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TABLES OF SAMPLE SIZE FOR THE F-TEST
IN ONE WAY ANALYSIS OF VARIANCE DESIGNS

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Abstract

This paper presents a method for computing the value of N for which the usual non-central F -test will have a certain power. Extensive tables are computed and displayed.

Key words: F -test

power

sample size

number of replications

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This paper presents some tables of the power of the F-test in completely randomized experiments. The tables are entered with K , α , β and λ and give the smallest value of N for which the power is greater than $1 - \beta$; in addition the actual value of β is given, for this N and for the next smallest value of N .

Here K represents the number of treatments, α the probability of type I error, β the probability of type II error, N the number of replications, λ the non-centrality parameter defined by

$$\lambda = \frac{\sqrt{K \sum_{j=1}^K (u_j - \bar{u})^2}}{K\sigma^2},$$

where the u_j are the true treatment means, and

$$\bar{u} = \sum_{j=1}^K \frac{u_j}{K}.$$

We also have

$$\lambda\sigma = \sqrt{\frac{\sum (u_j - \bar{u})^2}{K}}.$$

Using this relation the alternative hypothesis may be specified as a percentage of the (unknown) variance of the experiment.

The relation between the usual non-centrality parameter ϕ and λ is $\lambda = \frac{\phi}{\sqrt{N}}$.

The tables cover $K = 2(1)13$; $\alpha = .05, .01$; $\beta = .3, .2, .1, .05, .01$;

$\lambda = 1(.05).05, .01$.

All of the references except 1, 7, 11, 12 and 15 give existing tables for the power of F. All except Feldt and Mahmoud (1958) are entered with a non-centrality parameter ϕ which is a function of N; this renders their use awkward if one is interested in finding N for a given K, λ, α, β . Furthermore, the Feldt and Mahmoud charts do not cover the low β low λ range.

The power of F was first tabled by Tang (1938). For a rigorous derivation of the computational formulas used in this paper, see Tang or Mann (1949) Chapter 6, or, for a summary, Abramowitz and Stegun (1964), pp. 947-948.

Since the power function depends on 5 parameters, tables can be entered in several different ways: this accounts for the large number of existing tables and charts; only the Feldt and Mahmoud charts serve the same purpose as the tables presented here, and they do not cover as wide a range of parameter values.

The tables and charts due to Tang (1938), Lehmer (1944), Pearson and Hartley (1951), Fox (1956), Duncan (1957) and Tiku (1967) are all tables of the power function, entered in various ways; Lachenbruch (1966) presents an extension of Tang and Tiku (1972) given an extension of Tiku (1967). Dasgupta (1968) presents a table of the non-centrality parameter whereas Kastenbaum, Hoel and Bowman (1970, 1), (1970,2) and Bowman (1972) give tables of the maximum standardized range.

Computational Methods

Let λ_0 denote the non-centrality parameter denoted by λ in Tang (1938) (λ as defined in Tang is different from λ as defined in this paper).

By equation (80) in Tang

$$\lambda_0 = \frac{N}{2\sigma^2} \sum_{j=1}^K (u_j - \bar{u})^2.$$

Hence

$$\lambda_0 = \frac{KN\lambda^2}{2}.$$

Now substituting this into (116) in Tang we get

$$e^{-\frac{NK\lambda^2}{2}} \sum_{i=0}^{\infty} \frac{(KN\lambda^2)^i}{i!2^i} I_x \left(\frac{K-1}{2} + i, \frac{NK-K}{2} \right) = \beta \quad (1)$$

where x is chosen such that

$$I_x \left(\frac{K-1}{2}, \frac{NK-K}{2} \right) = 1 - \alpha \quad (\text{see (114) in Tang}).$$

Here $I_x(a,b)$ represents the incomplete beta function:

$$I_x(a,b) = \frac{\int_0^x y^{a-1} (1-y)^{b-1} dy}{\int_0^1 y^{a-1} (1-y)^{b-1} dy} = \frac{\int_0^x y^{a-1} (1-y)^{b-1} dy}{\frac{\Gamma(a)\Gamma(b)}{\Gamma(a+b)}}$$

where $\Gamma(a) = \int_0^{\infty} t^{a-1} e^{-t} dt$, the gamma function.

Using the well known identities

$$I_x(a,b) = \frac{\Gamma(a+b)}{\Gamma(a+1)\Gamma(b)} x^a(1-x)^b + I_x(a+1, b) \quad (2)$$

(see 26.5.16, p. 944 in Abramowitz and Stegun (1964)) and

$$\Gamma(a+1) = a\Gamma(a) \quad (3)$$

(see 6.1.15, p. 256 in Abramowitz and Stegun)

(1) can be rewritten in recursive form:

$$e^{-\frac{KN\lambda^2}{2}} \sum_{i=0}^{\infty} E_i B_i = \beta \quad (4)$$

where

$$\begin{aligned} E_0 &= 1 & E_{i+1} &= \frac{KN\lambda^2}{2(i+1)} E_i \\ B_0 &= 1 - \alpha & B_{i+1} &= B_i - G_i \\ G_0 &= \frac{\Gamma(\frac{NK-1}{2}) x \frac{K-1}{2} (1-x)^{\frac{NK-K}{2}}}{\Gamma(\frac{K-1}{2} + 1) \Gamma(\frac{NK-K}{2})} & G_{i+1} &= \frac{(\frac{NK-1}{2} + i)x}{\frac{K-1}{2} + i + 1} G_i \end{aligned}$$

This is the expression that was actually used in the computations. Once x is

known, the preceding formulas make the computation of β straightforward.

To compute x we must solve

$$I_x \left(\frac{K-1}{2}, \frac{NK-K}{2} \right) = 1 - \alpha .$$

To do this we can use Newton's iterative method:

$$x^{(j+1)} = x^{(j)} - \frac{I_x^{(j)} \left(\frac{K-1}{2}, \frac{NK-K}{2} \right) - 1 + \alpha}{\left. \frac{d}{dx} \left[I_x \left(\frac{K-1}{2}, \frac{NK-K}{2} \right) \right] \right|_{x = x^{(j)}}} \quad (5)$$

If K is odd, then $\frac{K-1}{2}$ is an integer, say p .

$$\text{But } I_x(a,b) = \frac{\Gamma(b+1)}{\Gamma(b)\Gamma(1)} \int_0^x (1-y)^{b-1} dy = 1 - (1-x)^b$$

and by (2)

$$I_x(a+1, b) = I_x(a,b) - \frac{\Gamma(a+b)}{\Gamma(a+1)\Gamma(b)} x^a(1-x)^b .$$

Hence, by induction

$$I_x(p,b) = 1 - (1-x)^b \left[1 + \frac{bx}{1!} + \frac{(b+1)bx^2}{2!} + \dots + \frac{(b+p-2) \dots b}{(p-1)!} x^{p-1} \right] \quad (6)$$

If K is even, we have by 26.5.4, P. 944 in Abramowitz and Stegun:

$$I_x(a,b) = \frac{x^a(1-x)^b}{a\Gamma(a)\Gamma(b)} \left\{ 1 + \sum_{i=0}^{\infty} \frac{\Gamma(a+1) \Gamma(a+b+i)}{\Gamma(a+1+i)\Gamma(a+b)} x^{i+1} \right\} .$$

Using (3) this reduces to

$$I_x(a,b) = \frac{x^a(1-x)^b}{a\Gamma(a)\Gamma(b)} \left\{ 1 + \sum_{i=0}^{\infty} \frac{(a+b+i) \dots (a+b)}{(a+1+i) \dots (a+1)} x^{i+1} \right\} . \quad (7)$$

In either case (K even or odd) the derivative required in (5) can be computed from the series for the beta function, or more directly from the relation

$$\frac{d}{dx} \left[\int_0^x y^{a-1} (1-y)^{b-1} dy \right] = x^{a-1} (1-x)^{b-1} \cdot \quad (8)$$

In the actual computations, for K odd (6) was differentiated and that expression used to compute the derivative, while for K even (8) was used.

The initial guess for x was in all cases the solution for $K = 3$, that is $x = 1 - \exp \left[\frac{\log(\alpha)}{b} \right] = 1 - \exp \left[\frac{2 \log(\alpha)}{NK-K} \right]$.

For K even, terms were taken in (7) until they became less than 10^{-8} . At that point, the series was considered to have converged, and the value obtained was considered the value for $I_x(a,b)$. The iteration defined by (5) was continued until the increment (the last term on the right hand side of (5)) became less than 10^{-8} .

The values of x obtained in this manner agree in all decimal places with those given in Thompson (1941).

Given K , α , β and λ Newton's method could not be used to solve (1) for N , as only integer values of N are acceptable; instead direct brute force was used.

First observe that all the terms in (1) are positive, hence,

$$N \geq \frac{2 \log \left(\frac{1-\alpha}{\beta} \right)}{K\lambda^2} \quad (9)$$

Let N equal this and compute the value of (1) for the given K , α , λ . If it is larger than the given β , increment N and try again. If it converges to a value less than β , then this value of N is the smallest for which the power of F is greater than $1 - \beta$. The series (1) was considered to have converged when its terms became less than 10^{-6} (that is: let i denote the last term

taken; then in the notation of (4) $e^{-KN} \lambda^2 E_i B_i < 10^{-6}$. As a check, ten more terms were taken, and the value of the series at $i + 10$ was compared with the value at i . In no case does the difference exceed $2 \cdot 10^{-6}$, and in only 8 cases (all when $\lambda = .01$) did it exceed $7 \cdot 10^{-7}$.

In order to speed up the computation, N was actually incremented by 100 until (1) converged to a value less than the given β , then decremented by 100 and incremented by 1 as described above. Furthermore, to speed up the computation of G_0 in (4) note:

If K is odd, then

$$\Gamma\left(\frac{NK}{2} - \frac{K}{2}\right) = \Gamma\left(\frac{NK}{2} - p - \frac{1}{2}\right)$$

where p is an integer and by (3)

$$\Gamma\left(\frac{NK}{2} - \frac{1}{2}\right) = \left(\frac{NK}{2} - 1 - \frac{1}{2}\right) \cdots \left(\frac{NK}{2} - p - \frac{1}{2}\right) \Gamma\left(\frac{NK}{2} - p - \frac{1}{2}\right).$$

Hence,

$$G_0 = \frac{\left(\frac{NK}{2} - 1 - \frac{1}{2}\right) \cdots \left(\frac{NK}{2} - p - \frac{1}{2}\right)}{\Gamma\left(\frac{K-1}{2} + 1\right)} \times \frac{K-1}{2} (1-x)^{\frac{N-K}{2}}.$$

If K is even, let p, m be integers. Then

$$\Gamma\left[\frac{(N+m)K}{2} - \frac{1}{2}\right] = \Gamma\left(\frac{NK}{2} + \frac{mK}{2} - \frac{1}{2}\right) = \Gamma\left(\frac{NK}{2} + p - \frac{1}{2}\right);$$

similarly

$$\Gamma\left[\frac{(N+m)K}{2} - \frac{K}{2}\right] = \Gamma\left(\frac{NK}{2} + p - \frac{K}{2}\right).$$

Hence, by (3)

$$\frac{\Gamma\left[\frac{(N+m)K}{2} - \frac{1}{2}\right]}{\Gamma\left[\frac{(N+m)K-K}{2}\right]} = \frac{\left[\frac{(N+m)K}{2} - 1 - \frac{1}{2}\right] \cdots \left(\frac{NK}{2} - \frac{1}{2}\right) \Gamma\left(\frac{NK}{2} - \frac{1}{2}\right)}{\left[\frac{(N+m)K}{2} - 1 - \frac{K}{2}\right] \cdots \left(\frac{NK}{2} - \frac{K}{2}\right) \Gamma\left(\frac{NK}{2} - \frac{K}{2}\right)}.$$

To compute $\Gamma(a)$ first (3) was used to obtain an expression of the form

$$\Gamma(a) = (a-1)(a-2) \cdots (a-m) \Gamma(a-m)$$

where

$$1 \leq a - m < 2.$$

Then a polynomial approximation given in Hastings (1955) was used to compute $\Gamma(a-m)$.

The standard IBM double precision routines for log and exp were used.

All computations were carried out in FORTRAN on the 360/67 at M.I.T.

Double precision (56 bit mantissa, that is 16 digits of significance) was used throughout. The values of β given here were produced by truncation, not rounding. About 1 hour of computer time was required to produce the final set of tables.

Relation to Other Designs

As indicated in Feldt and Mahmoud (1958) the relation between λ and N is robust to changes in design, whenever $K(N-1) \geq 20$. So it would seem that for most purposes the present tables could be used even for other designs. If more accuracy is desired, the relations for ϕ^2 in other designs given in Duncan (1957), together with $\phi^2 = N\lambda^2$ for the present tables, may be used to determine the correct N (iteratively).

Examples

I. A factory has three machines that produce ball bearings. It is desired to test the hypothesis that the diameters of the ball bearings are the same for each machine. α is fixed at .05, β at .05. It is decided that any set of differences whose standard deviation $\left[\frac{\sum (u_j - \bar{u})^2}{K} \right]^{1/2}$ is less than .7 times the standard deviation of any individual machine should be detected. Thus, $\sigma\lambda = .7\sigma$, $\lambda = .7$. From the tables we obtain $N = 12$, $\beta = .04253$ and $N = 11$, $\beta = .06204$.

If costs can be attached to type II errors (accepting the hypothesis when false) and to the cost of testing any individual ball, then we can form a table: (for example, suppose the cost of a type II error is \$1,000 and the cost of testing any one bearing is \$10)

| N | β | expected loss | cost of experiment | total loss |
|----|---------|---------------|--------------------|------------|
| 9 | .12718 | \$127 | \$270 | \$397 |
| 10 | .08942 | \$ 89 | \$300 | \$389 |
| 11 | .06204 | \$ 62 | \$330 | \$392 |
| 12 | .04253 | \$ 42 | \$360 | \$402 |

Thus, it would seem that N = 10 is the best choice.

II. Same situation as above, but suppose that there are only two machines, and it is desired to be able to detect at the 5% level (i.e., with a probability of being wrong less than .05) differences of 10 mm in the diameter of the ball bearings between the population means. If we know from past experience that the variance of the diameters of the ball bearings produced by either machine is 100mm², then

$$\lambda = \sqrt{\frac{5^2 + 5^2}{2 \cdot 100}} = \sqrt{\frac{50}{2 \cdot 100}} = \sqrt{.25} = .5$$

from the tables we find N = 27, $\beta = .04992$ and N = 26, $\beta = .05756$.

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APPENDIX: TABLES OF SAMPLE SIZE

K = number of treatments
 α = probability of type I error
 β = probability of Type II error
 λ = non-centrality parameter
N = the number of replications

| <u>K</u> | <u>α</u> | <u>Page</u> |
|----------|----------------------------|-------------|
| 2 | 0.05 | 12 |
| 2 | 0.01 | 13 |
| 3 | 0.05 | 14 |
| 3 | 0.01 | 15 |
| 4 | 0.05 | 16 |
| 4 | 0.01 | 17 |
| 5 | 0.05 | 18 |
| 5 | 0.01 | 19 |
| 6 | 0.05 | 20 |
| 6 | 0.01 | 21 |
| 7 | 0.05 | 22 |
| 7 | 0.01 | 23 |
| 8 | 0.05 | 24 |
| 8 | 0.01 | 25 |
| 9 | 0.05 | 26 |
| 9 | 0.01 | 27 |
| 10 | 0.05 | 28 |
| 10 | 0.01 | 29 |
| 11 | 0.05 | 30 |
| 11 | 0.01 | 31 |
| 12 | 0.05 | 32 |
| 12 | 0.01 | 33 |
| 13 | 0.05 | 34 |
| 13 | 0.01 | 35 |

| K = 2 | | ALPHA = 0.05 | | | | | | | | | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 5 | 0.20945 | 6 | 0.12358 | 7 | 0.07092 | 8 | 0.03977 | 11 | 0.00629 | |
| | 4 | 0.34312 | 5 | 0.20945 | 6 | 0.12358 | 7 | 0.07092 | 10 | 0.01182 | |
| 0.95 | 5 | 0.25083 | 6 | 0.15793 | 7 | 0.09701 | 9 | 0.03448 | 12 | 0.00651 | |
| | 4 | 0.38652 | 5 | 0.25083 | 6 | 0.15793 | 8 | 0.05835 | 11 | 0.01150 | |
| 0.90 | 5 | 0.29625 | 6 | 0.19807 | 8 | 0.08317 | 10 | 0.03272 | 13 | 0.00736 | |
| | 4 | 0.43149 | 5 | 0.29625 | 7 | 0.12955 | 9 | 0.05253 | 12 | 0.01223 | |
| 0.85 | 6 | 0.24387 | 7 | 0.16901 | 9 | 0.07741 | 11 | 0.03369 | 14 | 0.00898 | |
| | 5 | 0.34517 | 6 | 0.24387 | 8 | 0.11521 | 10 | 0.05136 | 13 | 0.01407 | |
| 0.80 | 6 | 0.29490 | 8 | 0.15520 | 10 | 0.07762 | 12 | 0.03728 | 16 | 0.00783 | |
| | 5 | 0.39691 | 7 | 0.21548 | 9 | 0.11038 | 11 | 0.05404 | 15 | 0.01169 | |
| 0.75 | 7 | 0.26866 | 9 | 0.15238 | 11 | 0.08310 | 13 | 0.04388 | 18 | 0.00798 | |
| | 6 | 0.35041 | 8 | 0.20345 | 10 | 0.11302 | 12 | 0.06061 | 17 | 0.01134 | |
| 0.70 | 8 | 0.25971 | 10 | 0.15869 | 12 | 0.09405 | 15 | 0.04096 | 20 | 0.00931 | |
| | 7 | 0.32778 | 9 | 0.20386 | 11 | 0.12259 | 14 | 0.05434 | 19 | 0.01262 | |
| 0.65 | 9 | 0.26453 | 11 | 0.17370 | 14 | 0.08851 | 17 | 0.04325 | 23 | 0.00937 | |
| | 8 | 0.32312 | 10 | 0.21505 | 13 | 0.11139 | 16 | 0.05514 | 22 | 0.01218 | |
| 0.60 | 10 | 0.28159 | 12 | 0.19792 | 16 | 0.09280 | 20 | 0.04117 | 27 | 0.00898 | |
| | 9 | 0.33328 | 11 | 0.23665 | 15 | 0.11280 | 19 | 0.05067 | 26 | 0.01123 | |
| 0.55 | 12 | 0.26914 | 15 | 0.17162 | 19 | 0.09033 | 23 | 0.04573 | 32 | 0.00887 | |
| | 11 | 0.31049 | 14 | 0.20005 | 18 | 0.10647 | 22 | 0.05438 | 31 | 0.01071 | |
| 0.50 | 14 | 0.27658 | 17 | 0.19296 | 23 | 0.08750 | 27 | 0.04992 | 38 | 0.00959 | |
| | 13 | 0.31328 | 16 | 0.21860 | 22 | 0.10028 | 26 | 0.05756 | 37 | 0.01121 | |
| 0.45 | 17 | 0.27942 | 21 | 0.18788 | 27 | 0.09936 | 34 | 0.04491 | 47 | 0.00921 | |
| | 16 | 0.30731 | 20 | 0.20796 | 26 | 0.11083 | 33 | 0.05045 | 46 | 0.01044 | |
| 0.40 | 21 | 0.28444 | 26 | 0.19251 | 34 | 0.09849 | 42 | 0.04817 | 59 | 0.00941 | |
| | 20 | 0.30659 | 25 | 0.20854 | 33 | 0.10739 | 41 | 0.05279 | 58 | 0.01039 | |
| 0.35 | 27 | 0.28628 | 34 | 0.18835 | 44 | 0.09914 | 55 | 0.04667 | 76 | 0.00997 | |
| | 26 | 0.30320 | 33 | 0.20030 | 43 | 0.10592 | 54 | 0.05006 | 75 | 0.01076 | |
| 0.30 | 36 | 0.29096 | 45 | 0.19630 | 60 | 0.09688 | 74 | 0.04789 | 104 | 0.00947 | |
| | 35 | 0.30346 | 44 | 0.20532 | 59 | 0.10172 | 73 | 0.05043 | 103 | 0.01062 | |
| 0.25 | 51 | 0.29438 | 64 | 0.19854 | 86 | 0.09676 | 105 | 0.04987 | 148 | 0.00997 | |
| | 50 | 0.30310 | 63 | 0.20483 | 85 | 0.10010 | 104 | 0.05168 | 147 | 0.01037 | |
| 0.20 | 79 | 0.29511 | 100 | 0.19635 | 133 | 0.09851 | 164 | 0.04931 | 231 | 0.00990 | |
| | 78 | 0.30068 | 99 | 0.20032 | 132 | 0.10067 | 163 | 0.05046 | 230 | 0.01015 | |
| 0.15 | 139 | 0.29724 | 176 | 0.19862 | 235 | 0.09934 | 290 | 0.04982 | 410 | 0.00989 | |
| | 138 | 0.30038 | 175 | 0.20086 | 234 | 0.10056 | 289 | 0.05047 | 409 | 0.01003 | |
| 0.10 | 310 | 0.29938 | 394 | 0.19940 | 527 | 0.09963 | 651 | 0.04991 | 920 | 0.00997 | |
| | 309 | 0.30078 | 393 | 0.20040 | 526 | 0.10018 | 650 | 0.05019 | 919 | 0.01003 | |
| 0.05 | 1236 | 0.29977 | 1571 | 0.19993 | 2103 | 0.09992 | 2600 | 0.04999 | 3676 | 0.00999 | |
| | 1235 | 0.30012 | 1570 | 0.20018 | 2102 | 0.10005 | 2599 | 0.05006 | 3675 | 0.01000 | |
| 0.01 | 30659 | 0.29999 | 39243 | 0.19999 | 52537 | 0.09999 | 64976 | 0.04999 | 91905 | 0.00999 | |
| | 30858 | 0.30000 | 39242 | 0.20000 | 52536 | 0.10000 | 64975 | 0.05000 | 91904 | 0.01000 | |

| K = 2 | | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|--------|---------|--|
| BETA = | | 0.30 | | | | | | | | | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 7 | 0.26063 | 8 | 0.17358 | 10 | 0.07051 | 11 | 0.04334 | 14 | 0.00898 | |
| | 6 | 0.37738 | 7 | 0.26063 | 9 | 0.11210 | 10 | 0.07051 | 13 | 0.01544 | |
| 0.95 | 8 | 0.22167 | 9 | 0.15201 | 11 | 0.06676 | 12 | 0.04299 | 16 | 0.00636 | |
| | 7 | 0.31451 | 8 | 0.22167 | 10 | 0.10180 | 11 | 0.06676 | 15 | 0.01046 | |
| 0.90 | 8 | 0.27667 | 10 | 0.14218 | 11 | 0.06899 | 13 | 0.04574 | 17 | 0.00837 | |
| | 7 | 0.37276 | 9 | 0.20044 | 10 | 0.14218 | 12 | 0.06779 | 16 | 0.01302 | |
| 0.85 | 9 | 0.25718 | 10 | 0.19226 | 13 | 0.07325 | 15 | 0.03615 | 19 | 0.00784 | |
| | 8 | 0.33770 | 9 | 0.25718 | 12 | 0.10244 | 14 | 0.05174 | 18 | 0.01164 | |
| 0.80 | 10 | 0.25154 | 11 | 0.19468 | 14 | 0.09350 | 16 | 0.04513 | 21 | 0.00845 | |
| | 9 | 0.32138 | 10 | 0.25194 | 13 | 0.11195 | 15 | 0.06166 | 20 | 0.01198 | |
| 0.75 | 11 | 0.25873 | 13 | 0.16347 | 15 | 0.09947 | 18 | 0.04453 | 24 | 0.00757 | |
| | 10 | 0.32023 | 12 | 0.20671 | 14 | 0.12807 | 17 | 0.05862 | 23 | 0.01030 | |
| 0.70 | 12 | 0.27668 | 14 | 0.18698 | 17 | 0.09834 | 20 | 0.04898 | 27 | 0.00817 | |
| | 11 | 0.33229 | 13 | 0.22837 | 16 | 0.12264 | 19 | 0.06213 | 26 | 0.01068 | |
| 0.65 | 14 | 0.26030 | 16 | 0.18522 | 20 | 0.08799 | 23 | 0.04805 | 31 | 0.00823 | |
| | 13 | 0.30572 | 15 | 0.22622 | 19 | 0.10675 | 22 | 0.05902 | 30 | 0.01036 | |
| 0.60 | 16 | 0.26457 | 18 | 0.19851 | 23 | 0.09039 | 27 | 0.04543 | 36 | 0.00835 | |
| | 15 | 0.30338 | 17 | 0.22967 | 22 | 0.10654 | 26 | 0.05419 | 35 | 0.01017 | |
| 0.55 | 18 | 0.28696 | 22 | 0.17691 | 27 | 0.09083 | 32 | 0.04408 | 42 | 0.00909 | |
| | 17 | 0.32125 | 21 | 0.20055 | 26 | 0.10430 | 31 | 0.05114 | 41 | 0.01071 | |
| 0.50 | 21 | 0.29820 | 26 | 0.18159 | 32 | 0.09404 | 38 | 0.04604 | 50 | 0.00967 | |
| | 20 | 0.32711 | 25 | 0.20137 | 31 | 0.10538 | 37 | 0.05204 | 49 | 0.01108 | |
| 0.45 | 26 | 0.28736 | 31 | 0.19242 | 39 | 0.09490 | 46 | 0.04842 | 62 | 0.00897 | |
| | 25 | 0.31001 | 30 | 0.20907 | 38 | 0.10407 | 45 | 0.05346 | 61 | 0.01002 | |
| 0.40 | 32 | 0.29518 | 39 | 0.18958 | 49 | 0.09422 | 58 | 0.04753 | 77 | 0.00981 | |
| | 31 | 0.31332 | 38 | 0.20248 | 48 | 0.10136 | 57 | 0.05140 | 76 | 0.01070 | |
| 0.35 | 41 | 0.29885 | 50 | 0.19359 | 63 | 0.09677 | 75 | 0.04820 | 100 | 0.00984 | |
| | 40 | 0.31279 | 49 | 0.20357 | 62 | 0.10232 | 74 | 0.05118 | 99 | 0.01052 | |
| 0.30 | 56 | 0.29077 | 67 | 0.19678 | 85 | 0.09732 | 101 | 0.04921 | 136 | 0.00960 | |
| | 55 | 0.30076 | 66 | 0.20416 | 84 | 0.10139 | 100 | 0.05142 | 135 | 0.01008 | |
| 0.25 | 79 | 0.29695 | 96 | 0.19545 | 121 | 0.09916 | 145 | 0.04876 | 194 | 0.00997 | |
| | 78 | 0.30357 | 95 | 0.20053 | 120 | 0.10202 | 144 | 0.05027 | 193 | 0.01031 | |
| 0.20 | 122 | 0.29915 | 148 | 0.19886 | 188 | 0.09938 | 225 | 0.04936 | 303 | 0.00979 | |
| | 121 | 0.30365 | 147 | 0.20215 | 187 | 0.10120 | 224 | 0.05033 | 302 | 0.01001 | |
| 0.15 | 216 | 0.29811 | 262 | 0.19852 | 333 | 0.09930 | 398 | 0.04974 | 536 | 0.00996 | |
| | 215 | 0.30063 | 261 | 0.20036 | 332 | 0.10032 | 397 | 0.05029 | 535 | 0.01008 | |
| 0.10 | 483 | 0.29913 | 586 | 0.19967 | 746 | 0.09983 | 893 | 0.04984 | 1204 | 0.00995 | |
| | 482 | 0.30026 | 585 | 0.20049 | 745 | 0.10028 | 892 | 0.05008 | 1203 | 0.01001 | |
| 0.05 | 1924 | 0.29998 | 2338 | 0.19988 | 2978 | 0.09994 | 3565 | 0.04996 | 4808 | 0.00999 | |
| | 1923 | 0.30026 | 2337 | 0.20009 | 2977 | 0.10005 | 3564 | 0.05002 | 4807 | 0.01001 | |
| 0.01 | 48055 | 0.29999 | 58393 | 0.19999 | 74390 | 0.09999 | 89064 | 0.04999 | 120158 | 0.00999 | |
| | 48054 | 0.30000 | 58392 | 0.20000 | 74389 | 0.10000 | 89063 | 0.05000 | 120157 | 0.01000 | |

| K = 3 | | ALPHA = 0.05 | | | | | | | | | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 4 | 0.25685 | 5 | 0.13040 | 6 | 0.06221 | 7 | 0.02825 | 9 | 0.00519 | |
| | 3 | 0.46587 | 4 | 0.25685 | 5 | 0.13040 | 6 | 0.06221 | 8 | 0.01232 | |
| 0.95 | 5 | 0.16804 | 5 | 0.16804 | 6 | 0.08818 | 7 | 0.04426 | 10 | 0.00458 | |
| | 4 | 0.30299 | 4 | 0.30299 | 5 | 0.16804 | 6 | 0.08818 | 9 | 0.01004 | |
| 0.90 | 5 | 0.21200 | 6 | 0.12143 | 7 | 0.06685 | 8 | 0.03560 | 10 | 0.00931 | |
| | 4 | 0.35247 | 5 | 0.21200 | 6 | 0.12143 | 7 | 0.06685 | 9 | 0.01843 | |
| 0.85 | 5 | 0.26197 | 6 | 0.16258 | 7 | 0.09744 | 9 | 0.03217 | 11 | 0.00972 | |
| | 4 | 0.40451 | 5 | 0.26197 | 6 | 0.16258 | 8 | 0.05670 | 10 | 0.01786 | |
| 0.80 | 6 | 0.21179 | 7 | 0.13715 | 8 | 0.08654 | 10 | 0.03232 | 13 | 0.00650 | |
| | 5 | 0.31726 | 6 | 0.21179 | 7 | 0.13715 | 9 | 0.05340 | 12 | 0.01125 | |
| 0.75 | 6 | 0.26864 | 7 | 0.18658 | 9 | 0.08441 | 11 | 0.03563 | 14 | 0.00884 | |
| | 5 | 0.37684 | 6 | 0.26864 | 8 | 0.12672 | 10 | 0.05526 | 13 | 0.01424 | |
| 0.70 | 7 | 0.24561 | 8 | 0.17822 | 10 | 0.08942 | 12 | 0.04253 | 16 | 0.00850 | |
| | 6 | 0.33210 | 7 | 0.24561 | 9 | 0.12718 | 11 | 0.06204 | 15 | 0.01288 | |
| 0.65 | 8 | 0.24107 | 9 | 0.18295 | 12 | 0.07451 | 14 | 0.03899 | 18 | 0.00975 | |
| | 7 | 0.31321 | 8 | 0.24107 | 11 | 0.10159 | 13 | 0.05413 | 17 | 0.01392 | |
| 0.60 | 9 | 0.25165 | 10 | 0.19955 | 13 | 0.09430 | 16 | 0.04170 | 21 | 0.00955 | |
| | 8 | 0.31407 | 9 | 0.25165 | 12 | 0.12206 | 15 | 0.05509 | 20 | 0.01296 | |
| 0.55 | 10 | 0.27628 | 12 | 0.18745 | 15 | 0.09985 | 19 | 0.04009 | 25 | 0.00904 | |
| | 9 | 0.33167 | 11 | 0.22838 | 14 | 0.12389 | 18 | 0.05071 | 24 | 0.01169 | |
| 0.50 | 12 | 0.27059 | 14 | 0.19658 | 18 | 0.09843 | 22 | 0.04652 | 30 | 0.00910 | |
| | 11 | 0.31504 | 13 | 0.23120 | 17 | 0.11771 | 21 | 0.05637 | 29 | 0.01125 | |
| 0.45 | 14 | 0.29000 | 17 | 0.19734 | 22 | 0.09801 | 27 | 0.04567 | 37 | 0.00877 | |
| | 13 | 0.32746 | 16 | 0.22508 | 21 | 0.11332 | 26 | 0.05362 | 36 | 0.01042 | |
| 0.40 | 18 | 0.27429 | 22 | 0.18192 | 28 | 0.09316 | 34 | 0.04527 | 46 | 0.00946 | |
| | 17 | 0.30237 | 21 | 0.20218 | 27 | 0.10456 | 33 | 0.05122 | 45 | 0.01083 | |
| 0.35 | 22 | 0.29967 | 28 | 0.18812 | 36 | 0.09526 | 44 | 0.04565 | 60 | 0.00923 | |
| | 21 | 0.32244 | 27 | 0.20389 | 35 | 0.10406 | 43 | 0.05018 | 59 | 0.01024 | |
| 0.30 | 30 | 0.29266 | 37 | 0.19650 | 48 | 0.09922 | 59 | 0.04733 | 81 | 0.00944 | |
| | 29 | 0.30897 | 36 | 0.20840 | 47 | 0.10585 | 58 | 0.05072 | 80 | 0.01019 | |
| 0.25 | 43 | 0.28984 | 53 | 0.19511 | 69 | 0.09775 | 84 | 0.04851 | 116 | 0.00954 | |
| | 42 | 0.30101 | 52 | 0.20326 | 68 | 0.10226 | 83 | 0.05090 | 115 | 0.01066 | |
| 0.20 | 66 | 0.29418 | 82 | 0.19634 | 107 | 0.09844 | 130 | 0.04953 | 180 | 0.00976 | |
| | 65 | 0.30137 | 81 | 0.20155 | 106 | 0.10131 | 129 | 0.05108 | 179 | 0.01010 | |
| 0.15 | 116 | 0.29637 | 144 | 0.19923 | 189 | 0.09914 | 230 | 0.04981 | 318 | 0.00999 | |
| | 115 | 0.30042 | 143 | 0.20218 | 188 | 0.10076 | 229 | 0.05068 | 317 | 0.01018 | |
| 0.10 | 258 | 0.29950 | 323 | 0.19889 | 423 | 0.09985 | 516 | 0.04991 | 715 | 0.00993 | |
| | 257 | 0.30131 | 322 | 0.20020 | 422 | 0.10057 | 515 | 0.05029 | 714 | 0.01001 | |
| 0.05 | 1028 | 0.29995 | 1286 | 0.19987 | 1689 | 0.09985 | 2061 | 0.04991 | 2854 | 0.00999 | |
| | 1027 | 0.30040 | 1285 | 0.20020 | 1688 | 0.10003 | 2060 | 0.05000 | 2853 | 0.01001 | |
| 0.01 | 25674 | 0.29999 | 32117 | 0.19999 | 42181 | 0.09999 | 51479 | 0.04999 | 71321 | 0.00999 | |
| | 25673 | 0.30001 | 32116 | 0.20000 | 42180 | 0.10000 | 51478 | 0.05000 | 71320 | 0.01000 | |

| K = 3 | | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| 1.00 | 6 | 0.23352 | 7 | 0.13269 | 8 | 0.07122 | 9 | 0.03644 | 11 | 0.00848 | |
| | 5 | 0.38359 | 6 | 0.23352 | 7 | 0.13269 | 8 | 0.07122 | 10 | 0.01790 | |
| 0.95 | 6 | 0.28576 | 7 | 0.17873 | 9 | 0.05884 | 10 | 0.03184 | 12 | 0.00849 | |
| | 5 | 0.44206 | 6 | 0.28576 | 8 | 0.10478 | 9 | 0.05884 | 11 | 0.01668 | |
| 0.90 | 7 | 0.23370 | 8 | 0.14851 | 9 | 0.09082 | 11 | 0.03067 | 13 | 0.00945 | |
| | 6 | 0.35164 | 7 | 0.23370 | 8 | 0.14851 | 10 | 0.05372 | 12 | 0.01728 | |
| 0.85 | 7 | 0.29691 | 9 | 0.13416 | 10 | 0.06609 | 12 | 0.03289 | 15 | 0.00667 | |
| | 6 | 0.41772 | 8 | 0.20298 | 9 | 0.13416 | 11 | 0.05383 | 14 | 0.01156 | |
| 0.80 | 8 | 0.26783 | 9 | 0.18987 | 11 | 0.08857 | 13 | 0.03804 | 16 | 0.00947 | |
| | 7 | 0.36693 | 8 | 0.26783 | 10 | 0.13118 | 12 | 0.05859 | 15 | 0.01528 | |
| 0.75 | 9 | 0.25785 | 10 | 0.19032 | 12 | 0.05787 | 14 | 0.04715 | 18 | 0.00937 | |
| | 8 | 0.34167 | 9 | 0.25785 | 11 | 0.13771 | 13 | 0.06844 | 17 | 0.01427 | |
| 0.70 | 10 | 0.26340 | 12 | 0.15360 | 14 | 0.08466 | 16 | 0.04450 | 21 | 0.00754 | |
| | 9 | 0.33654 | 11 | 0.20270 | 13 | 0.11477 | 15 | 0.06172 | 20 | 0.01093 | |
| 0.65 | 11 | 0.28306 | 13 | 0.17585 | 16 | 0.08404 | 18 | 0.04837 | 24 | 0.00777 | |
| | 10 | 0.34847 | 12 | 0.22697 | 15 | 0.10935 | 17 | 0.06402 | 23 | 0.01070 | |
| 0.60 | 13 | 0.26406 | 15 | 0.17881 | 18 | 0.09397 | 21 | 0.04654 | 27 | 0.00990 | |
| | 12 | 0.31664 | 14 | 0.21822 | 17 | 0.11728 | 20 | 0.05918 | 26 | 0.01296 | |
| 0.55 | 15 | 0.27075 | 17 | 0.15595 | 21 | 0.09599 | 25 | 0.04362 | 32 | 0.00951 | |
| | 14 | 0.31524 | 16 | 0.23104 | 20 | 0.11561 | 24 | 0.05346 | 31 | 0.01193 | |
| 0.50 | 17 | 0.29598 | 21 | 0.17593 | 25 | 0.09706 | 30 | 0.04297 | 39 | 0.00846 | |
| | 16 | 0.33904 | 20 | 0.20228 | 24 | 0.11320 | 29 | 0.05087 | 38 | 0.01022 | |
| 0.45 | 21 | 0.28834 | 25 | 0.18730 | 31 | 0.09098 | 36 | 0.04706 | 47 | 0.00953 | |
| | 20 | 0.31888 | 24 | 0.20948 | 30 | 0.10319 | 35 | 0.05389 | 46 | 0.01110 | |
| 0.40 | 26 | 0.29195 | 31 | 0.19097 | 38 | 0.09866 | 45 | 0.04778 | 59 | 0.00960 | |
| | 25 | 0.31611 | 30 | 0.20860 | 37 | 0.10889 | 44 | 0.05318 | 58 | 0.01083 | |
| 0.35 | 34 | 0.28261 | 40 | 0.19105 | 49 | 0.09979 | 58 | 0.04895 | 77 | 0.00924 | |
| | 33 | 0.30057 | 39 | 0.20444 | 48 | 0.10762 | 57 | 0.05313 | 76 | 0.01013 | |
| 0.30 | 45 | 0.29188 | 53 | 0.19960 | 67 | 0.09505 | 79 | 0.04714 | 104 | 0.00939 | |
| | 44 | 0.30530 | 52 | 0.20971 | 66 | 0.10051 | 78 | 0.05008 | 103 | 0.01005 | |
| 0.25 | 64 | 0.29292 | 76 | 0.19709 | 95 | 0.09803 | 112 | 0.04932 | 148 | 0.00988 | |
| | 63 | 0.30221 | 75 | 0.20400 | 94 | 0.10190 | 111 | 0.05143 | 147 | 0.01036 | |
| 0.20 | 98 | 0.29960 | 118 | 0.19655 | 147 | 0.09941 | 174 | 0.04949 | 230 | 0.00999 | |
| | 97 | 0.30562 | 117 | 0.20094 | 146 | 0.10190 | 173 | 0.05084 | 229 | 0.01030 | |
| 0.15 | 173 | 0.29966 | 208 | 0.19797 | 260 | 0.09959 | 308 | 0.04959 | 408 | 0.00994 | |
| | 172 | 0.30304 | 207 | 0.20044 | 259 | 0.10099 | 307 | 0.05035 | 407 | 0.01011 | |
| 0.10 | 388 | 0.29865 | 465 | 0.19914 | 583 | 0.09964 | 690 | 0.04995 | 916 | 0.00995 | |
| | 387 | 0.30014 | 464 | 0.20025 | 582 | 0.10026 | 689 | 0.05029 | 915 | 0.01002 | |
| 0.05 | 1544 | 0.29992 | 1853 | 0.19980 | 2326 | 0.09985 | 2755 | 0.04998 | 3657 | 0.00999 | |
| | 1543 | 0.30029 | 1852 | 0.20008 | 2325 | 0.10001 | 2754 | 0.05007 | 3656 | 0.01001 | |
| 0.01 | 3855E | 0.29999 | 46271 | 0.19999 | 58091 | 0.09999 | 68835 | 0.04999 | 91384 | 0.00999 | |
| | 38557 | 0.30001 | 46270 | 0.20000 | 58090 | 0.10000 | 68834 | 0.05000 | 91383 | 0.01000 | |

| K = 4 | | ALPHA = 0.05 | | | | | | | | | |
|--------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------|--|------|--|------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 4 0.17756 3 0.38430 | 4 0.17756 3 0.38430 | 5 0.07297 4 0.17756 | 6 0.02746 5 0.07297 | 7 0.00964 6 0.02746 | | | | | | |
| 0.95 | 4 0.22148 3 0.43169 | 5 0.10246 4 0.22148 | 6 0.04381 5 0.10246 | 6 0.04381 5 0.10246 | 8 0.00671 7 0.01759 | | | | | | |
| 0.90 | 4 0.27091 3 0.47997 | 5 0.13970 4 0.27091 | 6 0.06718 5 0.13970 | 7 0.03054 6 0.06718 | 9 0.00552 8 0.01325 | | | | | | |
| 0.85 | 5 0.18508 4 0.32512 | 5 0.18508 4 0.32512 | 6 0.09911 5 0.18508 | 8 0.02467 7 0.05049 | 10 0.00532 9 0.01164 | | | | | | |
| 0.80 | 5 0.23846 4 0.38311 | 6 0.14078 5 0.23846 | 7 0.07957 6 0.14078 | 8 0.04335 7 0.07957 | 11 0.00589 10 0.01175 | | | | | | |
| 0.75 | 5 0.29906 4 0.44357 | 6 0.19278 5 0.29906 | 8 0.07198 7 0.11969 | 9 0.04210 8 0.07198 | 12 0.00736 11 0.01343 | | | | | | |
| 0.70 | 6 0.25480 5 0.36549 | 7 0.17208 6 0.25480 | 9 0.07256 8 0.11308 | 10 0.04558 9 0.07256 | 14 0.00599 13 0.01017 | | | | | | |
| 0.65 | 7 0.23684 6 0.32552 | 8 0.16841 7 0.23684 | 10 0.08033 9 0.11736 | 12 0.03591 11 0.05410 | 15 0.00974 14 0.01523 | | | | | | |
| 0.60 | 8 0.23826 7 0.31265 | 9 0.17857 8 0.23826 | 11 0.09603 10 0.13184 | 13 0.04916 12 0.06909 | 18 0.00778 17 0.01144 | | | | | | |
| 0.55 | 9 0.25625 8 0.32099 | 11 0.15764 10 0.20210 | 13 0.09310 12 0.12171 | 16 0.03967 15 0.05312 | 21 0.00837 20 0.01155 | | | | | | |
| 0.50 | 10 0.29031 9 0.34789 | 12 0.19704 11 0.24014 | 16 0.08327 15 0.10427 | 19 0.04104 18 0.05222 | 25 0.00881 24 0.01150 | | | | | | |
| 0.45 | 12 0.29446 11 0.34094 | 15 0.18349 14 0.21595 | 19 0.09140 18 0.10949 | 23 0.04279 22 0.05200 | 31 0.00811 30 0.01008 | | | | | | |
| 0.40 | 15 0.29127 14 0.32727 | 19 0.17659 18 0.20109 | 24 0.08845 23 0.10209 | 28 0.04669 27 0.05671 | 38 0.00957 37 0.01135 | | | | | | |
| 0.35 | 19 0.29858 18 0.32634 | 24 0.18569 23 0.20497 | 30 0.09911 29 0.11047 | 37 0.04462 36 0.05020 | 49 0.00999 48 0.01137 | | | | | | |
| 0.30 | 26 0.28867 25 0.30840 | 32 0.18980 31 0.20406 | 41 0.09495 40 0.10289 | 49 0.04865 48 0.05302 | 67 0.00937 66 0.01031 | | | | | | |
| 0.25 | 37 0.28862 36 0.30221 | 45 0.19601 44 0.20608 | 58 0.09819 57 0.10380 | 70 0.04900 69 0.05202 | 96 0.00939 95 0.01004 | | | | | | |
| 0.20 | 56 0.29945 55 0.30833 | 70 0.19445 69 0.20080 | 90 0.09842 89 0.10199 | 109 0.04866 108 0.05056 | 148 0.00999 147 0.01042 | | | | | | |
| 0.15 | 99 0.29839 98 0.30335 | 123 0.19684 122 0.20043 | 159 0.09888 158 0.10088 | 192 0.04973 191 0.05082 | 263 0.00983 262 0.01007 | | | | | | |
| 0.10 | 221 0.29953 220 0.30173 | 274 0.19926 273 0.20087 | 356 0.09934 355 0.10023 | 431 0.04963 430 0.05010 | 589 0.00999 588 0.01010 | | | | | | |
| 0.05 | 861 0.29956 880 0.30011 | 1092 0.19969 1091 0.20009 | 1419 0.09980 1418 0.10002 | 1718 0.04999 1717 0.05011 | 2354 0.00997 2353 0.01000 | | | | | | |
| 0.01 | 21981 0.29998 21980 0.30000 | 27256 0.19999 27255 0.20001 | 35429 0.09999 35428 0.10000 | 42927 0.04999 42926 0.05000 | 58815 0.00999 58814 0.01000 | | | | | | |

| K = 4 | | ALPHA = 0.01 | | | | | | | | | | | | | | | | | | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | | | | | | | | | | |
| LAMBDA | | | | | | | | | | | | | | | | | | | | |
| 1.00 | 5 | 0.25902 | 4 | 0.46251 | 6 | 0.12916 | 5 | 0.25902 | 7 | 0.05868 | 6 | 0.12916 | 8 | 0.02470 | 7 | 0.05868 | 9 | 0.00975 | 8 | 0.02470 |
| 0.95 | 6 | 0.17640 | 5 | 0.31875 | 6 | 0.17640 | 5 | 0.31875 | 7 | 0.08986 | 6 | 0.17640 | 8 | 0.04275 | 7 | 0.08986 | 10 | 0.00820 | 9 | 0.01919 |
| 0.90 | 6 | 0.23325 | 5 | 0.38354 | 7 | 0.13190 | 6 | 0.23325 | 8 | 0.07017 | 7 | 0.13190 | 9 | 0.03545 | 8 | 0.07017 | 11 | 0.00796 | 10 | 0.01713 |
| 0.85 | 6 | 0.29891 | 5 | 0.45165 | 7 | 0.18575 | 6 | 0.29891 | 9 | 0.06155 | 8 | 0.10941 | 10 | 0.03328 | 9 | 0.06155 | 12 | 0.00879 | 11 | 0.01737 |
| 0.80 | 7 | 0.25133 | 6 | 0.37174 | 8 | 0.16224 | 7 | 0.25133 | 10 | 0.06024 | 9 | 0.10061 | 11 | 0.03496 | 10 | 0.06024 | 14 | 0.00585 | 13 | 0.01087 |
| 0.75 | 8 | 0.22922 | 7 | 0.32728 | 9 | 0.15509 | 8 | 0.22922 | 11 | 0.06501 | 10 | 0.10178 | 12 | 0.04052 | 11 | 0.06501 | 15 | 0.00866 | 14 | 0.01476 |
| 0.70 | 9 | 0.22595 | 8 | 0.30917 | 10 | 0.16089 | 9 | 0.22595 | 12 | 0.07623 | 11 | 0.11192 | 14 | 0.03344 | 13 | 0.05093 | 17 | 0.00864 | 16 | 0.01376 |
| 0.65 | 10 | 0.23856 | 9 | 0.31190 | 11 | 0.17891 | 10 | 0.23856 | 13 | 0.09551 | 12 | 0.13180 | 15 | 0.04800 | 14 | 0.06818 | 20 | 0.00696 | 19 | 0.01046 |
| 0.60 | 11 | 0.26643 | 10 | 0.33283 | 13 | 0.16349 | 12 | 0.21014 | 15 | 0.09536 | 14 | 0.12560 | 18 | 0.03921 | 17 | 0.05325 | 23 | 0.00750 | 22 | 0.01060 |
| 0.55 | 13 | 0.25652 | 12 | 0.31023 | 15 | 0.17016 | 14 | 0.20993 | 18 | 0.08602 | 17 | 0.10886 | 21 | 0.04064 | 20 | 0.05253 | 27 | 0.00770 | 26 | 0.01029 |
| 0.50 | 15 | 0.27419 | 14 | 0.32011 | 17 | 0.19696 | 16 | 0.23318 | 21 | 0.09430 | 20 | 0.11434 | 25 | 0.04150 | 24 | 0.05132 | 32 | 0.00840 | 31 | 0.01066 |
| 0.45 | 16 | 0.28026 | 17 | 0.31762 | 21 | 0.18729 | 20 | 0.21517 | 26 | 0.08821 | 25 | 0.10330 | 30 | 0.04540 | 29 | 0.05385 | 39 | 0.00866 | 38 | 0.01052 |
| 0.40 | 22 | 0.29145 | 21 | 0.32148 | 26 | 0.19124 | 25 | 0.21337 | 32 | 0.09412 | 31 | 0.10654 | 37 | 0.04911 | 36 | 0.05615 | 49 | 0.00863 | 48 | 0.01006 |
| 0.35 | 26 | 0.29789 | 27 | 0.32104 | 33 | 0.19970 | 32 | 0.21704 | 41 | 0.09733 | 40 | 0.10699 | 48 | 0.04851 | 47 | 0.05377 | 63 | 0.00921 | 62 | 0.01035 |
| 0.30 | 36 | 0.29111 | 37 | 0.30773 | 45 | 0.19233 | 44 | 0.20460 | 55 | 0.09927 | 54 | 0.10641 | 65 | 0.04782 | 64 | 0.05159 | 85 | 0.00939 | 84 | 0.01024 |
| 0.25 | 54 | 0.29208 | 55 | 0.30358 | 64 | 0.19371 | 63 | 0.20222 | 79 | 0.09720 | 78 | 0.10203 | 93 | 0.04774 | 92 | 0.05032 | 121 | 0.00983 | 120 | 0.01044 |
| 0.20 | 83 | 0.29622 | 82 | 0.30362 | 99 | 0.19475 | 98 | 0.20018 | 122 | 0.09913 | 121 | 0.10225 | 144 | 0.04856 | 143 | 0.05023 | 188 | 0.00993 | 187 | 0.01032 |
| 0.15 | 146 | 0.29806 | 145 | 0.30223 | 174 | 0.19746 | 173 | 0.20053 | 216 | 0.09875 | 215 | 0.10049 | 254 | 0.04939 | 253 | 0.05033 | 333 | 0.00996 | 332 | 0.01017 |
| 0.10 | 326 | 0.29939 | 325 | 0.30125 | 386 | 0.19980 | 387 | 0.20118 | 483 | 0.09969 | 482 | 0.10046 | 569 | 0.04969 | 568 | 0.05011 | 748 | 0.00991 | 747 | 0.01000 |
| 0.05 | 1299 | 0.29974 | 1298 | 0.30020 | 1548 | 0.19972 | 1547 | 0.20006 | 1927 | 0.09983 | 1926 | 0.10003 | 2269 | 0.04998 | 2268 | 0.05008 | 2984 | 0.00999 | 2983 | 0.01000 |
| 0.01 | 32427 | 0.29999 | 32426 | 0.30000 | 38646 | 0.19999 | 38645 | 0.20000 | 48120 | 0.09999 | 48119 | 0.10000 | 56688 | 0.04999 | 56687 | 0.05000 | 74566 | 0.00999 | 74565 | 0.01000 |

| K = 5 | | ALPHA = 0.05 | | | | | | | | | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 4 | 0.11857 | 4 | 0.11857 | 5 | 0.03892 | 5 | 0.03892 | 7 | 0.00306 | |
| | 3 | 0.31058 | 3 | 0.31058 | 4 | 0.11857 | 4 | 0.11857 | 6 | 0.01141 | |
| 0.95 | 4 | 0.15715 | 4 | 0.15715 | 5 | 0.05992 | 6 | 0.02064 | 7 | 0.00656 | |
| | 3 | 0.36044 | 3 | 0.36044 | 4 | 0.15715 | 5 | 0.05992 | 6 | 0.02064 | |
| 0.90 | 4 | 0.20300 | 5 | 0.08880 | 5 | 0.08880 | 6 | 0.03549 | 8 | 0.00462 | |
| | 3 | 0.41259 | 4 | 0.20300 | 4 | 0.20300 | 5 | 0.08880 | 7 | 0.01319 | |
| 0.85 | 4 | 0.25581 | 5 | 0.12682 | 6 | 0.05807 | 7 | 0.02493 | 9 | 0.00394 | |
| | 3 | 0.46609 | 4 | 0.25581 | 5 | 0.12682 | 6 | 0.05807 | 8 | 0.01014 | |
| 0.80 | 5 | 0.17468 | 5 | 0.17468 | 6 | 0.09049 | 7 | 0.04430 | 9 | 0.00927 | |
| | 4 | 0.31472 | 4 | 0.31472 | 5 | 0.17468 | 6 | 0.09049 | 8 | 0.02068 | |
| 0.75 | 5 | 0.23236 | 6 | 0.13453 | 7 | 0.07416 | 8 | 0.03923 | 10 | 0.00990 | |
| | 4 | 0.37839 | 5 | 0.23236 | 6 | 0.13453 | 7 | 0.07416 | 9 | 0.02002 | |
| 0.70 | 5 | 0.29889 | 6 | 0.19106 | 8 | 0.06932 | 9 | 0.03977 | 12 | 0.00645 | |
| | 4 | 0.44508 | 5 | 0.29889 | 7 | 0.11715 | 8 | 0.06932 | 11 | 0.01210 | |
| 0.65 | 6 | 0.25972 | 7 | 0.17498 | 9 | 0.07285 | 10 | 0.04533 | 13 | 0.00971 | |
| | 5 | 0.37239 | 6 | 0.25972 | 8 | 0.11440 | 9 | 0.07285 | 12 | 0.01652 | |
| 0.60 | 7 | 0.24770 | 8 | 0.17676 | 10 | 0.08450 | 12 | 0.03764 | 16 | 0.00633 | |
| | 6 | 0.33864 | 7 | 0.24770 | 9 | 0.12342 | 11 | 0.05665 | 15 | 0.01006 | |
| 0.55 | 8 | 0.25649 | 9 | 0.19396 | 12 | 0.07665 | 14 | 0.03877 | 18 | 0.00881 | |
| | 7 | 0.33324 | 8 | 0.25649 | 11 | 0.10589 | 13 | 0.05482 | 17 | 0.01293 | |
| 0.50 | 9 | 0.28389 | 11 | 0.17528 | 14 | 0.08323 | 16 | 0.04778 | 22 | 0.00767 | |
| | 8 | 0.35075 | 10 | 0.22690 | 13 | 0.10850 | 15 | 0.06331 | 21 | 0.01056 | |
| 0.45 | 11 | 0.27735 | 13 | 0.19148 | 17 | 0.08407 | 20 | 0.04270 | 26 | 0.00975 | |
| | 10 | 0.32582 | 12 | 0.23133 | 16 | 0.10423 | 19 | 0.05379 | 25 | 0.01260 | |
| 0.40 | 14 | 0.26404 | 16 | 0.19691 | 21 | 0.08774 | 25 | 0.04308 | 33 | 0.00906 | |
| | 13 | 0.30351 | 15 | 0.22856 | 20 | 0.10394 | 24 | 0.05171 | 32 | 0.01111 | |
| 0.35 | 17 | 0.29321 | 21 | 0.18778 | 27 | 0.08919 | 32 | 0.04526 | 43 | 0.00879 | |
| | 16 | 0.32536 | 20 | 0.21079 | 26 | 0.10154 | 31 | 0.05203 | 42 | 0.01027 | |
| 0.30 | 23 | 0.28825 | 28 | 0.19147 | 36 | 0.09263 | 43 | 0.04621 | 58 | 0.00897 | |
| | 22 | 0.31134 | 27 | 0.20842 | 35 | 0.10187 | 42 | 0.05119 | 57 | 0.01006 | |
| 0.25 | 32 | 0.29913 | 40 | 0.19022 | 51 | 0.09520 | 61 | 0.04786 | 82 | 0.00979 | |
| | 31 | 0.31546 | 39 | 0.20181 | 50 | 0.10168 | 60 | 0.05138 | 81 | 0.01059 | |
| 0.20 | 50 | 0.29357 | 61 | 0.19724 | 78 | 0.09991 | 94 | 0.04957 | 128 | 0.00958 | |
| | 49 | 0.30381 | 60 | 0.20481 | 77 | 0.10420 | 93 | 0.05137 | 127 | 0.01008 | |
| 0.15 | 88 | 0.29437 | 108 | 0.19598 | 138 | 0.09973 | 167 | 0.04877 | 226 | 0.00981 | |
| | 87 | 0.30011 | 107 | 0.20018 | 137 | 0.10211 | 166 | 0.05004 | 225 | 0.01009 | |
| 0.10 | 195 | 0.29897 | 240 | 0.19935 | 310 | 0.09900 | 373 | 0.04965 | 506 | 0.00997 | |
| | 194 | 0.30154 | 239 | 0.20123 | 309 | 0.10005 | 372 | 0.05021 | 505 | 0.01010 | |
| 0.05 | 776 | 0.29970 | 956 | 0.19989 | 1234 | 0.09982 | 1487 | 0.04995 | 2021 | 0.00998 | |
| | 775 | 0.30035 | 955 | 0.20036 | 1233 | 0.10009 | 1486 | 0.05009 | 2020 | 0.01001 | |
| 0.01 | 19366 | 0.29999 | 23872 | 0.19998 | 30811 | 0.09999 | 37145 | 0.04999 | 50488 | 0.00999 | |
| | 19365 | 0.30001 | 23871 | 0.20000 | 30810 | 0.10000 | 37144 | 0.05000 | 50487 | 0.01000 | |

| K = 5 BETA = LAMBDA | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|------|--|------|--|
| | 0.30 | | | | | | | | | |
| 1.00 | 5 0.16613 4 0.35731 | 5 0.16613 4 0.35731 | 6 0.06671 5 0.16613 | 7 0.02385 6 0.06671 | 8 0.00775 7 0.02385 | | | | | |
| 0.95 | 5 0.22001 4 0.42014 | 6 0.10124 5 0.22001 | 7 0.04198 6 0.10124 | 7 0.04198 6 0.10124 | 9 0.00566 8 0.01598 | | | | | |
| 0.90 | 5 0.28260 4 0.48495 | 6 0.14714 5 0.28260 | 7 0.06987 6 0.14714 | 8 0.03073 7 0.06987 | 10 0.00494 9 0.01267 | | | | | |
| 0.85 | 6 0.20511 5 0.35250 | 7 0.11013 6 0.20511 | 8 0.05526 7 0.11013 | 9 0.02617 8 0.05526 | 11 0.00509 10 0.01179 | | | | | |
| 0.80 | 6 0.27463 5 0.42754 | 7 0.16462 6 0.27463 | 8 0.09303 7 0.16462 | 9 0.04997 8 0.09303 | 12 0.00606 11 0.01269 | | | | | |
| 0.75 | 7 0.23387 6 0.35383 | 8 0.14697 7 0.23387 | 9 0.08838 8 0.14697 | 11 0.02859 10 0.05113 | 13 0.00818 12 0.01550 | | | | | |
| 0.70 | 8 0.21836 7 0.31644 | 9 0.14515 8 0.21836 | 10 0.09333 9 0.14515 | 12 0.03541 11 0.05626 | 15 0.00694 14 0.01219 | | | | | |
| 0.65 | 9 0.22205 8 0.30604 | 10 0.15668 9 0.22205 | 12 0.07250 11 0.10781 | 13 0.04776 12 0.07250 | 17 0.00754 16 0.01225 | | | | | |
| 0.60 | 10 0.24281 9 0.31757 | 11 0.18182 10 0.24281 | 13 0.09645 12 0.13359 | 15 0.04796 14 0.06852 | 20 0.00667 19 0.01012 | | | | | |
| 0.55 | 11 0.28085 10 0.34855 | 13 0.17391 12 0.22259 | 16 0.07687 15 0.10211 | 18 0.04221 17 0.05725 | 23 0.00806 22 0.01140 | | | | | |
| 0.50 | 13 0.28172 12 0.33741 | 15 0.19042 14 0.23276 | 18 0.09881 17 0.12400 | 21 0.04779 20 0.06132 | 27 0.00941 26 0.01251 | | | | | |
| 0.45 | 16 0.27020 15 0.31358 | 18 0.19664 17 0.23125 | 22 0.09694 21 0.11665 | 26 0.04404 25 0.05401 | 33 0.00944 32 0.01189 | | | | | |
| 0.40 | 20 0.26646 19 0.30005 | 23 0.18208 22 0.20754 | 28 0.08970 27 0.10404 | 32 0.04809 31 0.05644 | 42 0.00845 41 0.01016 | | | | | |
| 0.35 | 25 0.28422 24 0.31082 | 29 0.19390 28 0.21411 | 36 0.09130 35 0.10227 | 42 0.04452 41 0.05039 | 54 0.00900 53 0.01035 | | | | | |
| 0.30 | 33 0.29453 32 0.31439 | 39 0.19365 38 0.20833 | 48 0.09529 47 0.10355 | 56 0.04736 55 0.05185 | 72 0.00999 71 0.01107 | | | | | |
| 0.25 | 47 0.29354 46 0.30720 | 55 0.19933 54 0.20966 | 68 0.09825 67 0.10406 | 80 0.04750 79 0.05059 | 104 0.00935 103 0.01005 | | | | | |
| 0.20 | 72 0.29945 71 0.30827 | 86 0.19408 85 0.20051 | 106 0.09643 105 0.10006 | 123 0.04995 122 0.05200 | 161 0.00968 160 0.01014 | | | | | |
| 0.15 | 127 0.29926 126 0.30415 | 151 0.19713 150 0.20078 | 186 0.09929 185 0.10137 | 218 0.04953 217 0.05067 | 284 0.00998 283 0.01024 | | | | | |
| 0.10 | 284 0.29944 283 0.30163 | 337 0.19888 336 0.20051 | 417 0.09914 416 0.10006 | 488 0.04995 487 0.05045 | 638 0.00991 637 0.01002 | | | | | |
| 0.05 | 1131 0.29959 1130 0.30054 | 1342 0.19970 1341 0.20010 | 1661 0.09983 1660 0.10006 | 1948 0.04995 1947 0.05008 | 2545 0.00999 2544 0.01002 | | | | | |
| 0.01 | 28244 0.29997 28243 0.30000 | 33497 0.19998 33496 0.20000 | 41472 0.09999 41471 0.10000 | 48656 0.04999 48655 0.05000 | 63590 0.00999 63589 0.01000 | | | | | |

| K = 6 | | ALPHA = 0.05 | | | | | | | | | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LANE | LA | | | | | | | | | | |
| 1.00 | 3 | 0.24766 | 4 | 0.07740 | 4 | 0.07740 | 5 | 0.02011 | 6 | 0.00455 | |
| | 2 | 0.60552 | 3 | 0.24766 | 3 | 0.24766 | 4 | 0.07740 | 5 | 0.02011 | |
| 0.95 | 3 | 0.29758 | 4 | 0.10934 | 5 | 0.03409 | 5 | 0.03409 | 6 | 0.00939 | |
| | 2 | 0.64131 | 3 | 0.29758 | 4 | 0.10934 | 4 | 0.10934 | 5 | 0.03409 | |
| 0.90 | 4 | 0.14963 | 4 | 0.14963 | 5 | 0.05514 | 6 | 0.01819 | 7 | 0.00549 | |
| | 3 | 0.35140 | 3 | 0.35140 | 4 | 0.14963 | 5 | 0.05514 | 6 | 0.01819 | |
| 0.85 | 4 | 0.19854 | 4 | 0.19854 | 5 | 0.08519 | 6 | 0.03315 | 8 | 0.00402 | |
| | 3 | 0.40806 | 3 | 0.40806 | 4 | 0.19854 | 5 | 0.08519 | 7 | 0.01192 | |
| 0.80 | 4 | 0.25566 | 5 | 0.12587 | 6 | 0.05691 | 7 | 0.02401 | 8 | 0.00956 | |
| | 3 | 0.46633 | 4 | 0.25566 | 5 | 0.12587 | 6 | 0.05691 | 7 | 0.02401 | |
| 0.75 | 5 | 0.17812 | 5 | 0.17812 | 6 | 0.09219 | 7 | 0.04493 | 9 | 0.00923 | |
| | 4 | 0.31952 | 4 | 0.31992 | 5 | 0.17812 | 6 | 0.09219 | 8 | 0.02081 | |
| 0.70 | 5 | 0.24182 | 6 | 0.14119 | 7 | 0.07830 | 8 | 0.04156 | 11 | 0.00504 | |
| | 4 | 0.38553 | 5 | 0.24182 | 6 | 0.14119 | 7 | 0.07830 | 10 | 0.01050 | |
| 0.65 | 6 | 0.20485 | 7 | 0.12738 | 8 | 0.07632 | 9 | 0.04427 | 12 | 0.00736 | |
| | 5 | 0.31556 | 6 | 0.20485 | 7 | 0.12738 | 8 | 0.07632 | 11 | 0.01371 | |
| 0.60 | 6 | 0.28230 | 7 | 0.19400 | 9 | 0.08386 | 11 | 0.03290 | 14 | 0.00701 | |
| | 5 | 0.39665 | 6 | 0.28230 | 8 | 0.12929 | 10 | 0.05310 | 13 | 0.01194 | |
| 0.55 | 7 | 0.27750 | 9 | 0.14491 | 11 | 0.06989 | 12 | 0.04733 | 16 | 0.00667 | |
| | 6 | 0.37061 | 8 | 0.20274 | 10 | 0.10154 | 11 | 0.06989 | 15 | 0.01350 | |
| 0.50 | 8 | 0.29559 | 10 | 0.17534 | 12 | 0.09820 | 15 | 0.03766 | 19 | 0.00918 | |
| | 7 | 0.37430 | 9 | 0.22945 | 11 | 0.13208 | 14 | 0.05239 | 18 | 0.01323 | |
| 0.45 | 10 | 0.27505 | 12 | 0.17977 | 15 | 0.08860 | 18 | 0.04071 | 23 | 0.00983 | |
| | 9 | 0.33460 | 11 | 0.22350 | 14 | 0.11311 | 17 | 0.05313 | 22 | 0.01320 | |
| 0.40 | 12 | 0.29271 | 15 | 0.17745 | 19 | 0.08393 | 22 | 0.04548 | 29 | 0.00949 | |
| | 11 | 0.34121 | 14 | 0.21100 | 18 | 0.10200 | 21 | 0.05603 | 28 | 0.01200 | |
| 0.35 | 16 | 0.27131 | 19 | 0.18461 | 24 | 0.09077 | 28 | 0.04882 | 38 | 0.00881 | |
| | 15 | 0.30607 | 18 | 0.21067 | 23 | 0.10527 | 27 | 0.05723 | 37 | 0.01055 | |
| 0.30 | 21 | 0.28195 | 25 | 0.19414 | 32 | 0.09403 | 38 | 0.04750 | 51 | 0.00926 | |
| | 20 | 0.30788 | 24 | 0.21377 | 31 | 0.10482 | 37 | 0.05341 | 50 | 0.01057 | |
| 0.25 | 29 | 0.29653 | 36 | 0.18872 | 45 | 0.09888 | 54 | 0.04870 | 73 | 0.00928 | |
| | 28 | 0.31500 | 35 | 0.20189 | 44 | 0.10659 | 53 | 0.05283 | 72 | 0.01018 | |
| 0.20 | 45 | 0.29401 | 55 | 0.19471 | 70 | 0.09785 | 84 | 0.04831 | 113 | 0.00958 | |
| | 44 | 0.30567 | 54 | 0.20327 | 69 | 0.10269 | 83 | 0.05090 | 112 | 0.01016 | |
| 0.15 | 79 | 0.29577 | 96 | 0.19973 | 123 | 0.09978 | 148 | 0.04919 | 199 | 0.00996 | |
| | 78 | 0.30232 | 95 | 0.20461 | 122 | 0.10252 | 147 | 0.05065 | 198 | 0.01029 | |
| 0.10 | 176 | 0.29748 | 215 | 0.19939 | 276 | 0.09929 | 331 | 0.04973 | 447 | 0.00990 | |
| | 175 | 0.30038 | 214 | 0.20154 | 275 | 0.10050 | 330 | 0.05038 | 446 | 0.01005 | |
| 0.05 | 698 | 0.29982 | 857 | 0.19951 | 1099 | 0.09996 | 1320 | 0.04993 | 1783 | 0.00998 | |
| | 697 | 0.30055 | 856 | 0.20005 | 1098 | 0.10026 | 1319 | 0.05009 | 1782 | 0.01002 | |
| 0.01 | 17422 | 0.29999 | 21381 | 0.19998 | 27451 | 0.09998 | 32969 | 0.04999 | 44562 | 0.00999 | |
| | 17421 | 0.30002 | 21380 | 0.20000 | 27450 | 0.10000 | 32968 | 0.05000 | 44561 | 0.01000 | |

| K = 6 BETA = LAMBDA | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|---------------------------|--------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
| | C.30 | | | | | | | | | |
| 1.00 | 4 | 0.26674 | 5 | 0.10244 | 6 | 0.03274 | 6 | 0.03274 | 7 | 0.00911 |
| | 3 | 0.56042 | 4 | 0.26674 | 5 | 0.10244 | 5 | 0.10244 | 6 | 0.03274 |
| 0.95 | 5 | 0.14683 | 5 | 0.14683 | 6 | 0.05558 | 7 | 0.01857 | 8 | 0.00560 |
| | 4 | 0.33175 | 4 | 0.33175 | 5 | 0.14683 | 6 | 0.05558 | 7 | 0.01857 |
| 0.90 | 5 | 0.20241 | 6 | 0.08936 | 6 | 0.08936 | 7 | 0.03531 | 9 | 0.00425 |
| | 4 | 0.39574 | 5 | 0.20241 | 5 | 0.20241 | 6 | 0.08936 | 8 | 0.01273 |
| 0.85 | 5 | 0.26674 | 6 | 0.13631 | 7 | 0.06271 | 8 | 0.02660 | 10 | 0.00392 |
| | 4 | 0.47068 | 5 | 0.26674 | 6 | 0.13631 | 7 | 0.06271 | 9 | 0.01053 |
| 0.80 | 6 | 0.19759 | 6 | 0.19759 | 8 | 0.05121 | 9 | 0.02366 | 11 | 0.00434 |
| | 5 | 0.34421 | 5 | 0.34421 | 7 | 0.10424 | 8 | 0.05121 | 10 | 0.01037 |
| 0.75 | 6 | 0.27276 | 7 | 0.16253 | 8 | 0.09107 | 9 | 0.04838 | 12 | 0.00560 |
| | 5 | 0.42668 | 6 | 0.27276 | 7 | 0.16253 | 8 | 0.09107 | 11 | 0.01193 |
| 0.70 | 7 | 0.23833 | 8 | 0.15001 | 9 | 0.09021 | 11 | 0.02903 | 13 | 0.00821 |
| | 6 | 0.35946 | 7 | 0.23833 | 8 | 0.15001 | 10 | 0.05210 | 12 | 0.01567 |
| 0.65 | 8 | 0.22963 | 9 | 0.15395 | 10 | 0.09975 | 12 | 0.03632 | 15 | 0.00759 |
| | 7 | 0.32970 | 8 | 0.22963 | 9 | 0.15395 | 11 | 0.06268 | 14 | 0.01331 |
| 0.60 | 9 | 0.24147 | 10 | 0.17286 | 12 | 0.08224 | 14 | 0.03593 | 17 | 0.00909 |
| | 8 | 0.32798 | 9 | 0.24147 | 11 | 0.12062 | 13 | 0.05489 | 16 | 0.01461 |
| 0.55 | 10 | 0.27256 | 12 | 0.15579 | 14 | 0.08301 | 16 | 0.04165 | 20 | 0.00902 |
| | 9 | 0.34966 | 11 | 0.20802 | 13 | 0.11464 | 15 | 0.05921 | 19 | 0.01345 |
| 0.50 | 12 | 0.26228 | 14 | 0.16532 | 16 | 0.09926 | 19 | 0.04269 | 24 | 0.00879 |
| | 11 | 0.32370 | 13 | 0.20958 | 15 | 0.12883 | 18 | 0.05710 | 23 | 0.01225 |
| 0.45 | 14 | 0.28643 | 16 | 0.19964 | 20 | 0.08799 | 23 | 0.04424 | 29 | 0.00960 |
| | 13 | 0.33840 | 15 | 0.24019 | 19 | 0.10920 | 22 | 0.05599 | 28 | 0.01254 |
| 0.40 | 18 | 0.26279 | 20 | 0.19679 | 25 | 0.08749 | 29 | 0.04232 | 37 | 0.00837 |
| | 17 | 0.30113 | 19 | 0.22803 | 24 | 0.10384 | 28 | 0.05104 | 36 | 0.01036 |
| 0.35 | 22 | 0.29527 | 26 | 0.19069 | 32 | 0.09053 | 37 | 0.04537 | 47 | 0.00975 |
| | 21 | 0.32663 | 25 | 0.21373 | 31 | 0.10319 | 36 | 0.05234 | 46 | 0.01146 |
| 0.30 | 30 | 0.28383 | 35 | 0.18947 | 43 | 0.09134 | 49 | 0.04567 | 64 | 0.00919 |
| | 29 | 0.30609 | 34 | 0.20613 | 42 | 0.10057 | 48 | 0.05533 | 63 | 0.01036 |
| 0.25 | 42 | 0.29355 | 49 | 0.19903 | 61 | 0.09357 | 70 | 0.04986 | 91 | 0.00966 |
| | 41 | 0.30923 | 48 | 0.21092 | 60 | 0.10003 | 69 | 0.05360 | 90 | 0.01050 |
| 0.20 | 65 | 0.29266 | 76 | 0.19790 | 94 | 0.09600 | 109 | 0.04908 | 141 | 0.00991 |
| | 64 | 0.30261 | 75 | 0.20541 | 93 | 0.10018 | 108 | 0.05142 | 140 | 0.01045 |
| 0.15 | 114 | 0.29583 | 134 | 0.19843 | 165 | 0.09863 | 193 | 0.04882 | 250 | 0.00982 |
| | 113 | 0.30144 | 133 | 0.20264 | 164 | 0.10102 | 192 | 0.05011 | 249 | 0.01011 |
| 0.10 | 254 | 0.29812 | 300 | 0.19828 | 369 | 0.09934 | 431 | 0.04978 | 560 | 0.00994 |
| | 253 | 0.30062 | 299 | 0.20015 | 368 | 0.10040 | 430 | 0.05036 | 559 | 0.01007 |
| 0.05 | 1010 | 0.29951 | 1193 | 0.19978 | 1470 | 0.09993 | 1719 | 0.04996 | 2235 | 0.00998 |
| | 1009 | 0.30013 | 1192 | 0.20025 | 1469 | 0.10020 | 1718 | 0.05010 | 2234 | 0.01001 |
| 0.01 | 25201 | 0.29997 | 29784 | 0.19998 | 36714 | 0.09999 | 42938 | 0.04999 | 55832 | 0.00999 |
| | 25200 | 0.30000 | 29783 | 0.20000 | 36713 | 0.10000 | 42937 | 0.05000 | 55831 | 0.01000 |

| K = 7 BETA = LAMBDA | ALPHA = 0.05 | | | | | | | | | |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|------|--|------|--|
| | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| 1.00 | 3 0.19544 2 0.55991 | 3 0.19544 2 0.55991 | 4 0.04965 3 0.19544 | 4 0.04965 3 0.19544 | 6 0.00176 5 0.01015 | | | | | |
| 0.95 | 3 0.24356 2 0.59980 | 4 0.07496 3 0.24356 | 4 0.07496 3 0.24356 | 5 0.01900 4 0.07496 | 6 0.00416 5 0.01900 | | | | | |
| 0.90 | 3 0.29715 2 0.63844 | 4 0.10892 3 0.29715 | 5 0.03363 4 0.10892 | 5 0.03363 4 0.10892 | 6 0.00911 5 0.03363 | | | | | |
| 0.85 | 4 0.15249 3 0.35521 | 4 0.15249 3 0.35521 | 5 0.05636 4 0.15249 | 6 0.01856 5 0.05636 | 7 0.00557 6 0.01856 | | | | | |
| 0.80 | 4 0.20594 3 0.41639 | 5 0.08956 4 0.20594 | 5 0.08956 4 0.20594 | 6 0.03521 5 0.08956 | 8 0.00431 7 0.01275 | | | | | |
| 0.75 | 4 0.26867 3 0.47912 | 5 0.13516 4 0.26867 | 6 0.06232 5 0.13516 | 7 0.02676 6 0.06232 | 9 0.00415 8 0.01082 | | | | | |
| 0.70 | 5 0.19407 4 0.33914 | 5 0.19407 4 0.33914 | 7 0.05160 6 0.10319 | 8 0.02449 7 0.05160 | 10 0.00485 9 0.01112 | | | | | |
| 0.65 | 5 0.26575 4 0.41494 | 6 0.16017 5 0.26575 | 7 0.09169 6 0.16017 | 9 0.02647 8 0.05022 | 11 0.00667 10 0.01349 | | | | | |
| 0.60 | 6 0.23379 5 0.34791 | 7 0.15063 6 0.23379 | 8 0.09355 7 0.15063 | 10 0.03287 9 0.05626 | 13 0.00568 12 0.01042 | | | | | |
| 0.55 | 7 0.22962 6 0.32200 | 8 0.15897 7 0.22962 | 10 0.07060 9 0.10720 | 11 0.04552 10 0.07060 | 15 0.00658 14 0.01093 | | | | | |
| 0.50 | 8 0.24766 7 0.32629 | 9 0.18412 8 0.24766 | 11 0.09635 10 0.13434 | 13 0.04734 12 0.06802 | 17 0.00981 16 0.01479 | | | | | |
| 0.45 | 9 0.28689 8 0.35584 | 11 0.17883 10 0.22801 | 14 0.08046 13 0.10614 | 16 0.04491 15 0.06039 | 21 0.00906 20 0.01266 | | | | | |
| 0.40 | 11 0.29369 10 0.34812 | 14 0.16742 13 0.20356 | 17 0.08920 16 0.11078 | 20 0.04489 19 0.05676 | 26 0.00989 25 0.01287 | | | | | |
| 0.35 | 14 0.29666 13 0.33802 | 17 0.19445 16 0.22495 | 22 0.08794 21 0.10390 | 26 0.04357 25 0.05219 | 34 0.00925 33 0.01133 | | | | | |
| 0.30 | 19 0.28849 18 0.31794 | 23 0.19028 22 0.21197 | 29 0.09479 28 0.10704 | 35 0.04388 34 0.05012 | 46 0.00917 45 0.01065 | | | | | |
| 0.25 | 27 0.28752 26 0.30771 | 33 0.18616 32 0.20078 | 41 0.09768 40 0.10627 | 49 0.04811 48 0.05273 | 66 0.00902 65 0.01001 | | | | | |
| 0.20 | 41 0.29606 40 0.30913 | 50 0.19585 49 0.20548 | 64 0.09531 63 0.10062 | 76 0.04825 75 0.05117 | 102 0.00940 101 0.01004 | | | | | |
| 0.15 | 72 0.29736 71 0.30469 | 88 0.19681 87 0.20220 | 112 0.09848 111 0.10152 | 134 0.04890 133 0.05054 | 179 0.00998 178 0.01036 | | | | | |
| 0.10 | 161 0.29693 160 0.30017 | 196 0.19888 195 0.20128 | 250 0.09965 249 0.10100 | 299 0.04989 298 0.05063 | 402 0.00992 401 0.01009 | | | | | |
| 0.05 | 638 0.29960 637 0.30041 | 780 0.19965 779 0.20025 | 997 0.09975 996 0.10008 | 1193 0.04995 1192 0.05013 | 1604 0.00998 1603 0.01002 | | | | | |
| 0.01 | 15917 0.29997 15916 0.30000 | 19465 0.19997 19464 0.20000 | 24885 0.09999 24884 0.10001 | 29797 0.04999 29796 0.05000 | 40067 0.00999 40066 0.01000 | | | | | |

| K = 7 | | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | | | | | | | | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 4 | 0.19763 | 4 | 0.19763 | 5 | 0.06117 | 6 | 0.01543 | 7 | 0.00331 | |
| | 3 | 0.48733 | 3 | 0.48733 | 4 | 0.19763 | 5 | 0.06117 | 6 | 0.01543 | |
| 0.95 | 4 | 0.25705 | 5 | 0.09531 | 5 | 0.09531 | 6 | 0.02944 | 7 | 0.00787 | |
| | 3 | 0.54738 | 4 | 0.25705 | 4 | 0.25705 | 5 | 0.09531 | 6 | 0.02944 | |
| 0.90 | 5 | 0.14161 | 5 | 0.14161 | 6 | 0.05262 | 7 | 0.01718 | 8 | 0.00504 | |
| | 4 | 0.32438 | 4 | 0.32438 | 5 | 0.14161 | 6 | 0.05262 | 7 | 0.01718 | |
| 0.85 | 5 | 0.20092 | 6 | 0.08824 | 6 | 0.08824 | 7 | 0.03457 | 9 | 0.00405 | |
| | 4 | 0.39771 | 5 | 0.20092 | 5 | 0.20092 | 6 | 0.08824 | 8 | 0.01232 | |
| 0.80 | 5 | 0.27273 | 6 | 0.13909 | 7 | 0.06422 | 8 | 0.02727 | 10 | 0.00401 | |
| | 4 | 0.47448 | 5 | 0.27273 | 6 | 0.13909 | 7 | 0.06422 | 9 | 0.01079 | |
| 0.75 | 6 | 0.20656 | 7 | 0.11041 | 8 | 0.05489 | 9 | 0.02564 | 11 | 0.00478 | |
| | 5 | 0.35495 | 6 | 0.20656 | 7 | 0.11041 | 8 | 0.05489 | 10 | 0.01134 | |
| 0.70 | 6 | 0.28984 | 7 | 0.17622 | 9 | 0.05458 | 10 | 0.02820 | 12 | 0.00667 | |
| | 5 | 0.44400 | 6 | 0.28984 | 8 | 0.10074 | 9 | 0.05458 | 11 | 0.01398 | |
| 0.65 | 7 | 0.26202 | 8 | 0.16921 | 10 | 0.06192 | 11 | 0.03542 | 14 | 0.00552 | |
| | 6 | 0.38551 | 7 | 0.26202 | 9 | 0.10444 | 10 | 0.06192 | 13 | 0.01055 | |
| 0.60 | 8 | 0.26130 | 9 | 0.18052 | 11 | 0.07820 | 12 | 0.04933 | 16 | 0.00621 | |
| | 7 | 0.36448 | 8 | 0.26130 | 10 | 0.12062 | 11 | 0.07820 | 15 | 0.01075 | |
| 0.55 | 9 | 0.28342 | 11 | 0.15137 | 13 | 0.07387 | 15 | 0.03340 | 18 | 0.00900 | |
| | 8 | 0.37298 | 10 | 0.20968 | 12 | 0.10684 | 14 | 0.05011 | 17 | 0.01414 | |
| 0.50 | 11 | 0.25882 | 13 | 0.15326 | 15 | 0.08533 | 17 | 0.04502 | 22 | 0.00748 | |
| | 10 | 0.32769 | 12 | 0.20082 | 14 | 0.11518 | 16 | 0.06237 | 21 | 0.01093 | |
| 0.45 | 13 | 0.27379 | 15 | 0.18116 | 18 | 0.09021 | 21 | 0.04145 | 26 | 0.00978 | |
| | 12 | 0.33077 | 14 | 0.22395 | 17 | 0.11491 | 20 | 0.05416 | 25 | 0.01323 | |
| 0.40 | 16 | 0.27897 | 19 | 0.17063 | 22 | 0.09844 | 26 | 0.04371 | 33 | 0.00883 | |
| | 15 | 0.32394 | 18 | 0.20240 | 21 | 0.11896 | 25 | 0.05396 | 32 | 0.01123 | |
| 0.35 | 20 | 0.29632 | 24 | 0.18081 | 29 | 0.08949 | 33 | 0.04804 | 43 | 0.00839 | |
| | 19 | 0.33169 | 23 | 0.20584 | 28 | 0.10372 | 32 | 0.05638 | 42 | 0.01009 | |
| 0.30 | 27 | 0.29080 | 32 | 0.18475 | 39 | 0.08978 | 45 | 0.04512 | 57 | 0.00972 | |
| | 26 | 0.31623 | 31 | 0.20319 | 38 | 0.10009 | 44 | 0.05081 | 56 | 0.01113 | |
| 0.25 | 38 | 0.29672 | 45 | 0.19154 | 55 | 0.09412 | 64 | 0.04612 | 82 | 0.00932 | |
| | 37 | 0.31446 | 44 | 0.20456 | 54 | 0.10147 | 63 | 0.05008 | 81 | 0.01024 | |
| 0.20 | 59 | 0.29330 | 69 | 0.19671 | 84 | 0.09999 | 98 | 0.04944 | 127 | 0.00957 | |
| | 58 | 0.30449 | 68 | 0.20513 | 83 | 0.10488 | 97 | 0.05210 | 126 | 0.01016 | |
| 0.15 | 103 | 0.29923 | 122 | 0.19543 | 149 | 0.09836 | 173 | 0.04986 | 224 | 0.00984 | |
| | 102 | 0.30557 | 121 | 0.20011 | 148 | 0.10105 | 172 | 0.05135 | 223 | 0.01018 | |
| 0.10 | 230 | 0.29991 | 271 | 0.19958 | 333 | 0.09924 | 388 | 0.04969 | 502 | 0.00992 | |
| | 229 | 0.30273 | 270 | 0.20168 | 332 | 0.10044 | 387 | 0.05035 | 501 | 0.01007 | |
| 0.05 | 917 | 0.29949 | 1080 | 0.19978 | 1326 | 0.09996 | 1547 | 0.04992 | 2003 | 0.00997 | |
| | 916 | 0.30019 | 1079 | 0.20031 | 1325 | 0.10026 | 1546 | 0.05008 | 2002 | 0.01001 | |
| 0.01 | 22879 | 0.29997 | 26961 | 0.19999 | 33119 | 0.09998 | 38631 | 0.04999 | 50030 | 0.00999 | |
| | 22878 | 0.30000 | 26960 | 0.20002 | 33118 | 0.10000 | 38630 | 0.05000 | 50029 | 0.01000 | |

| K = 8 BETA = LAMBDA | ALPHA = 0.05 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|------|--|------|--|
| | 0.30 | | | | | | | | | |
| 1.00 | 3 0.15290 2 0.51581 | 3 0.15290 2 0.51581 | 4 0.03140 3 0.15290 | 4 0.03140 3 0.15290 | 5 0.00502 4 0.03140 | | | | | |
| 0.95 | 3 0.19790 2 0.55961 | 3 0.19790 2 0.55961 | 4 0.05076 3 0.19790 | 5 0.01041 4 0.05076 | 6 0.00180 5 0.01041 | | | | | |
| 0.90 | 3 0.24979 2 0.60241 | 4 0.07847 3 0.24979 | 4 0.07847 3 0.24979 | 5 0.02022 4 0.07847 | 6 0.00448 5 0.02022 | | | | | |
| 0.85 | 4 0.11612 3 0.30773 | 4 0.11612 3 0.30773 | 5 0.03684 4 0.11612 | 5 0.03684 4 0.11612 | 7 0.00255 6 0.01022 | | | | | |
| 0.80 | 4 0.16473 3 0.37041 | 4 0.16473 3 0.37041 | 5 0.06308 4 0.16473 | 6 0.02149 5 0.06308 | 7 0.00666 6 0.02149 | | | | | |
| 0.75 | 4 0.22438 3 0.43611 | 5 0.10170 4 0.22438 | 6 0.04166 5 0.10170 | 6 0.04166 5 0.10170 | 8 0.00553 7 0.01571 | | | | | |
| 0.70 | 4 0.29401 3 0.50288 | 5 0.15472 4 0.29401 | 6 0.07473 5 0.15472 | 7 0.03362 6 0.07473 | 9 0.00573 8 0.01424 | | | | | |
| 0.65 | 5 0.22266 4 0.37136 | 6 0.12435 5 0.22266 | 7 0.06540 6 0.12435 | 8 0.03268 7 0.06540 | 10 0.00718 9 0.01562 | | | | | |
| 0.60 | 6 0.19257 5 0.30400 | 6 0.19257 5 0.30400 | 8 0.06710 7 0.11613 | 9 0.03734 8 0.06710 | 12 0.00535 11 0.01051 | | | | | |
| 0.55 | 6 0.27868 5 0.39512 | 7 0.18899 6 0.27868 | 9 0.07867 8 0.12382 | 10 0.04863 9 0.07867 | 13 0.00999 12 0.01729 | | | | | |
| 0.50 | 7 0.28339 6 0.37856 | 9 0.14688 8 0.20651 | 11 0.06971 10 0.10220 | 12 0.04668 11 0.06971 | 16 0.00804 15 0.01275 | | | | | |
| 0.45 | 9 0.24485 8 0.31343 | 10 0.18809 9 0.24485 | 13 0.07806 12 0.10608 | 15 0.04678 14 0.05674 | 19 0.00983 18 0.01423 | | | | | |
| 0.40 | 11 0.25184 10 0.30602 | 13 0.16533 12 0.20507 | 16 0.08212 15 0.10457 | 18 0.04951 17 0.06400 | 24 0.00928 23 0.01244 | | | | | |
| 0.35 | 13 0.29617 12 0.34169 | 16 0.18565 15 0.21824 | 20 0.09213 19 0.11060 | 24 0.04241 23 0.05181 | 31 0.00942 30 0.01180 | | | | | |
| 0.30 | 18 0.27635 17 0.30785 | 21 0.19590 20 0.22042 | 27 0.09080 26 0.10392 | 32 0.04459 31 0.05164 | 42 0.00922 41 0.01088 | | | | | |
| 0.25 | 25 0.28745 24 0.30966 | 30 0.19334 29 0.20995 | 38 0.09503 37 0.10433 | 45 0.04782 44 0.05293 | 60 0.00931 59 0.01044 | | | | | |
| 0.20 | 38 0.29523 37 0.30956 | 46 0.19718 45 0.20785 | 59 0.09430 58 0.10012 | 70 0.04723 69 0.05041 | 93 0.00948 92 0.01020 | | | | | |
| 0.15 | 67 0.29413 66 0.30212 | 81 0.19768 80 0.20364 | 103 0.09819 102 0.10154 | 123 0.04856 122 0.05037 | 164 0.00974 163 0.01015 | | | | | |
| 0.10 | 148 0.29995 147 0.30353 | 181 0.19805 180 0.20069 | 230 0.09914 229 0.10063 | 274 0.04988 273 0.05069 | 367 0.00990 366 0.01008 | | | | | |
| 0.05 | 590 0.29937 589 0.30026 | 719 0.19960 718 0.20026 | 916 0.09964 915 0.10002 | 1093 0.04995 1092 0.05015 | 1464 0.00996 1463 0.01001 | | | | | |
| 0.01 | 14712 0.29997 14711 0.30001 | 17940 0.19997 17939 0.20000 | 22856 0.09998 22855 0.10000 | 27299 0.04999 27298 0.05000 | 36561 0.00999 36560 0.01000 | | | | | |

| K = 8 | | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | | | | | | | | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 4 | 0.14255 | 4 | 0.14255 | 5 | 0.03555 | 5 | 0.03555 | 6 | 0.00702 | |
| | 3 | 0.41917 | 3 | 0.41917 | 4 | 0.14255 | 4 | 0.14255 | 5 | 0.03555 | |
| 0.95 | 4 | 0.19591 | 4 | 0.19591 | 5 | 0.06044 | 6 | 0.01514 | 7 | 0.00321 | |
| | 3 | 0.48362 | 3 | 0.48362 | 4 | 0.19591 | 5 | 0.06044 | 6 | 0.01514 | |
| 0.90 | 4 | 0.25964 | 5 | 0.09711 | 5 | 0.09711 | 6 | 0.03019 | 7 | 0.00810 | |
| | 3 | 0.54824 | 4 | 0.25964 | 4 | 0.25964 | 5 | 0.09711 | 6 | 0.03019 | |
| 0.85 | 5 | 0.14770 | 5 | 0.14770 | 6 | 0.05587 | 7 | 0.01854 | 8 | 0.00552 | |
| | 4 | 0.33232 | 4 | 0.33232 | 5 | 0.14770 | 6 | 0.05587 | 7 | 0.01854 | |
| 0.80 | 5 | 0.21313 | 6 | 0.09610 | 6 | 0.09610 | 7 | 0.03865 | 9 | 0.00476 | |
| | 4 | 0.41149 | 5 | 0.21313 | 5 | 0.21313 | 6 | 0.09610 | 8 | 0.01413 | |
| 0.75 | 5 | 0.29243 | 6 | 0.15406 | 7 | 0.07357 | 8 | 0.03233 | 10 | 0.00509 | |
| | 4 | 0.49391 | 5 | 0.29243 | 6 | 0.15406 | 7 | 0.07357 | 9 | 0.01323 | |
| 0.70 | 6 | 0.23067 | 7 | 0.12826 | 8 | 0.06636 | 9 | 0.03228 | 11 | 0.00654 | |
| | 5 | 0.38261 | 6 | 0.23087 | 7 | 0.12826 | 8 | 0.06636 | 10 | 0.01488 | |
| 0.65 | 7 | 0.20566 | 8 | 0.12278 | 9 | 0.06956 | 10 | 0.03763 | 12 | 0.00977 | |
| | 6 | 0.32464 | 7 | 0.20566 | 8 | 0.12278 | 9 | 0.06956 | 11 | 0.01953 | |
| 0.60 | 8 | 0.20570 | 9 | 0.13301 | 10 | 0.08275 | 11 | 0.04972 | 14 | 0.00903 | |
| | 7 | 0.30470 | 8 | 0.20570 | 9 | 0.13301 | 10 | 0.08275 | 13 | 0.01638 | |
| 0.55 | 9 | 0.22709 | 10 | 0.15921 | 12 | 0.07203 | 13 | 0.04670 | 17 | 0.00673 | |
| | 8 | 0.31397 | 9 | 0.22709 | 11 | 0.10849 | 12 | 0.07203 | 16 | 0.01123 | |
| 0.50 | 10 | 0.27021 | 12 | 0.15178 | 14 | 0.07895 | 16 | 0.03843 | 20 | 0.00771 | |
| | 9 | 0.34893 | 11 | 0.20462 | 13 | 0.11045 | 15 | 0.05551 | 19 | 0.01173 | |
| 0.45 | 12 | 0.27385 | 14 | 0.17304 | 17 | 0.07898 | 19 | 0.04429 | 24 | 0.00887 | |
| | 11 | 0.33715 | 13 | 0.21919 | 16 | 0.10379 | 18 | 0.05945 | 23 | 0.01244 | |
| 0.40 | 15 | 0.26779 | 17 | 0.18675 | 21 | 0.08249 | 24 | 0.04154 | 30 | 0.00901 | |
| | 14 | 0.31638 | 16 | 0.22460 | 20 | 0.10231 | 23 | 0.05254 | 29 | 0.01178 | |
| 0.35 | 19 | 0.27586 | 22 | 0.18247 | 26 | 0.09837 | 30 | 0.04961 | 39 | 0.00868 | |
| | 18 | 0.31329 | 21 | 0.21048 | 25 | 0.11557 | 29 | 0.05921 | 38 | 0.01067 | |
| 0.30 | 25 | 0.28745 | 29 | 0.19277 | 35 | 0.09793 | 41 | 0.04588 | 52 | 0.00960 | |
| | 24 | 0.31538 | 28 | 0.21390 | 34 | 0.11029 | 40 | 0.05233 | 51 | 0.01116 | |
| 0.25 | 35 | 0.29663 | 41 | 0.19622 | 50 | 0.09699 | 58 | 0.04814 | 74 | 0.00997 | |
| | 34 | 0.31624 | 40 | 0.21091 | 49 | 0.10537 | 57 | 0.05273 | 73 | 0.01107 | |
| 0.20 | 54 | 0.29700 | 63 | 0.19996 | 77 | 0.09944 | 90 | 0.04805 | 115 | 0.00995 | |
| | 53 | 0.30946 | 62 | 0.20940 | 76 | 0.10485 | 89 | 0.05094 | 114 | 0.01064 | |
| 0.15 | 95 | 0.29766 | 112 | 0.19527 | 136 | 0.09939 | 158 | 0.04982 | 204 | 0.00978 | |
| | 94 | 0.30464 | 111 | 0.20045 | 135 | 0.10241 | 157 | 0.05147 | 203 | 0.01016 | |
| 0.10 | 212 | 0.29858 | 249 | 0.19883 | 305 | 0.09880 | 354 | 0.04985 | 457 | 0.00987 | |
| | 211 | 0.30168 | 248 | 0.20115 | 304 | 0.10013 | 353 | 0.05059 | 456 | 0.01004 | |
| 0.05 | 843 | 0.29976 | 991 | 0.19972 | 1213 | 0.09997 | 1412 | 0.04995 | 1822 | 0.00998 | |
| | 842 | 0.30054 | 990 | 0.20030 | 1212 | 0.10030 | 1411 | 0.05013 | 1821 | 0.01002 | |
| 0.01 | 21040 | 0.29999 | 24736 | 0.19998 | 30296 | 0.09999 | 35267 | 0.04999 | 45511 | 0.00999 | |
| | 21039 | 0.30002 | 24735 | 0.20000 | 30295 | 0.10000 | 35266 | 0.05000 | 45510 | 0.01000 | |

| K = 9 | | ALPHA = 0.05 | | | | | | | | | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 3 | 0.11872 | 3 | 0.11872 | 4 | 0.01962 | 4 | 0.01962 | 5 | 0.00244 | |
| | 2 | 0.47388 | 2 | 0.47388 | 3 | 0.11872 | 3 | 0.11872 | 4 | 0.01962 | |
| 0.95 | 3 | 0.15980 | 3 | 0.15980 | 4 | 0.03402 | 4 | 0.03402 | 5 | 0.00562 | |
| | 2 | 0.52098 | 2 | 0.52098 | 3 | 0.15980 | 3 | 0.15980 | 4 | 0.03402 | |
| 0.90 | 3 | 0.20890 | 4 | 0.05603 | 4 | 0.05603 | 5 | 0.01200 | 6 | 0.00217 | |
| | 2 | 0.56745 | 3 | 0.20890 | 3 | 0.20890 | 4 | 0.05603 | 5 | 0.01200 | |
| 0.85 | 3 | 0.26549 | 4 | 0.08777 | 4 | 0.08777 | 5 | 0.02382 | 6 | 0.00556 | |
| | 2 | 0.61262 | 3 | 0.26549 | 3 | 0.26549 | 4 | 0.08777 | 5 | 0.02382 | |
| 0.80 | 4 | 0.13057 | 4 | 0.13097 | 5 | 0.04404 | 5 | 0.04404 | 7 | 0.00343 | |
| | 3 | 0.32843 | 3 | 0.32843 | 4 | 0.13097 | 4 | 0.13097 | 6 | 0.01297 | |
| 0.75 | 4 | 0.18650 | 4 | 0.18650 | 5 | 0.07598 | 6 | 0.02759 | 7 | 0.00912 | |
| | 3 | 0.39597 | 3 | 0.39597 | 4 | 0.18650 | 5 | 0.07598 | 6 | 0.02759 | |
| 0.70 | 4 | 0.25394 | 5 | 0.12264 | 6 | 0.05371 | 7 | 0.02169 | 8 | 0.00818 | |
| | 3 | 0.46598 | 4 | 0.25394 | 5 | 0.12264 | 6 | 0.05371 | 7 | 0.02169 | |
| 0.65 | 5 | 0.18573 | 5 | 0.18573 | 6 | 0.09595 | 7 | 0.04629 | 9 | 0.00911 | |
| | 4 | 0.33143 | 4 | 0.33143 | 5 | 0.18573 | 6 | 0.09595 | 8 | 0.02107 | |
| 0.60 | 5 | 0.26478 | 6 | 0.15789 | 7 | 0.08899 | 8 | 0.04777 | 11 | 0.00583 | |
| | 4 | 0.41571 | 5 | 0.26478 | 6 | 0.15789 | 7 | 0.08899 | 10 | 0.01217 | |
| 0.55 | 6 | 0.24037 | 7 | 0.15485 | 8 | 0.09589 | 10 | 0.03323 | 13 | 0.00552 | |
| | 5 | 0.35666 | 6 | 0.24037 | 7 | 0.15485 | 9 | 0.05733 | 12 | 0.01028 | |
| 0.50 | 7 | 0.24535 | 8 | 0.17149 | 10 | 0.07729 | 12 | 0.03179 | 15 | 0.00729 | |
| | 6 | 0.34031 | 7 | 0.24535 | 9 | 0.11658 | 11 | 0.05008 | 14 | 0.01211 | |
| 0.45 | 8 | 0.27531 | 10 | 0.15450 | 12 | 0.08075 | 14 | 0.03973 | 18 | 0.00828 | |
| | 7 | 0.35637 | 9 | 0.20825 | 11 | 0.11261 | 13 | 0.05704 | 17 | 0.01246 | |
| 0.40 | 10 | 0.26828 | 12 | 0.17060 | 15 | 0.07956 | 17 | 0.04560 | 22 | 0.00987 | |
| | 9 | 0.33004 | 11 | 0.21524 | 14 | 0.10365 | 16 | 0.06050 | 21 | 0.01360 | |
| 0.35 | 13 | 0.25880 | 15 | 0.18325 | 19 | 0.08488 | 22 | 0.04489 | 29 | 0.00863 | |
| | 12 | 0.30415 | 14 | 0.21856 | 18 | 0.10383 | 21 | 0.05580 | 28 | 0.01106 | |
| 0.30 | 17 | 0.27058 | 20 | 0.18550 | 25 | 0.09199 | 29 | 0.04962 | 39 | 0.00888 | |
| | 16 | 0.30440 | 19 | 0.21119 | 24 | 0.10654 | 28 | 0.05815 | 38 | 0.01065 | |
| 0.25 | 23 | 0.29587 | 28 | 0.19254 | 35 | 0.09794 | 42 | 0.04626 | 55 | 0.00979 | |
| | 22 | 0.32050 | 27 | 0.21061 | 34 | 0.10839 | 41 | 0.05170 | 54 | 0.01110 | |
| 0.20 | 36 | 0.28738 | 43 | 0.19540 | 54 | 0.09919 | 65 | 0.04670 | 86 | 0.00936 | |
| | 35 | 0.30269 | 42 | 0.20695 | 53 | 0.10584 | 64 | 0.05015 | 85 | 0.01015 | |
| 0.15 | 62 | 0.29869 | 76 | 0.19392 | 96 | 0.09674 | 114 | 0.04838 | 151 | 0.00989 | |
| | 61 | 0.30746 | 75 | 0.20031 | 95 | 0.10036 | 113 | 0.05035 | 150 | 0.01035 | |
| 0.10 | 139 | 0.29644 | 168 | 0.19935 | 213 | 0.09982 | 254 | 0.04962 | 339 | 0.00983 | |
| | 138 | 0.30030 | 167 | 0.20224 | 212 | 0.10146 | 253 | 0.05050 | 338 | 0.01003 | |
| 0.05 | 550 | 0.29972 | 669 | 0.19964 | 849 | 0.09999 | 1012 | 0.04993 | 1351 | 0.00995 | |
| | 549 | 0.30069 | 668 | 0.20036 | 848 | 0.10040 | 1011 | 0.05015 | 1350 | 0.01000 | |
| 0.01 | 13723 | 0.29997 | 16693 | 0.19997 | 21204 | 0.09999 | 25272 | 0.04999 | 33731 | 0.00999 | |
| | 13722 | 0.30001 | 16692 | 0.20000 | 21203 | 0.10001 | 25271 | 0.05000 | 33730 | 0.01000 | |

| K = 9 | | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | | | | | | | | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 4 | 0.10109 | 4 | 0.10109 | 5 | 0.02019 | 5 | 0.02019 | 6 | 0.00311 | |
| | 3 | 0.35699 | 3 | 0.35699 | 4 | 0.10109 | 4 | 0.10109 | 5 | 0.02019 | |
| 0.95 | 4 | 0.14717 | 4 | 0.14717 | 5 | 0.03756 | 5 | 0.03756 | 6 | 0.00759 | |
| | 3 | 0.42382 | 3 | 0.42382 | 4 | 0.14717 | 4 | 0.14717 | 5 | 0.03756 | |
| 0.90 | 4 | 0.20531 | 5 | 0.06544 | 5 | 0.06544 | 6 | 0.06544 | 7 | 0.00372 | |
| | 3 | 0.49261 | 4 | 0.20531 | 4 | 0.20531 | 5 | 0.06544 | 6 | 0.01694 | |
| 0.85 | 4 | 0.27491 | 5 | 0.10699 | 6 | 0.03470 | 6 | 0.03470 | 7 | 0.00972 | |
| | 3 | 0.56124 | 4 | 0.27491 | 5 | 0.10699 | 5 | 0.10699 | 6 | 0.03470 | |
| 0.80 | 5 | 0.16453 | 5 | 0.16453 | 6 | 0.06533 | 7 | 0.02281 | 8 | 0.00715 | |
| | 4 | 0.35399 | 4 | 0.35399 | 5 | 0.16453 | 6 | 0.06533 | 7 | 0.02281 | |
| 0.75 | 5 | 0.23856 | 6 | 0.11337 | 7 | 0.04820 | 7 | 0.04820 | 9 | 0.00667 | |
| | 4 | 0.43935 | 5 | 0.23856 | 6 | 0.11337 | 6 | 0.11337 | 8 | 0.01866 | |
| 0.70 | 6 | 0.18193 | 6 | 0.18193 | 7 | 0.09208 | 8 | 0.04300 | 10 | 0.00768 | |
| | 5 | 0.32717 | 5 | 0.32717 | 6 | 0.18193 | 7 | 0.09208 | 9 | 0.01873 | |
| 0.65 | 6 | 0.27108 | 7 | 0.15966 | 8 | 0.08789 | 9 | 0.04560 | 12 | 0.00476 | |
| | 5 | 0.42592 | 6 | 0.27108 | 7 | 0.15966 | 8 | 0.08789 | 11 | 0.01056 | |
| 0.60 | 7 | 0.25259 | 8 | 0.16022 | 9 | 0.09676 | 11 | 0.03109 | 13 | 0.00866 | |
| | 6 | 0.37686 | 7 | 0.25259 | 8 | 0.16022 | 10 | 0.05593 | 12 | 0.01668 | |
| 0.55 | 8 | 0.26221 | 9 | 0.18020 | 11 | 0.07673 | 12 | 0.04784 | 15 | 0.00995 | |
| | 7 | 0.36686 | 8 | 0.26221 | 10 | 0.11951 | 11 | 0.07673 | 14 | 0.01719 | |
| 0.50 | 9 | 0.29702 | 11 | 0.16018 | 13 | 0.07858 | 15 | 0.03555 | 18 | 0.00952 | |
| | 8 | 0.38839 | 10 | 0.22093 | 12 | 0.11342 | 14 | 0.05336 | 17 | 0.01500 | |
| 0.45 | 11 | 0.28605 | 13 | 0.17387 | 15 | 0.09920 | 18 | 0.03860 | 22 | 0.00934 | |
| | 10 | 0.35733 | 12 | 0.22490 | 14 | 0.13231 | 17 | 0.05354 | 21 | 0.01352 | |
| 0.40 | 14 | 0.26629 | 16 | 0.17922 | 19 | 0.09196 | 22 | 0.04369 | 28 | 0.00814 | |
| | 13 | 0.31936 | 15 | 0.21960 | 18 | 0.11592 | 21 | 0.05644 | 27 | 0.01094 | |
| 0.35 | 18 | 0.26374 | 20 | 0.19534 | 24 | 0.09996 | 28 | 0.04714 | 36 | 0.00856 | |
| | 17 | 0.30355 | 19 | 0.22768 | 23 | 0.11915 | 27 | 0.05728 | 35 | 0.01073 | |
| 0.30 | 23 | 0.29522 | 27 | 0.19110 | 33 | 0.09059 | 38 | 0.04512 | 48 | 0.00944 | |
| | 22 | 0.32628 | 26 | 0.21413 | 32 | 0.10333 | 37 | 0.05213 | 47 | 0.01114 | |
| 0.25 | 33 | 0.28736 | 38 | 0.19699 | 46 | 0.09948 | 54 | 0.04614 | 69 | 0.00904 | |
| | 32 | 0.30835 | 37 | 0.21313 | 45 | 0.10888 | 53 | 0.05101 | 68 | 0.01015 | |
| 0.20 | 50 | 0.29969 | 59 | 0.19439 | 72 | 0.09516 | 83 | 0.04839 | 106 | 0.00986 | |
| | 49 | 0.31338 | 58 | 0.20451 | 71 | 0.10087 | 82 | 0.05159 | 105 | 0.01062 | |
| 0.15 | 86 | 0.29980 | 104 | 0.19447 | 126 | 0.09874 | 146 | 0.04960 | 188 | 0.00969 | |
| | 87 | 0.30745 | 103 | 0.20012 | 125 | 0.10203 | 145 | 0.05141 | 187 | 0.01010 | |
| 0.10 | 197 | 0.25845 | 231 | 0.19847 | 282 | 0.09889 | 327 | 0.04568 | 420 | 0.00998 | |
| | 196 | 0.30182 | 230 | 0.20101 | 281 | 0.10034 | 326 | 0.05048 | 419 | 0.01016 | |
| 0.05 | 783 | 0.29983 | 919 | 0.19951 | 1122 | 0.09985 | 1304 | 0.04981 | 1677 | 0.00996 | |
| | 782 | 0.30068 | 918 | 0.20015 | 1121 | 0.10021 | 1303 | 0.05001 | 1676 | 0.01001 | |
| 0.01 | 19544 | 0.29997 | 22929 | 0.19999 | 28013 | 0.09999 | 32550 | 0.04999 | 41881 | 0.00999 | |
| | 19543 | 0.30000 | 22928 | 0.20002 | 28012 | 0.10000 | 32549 | 0.05000 | 41880 | 0.01000 | |

| K = 10 BETA = LAMBDA | ALPHA = 0.05 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|------|--|------|--|
| | 0.30 | | | | | | | | | |
| 1.00 | 3 0.09158 2 0.43426 | 3 0.09158 2 0.43426 | 3 0.09158 2 0.43426 | 3 0.09158 2 0.43426 | 4 0.01213 3 0.09158 | 5 0.00117 4 0.01213 | | | | |
| 0.95 | 3 0.12832 2 0.48405 | 3 0.12832 2 0.48405 | 4 0.02260 3 0.12832 | 4 0.02260 3 0.12832 | 5 0.00300 4 0.02260 | | | | | |
| 0.90 | 3 0.17389 2 0.53370 | 3 0.17389 2 0.53370 | 4 0.03971 3 0.17389 | 4 0.03971 3 0.17389 | 5 0.00705 4 0.03971 | | | | | |
| 0.85 | 3 0.22819 2 0.58239 | 4 0.06592 3 0.22819 | 4 0.06592 3 0.22819 | 5 0.01527 4 0.06592 | 6 0.00299 5 0.01527 | | | | | |
| 0.80 | 3 0.29035 2 0.62932 | 4 0.10358 3 0.29035 | 5 0.03051 4 0.10358 | 5 0.03051 4 0.10358 | 6 0.00775 5 0.03051 | | | | | |
| 0.75 | 4 0.15435 3 0.35872 | 4 0.15435 3 0.35872 | 5 0.05641 4 0.15435 | 6 0.01812 5 0.05641 | 7 0.00524 6 0.01812 | | | | | |
| 0.70 | 4 0.21861 3 0.43107 | 5 0.09673 4 0.21861 | 5 0.09673 4 0.21861 | 6 0.03834 5 0.09673 | 8 0.00465 7 0.01388 | | | | | |
| 0.65 | 4 0.29507 3 0.50474 | 5 0.15433 4 0.29507 | 6 0.07364 5 0.15433 | 7 0.03254 6 0.07364 | 9 0.00527 8 0.01347 | | | | | |
| 0.60 | 5 0.22994 4 0.38068 | 6 0.12892 5 0.22994 | 7 0.06783 6 0.12892 | 8 0.03378 7 0.06783 | 10 0.00730 9 0.01604 | | | | | |
| 0.55 | 6 0.20671 5 0.32129 | 7 0.12638 6 0.20671 | 8 0.07389 7 0.12638 | 9 0.04154 8 0.07389 | 12 0.00606 11 0.01186 | | | | | |
| 0.50 | 7 0.21182 6 0.30529 | 8 0.14190 7 0.21182 | 9 0.09212 8 0.14190 | 11 0.03576 10 0.05814 | 14 0.00729 13 0.01264 | | | | | |
| 0.45 | 8 0.24124 7 0.32180 | 9 0.17657 8 0.24124 | 11 0.08875 10 0.12644 | 13 0.04144 12 0.06116 | 17 0.00754 16 0.01178 | | | | | |
| 0.40 | 9 0.29569 8 0.36676 | 11 0.18343 10 0.23462 | 14 0.08099 13 0.10767 | 16 0.04433 15 0.06024 | 21 0.00833 20 0.01184 | | | | | |
| 0.35 | 12 0.27017 11 0.32062 | 14 0.18678 13 0.22561 | 18 0.08124 17 0.10112 | 21 0.04054 20 0.05142 | 27 0.00870 26 0.01138 | | | | | |
| 0.30 | 16 0.27063 15 0.30714 | 19 0.17992 18 0.20709 | 23 0.09830 22 0.11502 | 28 0.04250 27 0.05060 | 36 0.00949 35 0.01155 | | | | | |
| 0.25 | 22 0.28683 21 0.31284 | 26 0.19801 25 0.21796 | 33 0.09549 32 0.10658 | 39 0.04763 38 0.05370 | 52 0.00881 51 0.01010 | | | | | |
| 0.20 | 34 0.28502 33 0.30142 | 40 0.19972 39 0.21240 | 51 0.09601 50 0.10303 | 60 0.04933 59 0.05326 | 80 0.00942 79 0.01029 | | | | | |
| 0.15 | 59 0.29211 58 0.30141 | 71 0.19588 70 0.20283 | 89 0.09991 88 0.10394 | 106 0.04933 105 0.05151 | 141 0.00969 140 0.01018 | | | | | |
| 0.10 | 130 0.29905 129 0.30322 | 158 0.19797 157 0.20107 | 200 0.09849 199 0.10024 | 237 0.04975 236 0.05071 | 315 0.00994 314 0.01016 | | | | | |
| 0.05 | 517 0.29952 516 0.30056 | 627 0.19987 626 0.20065 | 795 0.09956 794 0.10000 | 945 0.04986 944 0.05010 | 1257 0.00997 1256 0.01002 | | | | | |
| 0.01 | 12894 0.29997 12893 0.30001 | 15651 0.19998 15650 0.20001 | 19830 0.09999 19829 0.10001 | 23591 0.04999 23590 0.05000 | 31392 0.00999 31391 0.01000 | | | | | |

| K = 10 BETA = LAMBDA | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|------|--|------|--|
| | | 0.30 | | | | | | | | |
| 1.00 | 4 0.07062 3 0.30130 | 4 0.07062 3 0.30130 | 4 0.07062 3 0.30130 | 4 0.07062 3 0.30130 | 5 0.01123 4 0.07062 | 6 0.00134 5 0.01123 | | | | |
| 0.95 | 4 0.10914 3 0.36865 | 4 0.10914 3 0.36865 | 5 0.02293 4 0.10914 | 5 0.02293 4 0.10914 | 6 0.00372 5 0.02293 | | | | | |
| 0.90 | 4 0.16059 3 0.43995 | 4 0.16059 3 0.43995 | 5 0.04342 4 0.16059 | 5 0.04342 4 0.16059 | 6 0.00932 5 0.04342 | | | | | |
| 0.85 | 4 0.22537 3 0.51281 | 5 0.07650 4 0.22537 | 5 0.07650 4 0.22537 | 6 0.02120 5 0.07650 | 7 0.00499 6 0.02120 | | | | | |
| 0.80 | 5 0.12563 4 0.30231 | 5 0.12563 4 0.30231 | 6 0.04379 5 0.12563 | 6 0.04379 5 0.12563 | 8 0.00355 7 0.01323 | | | | | |
| 0.75 | 5 0.19289 4 0.38857 | 5 0.19289 4 0.38857 | 6 0.08244 5 0.19289 | 7 0.03112 6 0.08244 | 9 0.00329 8 0.01059 | | | | | |
| 0.70 | 5 0.27780 4 0.47993 | 6 0.14198 5 0.27780 | 7 0.06530 6 0.14198 | 8 0.02745 7 0.06530 | 10 0.00389 9 0.01068 | | | | | |
| 0.65 | 6 0.22465 5 0.37679 | 7 0.12274 6 0.22465 | 8 0.06217 7 0.12274 | 9 0.02947 8 0.06217 | 11 0.00560 10 0.01319 | | | | | |
| 0.60 | 7 0.20780 6 0.32828 | 8 0.12362 7 0.20780 | 9 0.06961 8 0.12362 | 10 0.03732 9 0.06961 | 12 0.00945 11 0.01915 | | | | | |
| 0.55 | 8 0.21743 7 0.31906 | 9 0.14175 8 0.21743 | 10 0.08879 9 0.14175 | 12 0.03136 11 0.05364 | 14 0.00982 13 0.01779 | | | | | |
| 0.50 | 9 0.25124 8 0.34122 | 10 0.17927 9 0.25124 | 12 0.08391 11 0.12428 | 14 0.03561 13 0.05528 | 17 0.00844 16 0.01390 | | | | | |
| 0.45 | 11 0.24117 10 0.31083 | 12 0.18335 11 0.24117 | 15 0.07224 14 0.10023 | 17 0.03585 16 0.05127 | 21 0.00753 20 0.01133 | | | | | |
| 0.40 | 13 0.27393 12 0.33256 | 15 0.17880 14 0.22269 | 18 0.08644 17 0.11133 | 21 0.03816 20 0.05058 | 26 0.00825 25 0.01138 | | | | | |
| 0.35 | 17 0.25894 16 0.30160 | 19 0.18663 18 0.22063 | 23 0.08936 22 0.10845 | 26 0.04828 25 0.05961 | 33 0.00962 32 0.01228 | | | | | |
| 0.30 | 22 0.28152 21 0.31416 | 25 0.19765 24 0.22327 | 31 0.08814 30 0.10170 | 35 0.04820 34 0.05630 | 45 0.00881 44 0.01056 | | | | | |
| 0.25 | 31 0.28579 30 0.30843 | 36 0.18953 35 0.20654 | 43 0.09889 42 0.10906 | 50 0.04775 49 0.05522 | 64 0.00917 63 0.01040 | | | | | |
| 0.20 | 47 0.29753 46 0.31227 | 55 0.19629 54 0.20733 | 67 0.09624 66 0.10251 | 77 0.04948 76 0.05302 | 99 0.00946 98 0.01025 | | | | | |
| 0.15 | 83 0.29514 82 0.30333 | 97 0.19586 96 0.20200 | 118 0.09715 117 0.10066 | 136 0.04956 135 0.05153 | 174 0.00997 173 0.01042 | | | | | |
| 0.10 | 185 0.29655 184 0.30018 | 216 0.19827 215 0.20101 | 263 0.09891 262 0.10049 | 305 0.04925 304 0.05011 | 390 0.00999 389 0.01020 | | | | | |
| 0.05 | 733 0.29995 732 0.30086 | 859 0.19946 858 0.20015 | 1046 0.09999 1045 0.10039 | 1214 0.04984 1213 0.05005 | 1557 0.00998 1556 0.01003 | | | | | |
| 0.01 | 18298 0.29996 18297 0.30000 | 21429 0.19999 21428 0.20002 | 26123 0.09999 26122 0.10001 | 30306 0.04999 30305 0.05000 | 38893 0.00999 38892 0.01000 | | | | | |

| K = 11 | | ALPHA = 0.05 | | | | | | | | | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 3 | 0.07023 | 3 | 0.07023 | 3 | 0.07023 | 4 | 0.00743 | 4 | 0.00743 | |
| | 2 | 0.35703 | 2 | 0.39703 | 2 | 0.39703 | 3 | 0.07023 | 3 | 0.07023 | |
| 0.95 | 3 | 0.10252 | 3 | 0.10252 | 4 | 0.01489 | 4 | 0.01489 | 5 | 0.00158 | |
| | 2 | 0.44890 | 2 | 0.44890 | 3 | 0.10252 | 3 | 0.10252 | 4 | 0.01489 | |
| 0.90 | 3 | 0.14416 | 3 | 0.14416 | 4 | 0.02794 | 4 | 0.02794 | 5 | 0.00410 | |
| | 2 | 0.50124 | 2 | 0.50124 | 3 | 0.14416 | 3 | 0.14416 | 4 | 0.02794 | |
| 0.85 | 3 | 0.19547 | 3 | 0.19547 | 4 | 0.04922 | 4 | 0.04922 | 5 | 0.00971 | |
| | 2 | 0.55305 | 2 | 0.55305 | 3 | 0.19547 | 3 | 0.19547 | 4 | 0.04922 | |
| 0.80 | 3 | 0.25599 | 4 | 0.08153 | 4 | 0.08153 | 5 | 0.02100 | 6 | 0.00459 | |
| | 2 | 0.60339 | 3 | 0.25599 | 3 | 0.25599 | 4 | 0.08153 | 5 | 0.02100 | |
| 0.75 | 4 | 0.12726 | 4 | 0.12726 | 5 | 0.04164 | 5 | 0.04164 | 7 | 0.00298 | |
| | 3 | 0.32430 | 3 | 0.32430 | 4 | 0.12726 | 4 | 0.12726 | 6 | 0.01181 | |
| 0.70 | 4 | 0.18764 | 4 | 0.18764 | 5 | 0.07595 | 6 | 0.02721 | 7 | 0.00881 | |
| | 3 | 0.39816 | 3 | 0.39816 | 4 | 0.18764 | 5 | 0.07595 | 6 | 0.02721 | |
| 0.65 | 4 | 0.26211 | 5 | 0.12779 | 6 | 0.05625 | 7 | 0.02274 | 8 | 0.00855 | |
| | 3 | 0.47472 | 4 | 0.26211 | 5 | 0.12779 | 6 | 0.05625 | 7 | 0.02274 | |
| 0.60 | 5 | 0.19917 | 5 | 0.19917 | 7 | 0.05145 | 8 | 0.02375 | 10 | 0.00435 | |
| | 4 | 0.34803 | 4 | 0.34803 | 6 | 0.10487 | 7 | 0.05145 | 9 | 0.01040 | |
| 0.55 | 5 | 0.28889 | 6 | 0.17727 | 8 | 0.05669 | 9 | 0.02993 | 11 | 0.00745 | |
| | 4 | 0.44088 | 5 | 0.28889 | 7 | 0.10277 | 8 | 0.05669 | 10 | 0.01520 | |
| 0.50 | 6 | 0.27337 | 7 | 0.18240 | 9 | 0.07250 | 10 | 0.04353 | 13 | 0.00802 | |
| | 5 | 0.39207 | 6 | 0.27337 | 8 | 0.11702 | 9 | 0.07250 | 12 | 0.01444 | |
| 0.45 | 7 | 0.29009 | 9 | 0.14929 | 11 | 0.06967 | 12 | 0.04611 | 16 | 0.00743 | |
| | 6 | 0.36744 | 8 | 0.21091 | 10 | 0.10313 | 11 | 0.06967 | 15 | 0.01201 | |
| 0.40 | 9 | 0.26445 | 11 | 0.15591 | 13 | 0.08642 | 15 | 0.04540 | 20 | 0.00748 | |
| | 8 | 0.33553 | 10 | 0.20474 | 12 | 0.11691 | 14 | 0.06303 | 19 | 0.01094 | |
| 0.35 | 11 | 0.28945 | 13 | 0.19624 | 17 | 0.08070 | 19 | 0.04932 | 25 | 0.00961 | |
| | 10 | 0.34601 | 12 | 0.23954 | 16 | 0.10206 | 18 | 0.06332 | 24 | 0.01281 | |
| 0.30 | 15 | 0.27624 | 18 | 0.17864 | 22 | 0.09316 | 26 | 0.04534 | 34 | 0.00905 | |
| | 14 | 0.31590 | 17 | 0.20768 | 21 | 0.11038 | 25 | 0.05460 | 33 | 0.01119 | |
| 0.25 | 21 | 0.28208 | 25 | 0.18917 | 31 | 0.09658 | 37 | 0.04572 | 48 | 0.00987 | |
| | 20 | 0.30961 | 24 | 0.20986 | 30 | 0.10864 | 36 | 0.05204 | 47 | 0.01143 | |
| 0.20 | 32 | 0.28780 | 38 | 0.19671 | 48 | 0.09629 | 57 | 0.04702 | 75 | 0.00944 | |
| | 31 | 0.30545 | 37 | 0.21015 | 47 | 0.10385 | 56 | 0.05108 | 74 | 0.01037 | |
| 0.15 | 55 | 0.29995 | 67 | 0.19597 | 84 | 0.09912 | 100 | 0.04853 | 132 | 0.00978 | |
| | 54 | 0.31007 | 66 | 0.20343 | 83 | 0.10341 | 99 | 0.05084 | 131 | 0.01032 | |
| 0.10 | 123 | 0.29863 | 149 | 0.19828 | 188 | 0.09903 | 223 | 0.04950 | 296 | 0.00977 | |
| | 122 | 0.30308 | 148 | 0.20159 | 187 | 0.10092 | 222 | 0.05053 | 295 | 0.01001 | |
| 0.05 | 488 | 0.29918 | 592 | 0.19951 | 748 | 0.09974 | 888 | 0.04989 | 1178 | 0.00998 | |
| | 486 | 0.30029 | 591 | 0.20034 | 747 | 0.10021 | 887 | 0.05014 | 1177 | 0.01004 | |
| 0.01 | 12187 | 0.29998 | 14766 | 0.19998 | 18667 | 0.09998 | 22170 | 0.04999 | 29434 | 0.00999 | |
| | 12186 | 0.30002 | 14765 | 0.20001 | 18666 | 0.10000 | 22169 | 0.05000 | 29433 | 0.01000 | |

| K = 11 | | ALPHA = 0.01 | | | | | | | | | |
|--------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|------|--|------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 3 0.25221 2 0.71673 | 4 0.04867 3 0.25221 | 4 0.04867 3 0.25221 | 4 0.04867 3 0.25221 | 4 0.04867 3 0.25221 | 5 0.00614 4 0.04867 | | | | | |
| 0.95 | 4 0.08000 3 0.31846 | 4 0.08000 3 0.31846 | 4 0.08000 3 0.31846 | 4 0.08000 3 0.31846 | 4 0.08000 3 0.31846 | 5 0.01378 4 0.08000 | | | | | |
| 0.90 | 4 0.12437 3 0.39070 | 4 0.12437 3 0.39070 | 4 0.12437 3 0.39070 | 5 0.02842 4 0.12437 | 5 0.02842 4 0.12437 | 6 0.00504 5 0.02842 | | | | | |
| 0.85 | 4 0.18324 3 0.46645 | 4 0.18324 3 0.46645 | 4 0.18324 3 0.46645 | 5 0.05406 4 0.18324 | 5 0.05406 4 0.18324 | 7 0.00252 6 0.01276 | | | | | |
| 0.80 | 4 0.25645 3 0.54286 | 5 0.09499 4 0.25645 | 5 0.09499 4 0.25645 | 5 0.09499 4 0.25645 | 5 0.09499 4 0.25645 | 7 0.00755 6 0.02897 | | | | | |
| 0.75 | 5 0.15471 4 0.34184 | 5 0.15471 4 0.34184 | 5 0.15471 4 0.34184 | 6 0.05931 5 0.15471 | 6 0.05931 5 0.15471 | 8 0.00591 7 0.01983 | | | | | |
| 0.70 | 5 0.23437 4 0.43536 | 6 0.10984 5 0.23437 | 6 0.10984 5 0.23437 | 7 0.04581 6 0.10984 | 7 0.04581 6 0.10984 | 9 0.00600 8 0.01730 | | | | | |
| 0.65 | 6 0.18489 5 0.33169 | 6 0.18489 5 0.33169 | 6 0.18489 5 0.33169 | 7 0.09352 6 0.18489 | 7 0.09352 6 0.18489 | 10 0.00763 9 0.01882 | | | | | |
| 0.60 | 6 0.28447 5 0.44069 | 7 0.16978 6 0.28447 | 7 0.16978 6 0.28447 | 8 0.09457 7 0.16978 | 8 0.09457 7 0.16978 | 12 0.00528 11 0.01165 | | | | | |
| 0.55 | 7 0.27606 6 0.40275 | 8 0.17912 7 0.27606 | 8 0.17912 7 0.27606 | 10 0.06537 9 0.11063 | 10 0.06537 9 0.11063 | 14 0.00553 13 0.01076 | | | | | |
| 0.50 | 8 0.29838 7 0.40559 | 10 0.14446 9 0.21128 | 10 0.14446 9 0.21128 | 11 0.09566 10 0.14446 | 11 0.09566 10 0.14446 | 16 0.00819 15 0.01402 | | | | | |
| 0.45 | 10 0.26907 9 0.34949 | 12 0.14849 11 0.20217 | 12 0.14849 11 0.20217 | 14 0.07530 13 0.10679 | 14 0.07530 13 0.10679 | 20 0.00653 19 0.01018 | | | | | |
| 0.40 | 12 0.29083 11 0.35626 | 14 0.18515 13 0.23376 | 14 0.18515 13 0.23376 | 17 0.08491 16 0.11150 | 17 0.08491 16 0.11150 | 24 0.00936 23 0.01320 | | | | | |
| 0.35 | 16 0.26090 15 0.30704 | 18 0.18352 17 0.21574 | 18 0.18352 17 0.21574 | 22 0.08260 21 0.10196 | 22 0.08260 21 0.10196 | 31 0.00940 30 0.01223 | | | | | |
| 0.30 | 21 0.27350 20 0.30794 | 24 0.18625 23 0.21267 | 24 0.18625 23 0.21267 | 29 0.09007 28 0.10499 | 29 0.09007 28 0.10499 | 42 0.00905 41 0.01099 | | | | | |
| 0.25 | 29 0.29151 28 0.31612 | 34 0.18777 33 0.20595 | 34 0.18777 33 0.20595 | 41 0.09290 40 0.10332 | 41 0.09290 40 0.10332 | 60 0.00906 59 0.01037 | | | | | |
| 0.20 | 45 0.28710 44 0.30255 | 52 0.19373 51 0.20549 | 52 0.19373 51 0.20549 | 63 0.09589 62 0.10262 | 63 0.09589 62 0.10262 | 93 0.00918 92 0.01001 | | | | | |
| 0.15 | 76 0.29723 77 0.30605 | 91 0.19775 90 0.20440 | 91 0.19775 90 0.20440 | 111 0.09653 110 0.10029 | 111 0.09653 110 0.10029 | 163 0.00988 162 0.01037 | | | | | |
| 0.10 | 174 0.25791 173 0.30182 | 203 0.19900 202 0.20195 | 203 0.19900 202 0.20195 | 247 0.09890 246 0.10059 | 247 0.09890 246 0.10059 | 365 0.00997 364 0.01019 | | | | | |
| 0.05 | 691 0.29970 690 0.30067 | 808 0.19961 807 0.20035 | 808 0.19961 807 0.20035 | 983 0.09967 982 0.10009 | 983 0.09967 982 0.10009 | 1457 0.00996 1456 0.01001 | | | | | |
| 0.01 | 17241 0.29998 17240 0.30002 | 20161 0.19997 20160 0.20000 | 20161 0.19997 20160 0.20000 | 24530 0.09998 24529 0.10000 | 24530 0.09998 24529 0.10000 | 36384 0.00999 36383 0.01000 | | | | | |

| K = 12 | | ALPHA = 0.05 | | | | | | | | | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 3 | 0.05356 | 3 | 0.05356 | 3 | 0.05356 | 4 | 0.00452 | 4 | 0.00452 | |
| | 2 | 0.36222 | 2 | 0.36222 | 2 | 0.36222 | 3 | 0.05356 | 3 | 0.05356 | |
| 0.95 | 3 | 0.08154 | 3 | 0.08154 | 3 | 0.08154 | 4 | 0.00974 | 4 | 0.00974 | |
| | 2 | 0.41559 | 2 | 0.41559 | 2 | 0.41559 | 3 | 0.08154 | 3 | 0.08154 | |
| 0.90 | 3 | 0.11905 | 3 | 0.11905 | 4 | 0.01954 | 4 | 0.01954 | 5 | 0.00237 | |
| | 2 | 0.47011 | 2 | 0.47011 | 3 | 0.11905 | 3 | 0.11905 | 4 | 0.01954 | |
| 0.85 | 3 | 0.16693 | 3 | 0.16693 | 4 | 0.03656 | 4 | 0.03656 | 5 | 0.00613 | |
| | 2 | 0.52464 | 2 | 0.52464 | 3 | 0.16693 | 3 | 0.16693 | 4 | 0.03656 | |
| 0.80 | 3 | 0.22515 | 4 | 0.06390 | 4 | 0.06390 | 5 | 0.01436 | 6 | 0.00270 | |
| | 2 | 0.57809 | 3 | 0.22515 | 3 | 0.22515 | 4 | 0.06390 | 5 | 0.01436 | |
| 0.75 | 3 | 0.29263 | 4 | 0.10455 | 5 | 0.03059 | 5 | 0.03059 | 6 | 0.00765 | |
| | 2 | 0.62941 | 3 | 0.29263 | 4 | 0.10455 | 4 | 0.10455 | 5 | 0.03059 | |
| 0.70 | 4 | 0.16061 | 4 | 0.16061 | 5 | 0.05938 | 6 | 0.01920 | 7 | 0.00556 | |
| | 3 | 0.36725 | 3 | 0.36725 | 4 | 0.16061 | 5 | 0.05938 | 6 | 0.01920 | |
| 0.65 | 4 | 0.23235 | 5 | 0.10547 | 6 | 0.04278 | 6 | 0.04278 | 8 | 0.00539 | |
| | 3 | 0.44604 | 4 | 0.23235 | 5 | 0.10547 | 5 | 0.10547 | 7 | 0.01580 | |
| 0.60 | 5 | 0.17210 | 5 | 0.17210 | 6 | 0.08503 | 7 | 0.03886 | 9 | 0.00670 | |
| | 4 | 0.31771 | 4 | 0.31771 | 5 | 0.17210 | 6 | 0.08503 | 8 | 0.01662 | |
| 0.55 | 5 | 0.25931 | 6 | 0.15166 | 7 | 0.08329 | 8 | 0.04331 | 11 | 0.00466 | |
| | 4 | 0.41229 | 5 | 0.25931 | 6 | 0.15166 | 7 | 0.08329 | 10 | 0.01019 | |
| 0.50 | 6 | 0.24436 | 7 | 0.15669 | 8 | 0.09622 | 10 | 0.03245 | 12 | 0.00965 | |
| | 5 | 0.36293 | 6 | 0.24436 | 7 | 0.15669 | 9 | 0.05685 | 11 | 0.01795 | |
| 0.45 | 7 | 0.26110 | 8 | 0.18402 | 10 | 0.08386 | 12 | 0.03463 | 15 | 0.00789 | |
| | 6 | 0.35859 | 7 | 0.26110 | 9 | 0.12590 | 11 | 0.05450 | 14 | 0.01316 | |
| 0.40 | 9 | 0.23612 | 10 | 0.17830 | 12 | 0.09636 | 14 | 0.04888 | 19 | 0.00714 | |
| | 8 | 0.30656 | 9 | 0.23612 | 11 | 0.13220 | 13 | 0.06914 | 18 | 0.01073 | |
| 0.35 | 11 | 0.26093 | 13 | 0.17034 | 16 | 0.08309 | 18 | 0.04918 | 24 | 0.00850 | |
| | 10 | 0.31732 | 12 | 0.21202 | 15 | 0.10658 | 17 | 0.06420 | 23 | 0.01158 | |
| 0.30 | 14 | 0.28739 | 17 | 0.18142 | 21 | 0.09064 | 25 | 0.04183 | 32 | 0.00923 | |
| | 13 | 0.33071 | 16 | 0.21280 | 20 | 0.10867 | 24 | 0.05110 | 31 | 0.01158 | |
| 0.25 | 20 | 0.28129 | 24 | 0.18363 | 30 | 0.08913 | 35 | 0.04568 | 46 | 0.00882 | |
| | 19 | 0.31053 | 23 | 0.20520 | 29 | 0.10118 | 34 | 0.05245 | 45 | 0.01033 | |
| 0.20 | 30 | 0.29559 | 36 | 0.19762 | 45 | 0.09990 | 54 | 0.04658 | 71 | 0.00919 | |
| | 29 | 0.31469 | 35 | 0.21199 | 44 | 0.10823 | 53 | 0.05088 | 70 | 0.01017 | |
| 0.15 | 53 | 0.29229 | 64 | 0.19258 | 80 | 0.09722 | 94 | 0.04583 | 125 | 0.00950 | |
| | 52 | 0.30286 | 63 | 0.20041 | 79 | 0.10152 | 93 | 0.05236 | 124 | 0.01005 | |
| 0.10 | 117 | 0.29797 | 141 | 0.19942 | 178 | 0.09894 | 211 | 0.04925 | 279 | 0.00980 | |
| | 116 | 0.30270 | 140 | 0.20296 | 177 | 0.10095 | 210 | 0.05035 | 278 | 0.01005 | |
| 0.05 | 464 | 0.29978 | 561 | 0.19989 | 708 | 0.09970 | 839 | 0.04994 | 1111 | 0.00995 | |
| | 463 | 0.30096 | 560 | 0.20077 | 707 | 0.10021 | 838 | 0.05022 | 1110 | 0.01002 | |
| 0.01 | 11576 | 0.29998 | 14003 | 0.19997 | 17666 | 0.09999 | 20951 | 0.04999 | 27740 | 0.00999 | |
| | 11575 | 0.30003 | 14002 | 0.20000 | 17665 | 0.10001 | 20950 | 0.05000 | 27739 | 0.01000 | |

| K = 12 | | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|--------|-------|--------------|-------|---------|-------|---------|-------|---------|-------|---------|--|
| BETA = | | 0.30 | | | | | | | | | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 3 | 0.20953 | 4 | 0.03314 | 4 | 0.03314 | 4 | 0.03314 | 5 | 0.00330 | |
| | 2 | 0.66627 | 3 | 0.20953 | 3 | 0.20953 | 3 | 0.20953 | 4 | 0.03314 | |
| 0.95 | 3 | 0.27336 | 4 | 0.05803 | 4 | 0.05803 | 5 | 0.00816 | 5 | 0.00816 | |
| | 2 | 0.72963 | 3 | 0.27336 | 3 | 0.27336 | 4 | 0.05803 | 4 | 0.05803 | |
| 0.90 | 4 | 0.09546 | 4 | 0.09546 | 4 | 0.09546 | 5 | 0.01838 | 6 | 0.00269 | |
| | 3 | 0.34516 | 3 | 0.34516 | 3 | 0.34516 | 4 | 0.09546 | 5 | 0.01838 | |
| 0.85 | 4 | 0.14787 | 4 | 0.14787 | 5 | 0.03780 | 5 | 0.03780 | 6 | 0.00757 | |
| | 3 | 0.42250 | 3 | 0.42250 | 4 | 0.14787 | 4 | 0.14787 | 5 | 0.03780 | |
| 0.80 | 4 | 0.21620 | 5 | 0.07119 | 5 | 0.07119 | 6 | 0.01895 | 7 | 0.00425 | |
| | 3 | 0.50232 | 4 | 0.21620 | 4 | 0.21620 | 5 | 0.07119 | 6 | 0.01895 | |
| 0.75 | 4 | 0.29925 | 5 | 0.12318 | 6 | 0.04226 | 6 | 0.04226 | 8 | 0.00326 | |
| | 3 | 0.58132 | 4 | 0.29925 | 5 | 0.12318 | 5 | 0.12318 | 7 | 0.01249 | |
| 0.70 | 5 | 0.19657 | 5 | 0.19657 | 6 | 0.08430 | 7 | 0.03182 | 9 | 0.00333 | |
| | 4 | 0.39342 | 4 | 0.39342 | 5 | 0.19657 | 6 | 0.08430 | 8 | 0.01078 | |
| 0.65 | 5 | 0.29065 | 6 | 0.15121 | 7 | 0.07069 | 8 | 0.03015 | 10 | 0.00436 | |
| | 4 | 0.49218 | 5 | 0.29065 | 6 | 0.15121 | 7 | 0.07069 | 9 | 0.01188 | |
| 0.60 | 6 | 0.24531 | 7 | 0.13784 | 8 | 0.07179 | 9 | 0.03498 | 11 | 0.00790 | |
| | 5 | 0.40033 | 6 | 0.24531 | 7 | 0.13784 | 8 | 0.07179 | 10 | 0.01607 | |
| 0.55 | 7 | 0.23772 | 8 | 0.14669 | 9 | 0.08573 | 10 | 0.04773 | 13 | 0.00643 | |
| | 6 | 0.36258 | 7 | 0.23772 | 8 | 0.14669 | 9 | 0.08573 | 12 | 0.01303 | |
| 0.50 | 8 | 0.25978 | 9 | 0.17673 | 11 | 0.07310 | 12 | 0.04473 | 15 | 0.00866 | |
| | 7 | 0.36605 | 8 | 0.25978 | 10 | 0.11568 | 11 | 0.07310 | 14 | 0.01536 | |
| 0.45 | 10 | 0.23188 | 11 | 0.16858 | 13 | 0.08281 | 15 | 0.03730 | 18 | 0.00982 | |
| | 9 | 0.31046 | 10 | 0.23188 | 12 | 0.11953 | 14 | 0.05614 | 17 | 0.01558 | |
| 0.40 | 12 | 0.25329 | 13 | 0.19853 | 16 | 0.08706 | 18 | 0.04688 | 23 | 0.00814 | |
| | 11 | 0.31763 | 12 | 0.25329 | 15 | 0.11629 | 17 | 0.06430 | 22 | 0.01179 | |
| 0.35 | 15 | 0.26944 | 17 | 0.18559 | 20 | 0.09901 | 23 | 0.04906 | 29 | 0.00999 | |
| | 14 | 0.31578 | 16 | 0.22472 | 19 | 0.12314 | 22 | 0.06247 | 28 | 0.01322 | |
| 0.30 | 20 | 0.27064 | 23 | 0.17918 | 27 | 0.09646 | 31 | 0.04840 | 40 | 0.00825 | |
| | 19 | 0.30718 | 22 | 0.20667 | 26 | 0.11340 | 30 | 0.05786 | 39 | 0.01018 | |
| 0.25 | 28 | 0.27894 | 32 | 0.19138 | 39 | 0.09025 | 44 | 0.04949 | 56 | 0.00975 | |
| | 27 | 0.30448 | 31 | 0.21108 | 38 | 0.10115 | 43 | 0.05603 | 55 | 0.01126 | |
| 0.20 | 42 | 0.25780 | 49 | 0.19644 | 59 | 0.09961 | 69 | 0.04628 | 87 | 0.00967 | |
| | 41 | 0.31467 | 48 | 0.20913 | 58 | 0.10705 | 68 | 0.05014 | 86 | 0.01061 | |
| 0.15 | 74 | 0.29648 | 86 | 0.19857 | 104 | 0.09994 | 121 | 0.04811 | 154 | 0.00960 | |
| | 73 | 0.30587 | 85 | 0.20569 | 103 | 0.10409 | 120 | 0.05033 | 153 | 0.01011 | |
| 0.10 | 165 | 0.25734 | 192 | 0.19921 | 233 | 0.09941 | 270 | 0.04905 | 344 | 0.00987 | |
| | 164 | 0.30149 | 191 | 0.20236 | 232 | 0.10123 | 269 | 0.05004 | 343 | 0.01010 | |
| 0.05 | 655 | 0.29931 | 764 | 0.19992 | 928 | 0.09982 | 1074 | 0.04976 | 1371 | 0.00998 | |
| | 654 | 0.30035 | 763 | 0.20071 | 927 | 0.10028 | 1073 | 0.05001 | 1370 | 0.01004 | |
| 0.01 | 16333 | 0.29997 | 19072 | 0.19998 | 23165 | 0.09998 | 26801 | 0.04999 | 34245 | 0.00999 | |
| | 16332 | 0.30001 | 19071 | 0.20001 | 23164 | 0.10000 | 26800 | 0.05000 | 34244 | 0.01000 | |

| K = 13 | | ALPHA = 0.05 | | | | | | | | | |
|--------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| BETA = | | 0.30 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
| LAMBDA | | | | | | | | | | | |
| 1.00 | 3 0.04066 2 0.32979 | 3 0.04066 2 0.32979 | 3 0.04066 2 0.32979 | 3 0.04066 2 0.32979 | 3 0.04066 2 0.32979 | 3 0.04066 2 0.32979 | 3 0.04066 2 0.32979 | 3 0.04066 2 0.32979 | 3 0.04066 2 0.32979 | 4 0.00272 3 0.04066 | 4 0.00272 3 0.04066 |
| 0.95 | 3 0.06458 2 0.38412 | 3 0.06458 2 0.38412 | 3 0.06458 2 0.38412 | 3 0.06458 2 0.38412 | 3 0.06458 2 0.38412 | 3 0.06458 2 0.38412 | 3 0.06458 2 0.38412 | 4 0.00633 3 0.06458 | 4 0.00633 3 0.06458 | 4 0.00633 3 0.06458 | 4 0.00633 3 0.06458 |
| 0.90 | 3 0.09797 2 0.44035 | 3 0.09797 2 0.44035 | 3 0.09797 2 0.44035 | 3 0.09797 2 0.44035 | 3 0.09797 2 0.44035 | 3 0.09797 2 0.44035 | 3 0.09797 2 0.44035 | 4 0.01359 3 0.09797 | 4 0.01359 3 0.09797 | 5 0.00135 4 0.01359 | 5 0.00135 4 0.01359 |
| 0.85 | 3 0.14214 2 0.49721 | 3 0.14214 2 0.49721 | 3 0.14214 2 0.49721 | 3 0.14214 2 0.49721 | 3 0.14214 2 0.49721 | 4 0.02703 3 0.14214 | 4 0.02703 3 0.14214 | 4 0.02703 3 0.14214 | 4 0.02703 3 0.14214 | 5 0.00384 4 0.02703 | 5 0.00384 4 0.02703 |
| 0.80 | 3 0.19756 2 0.55345 | 3 0.19756 2 0.55345 | 3 0.19756 2 0.55345 | 3 0.19756 2 0.55345 | 3 0.19756 2 0.55345 | 4 0.04988 3 0.19756 | 4 0.04988 3 0.19756 | 4 0.04988 3 0.19756 | 4 0.04988 3 0.19756 | 5 0.00977 4 0.04988 | 5 0.00977 4 0.04988 |
| 0.75 | 3 0.26357 2 0.60785 | 4 0.08562 3 0.26357 | 4 0.08562 3 0.26357 | 4 0.08562 3 0.26357 | 4 0.08562 3 0.26357 | 4 0.08562 3 0.26357 | 4 0.08562 3 0.26357 | 5 0.02237 4 0.08562 | 5 0.02237 4 0.08562 | 6 0.00493 5 0.02237 | 6 0.00493 5 0.02237 |
| 0.70 | 4 0.13713 3 0.33828 | 4 0.13713 3 0.33828 | 4 0.13713 3 0.33828 | 4 0.13713 3 0.33828 | 4 0.13713 3 0.33828 | 5 0.04626 4 0.13713 | 5 0.04626 4 0.13713 | 5 0.04626 4 0.13713 | 5 0.04626 4 0.13713 | 7 0.00349 6 0.01348 | 7 0.00349 6 0.01348 |
| 0.65 | 4 0.20558 3 0.41869 | 5 0.08679 4 0.20558 | 5 0.08679 4 0.20558 | 5 0.08679 4 0.20558 | 5 0.08679 4 0.20558 | 5 0.08679 4 0.20558 | 5 0.08679 4 0.20558 | 6 0.03240 5 0.08679 | 6 0.03240 5 0.08679 | 8 0.00338 7 0.01092 | 8 0.00338 7 0.01092 |
| 0.60 | 4 0.28963 3 0.50112 | 5 0.14837 4 0.28963 | 5 0.14837 4 0.28963 | 5 0.14837 4 0.28963 | 5 0.14837 4 0.28963 | 6 0.06873 5 0.14837 | 6 0.06873 5 0.14837 | 7 0.02924 6 0.06873 | 7 0.02924 6 0.06873 | 9 0.00429 8 0.01157 | 9 0.00429 8 0.01157 |
| 0.55 | 5 0.23239 4 0.36518 | 6 0.12944 5 0.23239 | 6 0.12944 5 0.23239 | 6 0.12944 5 0.23239 | 6 0.12944 5 0.23239 | 7 0.06731 6 0.12944 | 7 0.06731 6 0.12944 | 8 0.03297 7 0.06731 | 8 0.03297 7 0.06731 | 10 0.00680 9 0.01532 | 10 0.00680 9 0.01532 |
| 0.50 | 6 0.21808 5 0.33560 | 7 0.13432 6 0.21808 | 7 0.13432 6 0.21808 | 7 0.13432 6 0.21808 | 7 0.13432 6 0.21808 | 8 0.07890 7 0.13432 | 8 0.07890 7 0.13432 | 9 0.04444 8 0.07890 | 9 0.04444 8 0.07890 | 12 0.00642 11 0.01263 | 12 0.00642 11 0.01263 |
| 0.45 | 7 0.23467 6 0.33154 | 8 0.16025 7 0.23467 | 8 0.16025 7 0.23467 | 8 0.16025 7 0.23467 | 8 0.16025 7 0.23467 | 10 0.06800 9 0.10593 | 10 0.06800 9 0.10593 | 11 0.04249 10 0.06800 | 11 0.04249 10 0.06800 | 14 0.00901 13 0.01544 | 14 0.00901 13 0.01544 |
| 0.40 | 8 0.27976 7 0.36314 | 10 0.15499 9 0.21050 | 10 0.15499 9 0.21050 | 10 0.15499 9 0.21050 | 10 0.15499 9 0.21050 | 12 0.07922 11 0.11184 | 12 0.07922 11 0.11184 | 14 0.03778 13 0.05515 | 14 0.03778 13 0.05515 | 18 0.00723 17 0.01114 | 18 0.00723 17 0.01114 |
| 0.35 | 10 0.29069 9 0.35473 | 12 0.18736 11 0.23491 | 12 0.18736 11 0.23491 | 12 0.18736 11 0.23491 | 12 0.18736 11 0.23491 | 15 0.08851 14 0.11492 | 15 0.08851 14 0.11492 | 18 0.03807 17 0.05092 | 18 0.03807 17 0.05092 | 23 0.00786 22 0.01095 | 23 0.00786 22 0.01095 |
| 0.30 | 14 0.26114 13 0.30427 | 16 0.18824 15 0.22249 | 16 0.18824 15 0.22249 | 16 0.18824 15 0.22249 | 16 0.18824 15 0.22249 | 20 0.09048 19 0.10965 | 20 0.09048 19 0.10965 | 23 0.04919 22 0.06058 | 23 0.04919 22 0.06058 | 31 0.00787 30 0.01004 | 31 0.00787 30 0.01004 |
| 0.25 | 19 0.28426 18 0.31543 | 23 0.18104 22 0.20368 | 23 0.18104 22 0.20368 | 23 0.18104 22 0.20368 | 23 0.18104 22 0.20368 | 28 0.09593 27 0.10956 | 28 0.09593 27 0.10956 | 33 0.04745 32 0.05490 | 33 0.04745 32 0.05490 | 43 0.00977 42 0.01155 | 43 0.00977 42 0.01155 |
| 0.20 | 29 0.28854 28 0.30842 | 35 0.18767 34 0.20231 | 35 0.18767 34 0.20231 | 35 0.18767 34 0.20231 | 35 0.18767 34 0.20231 | 43 0.09831 42 0.10703 | 43 0.09831 42 0.10703 | 51 0.04789 50 0.05259 | 51 0.04789 50 0.05259 | 67 0.00949 66 0.01056 | 67 0.00949 66 0.01056 |
| 0.15 | 50 0.29868 49 0.31001 | 61 0.19239 60 0.20068 | 61 0.19239 60 0.20068 | 61 0.19239 60 0.20068 | 61 0.19239 60 0.20068 | 76 0.09740 75 0.10219 | 76 0.09740 75 0.10219 | 90 0.04757 89 0.05056 | 90 0.04757 89 0.05056 | 118 0.00976 117 0.01037 | 118 0.00976 117 0.01037 |
| 0.10 | 112 0.29610 111 0.30107 | 135 0.19689 134 0.20061 | 135 0.19689 134 0.20061 | 135 0.19689 134 0.20061 | 135 0.19689 134 0.20061 | 169 0.09947 168 0.10161 | 169 0.09947 168 0.10161 | 200 0.04967 199 0.05084 | 200 0.04967 199 0.05084 | 264 0.00989 263 0.01016 | 264 0.00989 263 0.01016 |
| 0.05 | 443 0.29928 442 0.30053 | 535 0.19927 534 0.20020 | 535 0.19927 534 0.20020 | 535 0.19927 534 0.20020 | 535 0.19927 534 0.20020 | 673 0.09977 672 0.10030 | 673 0.09977 672 0.10030 | 797 0.04983 796 0.05012 | 797 0.04983 796 0.05012 | 1053 0.00993 1052 0.01000 | 1053 0.00993 1052 0.01000 |
| 0.01 | 11041 0.29999 11040 0.30004 | 13336 0.19998 13335 0.20002 | 13336 0.19998 13335 0.20002 | 13336 0.19998 13335 0.20002 | 13336 0.19998 13335 0.20002 | 16795 0.09999 16794 0.10001 | 16795 0.09999 16794 0.10001 | 19892 0.04999 19891 0.05000 | 19892 0.04999 19891 0.05000 | 26285 0.00999 26284 0.01000 | 26285 0.00999 26284 0.01000 |

| K = 13 BETA = LAMBDA | ALPHA = 0.01 | | 0.20 | | 0.10 | | 0.05 | | 0.01 | |
|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|------|--|------|--|
| | | 0.30 | | | | | | | | |
| 1.00 | 3 0.17285 2 0.65368 | 3 0.17285 2 0.65368 | 4 0.02232 3 0.17285 | 4 0.02232 3 0.17285 | 5 0.00175 4 0.02232 | | | | | |
| 0.95 | 3 0.23326 2 0.70133 | 4 0.04169 3 0.23326 | 4 0.04169 3 0.23326 | 4 0.04169 3 0.23326 | 5 0.00477 4 0.04169 | | | | | |
| 0.90 | 4 0.07267 3 0.30344 | 4 0.07267 3 0.30344 | 4 0.07267 3 0.30344 | 5 0.01175 4 0.07267 | 6 0.00141 5 0.01175 | | | | | |
| 0.85 | 4 0.11850 3 0.38118 | 4 0.11850 3 0.38118 | 5 0.02617 4 0.11850 | 5 0.02617 4 0.11850 | 6 0.00444 5 0.02617 | | | | | |
| 0.80 | 4 0.18123 3 0.46337 | 4 0.18123 3 0.46337 | 5 0.05291 4 0.18123 | 6 0.01227 5 0.05291 | 7 0.00236 6 0.01227 | | | | | |
| 0.75 | 4 0.26076 3 0.54636 | 5 0.09741 4 0.26076 | 5 0.09741 4 0.26076 | 6 0.02985 5 0.09741 | 7 0.00778 6 0.02985 | | | | | |
| 0.70 | 5 0.16397 4 0.35425 | 5 0.16397 4 0.35425 | 6 0.06424 5 0.16397 | 7 0.02190 6 0.06424 | 8 0.00664 7 0.02190 | | | | | |
| 0.65 | 5 0.25361 4 0.45630 | 6 0.12294 5 0.25361 | 7 0.05304 6 0.12294 | 8 0.02071 7 0.05304 | 9 0.00742 8 0.02071 | | | | | |
| 0.60 | 6 0.21059 5 0.36251 | 7 0.11126 6 0.21059 | 8 0.05411 7 0.11126 | 9 0.02448 8 0.05411 | 11 0.00416 10 0.01039 | | | | | |
| 0.55 | 7 0.20380 6 0.32535 | 8 0.11947 7 0.20380 | 9 0.06600 8 0.11947 | 10 0.03459 9 0.06600 | 12 0.00827 11 0.01728 | | | | | |
| 0.50 | 8 0.22526 7 0.32932 | 9 0.14711 8 0.22526 | 10 0.09210 9 0.14711 | 12 0.03228 11 0.05549 | 14 0.00995 13 0.01818 | | | | | |
| 0.45 | 9 0.27483 8 0.36765 | 10 0.19899 9 0.27483 | 12 0.09569 11 0.13989 | 14 0.04157 13 0.06381 | 18 0.00609 17 0.01013 | | | | | |
| 0.40 | 11 0.28226 10 0.35537 | 13 0.16788 12 0.21574 | 15 0.09300 14 0.12600 | 17 0.04837 16 0.06757 | 22 0.00747 21 0.01112 | | | | | |
| 0.35 | 14 0.28472 13 0.34006 | 16 0.19278 15 0.23560 | 19 0.09922 18 0.12504 | 22 0.04694 21 0.06077 | 28 0.00850 27 0.01150 | | | | | |
| 0.30 | 19 0.27264 18 0.31164 | 22 0.17596 21 0.20483 | 26 0.09072 25 0.10791 | 30 0.04320 29 0.05237 | 38 0.00801 37 0.01002 | | | | | |
| 0.25 | 26 0.29681 25 0.32499 | 31 0.18030 30 0.20036 | 37 0.09059 36 0.10224 | 42 0.04777 41 0.05454 | 53 0.00976 52 0.01138 | | | | | |
| 0.20 | 40 0.29768 39 0.31557 | 47 0.19118 46 0.20439 | 56 0.09973 55 0.10766 | 65 0.04798 64 0.05224 | 82 0.00999 81 0.01103 | | | | | |
| 0.15 | 71 0.29102 70 0.30085 | 82 0.19678 81 0.20429 | 99 0.09872 98 0.10308 | 114 0.04977 113 0.05221 | 145 0.00999 144 0.01055 | | | | | |
| 0.10 | 157 0.29748 156 0.30189 | 183 0.19755 182 0.20087 | 221 0.09964 220 0.10158 | 256 0.04897 255 0.05002 | 325 0.00998 324 0.01023 | | | | | |
| 0.05 | 623 0.29964 622 0.30075 | 727 0.19918 726 0.20001 | 881 0.09963 880 0.10011 | 1018 0.04975 1017 0.05002 | 1297 0.00998 1296 0.01004 | | | | | |
| 0.01 | 15542 0.29999 15541 0.30003 | 18126 0.19997 18125 0.20000 | 21981 0.09999 21980 0.10001 | 25402 0.04999 25401 0.05000 | 32395 0.00999 32394 0.01000 | | | | | |