50582114	+34569 +68	-16356 -4		I.37622624	+36027 +72	-15990 -4		I.24699160	+37558 +74	-15621 -4		9.9
10.0	I.47007906	+34351 +68	-16231 -4		I.33977133	+35799 +71	-15871 -4		I.20982159	+37318 +74	-15508 -4		10.0

$p$	$u = 0.8$			$u = 0.9$			$u = 1.0$			$p$
	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	
4.0	1.03607689	+57428 -29	-26018 -6	2.95944308	+59391 +23	-24677 -5	2.88340319	+61376 +16	-23745 -4	4.0
4.1	1.00977770	+57328 +31	-25721 -6	2.93204323	+59104 +26	-24609 -6	2.85489980	+61106 +19	-23505 -4	4.1
4.2	2.98322130	+56920 +34	-25431 -6	2.90439729	+58808 +29	-24546 -4	2.82616136	+60836 +22	-23265 -4	4.2
4.3	2.95641058	+56593 +36	-25147 -5	2.87650788	+58506 +32	-24498 -4	2.79719024	+60536 +25	-23036 -4	4.3
4.4	2.92934840	+56187 +39	-24868 -5	2.84837760	+58196 +34	-24455 -4	2.76798876	+60238 +29	-22807 -4	4.4
4.5	2.90203753	+55805 +41	-24595 -5	2.82000897	+57889 +37	-24416 -4	2.73855921	+59934 +32	-22582 -4	4.5
4.6	2.87448071	+55355 +44	-24337 -5	2.79140448	+57589 +39	-24381 -4	2.70890384	+59622 +34	-22361 -4	4.6
4.7	2.84663063	+54924 +46	-24084 -5	2.76256658	+57294 +41	-24351 -4	2.67902487	+59305 +37	-22143 -4	4.7
4.8	2.81863990	+54570 +48	-23866 -5	2.73349766	+56994 +44	-24326 -4	2.64892446	+58982 +40	-21929 -4	4.8
4.9	2.79036110	+54332 +50	-23594 -5	2.70420008	+56671 +46	-24305 -4	2.61860477	+58655 +42	-21718 -4	4.9
5.0	2.76184677	+54194 +52	-23306 -5	2.67467616	+56355 +48	-24287 -4	2.58806789	+58324 +44	-21512 -4	5.0
5.1	2.73309938	+53955 +54	-23093 -5	2.64492816	+56056 +50	-24274 -4	2.55731590	+57989 +46	-21308 -4	5.1
5.2	2.70412136	+53711 +55	-22884 -5	2.61495831	+55763 +52	-24264 -4	2.52635083	+57662 +48	-21109 -4	5.2
5.3	2.67491509	+53469 +57	-22690 -5	2.58476882	+55483 +54	-24256 -4	2.49517467	+57312 +51	-20911 -4	5.3
5.4	2.64548292	+53232 +59	-22511 -4	2.55436182	+55210 +56	-24250 -4	2.46378941	+56959 +52	-20717 -4	5.4
5.5	2.61582714	+52999 +60	-22336 -4	2.52373943	+54955 +58	-24244 -4	2.43219698	+56626 +54	-20527 -4	5.5
5.6	2.58595000	+52769 +61	-22169 -4	2.49290374	+54718 +59	-24239 -4	2.40039928	+56291 +56	-20339 -4	5.6
5.7	2.55585371	+52542 +62	-21998 -4	2.46185677	+53485 +60	-24234 -4	2.36839819	+55954 +58	-20155 -4	5.7
5.8	2.52554044	+52319 +64	-21835 -4	2.43060055	+53258 +62	-24230 -4	2.33619554	+55617 +59	-19974 -4	5.8
5.9	2.49501233	+52101 +65	-21678 -4	2.39913702	+53036 +64	-24226 -4	2.30379315	+55280 +61	-19796 -4	5.9
6.0	2.46427146	+51888 +66	-21521 -4	2.36746814	+52819 +65	-24222 -4	2.27119281	+54942 +63	-19620 -4	6.0
6.1	2.43331987	+51679 +67	-21369 -4	2.33595980	+52606 +66	-24218 -4	2.23839627	+54594 +64	-19447 -4	6.1
6.2	2.40211596	+51474 +68	-21221 -4	2.30352187	+52400 +67	-24214 -4	2.20540525	+54247 +66	-19278 -4	6.2
6.3	2.37079262	+51272 +69	-21077 -4	2.27124819	+52199 +68	-24210 -4	2.17222146	+53891 +67	-19110 -4	6.3
6.4	2.33922087	+51074 +70	-20936 -4	2.23877657	+52000 +70	-24206 -4	2.13884656	+53535 +68	-18946 -4	6.4
6.5	2.30744626	+50880 +71	-20798 -4	2.20610879	+51811 +70	-24202 -4	2.10528220	+53180 +69	-18784 -4	6.5
6.6	2.27547067	+50690 +71	-20665 -4	2.17324659	+51628 +72	-24198 -4	2.07153001	+52813 +70	-18625 -4	6.6
6.7	2.24329594	+50504 +72	-20537 -4	2.14019168	+51450 +72	-24194 -4	2.03759156	+52447 +71	-18468 -4	6.7
6.8	2.21092388	+50322 +73	-20414 -4	2.10694577	+51278 +73	-24190 -4	2.00346845	+52081 +72	-18313 -4	6.8
6.9	2.17835627	+50144 +74	-20296 -4	2.07351051	+51111 +74	-24186 -4	1.96916219	+51715 +73	-18161 -4	6.9
7.0	2.14559487	+49971 +74	-20182 -4	2.03988753	+49949 +75	-24182 -4	1.93467433	+51350 +74	-18011 -4	7.0
7.1	2.11264138	+49802 +75	-20072 -4	2.00607845	+49792 +75	-24178 -4	1.90000635	+51116 +75	-17864 -4	7.1
7.2	2.07949751	+49638 +75	-19967 -4	1.97208484	+49640 +76	-24174 -4	1.86515973	+50978 +76	-17719 -4	7.2
7.3	2.04616492	+49479 +76	-19867 -4	1.93790826	+49492 +76	-24170 -4	1.83013593	+50840 +76	-17576 -4	7.3
7.4	2.01264523	+49324 +77	-19771 -4	1.90355025	+49349 +76	-24166 -4	1.79493636	+50716 +77	-17435 -4	7.4
7.5	1.97894006	+49172 +77	-19680 -4	1.86901231	+49211 +77	-24162 -4	1.75956244	+50597 +78	-17296 -4	7.5
7.6	1.94505099	+49024 +77	-19593 -4	1.83429592	+49078 +77	-24158 -4	1.72401556	+50483 +79	-17160 -4	7.6
7.7	1.91097957	+48880 +77	-19511 -4	1.79940255	+48950 +78	-24154 -4	1.68829708	+50374 +79	-17025 -4	7.7
7.8	1.87672734	+48739 +77	-19434 -4	1.76433364	+48828 +79	-24150 -4	1.65240835	+50270 +79	-16892 -4	7.8
7.9	1.84242958	+48601 +77	-19361 -4	1.72909060	+48711 +79	-24146 -4	1.61635069	+50171 +80	-16762 -4	7.9
8.0	1.80768643	+48467 +77	-19292 -4	1.69367482	+48600 +79	-24142 -4	1.58012542	+50076 +80	-16633 -4	8.0
8.1	1.77290069	+48337 +77	-19228 -4	1.65808768	+48494 +80	-24138 -4	1.54373381	+49985 +80	-16506 -4	8.1
8.2	1.73794001	+48211 +78	-19169 -4	1.62233052	+48393 +80	-24134 -4	1.50717715	+49898 +80	-16381 -4	8.2
8.3	1.70280581	+48089 +78	-19115 -4	1.58640469	+48297 +80	-24130 -4	1.47045667	+49815 +81	-16258 -4	8.3
8.4	1.66749948	+47971 +78	-19065 -4	1.55031149	+48206 +80	-24126 -4	1.43357362	+49736 +82	-16136 -4	8.4
8.5	1.63202239	+47857 +78	-19019 -4	1.51405222	+48120 +80	-24122 -4	1.39652920	+49660 +82	-16016 -4	8.5
8.6	1.59637588	+47747 +79	-18977 -4	1.47762814	+48039 +80	-24118 -4	1.35932462	+49587 +82	-15898 -4	8.6
8.7	1.56056129	+47640 +79	-18939 -4	1.44104052	+47963 +80	-24114 -4	1.32191610	+49517 +82	-15782 -4	8.7
8.8	1.52457992	+47537 +79	-18905 -4	1.40429059	+47892 +80	-24110 -4	1.28443968	+49449 +82	-15667 -4	8.8
8.9	1.48843306	+47437 +78	-18875 -4	1.36737956	+47826 +81	-24106 -4	1.24676163	+49383 +82	-15554 -4	8.9
9.0	1.45212197	+47339 +78	-18849 -4	1.33030864	+47764 +81	-24102 -4	1.20892804	+49317 +82	-15442 -4	9.0
9.1	1.41564791	+47243 +78	-18827 -4	1.29307901	+47706 +81	-24098 -4	1.17094003	+49252 +82	-15332 -4	9.1
9.2	1.37901211	+47149 +78	-18809 -4	1.25569183	+47652 +81	-24094 -4	1.13279870	+49187 +82	-15223 -4	9.2
9.3	1.34221579	+47057 +78	-18793 -4	1.21814827	+47601 +81	-24090 -4	1.09450514	+49123 +82	-15116 -4	9.3
9.4	1.30526013	+46967 +78	-18779 -4	1.18044944	+47552 +81	-24086 -4	1.05606042	+49059 +82	-15010 -4	9.4
9.5	1.26814632	+46878 +78	-18767 -4	1.14259648	+47506 +81	-24082 -4	1.01746559	+48996 +82	-14906 -4	9.5
9.6	1.23087551	+46790 +78	-18757 -4	1.10459047	+47463 +81	-24078 -4	0.97872171	+48934 +82	-14803 -4	9.6
9.7	1.19344886	+46703 +77	-18747 -4	1.06643252	+47423 +81	-24074 -4	0.93982980	+48873 +83	-14702 -4	9.7
9.8	1.15586749	+46617 +77	-18739 -4	1.02812368	+47384 +81	-24070 -4	0.90079087	+48813 +83	-14601 -4	9.8
9.9	1.11813252	+46532 +77	-18731 -4	0.98966503	+47346 +81	-24066 -4	0.86160592	+48754 +82	-14503 -4	9.9
10.0	1.08024504	+46448 +77	-18724 -4	0.95105759	+47310 +81	-24062 -4	0.82227596	+48696 +82	-14405 -4	10.0



p	u = 1.0				u = 1.1				u = 1.2				p
	log I'(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	log I'(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	log I'(u, p)	$\delta_u^2$	$\delta_p^2$	$\delta_u^4$	
-1.00	.00000000	0	0	0	.00000000	0	0	0	.00000000	0	0	0	-1.00
-.95	I-97474197	+421	+1049912	0	I-97432663	+415	+1024585	0	I-97391544	+410	+999849	0	-.95
-.90	I-95998306	+1445	+276063	0	I-95889911	+1421	+264740	0	I-95782937	+1397	+263793	0	-.90
-.85	I-94798478	+2955	+149322	0	I-94611899	+2604	+133255	0	I-94428123	+2752	+126759	0	-.85
-.80	I-93738672	+4525	+88189	+1	I-93467152	+4437	+78753	+1	I-93200068	+4350	+74541	+1	-.80
-.75	I-92761998	+6382	+53945	-2	I-92401158	+6235	+50806	-2	I-92046554	+6110	+47471	+2	-.75
-.70	I-91838569	+8307	+35492	-2	I-91385470	+8141	+33495	-2	I-90940511	+7976	+31564	+2	-.70
-.65	I-90950632	+10317	+24082	+1	I-90403277	+10110	+22740	+1	I-89866032	+9907	+21451	+1	-.65
-.60	I-90086777	+12355	+16337	+1	I-89443824	+12113	+15455	+1	I-88812984	+11873	+14594	+1	-.60
-.55	I-89239249	+14403	+10644	0	I-88499826	+14127	+10319	0	I-87774530	+13655	+9788	+1	-.55
-.50	I-88402505	+16438	+6896	-1	I-87566147	+16134	+6566	-1	I-86745864	+15630	+6284	0	-.50
-.45	I-87572707	+18451	+3822	-3	I-86639034	+18122	+3780	-3	I-85723482	+17791	+3672	-3	-.45
-.40	I-86746671	+20429	+1515	-5	I-85715681	+20050	+1614	-5	I-84704772	+19728	+1674	-4	-.40
-.35	I-85922150	+22366	-277	-7	I-84793942	+22001	-57	-7	I-83687736	+21631	+120	-6	-.35
-.30	I-85097352	+24264	-1698	-10	I-83872146	+23860	-1378	-9	I-82670820	+23497	-1106	-8	-.30
-.25	I-84270858	+26082	-2928	-13	I-82948972	+25712	-2439	-12	I-81652798	+25320	-2086	-11	-.25
-.20	I-83441536	+27677	-3745	-16	I-82023365	+27455	-3288	-15	I-80632690	+27099	-2881	-13	-.20
-.15	I-82608469	+29609	-4459	-19	I-81094472	+29226	-3983	-18	I-79609701	+26630	-3328	-16	-.15
-.10	I-81770913	+31277	-5102	-22	I-80161596	+30905	-4554	-21	I-78583184	+26051	-4061	-19	-.10
-.05	I-80928255	+32829	-5605	-25	I-79224166	+32629	-5028	-24	I-77552606	+25144	-4503	-22	-.05
.00	I-80079992	+34449	-6025	-28	I-78281708	+34100	-5421	-27	I-76517525	+23725	-4872	-25	.00
.0	I-80079992	+34449	-24098	-28	I-78281708	+34100	-21820	-27	I-76517525	+23725	-19428	-25	.0
.1	I-78365042	+37391	-26603	-34	I-76380199	+37081	-24056	-33	I-74432437	+26737	-21720	-32	.1
.2	I-76623489	+40111	-25399	-40	I-74454635	+39550	-25772	-39	I-72325630	+29545	-23350	-38	.2
.3	I-74853537	+42617	-29648	-46	I-72503298	+42414	-26984	-45	I-70195473	+42166	-24516	-44	.3
.4	I-73063936	+44917	-30509	-51	I-70524977	+44781	-27898	-51	I-68040799	+44594	-26352	-50	.4
.5	I-71223826	+47024	-31057	-58	I-68518820	+46961	-28428	-56	I-65860774	+46842	-26946	-55	.5
.6	I-69362630	+48949	-31455	-60	I-66484234	+48985	-28824	-59	I-63654802	+48918	-26300	-58	.6
.7	I-67469978	+50793	-31863	-63	I-64420825	+50793	-29072	-64	I-61422471	+50830	-26637	-64	.7
.8	I-65545661	+52296	-31755	-68	I-62328343	+52476	-29208	-67	I-59163502	+52689	-26809	-67	.8
.9	I-63589590	+53741	-31784	-71	I-60206654	+54006	-29239	-69	I-56877724	+54202	-26502	-70	.9
1.0	I-61601764	+55046	-31862	-69	I-58055705	+55397	-29241	-71	I-54565044	+55678	-26030	-73	1.0
1.1	I-59582257	+56221	-31565	-70	I-55875516	+56960	-29171	-72	I-52225434	+57025	-26095	-75	1.1
1.2	I-57531193	+57277	-31388	-70	I-53666155	+57801	-29060	-73	I-49858917	+58052	-26846	-78	1.2
1.3	I-55448744	+58220	-31183	-69	I-51427734	+58639	-28915	-73	I-47465553	+58966	-26762	-80	1.3
1.4	I-53335112	+59008	-30953	-68	I-49160398	+59754	-28745	-75	I-45045438	+60374	-26638	-82	1.4
1.5	I-51190524	+59805	-30707	-67	I-46864317	+60879	-28555	-76	I-42598689	+61282	-26493	-85	1.5
1.6	I-49015230	+60460	-30443	-65	I-44539681	+61914	-28346	-77	I-40125447	+62098	-26337	-88	1.6
1.7	I-46809493	+61032	-30168	-63	I-42186698	+61905	-28129	-79	I-37625867	+62828	-26168	-91	1.7
1.8	I-44573588	+61529	-29984	-61	I-39805586	+62336	-27999	-80	I-35100120	+63477	-25988	-94	1.8
1.9	I-42307799	+61955	-29694	-59	I-37396574	+63035	-27863	-81	I-32548384	+64050	-25800	-97	1.9
2.0	I-40012416	+62315	-29300	-55	I-34959900	+63463	-27421	-82	I-29970849	+64559	-25605	-100	2.0
2.1	I-37687733	+62616	-28903	-52	I-32495805	+63833	-27174	-83	I-27367709	+64991	-25404	-103	2.1
2.2	I-35334047	+62860	-28499	-49	I-30004535	+64142	-26923	-84	I-24739164	+65367	-25201	-106	2.2
2.3	I-32951656	+63053	-28106	-46	I-27486340	+64397	-26675	-85	I-22085419	+65695	-24994	-109	2.3
2.4	I-30540859	+63199	-28109	-42	I-24941469	+64601	-26423	-86	I-19406681	+65953	-24785	-112	2.4
2.5	I-28101953	+63300	-27819	-38	I-22370176	+64758	-26172	-87	I-16703157	+66170	-24574	-115	2.5
2.6	I-25635235	+63381	-27518	-35	I-19772711	+64873	-25921	-88	I-13975059	+66342	-24363	-118	2.6
2.7	I-23140999	+63355	-27225	-31	I-17149325	+64947	-25670	-89	I-11222599	+66470	-24153	-121	2.7
2.8	I-20619537	+63374	-26936	-27	I-14500269	+64984	-25422	-90	I-08445985	+66560	-23942	-124	2.8
2.9	I-18071140	+63332	-26650	-23	I-11825792	+64987	-25174	-91	I-05645431	+66611	-23731	-127	2.9
3.0	I-15496092	+63280	-26367	-19	I-09126140	+64956	-24929	-92	I-02821146	+66629	-23521	-130	3.0
3.1	I-12894678	+63162	-26087	-15	I-06401559	+64900	-24687	-93	I-99973340	+66614	-23313	-133	3.1
3.2	I-10267177	+63038	-25813	-11	I-03652292	+64815	-24446	-94	I-97102221	+66571	-23106	-136	3.2
3.3	I-07613865	+62892	-25539	-8	I-00878578	+64704	-24206	-95	I-94207996	+66500	-22900	-139	3.3
3.4	I-04935013	+62728	-25271	-4	I-98080657	+64570	-23974	-96	I-91290871	+66404	-22687	-142	3.4
3.5	I-02230890	+62540	-25007	-1	I-95258761	+64416	-23741	-97	I-88351048	+66283	-22495	-145	3.5
3.6	I-99501760	+62396	-24746	+3	I-92413124	+64242	-23512	-98	I-85388730	+66142	-22295	-148	3.6
3.7	I-96747884	+62117	-24490	+8	I-89543975	+64049	-23286	-99	I-82404116	+65980	-22097	-151	3.7
3.8	I-93969517	+61888	-24238	+10	I-86651541	+63840	-23062	-100	I-79397406	+65800	-21902	-154	3.8
3.9	I-91166913	+61636	-23989	+18	I-83736045	+63616	-22842	-101	I-76368793	+65602	-21706	-157	3.9
4.0	I-88340319	+61376	-23745	+16	I-80797706	+63378	-22635	-102	I-73318472	+65389	-21517	-160	4.0



p	u = 1.3			u = 1.4			u = 1.5			p
	log I'(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	log I'(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	log I'(u, p)	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	
-1.00	.00000000	0	0	.00000000	0	0	.00000000	0	0	-1.00
-.95	I.97350835	+406	+973690	I.97310530	+399	+952098	I.97270625	+394	+929057	-.95
-.90	I.95677360	+1874	+243214	I.95573158	+1351	+232990	I.95470307	+1329	+229116	-.90
-.85	I.94247099	+2700	+120496	I.94068776	+2050	+114700	I.93893104	+2001	+108631	-.85
-.80	I.92937334	+4264	+70490	I.92678864	+4160	+66393	I.92424574	+4097	+62892	-.80
-.75	I.91698059	+5986	+44743	I.91355550	+6864	+42120	I.91018906	+6744	+39596	-.75
-.70	I.90503527	+7813	+29698	I.90074356	+7631	+27998	I.89652836	+7493	+26163	-.70
-.65	I.89338693	+9704	+20136	I.88821058	+9605	+18923	I.88312929	+9807	+17723	-.65
-.60	I.88194017	+11634	+13748	I.87586683	+11397	+12915	I.86990747	+11161	+12102	-.60
-.55	I.87063087	+13660	+9253	I.86365223	+13307	+8720	I.85680667	+13036	+8185	-.55
-.50	I.85941410	+15326	+6998	I.85152483	+16221	+6879	I.84378775	+14917	+6383	-.50
-.45	I.84825722	+17459	+5327	I.83945422	+17129	+5370	I.83082246	+17691	+5268	-.45
-.40	I.83713591	+19372	+4116	I.82741782	+19019	+4337	I.81788985	+18602	+4674	-.40
-.35	I.82603161	+21266	+2600	I.81539842	+20875	+3366	I.80497398	+20491	+443	-.35
-.30	I.81492991	+23105	+1229	I.80338268	+22708	+264	I.79206254	+22304	+259	-.30
-.25	I.80381945	+24915	-1786	I.79136010	+24606	-1527	I.77914581	+24087	-1302	-.25
-.20	I.79269113	+26689	-2521	I.77932225	+26265	-2205	I.76621606	+26936	-1922	-.20
-.15	I.78153760	+28417	+133	I.76726235	+27969	-11	I.75326699	+27649	+120	-.15
-.10	I.77035284	+30099	-3183	I.75517482	+29669	-13	I.74029350	+29224	-2867	-.10
-.05	I.75913190	+31753	+64	I.74305509	+31307	+74	I.72729134	+30639	+74	-.05
-.00	I.74787067	+33325	-4373	I.73089933	+32901	-3921	I.71425700	+32455	-3784	-.00
.0	I.74787067	+33325	-24	I.73089933	+32901	+49	I.71425700	+32455	-14095	.0
.1	I.72521412	+36382	-17437	I.70646749	+35956	+828	I.68808042	+35223	+757	.1
.2	I.70236175	+39210	-30	I.68185929	+38635	-17636	I.66174519	+36426	-16866	.2
.3	I.67929813	+41674	-36	I.65706027	+41639	+636	I.63523781	+38426	+806	.3
.4	I.65601215	+44357	-21238	I.63205988	+44073	-1091	I.60854834	+43741	-17214	.4
.5	I.63249569	+46668	+485	I.60685033	+46440	-339	I.58166937	+46160	+354	.5
.6	I.60874288	+48813	-23636	I.58142586	+48648	-21492	I.55459532	+48427	-19308	.6
.7	I.58474946	+50739	-62	I.55578221	+50704	+162	I.52732199	+50546	+138	.7
.8	I.56051249	+52634	-21917	I.52991631	+52613	-116	I.49984625	+52623	-19928	.8
.9	I.53602995	+54323	+66	I.50382595	+54382	-2226	I.47216576	+54395	+106	.9
1.0	I.51130060	+55986	-24747	I.47750962	+56020	-2192	I.44427885	+56079	-20761	1.0
1.1	I.48632378	+57317	-74	I.45096639	+57332	+44	I.41618432	+57670	+41	1.1
1.2	I.46109931	+58626	-24765	I.42419573	+58925	-22742	I.38788140	+59143	-20633	1.2
1.3	I.43562739	+59928	-76	I.39719749	+60206	-22758	I.35936966	+60505	-20883	1.3
1.4	I.40990851	+60917	-31	I.36997181	+61380	+29	I.33064892	+61761	+27	1.4
1.5	I.38394343	+61909	-24605	I.34251906	+62455	-22707	I.30171924	+62919	-20900	1.5
1.6	I.35773310	+62807	-80	I.31483981	+63435	-22650	I.27258087	+63979	+16	1.6
1.7	I.33127864	+63617	-24113	I.28693478	+64328	-22577	I.24323419	+64952	-20830	1.7
1.8	I.30458130	+64344	-84	I.25880485	+65134	-22491	I.21367974	+65839	+11	1.8
1.9	I.27764244	+64993	-22893	I.23045099	+65868	-22393	I.18391815	+66684	-20713	1.9
2.0	I.25046351	+65572	+9	I.20187426	+66516	-22296	I.15395017	+67539	+8	2.0
2.1	I.22304604	+66092	-22172	I.17307582	+67131	-22172	I.12377660	+68404	-20556	2.1
2.2	I.19539161	+66599	-87	I.14405687	+67620	-22050	I.09339833	+69279	+7	2.2
2.3	I.16750186	+66918	+6	I.11481869	+68076	+6	I.06281630	+70164	+6	2.3
2.4	I.13937845	+67166	-21793	I.08536258	+68478	-21793	I.03203148	+71058	-20276	2.4
2.5	I.11102309	+67328	-21658	I.05568989	+68824	-21658	I.00104493	+71958	-30174	2.5
2.6	I.08243750	+67409	-82	I.02580200	+69119	-21620	I.96985769	+72863	+3	2.6
2.7	I.05362342	+67406	-20949	I.99570032	+69366	-20949	I.93847088	+73772	-19958	2.7
2.8	I.02458261	+67328	-21237	I.96538626	+69569	-21237	I.90688561	+74683	-18646	2.8
2.9	I.99531682	+67166	-21094	I.93486127	+69739	-21094	I.87510302	+75597	-17331	2.9
3.0	I.96582781	+66918	-20949	I.90412679	+69852	-20949	I.84312428	+76516	-16018	3.0
3.1	I.93611736	+66599	-20803	I.87318428	+69933	-20803	I.81095057	+77440	-14798	3.1
3.2	I.90618721	+66199	-20667	I.84203520	+70000	-20667	I.77858307	+78369	-13579	3.2
3.3	I.87603914	+65720	-20510	I.81068102	+70053	-20510	I.74602298	+79303	-12361	3.3
3.4	I.84567488	+65166	-20364	I.77912321	+69979	-20364	I.71327150	+80242	-11143	3.4
3.5	I.81509618	+64533	-20217	I.74736322	+69853	-20217	I.68032985	+81186	-9925	3.5
3.6	I.78430477	+63828	-20070	I.71540253	+69679	-20070	I.64719923	+82136	-8707	3.6
3.7	I.75330238	+63000	-19925	I.68324260	+69458	-19925	I.61388087	+83091	-7490	3.7
3.8	I.72209070	+62066	-19779	I.65088488	+69192	-19779	I.58037598	+84051	-6273	3.8
3.9	I.69067144	+61000	-19634	I.61833081	+68882	-19634	I.54668577	+85016	-5056	3.9
4.0	I.65904627	+59800	-19490	I.58558183	+68528	-19490	I.51281147	+86086	-3840	4.0



$p$	$u = 1.0$				$u = 1.1$				$u = 1.2$			
	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$p$	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$p$	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^2$ $\delta_p^4$	$p$
4.0	2.88340319	+61876 +16	-23745 -4	4.0	2.80797706	+63378 +9	-22025 -4	4.0	2.73318472	+85889 +1	-21517 -4	4.0
4.1	2.85489980	+61106 +19	-23505 -4	4.1	2.77836743	+63127 +13	-22411 -4	4.1	2.70246634	+86162 +5	-21329 -4	4.1
4.2	2.82616136	+60898 +22	-23268 -4	4.2	2.74853369	+62865 +17	-22200 -4	4.2	2.67153467	+86491 +7	-21141 -4	4.2
4.3	2.79719024	+60686 +25	-23038 -4	4.3	2.71847795	+62592 +19	-21991 -4	4.3	2.64039159	+86895 +11	-20967 -4	4.3
4.4	2.76798876	+60488 +29	-22807 -4	4.4	2.68820230	+62310 +22	-21787 -4	4.4	2.60903894	+87403 +14	-20773 -4	4.4
4.5	2.73855921	+60294 +32	-22582 -4	4.5	2.65770879	+62019 +24	-21680 -4	4.5	2.57747855	+87919 +19	-20595 -4	4.5
4.6	2.70890384	+60106 +34	-22361 -4	4.6	2.62699942	+61719 +28	-21386 -4	4.6	2.54571219	+88444 +21	-20418 -4	4.6
4.7	2.67902487	+59935 +37	-22143 -4	4.7	2.59607620	+61413 +31	-21190 -4	4.7	2.51374167	+88985 +24	-20243 -4	4.7
4.8	2.64892446	+59782 +40	-21929 -4	4.8	2.56494109	+61100 +33	-20996 -4	4.8	2.48156871	+89531 +28	-20070 -4	4.8
4.9	2.61860477	+59655 +42	-21718 -4	4.9	2.53359601	+60781 +36	-20806 -4	4.9	2.44919506	+90083 +30	-19899 -4	4.9
5.0	2.58806789	+59524 +44	-21612 -4	5.0	2.50204287	+60457 +39	-20619 -4	5.0	2.41662242	+90642 +33	-19731 -4	5.0
5.1	2.55731590	+59398 +46	-21508 -4	5.1	2.47028353	+60129 +41	-20433 -4	5.1	2.38385246	+91207 +36	-19566 -4	5.1
5.2	2.52635083	+59276 +48	-21408 -4	5.2	2.43831986	+59797 +44	-20263 -4	5.2	2.35088685	+91785 +38	-19401 -4	5.2
5.3	2.49517467	+59159 +51	-20911 -4	5.3	2.40615365	+59461 +45	-20074 -4	5.3	2.31772724	+92367 +41	-19240 -4	5.3
5.4	2.46378941	+59046 +52	-20717 -4	5.4	2.37378671	+59122 +45	-19898 -4	5.4	2.28437522	+92953 +43	-19080 -4	5.4
5.5	2.43219698	+58936 +54	-20627 -4	5.5	2.34122079	+58780 +50	-19724 -4	5.5	2.25083240	+93543 +46	-18923 -4	5.5
5.6	2.40039928	+58828 +56	-20339 -4	5.6	2.30845763	+58437 +52	-19553 -4	5.6	2.21710034	+94137 +48	-18768 -4	5.6
5.7	2.36839819	+58724 +58	-20150 -4	5.7	2.27549894	+58092 +54	-19384 -4	5.7	2.18318061	+94735 +50	-18616 -4	5.7
5.8	2.33619554	+58624 +59	-19974 -4	5.8	2.24234640	+57740 +55	-19218 -4	5.8	2.14907471	+95337 +52	-18466 -4	5.8
5.9	2.30379315	+58528 +61	-19798 -4	5.9	2.20900168	+57396 +58	-19055 -4	5.9	2.11478417	+95943 +54	-18316 -4	5.9
6.0	2.27119281	+58436 +63	-19620 -4	6.0	2.17546641	+57047 +60	-18894 -4	6.0	2.08031047	+96553 +56	-18169 -4	6.0
6.1	2.23839627	+58348 +64	-19447 -4	6.1	2.14174218	+56698 +62	-18730 -4	6.1	2.04565508	+97167 +58	-18022 -4	6.1
6.2	2.20540525	+58264 +66	-19278 -4	6.2	2.10783061	+56348 +63	-18580 -4	6.2	2.01081944	+97785 +60	-17882 -4	6.2
6.3	2.17222146	+58184 +67	-19110 -4	6.3	2.07373323	+55998 +65	-18428 -4	6.3	1.97580498	+98407 +62	-17741 -4	6.3
6.4	2.13884656	+58108 +68	-18946 -4	6.4	2.03945159	+55648 +68	-18274 -4	6.4	1.94061311	+99033 +63	-17602 -4	6.4
6.5	2.10528220	+58036 +69	-18784 -4	6.5	2.00498721	+55299 +67	-18125 -4	6.5	1.90524521	+99663 +65	-17466 -4	6.5
6.6	2.07153001	+57968 +70	-18625 -4	6.6	1.97034158	+54951 +69	-17978 -4	6.6	1.86970266	+100297 +66	-17330 -4	6.6
6.7	2.03759156	+57904 +71	-18468 -4	6.7	1.93551617	+54603 +70	-17833 -4	6.7	1.83398680	+100935 +68	-17197 -4	6.7
6.8	2.00346845	+57844 +72	-18313 -4	6.8	1.90051243	+54256 +71	-17689 -4	6.8	1.79809897	+101577 +69	-17066 -4	6.8
6.9	1.96916219	+57788 +73	-18161 -4	6.9	1.86533179	+53910 +72	-17549 -4	6.9	1.76204048	+102223 +70	-16936 -4	6.9
7.0	1.93467433	+57736 +74	-18011 -4	7.0	1.82997566	+53565 +73	-17411 -4	7.0	1.72581263	+102873 +71	-16808 -4	7.0
7.1	1.90006635	+57688 +75	-17864 -4	7.1	1.79444542	+53222 +74	-17274 -4	7.1	1.68941670	+103527 +72	-16682 -4	7.1
7.2	1.86515973	+57644 +76	-17719 -4	7.2	1.75874244	+52880 +75	-17139 -4	7.2	1.65285394	+104185 +74	-16558 -4	7.2
7.3	1.83013593	+57604 +76	-17578 -4	7.3	1.72286807	+52539 +77	-17007 -4	7.3	1.61612560	+104847 +74	-16435 -4	7.3
7.4	1.79493636	+57568 +77	-17435 -4	7.4	1.68682363	+52201 +77	-16875 -4	7.4	1.57923292	+105513 +76	-16314 -4	7.4
7.5	1.75956244	+57536 +78	-17290 -4	7.5	1.65061045	+51864 +77	-16746 -4	7.5	1.54217709	+106183 +77	-16194 -4	7.5
7.6	1.72401556	+57508 +79	-17180 -4	7.6	1.61422980	+51529 +78	-16619 -4	7.6	1.50495933	+106857 +78	-16078 -4	7.6
7.7	1.68829708	+57484 +79	-17025 -4	7.7	1.57768296	+51195 +79	-16493 -4	7.7	1.46758080	+107535 +78	-15960 -4	7.7
7.8	1.65240835	+57464 +79	-16892 -4	7.8	1.54097119	+50864 +80	-16370 -4	7.8	1.43004267	+108217 +79	-15845 -4	7.8
7.9	1.61635069	+57448 +80	-16762 -4	7.9	1.50409571	+50535 +80	-16248 -4	7.9	1.39234609	+108903 +80	-15732 -4	7.9
8.0	1.58012542	+57436 +80	-16633 -4	8.0	1.46705777	+50208 +81	-16127 -4	8.0	1.35449219	+109593 +81	-15620 -4	8.0
8.1	1.54373381	+57428 +80	-16508 -4	8.1	1.42985854	+49883 +81	-16009 -4	8.1	1.31648210	+110287 +81	-15509 -4	8.1
8.2	1.50717715	+57424 +80	-16381 -4	8.2	1.39249923	+49561 +81	-15892 -4	8.2	1.27831692	+110985 +82	-15400 -4	8.2
8.3	1.47045667	+57424 +81	-16258 -4	8.3	1.35498100	+49241 +81	-15776 -4	8.3	1.23999773	+111687 +82	-15293 -4	8.3
8.4	1.43357362	+57428 +82	-16138 -4	8.4	1.31730501	+48923 +82	-15662 -4	8.4	1.20152562	+112393 +83	-15188 -4	8.4
8.5	1.39652920	+57436 +82	-16016 -4	8.5	1.27947239	+48607 +83	-15550 -4	8.5	1.16290164	+113103 +84	-15082 -4	8.5
8.6	1.35932462	+57448 +82	-15898 -4	8.6	1.24148427	+48293 +83	-15440 -4	8.6	1.12412685	+113817 +84	-14978 -4	8.6
8.7	1.32196106	+57464 +83	-15782 -4	8.7	1.20334175	+47982 +83	-15330 -4	8.7	1.08520227	+114535 +85	-14876 -4	8.7
8.8	1.28443968	+57484 +83	-15667 -4	8.8	1.16504594	+47674 +83	-15222 -4	8.8	1.04612894	+115257 +85	-14776 -4	8.8
8.9	1.24676163	+57508 +82	-15554 -4	8.9	1.12659791	+47368 +84	-15116 -4	8.9	1.00690786	+115983 +86	-14675 -4	8.9
9.0	1.20892804	+57536 +82	-15442 -4	9.0	1.08799871	+47064 +84	-15011 -4	9.0	0.96754003	+116713 +86	-14577 -4	9.0
9.1	1.17094003	+57568 +82	-15332 -4	9.1	1.04924941	+46763 +84	-14907 -4	9.1	0.92802642	+117447 +87	-14480 -4	9.1
9.2	1.13279870	+57604 +82	-15223 -4	9.2	1.01035105	+46464 +85	-14805 -4	9.2	0.88836803	+118185 +87	-14384 -4	9.2
9.3	1.09450514	+57644 +82	-15116 -4	9.3	0.97130463	+46167 +85	-14704 -4	9.3	0.84856579	+118927 +88	-14289 -4	9.3
9.4	1.05606042	+57688 +82	-15010 -4	9.4	0.93211118	+45873 +85	-14604 -4	9.4	0.80862067	+119683 +87	-14195 -4	9.4
9.5	1.01746559	+57736 +82	-14906 -4	9.5	0.89277169	+45582 +85	-14506 -4	9.5	0.76853360	+120453 +87	-14103 -4	9.5
9.6	0.97872171	+57788 +82	-14803 -4	9.6	0.85328714	+45293 +85	-14409 -4	9.6	0.72830549	+121237 +87	-14012 -4	9.6
9.7	0.93982980	+57844 +83	-14702 -4	9.7	0.81365850	+45007 +85	-14312 -4	9.7	0.68793728	+122035 +87	-13921 -4	9.7
9.8	0.90079087	+57904 +83	-14601 -4	9.8	0.77388674	+44723 +85	-14218 -4	9.8	0.64742985	+122847 +87	-13832 -4	9.8
9.9	0.86160592	+57968 +82	-14503 -4	9.9	0.73397281	+44441 +85	-14124 -4	9.9	0.60678410	+123673 +87	-13744 -4	9.9
10.0	0.82227596	+58036 +82	-14405 -4	10.0	0.69391763	+44162 +85	-14032 -4	10.0	0.56600091	+124513 +87	-13657 -4	10.0

$p$	$u = 1.3$			$u = 1.4$			$u = 1.5$			$p$
	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^3$ $\delta_p^4$	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^3$ $\delta_p^4$	$\log I'(u, p)$	$\delta_u^2$ $\delta_u^4$	$\delta_p^3$ $\delta_p^4$	
4.0	2.65904627	+87409 -7	-20424	2.58558183	+69407 -16	-19847	2.51281147	+71395 -26	-18289	4.0
4.1	2.62721686	+87200 -4	-20239	2.55263939	+69236 -13	-19905	2.47875427	+71256 -23	-18168	4.1
4.2	2.59518486	+86984 +1	-30096	2.51950489	+69048 -9	-19063	2.44451540	+71103 -19	-16045	4.2
4.3	2.56295191	+86784 +4	-19934	2.48617976	+68844 -5	-18923	2.41009606	+70929 -15	-17928	4.3
4.4	2.53051961	+86511 +7	-19774	2.45266539	+68626 -2	-18764	2.37549744	+70740 -11	-17808	4.4
4.5	2.49788959	+86336 +10	-19615	2.41896319	+68394 +2	-18646	2.34072073	+70534 -8	-17690	4.5
4.6	2.46506341	+86150 +14	-19458	2.38507452	+68150 +5	-19509	2.30576713	+70315 +4	-17671	4.6
4.7	2.43204264	+85974 +17	-19303	2.35100076	+87894 +9	-18373	2.27063782	+70083 0	-17454	4.7
4.8	2.39882884	+85429 +20	-19130	2.31674326	+87629 +12	-18239	2.23533396	+69838 +3	-17337	4.8
4.9	2.36542354	+85135 +24	-18996	2.28230338	+87351 +16	-18106	2.19985673	+69592 +7	-17223	4.9
5.0	2.33182826	+84834 +28	-18849	2.24768244	+87066 +18	-17973	2.16420729	+69315 +10	-17106	5.0
5.1	2.29804448	+84526 +32	-18701	2.21288177	+86772 +21	-17843	2.12838677	+69039 +13	-16992	5.1
5.2	2.26407370	+84212 +36	-18554	2.17790267	+86471 +25	-17713	2.09239634	+68754 +17	-16873	5.2
5.3	2.22991738	+83892 +40	-18410	2.14274644	+86162 +28	-17585	2.05623712	+68460 +20	-16766	5.3
5.4	2.19557696	+83565 +45	-18267	2.10741436	+85847 +30	-17459	2.01991023	+68159 +23	-16655	5.4
5.5	2.16105386	+83236 +40	-18126	2.07190769	+85527 +33	-17332	1.98341679	+67831 +26	-16544	5.5
5.6	2.12634951	+82909 +45	-17986	2.03622771	+85202 +36	-17206	1.94675791	+67537 +29	-16434	5.6
5.7	2.09146530	+82585 +44	-17849	2.00037564	+84871 +39	-17085	1.90993469	+67216 +32	-16328	5.7
5.8	2.05640260	+82224 +47	-17713	1.96435272	+84537 +41	-16963	1.87294821	+66891 +35	-16218	5.8
5.9	2.02116277	+81859 +49	-17578	1.92816017	+84198 +44	-16843	1.83579956	+66561 +37	-16111	5.9
6.0	1.98574717	+81534 +52	-17446	1.89179920	+83857 +46	-16724	1.79848980	+66226 +40	-16005	6.0
6.1	1.95015710	+81185 +54	-17314	1.85527098	+83513 +49	-16606	1.76101998	+65888 +42	-15900	6.1
6.2	1.91439390	+80836 +56	-17185	1.81857671	+83165 +51	-16489	1.72339117	+65548 +45	-15796	6.2
6.3	1.87845884	+80485 +57	-17057	1.78171754	+82816 +53	-16374	1.68560441	+65201 +47	-15693	6.3
6.4	1.84235321	+80132 +59	-16931	1.74469464	+82465 +56	-16260	1.64766071	+64853 +49	-15591	6.4
6.5	1.80607828	+89779 +61	-16806	1.70750914	+82113 +58	-16147	1.60956111	+64503 +52	-15489	6.5
6.6	1.76963529	+89425 +63	-16683	1.67016216	+81758 +59	-16036	1.57130662	+64151 +54	-15389	6.6
6.7	1.73302547	+89071 +65	-16561	1.63265483	+81403 +61	-15925	1.53289823	+63797 +56	-15290	6.7
6.8	1.69625003	+88716 +67	-16441	1.59498825	+81047 +63	-15816	1.49433695	+63441 +58	-15192	6.8
6.9	1.65931019	+88359 +68	-16322	1.55716351	+80691 +64	-15705	1.45562374	+63086 +60	-15094	6.9
7.0	1.62220712	+88006 +70	-16206	1.51918168	+80335 +66	-15602	1.41675959	+62737 +62	-14998	7.0
7.1	1.58494199	+87655 +71	-16090	1.48104384	+80078 +67	-15498	1.37774546	+62389 +64	-14903	7.1
7.2	1.54751598	+87302 +72	-15975	1.44275103	+80022 +68	-15392	1.33858231	+62011 +66	-14808	7.2
7.3	1.50993021	+86950 +73	-15862	1.40430431	+80065 +71	-15289	1.29927107	+61622 +67	-14715	7.3
7.4	1.47218581	+86599 +74	-15751	1.36570470	+80010 +72	-15187	1.25981268	+61203 +69	-14622	7.4
7.5	1.43428391	+86249 +75	-15641	1.32695322	+80054 +74	-15086	1.22020807	+60934 +71	-14531	7.5
7.6	1.39622560	+85900 +76	-15532	1.28805088	+80000 +75	-14986	1.18045815	+60657 +72	-14440	7.6
7.7	1.35801197	+85552 +77	-15424	1.24899867	+80047 +77	-14886	1.14056384	+60218 +73	-14350	7.7
7.8	1.31964410	+85206 +79	-15318	1.20979759	+80095 +77	-14790	1.10052602	+59860 +75	-14261	7.8
7.9	1.28112304	+84861 +80	-15214	1.17044861	+80143 +78	-14694	1.06034560	+59504 +76	-14173	7.9
8.0	1.24244985	+84518 +80	-15110	1.13095268	+80193 +79	-14599	1.02002345	+60148 +77	-14086	8.0
8.1	1.20362555	+84176 +82	-15008	1.09131077	+80245 +80	-14504	0.979756043	+59793 +78	-14000	8.1
8.2	1.16465118	+83837 +83	-14907	1.05152382	+80299 +81	-14411	0.93895743	+59449 +80	-13914	8.2
8.3	1.12552775	+83499 +83	-14807	1.01159275	+80352 +82	-14319	0.89821527	+59097 +81	-13830	8.3
8.4	1.08625624	+83163 +83	-14708	0.97151849	+80408 +83	-14228	0.85733482	+58736 +82	-13748	8.4
8.5	1.04683765	+82829 +84	-14611	0.93130195	+80466 +84	-14138	0.81631691	+58377 +83	-13663	8.5
8.6	1.00727295	+82497 +84	-14514	0.89094403	+80526 +85	-14049	0.77516237	+58018 +83	-13581	8.6
8.7	0.96756311	+82167 +85	-14418	0.85044563	+80587 +85	-13961	0.73387201	+57662 +84	-13500	8.7
8.8	0.92770908	+81839 +86	-14325	0.80980761	+80650 +86	-13874	0.69244665	+57307 +85	-13420	8.8
8.9	0.88771179	+81514 +86	-14232	0.76903087	+80715 +87	-13787	0.65088709	+56954 +85	-13341	8.9
9.0	0.84757218	+81189 +86	-14141	0.72811624	+80783 +87	-13702	0.60919413	+56603 +86	-13263	9.0
9.1	0.80729117	+80869 +87	-14050	0.68706460	+80853 +88	-13618	0.56736855	+56253 +87	-13184	9.1
9.2	0.76686965	+80550 +87	-13960	0.64587677	+80924 +88	-13535	0.52541113	+55906 +87	-13107	9.2
9.3	0.72630853	+80233 +88	-13872	0.60455360	+80997 +89	-13469	0.48332265	+55559 +88	-13031	9.3
9.4	0.68560870	+80019 +88	-13784	0.56309591	+81073 +89	-13371	0.44110386	+55216 +89	-12955	9.4
9.5	0.64477102	+80007 +88	-13698	0.52150452	+81151 +89	-13280	0.39875552	+54874 +89	-12880	9.5
9.6	0.60379637	+80000 +88	-13613	0.47978022	+81231 +89	-13210	0.35627838	+54535 +91	-12806	9.6
9.7	0.56268560	+80000 +88	-13527	0.43792382	+81314 +89	-13131	0.31367318	+54201 +92	-12733	9.7
9.8	0.52143956	+80000 +88	-13444	0.39593612	+81399 +89	-13053	0.27094066	+53869 +93	-12660	9.8
9.9	0.48005908	+80000 +88	-13361	0.35381788	+81485 +90	-12976	0.22808153	+53541 +93	-12589	9.9
10.0	0.43854499	+80000 +88	-13279	0.31156988	+81575 +91	-12899	0.18509652	+53218 +93	-12517	10.0





TABLE IV  
CONSTANTS OF THE SKEW-CURVE  $y = y_0 x^p e^{-x}$

$$\frac{1}{\sqrt{2\pi}} = \cdot 398,942,2804$$

$$\log \frac{1}{\sqrt{2\pi}} = \bar{1}\cdot 600,910,0658$$



$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$x = \frac{p^p e^{-p} \sqrt{p+1}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
-1.00	0.0000000	$\infty$	$-\infty$	0.0000000	$\infty$	$\infty$	-1.00
- .95	.2236068	4.4721359	-4.2485292	.0311788	80.0000	123.0000	- .95
- .90	.3162278	3.1622777	-2.8460499	.0898889	40.0000	63.0000	- .90
- .85	.3872983	2.5819889	-2.1946906	.1672555	26.6667	43.0000	- .85
- .80	.4472136	2.2360680	-1.7888544	.2591708	20.0000	33.0000	- .80
- .75	.5000000	2.0000000	-1.5000000	.3622545	16.0000	27.0000	- .75
- .70	.5477226	1.8257419	-1.2780193	.4732593	13.3333	23.0000	- .70
- .65	.5916079	1.6903085	-1.0987005	.5889091	11.4286	20.1429	- .65
- .60	.6324555	1.5811388	-.9486833	.7058674	10.0000	18.0000	- .60
- .55	.6708203	1.4907120	-.8198916	.8207550	8.8889	16.3333	- .55
- .50	.7071068	1.4142136	-.7071068	.9301914	8.0000	15.0000	- .50
- .45	.7416198	1.3483997	-.6067799	1.0308453	7.2727	13.9091	- .45
- .40	.7745967	1.2909945	-.5163978	1.1194860	6.6667	13.0000	- .40
- .35	.8062257	1.2403473	-.4341216	1.1930274	6.1538	12.2308	- .35
- .30	.8366600	1.1952286	-.3585686	1.2485553	5.7143	11.5714	- .30
- .25	.8660254	1.1547005	-.2886751	1.2833215	5.3333	11.0000	- .25
- .20	.8944272	1.1180340	-.2236068	1.2946704	5.0000	10.5000	- .20
- .15	.9219544	1.0846523	-.1626978	1.2798123	4.7059	10.0588	- .15
- .10	.9486833	1.0540926	-.1054093	1.2351618	4.4444	9.6667	- .10
- .05	.9746794	1.0259784	-.0512989	1.1539273	4.2105	9.3158	- .05
0.0	1.0000000	1.0000000	0.0000000	1.0000000	4.0000	9.0000	0.0
0.1	1.0488088	.9534626	.0953462	.7923667	3.6364	8.4545	0.1
0.2	1.0954451	.9128709	.1825742	.7079706	3.3333	8.0000	0.2
0.3	1.1401754	.8770580	.2631174	.6558423	3.0769	7.6154	0.3
0.4	1.1832160	.8451543	.3380617	.6196086	2.8571	7.2857	0.4
0.5	1.2247449	.8164966	.4082483	.5927048	2.6667	7.0000	0.5
0.6	1.2649111	.7905694	.4743417	.5718367	2.5000	6.7500	0.6
0.7	1.3038405	.7669650	.5368755	.5551313	2.3529	6.5294	0.7
0.8	1.3416408	.7453560	.5962848	.5414321	2.2222	6.3333	0.8
0.9	1.3784049	.7254763	.6529286	.5299815	2.1053	6.1579	0.9
1.0	1.4142136	.7071068	.7071068	.5202601	2.0000	6.0000	1.0
1.1	1.4491377	.6900656	.7590721	.5118990	1.9048	5.8571	1.1
1.2	1.4832397	.6741999	.8090398	.5046284	1.8182	5.7273	1.2
1.3	1.5165751	.6593805	.8571946	.4982460	1.7391	5.6087	1.3
1.4	1.5491933	.6454972	.9036961	.4925970	1.6667	5.5000	1.4
1.5	1.5811388	.6324555	.9486833	.4875610	1.6000	5.4000	1.5
1.6	1.6124516	.6201737	.9922779	.4830426	1.5385	5.3077	1.6
1.7	1.6431677	.6085806	1.0345871	.4789655	1.4815	5.2222	1.7
1.8	1.6733200	.5976143	1.0757057	.4752677	1.4286	5.1429	1.8
1.9	1.7029386	.5872202	1.1157184	.4718983	1.3793	5.0690	1.9
2.0	1.7320508	.5773503	1.1547005	.4688152	1.3333	5.0000	2.0
2.1	1.7606817	.5679618	1.1927198	.4659832	1.2903	4.9355	2.1
2.2	1.7888544	.5590170	1.2298374	.4633729	1.2500	4.8750	2.2
2.3	1.8165902	.5504819	1.2661083	.4609589	1.2121	4.8182	2.3
2.4	1.8439089	.5423261	1.3015827	.4587200	1.1765	4.7647	2.4
2.5	1.8708287	.5345225	1.3363062	.4566376	1.1429	4.7143	2.5
2.6	1.8973666	.5270463	1.3703203	.4546958	1.1111	4.6667	2.6
2.7	1.9235384	.5198752	1.4036632	.4528809	1.0811	4.6216	2.7
2.8	1.9493589	.5129892	1.4363697	.4511807	1.0526	4.5789	2.8
2.9	1.9748418	.5063697	1.4684721	.4495847	1.0256	4.5385	2.9
3.0	2.0000000	.5000000	1.5000000	.4480836	1.0000	4.5000	3.0
3.1	2.0248457	.4938648	1.5309809	.4466691	.9756	4.4634	3.1
3.2	2.0493902	.4879500	1.5614401	.4453340	.9524	4.4286	3.2
3.3	2.0736441	.4822428	1.5914013	.4440716	.9302	4.3953	3.3
3.4	2.0976177	.4767313	1.6208864	.4428763	.9091	4.3636	3.4
3.5	2.1213203	.4714045	1.6499158	.4417428	.8889	4.3333	3.5
3.6	2.1447611	.4662524	1.6785087	.4406664	.8696	4.3043	3.6
3.7	2.1679483	.4612656	1.7066827	.4396429	.8511	4.2766	3.7
3.8	2.1908902	.4564355	1.7344548	.4386685	.8333	4.2500	3.8
3.9	2.2135944	.4517540	1.7618404	.4377398	.8163	4.2245	3.9
4.0	2.2360680	.4472136	1.7888544	.4368535	.8000	4.2000	4.0

$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$x = \frac{p^p e^{-p} \sqrt{p+1}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
4.0	2.2360680	.4472136	1.7888544	.4368535	.8000	4.2000	4.0
4.1	2.2583180	.4428074	1.8155105	.4360069	.7843	4.1765	4.1
4.2	2.2803508	.4385290	1.8418218	.4351973	.7692	4.1538	4.2
4.3	2.3021729	.4343722	1.8678007	.4344223	.7547	4.1321	4.3
4.4	2.3237900	.4303315	1.8934585	.4336799	.7407	4.1111	4.4
4.5	2.3452079	.4264014	1.9188064	.4329679	.7273	4.0909	4.5
4.6	2.3664319	.4225771	1.9438548	.4322846	.7143	4.0714	4.6
4.7	2.3874673	.4188539	1.9686134	.4316282	.7018	4.0526	4.7
4.8	2.4083189	.4152274	1.9930915	.4309971	.6897	4.0345	4.8
4.9	2.4289916	.4116935	2.0172981	.4303900	.6780	4.0169	4.9
5.0	2.4494897	.4082483	2.0412415	.4298055	.6667	4.0000	5.0
5.1	2.4698178	.4048882	2.0649296	.4292424	.6557	3.9836	5.1
5.2	2.4899799	.4016097	2.0883703	.4286994	.6452	3.9677	5.2
5.3	2.5099801	.3984095	2.1115705	.4281756	.6349	3.9524	5.3
5.4	2.5298221	.3952847	2.1345374	.4276699	.6250	3.9375	5.4
5.5	2.5495098	.3922323	2.1572775	.4271814	.6154	3.9231	5.5
5.6	2.5690465	.3892495	2.1797970	.4267093	.6061	3.9091	5.6
5.7	2.5884358	.3863337	2.2021021	.4262527	.5970	3.8955	5.7
5.8	2.6076810	.3834825	2.2241985	.4258109	.5882	3.8824	5.8
5.9	2.6267851	.3806935	2.2460916	.4253832	.5797	3.8696	5.9
6.0	2.6457513	.3779645	2.2677868	.4249689	.5714	3.8571	6.0
6.1	2.6645825	.3752933	2.2892892	.4245674	.5634	3.8451	6.1
6.2	2.6832816	.3726780	2.3106036	.4241781	.5556	3.8333	6.2
6.3	2.7018512	.3701166	2.3317346	.4238004	.5479	3.8219	6.3
6.4	2.7202941	.3676073	2.3526868	.4234339	.5405	3.8108	6.4
6.5	2.7386128	.3651484	2.3734644	.4230781	.5333	3.8000	6.5
6.6	2.7568098	.3627381	2.3940716	.4227324	.5263	3.7895	6.6
6.7	2.7748874	.3603750	2.4145124	.4223965	.5195	3.7792	6.7
6.8	2.7928480	.3580574	2.4347906	.4220700	.5128	3.7692	6.8
6.9	2.8106939	.3557840	2.4549098	.4217525	.5063	3.7595	6.9
7.0	2.8284271	.3535534	2.4748737	.4214435	.5000	3.7500	7.0
7.1	2.8460499	.3513642	2.4946857	.4211428	.4938	3.7407	7.1
7.2	2.8635642	.3492151	2.5143491	.4208501	.4878	3.7317	7.2
7.3	2.8809721	.3471051	2.5338670	.4205649	.4819	3.7229	7.3
7.4	2.8982753	.3450328	2.5532426	.4202871	.4762	3.7143	7.4
7.5	2.9154759	.3429972	2.5724788	.4200164	.4706	3.7059	7.5
7.6	2.9325757	.3409972	2.5915785	.4197524	.4651	3.6977	7.6
7.7	2.9495762	.3390318	2.6105445	.4194950	.4598	3.6897	7.7
7.8	2.9664794	.3370999	2.6293795	.4192439	.4545	3.6818	7.8
7.9	2.9832868	.3352008	2.6480860	.4189988	.4494	3.6742	7.9
8.0	3.0000000	.3333333	2.6666667	.4187596	.4444	3.6667	8.0
8.1	3.0166206	.3314968	2.6851239	.4185260	.4396	3.6593	8.1
8.2	3.0331502	.3296902	2.7034599	.4182979	.4348	3.6522	8.2
8.3	3.0495901	.3279129	2.7216772	.4180750	.4301	3.6452	8.3
8.4	3.0659419	.3261640	2.7397779	.4178572	.4255	3.6383	8.4
8.5	3.0822070	.3244428	2.7577642	.4176443	.4211	3.6316	8.5
8.6	3.0983867	.3227486	2.7756381	.4174362	.4167	3.6250	8.6
8.7	3.1144823	.3210806	2.7934017	.4172326	.4124	3.6186	8.7
8.8	3.1304952	.3194383	2.8110569	.4170335	.4082	3.6122	8.8
8.9	3.1464265	.3178209	2.8286057	.4168386	.4040	3.6061	8.9
9.0	3.1622777	.3162278	2.8460499	.4166479	.4000	3.6000	9.0
9.1	3.1780497	.3146584	2.8633913	.4164612	.3960	3.5941	9.1
9.2	3.1937439	.3131121	2.8806317	.4162785	.3922	3.5882	9.2
9.3	3.2093613	.3115885	2.8977728	.4160995	.3883	3.5825	9.3
9.4	3.2249031	.3100868	2.9148163	.4159241	.3846	3.5769	9.4
9.5	3.2403703	.3086067	2.9317636	.4157523	.3810	3.5714	9.5
9.6	3.2557641	.3071476	2.9486166	.4155840	.3774	3.5660	9.6
9.7	3.2710854	.3057089	2.9653765	.4154190	.3738	3.5607	9.7
9.8	3.2863353	.3042903	2.9820450	.4152572	.3704	3.5556	9.8
9.9	3.3015148	.3028913	2.9986235	.4150986	.3670	3.5505	9.9
10.0	3.3166248	.3015113	3.0151134	.4149430	.3636	3.5455	10.0



$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$x = \frac{p^p e^{-p} \sqrt{p+1}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
10.0	3.3166248	.3015113	3.0151134	.4149430	.3636	3.5455	10.0
10.1	3.3316662	.3001501	3.0315161	.4147904	.3604	3.5405	10.1
10.2	3.3466401	.2988072	3.0478330	.4146407	.3571	3.5357	10.2
10.3	3.3615473	.2974821	3.0640652	.4144938	.3540	3.5310	10.3
10.4	3.3763886	.2961744	3.0802142	.4143496	.3509	3.5263	10.4
10.5	3.3911650	.2948839	3.0962811	.4142081	.3478	3.5217	10.5
10.6	3.4058773	.2936101	3.1122672	.4140691	.3448	3.5172	10.6
10.7	3.4205263	.2923527	3.1281736	.4139327	.3419	3.5128	10.7
10.8	3.4351128	.2911113	3.1440016	.4137987	.3390	3.5085	10.8
10.9	3.4496377	.2898855	3.1597521	.4136671	.3361	3.5042	10.9
11.0	3.4641016	.2886751	3.1754265	.4135377	.3333	3.5000	11.0
11.1	3.4785054	.2874798	3.1910256	.4134107	.3306	3.4959	11.1
11.2	3.4928498	.2862992	3.2065507	.4132858	.3279	3.4918	11.2
11.3	3.5071356	.2851310	3.2220026	.4131630	.3252	3.4878	11.3
11.4	3.5213634	.2839809	3.2373825	.4130424	.3226	3.4839	11.4
11.5	3.5355339	.2828427	3.2526912	.4129238	.3200	3.4800	11.5
11.6	3.5496479	.2817181	3.2679298	.4128071	.3175	3.4762	11.6
11.7	3.5637059	.2806068	3.2830992	.4126924	.3150	3.4724	11.7
11.8	3.5777088	.2795085	3.2982003	.4125796	.3125	3.4687	11.8
11.9	3.5916570	.2784230	3.3132340	.4124686	.3101	3.4651	11.9
12.0	3.6055513	.2773501	3.3282012	.4123594	.3077	3.4615	12.0
12.1	3.6193922	.2762895	3.3431027	.4122519	.3053	3.4580	12.1
12.2	3.6331804	.2752409	3.3579395	.4121462	.3030	3.4545	12.2
12.3	3.6469165	.2742042	3.3727123	.4120421	.3008	3.4511	12.3
12.4	3.6606010	.2731792	3.3874219	.4119397	.2985	3.4478	12.4
12.5	3.6742346	.2721655	3.4020691	.4118388	.2963	3.4444	12.5
12.6	3.6878178	.2711631	3.4166547	.4117395	.2941	3.4412	12.6
12.7	3.7013511	.2701716	3.4311795	.4116417	.2920	3.4380	12.7
12.8	3.7148351	.2691910	3.4456442	.4115454	.2899	3.4348	12.8
12.9	3.7282704	.2682209	3.4600495	.4114506	.2878	3.4317	12.9
13.0	3.7416574	.2672612	3.4743961	.4113571	.2857	3.4286	13.0
13.1	3.7549967	.2663118	3.4886848	.4112651	.2837	3.4255	13.1
13.2	3.7682887	.2653724	3.5029163	.4111744	.2817	3.4225	13.2
13.3	3.7815341	.2644429	3.5170911	.4110850	.2797	3.4196	13.3
13.4	3.7947332	.2635231	3.5312101	.4109969	.2778	3.4167	13.4
13.5	3.8078866	.2626129	3.5452737	.4109101	.2759	3.4138	13.5
13.6	3.8209946	.2617120	3.5592827	.4108246	.2740	3.4110	13.6
13.7	3.8340579	.2608203	3.5732376	.4107402	.2721	3.4082	13.7
13.8	3.8470768	.2599376	3.5871392	.4106571	.2703	3.4054	13.8
13.9	3.8600518	.2590639	3.6009879	.4105751	.2685	3.4027	13.9
14.0	3.8729833	.2581989	3.6147845	.4104942	.2667	3.4000	14.0
14.1	3.8858718	.2573425	3.6285293	.4104145	.2649	3.3974	14.1
14.2	3.8987177	.2564946	3.6422232	.4103358	.2632	3.3947	14.2
14.3	3.9115214	.2556550	3.6558664	.4102583	.2614	3.3922	14.3
14.4	3.9242834	.2548236	3.6694598	.4101817	.2597	3.3896	14.4
14.5	3.9370039	.2540003	3.6830037	.4101062	.2581	3.3871	14.5
14.6	3.9496835	.2531848	3.6964987	.4100318	.2564	3.3846	14.6
14.7	3.9623226	.2523772	3.7099453	.4099583	.2548	3.3822	14.7
14.8	3.9749214	.2515773	3.7233441	.4098857	.2532	3.3797	14.8
14.9	3.9874804	.2507849	3.7366955	.4098141	.2516	3.3774	14.9
15.0	4.0000000	.2500000	3.7500000	.4097435	.2500	3.3750	15.0
15.1	4.0124805	.2492224	3.7632581	.4096737	.2484	3.3727	15.1
15.2	4.0249224	.2484520	3.7764704	.4096049	.2469	3.3704	15.2
15.3	4.0373258	.2476887	3.7896371	.4095369	.2454	3.3681	15.3
15.4	4.0496913	.2469324	3.8027590	.4094698	.2439	3.3659	15.4
15.5	4.0620192	.2461830	3.8158362	.4094036	.2424	3.3636	15.5
15.6	4.0743098	.2454403	3.8288694	.4093381	.2410	3.3614	15.6
15.7	4.0865633	.2447044	3.8418590	.4092735	.2395	3.3593	15.7
15.8	4.0987803	.2439750	3.8548053	.4092097	.2381	3.3571	15.8
15.9	4.1109610	.2432521	3.8677088	.4091467	.2367	3.3550	15.9
16.0	4.1231056	.2425356	3.8805700	.4090844	.2353	3.3529	16.0

$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$\chi = \frac{p^p e^{-p} \sqrt{p+1}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
16.0	4.1231056	.2425356	3.8805700	.4090844	.2353	3.3529	16.0
16.1	4.1352146	.2418254	3.8933892	.4090229	.2339	3.3509	16.1
16.2	4.1472883	.2411214	3.9061669	.4089621	.2326	3.3488	16.2
16.3	4.1593269	.2404235	3.9189033	.4089021	.2312	3.3468	16.3
16.4	4.1713307	.2397317	3.9315991	.4088427	.2299	3.3448	16.4
16.5	4.1833001	.2390457	3.9442544	.4087841	.2286	3.3429	16.5
16.6	4.1952354	.2383656	3.9568697	.4087262	.2273	3.3409	16.6
16.7	4.2071368	.2376913	3.9694454	.4086689	.2260	3.3390	16.7
16.8	4.2190046	.2370227	3.9819819	.4086123	.2247	3.3371	16.8
16.9	4.2308392	.2363597	3.9944794	.4085564	.2234	3.3352	16.9
17.0	4.2426407	.2357023	4.0069384	.4085011	.2222	3.3333	17.0
17.1	4.2544095	.2350502	4.0193592	.4084465	.2210	3.3315	17.1
17.2	4.2661458	.2344036	4.0317422	.4083924	.2198	3.3297	17.2
17.3	4.2778499	.2337623	4.0440876	.4083390	.2186	3.3278	17.3
17.4	4.2895221	.2331262	4.0563959	.4082862	.2174	3.3261	17.4
17.5	4.3011626	.2324953	4.0686674	.4082339	.2162	3.3243	17.5
17.6	4.3127717	.2318694	4.0809023	.4081823	.2151	3.3226	17.6
17.7	4.3243497	.2312486	4.0931010	.4081312	.2139	3.3209	17.7
17.8	4.3358967	.2306328	4.1052639	.4080807	.2128	3.3191	17.8
17.9	4.3474130	.2300219	4.1173912	.4080307	.2116	3.3175	17.9
18.0	4.3588989	.2294157	4.1294832	.4079813	.2105	3.3158	18.0
18.1	4.3703547	.2288144	4.1415403	.4079324	.2094	3.3141	18.1
18.2	4.3817805	.2282177	4.1535627	.4078840	.2083	3.3125	18.2
18.3	4.3931765	.2276257	4.1655508	.4078362	.2073	3.3109	18.3
18.4	4.4045431	.2270383	4.1775048	.4077888	.2062	3.3093	18.4
18.5	4.4158804	.2264554	4.1894250	.4077420	.2051	3.3077	18.5
18.6	4.4271887	.2258770	4.2013117	.4076957	.2041	3.3061	18.6
18.7	4.4384682	.2253030	4.2131652	.4076498	.2030	3.3046	18.7
18.8	4.4497191	.2247333	4.2249858	.4076044	.2020	3.3030	18.8
18.9	4.4609416	.2241679	4.2367737	.4075595	.2010	3.3015	18.9
19.0	4.4721360	.2236068	4.2485292	.4075151	.2000	3.3000	19.0
19.1	4.4833024	.2230499	4.2602525	.4074711	.1990	3.2985	19.1
19.2	4.4944410	.2224971	4.2719439	.4074275	.1980	3.2970	19.2
19.3	4.5055521	.2219484	4.2836037	.4073844	.1970	3.2956	19.3
19.4	4.5166359	.2214037	4.2952322	.4073418	.1961	3.2941	19.4
19.5	4.5276926	.2208631	4.3068295	.4072995	.1951	3.2927	19.5
19.6	4.5387223	.2203263	4.3183960	.4072577	.1942	3.2913	19.6
19.7	4.5497253	.2197935	4.3299318	.4072163	.1932	3.2899	19.7
19.8	4.5607017	.2192645	4.3414372	.4071754	.1923	3.2885	19.8
19.9	4.5716518	.2187393	4.3529125	.4071348	.1914	3.2871	19.9
20.0	4.5825757	.2182179	4.3643578	.4070946	.1905	3.2857	20.0
20.1	4.5934736	.2177002	4.3757735	.4070548	.1896	3.2844	20.1
20.2	4.6043458	.2171861	4.3871597	.4070154	.1887	3.2830	20.2
20.3	4.6151923	.2166757	4.3985166	.4069763	.1878	3.2817	20.3
20.4	4.6260134	.2161689	4.4098446	.4069377	.1869	3.2804	20.4
20.5	4.6368092	.2156655	4.4211437	.4068995	.1860	3.2791	20.5
20.6	4.6475800	.2151657	4.4324143	.4068615	.1852	3.2778	20.6
20.7	4.6583259	.2146694	4.4436565	.4068240	.1843	3.2765	20.7
20.8	4.6690470	.2141765	4.4548705	.4067868	.1835	3.2752	20.8
20.9	4.6797436	.2136869	4.4660567	.4067499	.1826	3.2740	20.9
21.0	4.6904158	.2132007	4.4772150	.4067134	.1818	3.2727	21.0
21.1	4.7010637	.2127178	4.4883459	.4066773	.1810	3.2715	21.1
21.2	4.7116876	.2122382	4.4994494	.4066414	.1802	3.2703	21.2
21.3	4.7222876	.2117618	4.5105258	.4066059	.1794	3.2691	21.3
21.4	4.7328638	.2112886	4.5215753	.4065708	.1786	3.2679	21.4
21.5	4.7434165	.2108185	4.5325980	.4065359	.1778	3.2667	21.5
21.6	4.7539457	.2103516	4.5435941	.4065014	.1770	3.2655	21.6
21.7	4.7644517	.2098877	4.5545640	.4064672	.1762	3.2643	21.7
21.8	4.7749346	.2094270	4.5655076	.4064332	.1754	3.2632	21.8
21.9	4.7853944	.2089692	4.5764253	.4063996	.1747	3.2620	21.9
22.0	4.7958315	.2085144	4.5873171	.4063663	.1739	3.2609	22.0



$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$x = \frac{p^p e^{-p} \sqrt{p+1}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
22.0	4.7958315	.2085144	4.5873171	.4063663	.1739	3.2609	22.0
22.1	4.8062459	.2080626	4.5981833	.4063333	.1732	3.2597	22.1
22.2	4.8166378	.2076137	4.6090241	.4063006	.1724	3.2586	22.2
22.3	4.8270074	.2071677	4.6198397	.4062682	.1717	3.2575	22.3
22.4	4.8373546	.2067246	4.6306301	.4062360	.1709	3.2564	22.4
22.5	4.8476799	.2062842	4.6413956	.4062041	.1702	3.2553	22.5
22.6	4.8579831	.2058467	4.6521364	.4061726	.1695	3.2542	22.6
22.7	4.8682646	.2054120	4.6628526	.4061412	.1688	3.2532	22.7
22.8	4.8785244	.2049800	4.6735444	.4061102	.1681	3.2521	22.8
22.9	4.8887626	.2045507	4.6842119	.4060794	.1674	3.2510	22.9
23.0	4.8989795	.2041241	4.6948553	.4060489	.1667	3.2500	23.0
23.1	4.9091751	.2037002	4.7054749	.4060187	.1660	3.2490	23.1
23.2	4.9193496	.2032789	4.7160706	.4059887	.1653	3.2479	23.2
23.3	4.9295030	.2028602	4.7266428	.4059589	.1646	3.2469	23.3
23.4	4.9396356	.2024441	4.7371915	.4059294	.1639	3.2459	23.4
23.5	4.9497475	.2020305	4.7477170	.4059002	.1633	3.2449	23.5
23.6	4.9598387	.2016195	4.7582192	.4058712	.1626	3.2439	23.6
23.7	4.9699095	.2012109	4.7686985	.4058424	.1619	3.2429	23.7
23.8	4.9799598	.2008048	4.7791550	.4058139	.1613	3.2419	23.8
23.9	4.9899900	.2004012	4.7895888	.4057856	.1606	3.2410	23.9
24.0	5.0000000	.2000000	4.8000000	.4057575	.1600	3.2400	24.0
24.1	5.0099900	.1996012	4.8103888	.4057297	.1594	3.2390	24.1
24.2	5.0199602	.1992048	4.8207554	.4057021	.1587	3.2381	24.2
24.3	5.0299105	.1988107	4.8310998	.4056747	.1581	3.2372	24.3
24.4	5.0398413	.1984189	4.8414223	.4056476	.1575	3.2362	24.4
24.5	5.0497525	.1980295	4.8517230	.4056206	.1569	3.2353	24.5
24.6	5.0596443	.1976424	4.8620018	.4055939	.1562	3.2344	24.6
24.7	5.0695167	.1972575	4.8722593	.4055674	.1556	3.2335	24.7
24.8	5.0793700	.1968748	4.8824952	.4055411	.1550	3.2326	24.8
24.9	5.0892043	.1964944	4.8927099	.4055150	.1544	3.2317	24.9
25.0	5.0990195	.1961161	4.9029034	.4054891	.1538	3.2308	25.0
25.1	5.1088159	.1957401	4.9130758	.4054634	.1533	3.2299	25.1
25.2	5.1185936	.1953662	4.9232274	.4054379	.1527	3.2290	25.2
25.3	5.1283526	.1949944	4.9333582	.4054126	.1521	3.2281	25.3
25.4	5.1380930	.1946247	4.9434683	.4053875	.1515	3.2273	25.4
25.5	5.1478151	.1942572	4.9535579	.4053626	.1509	3.2264	25.5
25.6	5.1575188	.1938917	4.9636271	.4053379	.1504	3.2256	25.6
25.7	5.1672043	.1935283	4.9736760	.4053134	.1498	3.2247	25.7
25.8	5.1768716	.1931669	4.9837048	.4052891	.1493	3.2239	25.8
25.9	5.1865210	.1928075	4.9937135	.4052650	.1487	3.2230	25.9
26.0	5.1961524	.1924501	5.0037023	.4052410	.1481	3.2222	26.0
26.1	5.2057660	.1920947	5.0136713	.4052172	.1476	3.2214	26.1
26.2	5.2153619	.1917412	5.0236207	.4051936	.1471	3.2206	26.2
26.3	5.2249402	.1913898	5.0335504	.4051702	.1465	3.2198	26.3
26.4	5.2345009	.1910402	5.0434608	.4051469	.1460	3.2190	26.4
26.5	5.2440442	.1906925	5.0533517	.4051239	.1455	3.2182	26.5
26.6	5.2535702	.1903467	5.0632235	.4051010	.1449	3.2174	26.6
26.7	5.2630789	.1900029	5.0730761	.4050782	.1444	3.2166	26.7
26.8	5.2725705	.1896608	5.0829097	.4050557	.1439	3.2158	26.8
26.9	5.2820451	.1893206	5.0927244	.4050333	.1434	3.2151	26.9
27.0	5.2915026	.1889822	5.1025204	.4050110	.1429	3.2143	27.0
27.1	5.3009433	.1886457	5.1122976	.4049890	.1423	3.2135	27.1
27.2	5.3103672	.1883109	5.1220563	.4049670	.1418	3.2128	27.2
27.3	5.3197744	.1879779	5.1317965	.4049453	.1413	3.2120	27.3
27.4	5.3291650	.1876467	5.1415184	.4049237	.1408	3.2113	27.4
27.5	5.3385391	.1873172	5.1512220	.4049022	.1404	3.2105	27.5
27.6	5.3478968	.1869894	5.1609074	.4048809	.1399	3.2098	27.6
27.7	5.3572381	.1866633	5.1705747	.4048598	.1394	3.2091	27.7
27.8	5.3665631	.1863390	5.1802241	.4048388	.1389	3.2083	27.8
27.9	5.3758720	.1860163	5.1898557	.4048180	.1384	3.2076	27.9
28.0	5.3851648	.1856953	5.1994695	.4047973	.1379	3.2069	28.0

$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$x = \frac{p^p e^{-p} \sqrt{p+1}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
28.0	5.3851648	·1856953	5.1994695	·4047973	·1379	3.2069	28.0
28.1	5.3944416	·1853760	5.2090656	·4047767	·1375	3.2062	28.1
28.2	5.4037024	·1850583	5.2186441	·4047563	·1370	3.2055	28.2
28.3	5.4129474	·1847422	5.2282052	·4047360	·1365	3.2048	28.3
28.4	5.4221767	·1844278	5.2377489	·4047159	·1361	3.2041	28.4
28.5	5.4313902	·1841149	5.2472753	·4046959	·1356	3.2034	28.5
28.6	5.4405882	·1838037	5.2567845	·4046761	·1351	3.2027	28.6
28.7	5.4497706	·1834940	5.2662767	·4046564	·1347	3.2020	28.7
28.8	5.4589376	·1831858	5.2757518	·4046368	·1342	3.2013	28.8
28.9	5.4680892	·1828792	5.2852100	·4046174	·1338	3.2007	28.9
29.0	5.4772256	·1825742	5.2946514	·4045980	·1333	3.2000	29.0
29.1	5.4863467	·1822707	5.3040760	·4045789	·1329	3.1993	29.1
29.2	5.4954527	·1819686	5.3134840	·4045598	·1325	3.1987	29.2
29.3	5.5045436	·1816681	5.3228755	·4045409	·1320	3.1980	29.3
29.4	5.5136195	·1813691	5.3322504	·4045221	·1316	3.1974	29.4
29.5	5.5226805	·1810715	5.3416090	·4045034	·1311	3.1967	29.5
29.6	5.5317267	·1807754	5.3509513	·4044849	·1307	3.1961	29.6
29.7	5.5407581	·1804807	5.3602774	·4044665	·1303	3.1954	29.7
29.8	5.5497748	·1801875	5.3695873	·4044482	·1299	3.1948	29.8
29.9	5.5587768	·1798957	5.3788812	·4044300	·1294	3.1942	29.9
30.0	5.5677644	·1796053	5.3881591	·4044119	·1290	3.1935	30.0
30.1	5.5767374	·1793163	5.3974211	·4043940	·1286	3.1929	30.1
30.2	5.5856960	·1790287	5.4066673	·4043762	·1282	3.1923	30.2
30.3	5.5946403	·1787425	5.4158978	·4043585	·1278	3.1917	30.3
30.4	5.6035703	·1784577	5.4251126	·4043409	·1274	3.1911	30.4
30.5	5.6124861	·1781742	5.4343119	·4043234	·1270	3.1905	30.5
30.6	5.6213877	·1778920	5.4434957	·4043060	·1266	3.1899	30.6
30.7	5.6302753	·1776112	5.4526641	·4042888	·1262	3.1893	30.7
30.8	5.6391489	·1773317	5.4618171	·4042716	·1258	3.1887	30.8
30.9	5.6480085	·1770536	5.4709549	·4042546	·1254	3.1881	30.9
31.0	5.6568542	·1767767	5.4800776	·4042377	·1250	3.1875	31.0
31.1	5.6656862	·1765011	5.4891851	·4042209	·1246	3.1869	31.1
31.2	5.6745044	·1762268	5.4982775	·4042042	·1242	3.1863	31.2
31.3	5.6833089	·1759538	5.5073551	·4041875	·1238	3.1858	31.3
31.4	5.6920998	·1756821	5.5164177	·4041711	·1235	3.1852	31.4
31.5	5.7008771	·1754116	5.5254655	·4041547	·1231	3.1846	31.5
31.6	5.7096410	·1751424	5.5344986	·4041384	·1227	3.1840	31.6
31.7	5.7183914	·1748744	5.5435170	·4041222	·1223	3.1835	31.7
31.8	5.7271284	·1746076	5.5525209	·4041061	·1220	3.1829	31.8
31.9	5.7358522	·1743420	5.5615101	·4040901	·1216	3.1824	31.9
32.0	5.7445626	·1740777	5.5704850	·4040742	·1212	3.1818	32.0
32.1	5.7532599	·1738145	5.5794454	·4040584	·1208	3.1813	32.1
32.2	5.7619441	·1735525	5.5883916	·4040427	·1205	3.1807	32.2
32.3	5.7706152	·1732917	5.5973235	·4040271	·1201	3.1802	32.3
32.4	5.7792733	·1730321	5.6062412	·4040116	·1198	3.1796	32.4
32.5	5.7879185	·1727737	5.6151448	·4039962	·1194	3.1791	32.5
32.6	5.7965507	·1725164	5.6240343	·4039809	·1190	3.1786	32.6
32.7	5.8051701	·1722602	5.6329099	·4039656	·1187	3.1780	32.7
32.8	5.8137767	·1720052	5.6417715	·4039505	·1183	3.1775	32.8
32.9	5.8223707	·1717513	5.6506193	·4039355	·1180	3.1770	32.9
33.0	5.8309519	·1714986	5.6594533	·4039205	·1176	3.1765	33.0
33.1	5.8395205	·1712469	5.6682736	·4039056	·1173	3.1760	33.1
33.2	5.8480766	·1709964	5.6770802	·4038909	·1170	3.1754	33.2
33.3	5.8566202	·1707469	5.6858732	·4038762	·1166	3.1749	33.3
33.4	5.8651513	·1704986	5.6946527	·4038616	·1163	3.1744	33.4
33.5	5.8736701	·1702513	5.7034188	·4038470	·1159	3.1739	33.5
33.6	5.8821765	·1700051	5.7121714	·4038326	·1156	3.1734	33.6
33.7	5.8906706	·1697600	5.7209106	·4038183	·1153	3.1729	33.7
33.8	5.8991525	·1695159	5.7296366	·4038040	·1149	3.1724	33.8
33.9	5.9076222	·1692728	5.7383494	·4037898	·1146	3.1719	33.9
34.0	5.9160798	·1690309	5.7470489	·4037758	·1143	3.1714	34.0



$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$\chi = \frac{p^p e^{-p\sqrt{p+1}}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
34.0	5.9160798	.1690309	5.7470489	.4037758	.1143	3.1714	34.0
34.1	5.9245253	.1687899	5.7557354	.4037617	.1140	3.1709	34.1
34.2	5.9329588	.1685500	5.7644088	.4037478	.1136	3.1705	34.2
34.3	5.9413803	.1683111	5.7730693	.4037339	.1133	3.1700	34.3
34.4	5.9497899	.1680732	5.7817167	.4037202	.1130	3.1695	34.4
34.5	5.9581876	.1678363	5.7903514	.4037065	.1127	3.1690	34.5
34.6	5.9665736	.1676004	5.7989732	.4036929	.1124	3.1685	34.6
34.7	5.9749477	.1673655	5.8075822	.4036793	.1120	3.1681	34.7
34.8	5.9833101	.1671316	5.8161786	.4036659	.1117	3.1676	34.8
34.9	5.9916609	.1668986	5.8247622	.4036525	.1114	3.1671	34.9
35.0	6.0000000	.1666667	5.8333333	.4036392	.1111	3.1667	35.0
35.1	6.0083276	.1664357	5.8418919	.4036259	.1108	3.1662	35.1
35.2	6.0166436	.1662056	5.8504380	.4036128	.1105	3.1657	35.2
35.3	6.0249481	.1659765	5.8589716	.4035997	.1102	3.1653	35.3
35.4	6.0332413	.1657484	5.8674929	.4035867	.1099	3.1648	35.4
35.5	6.0415230	.1655212	5.8760018	.4035737	.1096	3.1644	35.5
35.6	6.0497934	.1652949	5.8844985	.4035609	.1093	3.1639	35.6
35.7	6.0580525	.1650695	5.8929829	.4035481	.1090	3.1635	35.7
35.8	6.0663004	.1648451	5.9014552	.4035353	.1087	3.1630	35.8
35.9	6.0745370	.1646216	5.9099154	.4035227	.1084	3.1626	35.9
36.0	6.0827625	.1643990	5.9183635	.4035101	.1081	3.1622	36.0
36.1	6.0909769	.1641773	5.9267997	.4034976	.1078	3.1617	36.1
36.2	6.0991803	.1639565	5.9352238	.4034851	.1075	3.1613	36.2
36.3	6.1073726	.1637365	5.9436361	.4034727	.1072	3.1609	36.3
36.4	6.1155539	.1635175	5.9520365	.4034604	.1070	3.1604	36.4
36.5	6.1237244	.1632993	5.9604250	.4034482	.1067	3.1600	36.5
36.6	6.1318839	.1630820	5.9688019	.4034360	.1064	3.1596	36.6
36.7	6.1400326	.1628656	5.9771670	.4034239	.1061	3.1592	36.7
36.8	6.1481705	.1626500	5.9855204	.4034118	.1058	3.1587	36.8
36.9	6.1562976	.1624353	5.9938623	.4033998	.1055	3.1583	36.9
37.0	6.1644140	.1622214	6.0021926	.4033879	.1053	3.1579	37.0
37.1	6.1725197	.1620084	6.0105114	.4033761	.1050	3.1575	37.1
37.2	6.1806149	.1617962	6.0188187	.4033643	.1047	3.1571	37.2
37.3	6.1886994	.1615848	6.0271145	.4033525	.1044	3.1567	37.3
37.4	6.1967734	.1613743	6.0353990	.4033409	.1042	3.1562	37.4
37.5	6.2048368	.1611646	6.0436722	.4033293	.1039	3.1558	37.5
37.6	6.2128898	.1609557	6.0519341	.4033177	.1036	3.1554	37.6
37.7	6.2209324	.1607476	6.0601848	.4033062	.1034	3.1550	37.7
37.8	6.2289646	.1605403	6.0684243	.4032948	.1031	3.1546	37.8
37.9	6.2369865	.1603338	6.0766526	.4032834	.1028	3.1542	37.9
38.0	6.2449980	.1601282	6.0848698	.4032721	.1026	3.1538	38.0
38.1	6.2529993	.1599233	6.0930760	.4032608	.1023	3.1535	38.1
38.2	6.2609903	.1597191	6.1012712	.4032497	.1020	3.1531	38.2
38.3	6.2689712	.1595158	6.1094554	.4032385	.1018	3.1527	38.3
38.4	6.2769419	.1593132	6.1176287	.4032275	.1015	3.1523	38.4
38.5	6.2849025	.1591115	6.1257911	.4032164	.1013	3.1519	38.5
38.6	6.2928531	.1589104	6.1339427	.4032055	.1010	3.1515	38.6
38.7	6.3007936	.1587102	6.1420834	.4031946	.1008	3.1511	38.7
38.8	6.3087241	.1585107	6.1502135	.4031837	.1005	3.1508	38.8
38.9	6.3166447	.1583119	6.1583328	.4031729	.1003	3.1504	38.9
39.0	6.3245553	.1581139	6.1664414	.4031622	.1000	3.1500	39.0
39.1	6.3324561	.1579166	6.1745395	.4031515	.0998	3.1496	39.1
39.2	6.3403470	.1577201	6.1826269	.4031409	.0995	3.1493	39.2
39.3	6.3482281	.1575243	6.1907038	.4031303	.0993	3.1489	39.3
39.4	6.3560994	.1573292	6.1987702	.4031198	.0990	3.1485	39.4
39.5	6.3639610	.1571348	6.2068262	.4031093	.0988	3.1481	39.5
39.6	6.3718129	.1569412	6.2148717	.4030989	.0985	3.1478	39.6
39.7	6.3796552	.1567483	6.2229069	.4030885	.0983	3.1474	39.7
39.8	6.3874878	.1565561	6.2309317	.4030782	.0980	3.1471	39.8
39.9	6.3953108	.1563646	6.2389462	.4030679	.0978	3.1467	39.9
40.0	6.4031242	.1561738	6.2469505	.4030577	.0976	3.1463	40.0

$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$x = \frac{p^p e^{-p} \sqrt{p+1}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
40.0	6.4031242	.1561738	6.2469505	.4030577	.0976	3.1463	40.0
40.1	6.4109282	.1559837	6.2549445	.4030475	.0973	3.1460	40.1
40.2	6.4187226	.1557942	6.2629284	.4030374	.0971	3.1456	40.2
40.3	6.4265076	.1556055	6.2709021	.4030274	.0969	3.1453	40.3
40.4	6.4342832	.1554175	6.2788657	.4030173	.0966	3.1449	40.4
40.5	6.4420494	.1552301	6.2868193	.4030074	.0964	3.1446	40.5
40.6	6.4498062	.1550434	6.2947628	.4029975	.0962	3.1442	40.6
40.7	6.4575537	.1548574	6.3026963	.4029876	.0959	3.1439	40.7
40.8	6.4652919	.1546721	6.3106199	.4029778	.0957	3.1435	40.8
40.9	6.4730209	.1544874	6.3185336	.4029680	.0955	3.1432	40.9
41.0	6.4807407	.1543033	6.3264373	.4029583	.0952	3.1429	41.0
41.1	6.4884513	.1541200	6.3343313	.4029486	.0950	3.1425	41.1
41.2	6.4961527	.1539373	6.3422154	.4029390	.0948	3.1422	41.2
41.3	6.5038450	.1537552	6.3500898	.4029294	.0946	3.1418	41.3
41.4	6.5115282	.1535738	6.3579545	.4029198	.0943	3.1415	41.4
41.5	6.5192024	.1533930	6.3658094	.4029103	.0941	3.1412	41.5
41.6	6.5268675	.1532129	6.3736547	.4029009	.0939	3.1408	41.6
41.7	6.5345237	.1530333	6.3814903	.4028915	.0937	3.1405	41.7
41.8	6.5421709	.1528545	6.3893164	.4028821	.0935	3.1402	41.8
41.9	6.5498092	.1526762	6.3971330	.4028728	.0932	3.1399	41.9
42.0	6.5574385	.1524986	6.4049400	.4028635	.0930	3.1395	42.0
42.1	6.5650590	.1523216	6.4127375	.4028543	.0928	3.1392	42.1
42.2	6.5726707	.1521452	6.4205255	.4028451	.0926	3.1389	42.2
42.3	6.5802736	.1519694	6.4283042	.4028360	.0924	3.1386	42.3
42.4	6.5878676	.1517942	6.4360734	.4028269	.0922	3.1382	42.4
42.5	6.5954530	.1516196	6.4438334	.4028178	.0920	3.1379	42.5
42.6	6.6030296	.1514456	6.4515840	.4028088	.0917	3.1376	42.6
42.7	6.6105976	.1512723	6.4593253	.4027998	.0915	3.1373	42.7
42.8	6.6181568	.1510995	6.4670574	.4027909	.0913	3.1370	42.8
42.9	6.6257075	.1509273	6.4747802	.4027820	.0911	3.1367	42.9
43.0	6.6332496	.1507557	6.4824939	.4027732	.0909	3.1364	43.0
43.1	6.6407831	.1505847	6.4901984	.4027644	.0907	3.1361	43.1
43.2	6.6483081	.1504142	6.4978939	.4027556	.0905	3.1357	43.2
43.3	6.6558245	.1502443	6.5055802	.4027469	.0903	3.1354	43.3
43.4	6.6633325	.1500751	6.5132574	.4027382	.0901	3.1351	43.4
43.5	6.6708320	.1499063	6.5209257	.4027295	.0899	3.1348	43.5
43.6	6.6783231	.1497382	6.5285850	.4027209	.0897	3.1345	43.6
43.7	6.6858059	.1495706	6.5362353	.4027123	.0895	3.1342	43.7
43.8	6.6932802	.1494036	6.5438766	.4027038	.0893	3.1339	43.8
43.9	6.7007462	.1492371	6.5515091	.4026953	.0891	3.1336	43.9
44.0	6.7082039	.1490712	6.5591327	.4026869	.0889	3.1333	44.0
44.1	6.7156534	.1489058	6.5667475	.4026785	.0887	3.1330	44.1
44.2	6.7230945	.1487410	6.5743535	.4026701	.0885	3.1327	44.2
44.3	6.7305275	.1485768	6.5819507	.4026617	.0883	3.1325	44.3
44.4	6.7379522	.1484130	6.5895392	.4026534	.0881	3.1322	44.4
44.5	6.7453688	.1482499	6.5971189	.4026452	.0879	3.1319	44.5
44.6	6.7527772	.1480872	6.6046900	.4026369	.0877	3.1316	44.6
44.7	6.7601775	.1479251	6.6122524	.4026287	.0875	3.1313	44.7
44.8	6.7675697	.1477635	6.6198062	.4026206	.0873	3.1310	44.8
44.9	6.7749539	.1476025	6.6273514	.4026125	.0871	3.1307	44.9
45.0	6.7823300	.1474420	6.6348880	.4026044	.0870	3.1304	45.0
45.1	6.7896981	.1472820	6.6424161	.4025963	.0868	3.1301	45.1
45.2	6.7970582	.1471225	6.6499357	.4025883	.0866	3.1299	45.2
45.3	6.8044103	.1469635	6.6574468	.4025803	.0864	3.1296	45.3
45.4	6.8117545	.1468051	6.6649495	.4025724	.0862	3.1293	45.4
45.5	6.8190908	.1466471	6.6724437	.4025645	.0860	3.1290	45.5
45.6	6.8264193	.1464897	6.6799296	.4025566	.0858	3.1288	45.6
45.7	6.8337398	.1463328	6.6874071	.4025488	.0857	3.1285	45.7
45.8	6.8410526	.1461763	6.6948762	.4025410	.0855	3.1282	45.8
45.9	6.8483575	.1460204	6.7023371	.4025332	.0853	3.1279	45.9
46.0	6.8556546	.1458650	6.7097896	.4025254	.0851	3.1277	46.0

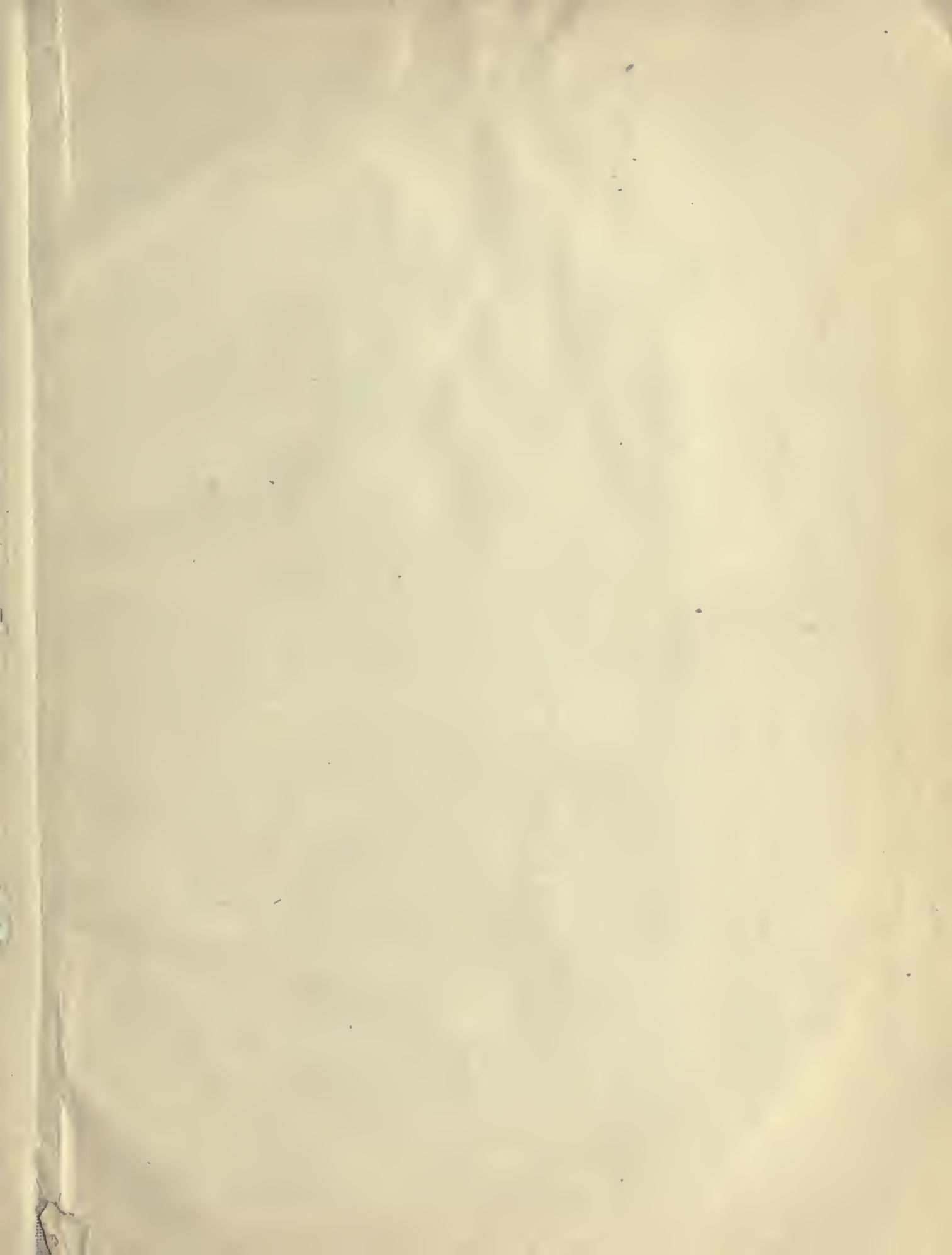


$p$	$\sqrt{p+1}$	$\frac{1}{\sqrt{p+1}}$	$\frac{p}{\sqrt{p+1}}$	$x = \frac{p^p e^{-p} \sqrt{p+1}}{\Gamma(p+1)}$	$\beta_1 = \frac{4}{p+1}$	$\beta_2 = 3 + \frac{6}{p+1}$	$p$
46.0	6.8556546	.1458650	6.7097896	.4025254	.0851	3.1277	46.0
46.1	6.8629440	.1457101	6.7172339	.4025177	.0849	3.1274	46.1
46.2	6.8702256	.1455556	6.7246700	.4025101	.0847	3.1271	46.2
46.3	6.8774995	.1454017	6.7320979	.4025024	.0846	3.1268	46.3
46.4	6.8847658	.1452482	6.7395176	.4024948	.0844	3.1266	46.4
46.5	6.8920244	.1450952	6.7469291	.4024872	.0842	3.1263	46.5
46.6	6.8992753	.1449428	6.7543326	.4024797	.0840	3.1261	46.6
46.7	6.9065187	.1447907	6.7617279	.4024722	.0839	3.1258	46.7
46.8	6.9137544	.1446392	6.7691152	.4024647	.0837	3.1255	46.8
46.9	6.9209826	.1444882	6.7764944	.4024573	.0835	3.1253	46.9
47.0	6.9282032	.1443376	6.7838657	.4024498	.0833	3.1250	47.0
47.1	6.9354164	.1441875	6.7912289	.4024425	.0832	3.1247	47.1
47.2	6.9426220	.1440378	6.7985842	.4024351	.0830	3.1245	47.2
47.3	6.9498201	.1438886	6.8059315	.4024278	.0828	3.1242	47.3
47.4	6.9570109	.1437399	6.8132710	.4024205	.0826	3.1240	47.4
47.5	6.9641941	.1435916	6.8206025	.4024132	.0825	3.1237	47.5
47.6	6.9713700	.1434438	6.8279262	.4024060	.0823	3.1235	47.6
47.7	6.9785385	.1432965	6.8352421	.4023988	.0821	3.1232	47.7
47.8	6.9856997	.1431496	6.8425501	.4023916	.0820	3.1230	47.8
47.9	6.9928535	.1430031	6.8498504	.4023845	.0818	3.1227	47.9
48.0	7.0000000	.1428571	6.8571429	.4023774	.0816	3.1224	48.0
48.1	7.0071392	.1427116	6.8644276	.4023703	.0815	3.1222	48.1
48.2	7.0142712	.1425665	6.8717047	.4023632	.0813	3.1220	48.2
48.3	7.0213959	.1424218	6.8789741	.4023562	.0811	3.1217	48.3
48.4	7.0285134	.1422776	6.8862358	.4023492	.0810	3.1215	48.4
48.5	7.0356236	.1421338	6.8934898	.4023422	.0808	3.1212	48.5
48.6	7.0427267	.1419905	6.9007363	.4023353	.0806	3.1210	48.6
48.7	7.0498227	.1418475	6.9079752	.4023284	.0805	3.1207	48.7
48.8	7.0569115	.1417051	6.9152065	.4023215	.0803	3.1205	48.8
48.9	7.0639932	.1415630	6.9224302	.4023146	.0802	3.1202	48.9
49.0	7.0710678	.1414214	6.9296464	.4023078	.0800	3.1200	49.0
49.1	7.0781353	.1412801	6.9368552	.4023010	.0798	3.1198	49.1
49.2	7.0851958	.1411394	6.9440565	.4022942	.0797	3.1195	49.2
49.3	7.0922493	.1409990	6.9512503	.4022875	.0795	3.1193	49.3
49.4	7.0992957	.1408590	6.9584367	.4022808	.0794	3.1190	49.4
49.5	7.1063352	.1407195	6.9656157	.4022741	.0792	3.1188	49.5
49.6	7.1133677	.1405804	6.9727873	.4022674	.0791	3.1186	49.6
49.7	7.1203932	.1404417	6.9799516	.4022608	.0789	3.1183	49.7
49.8	7.1274119	.1403034	6.9871085	.4022542	.0787	3.1181	49.8
49.9	7.1344236	.1401655	6.9942581	.4022476	.0786	3.1179	49.9
50.0	7.1414284	.1400280	7.0014004	.4022410	.0784	3.1176	50.0
50.1	7.1484264	.1398909	7.0085355	.4022345	.0783	3.1174	50.1

$u$	$p = -1.00$	$p = -0.99$	$p = -0.98$	$p = -0.97$	$p = -0.96$	$p = -0.95$	$p = -0.94$	$p = -0.93$	$p = -0.92$	$p = -0.91$	$p = -0.90$	$p = -0.89$	$p = -0.88$	$p = -0.87$	$u$
0	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	0
1	1.00000	.96035	.92846	.89979	.87332	.84855	.82516	.80294	.78176	.76148	.74203	.72332	.70529	.68789	1
2	1.00000	.96693	.94116	.91824	.89720	.87755	.85903	.84143	.82464	.80853	.79305	.77811	.76368	.74971	2
3	1.00000	.97077	.94857	.92902	.91118	.89460	.87900	.86420	.85009	.83658	.82357	.81103	.79890	.78714	3
4	1.00000	.97347	.95378	.93661	.92104	.90662	.89311	.88032	.86814	.85649	.84529	.83449	.82404	.81392	4
5	1.00000	.97555	.95779	.94245	.92861	.91587	.90395	.89271	.88203	.87183	.86203	.85259	.84347	.83463	5
6	1.00000	.97723	.96103	.94716	.93473	.92332	.91270	.90271	.89324	.88421	.87555	.86722	.85918	.85139	6
7	1.00000	.97865	.96374	.95109	.93983	.92954	.92000	.91105	.90258	.89452	.88681	.87941	.87231	.86536	7
8	1.00000	.97986	.96607	.95446	.94418	.93485	.92622	.91815	.91053	.90331	.89640	.88978	.88341	.87725	8
9	1.00000	.98092	.96809	.95739	.94797	.93945	.93161	.92430	.91742	.91091	.90470	.89876	.89305	.88753	9
1.0	1.00000	.98186	.96988	.95997	.95130	.94350	.93635	.92970	.92347	.91758	.91198	.90662	.90148	.89654	1.0
1.1	1.00000	.98271	.97148	.96227	.95427	.94710	.94055	.93449	.92883	.92348	.91841	.91358	.90895	.90449	1.1
1.2	1.00000	.98347	.97292	.96434	.95693	.95033	.94432	.93878	.93362	.92876	.92416	.91979	.91560	.91159	1.2
1.3	1.00000	.98417	.97423	.96622	.95935	.95325	.94772	.94265	.93793	.93350	.92933	.92536	.92157	.91795	1.3
1.4	1.00000	.98481	.97543	.96794	.96154	.95590	.95081	.94615	.94183	.93780	.93399	.93039	.92696	.92368	1.4
1.5	1.00000	.98539	.97653	.96951	.96355	.95832	.95363	.94934	.94539	.94170	.93824	.93496	.93185	.92889	1.5
1.6	1.00000	.98594	.97755	.97095	.96540	.96054	.95621	.95226	.94864	.94526	.94211	.93913	.93631	.93362	1.6
1.7	1.00000	.98645	.97849	.97229	.96710	.96259	.95858	.95495	.95162	.94853	.94565	.94294	.94038	.93794	1.7
1.8	1.00000	.98692	.97937	.97353	.96868	.96449	.96077	.95742	.95436	.95154	.94891	.94644	.94411	.94190	1.8
1.9	1.00000	.98737	.98019	.97469	.97015	.96624	.96280	.95971	.95690	.95431	.95191	.94966	.94755	.94555	1.9
2.0	1.00000	.98778	.98096	.97577	.97152	.96788	.96469	.96183	.95925	.95688	.95468	.95263	.95071	.94890	2.0
2.1	1.00000	.98818	.98168	.97678	.97279	.96940	.96644	.96381	.96143	.95925	.95725	.95539	.95364	.95200	2.1
2.2	1.00000	.98855	.98236	.97773	.97399	.97083	.96808	.96565	.96346	.96146	.95963	.95794	.95635	.95487	2.2
2.3	1.00000	.98890	.98300	.97862	.97511	.97216	.96961	.96736	.96535	.96352	.96185	.96031	.95887	.95753	2.3
2.4	1.00000	.98923	.98360	.97947	.97617	.97341	.97104	.96897	.96711	.96544	.96392	.96251	.96121	.96000	2.4
2.5	1.00000	.98955	.98417	.98026	.97716	.97459	.97239	.97047	.96877	.96724	.96584	.96457	.96339	.96229	2.5
2.6	1.00000	.98985	.98471	.98101	.97810	.97570	.97365	.97188	.97032	.96891	.96765	.96649	.96542	.96443	2.6
2.7	1.00000	.99014	.98523	.98172	.97898	.97674	.97484	.97321	.97177	.97049	.96933	.96828	.96732	.96643	2.7
2.8	1.00000	.99041	.98572	.98239	.97982	.97773	.97597	.97446	.97313	.97196	.97091	.96996	.96909	.96829	2.8
2.9	1.00000	.99068	.98618	.98303	.98061	.97866	.97702	.97563	.97442	.97335	.97240	.97154	.97075	.97004	2.9
3.0	1.00000	.99093	.98663	.98364	.98137	.97954	.97802	.97674	.97563	.97465	.97379	.97301	.97231	.97167	3.0
3.1	1.00000	.99117	.98705	.98422	.98208	.98037	.97897	.97778	.97677	.97588	.97510	.97440	.97377	.97320	3.1
3.2	1.00000	.99140	.98745	.98477	.98276	.98117	.97986	.97877	.97784	.97704	.97633	.97570	.97514	.97463	3.2
3.3	1.00000	.99162	.98784	.98530	.98340	.98192	.98071	.97971	.97886	.97813	.97749	.97693	.97643	.97598	3.3
3.4	1.00000	.99183	.98821	.98580	.98402	.98263	.98152	.98059	.97982	.97916	.97858	.97808	.97764	.97724	3.4
3.5	1.00000	.99204	.98857	.98628	.98460	.98331	.98228	.98143	.98073	.98013	.97962	.97917	.97878	.97843	3.5
3.6	1.00000	.99223	.98891	.98674	.98516	.98396	.98300	.98223	.98159	.98105	.98059	.98020	.97985	.97955	3.6
3.7	1.00000	.99242	.98923	.98717	.98570	.98458	.98369	.98299	.98240	.98192	.98151	.98116	.98086	.98060	3.7
3.8	1.00000	.99260	.98955	.98759	.98621	.98516	.98435	.98370	.98318	.98274	.98238	.98208	.98182	.98160	3.8
3.9	1.00000	.99278	.98985	.98799	.98669	.98572	.98497	.98438	.98391	.98353	.98321	.98294	.98272	.98253	3.9
4.0	1.00000	.99295	.99014	.98838	.98716	.98626	.98557	.98503	.98461	.98427	.98399	.98376	.98357	.98341	4.0
4.1	1.00000	.99311	.99042	.98875	.98760	.98677	.98614	.98565	.98527	.98497	.98473	.98453	.98438	.98425	4.1
4.2	1.00000	.99327	.99068	.98910	.98803	.98725	.98668	.98624	.98590	.98564	.98543	.98526	.98514	.98503	4.2
4.3	1.00000	.99343	.99094	.98945	.98844	.98772	.98719	.98680	.98650	.98627	.98609	.98596	.98586	.98578	4.3
4.4	1.00000	.99358	.99119	.98977	.98883	.98817	.98768	.98733	.98707	.98687	.98672	.98661	.98654	.98648	4.4
4.5	1.00000	.99372	.99143	.99009	.98920	.98859	.98815	.98784	.98761	.98744	.98732	.98724	.98718	.98714	4.5
4.6	1.00000	.99386	.99166	.99039	.98956	.98900	.98860	.98832	.98812	.98799	.98789	.98783	.98779	.98777	4.6
4.7	1.00000	.99399	.99189	.99068	.98991	.98939	.98903	.98879	.98862	.98850	.98843	.98839	.98837	.98837	4.7
4.8	1.00000	.99412	.99210	.99096	.99024	.98977	.98944	.98923	.98908	.98899	.98894	.98892	.98892	.98893	4.8
4.9	1.00000	.99425	.99231	.99123	.99056	.99013	.98984	.98965	.98953	.98946	.98943	.98942	.98944	.98947	4.9
5.0	1.00000	.99437	.99251	.99149	.99087	.99047	.99021	.99005	.98996	.98991	.98990	.98990	.98993	.98997	5.0
5.1	1.00000	.99449	.99271	.99174	.99116	.99080	.99057	.99044	.99037	.99034	.99034	.99036	.99040	.99045	5.1
5.2	1.00000	.99461	.99290	.99199	.99145	.99112	.99092	.99081	.99075	.99074	.99076	.99079	.99084	.99091	5.2
5.3	1.00000	.99472	.99308	.99222	.99172	.99143	.99125	.99116	.99112	.99112	.99113	.99116	.99121	.99127	5.3
5.4	1.00000	.99483	.99325	.99244	.99198	.99172	.99157	.99150	.99148	.99150	.99154	.99160	.99167	.99175	5.4
5.5	1.00000	.99494	.99343	.99266	.99224	.99200	.99187	.99182	.99182	.99185	.99190	.99197	.99205	.99213	5.5
5.6	1.00000	.99504	.99359	.99287	.99248	.99227	.99216	.99213	.99214	.99219	.99225	.99233	.99241	.99250	5.6
5.7	1.00000	.99514	.99375	.99307	.99272	.99253	.99244	.99243	.99243	.99245	.99251	.99258	.99266	.99276	5.7
5.8	1.00000	.99524	.99391	.99327	.99294	.99278	.99271	.99271	.99275	.99281	.99289	.99299	.99308	.99319	5.8
5.9	1.00000	.99533	.99406	.99346	.99316	.99302	.99297	.99298	.99303	.99311	.99320	.99329	.99340	.99350	5.9
6.0	1.00000	.99543	.99420	.99364	.99337	.99325	.99322	.99324	.99330	.99339	.99348	.99359	.99369	.99380	6.0



$u$	$p = -0.87$	$p = -0.86$	$p = -0.85$	$p = -0.84$	$p = -0.83$	$p = -0.82$	$p = -0.81$	$p = -0.80$	$p = -0.79$	$p = -0.78$	$p = -0.77$	$p = -0.76$	$p = -0.75$	$u$
.0	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.0
.1	.68789	.67109	.65483	.63909	.62383	.60904	.59467	.58073	.56717	.55399	.54117	.52870	.51656	.1
.2	.74971	.73616	.72300	.71021	.69776	.68562	.67379	.66225	.65097	.63996	.62919	.61865	.60834	.2
.3	.81714	.77572	.76462	.75380	.74326	.73297	.72291	.71308	.70345	.69402	.68478	.67572	.66683	.3
.4	.81392	.80409	.79453	.78520	.77611	.76722	.75853	.75002	.74168	.73350	.72548	.71760	.70985	.4
.5	.83463	.82606	.81771	.80957	.80164	.79388	.78629	.77885	.77156	.76440	.75738	.75047	.74368	.5
.6	.85139	.84384	.83649	.82934	.82235	.81553	.80885	.80230	.79589	.78959	.78340	.77732	.77133	.6
.7	.86536	.85867	.85216	.84582	.83964	.83361	.82770	.82192	.81624	.81067	.80520	.79982	.79452	.7
.8	.87725	.87129	.86550	.85986	.85437	.84901	.84377	.83863	.83360	.82866	.82380	.81903	.81433	.8
.9	.88753	.88220	.87703	.87201	.86711	.86233	.85766	.85309	.84861	.84422	.83990	.83566	.83148	.9
1.0	.89654	.89176	.88712	.88263	.87825	.87412	.86981	.86574	.86175	.85783	.85398	.85013	.84649	1.0
1.1	.90449	.90020	.89604	.89201	.88809	.88427	.88054	.87690	.87333	.86984	.86641	.86304	.85973	1.1
1.2	.91159	.90772	.90398	.90035	.89684	.89342	.89008	.88682	.88364	.88051	.87745	.87444	.87149	1.2
1.3	.91795	.91446	.91109	.90784	.90468	.90161	.89862	.89570	.89285	.89006	.88732	.88463	.88200	1.3
1.4	.92368	.92054	.91750	.91457	.91173	.90897	.90629	.90368	.90113	.89863	.89618	.89379	.89143	1.4
1.5	.92889	.92604	.92330	.92066	.91811	.91563	.91323	.91089	.90860	.90637	.90418	.90204	.89994	1.5
1.6	.93362	.93105	.92858	.92620	.92390	.92168	.91952	.91742	.91537	.91337	.91142	.90951	.90763	1.6
1.7	.93794	.93562	.93339	.93124	.92918	.92718	.92524	.92336	.92153	.91974	.91800	.91629	.91462	1.7
1.8	.94190	.93980	.93779	.93586	.93400	.93221	.93047	.92878	.92714	.92555	.92399	.92247	.92097	1.8
1.9	.94555	.94364	.94183	.94009	.93842	.93681	.93525	.93374	.93228	.93085	.92946	.92810	.92678	1.9
2.0	.94890	.94718	.94555	.94398	.94248	.94103	.93964	.93829	.93698	.93571	.93447	.93326	.93208	2.0
2.1	.95200	.95045	.94897	.94756	.94621	.94492	.94367	.94246	.94127	.94016	.93906	.93799	.93694	2.1
2.2	.95487	.95347	.95214	.95087	.94966	.94850	.94738	.94631	.94527	.94426	.94328	.94233	.94140	2.2
2.3	.95753	.95626	.95506	.95398	.95294	.95181	.95081	.94985	.94893	.94803	.94716	.94632	.94550	2.3
2.4	.96000	.95886	.95778	.95676	.95579	.95487	.95398	.95313	.95231	.95151	.95074	.95000	.94927	2.4
2.5	.96229	.96127	.96030	.95939	.95852	.95770	.95691	.95615	.95543	.95473	.95405	.95339	.95275	2.5
2.6	.96443	.96351	.96265	.96183	.96106	.96033	.95963	.95896	.95832	.95770	.95710	.95653	.95597	2.6
2.7	.96643	.96560	.96483	.96409	.96342	.96277	.96215	.96156	.96099	.96045	.95993	.95942	.95894	2.7
2.8	.96829	.96755	.96686	.96622	.96561	.96504	.96449	.96397	.96348	.96300	.96255	.96210	.96168	2.8
2.9	.97004	.96938	.96876	.96819	.96765	.96715	.96667	.96622	.96578	.96537	.96497	.96459	.96423	2.9
3.0	.97167	.97108	.97054	.97003	.96956	.96912	.96870	.96830	.96793	.96757	.96722	.96690	.96658	3.0
3.1	.97320	.97268	.97220	.97175	.97134	.97095	.97059	.97025	.96992	.96962	.96932	.96904	.96877	3.1
3.2	.97463	.97417	.97375	.97336	.97300	.97266	.97235	.97206	.97178	.97152	.97127	.97103	.97080	3.2
3.3	.97598	.97558	.97520	.97486	.97455	.97426	.97400	.97375	.97351	.97329	.97308	.97288	.97269	3.3
3.4	.97724	.97689	.97657	.97627	.97601	.97576	.97553	.97532	.97513	.97494	.97477	.97460	.97444	3.4
3.5	.97843	.97812	.97785	.97760	.97737	.97716	.97697	.97680	.97663	.97648	.97634	.97620	.97608	3.5
3.6	.97955	.97928	.97905	.97884	.97865	.97847	.97832	.97817	.97804	.97792	.97780	.97770	.97760	3.6
3.7	.98060	.98038	.98018	.98000	.97984	.97970	.97957	.97946	.97935	.97926	.97917	.97909	.97901	3.7
3.8	.98160	.98140	.98124	.98109	.98096	.98085	.98075	.98066	.98058	.98051	.98045	.98039	.98033	3.8
3.9	.98253	.98237	.98224	.98212	.98202	.98193	.98186	.98179	.98173	.98168	.98164	.98160	.98157	3.9
4.0	.98341	.98328	.98318	.98308	.98301	.98294	.98289	.98285	.98281	.98278	.98275	.98273	.98271	4.0
4.1	.98425	.98414	.98406	.98399	.98394	.98390	.98386	.98384	.98382	.98380	.98379	.98379	.98379	4.1
4.2	.98503	.98496	.98489	.98485	.98481	.98479	.98477	.98477	.98476	.98476	.98477	.98478	.98479	4.2
4.3	.98578	.98572	.98568	.98565	.98564	.98563	.98563	.98564	.98564	.98566	.98568	.98570	.98572	4.3
4.4	.98648	.98644	.98642	.98641	.98641	.98642	.98644	.98645	.98648	.98651	.98653	.98657	.98660	4.4
4.5	.98714	.98713	.98712	.98713	.98714	.98716	.98719	.98722	.98726	.98730	.98733	.98738	.98742	4.5
4.6	.98777	.98777	.98778	.98780	.98783	.98786	.98790	.98794	.98799	.98804	.98808	.98813	.98818	4.6
4.7	.98837	.98838	.98841	.98844	.98848	.98852	.98857	.98862	.98868	.98873	.98879	.98884	.98890	4.7
4.8	.98893	.98896	.98899	.98904	.98909	.98914	.98920	.98926	.98932	.98938	.98944	.98951	.98957	4.8
4.9	.98947	.98950	.98955	.98961	.98966	.98973	.98979	.98986	.98993	.98999	.99006	.99013	.99020	4.9
5.0	.98997	.99002	.99008	.99014	.99021	.99028	.99035	.99042	.99050	.99057	.99064	.99071	.99079	5.0
5.1	.99045	.99051	.99058	.99065	.99072	.99080	.99088	.99095	.99103	.99111	.99119	.99126	.99134	5.1
5.2	.99091	.99097	.99105	.99113	.99121	.99129	.99137	.99145	.99154	.99162	.99170	.99178	.99185	5.2
5.3	.99134	.99141	.99149	.99158	.99166	.99175	.99184	.99192	.99201	.99209	.99218	.99226	.99234	5.3
5.4	.99175	.99183	.99192	.99200	.99210	.99219	.99228	.99237	.99245	.99254	.99263	.99271	.99279	5.4
5.5	.99213	.99222	.99232	.99241	.99250	.99260	.99269	.99278	.99287	.99296	.99305	.99314	.99322	5.5
5.6	.99250	.99260	.99269	.99279	.99289	.99299	.99308	.99318	.99327	.99336	.99345	.99354	.99362	5.6
5.7	.99285	.99295	.99305	.99315	.99325	.99335	.99345	.99355	.99364	.99373	.99382	.99391	.99399	5.7
5.8	.99319	.99329	.99339	.99350	.99360	.99370	.99380	.99390	.99399	.99409	.99418	.99426	.99435	5.8
5.9	.99350	.99361	.99372	.99382	.99393	.99403	.99413	.99423	.99432	.99442	.99451	.99459	.99468	5.9
6.0	.99380	.99391	.99402	.99413	.99424	.99434	.99444	.99454	.99464	.99473	.99482	.99490	.99499	6.0





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