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Conversion Tables of Contact Angles to Surface Tensions

A. W. Neumann[ab]; D. R. Absolom[ab]; D. W. Francis[ab]; C. J. Oss Van[ab]
[a] Department of Mechanical Engineering, University of Toronto, Toronto, Ontario, Canada [b] Department of Microbiology, State University of New York at Buffalo, Buffalo, NY

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CONVERSION TABLES OF CONTACT ANGLES TO SURFACE TENSIONS

For Use in Determining the Contribution of the van der Waals Attraction or Repulsion to various Separation Processes

A.W. Neumann, D.R. Absolom, D.W. Francis and C.J. van Oss

Department of Mechanical Engineering, University of Toronto, Toronto, Ontario M5S 1A4, Canada,

and

Department of Microbiology, State University of New York at Buffalo, Buffalo, NY 14214.

INTRODUCTION

From the contact angle θ determined with one liquid (of known surface tension) only, it is possible to obtain the values of the surface tensions γ_{SV} and γ_{SL}, via the equation of state (1):

$$\gamma_{SL} = \frac{(\sqrt{\gamma_{SV}} - \sqrt{\gamma_{LV}})^2}{1 - 0.015\sqrt{\gamma_{SV}\gamma_{LV}}} \qquad [1]$$

where the subscripts S and L stand for the solid S and the liquid L, whilst the subscript V stands for vapor. In conjunction with Young's equation (2):

$$\gamma_{SV} - \gamma_{SL} = \gamma_{LV}\cos\theta \qquad [2]$$

relation [1] yields:

$$\cos\theta = \frac{(0.015\gamma_{SV} - 2.00)\sqrt{\gamma_{SV} + \gamma_{LV}} + \gamma_{LV}}{\gamma_{LV}(0.015\sqrt{\gamma_{SV}\gamma_{LV}} - 1)} \quad [3]$$

With the help of a computer program values for γ_{SV} (1) and for γ_{SL} (3) can be derived for different values of the contact angle θ obtained with a liquid of given γ_{LV}.

In these tables, values for γ_{SV} and γ_{SL} are given for the contact angles θ = 10° - 15° at 1° intervals, θ = 15° - 30° at 0.5° intervals and θ = 30° - 110° at 1° intervals, obtained with liquids with γ_{LV} values from 30 - 72 ergs/cm^2 at 1 erg/cm^2 intervals and 72 - 73 ergs/cm^2 with 0.5 erg/cm^2 interval.

SURFACE TENSIONS AND FREE ENERGIES OF ATTRACTION OR REPULSION

In an interaction between material S and material S' immersed in a liquid L, the total van der Waals free energy of interaction is described by (4-7):

$$\Delta F_{SLS'} = \gamma_{SS'} - \gamma_{SL} - \gamma_{S'L} \quad [4]$$

When $\Delta F_{SLS'}$ is negative, the net van der Waals interaction is attractive and when $\Delta F_{SLS'}$ has a positive value the interaction is repulsive.

The tables only give values for γ_{SV} and γ_{SL}, for different values of γ_{LV} of the liquids used for measuring the contact angles θ. For finding $\gamma_{SS'}$ once γ_{SV} and $\gamma_{S'V}$ are known, one should first consult the table for γ_{LV} = x (x being the value closest to γ_{SV}), and in that table find y (y being the value closest to $\gamma_{S'V}$) under the γ_{SV} column. The corresponding value under the γ_{SL} column then is the desired $\gamma_{SS'}$ because in this case one may equate:

$$\gamma_{SL} = \gamma_{SS'} \qquad [5]$$

Two examples follow. In the first example we want to find the free energy of adhesion between human immunoglobulin G (IgG), with $\theta = 23°$ (8) and Listeria monocytogenes ($\theta = 26.5°$) (8) in water ($\gamma_{LV} = 72.5$ ergs/cm^2). To that effect we look up γ_{SV} for $\theta = 23°$ at $\gamma_{LV} = 72.5$, yielding $\gamma_{SV} = 67.20$ ergs/cm^2. Similarly, the surface tension of Listeria $\gamma_{S'V} = 65.66$ ergs/cm^2, for $\theta = 26.5°$ at $\gamma_{LV} = 72.5$. To determine $\gamma_{SS'}$ we then go to the first $\gamma_{LV} = 67$ page and find the value for γ_{SL} closest to $\gamma_{S'V} = 65.66$. That corrseponds to $\gamma_{SL} = \gamma_{SS'} = 0.03$ ergs/cm^2. For $\gamma_{LV} = 72.5$, $\gamma_{SL} = 0.47$ for IgG and $\gamma_{S'L} = 0.78$ for Listeria. The free energy of interaction between IgG and Listeria in water then is (eq. [4]):

$$\Delta F_{SLS'} = \gamma_{SS'} - \gamma_{SL} - \gamma_{S'L}$$
$$= 0.03 - 0.47 - 0.78 = -1.22 \text{ ergs/cm}^2,$$

indicating a sizeable energy of attraction.

In the second example we wish to find the free energy (of repulsion) between human IgG ($\gamma_{SV} = 67.2$ ergs/cm^2) and the chromatographic hydrophobic carrier phenyl sepharose ($\gamma_{S'V} = 40.9$ ergs/cm^2) (6,9), in a liquid that elutes the IgG completely from the carrier, i.e. 45 % (v/v) ethylene glycol in water ($\gamma_{LV} = 52$ ergs/cm^2). In order to find $\gamma_{SS'}$ we go to the second $\gamma_{LV} = 67$ page and find the value closest to $\gamma_{SV} = 40.9$ (i.e. 40.78), corresponding to $\gamma_{SS'} = 10.36$ ergs/cm^2. To determine γ_{SL} we go to the first $\gamma_{LV} = 67$ page and find the value closest to $\gamma_{SV} = 52$ (i.e. between 52.27 and 51.72), corresponding to γ_{SL} between 3.27 and 3.52, ≈ 3.40 ergs/cm^2. For $\gamma_{LV} = 52$ ergs/cm^2 and $\gamma_{S'V} = 40.9$ ergs/cm^2 the corresponding value of $\gamma_{S'L}$, from the first $\gamma_{LV} = 52$ page, is $\gamma_{S'L} = 1.63$ ergs/cm^2. The free energy of interaction between IgG and phenyl sepharose, in 45 % ethylene glycol then is:

$$\Delta F_{SLS'} = \gamma_{SS'} - \gamma_{SL} - \gamma_{S'L}$$
$$= 10.36 - 3.40 - 1.63 = +5.33 \text{ ergs/cm}^2,$$

indicating a strong repulsion, which is logical, as IgG is completely eluted from phenyl sepharose at γ_{LV} = 52 ergs/cm^2 (6,9).

When the surface tensions of all components in a system (γ_{LV} as well as γ_{SV} and $\gamma_{S'V}$) are < 50 ergs/cm^2, these tables provide quantitatively reliable data, as is also the case when all components have surface tensions > 50 ergs/cm^2. But for values of γ_{SV} (or $\gamma_{S'V}$) between 15 and 40 ergs/cm^2, and for values of γ_{LV} > 50 ergs/cm^2 there exists a possibility of a slight (< 10 %) deviation in the values found for $\Delta F_{SLS'}$. Similar restrictions apply when γ_{LV} < 50 ergs/cm^2 and both γ_{SV} and $\gamma_{S'V}$ > 50 ergs/cm^2 (10). However, the sign for the value of $\Delta F_{SLS'}$ in no case is compromised by that small deviation.

It should be noted that 1 erg/cm^2 = 1 milli Joule/m^2.

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TABLES OF THE SURFACE TENSIONS γ_{SV} AND γ_{SL} IN ERGS/CM^2, FOR CONTACT ANGLE VALUES θ FROM 10° TO 110°, FOR SURFACE TENSIONS γ_{LV} OF THE LIQUIDS USED, FROM 30 TO 73 ERGS/CM^2.

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	30.00	29.55	0.00
11.00	30.00	29.45	0.00
12.00	30.00	29.35	0.01
13.00	30.00	29.24	0.01
14.00	30.00	29.12	0.01
15.00	30.00	28.99	0.01
15.50	30.00	28.93	0.02
16.00	30.00	28.86	0.02
16.50	30.00	28.79	0.02
17.00	30.00	28.71	0.02
17.50	30.00	28.64	0.03
18.00	30.00	28.56	0.03
18.50	30.00	28.48	0.03
19.00	30.00	28.40	0.04
19.50	30.00	28.32	0.04
20.00	30.00	28.23	0.04
20.50	30.00	28.15	0.05
21.00	30.00	28.06	0.05
21.50	30.00	27.97	0.06
22.00	30.00	27.88	0.06
22.50	30.00	27.79	0.07
23.00	30.00	27.69	0.08
23.50	30.00	27.59	0.08
24.00	30.00	27.50	0.09
24.50	30.00	27.40	0.10
25.00	30.00	27.29	0.10
25.50	30.00	27.19	0.11
26.00	30.00	27.08	0.12
26.50	30.00	26.98	0.13
27.00	30.00	26.87	0.14
27.50	30.00	26.76	0.15
28.00	30.00	26.65	0.16
28.50	30.00	26.54	0.17
29.00	30.00	26.42	0.18
29.50	30.00	26.31	0.20
30.00	30.00	26.19	0.21
31.00	30.00	25.95	0.24
32.00	30.00	25.71	0.27
33.00	30.00	25.46	0.30
34.00	30.00	25.20	0.33
35.00	30.00	24.95	0.37
36.00	30.00	24.68	0.41
37.00	30.00	24.41	0.46
38.00	30.00	24.14	0.50
39.00	30.00	23.87	0.55
40.00	30.00	23.59	0.61
41.00	30.00	23.30	0.66
42.00	30.00	23.02	0.72
43.00	30.00	22.73	0.79
44.00	30.00	22.43	0.85
45.00	30.00	22.14	0.93
46.00	30.00	21.84	1.00
47.00	30.00	21.54	1.08
48.00	30.00	21.24	1.16
49.00	30.00	20.93	1.25
50.00	30.00	20.62	1.34
51.00	30.00	20.31	1.43
52.00	30.00	20.00	1.53

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	30.00	19.69	1.64
54.00	30.00	19.38	1.74
55.00	30.00	19.06	1.86
56.00	30.00	18.75	1.97
57.00	30.00	18.43	2.09
58.00	30.00	18.12	2.22
59.00	30.00	17.80	2.35
60.00	30.00	17.48	2.48
61.00	30.00	17.17	2.62
62.00	30.00	16.85	2.77
63.00	30.00	16.53	2.91
64.00	30.00	16.22	3.07
65.00	30.00	15.90	3.22
66.00	30.00	15.59	3.38
67.00	30.00	15.27	3.55
68.00	30.00	14.96	3.72
69.00	30.00	14.65	3.90
70.00	30.00	14.34	4.08
71.00	30.00	14.03	4.26
72.00	30.00	13.72	4.45
73.00	30.00	13.41	4.64
74.00	30.00	13.11	4.84
75.00	30.00	12.81	5.04
76.00	30.00	12.51	5.25
77.00	30.00	12.21	5.46
78.00	30.00	11.91	5.67
79.00	30.00	11.62	5.89
80.00	30.00	11.33	6.12
81.00	30.00	11.04	6.34
82.00	30.00	10.75	6.58
83.00	30.00	10.47	6.81
84.00	30.00	10.19	7.05
85.00	30.00	9.91	7.29
86.00	30.00	9.63	7.54
87.00	30.00	9.36	7.79
88.00	30.00	9.09	8.05
89.00	30.00	8.83	8.30
90.00	30.00	8.57	8.57
91.00	30.00	8.30	8.83
92.00	30.00	8.05	9.09
93.00	30.00	7.79	9.36
94.00	30.00	7.54	9.63
95.00	30.00	7.29	9.91
96.00	30.00	7.05	10.19
97.00	30.00	6.81	10.47
98.00	30.00	6.58	10.75
99.00	30.00	6.34	11.04
100.00	30.00	6.12	11.33
101.00	30.00	5.89	11.62
102.00	30.00	5.67	11.91
103.00	30.00	5.46	12.21
104.00	30.00	5.25	12.51
105.00	30.00	5.04	12.81
106.00	30.00	4.84	13.11
107.00	30.00	4.64	13.41
108.00	30.00	4.45	13.72
109.00	30.00	4.26	14.03
110.00	30.00	4.08	14.34

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	31.00	30.53	0.00
11.00	31.00	30.43	0.00
12.00	31.00	30.33	0.01
13.00	31.00	30.21	0.01
14.00	31.00	30.09	0.01
15.00	31.00	29.96	0.01
15.50	31.00	29.89	0.02
16.00	31.00	29.82	0.02
16.50	31.00	29.75	0.02
17.00	31.00	29.67	0.02
17.50	31.00	29.59	0.03
18.00	31.00	29.51	0.03
18.50	31.00	29.43	0.03
19.00	31.00	29.35	0.04
19.50	31.00	29.26	0.04
20.00	31.00	29.18	0.05
20.50	31.00	29.09	0.05
21.00	31.00	29.00	0.06
21.50	31.00	28.90	0.06
22.00	31.00	28.81	0.07
22.50	31.00	28.71	0.07
23.00	31.00	28.62	0.08
23.50	31.00	28.52	0.09
24.00	31.00	28.41	0.09
24.50	31.00	28.31	0.10
25.00	31.00	28.20	0.11
25.50	31.00	28.10	0.12
26.00	31.00	27.99	0.13
26.50	31.00	27.88	0.14
27.00	31.00	27.77	0.15
27.50	31.00	27.65	0.16
28.00	31.00	27.54	0.17
28.50	31.00	27.42	0.18
29.00	31.00	27.31	0.19
29.50	31.00	27.19	0.21
30.00	31.00	27.07	0.22
31.00	31.00	26.82	0.25
32.00	31.00	26.57	0.28
33.00	31.00	26.31	0.31
34.00	31.00	26.05	0.35
35.00	31.00	25.78	0.39
36.00	31.00	25.51	0.43
37.00	31.00	25.24	0.48
38.00	31.00	24.96	0.53
39.00	31.00	24.67	0.58
40.00	31.00	24.38	0.64
41.00	31.00	24.09	0.69
42.00	31.00	23.80	0.76
43.00	31.00	23.50	0.82
44.00	31.00	23.19	0.89
45.00	31.00	22.89	0.97
46.00	31.00	22.58	1.05
47.00	31.00	22.27	1.13
48.00	31.00	21.96	1.22
49.00	31.00	21.64	1.31
50.00	31.00	21.33	1.40
51.00	31.00	21.01	1.50
52.00	31.00	20.69	1.60

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	31.00	20.37	1.71
54.00	31.00	20.05	1.82
55.00	31.00	19.72	1.94
56.00	31.00	19.40	2.06
57.00	31.00	19.07	2.19
58.00	31.00	18.75	2.32
59.00	31.00	18.42	2.45
60.00	31.00	18.09	2.59
61.00	31.00	17.77	2.74
62.00	31.00	17.44	2.89
63.00	31.00	17.11	3.04
64.00	31.00	16.79	3.20
65.00	31.00	16.46	3.36
66.00	31.00	16.14	3.53
67.00	31.00	15.82	3.70
68.00	31.00	15.49	3.88
69.00	31.00	15.17	4.06
70.00	31.00	14.85	4.25
71.00	31.00	14.53	4.44
72.00	31.00	14.22	4.64
73.00	31.00	13.90	4.84
74.00	31.00	13.59	5.04
75.00	31.00	13.27	5.25
76.00	31.00	12.96	5.46
77.00	31.00	12.66	5.68
78.00	31.00	12.35	5.91
79.00	31.00	12.05	6.13
80.00	31.00	11.75	6.36
81.00	31.00	11.45	6.60
82.00	31.00	11.15	6.84
83.00	31.00	10.86	7.08
84.00	31.00	10.57	7.33
85.00	31.00	10.28	7.58
86.00	31.00	10.00	7.84
87.00	31.00	9.72	8.10
88.00	31.00	9.44	8.36
89.00	31.00	9.17	8.63
90.00	31.00	8.90	8.90
91.00	31.00	8.63	9.17
92.00	31.00	8.36	9.44
93.00	31.00	8.10	9.72
94.00	31.00	7.84	10.00
95.00	31.00	7.58	10.28
96.00	31.00	7.33	10.57
97.00	31.00	7.08	10.86
98.00	31.00	6.84	11.15
99.00	31.00	6.60	11.45
100.00	31.00	6.36	11.75
101.00	31.00	6.13	12.05
102.00	31.00	5.91	12.35
103.00	31.00	5.68	12.66
104.00	31.00	5.46	12.96
105.00	31.00	5.25	13.27
106.00	31.00	5.04	13.59
107.00	31.00	4.84	13.90
108.00	31.00	4.64	14.22
109.00	31.00	4.44	14.53
110.00	31.00	4.25	14.85

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	32.00	31.52	0.00
11.00	32.00	31.42	0.00
12.00	32.00	31.31	0.01
13.00	32.00	31.19	0.01
14.00	32.00	31.06	0.01
15.00	32.00	30.93	0.02
15.50	32.00	30.85	0.02
16.00	32.00	30.78	0.02
16.50	32.00	30.71	0.02
17.00	32.00	30.63	0.03
17.50	32.00	30.55	0.03
18.00	32.00	30.47	0.03
18.50	32.00	30.38	0.04
19.00	32.00	30.30	0.04
19.50	32.00	30.21	0.04
20.00	32.00	30.12	0.05
20.50	32.00	30.03	0.05
21.00	32.00	29.93	0.06
21.50	32.00	29.84	0.06
22.00	32.00	29.74	0.07
22.50	32.00	29.64	0.08
23.00	32.00	29.54	0.08
23.50	32.00	29.44	0.09
24.00	32.00	29.33	0.10
24.50	32.00	29.23	0.11
25.00	32.00	29.12	0.11
25.50	32.00	29.01	0.12
26.00	32.00	28.89	0.13
26.50	32.00	28.78	0.14
27.00	32.00	28.67	0.15
27.50	32.00	28.55	0.17
28.00	32.00	28.43	0.18
28.50	32.00	28.31	0.19
29.00	32.00	28.19	0.20
29.50	32.00	28.07	0.22
30.00	32.00	27.94	0.23
31.00	32.00	27.69	0.26
32.00	32.00	27.43	0.29
33.00	32.00	27.17	0.33
34.00	32.00	26.90	0.37
35.00	32.00	26.62	0.41
36.00	32.00	26.34	0.45
37.00	32.00	26.06	0.50
38.00	32.00	25.77	0.55
39.00	32.00	25.48	0.61
40.00	32.00	25.18	0.67
41.00	32.00	24.88	0.73
42.00	32.00	24.57	0.79
43.00	32.00	24.27	0.86
44.00	32.00	23.96	0.94
45.00	32.00	23.64	1.01
46.00	32.00	23.32	1.10
47.00	32.00	23.01	1.18
48.00	32.00	22.68	1.27
49.00	32.00	22.36	1.37
50.00	32.00	22.03	1.47
51.00	32.00	21.71	1.57
52.00	32.00	21.38	1.68

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	32.00	21.05	1.79
54.00	32.00	20.71	1.91
55.00	32.00	20.38	2.03
56.00	32.00	20.05	2.15
57.00	32.00	19.71	2.28
58.00	32.00	19.38	2.42
59.00	32.00	19.04	2.56
60.00	32.00	18.71	2.71
61.00	32.00	18.37	2.86
62.00	32.00	18.03	3.01
63.00	32.00	17.70	3.17
64.00	32.00	17.36	3.34
65.00	32.00	17.03	3.51
66.00	32.00	16.70	3.68
67.00	32.00	16.36	3.86
68.00	32.00	16.03	4.04
69.00	32.00	15.70	4.23
70.00	32.00	15.37	4.42
71.00	32.00	15.04	4.62
72.00	32.00	14.71	4.83
73.00	32.00	14.39	5.03
74.00	32.00	14.07	5.25
75.00	32.00	13.75	5.46
76.00	32.00	13.43	5.68
77.00	32.00	13.11	5.91
78.00	32.00	12.79	6.14
79.00	32.00	12.48	6.38
80.00	32.00	12.17	6.62
81.00	32.00	11.87	6.86
82.00	32.00	11.56	7.11
83.00	32.00	11.26	7.36
84.00	32.00	10.96	7.62
85.00	32.00	10.66	7.88
86.00	32.00	10.37	8.14
87.00	32.00	10.08	8.41
88.00	32.00	9.80	8.68
89.00	32.00	9.51	8.96
90.00	32.00	9.24	9.24
91.00	32.00	8.96	9.51
92.00	32.00	8.68	9.80
93.00	32.00	8.41	10.08
94.00	32.00	8.14	10.37
95.00	32.00	7.88	10.66
96.00	32.00	7.62	10.96
97.00	32.00	7.36	11.26
98.00	32.00	7.11	11.56
99.00	32.00	6.86	11.87
100.00	32.00	6.62	12.17
101.00	32.00	6.38	12.48
102.00	32.00	6.14	12.79
103.00	32.00	5.91	13.11
104.00	32.00	5.68	13.43
105.00	32.00	5.46	13.75
106.00	32.00	5.25	14.07
107.00	32.00	5.03	14.39
108.00	32.00	4.83	14.71
109.00	32.00	4.62	15.04
110.00	32.00	4.42	15.37

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	33.00	32.50	0.00
11.00	33.00	32.40	0.00
12.00	33.00	32.29	0.01
13.00	33.00	32.16	0.01
14.00	33.00	32.03	0.01
15.00	33.00	31.89	0.02
15.50	33.00	31.82	0.02
16.00	33.00	31.74	0.02
16.50	33.00	31.67	0.02
17.00	33.00	31.59	0.03
17.50	33.00	31.50	0.03
18.00	33.00	31.42	0.03
18.50	33.00	31.33	0.04
19.00	33.00	31.24	0.04
19.50	33.00	31.15	0.05
20.00	33.00	31.06	0.05
20.50	33.00	30.97	0.06
21.00	33.00	30.87	0.06
21.50	33.00	30.77	0.07
22.00	33.00	30.67	0.07
22.50	33.00	30.57	0.08
23.00	33.00	30.46	0.09
23.50	33.00	30.36	0.10
24.00	33.00	30.25	0.10
24.50	33.00	30.14	0.11
25.00	33.00	30.03	0.12
25.50	33.00	29.92	0.13
26.00	33.00	29.80	0.14
26.50	33.00	29.68	0.15
27.00	33.00	29.57	0.16
27.50	33.00	29.44	0.17
28.00	33.00	29.32	0.19
28.50	33.00	29.20	0.20
29.00	33.00	29.07	0.21
29.50	33.00	28.95	0.23
30.00	33.00	28.82	0.24
31.00	33.00	28.56	0.27
32.00	33.00	28.29	0.31
33.00	33.00	28.02	0.34
34.00	33.00	27.74	0.38
35.00	33.00	27.46	0.43
36.00	33.00	27.17	0.47
37.00	33.00	26.88	0.52
38.00	33.00	26.58	0.58
39.00	33.00	26.28	0.64
40.00	33.00	25.98	0.70
41.00	33.00	25.67	0.76
42.00	33.00	25.35	0.83
43.00	33.00	25.04	0.90
44.00	33.00	24.72	0.98
45.00	33.00	24.39	1.06
46.00	33.00	24.07	1.15
47.00	33.00	23.74	1.23
48.00	33.00	23.41	1.33
49.00	33.00	23.08	1.43
50.00	33.00	22.74	1.53
51.00	33.00	22.41	1.64
52.00	33.00	22.07	1.75

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	33.00	21.73	1.87
54.00	33.00	21.39	1.99
55.00	33.00	21.04	2.12
56.00	33.00	20.70	2.25
57.00	33.00	20.36	2.38
58.00	33.00	20.01	2.52
59.00	33.00	19.67	2.67
60.00	33.00	19.32	2.82
61.00	33.00	18.98	2.98
62.00	33.00	18.63	3.14
63.00	33.00	18.29	3.30
64.00	33.00	17.94	3.47
65.00	33.00	17.60	3.65
66.00	33.00	17.25	3.83
67.00	33.00	16.91	4.02
68.00	33.00	16.57	4.21
69.00	33.00	16.23	4.40
70.00	33.00	15.89	4.60
71.00	33.00	15.55	4.81
72.00	33.00	15.22	5.02
73.00	33.00	14.88	5.23
74.00	33.00	14.55	5.45
75.00	33.00	14.22	5.68
76.00	33.00	13.89	5.91
77.00	33.00	13.57	6.14
78.00	33.00	13.24	6.38
79.00	33.00	12.92	6.62
80.00	33.00	12.60	6.87
81.00	33.00	12.29	7.12
82.00	33.00	11.97	7.38
83.00	33.00	11.66	7.64
84.00	33.00	11.35	7.90
85.00	33.00	11.05	8.17
86.00	33.00	10.75	8.45
87.00	33.00	10.45	8.72
88.00	33.00	10.16	9.00
89.00	33.00	9.86	9.29
90.00	33.00	9.58	9.58
91.00	33.00	9.29	9.86
92.00	33.00	9.00	10.16
93.00	33.00	8.72	10.45
94.00	33.00	8.45	10.75
95.00	33.00	8.17	11.05
96.00	33.00	7.90	11.35
97.00	33.00	7.64	11.66
98.00	33.00	7.38	11.97
99.00	33.00	7.12	12.29
100.00	33.00	6.87	12.60
101.00	33.00	6.62	12.92
102.00	33.00	6.38	13.24
103.00	33.00	6.14	13.57
104.00	33.00	5.91	13.89
105.00	33.00	5.68	14.22
106.00	33.00	5.45	14.55
107.00	33.00	5.23	14.88
108.00	33.00	5.02	15.22
109.00	33.00	4.81	15.55
110.00	33.00	4.60	15.89

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	34.00	33.49	0.00
11.00	34.00	33.38	0.01
12.00	34.00	33.26	0.01
13.00	34.00	33.14	0.01
14.00	34.00	33.00	0.01
15.00	34.00	32.86	0.02
15.50	34.00	32.78	0.02
16.00	34.00	32.71	0.02
16.50	34.00	32.63	0.03
17.00	34.00	32.54	0.03
17.50	34.00	32.46	0.03
18.00	34.00	32.37	0.04
18.50	34.00	32.28	0.04
19.00	34.00	32.19	0.04
19.50	34.00	32.10	0.05
20.00	34.00	32.00	0.05
20.50	34.00	31.91	0.06
21.00	34.00	31.81	0.06
21.50	34.00	31.71	0.07
22.00	34.00	31.60	0.08
22.50	34.00	31.50	0.08
23.00	34.00	31.39	0.09
23.50	34.00	31.28	0.10
24.00	34.00	31.17	0.11
24.50	34.00	31.06	0.12
25.00	34.00	30.94	0.13
25.50	34.00	30.82	0.14
26.00	34.00	30.71	0.15
26.50	34.00	30.59	0.16
27.00	34.00	30.46	0.17
27.50	34.00	30.34	0.18
28.00	34.00	30.21	0.19
28.50	34.00	30.09	0.21
29.00	34.00	29.96	0.22
29.50	34.00	29.83	0.24
30.00	34.00	29.70	0.25
31.00	34.00	29.43	0.29
32.00	34.00	29.16	0.32
33.00	34.00	28.88	0.36
34.00	34.00	28.59	0.40
35.00	34.00	28.30	0.45
36.00	34.00	28.00	0.50
37.00	34.00	27.70	0.55
38.00	34.00	27.40	0.61
39.00	34.00	27.09	0.66
40.00	34.00	26.77	0.73
41.00	34.00	26.46	0.80
42.00	34.00	26.13	0.87
43.00	34.00	25.81	0.94
44.00	34.00	25.48	1.02
45.00	34.00	25.15	1.11
46.00	34.00	24.81	1.20
47.00	34.00	24.48	1.29
48.00	34.00	24.14	1.39
49.00	34.00	23.80	1.49
50.00	34.00	23.45	1.60
51.00	34.00	23.11	1.71
52.00	34.00	22.76	1.83

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	34.00	22.41	1.95
54.00	34.00	22.06	2.07
55.00	34.00	21.71	2.21
56.00	34.00	21.35	2.34
57.00	34.00	21.00	2.48
58.00	34.00	20.65	2.63
59.00	34.00	20.29	2.78
60.00	34.00	19.94	2.94
61.00	34.00	19.58	3.10
62.00	34.00	19.23	3.27
63.00	34.00	18.87	3.44
64.00	34.00	18.52	3.62
65.00	34.00	18.17	3.80
66.00	34.00	17.81	3.99
67.00	34.00	17.46	4.18
68.00	34.00	17.11	4.38
69.00	34.00	16.76	4.58
70.00	34.00	16.41	4.79
71.00	34.00	16.07	5.00
72.00	34.00	15.72	5.22
73.00	34.00	15.38	5.44
74.00	34.00	15.04	5.67
75.00	34.00	14.70	5.90
76.00	34.00	14.36	6.14
77.00	34.00	14.03	6.38
78.00	34.00	13.69	6.62
79.00	34.00	13.36	6.87
80.00	34.00	13.03	7.13
81.00	34.00	12.71	7.39
82.00	34.00	12.39	7.65
83.00	34.00	12.07	7.92
84.00	34.00	11.75	8.20
85.00	34.00	11.44	8.47
86.00	34.00	11.13	8.76
87.00	34.00	10.82	9.04
88.00	34.00	10.52	9.33
89.00	34.00	10.22	9.62
90.00	34.00	9.92	9.92
91.00	34.00	9.62	10.22
92.00	34.00	9.33	10.52
93.00	34.00	9.04	10.82
94.00	34.00	8.76	11.13
95.00	34.00	8.47	11.44
96.00	34.00	8.20	11.75
97.00	34.00	7.92	12.07
98.00	34.00	7.65	12.39
99.00	34.00	7.39	12.71
100.00	34.00	7.13	13.03
101.00	34.00	6.87	13.36
102.00	34.00	6.62	13.69
103.00	34.00	6.38	14.03
104.00	34.00	6.14	14.36
105.00	34.00	5.90	14.70
106.00	34.00	5.67	15.04
107.00	34.00	5.44	15.38
108.00	34.00	5.22	15.72
109.00	34.00	5.00	16.07
110.00	34.00	4.79	16.41

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	35.00	34.47	0.00
11.00	35.00	34.36	0.01
12.00	35.00	34.24	0.01
13.00	35.00	34.11	0.01
14.00	35.00	33.97	0.01
15.00	35.00	33.83	0.02
15.50	35.00	33.75	0.02
16.00	35.00	33.67	0.02
16.50	35.00	33.59	0.03
17.00	35.00	33.50	0.03
17.50	35.00	33.41	0.03
18.00	35.00	33.32	0.04
18.50	35.00	33.23	0.04
19.00	35.00	33.14	0.05
19.50	35.00	33.04	0.05
20.00	35.00	32.95	0.06
20.50	35.00	32.85	0.06
21.00	35.00	32.74	0.07
21.50	35.00	32.64	0.07
22.00	35.00	32.53	0.08
22.50	35.00	32.42	0.09
23.00	35.00	32.31	0.10
23.50	35.00	32.20	0.10
24.00	35.00	32.09	0.11
24.50	35.00	31.97	0.12
25.00	35.00	31.85	0.13
25.50	35.00	31.73	0.14
26.00	35.00	31.61	0.15
26.50	35.00	31.49	0.17
27.00	35.00	31.36	0.18
27.50	35.00	31.24	0.19
28.00	35.00	31.11	0.20
28.50	35.00	30.98	0.22
29.00	35.00	30.84	0.23
29.50	35.00	30.71	0.25
30.00	35.00	30.58	0.26
31.00	35.00	30.30	0.30
32.00	35.00	30.02	0.34
33.00	35.00	29.73	0.38
34.00	35.00	29.44	0.42
35.00	35.00	29.14	0.47
36.00	35.00	28.84	0.52
37.00	35.00	28.53	0.57
38.00	35.00	28.21	0.63
39.00	35.00	27.90	0.69
40.00	35.00	27.57	0.76
41.00	35.00	27.25	0.83
42.00	35.00	26.92	0.91
43.00	35.00	26.58	0.99
44.00	35.00	26.25	1.07
45.00	35.00	25.91	1.16
46.00	35.00	25.56	1.25
47.00	35.00	25.22	1.35
48.00	35.00	24.87	1.45
49.00	35.00	24.52	1.55
50.00	35.00	24.16	1.67
51.00	35.00	23.81	1.78
52.00	35.00	23.45	1.90

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	35.00	23.09	2.03
54.00	35.00	22.73	2.16
55.00	35.00	22.37	2.30
56.00	35.00	22.01	2.44
57.00	35.00	21.65	2.59
58.00	35.00	21.29	2.74
59.00	35.00	20.92	2.90
60.00	35.00	20.56	3.06
61.00	35.00	20.19	3.23
62.00	35.00	19.83	3.40
63.00	35.00	19.47	3.58
64.00	35.00	19.10	3.76
65.00	35.00	18.74	3.95
66.00	35.00	18.38	4.14
67.00	35.00	18.02	4.34
68.00	35.00	17.66	4.55
69.00	35.00	17.30	4.76
70.00	35.00	16.94	4.97
71.00	35.00	16.59	5.19
72.00	35.00	16.23	5.42
73.00	35.00	15.88	5.65
74.00	35.00	15.53	5.88
75.00	35.00	15.18	6.12
76.00	35.00	14.83	6.37
77.00	35.00	14.49	6.62
78.00	35.00	14.15	6.87
79.00	35.00	13.81	7.13
80.00	35.00	13.47	7.39
81.00	35.00	13.14	7.66
82.00	35.00	12.81	7.94
83.00	35.00	12.48	8.21
84.00	35.00	12.15	8.49
85.00	35.00	11.83	8.78
86.00	35.00	11.51	9.07
87.00	35.00	11.20	9.36
88.00	35.00	10.88	9.66
89.00	35.00	10.58	9.97
90.00	35.00	10.27	10.27
91.00	35.00	9.97	10.58
92.00	35.00	9.66	10.88
93.00	35.00	9.36	11.20
94.00	35.00	9.07	11.51
95.00	35.00	8.78	11.83
96.00	35.00	8.49	12.15
97.00	35.00	8.21	12.48
98.00	35.00	7.94	12.81
99.00	35.00	7.66	13.14
100.00	35.00	7.39	13.47
101.00	35.00	7.13	13.81
102.00	35.00	6.87	14.15
103.00	35.00	6.62	14.49
104.00	35.00	6.37	14.83
105.00	35.00	6.12	15.18
106.00	35.00	5.88	15.53
107.00	35.00	5.65	15.88
108.00	35.00	5.42	16.23
109.00	35.00	5.19	16.59
110.00	35.00	4.97	16.94

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	36.00	35.46	0.00
11.00	36.00	35.34	0.01
12.00	36.00	35.22	0.01
13.00	36.00	35.09	0.01
14.00	36.00	34.95	0.01
15.00	36.00	34.79	0.02
15.50	36.00	34.71	0.02
16.00	36.00	34.63	0.02
16.50	36.00	34.55	0.03
17.00	36.00	34.46	0.03
17.50	36.00	34.37	0.03
18.00	36.00	34.28	0.04
18.50	36.00	34.18	0.04
19.00	36.00	34.09	0.05
19.50	36.00	33.99	0.05
20.00	36.00	33.89	0.06
20.50	36.00	33.78	0.06
21.00	36.00	33.68	0.07
21.50	36.00	33.57	0.08
22.00	36.00	33.46	0.09
22.50	36.00	33.35	0.09
23.00	36.00	33.24	0.10
23.50	36.00	33.12	0.11
24.00	36.00	33.01	0.12
24.50	36.00	32.89	0.13
25.00	36.00	32.77	0.14
25.50	36.00	32.64	0.15
26.00	36.00	32.52	0.16
26.50	36.00	32.39	0.17
27.00	36.00	32.26	0.19
27.50	36.00	32.13	0.20
28.00	36.00	32.00	0.21
28.50	36.00	31.87	0.23
29.00	36.00	31.73	0.24
29.50	36.00	31.59	0.26
30.00	36.00	31.45	0.28
31.00	36.00	31.17	0.31
32.00	36.00	30.88	0.35
33.00	36.00	30.59	0.39
34.00	36.00	30.29	0.44
35.00	36.00	29.98	0.49
36.00	36.00	29.67	0.54
37.00	36.00	29.35	0.60
38.00	36.00	29.03	0.66
39.00	36.00	28.70	0.73
40.00	36.00	28.37	0.79
41.00	36.00	28.04	0.87
42.00	36.00	27.70	0.95
43.00	36.00	27.36	1.03
44.00	36.00	27.01	1.11
45.00	36.00	26.66	1.21
46.00	36.00	26.31	1.30
47.00	36.00	25.96	1.40
48.00	36.00	25.60	1.51
49.00	36.00	25.24	1.62
50.00	36.00	24.88	1.74
51.00	36.00	24.51	1.86
52.00	36.00	24.15	1.98

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	36.00	23.78	2.11
54.00	36.00	23.41	2.25
55.00	36.00	23.04	2.39
56.00	36.00	22.67	2.54
57.00	36.00	22.30	2.69
58.00	36.00	21.93	2.85
59.00	36.00	21.55	3.01
60.00	36.00	21.18	3.18
61.00	36.00	20.81	3.35
62.00	36.00	20.43	3.53
63.00	36.00	20.06	3.72
64.00	36.00	19.69	3.91
65.00	36.00	19.32	4.10
66.00	36.00	18.95	4.30
67.00	36.00	18.58	4.51
68.00	36.00	18.21	4.72
69.00	36.00	17.84	4.94
70.00	36.00	17.47	5.16
71.00	36.00	17.11	5.39
72.00	36.00	16.74	5.62
73.00	36.00	16.38	5.86
74.00	36.00	16.02	6.10
75.00	36.00	15.67	6.35
76.00	36.00	15.31	6.60
77.00	36.00	14.96	6.86
78.00	36.00	14.61	7.12
79.00	36.00	14.26	7.39
80.00	36.00	13.91	7.66
81.00	36.00	13.57	7.94
82.00	36.00	13.23	8.22
83.00	36.00	12.89	8.51
84.00	36.00	12.56	8.80
85.00	36.00	12.23	9.09
86.00	36.00	11.90	9.39
87.00	36.00	11.58	9.69
88.00	36.00	11.26	10.00
89.00	36.00	10.94	10.31
90.00	36.00	10.63	10.63
91.00	36.00	10.31	10.94
92.00	36.00	10.00	11.26
93.00	36.00	9.69	11.58
94.00	36.00	9.39	11.90
95.00	36.00	9.09	12.23
96.00	36.00	8.80	12.56
97.00	36.00	8.51	12.89
98.00	36.00	8.22	13.23
99.00	36.00	7.94	13.57
100.00	36.00	7.66	13.91
101.00	36.00	7.39	14.26
102.00	36.00	7.12	14.61
103.00	36.00	6.86	14.96
104.00	36.00	6.60	15.31
105.00	36.00	6.35	15.67
106.00	36.00	6.10	16.02
107.00	36.00	5.86	16.38
108.00	36.00	5.62	16.74
109.00	36.00	5.39	17.11
110.00	36.00	5.16	17.47

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	37.00	36.44	0.00
11.00	37.00	36.33	0.01
12.00	37.00	36.20	0.01
13.00	37.00	36.06	0.01
14.00	37.00	35.92	0.02
15.00	37.00	35.76	0.02
15.50	37.00	35.68	0.02
16.00	37.00	35.59	0.03
16.50	37.00	35.51	0.03
17.00	37.00	35.42	0.03
17.50	37.00	35.32	0.04
18.00	37.00	35.23	0.04
18.50	37.00	35.13	0.05
19.00	37.00	35.03	0.05
19.50	37.00	34.93	0.06
20.00	37.00	34.83	0.06
20.50	37.00	34.72	0.07
21.00	37.00	34.62	0.07
21.50	37.00	34.51	0.08
22.00	37.00	34.39	0.09
22.50	37.00	34.26	0.10
23.00	37.00	34.16	0.11
23.50	37.00	34.05	0.11
24.00	37.00	33.93	0.12
24.50	37.00	33.80	0.13
25.00	37.00	33.68	0.15
25.50	37.00	33.55	0.16
26.00	37.00	33.42	0.17
26.50	37.00	33.29	0.18
27.00	37.00	33.16	0.19
27.50	37.00	33.03	0.21
28.00	37.00	32.89	0.22
28.50	37.00	32.75	0.24
29.00	37.00	32.62	0.25
29.50	37.00	32.47	0.27
30.00	37.00	32.33	0.29
31.00	37.00	32.04	0.33
32.00	37.00	31.75	0.37
33.00	37.00	31.44	0.41
34.00	37.00	31.13	0.46
35.00	37.00	30.82	0.51
36.00	37.00	30.50	0.57
37.00	37.00	30.18	0.63
38.00	37.00	29.85	0.69
39.00	37.00	29.51	0.76
40.00	37.00	29.17	0.83
41.00	37.00	28.83	0.91
42.00	37.00	28.48	0.99
43.00	37.00	28.13	1.07
44.00	37.00	27.78	1.16
45.00	37.00	27.42	1.26
46.00	37.00	27.06	1.36
47.00	37.00	26.70	1.46
48.00	37.00	26.33	1.57
49.00	37.00	25.96	1.69
50.00	37.00	25.59	1.81
51.00	37.00	25.22	1.93
52.00	37.00	24.84	2.06

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	37.00	24.47	2.20
54.00	37.00	24.09	2.34
55.00	37.00	23.71	2.49
56.00	37.00	23.33	2.64
57.00	37.00	22.95	2.80
58.00	37.00	22.57	2.96
59.00	37.00	22.19	3.13
60.00	37.00	21.81	3.31
61.00	37.00	21.42	3.49
62.00	37.00	21.04	3.67
63.00	37.00	20.66	3.86
64.00	37.00	20.28	4.06
65.00	37.00	19.90	4.26
66.00	37.00	19.52	4.47
67.00	37.00	19.14	4.68
68.00	37.00	18.76	4.90
69.00	37.00	18.38	5.12
70.00	37.00	18.01	5.35
71.00	37.00	17.63	5.59
72.00	37.00	17.26	5.83
73.00	37.00	16.89	6.07
74.00	37.00	16.52	6.32
75.00	37.00	16.16	6.58
76.00	37.00	15.79	6.84
77.00	37.00	15.43	7.11
78.00	37.00	15.07	7.38
79.00	37.00	14.71	7.65
80.00	37.00	14.36	7.93
81.00	37.00	14.01	8.22
82.00	37.00	13.66	8.51
83.00	37.00	13.31	8.80
84.00	37.00	12.97	9.10
85.00	37.00	12.63	9.41
86.00	37.00	12.29	9.71
87.00	37.00	11.96	10.03
88.00	37.00	11.63	10.34
89.00	37.00	11.31	10.66
90.00	37.00	10.99	10.99
91.00	37.00	10.66	11.31
92.00	37.00	10.34	11.63
93.00	37.00	10.03	11.96
94.00	37.00	9.71	12.29
95.00	37.00	9.41	12.63
96.00	37.00	9.10	12.97
97.00	37.00	8.80	13.31
98.00	37.00	8.51	13.66
99.00	37.00	8.22	14.01
100.00	37.00	7.93	14.36
101.00	37.00	7.65	14.71
102.00	37.00	7.38	15.07
103.00	37.00	7.11	15.43
104.00	37.00	6.84	15.79
105.00	37.00	6.58	16.16
106.00	37.00	6.32	16.52
107.00	37.00	6.07	16.89
108.00	37.00	5.83	17.26
109.00	37.00	5.59	17.63
110.00	37.00	5.35	18.01

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	38.00	37.43	0.00
11.00	38.00	37.31	0.01
12.00	38.00	37.18	0.01
13.00	38.00	37.04	0.01
14.00	38.00	36.89	0.02
15.00	38.00	36.73	0.02
15.50	38.00	36.64	0.02
16.00	38.00	36.55	0.03
16.50	38.00	36.47	0.03
17.00	38.00	36.37	0.03
17.50	38.00	36.28	0.04
18.00	38.00	36.18	0.04
18.50	38.00	36.08	0.05
19.00	38.00	35.98	0.05
19.50	38.00	35.88	0.06
20.00	38.00	35.77	0.06
20.50	38.00	35.66	0.07
21.00	38.00	35.55	0.08
21.50	38.00	35.44	0.09
22.00	38.00	35.33	0.09
22.50	38.00	35.21	0.10
23.00	38.00	35.09	0.11
23.50	38.00	34.97	0.12
24.00	38.00	34.84	0.13
24.50	38.00	34.72	0.14
25.00	38.00	34.59	0.15
25.50	38.00	34.46	0.16
26.00	38.00	34.33	0.18
26.50	38.00	34.20	0.19
27.00	38.00	34.06	0.20
27.50	38.00	33.92	0.22
28.00	38.00	33.79	0.23
28.50	38.00	33.64	0.25
29.00	38.00	33.50	0.27
29.50	38.00	33.36	0.28
30.00	38.00	33.21	0.30
31.00	38.00	32.91	0.34
32.00	38.00	32.61	0.38
33.00	38.00	32.30	0.43
34.00	38.00	31.98	0.48
35.00	38.00	31.66	0.53
36.00	38.00	31.33	0.59
37.00	38.00	31.00	0.65
38.00	38.00	30.66	0.72
39.00	38.00	30.32	0.79
40.00	38.00	29.98	0.87
41.00	38.00	29.62	0.94
42.00	38.00	29.27	1.03
43.00	38.00	28.91	1.12
44.00	38.00	28.55	1.21
45.00	38.00	28.18	1.31
46.00	38.00	27.81	1.41
47.00	38.00	27.44	1.52
48.00	38.00	27.06	1.64
49.00	38.00	26.69	1.76
50.00	38.00	26.31	1.88
51.00	38.00	25.93	2.01
52.00	38.00	25.54	2.15

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	38.00	25.16	2.29
54.00	38.00	24.77	2.43
55.00	38.00	24.38	2.59
56.00	38.00	23.99	2.75
57.00	38.00	23.60	2.91
58.00	38.00	23.21	3.08
59.00	38.00	22.82	3.25
60.00	38.00	22.43	3.43
61.00	38.00	22.04	3.62
62.00	38.00	21.65	3.81
63.00	38.00	21.26	4.01
64.00	38.00	20.87	4.21
65.00	38.00	20.48	4.42
66.00	38.00	20.09	4.64
67.00	38.00	19.70	4.86
68.00	38.00	19.32	5.08
69.00	38.00	18.93	5.31
70.00	38.00	18.55	5.55
71.00	38.00	18.16	5.79
72.00	38.00	17.78	6.04
73.00	38.00	17.40	6.29
74.00	38.00	17.03	6.55
75.00	38.00	16.65	6.81
76.00	38.00	16.28	7.08
77.00	38.00	15.91	7.36
78.00	38.00	15.54	7.64
79.00	38.00	15.17	7.92
80.00	38.00	14.81	8.21
81.00	38.00	14.45	8.50
82.00	38.00	14.09	8.80
83.00	38.00	13.74	9.11
84.00	38.00	13.38	9.41
85.00	38.00	13.04	9.73
86.00	38.00	12.69	10.04
87.00	38.00	12.35	10.36
88.00	38.00	12.01	10.69
89.00	38.00	11.68	11.02
90.00	38.00	11.35	11.35
91.00	38.00	11.02	11.68
92.00	38.00	10.69	12.01
93.00	38.00	10.36	12.35
94.00	38.00	10.04	12.69
95.00	38.00	9.73	13.04
96.00	38.00	9.41	13.38
97.00	38.00	9.11	13.74
98.00	38.00	8.80	14.09
99.00	38.00	8.50	14.45
100.00	38.00	8.21	14.81
101.00	38.00	7.92	15.17
102.00	38.00	7.64	15.54
103.00	38.00	7.36	15.91
104.00	38.00	7.08	16.28
105.00	38.00	6.81	16.65
106.00	38.00	6.55	17.02
107.00	38.00	6.29	17.40
108.00	38.00	6.04	17.78
109.00	38.00	5.79	18.16
110.00	38.00	5.55	18.55

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	39.00	38.41	0.00
11.00	39.00	38.29	0.01
12.00	39.00	38.16	0.01
13.00	39.00	38.01	0.01
14.00	39.00	37.86	0.02
15.00	39.00	37.69	0.02
15.50	39.00	37.61	0.03
16.00	39.00	37.52	0.03
16.50	39.00	37.43	0.03
17.00	39.00	37.33	0.04
17.50	39.00	37.24	0.04
18.00	39.00	37.14	0.04
18.50	39.00	37.03	0.05
19.00	39.00	36.93	0.06
19.50	39.00	36.82	0.06
20.00	39.00	36.72	0.07
20.50	39.00	36.60	0.07
21.00	39.00	36.49	0.08
21.50	39.00	36.38	0.09
22.00	39.00	36.26	0.10
22.50	39.00	36.14	0.11
23.00	39.00	36.02	0.12
23.50	39.00	35.89	0.13
24.00	39.00	35.76	0.14
24.50	39.00	35.64	0.15
25.00	39.00	35.50	0.16
25.50	39.00	35.37	0.17
26.00	39.00	35.24	0.18
26.50	39.00	35.10	0.20
27.00	39.00	34.96	0.21
27.50	39.00	34.82	0.23
28.00	39.00	34.68	0.24
28.50	39.00	34.53	0.26
29.00	39.00	34.39	0.28
29.50	39.00	34.24	0.30
30.00	39.00	34.09	0.32
31.00	39.00	33.79	0.36
32.00	39.00	33.48	0.40
33.00	39.00	33.16	0.45
34.00	39.00	32.83	0.50
35.00	39.00	32.50	0.56
36.00	39.00	32.17	0.62
37.00	39.00	31.83	0.68
38.00	39.00	31.48	0.75
39.00	39.00	31.13	0.82
40.00	39.00	30.78	0.90
41.00	39.00	30.42	0.98
42.00	39.00	30.05	1.07
43.00	39.00	29.69	1.16
44.00	39.00	29.32	1.26
45.00	39.00	28.94	1.36
46.00	39.00	28.56	1.47
47.00	39.00	28.18	1.59
48.00	39.00	27.80	1.70
49.00	39.00	27.41	1.83
50.00	39.00	27.03	1.96
51.00	39.00	26.64	2.09
52.00	39.00	26.24	2.23

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	39.00	25.85	2.38
54.00	39.00	25.45	2.53
55.00	39.00	25.06	2.69
56.00	39.00	24.66	2.85
57.00	39.00	24.26	3.02
58.00	39.00	23.86	3.20
59.00	39.00	23.46	3.38
60.00	39.00	23.06	3.56
61.00	39.00	22.66	3.76
62.00	39.00	22.26	3.95
63.00	39.00	21.86	4.16
64.00	39.00	21.47	4.37
65.00	39.00	21.07	4.58
66.00	39.00	20.67	4.81
67.00	39.00	20.27	5.03
68.00	39.00	19.88	5.27
69.00	39.00	19.48	5.51
70.00	39.00	19.09	5.75
71.00	39.00	18.70	6.00
72.00	39.00	18.31	6.25
73.00	39.00	17.92	6.52
74.00	39.00	17.53	6.78
75.00	39.00	17.15	7.05
76.00	39.00	16.77	7.33
77.00	39.00	16.39	7.61
78.00	39.00	16.01	7.90
79.00	39.00	15.63	8.19
80.00	39.00	15.26	8.49
81.00	39.00	14.89	8.79
82.00	39.00	14.53	9.10
83.00	39.00	14.16	9.41
84.00	39.00	13.81	9.73
85.00	39.00	13.45	10.05
86.00	39.00	13.10	10.38
87.00	39.00	12.75	10.71
88.00	39.00	12.40	11.04
89.00	39.00	12.06	11.38
90.00	39.00	11.72	11.72
91.00	39.00	11.38	12.06
92.00	39.00	11.04	12.40
93.00	39.00	10.71	12.75
94.00	39.00	10.38	13.10
95.00	39.00	10.05	13.45
96.00	39.00	9.73	13.81
97.00	39.00	9.41	14.16
98.00	39.00	9.10	14.53
99.00	39.00	8.79	14.89
100.00	39.00	8.49	15.26
101.00	39.00	8.19	15.63
102.00	39.00	7.90	16.01
103.00	39.00	7.61	16.39
104.00	39.00	7.33	16.77
105.00	39.00	7.05	17.15
106.00	39.00	6.78	17.53
107.00	39.00	6.52	17.92
108.00	39.00	6.25	18.31
109.00	39.00	6.00	18.70
110.00	39.00	5.75	19.09

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	40.00	39.40	0.00
11.00	40.00	39.27	0.01
12.00	40.00	39.14	0.01
13.00	40.00	38.99	0.01
14.00	40.00	38.83	0.02
15.00	40.00	38.66	0.02
15.50	40.00	38.57	0.03
16.00	40.00	38.48	0.03
16.50	40.00	38.39	0.03
17.00	40.00	38.29	0.04
17.50	40.00	38.19	0.04
18.00	40.00	38.09	0.05
18.50	40.00	37.99	0.05
19.00	40.00	37.88	0.06
19.50	40.00	37.77	0.06
20.00	40.00	37.66	0.07
20.50	40.00	37.54	0.08
21.00	40.00	37.43	0.09
21.50	40.00	37.31	0.09
22.00	40.00	37.19	0.10
22.50	40.00	37.07	0.11
23.00	40.00	36.94	0.12
23.50	40.00	36.81	0.13
24.00	40.00	36.68	0.14
24.50	40.00	36.55	0.15
25.00	40.00	36.42	0.17
25.50	40.00	36.28	0.18
26.00	40.00	36.14	0.19
26.50	40.00	36.00	0.21
27.00	40.00	35.86	0.22
27.50	40.00	35.72	0.24
28.00	40.00	35.57	0.25
28.50	40.00	35.43	0.27
29.00	40.00	35.28	0.29
29.50	40.00	35.12	0.31
30.00	40.00	34.97	0.33
31.00	40.00	34.66	0.37
32.00	40.00	34.34	0.42
33.00	40.00	34.02	0.47
34.00	40.00	33.68	0.52
35.00	40.00	33.35	0.58
36.00	40.00	33.00	0.64
37.00	40.00	32.66	0.71
38.00	40.00	32.30	0.78
39.00	40.00	31.94	0.86
40.00	40.00	31.58	0.94
41.00	40.00	31.21	1.03
42.00	40.00	30.84	1.12
43.00	40.00	30.47	1.21
44.00	40.00	30.09	1.31
45.00	40.00	29.70	1.42
46.00	40.00	29.32	1.53
47.00	40.00	28.93	1.65
48.00	40.00	28.54	1.77
49.00	40.00	28.14	1.90
50.00	40.00	27.75	2.03
51.00	40.00	27.35	2.17
52.00	40.00	26.95	2.32

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	40.00	26.54	2.47
54.00	40.00	26.14	2.63
55.00	40.00	25.74	2.79
56.00	40.00	25.33	2.96
57.00	40.00	24.92	3.14
58.00	40.00	24.51	3.32
59.00	40.00	24.11	3.50
60.00	40.00	23.70	3.70
61.00	40.00	23.29	3.90
62.00	40.00	22.88	4.10
63.00	40.00	22.47	4.31
64.00	40.00	22.06	4.53
65.00	40.00	21.66	4.75
66.00	40.00	21.25	4.98
67.00	40.00	20.84	5.22
68.00	40.00	20.44	5.46
69.00	40.00	20.04	5.70
70.00	40.00	19.63	5.95
71.00	40.00	19.23	6.21
72.00	40.00	18.84	6.47
73.00	40.00	18.44	6.74
74.00	40.00	18.04	7.02
75.00	40.00	17.65	7.30
76.00	40.00	17.26	7.58
77.00	40.00	16.87	7.87
78.00	40.00	16.49	8.17
79.00	40.00	16.10	8.47
80.00	40.00	15.72	8.78
81.00	40.00	15.34	9.09
82.00	40.00	14.97	9.40
83.00	40.00	14.60	9.72
84.00	40.00	14.23	10.05
85.00	40.00	13.87	10.38
86.00	40.00	13.50	10.71
87.00	40.00	13.15	11.05
88.00	40.00	12.79	11.40
89.00	40.00	12.44	11.74
90.00	40.00	12.09	12.09
91.00	40.00	11.74	12.44
92.00	40.00	11.40	12.79
93.00	40.00	11.05	13.15
94.00	40.00	10.71	13.50
95.00	40.00	10.38	13.87
96.00	40.00	10.05	14.23
97.00	40.00	9.72	14.60
98.00	40.00	9.40	14.97
99.00	40.00	9.09	15.34
100.00	40.00	8.78	15.72
101.00	40.00	8.47	16.10
102.00	40.00	8.17	16.49
103.00	40.00	7.87	16.87
104.00	40.00	7.58	17.26
105.00	40.00	7.30	17.65
106.00	40.00	7.02	18.04
107.00	40.00	6.74	18.44
108.00	40.00	6.47	18.84
109.00	40.00	6.21	19.23
110.00	40.00	5.95	19.63

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	41.00	40.38	0.00
11.00	41.00	40.25	0.01
12.00	41.00	40.11	0.01
13.00	41.00	39.96	0.01
14.00	41.00	39.80	0.02
15.00	41.00	39.63	0.02
15.50	41.00	39.54	0.03
16.00	41.00	39.44	0.03
16.50	41.00	39.35	0.03
17.00	41.00	39.25	0.04
17.50	41.00	39.15	0.04
18.00	41.00	39.04	0.05
18.50	41.00	38.94	0.05
19.00	41.00	38.83	0.06
19.50	41.00	38.72	0.07
20.00	41.00	38.60	0.07
20.50	41.00	38.48	0.08
21.00	41.00	38.37	0.09
21.50	41.00	38.24	0.10
22.00	41.00	38.12	0.11
22.50	41.00	38.00	0.12
23.00	41.00	37.87	0.13
23.50	41.00	37.74	0.14
24.00	41.00	37.60	0.15
24.50	41.00	37.47	0.16
25.00	41.00	37.33	0.17
25.50	41.00	37.19	0.19
26.00	41.00	37.05	0.20
26.50	41.00	36.91	0.22
27.00	41.00	36.76	0.23
27.50	41.00	36.62	0.25
28.00	41.00	36.47	0.27
28.50	41.00	36.32	0.28
29.00	41.00	36.16	0.30
29.50	41.00	36.01	0.32
30.00	41.00	35.85	0.34
31.00	41.00	35.53	0.39
32.00	41.00	35.21	0.44
33.00	41.00	34.87	0.49
34.00	41.00	34.54	0.55
35.00	41.00	34.19	0.61
36.00	41.00	33.84	0.67
37.00	41.00	33.49	0.74
38.00	41.00	33.12	0.82
39.00	41.00	32.76	0.89
40.00	41.00	32.39	0.98
41.00	41.00	32.01	1.07
42.00	41.00	31.63	1.16
43.00	41.00	31.25	1.26
44.00	41.00	30.86	1.37
45.00	41.00	30.47	1.48
46.00	41.00	30.07	1.59
47.00	41.00	29.68	1.72
48.00	41.00	29.28	1.84
49.00	41.00	28.87	1.98
50.00	41.00	28.47	2.11
51.00	41.00	28.06	2.26
52.00	41.00	27.65	2.41

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	41.00	27.24	2.57
54.00	41.00	26.83	2.73
55.00	41.00	26.42	2.90
56.00	41.00	26.00	3.07
57.00	41.00	25.58	3.25
58.00	41.00	25.17	3.44
59.00	41.00	24.75	3.64
60.00	41.00	24.33	3.83
61.00	41.00	23.92	4.04
62.00	41.00	23.50	4.25
63.00	41.00	23.08	4.47
64.00	41.00	22.67	4.69
65.00	41.00	22.25	4.92
66.00	41.00	21.84	5.16
67.00	41.00	21.42	5.40
68.00	41.00	21.01	5.65
69.00	41.00	20.60	5.90
70.00	41.00	20.18	6.16
71.00	41.00	19.78	6.43
72.00	41.00	19.37	6.70
73.00	41.00	18.96	6.98
74.00	41.00	18.56	7.26
75.00	41.00	18.16	7.55
76.00	41.00	17.76	7.84
77.00	41.00	17.36	8.14
78.00	41.00	16.97	8.44
79.00	41.00	16.58	8.75
80.00	41.00	16.19	9.07
81.00	41.00	15.80	9.39
82.00	41.00	15.42	9.71
83.00	41.00	15.04	10.04
84.00	41.00	14.66	10.38
85.00	41.00	14.29	10.71
86.00	41.00	13.92	11.06
87.00	41.00	13.55	11.41
88.00	41.00	13.19	11.76
89.00	41.00	12.83	12.11
90.00	41.00	12.48	12.48
91.00	41.00	12.11	12.83
92.00	41.00	11.76	13.19
93.00	41.00	11.41	13.55
94.00	41.00	11.06	13.92
95.00	41.00	10.71	14.29
96.00	41.00	10.38	14.66
97.00	41.00	10.04	15.04
98.00	41.00	9.71	15.42
99.00	41.00	9.39	15.80
100.00	41.00	9.07	16.19
101.00	41.00	8.75	16.58
102.00	41.00	8.44	16.97
103.00	41.00	8.14	17.36
104.00	41.00	7.84	17.76
105.00	41.00	7.55	18.16
106.00	41.00	7.26	18.56
107.00	41.00	6.98	18.96
108.00	41.00	6.70	19.37
109.00	41.00	6.43	19.78
110.00	41.00	6.16	20.18

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	42.00	41.37	0.01
11.00	42.00	41.24	0.01
12.00	42.00	41.09	0.01
13.00	42.00	40.94	0.01
14.00	42.00	40.77	0.02
15.00	42.00	40.59	0.03
15.50	42.00	40.50	0.03
16.00	42.00	40.41	0.03
16.50	42.00	40.31	0.04
17.00	42.00	40.21	0.04
17.50	42.00	40.10	0.05
18.00	42.00	40.00	0.05
18.50	42.00	39.89	0.06
19.00	42.00	39.78	0.06
19.50	42.00	39.66	0.07
20.00	42.00	39.54	0.08
20.50	42.00	39.43	0.08
21.00	42.00	39.30	0.09
21.50	42.00	39.18	0.10
22.00	42.00	39.05	0.11
22.50	42.00	38.92	0.12
23.00	42.00	38.79	0.13
23.50	42.00	38.66	0.14
24.00	42.00	38.52	0.16
24.50	42.00	38.39	0.17
25.00	42.00	38.25	0.18
25.50	42.00	38.10	0.20
26.00	42.00	37.96	0.21
26.50	42.00	37.81	0.23
27.00	42.00	37.66	0.24
27.50	42.00	37.51	0.26
28.00	42.00	37.36	0.28
28.50	42.00	37.21	0.30
29.00	42.00	37.05	0.32
29.50	42.00	36.89	0.34
30.00	42.00	36.73	0.36
31.00	42.00	36.41	0.41
32.00	42.00	36.07	0.46
33.00	42.00	35.73	0.51
34.00	42.00	35.39	0.57
35.00	42.00	35.04	0.63
36.00	42.00	34.68	0.70
37.00	42.00	34.31	0.77
38.00	42.00	33.95	0.85
39.00	42.00	33.57	0.93
40.00	42.00	33.19	1.02
41.00	42.00	32.81	1.11
42.00	42.00	32.42	1.21
43.00	42.00	32.03	1.31
44.00	42.00	31.63	1.42
45.00	42.00	31.23	1.54
46.00	42.00	30.83	1.66
47.00	42.00	30.43	1.78
48.00	42.00	30.02	1.91
49.00	42.00	29.61	2.05
50.00	42.00	29.19	2.20
51.00	42.00	28.78	2.35
52.00	42.00	28.36	2.50

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	42.00	27.94	2.66
54.00	42.00	27.52	2.83
55.00	42.00	27.10	3.01
56.00	42.00	26.67	3.19
57.00	42.00	26.25	3.38
58.00	42.00	25.83	3.57
59.00	42.00	25.40	3.77
60.00	42.00	24.97	3.97
61.00	42.00	24.55	4.19
62.00	42.00	24.12	4.41
63.00	42.00	23.70	4.63
64.00	42.00	23.27	4.86
65.00	42.00	22.85	5.10
66.00	42.00	22.42	5.34
67.00	42.00	22.00	5.59
68.00	42.00	21.58	5.85
69.00	42.00	21.16	6.11
70.00	42.00	20.74	6.37
71.00	42.00	20.32	6.65
72.00	42.00	19.91	6.93
73.00	42.00	19.49	7.21
74.00	42.00	19.08	7.50
75.00	42.00	18.67	7.80
76.00	42.00	18.26	8.10
77.00	42.00	17.86	8.41
78.00	42.00	17.45	8.72
79.00	42.00	17.05	9.04
80.00	42.00	16.66	9.36
81.00	42.00	16.26	9.69
82.00	42.00	15.87	10.03
83.00	42.00	15.48	10.36
84.00	42.00	15.10	10.71
85.00	42.00	14.72	11.06
86.00	42.00	14.34	11.41
87.00	42.00	13.96	11.76
88.00	42.00	13.59	12.13
89.00	42.00	13.22	12.49
90.00	42.00	12.86	12.86
91.00	42.00	12.49	13.22
92.00	42.00	12.13	13.59
93.00	42.00	11.76	13.96
94.00	42.00	11.41	14.34
95.00	42.00	11.06	14.72
96.00	42.00	10.71	15.10
97.00	42.00	10.36	15.48
98.00	42.00	10.03	15.87
99.00	42.00	9.69	16.26
100.00	42.00	9.36	16.66
101.00	42.00	9.04	17.05
102.00	42.00	8.72	17.45
103.00	42.00	8.41	17.86
104.00	42.00	8.10	18.26
105.00	42.00	7.80	18.67
106.00	42.00	7.50	19.08
107.00	42.00	7.21	19.49
108.00	42.00	6.93	19.91
109.00	42.00	6.65	20.32
110.00	42.00	6.37	20.74

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	43.00	42.35	0.01
11.00	43.00	42.22	0.01
12.00	43.00	42.07	0.01
13.00	43.00	41.91	0.02
14.00	43.00	41.74	0.02
15.00	43.00	41.56	0.03
15.50	43.00	41.47	0.03
16.00	43.00	41.37	0.03
16.50	43.00	41.27	0.04
17.00	43.00	41.16	0.04
17.50	43.00	41.06	0.05
18.00	43.00	40.95	0.05
18.50	43.00	40.84	0.06
19.00	43.00	40.72	0.07
19.50	43.00	40.61	0.07
20.00	43.00	40.49	0.08
20.50	43.00	40.37	0.09
21.00	43.00	40.24	0.10
21.50	43.00	40.11	0.11
22.00	43.00	39.99	0.12
22.50	43.00	39.85	0.13
23.00	43.00	39.72	0.14
23.50	43.00	39.58	0.15
24.00	43.00	39.44	0.16
24.50	43.00	39.30	0.18
25.00	43.00	39.16	0.19
25.50	43.00	39.02	0.20
26.00	43.00	38.87	0.22
26.50	43.00	38.72	0.24
27.00	43.00	38.57	0.25
27.50	43.00	38.41	0.27
28.00	43.00	38.26	0.29
28.50	43.00	38.10	0.31
29.00	43.00	37.94	0.33
29.50	43.00	37.78	0.35
30.00	43.00	37.61	0.37
31.00	43.00	37.28	0.42
32.00	43.00	36.94	0.47
33.00	43.00	36.59	0.53
34.00	43.00	36.24	0.59
35.00	43.00	35.88	0.66
36.00	43.00	35.52	0.73
37.00	43.00	35.15	0.80
38.00	43.00	34.77	0.88
39.00	43.00	34.39	0.97
40.00	43.00	34.00	1.06
41.00	43.00	33.61	1.16
42.00	43.00	33.21	1.26
43.00	43.00	32.81	1.37
44.00	43.00	32.41	1.48
45.00	43.00	32.00	1.60
46.00	43.00	31.59	1.72
47.00	43.00	31.18	1.85
48.00	43.00	30.76	1.99
49.00	43.00	30.34	2.13
50.00	43.00	29.92	2.28
51.00	43.00	29.50	2.44
52.00	43.00	29.07	2.60

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	43.00	28.64	2.76
54.00	43.00	28.21	2.94
55.00	43.00	27.78	3.12
56.00	43.00	27.35	3.31
57.00	43.00	26.92	3.50
58.00	43.00	26.49	3.70
59.00	43.00	26.05	3.91
60.00	43.00	25.62	4.12
61.00	43.00	25.18	4.34
62.00	43.00	24.75	4.56
63.00	43.00	24.32	4.79
64.00	43.00	23.88	5.03
65.00	43.00	23.45	5.28
66.00	43.00	23.02	5.53
67.00	43.00	22.59	5.78
68.00	43.00	22.16	6.05
69.00	43.00	21.73	6.32
70.00	43.00	21.30	6.59
71.00	43.00	20.87	6.87
72.00	43.00	20.45	7.16
73.00	43.00	20.03	7.45
74.00	43.00	19.61	7.75
75.00	43.00	19.19	8.06
76.00	43.00	18.77	8.37
77.00	43.00	18.36	8.68
78.00	43.00	17.95	9.01
79.00	43.00	17.54	9.33
80.00	43.00	17.13	9.66
81.00	43.00	16.73	10.00
82.00	43.00	16.33	10.34
83.00	43.00	15.93	10.69
84.00	43.00	15.54	11.04
85.00	43.00	15.15	11.40
86.00	43.00	14.76	11.76
87.00	43.00	14.38	12.13
88.00	43.00	14.00	12.50
89.00	43.00	13.63	12.88
90.00	43.00	13.25	13.25
91.00	43.00	12.88	13.63
92.00	43.00	12.50	14.00
93.00	43.00	12.13	14.38
94.00	43.00	11.76	14.76
95.00	43.00	11.40	15.15
96.00	43.00	11.04	15.54
97.00	43.00	10.69	15.93
98.00	43.00	10.34	16.33
99.00	43.00	10.00	16.73
100.00	43.00	9.66	17.13
101.00	43.00	9.33	17.54
102.00	43.00	9.01	17.95
103.00	43.00	8.68	18.36
104.00	43.00	8.37	18.77
105.00	43.00	8.06	19.19
106.00	43.00	7.75	19.61
107.00	43.00	7.45	20.03
108.00	43.00	7.16	20.45
109.00	43.00	6.87	20.87
110.00	43.00	6.59	21.30

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	44.00	43.34	0.01
11.00	44.00	43.20	0.01
12.00	44.00	43.05	0.01
13.00	44.00	42.89	0.02
14.00	44.00	42.71	0.02
15.00	44.00	42.53	0.03
15.50	44.00	42.43	0.03
16.00	44.00	42.33	0.04
16.50	44.00	42.23	0.04
17.00	44.00	42.12	0.04
17.50	44.00	42.01	0.05
18.00	44.00	41.90	0.06
18.50	44.00	41.79	0.06
19.00	44.00	41.67	0.07
19.50	44.00	41.55	0.08
20.00	44.00	41.43	0.08
20.50	44.00	41.31	0.09
21.00	44.00	41.18	0.10
21.50	44.00	41.05	0.11
22.00	44.00	40.92	0.12
22.50	44.00	40.78	0.13
23.00	44.00	40.65	0.14
23.50	44.00	40.51	0.16
24.00	44.00	40.37	0.17
24.50	44.00	40.22	0.18
25.00	44.00	40.07	0.20
25.50	44.00	39.93	0.21
26.00	44.00	39.78	0.23
26.50	44.00	39.62	0.25
27.00	44.00	39.47	0.26
27.50	44.00	39.31	0.28
28.00	44.00	39.15	0.30
28.50	44.00	38.99	0.32
29.00	44.00	38.83	0.34
29.50	44.00	38.66	0.37
30.00	44.00	38.50	0.39
31.00	44.00	38.16	0.44
32.00	44.00	37.81	0.49
33.00	44.00	37.46	0.55
34.00	44.00	37.09	0.62
35.00	44.00	36.73	0.69
36.00	44.00	36.36	0.76
37.00	44.00	35.98	0.84
38.00	44.00	35.59	0.92
39.00	44.00	35.20	1.01
40.00	44.00	34.81	1.10
41.00	44.00	34.41	1.20
42.00	44.00	34.01	1.31
43.00	44.00	33.60	1.42
44.00	44.00	33.19	1.54
45.00	44.00	32.77	1.66
46.00	44.00	32.35	1.79
47.00	44.00	31.93	1.92
48.00	44.00	31.51	2.06
49.00	44.00	31.08	2.21
50.00	44.00	30.65	2.37
51.00	44.00	30.22	2.53
52.00	44.00	29.78	2.69

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	44.00	29.35	2.87
54.00	44.00	28.91	3.05
55.00	44.00	28.47	3.23
56.00	44.00	28.03	3.43
57.00	44.00	27.59	3.63
58.00	44.00	27.15	3.83
59.00	44.00	26.71	4.05
60.00	44.00	26.26	4.26
61.00	44.00	25.82	4.49
62.00	44.00	25.38	4.72
63.00	44.00	24.94	4.96
64.00	44.00	24.50	5.21
65.00	44.00	24.05	5.46
66.00	44.00	23.61	5.72
67.00	44.00	23.17	5.98
68.00	44.00	22.74	6.25
69.00	44.00	22.30	6.53
70.00	44.00	21.86	6.81
71.00	44.00	21.43	7.10
72.00	44.00	21.00	7.40
73.00	44.00	20.56	7.70
74.00	44.00	20.14	8.01
75.00	44.00	19.71	8.32
76.00	44.00	19.28	8.64
77.00	44.00	18.86	8.96
78.00	44.00	18.44	9.30
79.00	44.00	18.03	9.63
80.00	44.00	17.61	9.97
81.00	44.00	17.20	10.32
82.00	44.00	16.79	10.67
83.00	44.00	16.39	11.03
84.00	44.00	15.99	11.39
85.00	44.00	15.59	11.75
86.00	44.00	15.19	12.12
87.00	44.00	14.80	12.50
88.00	44.00	14.42	12.88
89.00	44.00	14.03	13.26
90.00	44.00	13.65	13.65
91.00	44.00	13.26	14.03
92.00	44.00	12.88	14.42
93.00	44.00	12.50	14.80
94.00	44.00	12.12	15.19
95.00	44.00	11.75	15.59
96.00	44.00	11.39	15.99
97.00	44.00	11.03	16.39
98.00	44.00	10.67	16.79
99.00	44.00	10.32	17.20
100.00	44.00	9.97	17.61
101.00	44.00	9.63	18.03
102.00	44.00	9.30	18.44
103.00	44.00	8.96	18.86
104.00	44.00	8.64	19.28
105.00	44.00	8.32	19.71
106.00	44.00	8.01	20.14
107.00	44.00	7.70	20.56
108.00	44.00	7.40	21.00
109.00	44.00	7.10	21.43
110.00	44.00	6.81	21.86

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	45.00	44.32	0.01
11.00	45.00	44.18	0.01
12.00	45.00	44.03	0.01
13.00	45.00	43.86	0.02
14.00	45.00	43.69	0.02
15.00	45.00	43.50	0.03
15.50	45.00	43.40	0.03
16.00	45.00	43.29	0.04
16.50	45.00	43.19	0.04
17.00	45.00	43.08	0.05
17.50	45.00	42.97	0.05
18.00	45.00	42.86	0.06
18.50	45.00	42.74	0.07
19.00	45.00	42.62	0.07
19.50	45.00	42.50	0.08
20.00	45.00	42.37	0.09
20.50	45.00	42.25	0.10
21.00	45.00	42.12	0.11
21.50	45.00	41.98	0.12
22.00	45.00	41.85	0.13
22.50	45.00	41.71	0.14
23.00	45.00	41.57	0.15
23.50	45.00	41.43	0.16
24.00	45.00	41.29	0.18
24.50	45.00	41.14	0.19
25.00	45.00	40.99	0.21
25.50	45.00	40.84	0.22
26.00	45.00	40.68	0.24
26.50	45.00	40.53	0.26
27.00	45.00	40.37	0.27
27.50	45.00	40.21	0.29
28.00	45.00	40.05	0.31
28.50	45.00	39.88	0.34
29.00	45.00	39.72	0.36
29.50	45.00	39.55	0.38
30.00	45.00	39.38	0.41
31.00	45.00	39.03	0.46
32.00	45.00	38.68	0.52
33.00	45.00	38.32	0.58
34.00	45.00	37.95	0.64
35.00	45.00	37.58	0.71
36.00	45.00	37.20	0.79
37.00	45.00	36.81	0.87
38.00	45.00	36.42	0.96
39.00	45.00	36.02	1.05
40.00	45.00	35.62	1.15
41.00	45.00	35.21	1.25
42.00	45.00	34.80	1.36
43.00	45.00	34.39	1.47
44.00	45.00	33.97	1.60
45.00	45.00	33.54	1.72
46.00	45.00	33.12	1.86
47.00	45.00	32.69	2.00
48.00	45.00	32.25	2.14
49.00	45.00	31.82	2.30
50.00	45.00	31.38	2.46
51.00	45.00	30.94	2.62
52.00	45.00	30.50	2.79

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	45.00	30.05	2.97
54.00	45.00	29.61	3.16
55.00	45.00	29.16	3.35
56.00	45.00	28.71	3.55
57.00	45.00	28.27	3.76
58.00	45.00	27.82	3.97
59.00	45.00	27.37	4.19
60.00	45.00	26.92	4.42
61.00	45.00	26.46	4.65
62.00	45.00	26.01	4.89
63.00	45.00	25.56	5.13
64.00	45.00	25.11	5.39
65.00	45.00	24.66	5.65
66.00	45.00	24.22	5.91
67.00	45.00	23.77	6.18
68.00	45.00	23.32	6.46
69.00	45.00	22.88	6.75
70.00	45.00	22.43	7.04
71.00	45.00	21.99	7.34
72.00	45.00	21.55	7.64
73.00	45.00	21.11	7.95
74.00	45.00	20.67	8.27
75.00	45.00	20.24	8.59
76.00	45.00	19.80	8.92
77.00	45.00	19.37	9.25
78.00	45.00	18.95	9.59
79.00	45.00	18.52	9.93
80.00	45.00	18.10	10.28
81.00	45.00	17.68	10.64
82.00	45.00	17.26	11.00
83.00	45.00	16.85	11.37
84.00	45.00	16.44	11.74
85.00	45.00	16.03	12.11
86.00	45.00	15.63	12.49
87.00	45.00	15.23	12.88
88.00	45.00	14.84	13.27
89.00	45.00	14.45	13.66
90.00	45.00	14.06	14.06
91.00	45.00	13.66	14.45
92.00	45.00	13.27	14.84
93.00	45.00	12.88	15.23
94.00	45.00	12.49	15.63
95.00	45.00	12.11	16.03
96.00	45.00	11.74	16.44
97.00	45.00	11.37	16.85
98.00	45.00	11.00	17.26
99.00	45.00	10.64	17.68
100.00	45.00	10.28	18.10
101.00	45.00	9.93	18.52
102.00	45.00	9.59	18.95
103.00	45.00	9.25	19.37
104.00	45.00	8.92	19.80
105.00	45.00	8.59	20.24
106.00	45.00	8.27	20.67
107.00	45.00	7.95	21.11
108.00	45.00	7.64	21.55
109.00	45.00	7.34	21.99
110.00	45.00	7.04	22.43

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	46.00	45.31	0.01
11.00	46.00	45.16	0.01
12.00	46.00	45.01	0.01
13.00	46.00	44.84	0.02
14.00	46.00	44.66	0.02
15.00	46.00	44.46	0.03
15.50	46.00	44.36	0.03
16.00	46.00	44.26	0.04
16.50	46.00	44.15	0.04
17.00	46.00	44.04	0.05
17.50	46.00	43.93	0.05
18.00	46.00	43.81	0.06
18.50	46.00	43.69	0.07
19.00	46.00	43.57	0.08
19.50	46.00	43.44	0.08
20.00	46.00	43.32	0.09
20.50	46.00	43.19	0.10
21.00	46.00	43.06	0.11
21.50	46.00	42.92	0.12
22.00	46.00	42.78	0.13
22.50	46.00	42.64	0.14
23.00	46.00	42.50	0.16
23.50	46.00	42.35	0.17
24.00	46.00	42.21	0.18
24.50	46.00	42.06	0.20
25.00	46.00	41.90	0.21
25.50	46.00	41.75	0.23
26.00	46.00	41.59	0.25
26.50	46.00	41.43	0.27
27.00	46.00	41.27	0.29
27.50	46.00	41.11	0.31
28.00	46.00	40.94	0.33
28.50	46.00	40.78	0.35
29.00	46.00	40.61	0.37
29.50	46.00	40.43	0.40
30.00	46.00	40.26	0.42
31.00	46.00	39.91	0.48
32.00	46.00	39.55	0.54
33.00	46.00	39.18	0.60
34.00	46.00	38.80	0.67
35.00	46.00	38.42	0.74
36.00	46.00	38.04	0.82
37.00	46.00	37.64	0.91
38.00	46.00	37.24	1.00
39.00	46.00	36.84	1.09
40.00	46.00	36.43	1.19
41.00	46.00	36.02	1.30
42.00	46.00	35.60	1.41
43.00	46.00	35.17	1.53
44.00	46.00	34.75	1.66
45.00	46.00	34.32	1.79
46.00	46.00	33.88	1.93
47.00	46.00	33.44	2.07
48.00	46.00	33.00	2.22
49.00	46.00	32.56	2.38
50.00	46.00	32.11	2.55
51.00	46.00	31.67	2.72
52.00	46.00	31.22	2.90

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	46.00	30.76	3.08
54.00	46.00	30.31	3.27
55.00	46.00	29.86	3.47
56.00	46.00	29.40	3.68
57.00	46.00	28.94	3.89
58.00	46.00	28.49	4.11
59.00	46.00	28.03	4.34
60.00	46.00	27.57	4.57
61.00	46.00	27.11	4.81
62.00	46.00	26.65	5.06
63.00	46.00	26.19	5.31
64.00	46.00	25.74	5.57
65.00	46.00	25.28	5.84
66.00	46.00	24.82	6.11
67.00	46.00	24.37	6.39
68.00	46.00	23.91	6.68
69.00	46.00	23.46	6.97
70.00	46.00	23.00	7.27
71.00	46.00	22.55	7.58
72.00	46.00	22.10	7.89
73.00	46.00	21.66	8.21
74.00	46.00	21.21	8.53
75.00	46.00	20.77	8.86
76.00	46.00	20.33	9.20
77.00	46.00	19.89	9.54
78.00	46.00	19.46	9.89
79.00	46.00	19.02	10.24
80.00	46.00	18.59	10.60
81.00	46.00	18.16	10.97
82.00	46.00	17.74	11.34
83.00	46.00	17.32	11.71
84.00	46.00	16.90	12.09
85.00	46.00	16.49	12.48
86.00	46.00	16.08	12.87
87.00	46.00	15.67	13.26
88.00	46.00	15.27	13.66
89.00	46.00	14.87	14.06
90.00	46.00	14.47	14.47
91.00	46.00	14.06	14.87
92.00	46.00	13.66	15.27
93.00	46.00	13.26	15.67
94.00	46.00	12.87	16.08
95.00	46.00	12.48	16.49
96.00	46.00	12.09	16.90
97.00	46.00	11.71	17.32
98.00	46.00	11.34	17.74
99.00	46.00	10.97	18.16
100.00	46.00	10.60	18.59
101.00	46.00	10.24	19.02
102.00	46.00	9.89	19.46
103.00	46.00	9.54	19.89
104.00	46.00	9.20	20.33
105.00	46.00	8.86	20.77
106.00	46.00	8.53	21.21
107.00	46.00	8.21	21.66
108.00	46.00	7.89	22.10
109.00	46.00	7.58	22.55
110.00	46.00	7.27	23.00

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	47.00	46.29	0.01
11.00	47.00	46.15	0.01
12.00	47.00	45.99	0.01
13.00	47.00	45.81	0.02
14.00	47.00	45.63	0.02
15.00	47.00	45.43	0.03
15.50	47.00	45.33	0.04
16.00	47.00	45.22	0.04
16.50	47.00	45.11	0.05
17.00	47.00	45.00	0.05
17.50	47.00	44.88	0.06
18.00	47.00	44.76	0.06
18.50	47.00	44.64	0.07
19.00	47.00	44.52	0.08
19.50	47.00	44.39	0.09
20.00	47.00	44.26	0.10
20.50	47.00	44.13	0.11
21.00	47.00	43.99	0.12
21.50	47.00	43.86	0.13
22.00	47.00	43.72	0.14
22.50	47.00	43.57	0.15
23.00	47.00	43.43	0.16
23.50	47.00	43.28	0.18
24.00	47.00	43.13	0.19
24.50	47.00	42.98	0.21
25.00	47.00	42.82	0.22
25.50	47.00	42.66	0.24
26.00	47.00	42.50	0.26
26.50	47.00	42.34	0.28
27.00	47.00	42.18	0.30
27.50	47.00	42.01	0.32
28.00	47.00	41.84	0.34
28.50	47.00	41.67	0.37
29.00	47.00	41.50	0.39
29.50	47.00	41.32	0.41
30.00	47.00	41.14	0.44
31.00	47.00	40.78	0.50
32.00	47.00	40.42	0.56
33.00	47.00	40.04	0.62
34.00	47.00	39.66	0.70
35.00	47.00	39.27	0.77
36.00	47.00	38.88	0.85
37.00	47.00	38.48	0.94
38.00	47.00	38.07	1.03
39.00	47.00	37.66	1.13
40.00	47.00	37.24	1.24
41.00	47.00	36.82	1.35
42.00	47.00	36.39	1.47
43.00	47.00	35.96	1.59
44.00	47.00	35.53	1.72
45.00	47.00	35.09	1.86
46.00	47.00	34.65	2.00
47.00	47.00	34.20	2.15
48.00	47.00	33.76	2.31
49.00	47.00	33.30	2.47
50.00	47.00	32.85	2.64
51.00	47.00	32.40	2.82
52.00	47.00	31.94	3.00

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	47.00	31.48	3.19
54.00	47.00	31.02	3.39
55.00	47.00	30.55	3.60
56.00	47.00	30.09	3.81
57.00	47.00	29.63	4.03
58.00	47.00	29.16	4.25
59.00	47.00	28.69	4.49
60.00	47.00	28.23	4.73
61.00	47.00	27.76	4.97
62.00	47.00	27.29	5.23
63.00	47.00	26.83	5.49
64.00	47.00	26.36	5.76
65.00	47.00	25.90	6.03
66.00	47.00	25.43	6.31
67.00	47.00	24.97	6.60
68.00	47.00	24.50	6.90
69.00	47.00	24.04	7.20
70.00	47.00	23.58	7.51
71.00	47.00	23.12	7.82
72.00	47.00	22.67	8.14
73.00	47.00	22.21	8.47
74.00	47.00	21.76	8.80
75.00	47.00	21.31	9.14
76.00	47.00	20.86	9.49
77.00	47.00	20.41	9.84
78.00	47.00	19.97	10.20
79.00	47.00	19.53	10.56
80.00	47.00	19.09	10.93
81.00	47.00	18.66	11.30
82.00	47.00	18.22	11.68
83.00	47.00	17.79	12.07
84.00	47.00	17.37	12.46
85.00	47.00	16.95	12.85
86.00	47.00	16.53	13.25
87.00	47.00	16.11	13.65
88.00	47.00	15.70	14.06
89.00	47.00	15.29	14.47
90.00	47.00	14.89	14.89
91.00	47.00	14.47	15.29
92.00	47.00	14.06	15.70
93.00	47.00	13.65	16.11
94.00	47.00	13.25	16.53
95.00	47.00	12.85	16.95
96.00	47.00	12.46	17.37
97.00	47.00	12.07	17.79
98.00	47.00	11.68	18.22
99.00	47.00	11.30	18.66
100.00	47.00	10.93	19.09
101.00	47.00	10.56	19.53
102.00	47.00	10.20	19.97
103.00	47.00	9.84	20.41
104.00	47.00	9.49	20.86
105.00	47.00	9.14	21.31
106.00	47.00	8.80	21.76
107.00	47.00	8.47	22.21
108.00	47.00	8.14	22.67
109.00	47.00	7.82	23.12
110.00	47.00	7.51	23.58

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	48.00	47.28	0.01
11.00	48.00	47.13	0.01
12.00	48.00	46.96	0.01
13.00	48.00	46.79	0.02
14.00	48.00	46.60	0.03
15.00	48.00	46.40	0.03
15.50	48.00	46.29	0.04
16.00	48.00	46.18	0.04
16.50	48.00	46.07	0.05
17.00	48.00	45.96	0.05
17.50	48.00	45.84	0.06
18.00	48.00	45.72	0.07
18.50	48.00	45.59	0.07
19.00	48.00	45.47	0.08
19.50	48.00	45.34	0.09
20.00	48.00	45.21	0.10
20.50	48.00	45.07	0.11
21.00	48.00	44.93	0.12
21.50	48.00	44.79	0.13
22.00	48.00	44.65	0.14
22.50	48.00	44.50	0.16
23.00	48.00	44.35	0.17
23.50	48.00	44.20	0.18
24.00	48.00	44.05	0.20
24.50	48.00	43.89	0.22
25.00	48.00	43.74	0.23
25.50	48.00	43.58	0.25
26.00	48.00	43.41	0.27
26.50	48.00	43.25	0.29
27.00	48.00	43.08	0.31
27.50	48.00	42.91	0.33
28.00	48.00	42.74	0.36
28.50	48.00	42.56	0.38
29.00	48.00	42.39	0.41
29.50	48.00	42.21	0.43
30.00	48.00	42.03	0.46
31.00	48.00	41.66	0.52
32.00	48.00	41.29	0.58
33.00	48.00	40.91	0.65
34.00	48.00	40.52	0.72
35.00	48.00	40.12	0.80
36.00	48.00	39.72	0.89
37.00	48.00	39.31	0.98
38.00	48.00	38.90	1.08
39.00	48.00	38.48	1.18
40.00	48.00	38.06	1.29
41.00	48.00	37.63	1.40
42.00	48.00	37.19	1.52
43.00	48.00	36.76	1.65
44.00	48.00	36.31	1.79
45.00	48.00	35.87	1.93
46.00	48.00	35.42	2.07
47.00	48.00	34.97	2.23
48.00	48.00	34.51	2.39
49.00	48.00	34.05	2.56
50.00	48.00	33.59	2.74
51.00	48.00	33.13	2.92
52.00	48.00	32.66	3.11

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	48.00	32.19	3.31
54.00	48.00	31.72	3.51
55.00	48.00	31.25	3.72
56.00	48.00	30.78	3.94
57.00	48.00	30.31	4.17
58.00	48.00	29.84	4.40
59.00	48.00	29.36	4.64
60.00	48.00	28.89	4.89
61.00	48.00	28.41	5.14
62.00	48.00	27.94	5.41
63.00	48.00	27.47	5.67
64.00	48.00	26.99	5.95
65.00	48.00	26.52	6.23
66.00	48.00	26.05	6.52
67.00	48.00	25.57	6.82
68.00	48.00	25.10	7.12
69.00	48.00	24.64	7.43
70.00	48.00	24.17	7.75
71.00	48.00	23.70	8.07
72.00	48.00	23.24	8.40
73.00	48.00	22.77	8.74
74.00	48.00	22.31	9.08
75.00	48.00	21.85	9.43
76.00	48.00	21.40	9.78
77.00	48.00	20.94	10.15
78.00	48.00	20.49	10.51
79.00	48.00	20.04	10.88
80.00	48.00	19.60	11.26
81.00	48.00	19.15	11.64
82.00	48.00	18.71	12.03
83.00	48.00	18.28	12.43
84.00	48.00	17.84	12.83
85.00	48.00	17.41	13.23
86.00	48.00	16.99	13.64
87.00	48.00	16.56	14.05
88.00	48.00	16.14	14.47
89.00	48.00	15.73	14.89
90.00	48.00	15.32	15.32
91.00	48.00	14.89	15.73
92.00	48.00	14.47	16.14
93.00	48.00	14.05	16.56
94.00	48.00	13.64	16.99
95.00	48.00	13.23	17.41
96.00	48.00	12.83	17.84
97.00	48.00	12.43	18.28
98.00	48.00	12.03	18.71
99.00	48.00	11.64	19.15
100.00	48.00	11.26	19.60
101.00	48.00	10.88	20.04
102.00	48.00	10.51	20.49
103.00	48.00	10.15	20.94
104.00	48.00	9.78	21.40
105.00	48.00	9.43	21.85
106.00	48.00	9.08	22.31
107.00	48.00	8.74	22.77
108.00	48.00	8.40	23.24
109.00	48.00	8.07	23.70
110.00	48.00	7.75	24.17

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	49.00	43.26	0.01
11.00	49.00	48.11	0.01
12.00	49.00	47.94	0.01
13.00	49.00	47.76	0.02
14.00	49.00	47.57	0.03
15.00	49.00	47.36	0.03
15.50	49.00	47.26	0.04
16.00	49.00	47.15	0.04
16.50	49.00	47.03	0.05
17.00	49.00	46.91	0.06
17.50	49.00	46.79	0.06
18.00	49.00	46.67	0.07
18.50	49.00	46.55	0.08
19.00	49.00	46.42	0.09
19.50	49.00	46.28	0.09
20.00	49.00	46.15	0.10
20.50	49.00	46.01	0.11
21.00	49.00	45.87	0.13
21.50	49.00	45.73	0.14
22.00	49.00	45.58	0.15
22.50	49.00	45.43	0.16
23.00	49.00	45.28	0.18
23.50	49.00	45.13	0.19
24.00	49.00	44.97	0.21
24.50	49.00	44.81	0.23
25.00	49.00	44.65	0.24
25.50	49.00	44.49	0.26
26.00	49.00	44.32	0.28
26.50	49.00	44.15	0.30
27.00	49.00	43.98	0.32
27.50	49.00	43.81	0.35
28.00	49.00	43.64	0.37
28.50	49.00	43.46	0.40
29.00	49.00	43.28	0.42
29.50	49.00	43.10	0.45
30.00	49.00	42.91	0.48
31.00	49.00	42.54	0.54
32.00	49.00	42.16	0.60
33.00	49.00	41.77	0.68
34.00	49.00	41.38	0.75
35.00	49.00	40.97	0.83
36.00	49.00	40.56	0.92
37.00	49.00	40.15	1.02
38.00	49.00	39.73	1.12
39.00	49.00	39.30	1.22
40.00	49.00	38.87	1.34
41.00	49.00	38.44	1.46
42.00	49.00	37.99	1.58
43.00	49.00	37.55	1.71
44.00	49.00	37.10	1.85
45.00	49.00	36.65	2.00
46.00	49.00	36.19	2.15
47.00	49.00	35.73	2.31
48.00	49.00	35.27	2.48
49.00	49.00	34.80	2.65
50.00	49.00	34.33	2.84
51.00	49.00	33.86	3.02
52.00	49.00	33.39	3.22

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	49.00	32.91	3.42
54.00	49.00	32.44	3.64
55.00	49.00	31.96	3.85
56.00	49.00	31.48	4.08
57.00	49.00	31.00	4.31
58.00	49.00	30.52	4.55
59.00	49.00	30.04	4.80
60.00	49.00	29.56	5.06
61.00	49.00	29.07	5.32
62.00	49.00	28.59	5.59
63.00	49.00	28.11	5.86
64.00	49.00	27.63	6.15
65.00	49.00	27.15	6.44
66.00	49.00	26.67	6.74
67.00	49.00	26.19	7.04
68.00	49.00	25.71	7.35
69.00	49.00	25.23	7.67
70.00	49.00	24.76	8.00
71.00	49.00	24.28	8.33
72.00	49.00	23.81	8.67
73.00	49.00	23.34	9.01
74.00	49.00	22.87	9.36
75.00	49.00	22.40	9.72
76.00	49.00	21.94	10.09
77.00	49.00	21.48	10.46
78.00	49.00	21.02	10.83
79.00	49.00	20.56	11.21
80.00	49.00	20.11	11.60
81.00	49.00	19.66	11.99
82.00	49.00	19.21	12.39
83.00	49.00	18.77	12.79
84.00	49.00	18.32	13.20
85.00	49.00	17.89	13.62
86.00	49.00	17.45	14.03
87.00	49.00	17.02	14.46
88.00	49.00	16.59	14.88
89.00	49.00	16.17	15.32
90.00	49.00	15.75	15.75
91.00	49.00	15.32	16.17
92.00	49.00	14.88	16.59
93.00	49.00	14.46	17.02
94.00	49.00	14.03	17.45
95.00	49.00	13.62	17.89
96.00	49.00	13.20	18.32
97.00	49.00	12.79	18.77
98.00	49.00	12.39	19.21
99.00	49.00	11.99	19.66
100.00	49.00	11.60	20.11
101.00	49.00	11.21	20.56
102.00	49.00	10.83	21.02
103.00	49.00	10.46	21.48
104.00	49.00	10.09	21.94
105.00	49.00	9.72	22.40
106.00	49.00	9.36	22.87
107.00	49.00	9.01	23.34
108.00	49.00	8.67	23.81
109.00	49.00	8.33	24.28
110.00	49.00	8.00	24.76

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	50.00	49.25	0.01
11.00	50.00	49.09	0.01
12.00	50.00	48.92	0.01
13.00	50.00	48.74	0.02
14.00	50.00	48.54	0.03
15.00	50.00	48.33	0.04
15.50	50.00	48.22	0.04
16.00	50.00	48.11	0.05
16.50	50.00	47.99	0.05
17.00	50.00	47.87	0.06
17.50	50.00	47.75	0.06
18.00	50.00	47.63	0.07
18.50	50.00	47.50	0.08
19.00	50.00	47.37	0.09
19.50	50.00	47.23	0.10
20.00	50.00	47.09	0.11
20.50	50.00	46.95	0.12
21.00	50.00	46.81	0.13
21.50	50.00	46.66	0.14
22.00	50.00	46.52	0.16
22.50	50.00	46.36	0.17
23.00	50.00	46.21	0.19
23.50	50.00	46.05	0.20
24.00	50.00	45.89	0.22
24.50	50.00	45.73	0.23
25.00	50.00	45.57	0.25
25.50	50.00	45.40	0.27
26.00	50.00	45.23	0.29
26.50	50.00	45.06	0.31
27.00	50.00	44.89	0.34
27.50	50.00	44.71	0.36
28.00	50.00	44.53	0.39
28.50	50.00	44.35	0.41
29.00	50.00	44.17	0.44
29.50	50.00	43.99	0.47
30.00	50.00	43.80	0.50
31.00	50.00	43.42	0.56
32.00	50.00	43.03	0.63
33.00	50.00	42.64	0.70
34.00	50.00	42.23	0.78
35.00	50.00	41.83	0.87
36.00	50.00	41.41	0.96
37.00	50.00	40.99	1.06
38.00	50.00	40.56	1.16
39.00	50.00	40.13	1.27
40.00	50.00	39.69	1.39
41.00	50.00	39.25	1.51
42.00	50.00	38.80	1.64
43.00	50.00	38.35	1.78
44.00	50.00	37.89	1.92
45.00	50.00	37.43	2.07
46.00	50.00	36.96	2.23
47.00	50.00	36.50	2.40
48.00	50.00	36.03	2.57
49.00	50.00	35.55	2.75
50.00	50.00	35.08	2.94
51.00	50.00	34.60	3.13
52.00	50.00	34.12	3.33

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	50.00	33.64	3.54
54.00	50.00	33.15	3.76
55.00	50.00	32.67	3.99
56.00	50.00	32.18	4.22
57.00	50.00	31.69	4.46
58.00	50.00	31.20	4.71
59.00	50.00	30.72	4.96
60.00	50.00	30.23	5.23
61.00	50.00	29.74	5.50
62.00	50.00	29.25	5.77
63.00	50.00	28.76	6.06
64.00	50.00	28.27	6.35
65.00	50.00	27.78	6.65
66.00	50.00	27.29	6.96
67.00	50.00	26.81	7.27
68.00	50.00	26.32	7.59
69.00	50.00	25.84	7.92
70.00	50.00	25.35	8.25
71.00	50.00	24.87	8.59
72.00	50.00	24.39	8.94
73.00	50.00	23.91	9.29
74.00	50.00	23.44	9.65
75.00	50.00	22.96	10.02
76.00	50.00	22.49	10.39
77.00	50.00	22.02	10.77
78.00	50.00	21.55	11.16
79.00	50.00	21.09	11.55
80.00	50.00	20.63	11.95
81.00	50.00	20.17	12.35
82.00	50.00	19.71	12.76
83.00	50.00	19.26	13.17
84.00	50.00	18.81	13.59
85.00	50.00	18.37	14.01
86.00	50.00	17.93	14.44
87.00	50.00	17.49	14.87
88.00	50.00	17.05	15.31
89.00	50.00	16.62	15.74
90.00	50.00	16.18	16.18
91.00	50.00	15.74	16.62
92.00	50.00	15.31	17.05
93.00	50.00	14.87	17.49
94.00	50.00	14.44	17.93
95.00	50.00	14.01	18.37
96.00	50.00	13.59	18.81
97.00	50.00	13.17	19.26
98.00	50.00	12.76	19.71
99.00	50.00	12.35	20.17
100.00	50.00	11.95	20.63
101.00	50.00	11.55	21.09
102.00	50.00	11.16	21.55
103.00	50.00	10.77	22.02
104.00	50.00	10.39	22.49
105.00	50.00	10.02	22.96
106.00	50.00	9.65	23.44
107.00	50.00	9.29	23.91
108.00	50.00	8.94	24.39
109.00	50.00	8.59	24.87
110.00	50.00	8.25	25.35

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	51.00	50.23	0.01
11.00	51.00	50.07	0.01
12.00	51.00	49.90	0.02
13.00	51.00	49.71	0.02
14.00	51.00	49.51	0.03
15.00	51.00	49.30	0.04
15.50	51.00	49.19	0.04
16.00	51.00	49.07	0.05
16.50	51.00	48.95	0.05
17.00	51.00	48.83	0.06
17.50	51.00	48.71	0.07
18.00	51.00	48.58	0.08
18.50	51.00	48.45	0.08
19.00	51.00	48.31	0.09
19.50	51.00	48.18	0.10
20.00	51.00	48.04	0.11
20.50	51.00	47.89	0.12
21.00	51.00	47.75	0.14
21.50	51.00	47.60	0.15
22.00	51.00	47.45	0.16
22.50	51.00	47.30	0.18
23.00	51.00	47.14	0.19
23.50	51.00	46.98	0.21
24.00	51.00	46.82	0.23
24.50	51.00	46.65	0.24
25.00	51.00	46.49	0.26
25.50	51.00	46.32	0.28
26.00	51.00	46.14	0.31
26.50	51.00	45.97	0.33
27.00	51.00	45.79	0.35
27.50	51.00	45.61	0.38
28.00	51.00	45.43	0.40
28.50	51.00	45.25	0.43
29.00	51.00	45.06	0.46
29.50	51.00	44.88	0.49
30.00	51.00	44.68	0.52
31.00	51.00	44.30	0.58
32.00	51.00	43.90	0.65
33.00	51.00	43.50	0.73
34.00	51.00	43.09	0.81
35.00	51.00	42.68	0.90
36.00	51.00	42.26	1.00
37.00	51.00	41.83	1.10
38.00	51.00	41.39	1.21
39.00	51.00	40.95	1.32
40.00	51.00	40.51	1.44
41.00	51.00	40.06	1.57
42.00	51.00	39.60	1.70
43.00	51.00	39.14	1.84
44.00	51.00	38.68	1.99
45.00	51.00	38.21	2.15
46.00	51.00	37.74	2.31
47.00	51.00	37.27	2.48
48.00	51.00	36.79	2.66
49.00	51.00	36.31	2.85
50.00	51.00	35.82	3.04
51.00	51.00	35.34	3.24
52.00	51.00	34.85	3.45

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	51.00	34.36	3.67
54.00	51.00	33.87	3.89
55.00	51.00	33.38	4.13
56.00	51.00	32.88	4.37
57.00	51.00	32.39	4.61
58.00	51.00	31.89	4.87
59.00	51.00	31.40	5.13
60.00	51.00	30.90	5.40
61.00	51.00	30.40	5.68
62.00	51.00	29.91	5.96
63.00	51.00	29.41	6.26
64.00	51.00	28.91	6.56
65.00	51.00	28.42	6.87
66.00	51.00	27.92	7.18
67.00	51.00	27.43	7.50
68.00	51.00	26.94	7.83
69.00	51.00	26.44	8.17
70.00	51.00	25.95	8.51
71.00	51.00	25.46	8.86
72.00	51.00	24.98	9.22
73.00	51.00	24.49	9.58
74.00	51.00	24.01	9.95
75.00	51.00	23.53	10.33
76.00	51.00	23.05	10.71
77.00	51.00	22.57	11.10
78.00	51.00	22.10	11.49
79.00	51.00	21.63	11.89
80.00	51.00	21.16	12.30
81.00	51.00	20.69	12.71
82.00	51.00	20.23	13.13
83.00	51.00	19.77	13.55
84.00	51.00	19.31	13.98
85.00	51.00	18.86	14.41
86.00	51.00	18.41	14.85
87.00	51.00	17.96	15.29
88.00	51.00	17.52	15.74
89.00	51.00	17.07	16.18
90.00	51.00	16.63	16.63
91.00	51.00	16.18	17.07
92.00	51.00	15.74	17.52
93.00	51.00	15.29	17.96
94.00	51.00	14.85	18.41
95.00	51.00	14.41	18.86
96.00	51.00	13.98	19.31
97.00	51.00	13.55	19.77
98.00	51.00	13.13	20.23
99.00	51.00	12.71	20.69
100.00	51.00	12.30	21.16
101.00	51.00	11.89	21.63
102.00	51.00	11.49	22.10
103.00	51.00	11.10	22.57
104.00	51.00	10.71	23.05
105.00	51.00	10.33	23.53
106.00	51.00	9.95	24.01
107.00	51.00	9.58	24.49
108.00	51.00	9.22	24.98
109.00	51.00	8.86	25.46
110.00	51.00	8.51	25.95

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	52.00	51.22	0.01
11.00	52.00	51.06	0.01
12.00	52.00	50.88	0.02
13.00	52.00	50.69	0.02
14.00	52.00	50.49	0.03
15.00	52.00	50.27	0.04
15.50	52.00	50.15	0.04
16.00	52.00	50.04	0.05
16.50	52.00	49.91	0.06
17.00	52.00	49.79	0.06
17.50	52.00	49.66	0.07
18.00	52.00	49.53	0.08
18.50	52.00	49.40	0.09
19.00	52.00	49.26	0.10
19.50	52.00	49.12	0.11
20.00	52.00	48.98	0.12
20.50	52.00	48.84	0.13
21.00	52.00	48.69	0.14
21.50	52.00	48.54	0.16
22.00	52.00	48.38	0.17
22.50	52.00	48.23	0.18
23.00	52.00	48.07	0.20
23.50	52.00	47.90	0.22
24.00	52.00	47.74	0.24
24.50	52.00	47.57	0.25
25.00	52.00	47.40	0.27
25.50	52.00	47.23	0.30
26.00	52.00	47.06	0.32
26.50	52.00	46.88	0.34
27.00	52.00	46.70	0.37
27.50	52.00	46.52	0.39
28.00	52.00	46.33	0.42
28.50	52.00	46.14	0.45
29.00	52.00	45.96	0.48
29.50	52.00	45.77	0.51
30.00	52.00	45.57	0.54
31.00	52.00	45.18	0.61
32.00	52.00	44.78	0.68
33.00	52.00	44.37	0.76
34.00	52.00	43.96	0.85
35.00	52.00	43.53	0.94
36.00	52.00	43.10	1.04
37.00	52.00	42.67	1.14
38.00	52.00	42.23	1.25
39.00	52.00	41.78	1.37
40.00	52.00	41.33	1.49
41.00	52.00	40.87	1.63
42.00	52.00	40.41	1.77
43.00	52.00	39.94	1.91
44.00	52.00	39.47	2.07
45.00	52.00	39.00	2.23
46.00	52.00	38.52	2.40
47.00	52.00	38.04	2.57
48.00	52.00	37.55	2.76
49.00	52.00	37.07	2.95
50.00	52.00	36.57	3.15
51.00	52.00	36.08	3.36
52.00	52.00	35.59	3.57

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	52.00	35.09	3.80
54.00	52.00	34.59	4.03
55.00	52.00	34.09	4.27
56.00	52.00	33.59	4.51
57.00	52.00	33.09	4.77
58.00	52.00	32.59	5.03
59.00	52.00	32.08	5.30
60.00	52.00	31.58	5.58
61.00	52.00	31.08	5.87
62.00	52.00	30.57	6.16
63.00	52.00	30.07	6.46
64.00	52.00	29.57	6.77
65.00	52.00	29.06	7.09
66.00	52.00	28.56	7.41
67.00	52.00	28.06	7.74
68.00	52.00	27.56	8.08
69.00	52.00	27.06	8.42
70.00	52.00	26.56	8.78
71.00	52.00	26.07	9.14
72.00	52.00	25.57	9.50
73.00	52.00	25.08	9.87
74.00	52.00	24.59	10.25
75.00	52.00	24.10	10.64
76.00	52.00	23.61	11.03
77.00	52.00	23.13	11.43
78.00	52.00	22.65	11.84
79.00	52.00	22.17	12.25
80.00	52.00	21.69	12.66
81.00	52.00	21.22	13.08
82.00	52.00	20.75	13.51
83.00	52.00	20.28	13.94
84.00	52.00	19.82	14.38
85.00	52.00	19.36	14.82
86.00	52.00	18.90	15.27
87.00	52.00	18.45	15.72
88.00	52.00	17.99	16.18
89.00	52.00	17.54	16.63
90.00	52.00	17.09	17.09
91.00	52.00	16.63	17.54
92.00	52.00	16.18	17.99
93.00	52.00	15.72	18.45
94.00	52.00	15.27	18.90
95.00	52.00	14.82	19.36
96.00	52.00	14.38	19.82
97.00	52.00	13.94	20.28
98.00	52.00	13.51	20.75
99.00	52.00	13.08	21.22
100.00	52.00	12.66	21.69
101.00	52.00	12.25	22.17
102.00	52.00	11.84	22.65
103.00	52.00	11.43	23.13
104.00	52.00	11.03	23.61
105.00	52.00	10.64	24.10
106.00	52.00	10.25	24.59
107.00	52.00	9.87	25.08
108.00	52.00	9.50	25.57
109.00	52.00	9.14	26.07
110.00	52.00	8.78	26.56

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	53.00	52.20	0.01
11.00	53.00	52.04	0.01
12.00	53.00	51.86	0.02
13.00	53.00	51.66	0.02
14.00	53.00	51.46	0.03
15.00	53.00	51.23	0.04
15.50	53.00	51.12	0.05
16.00	53.00	51.00	0.05
16.50	53.00	50.88	0.06
17.00	53.00	50.75	0.07
17.50	53.00	50.62	0.07
18.00	53.00	50.49	0.08
18.50	53.00	50.35	0.09
19.00	53.00	50.21	0.10
19.50	53.00	50.07	0.11
20.00	53.00	49.93	0.12
20.50	53.00	49.78	0.14
21.00	53.00	49.63	0.15
21.50	53.00	49.47	0.16
22.00	53.00	49.32	0.18
22.50	53.00	49.16	0.19
23.00	53.00	49.00	0.21
23.50	53.00	48.83	0.23
24.00	53.00	48.66	0.25
24.50	53.00	48.49	0.27
25.00	53.00	48.32	0.29
25.50	53.00	48.15	0.31
26.00	53.00	47.97	0.33
26.50	53.00	47.79	0.36
27.00	53.00	47.60	0.38
27.50	53.00	47.42	0.41
28.00	53.00	47.23	0.44
28.50	53.00	47.04	0.46
29.00	53.00	46.85	0.50
29.50	53.00	46.66	0.53
30.00	53.00	46.46	0.56
31.00	53.00	46.06	0.63
32.00	53.00	45.65	0.71
33.00	53.00	45.24	0.79
34.00	53.00	44.82	0.88
35.00	53.00	44.39	0.97
36.00	53.00	43.95	1.08
37.00	53.00	43.51	1.18
38.00	53.00	43.06	1.30
39.00	53.00	42.61	1.42
40.00	53.00	42.15	1.55
41.00	53.00	41.69	1.69
42.00	53.00	41.22	1.83
43.00	53.00	40.74	1.98
44.00	53.00	40.27	2.14
45.00	53.00	39.79	2.31
46.00	53.00	39.30	2.48
47.00	53.00	38.81	2.67
48.00	53.00	38.32	2.86
49.00	53.00	37.83	3.05
50.00	53.00	37.33	3.26
51.00	53.00	36.83	3.48
52.00	53.00	36.33	3.70

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	53.00	35.82	3.93
54.00	53.00	35.32	4.17
55.00	53.00	34.81	4.41
56.00	53.00	34.30	4.67
57.00	53.00	33.80	4.93
58.00	53.00	33.29	5.20
59.00	53.00	32.78	5.48
60.00	53.00	32.27	5.77
61.00	53.00	31.75	6.06
62.00	53.00	31.24	6.36
63.00	53.00	30.73	6.67
64.00	53.00	30.22	6.99
65.00	53.00	29.71	7.31
66.00	53.00	29.20	7.65
67.00	53.00	28.69	7.99
68.00	53.00	28.19	8.33
69.00	53.00	27.68	8.69
70.00	53.00	27.18	9.05
71.00	53.00	26.67	9.42
72.00	53.00	26.17	9.79
73.00	53.00	25.67	10.18
74.00	53.00	25.17	10.57
75.00	53.00	24.68	10.96
76.00	53.00	24.18	11.36
77.00	53.00	23.69	11.77
78.00	53.00	23.20	12.19
79.00	53.00	22.72	12.61
80.00	53.00	22.24	13.03
81.00	53.00	21.76	13.46
82.00	53.00	21.28	13.90
83.00	53.00	20.80	14.34
84.00	53.00	20.33	14.79
85.00	53.00	19.86	15.25
86.00	53.00	19.40	15.70
87.00	53.00	18.94	16.16
88.00	53.00	18.48	16.63
89.00	53.00	18.01	17.09
90.00	53.00	17.55	17.55
91.00	53.00	17.09	18.01
92.00	53.00	16.63	18.48
93.00	53.00	16.16	18.94
94.00	53.00	15.70	19.40
95.00	53.00	15.25	19.86
96.00	53.00	14.79	20.33
97.00	53.00	14.34	20.80
98.00	53.00	13.90	21.28
99.00	53.00	13.46	21.75
100.00	53.00	13.03	22.24
101.00	53.00	12.61	22.72
102.00	53.00	12.19	23.20
103.00	53.00	11.77	23.69
104.00	53.00	11.36	24.18
105.00	53.00	10.96	24.68
106.00	53.00	10.57	25.17
107.00	53.00	10.18	25.67
108.00	53.00	9.79	26.17
109.00	53.00	9.42	26.67
110.00	53.00	9.05	27.18

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	54.00	53.19	0.01
11.00	54.00	53.02	0.01
12.00	54.00	52.84	0.02
13.00	54.00	52.64	0.02
14.00	54.00	52.43	0.03
15.00	54.00	52.20	0.04
15.50	54.00	52.08	0.05
16.00	54.00	51.96	0.05
16.50	54.00	51.84	0.06
17.00	54.00	51.71	0.07
17.50	54.00	51.58	0.08
18.00	54.00	51.44	0.09
18.50	54.00	51.30	0.10
19.00	54.00	51.16	0.11
19.50	54.00	51.02	0.12
20.00	54.00	50.87	0.13
20.50	54.00	50.72	0.14
21.00	54.00	50.57	0.15
21.50	54.00	50.41	0.17
22.00	54.00	50.25	0.18
22.50	54.00	50.09	0.20
23.00	54.00	49.93	0.22
23.50	54.00	49.76	0.24
24.00	54.00	49.59	0.26
24.50	54.00	49.41	0.28
25.00	54.00	49.24	0.30
25.50	54.00	49.06	0.32
26.00	54.00	48.88	0.34
26.50	54.00	48.70	0.37
27.00	54.00	48.51	0.40
27.50	54.00	48.32	0.42
28.00	54.00	48.13	0.45
28.50	54.00	47.94	0.48
29.00	54.00	47.74	0.52
29.50	54.00	47.55	0.55
30.00	54.00	47.35	0.58
31.00	54.00	46.94	0.66
32.00	54.00	46.53	0.74
33.00	54.00	46.11	0.82
34.00	54.00	45.68	0.91
35.00	54.00	45.25	1.01
36.00	54.00	44.80	1.12
37.00	54.00	44.36	1.23
38.00	54.00	43.90	1.35
39.00	54.00	43.44	1.48
40.00	54.00	42.98	1.61
41.00	54.00	42.50	1.75
42.00	54.00	42.03	1.90
43.00	54.00	41.55	2.06
44.00	54.00	41.06	2.22
45.00	54.00	40.58	2.39
46.00	54.00	40.08	2.57
47.00	54.00	39.59	2.76
48.00	54.00	39.09	2.96
49.00	54.00	38.59	3.16
50.00	54.00	38.09	3.38
51.00	54.00	37.58	3.60
52.00	54.00	37.07	3.83

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	54.00	36.56	4.06
54.00	54.00	36.05	4.31
55.00	54.00	35.54	4.56
56.00	54.00	35.02	4.83
57.00	54.00	34.51	5.10
58.00	54.00	33.99	5.37
59.00	54.00	33.47	5.66
60.00	54.00	32.95	5.95
61.00	54.00	32.44	6.26
62.00	54.00	31.92	6.57
63.00	54.00	31.40	6.89
64.00	54.00	30.88	7.21
65.00	54.00	30.37	7.55
66.00	54.00	29.85	7.89
67.00	54.00	29.34	8.24
68.00	54.00	28.82	8.59
69.00	54.00	28.31	8.96
70.00	54.00	27.80	9.33
71.00	54.00	27.29	9.71
72.00	54.00	26.78	10.09
73.00	54.00	26.27	10.49
74.00	54.00	25.77	10.88
75.00	54.00	25.27	11.29
76.00	54.00	24.77	11.70
77.00	54.00	24.27	12.12
78.00	54.00	23.77	12.54
79.00	54.00	23.28	12.97
80.00	54.00	22.79	13.41
81.00	54.00	22.30	13.85
82.00	54.00	21.82	14.30
83.00	54.00	21.33	14.75
84.00	54.00	20.86	15.21
85.00	54.00	20.38	15.68
86.00	54.00	19.91	16.14
87.00	54.00	19.44	16.61
88.00	54.00	18.97	17.08
89.00	54.00	18.50	17.56
90.00	54.00	18.03	18.03
91.00	54.00	17.56	18.50
92.00	54.00	17.09	18.97
93.00	54.00	16.61	19.44
94.00	54.00	16.14	19.91
95.00	54.00	15.68	20.38
96.00	54.00	15.21	20.86
97.00	54.00	14.75	21.33
98.00	54.00	14.30	21.82
99.00	54.00	13.85	22.30
100.00	54.00	13.41	22.79
101.00	54.00	12.97	23.28
102.00	54.00	12.54	23.77
103.00	54.00	12.12	24.27
104.00	54.00	11.70	24.77
105.00	54.00	11.29	25.27
106.00	54.00	10.88	25.77
107.00	54.00	10.49	26.27
108.00	54.00	10.09	26.78
109.00	54.00	9.71	27.29
110.00	54.00	9.33	27.80

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	55.00	54.17	0.01
11.00	55.00	54.00	0.01
12.00	55.00	53.82	0.02
13.00	55.00	53.62	0.03
14.00	55.00	53.40	0.03
15.00	55.00	53.17	0.04
15.50	55.00	53.05	0.05
16.00	55.00	52.93	0.06
16.50	55.00	52.80	0.06
17.00	55.00	52.67	0.07
17.50	55.00	52.53	0.08
18.00	55.00	52.40	0.09
18.50	55.00	52.26	0.10
19.00	55.00	52.11	0.11
19.50	55.00	51.97	0.12
20.00	55.00	51.82	0.13
20.50	55.00	51.66	0.15
21.00	55.00	51.51	0.16
21.50	55.00	51.35	0.18
22.00	55.00	51.19	0.19
22.50	55.00	51.02	0.21
23.00	55.00	50.85	0.23
23.50	55.00	50.68	0.25
24.00	55.00	50.51	0.27
24.50	55.00	50.34	0.29
25.00	55.00	50.16	0.31
25.50	55.00	49.98	0.33
26.00	55.00	49.79	0.36
26.50	55.00	49.61	0.38
27.00	55.00	49.42	0.41
27.50	55.00	49.23	0.44
28.00	55.00	49.03	0.47
28.50	55.00	48.84	0.50
29.00	55.00	48.64	0.54
29.50	55.00	48.44	0.57
30.00	55.00	48.24	0.61
31.00	55.00	47.83	0.68
32.00	55.00	47.41	0.76
33.00	55.00	46.98	0.85
34.00	55.00	46.55	0.95
35.00	55.00	46.10	1.05
36.00	55.00	45.66	1.16
37.00	55.00	45.20	1.28
38.00	55.00	44.74	1.40
39.00	55.00	44.27	1.53
40.00	55.00	43.80	1.67
41.00	55.00	43.32	1.82
42.00	55.00	42.84	1.97
43.00	55.00	42.36	2.13
44.00	55.00	41.87	2.30
45.00	55.00	41.37	2.48
46.00	55.00	40.87	2.67
47.00	55.00	40.37	2.86
48.00	55.00	39.87	3.06
49.00	55.00	39.36	3.27
50.00	55.00	38.85	3.49
51.00	55.00	38.33	3.72
52.00	55.00	37.82	3.96

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	55.00	37.30	4.20
54.00	55.00	36.78	4.46
55.00	55.00	36.26	4.72
56.00	55.00	35.74	4.99
57.00	55.00	35.22	5.27
58.00	55.00	34.70	5.55
59.00	55.00	34.17	5.85
60.00	55.00	33.65	6.15
61.00	55.00	33.13	6.46
62.00	55.00	32.60	6.78
63.00	55.00	32.08	7.11
64.00	55.00	31.55	7.44
65.00	55.00	31.03	7.79
66.00	55.00	30.51	8.14
67.00	55.00	29.99	8.50
68.00	55.00	29.47	8.86
69.00	55.00	28.95	9.24
70.00	55.00	28.43	9.62
71.00	55.00	27.91	10.00
72.00	55.00	27.40	10.40
73.00	55.00	26.88	10.80
74.00	55.00	26.37	11.21
75.00	55.00	25.86	11.63
76.00	55.00	25.35	12.05
77.00	55.00	24.85	12.48
78.00	55.00	24.35	12.91
79.00	55.00	23.85	13.35
80.00	55.00	23.35	13.80
81.00	55.00	22.86	14.25
82.00	55.00	22.36	14.71
83.00	55.00	21.88	15.17
84.00	55.00	21.39	15.64
85.00	55.00	20.91	16.12
86.00	55.00	20.43	16.59
87.00	55.00	19.95	17.07
88.00	55.00	19.47	17.55
89.00	55.00	18.99	18.03
90.00	55.00	18.51	18.51
91.00	55.00	18.03	18.99
92.00	55.00	17.55	19.47
93.00	55.00	17.07	19.95
94.00	55.00	16.59	20.43
95.00	55.00	16.12	20.91
96.00	55.00	15.64	21.39
97.00	55.00	15.17	21.88
98.00	55.00	14.71	22.36
99.00	55.00	14.25	22.86
100.00	55.00	13.80	23.35
101.00	55.00	13.35	23.85
102.00	55.00	12.91	24.35
103.00	55.00	12.48	24.85
104.00	55.00	12.05	25.35
105.00	55.00	11.63	25.86
106.00	55.00	11.21	26.37
107.00	55.00	10.80	26.88
108.00	55.00	10.40	27.40
109.00	55.00	10.00	27.91
110.00	55.00	9.62	28.43

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	56.00	55.16	0.01
11.00	56.00	54.98	0.01
12.00	56.00	54.80	0.02
13.00	56.00	54.59	0.03
14.00	56.00	54.37	0.04
15.00	56.00	54.14	0.05
15.50	56.00	54.02	0.05
16.00	56.00	53.89	0.06
16.50	56.00	53.76	0.07
17.00	56.00	53.63	0.07
17.50	56.00	53.49	0.08
18.00	56.00	53.35	0.09
18.50	56.00	53.21	0.10
19.00	56.00	53.06	0.11
19.50	56.00	52.91	0.13
20.00	56.00	52.76	0.14
20.50	56.00	52.61	0.15
21.00	56.00	52.45	0.17
21.50	56.00	52.29	0.18
22.00	56.00	52.12	0.20
22.50	56.00	51.96	0.22
23.00	56.00	51.78	0.24
23.50	56.00	51.61	0.26
24.00	56.00	51.44	0.28
24.50	56.00	51.26	0.30
25.00	56.00	51.08	0.32
25.50	56.00	50.89	0.35
26.00	56.00	50.71	0.37
26.50	56.00	50.52	0.40
27.00	56.00	50.33	0.43
27.50	56.00	50.13	0.46
28.00	56.00	49.94	0.49
28.50	56.00	49.74	0.52
29.00	56.00	49.54	0.56
29.50	56.00	49.33	0.59
30.00	56.00	49.13	0.63
31.00	56.00	48.71	0.71
32.00	56.00	48.29	0.79
33.00	56.00	47.85	0.89
34.00	56.00	47.41	0.99
35.00	56.00	46.96	1.09
36.00	56.00	46.51	1.20
37.00	56.00	46.05	1.32
38.00	56.00	45.58	1.45
39.00	56.00	45.11	1.59
40.00	56.00	44.63	1.73
41.00	56.00	44.15	1.88
42.00	56.00	43.66	2.04
43.00	56.00	43.17	2.21
44.00	56.00	42.67	2.39
45.00	56.00	42.17	2.57
46.00	56.00	41.66	2.76
47.00	56.00	41.15	2.96
48.00	56.00	40.64	3.17
49.00	56.00	40.13	3.39
50.00	56.00	39.61	3.62
51.00	56.00	39.09	3.85
52.00	56.00	38.57	4.09

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	56.00	38.05	4.35
54.00	56.00	37.52	4.61
55.00	56.00	37.00	4.88
56.00	56.00	36.47	5.15
57.00	56.00	35.94	5.44
58.00	56.00	35.41	5.74
59.00	56.00	34.88	6.04
60.00	56.00	34.35	6.35
61.00	56.00	33.82	6.67
62.00	56.00	33.29	7.00
63.00	56.00	32.76	7.34
64.00	56.00	32.23	7.68
65.00	56.00	31.70	8.03
66.00	56.00	31.17	8.39
67.00	56.00	30.64	8.76
68.00	56.00	30.11	9.14
69.00	56.00	29.59	9.52
70.00	56.00	29.06	9.91
71.00	56.00	28.54	10.31
72.00	56.00	28.02	10.71
73.00	56.00	27.50	11.13
74.00	56.00	26.98	11.55
75.00	56.00	26.47	11.97
76.00	56.00	25.95	12.40
77.00	56.00	25.44	12.84
78.00	56.00	24.93	13.29
79.00	56.00	24.43	13.74
80.00	56.00	23.92	14.20
81.00	56.00	23.42	14.66
82.00	56.00	22.92	15.13
83.00	56.00	22.43	15.60
84.00	56.00	21.94	16.08
85.00	56.00	21.45	16.57
86.00	56.00	20.96	17.05
87.00	56.00	20.47	17.54
88.00	56.00	19.98	18.03
89.00	56.00	19.50	18.52
90.00	56.00	19.01	19.01
91.00	56.00	18.52	19.50
92.00	56.00	18.03	19.98
93.00	56.00	17.54	20.47
94.00	56.00	17.05	20.96
95.00	56.00	16.57	21.45
96.00	56.00	16.08	21.94
97.00	56.00	15.60	22.43
98.00	56.00	15.13	22.92
99.00	56.00	14.66	23.42
100.00	56.00	14.20	23.92
101.00	56.00	13.74	24.43
102.00	56.00	13.29	24.93
103.00	56.00	12.84	25.44
104.00	56.00	12.40	25.95
105.00	56.00	11.97	26.47
106.00	56.00	11.55	26.98
107.00	56.00	11.13	27.50
108.00	56.00	10.71	28.02
109.00	56.00	10.31	28.54
110.00	56.00	9.91	29.06

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	57.00	56.14	0.01
11.00	57.00	55.97	0.01
12.00	57.00	55.77	0.02
13.00	57.00	55.57	0.03
14.00	57.00	55.34	0.04
15.00	57.00	55.11	0.05
15.50	57.00	54.98	0.05
16.00	57.00	54.85	0.06
16.50	57.00	54.72	0.07
17.00	57.00	54.59	0.08
17.50	57.00	54.45	0.09
18.00	57.00	54.31	0.10
18.50	57.00	54.16	0.11
19.00	57.00	54.01	0.12
19.50	57.00	53.86	0.13
20.00	57.00	53.71	0.15
20.50	57.00	53.55	0.16
21.00	57.00	53.39	0.17
21.50	57.00	53.22	0.19
22.00	57.00	53.06	0.21
22.50	57.00	52.89	0.23
23.00	57.00	52.72	0.25
23.50	57.00	52.54	0.27
24.00	57.00	52.36	0.29
24.50	57.00	52.18	0.31
25.00	57.00	52.00	0.34
25.50	57.00	51.81	0.36
26.00	57.00	51.62	0.39
26.50	57.00	51.43	0.42
27.00	57.00	51.23	0.45
27.50	57.00	51.04	0.48
28.00	57.00	50.84	0.51
28.50	57.00	50.64	0.54
29.00	57.00	50.43	0.58
29.50	57.00	50.23	0.62
30.00	57.00	50.02	0.66
31.00	57.00	49.60	0.74
32.00	57.00	49.16	0.83
33.00	57.00	48.73	0.92
34.00	57.00	48.28	1.02
35.00	57.00	47.82	1.13
36.00	57.00	47.36	1.25
37.00	57.00	46.90	1.37
38.00	57.00	46.42	1.51
39.00	57.00	45.94	1.65
40.00	57.00	45.46	1.80
41.00	57.00	44.97	1.95
42.00	57.00	44.48	2.12
43.00	57.00	43.98	2.29
44.00	57.00	43.47	2.47
45.00	57.00	42.97	2.66
46.00	57.00	42.46	2.86
47.00	57.00	41.94	3.07
48.00	57.00	41.42	3.28
49.00	57.00	40.90	3.51
50.00	57.00	40.38	3.74
51.00	57.00	39.85	3.98
52.00	57.00	39.33	4.23

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	57.00	38.80	4.49
54.00	57.00	38.27	4.76
55.00	57.00	37.73	5.04
56.00	57.00	37.20	5.33
57.00	57.00	36.67	5.62
58.00	57.00	36.13	5.92
59.00	57.00	35.59	6.24
60.00	57.00	35.06	6.56
61.00	57.00	34.52	6.89
62.00	57.00	33.98	7.22
63.00	57.00	33.45	7.57
64.00	57.00	32.91	7.92
65.00	57.00	32.38	8.29
66.00	57.00	31.84	8.66
67.00	57.00	31.31	9.03
68.00	57.00	30.77	9.42
69.00	57.00	30.24	9.81
70.00	57.00	29.71	10.21
71.00	57.00	29.18	10.62
72.00	57.00	28.65	11.04
73.00	57.00	28.13	11.46
74.00	57.00	27.60	11.89
75.00	57.00	27.08	12.33
76.00	57.00	26.56	12.77
77.00	57.00	26.04	13.22
78.00	57.00	25.53	13.68
79.00	57.00	25.01	14.14
80.00	57.00	24.50	14.61
81.00	57.00	24.00	15.08
82.00	57.00	23.49	15.56
83.00	57.00	22.99	16.04
84.00	57.00	22.49	16.53
85.00	57.00	22.00	17.03
86.00	57.00	21.50	17.53
87.00	57.00	21.01	18.02
88.00	57.00	20.51	18.52
89.00	57.00	20.01	19.02
90.00	57.00	19.51	19.51
91.00	57.00	19.02	20.01
92.00	57.00	18.52	20.51
93.00	57.00	18.02	21.01
94.00	57.00	17.53	21.50
95.00	57.00	17.03	22.00
96.00	57.00	16.53	22.49
97.00	57.00	16.04	22.99
98.00	57.00	15.56	23.49
99.00	57.00	15.08	24.00
100.00	57.00	14.61	24.50
101.00	57.00	14.14	25.01
102.00	57.00	13.68	25.53
103.00	57.00	13.22	26.04
104.00	57.00	12.77	26.56
105.00	57.00	12.33	27.08
106.00	57.00	11.89	27.60
107.00	57.00	11.46	28.13
108.00	57.00	11.04	28.65
109.00	57.00	10.62	29.18
110.00	57.00	10.21	29.71

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	58.00	57.13	0.01
11.00	58.00	56.95	0.01
12.00	58.00	56.75	0.02
13.00	58.00	56.54	0.03
14.00	58.00	56.32	0.04
15.00	58.00	56.07	0.05
15.50	58.00	55.95	0.06
16.00	58.00	55.82	0.06
16.50	58.00	55.68	0.07
17.00	58.00	55.55	0.08
17.50	58.00	55.41	0.09
18.00	58.00	55.26	0.10
18.50	58.00	55.12	0.11
19.00	58.00	54.96	0.12
19.50	58.00	54.81	0.14
20.00	58.00	54.65	0.15
20.50	58.00	54.49	0.17
21.00	58.00	54.33	0.18
21.50	58.00	54.16	0.20
22.00	58.00	53.99	0.22
22.50	58.00	53.82	0.24
23.00	58.00	53.65	0.26
23.50	58.00	53.47	0.28
24.00	58.00	53.29	0.30
24.50	58.00	53.10	0.32
25.00	58.00	52.92	0.35
25.50	58.00	52.73	0.38
26.00	58.00	52.53	0.40
26.50	58.00	52.34	0.43
27.00	58.00	52.14	0.46
27.50	58.00	51.94	0.50
28.00	58.00	51.74	0.53
28.50	58.00	51.54	0.57
29.00	58.00	51.33	0.60
29.50	58.00	51.12	0.64
30.00	58.00	50.91	0.68
31.00	58.00	50.48	0.77
32.00	58.00	50.04	0.86
33.00	58.00	49.60	0.96
34.00	58.00	49.15	1.06
35.00	58.00	48.69	1.18
36.00	58.00	48.22	1.30
37.00	58.00	47.75	1.43
38.00	58.00	47.27	1.56
39.00	58.00	46.78	1.71
40.00	58.00	46.29	1.86
41.00	58.00	45.80	2.02
42.00	58.00	45.30	2.19
43.00	58.00	44.79	2.37
44.00	58.00	44.28	2.56
45.00	58.00	43.77	2.76
46.00	58.00	43.25	2.96
47.00	58.00	42.73	3.18
48.00	58.00	42.21	3.40
49.00	58.00	41.68	3.63
50.00	58.00	41.15	3.87
51.00	58.00	40.62	4.12
52.00	58.00	40.09	4.38

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	58.00	39.55	4.65
54.00	58.00	39.02	4.92
55.00	58.00	38.48	5.21
56.00	58.00	37.94	5.50
57.00	58.00	37.40	5.81
58.00	58.00	36.86	6.12
59.00	58.00	36.31	6.44
60.00	58.00	35.77	6.77
61.00	58.00	35.23	7.11
62.00	58.00	34.68	7.46
63.00	58.00	34.14	7.81
64.00	58.00	33.60	8.17
65.00	58.00	33.06	8.55
66.00	58.00	32.52	8.93
67.00	58.00	31.98	9.31
68.00	58.00	31.44	9.71
69.00	58.00	30.90	10.11
70.00	58.00	30.36	10.53
71.00	58.00	29.83	10.94
72.00	58.00	29.29	11.37
73.00	58.00	28.76	11.80
74.00	58.00	28.23	12.24
75.00	58.00	27.70	12.69
76.00	58.00	27.18	13.15
77.00	58.00	26.65	13.61
78.00	58.00	26.13	14.07
79.00	58.00	25.61	14.55
80.00	58.00	25.10	15.03
81.00	58.00	24.58	15.51
82.00	58.00	24.07	16.00
83.00	58.00	23.57	16.50
84.00	58.00	23.06	17.00
85.00	58.00	22.56	17.50
86.00	58.00	22.05	18.01
87.00	58.00	21.55	18.51
88.00	58.00	21.04	19.02
89.00	58.00	20.54	19.52
90.00	58.00	20.03	20.03
91.00	58.00	19.52	20.54
92.00	58.00	19.02	21.04
93.00	58.00	18.51	21.55
94.00	58.00	18.01	22.05
95.00	58.00	17.50	22.56
96.00	58.00	17.00	23.06
97.00	58.00	16.50	23.57
98.00	58.00	16.00	24.07
99.00	58.00	15.51	24.58
100.00	58.00	15.03	25.10
101.00	58.00	14.55	25.61
102.00	58.00	14.07	26.13
103.00	58.00	13.61	26.65
104.00	58.00	13.15	27.18
105.00	58.00	12.69	27.70
106.00	58.00	12.24	28.23
107.00	58.00	11.80	28.76
108.00	58.00	11.37	29.29
109.00	58.00	10.94	29.83
110.00	58.00	10.53	30.36

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	59.00	58.11	0.01
11.00	59.00	57.93	0.02
12.00	59.00	57.73	0.02
13.00	59.00	57.52	0.03
14.00	59.00	57.29	0.04
15.00	59.00	57.04	0.05
15.50	59.00	56.91	0.06
16.00	59.00	56.78	0.07
16.50	59.00	56.65	0.08
17.00	59.00	56.51	0.08
17.50	59.00	56.36	0.09
18.00	59.00	56.22	0.11
18.50	59.00	56.07	0.12
19.00	59.00	55.92	0.13
19.50	59.00	55.76	0.14
20.00	59.00	55.60	0.16
20.50	59.00	55.44	0.17
21.00	59.00	55.27	0.19
21.50	59.00	55.10	0.21
22.00	59.00	54.93	0.23
22.50	59.00	54.75	0.25
23.00	59.00	54.58	0.27
23.50	59.00	54.40	0.29
24.00	59.00	54.21	0.31
24.50	59.00	54.03	0.34
25.00	59.00	53.84	0.36
25.50	59.00	53.64	0.39
26.00	59.00	53.45	0.42
26.50	59.00	53.25	0.45
27.00	59.00	53.05	0.48
27.50	59.00	52.85	0.52
28.00	59.00	52.65	0.55
28.50	59.00	52.44	0.59
29.00	59.00	52.23	0.63
29.50	59.00	52.02	0.67
30.00	59.00	51.80	0.71
31.00	59.00	51.37	0.80
32.00	59.00	50.93	0.89
33.00	59.00	50.48	0.99
34.00	59.00	50.02	1.10
35.00	59.00	49.55	1.22
36.00	59.00	49.08	1.35
37.00	59.00	48.60	1.48
38.00	59.00	48.12	1.62
39.00	59.00	47.62	1.77
40.00	59.00	47.13	1.93
41.00	59.00	46.63	2.10
42.00	59.00	46.12	2.27
43.00	59.00	45.61	2.46
44.00	59.00	45.09	2.65
45.00	59.00	44.57	2.86
46.00	59.00	44.05	3.07
47.00	59.00	43.53	3.29
48.00	59.00	43.00	3.52
49.00	59.00	42.46	3.76
50.00	59.00	41.93	4.00
51.00	59.00	41.39	4.26
52.00	59.00	40.85	4.53

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	59.00	40.31	4.80
54.00	59.00	39.77	5.09
55.00	59.00	39.22	5.38
56.00	59.00	38.68	5.69
57.00	59.00	38.13	6.00
58.00	59.00	37.59	6.32
59.00	59.00	37.04	6.65
60.00	59.00	36.49	6.99
61.00	59.00	35.94	7.34
62.00	59.00	35.39	7.69
63.00	59.00	34.84	8.06
64.00	59.00	34.30	8.43
65.00	59.00	33.75	8.81
66.00	59.00	33.20	9.21
67.00	59.00	32.66	9.60
68.00	59.00	32.11	10.01
69.00	59.00	31.57	10.42
70.00	59.00	31.03	10.85
71.00	59.00	30.48	11.28
72.00	59.00	29.94	11.71
73.00	59.00	29.41	12.16
74.00	59.00	28.87	12.61
75.00	59.00	28.34	13.07
76.00	59.00	27.81	13.53
77.00	59.00	27.28	14.00
78.00	59.00	26.75	14.48
79.00	59.00	26.22	14.97
80.00	59.00	25.70	15.46
81.00	59.00	25.18	15.95
82.00	59.00	24.67	16.46
83.00	59.00	24.15	16.96
84.00	59.00	23.64	17.47
85.00	59.00	23.13	17.99
86.00	59.00	22.62	18.50
87.00	59.00	22.10	19.01
88.00	59.00	21.59	19.53
89.00	59.00	21.07	20.04
90.00	59.00	20.56	20.56
91.00	59.00	20.04	21.07
92.00	59.00	19.53	21.59
93.00	59.00	19.01	22.10
94.00	59.00	18.50	22.62
95.00	59.00	17.99	23.13
96.00	59.00	17.47	23.64
97.00	59.00	16.96	24.15
98.00	59.00	16.46	24.67
99.00	59.00	15.95	25.18
100.00	59.00	15.46	25.70
101.00	59.00	14.97	26.22
102.00	59.00	14.48	26.75
103.00	59.00	14.00	27.28
104.00	59.00	13.53	27.81
105.00	59.00	13.07	28.34
106.00	59.00	12.61	28.87
107.00	59.00	12.16	29.41
108.00	59.00	11.71	29.94
109.00	59.00	11.28	30.48
110.00	59.00	10.85	31.03

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	60.00	59.10	0.01
11.00	60.00	58.91	0.02
12.00	60.00	58.71	0.02
13.00	60.00	58.49	0.03
14.00	60.00	58.26	0.04
15.00	60.00	58.01	0.05
15.50	60.00	57.88	0.06
16.00	60.00	57.75	0.07
16.50	60.00	57.61	0.08
17.00	60.00	57.47	0.09
17.50	60.00	57.32	0.10
18.00	60.00	57.17	0.11
18.50	60.00	57.02	0.12
19.00	60.00	56.87	0.14
19.50	60.00	56.71	0.15
20.00	60.00	56.55	0.16
20.50	60.00	56.38	0.18
21.00	60.00	56.21	0.20
21.50	60.00	56.04	0.22
22.00	60.00	55.87	0.24
22.50	60.00	55.69	0.26
23.00	60.00	55.51	0.28
23.50	60.00	55.33	0.30
24.00	60.00	55.14	0.33
24.50	60.00	54.95	0.35
25.00	60.00	54.76	0.38
25.50	60.00	54.56	0.41
26.00	60.00	54.37	0.44
26.50	60.00	54.17	0.47
27.00	60.00	53.96	0.50
27.50	60.00	53.76	0.54
28.00	60.00	53.55	0.57
28.50	60.00	53.34	0.61
29.00	60.00	53.13	0.65
29.50	60.00	52.91	0.69
30.00	60.00	52.70	0.74
31.00	60.00	52.26	0.83
32.00	60.00	51.81	0.93
33.00	60.00	51.35	1.03
34.00	60.00	50.89	1.15
35.00	60.00	50.42	1.27
36.00	60.00	49.94	1.40
37.00	60.00	49.46	1.54
38.00	60.00	48.96	1.68
39.00	60.00	48.47	1.84
40.00	60.00	47.97	2.00
41.00	60.00	47.46	2.18
42.00	60.00	46.95	2.36
43.00	60.00	46.43	2.55
44.00	60.00	45.91	2.75
45.00	60.00	45.38	2.96
46.00	60.00	44.86	3.18
47.00	60.00	44.32	3.40
48.00	60.00	43.79	3.64
49.00	60.00	43.25	3.89
50.00	60.00	42.71	4.14
51.00	60.00	42.17	4.41
52.00	60.00	41.62	4.68

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	60.00	41.08	4.97
54.00	60.00	40.53	5.26
55.00	60.00	39.98	5.56
56.00	60.00	39.43	5.88
57.00	60.00	38.88	6.20
58.00	60.00	38.32	6.53
59.00	60.00	37.77	6.87
60.00	60.00	37.22	7.22
61.00	60.00	36.66	7.57
62.00	60.00	36.11	7.94
63.00	60.00	35.55	8.32
64.00	60.00	35.00	8.70
65.00	60.00	34.45	9.09
66.00	60.00	33.90	9.49
67.00	60.00	33.35	9.90
68.00	60.00	32.79	10.32
69.00	60.00	32.25	10.74
70.00	60.00	31.70	11.18
71.00	60.00	31.15	11.62
72.00	60.00	30.61	12.07
73.00	60.00	30.06	12.52
74.00	60.00	29.52	12.98
75.00	60.00	28.98	13.45
76.00	60.00	28.45	13.93
77.00	60.00	27.91	14.41
78.00	60.00	27.38	14.90
79.00	60.00	26.85	15.40
80.00	60.00	26.32	15.90
81.00	60.00	25.80	16.41
82.00	60.00	25.27	16.92
83.00	60.00	24.75	17.44
84.00	60.00	24.23	17.96
85.00	60.00	23.71	18.48
86.00	60.00	23.19	19.00
87.00	60.00	22.67	19.53
88.00	60.00	22.14	20.05
89.00	60.00	21.62	20.57
90.00	60.00	21.10	21.10
91.00	60.00	20.57	21.62
92.00	60.00	20.05	22.14
93.00	60.00	19.53	22.67
94.00	60.00	19.00	23.19
95.00	60.00	18.48	23.71
96.00	60.00	17.96	24.23
97.00	60.00	17.44	24.75
98.00	60.00	16.92	25.27
99.00	60.00	16.41	25.80
100.00	60.00	15.90	26.32
101.00	60.00	15.40	26.85
102.00	60.00	14.90	27.38
103.00	60.00	14.41	27.91
104.00	60.00	13.93	28.45
105.00	60.00	13.45	28.98
106.00	60.00	12.98	29.52
107.00	60.00	12.52	30.06
108.00	60.00	12.07	30.61
109.00	60.00	11.62	31.15
110.00	60.00	11.18	31.70

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	61.00	60.08	0.01
11.00	61.00	59.90	0.02
12.00	61.00	59.69	0.02
13.00	61.00	59.47	0.03
14.00	61.00	59.23	0.04
15.00	61.00	58.98	0.06
15.50	61.00	58.85	0.06
16.00	61.00	58.71	0.07
16.50	61.00	58.57	0.08
17.00	61.00	58.43	0.09
17.50	61.00	58.28	0.10
18.00	61.00	58.13	0.11
18.50	61.00	57.98	0.13
19.00	61.00	57.82	0.14
19.50	61.00	57.66	0.16
20.00	61.00	57.49	0.17
20.50	61.00	57.33	0.19
21.00	61.00	57.15	0.21
21.50	61.00	56.98	0.23
22.00	61.00	56.80	0.25
22.50	61.00	56.62	0.27
23.00	61.00	56.44	0.29
23.50	61.00	56.25	0.31
24.00	61.00	56.07	0.34
24.50	61.00	55.87	0.37
25.00	61.00	55.68	0.39
25.50	61.00	55.48	0.42
26.00	61.00	55.28	0.46
26.50	61.00	55.08	0.49
27.00	61.00	54.87	0.52
27.50	61.00	54.67	0.56
28.00	61.00	54.46	0.60
28.50	61.00	54.24	0.64
29.00	61.00	54.03	0.68
29.50	61.00	53.81	0.72
30.00	61.00	53.59	0.77
31.00	61.00	53.15	0.86
32.00	61.00	52.69	0.96
33.00	61.00	52.23	1.07
34.00	61.00	51.76	1.19
35.00	61.00	51.29	1.32
36.00	61.00	50.80	1.45
37.00	61.00	50.31	1.59
38.00	61.00	49.82	1.75
39.00	61.00	49.31	1.91
40.00	61.00	48.81	2.08
41.00	61.00	48.29	2.26
42.00	61.00	47.78	2.44
43.00	61.00	47.25	2.64
44.00	61.00	46.73	2.85
45.00	61.00	46.20	3.06
46.00	61.00	45.66	3.29
47.00	61.00	45.13	3.52
48.00	61.00	44.59	3.77
49.00	61.00	44.04	4.02
50.00	61.00	43.50	4.29
51.00	61.00	42.95	4.56
52.00	61.00	42.40	4.84

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	61.00	41.85	5.14
54.00	61.00	41.29	5.44
55.00	61.00	40.74	5.75
56.00	61.00	40.18	6.07
57.00	61.00	39.62	6.40
58.00	61.00	39.07	6.74
59.00	61.00	38.51	7.09
60.00	61.00	37.95	7.45
61.00	61.00	37.39	7.82
62.00	61.00	36.83	8.19
63.00	61.00	36.27	8.58
64.00	61.00	35.71	8.97
65.00	61.00	35.16	9.38
66.00	61.00	34.60	9.79
67.00	61.00	34.04	10.21
68.00	61.00	33.49	10.64
69.00	61.00	32.93	11.07
70.00	61.00	32.38	11.52
71.00	61.00	31.83	11.97
72.00	61.00	31.28	12.43
73.00	61.00	30.73	12.90
74.00	61.00	30.18	13.37
75.00	61.00	29.64	13.85
76.00	61.00	29.10	14.34
77.00	61.00	28.56	14.83
78.00	61.00	28.02	15.34
79.00	61.00	27.48	15.84
80.00	61.00	26.95	16.36
81.00	61.00	26.42	16.88
82.00	61.00	25.89	17.40
83.00	61.00	25.37	17.93
84.00	61.00	24.84	18.46
85.00	61.00	24.31	18.99
86.00	61.00	23.78	19.52
87.00	61.00	23.24	20.05
88.00	61.00	22.71	20.58
89.00	61.00	22.18	21.12
90.00	61.00	21.65	21.65
91.00	61.00	21.12	22.18
92.00	61.00	20.58	22.71
93.00	61.00	20.05	23.24
94.00	61.00	19.52	23.78
95.00	61.00	18.99	24.31
96.00	61.00	18.46	24.84
97.00	61.00	17.93	25.37
98.00	61.00	17.40	25.89
99.00	61.00	16.88	26.42
100.00	61.00	16.36	26.95
101.00	61.00	15.84	27.48
102.00	61.00	15.34	28.02
103.00	61.00	14.83	28.56
104.00	61.00	14.34	29.10
105.00	61.00	13.85	29.64
106.00	61.00	13.37	30.18
107.00	61.00	12.90	30.73
108.00	61.00	12.43	31.28
109.00	61.00	11.97	31.83
110.00	61.00	11.52	32.38

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	62.00	61.07	0.01
11.00	62.00	60.88	0.02
12.00	62.00	60.67	0.02
13.00	62.00	60.44	0.03
14.00	62.00	60.20	0.05
15.00	62.00	59.95	0.06
15.50	62.00	59.81	0.07
16.00	62.00	59.67	0.08
16.50	62.00	59.53	0.09
17.00	62.00	59.39	0.10
17.50	62.00	59.24	0.11
18.00	62.00	59.09	0.12
18.50	62.00	58.93	0.13
19.00	62.00	58.77	0.15
19.50	62.00	58.61	0.16
20.00	62.00	58.44	0.18
20.50	62.00	58.27	0.20
21.00	62.00	58.10	0.21
21.50	62.00	57.92	0.23
22.00	62.00	57.74	0.26
22.50	62.00	57.56	0.28
23.00	62.00	57.37	0.30
23.50	62.00	57.18	0.33
24.00	62.00	56.99	0.35
24.50	62.00	56.80	0.38
25.00	62.00	56.60	0.41
25.50	62.00	56.40	0.44
26.00	62.00	56.20	0.47
26.50	62.00	55.99	0.51
27.00	62.00	55.79	0.54
27.50	62.00	55.58	0.58
28.00	62.00	55.36	0.62
28.50	62.00	55.15	0.66
29.00	62.00	54.93	0.70
29.50	62.00	54.71	0.75
30.00	62.00	54.49	0.80
31.00	62.00	54.04	0.89
32.00	62.00	53.58	1.00
33.00	62.00	53.11	1.11
34.00	62.00	52.64	1.24
35.00	62.00	52.16	1.37
36.00	62.00	51.67	1.51
37.00	62.00	51.17	1.66
38.00	62.00	50.67	1.81
39.00	62.00	50.16	1.98
40.00	62.00	49.65	2.15
41.00	62.00	49.13	2.34
42.00	62.00	48.61	2.53
43.00	62.00	48.08	2.74
44.00	62.00	47.55	2.95
45.00	62.00	47.01	3.17
46.00	62.00	46.47	3.41
47.00	62.00	45.93	3.65
48.00	62.00	45.39	3.90
49.00	62.00	44.84	4.16
50.00	62.00	44.29	4.43
51.00	62.00	43.73	4.72
52.00	62.00	43.18	5.01

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	62.00	42.62	5.31
54.00	62.00	42.06	5.62
55.00	62.00	41.50	5.94
56.00	62.00	40.94	6.27
57.00	62.00	40.38	6.61
58.00	62.00	39.82	6.96
59.00	62.00	39.25	7.32
60.00	62.00	38.69	7.69
61.00	62.00	38.13	8.07
62.00	62.00	37.56	8.46
63.00	62.00	37.00	8.85
64.00	62.00	36.44	9.26
65.00	62.00	35.87	9.67
66.00	62.00	35.31	10.09
67.00	62.00	34.75	10.53
68.00	62.00	34.19	10.96
69.00	62.00	33.63	11.41
70.00	62.00	33.07	11.87
71.00	62.00	32.52	12.33
72.00	62.00	31.96	12.80
73.00	62.00	31.41	13.28
74.00	62.00	30.86	13.77
75.00	62.00	30.31	14.26
76.00	62.00	29.76	14.76
77.00	62.00	29.22	15.27
78.00	62.00	28.67	15.78
79.00	62.00	28.13	16.30
80.00	62.00	27.60	16.83
81.00	62.00	27.06	17.36
82.00	62.00	26.53	17.90
83.00	62.00	25.99	18.43
84.00	62.00	25.45	18.97
85.00	62.00	24.91	19.51
86.00	62.00	24.37	20.05
87.00	62.00	23.83	20.59
88.00	62.00	23.29	21.13
89.00	62.00	22.75	21.67
90.00	62.00	22.21	22.21
91.00	62.00	21.67	22.75
92.00	62.00	21.13	23.29
93.00	62.00	20.59	23.83
94.00	62.00	20.05	24.37
95.00	62.00	19.51	24.91
96.00	62.00	18.97	25.45
97.00	62.00	18.43	25.99
98.00	62.00	17.90	26.53
99.00	62.00	17.36	27.06
100.00	62.00	16.83	27.60
101.00	62.00	16.30	28.13
102.00	62.00	15.78	28.67
103.00	62.00	15.27	29.22
104.00	62.00	14.76	29.76
105.00	62.00	14.26	30.31
106.00	62.00	13.77	30.86
107.00	62.00	13.28	31.41
108.00	62.00	12.80	31.96
109.00	62.00	12.33	32.52
110.00	62.00	11.87	33.07

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	63.00	62.06	0.01
11.00	63.00	61.86	0.02
12.00	63.00	61.65	0.03
13.00	63.00	61.42	0.04
14.00	63.00	61.18	0.05
15.00	63.00	60.92	0.06
15.50	63.00	60.78	0.07
16.00	63.00	60.64	0.08
16.50	63.00	60.50	0.09
17.00	63.00	60.35	0.10
17.50	63.00	60.20	0.11
18.00	63.00	60.04	0.12
18.50	63.00	59.88	0.14
19.00	63.00	59.72	0.15
19.50	63.00	59.56	0.17
20.00	63.00	59.39	0.19
20.50	63.00	59.21	0.20
21.00	63.00	59.04	0.22
21.50	63.00	58.86	0.24
22.00	63.00	58.68	0.27
22.50	63.00	58.49	0.29
23.00	63.00	58.31	0.31
23.50	63.00	58.12	0.34
24.00	63.00	57.92	0.37
24.50	63.00	57.72	0.40
25.00	63.00	57.53	0.43
25.50	63.00	57.32	0.46
26.00	63.00	57.12	0.49
26.50	63.00	56.91	0.53
27.00	63.00	56.70	0.57
27.50	63.00	56.49	0.61
28.00	63.00	56.27	0.65
28.50	63.00	56.05	0.69
29.00	63.00	55.83	0.73
29.50	63.00	55.61	0.78
30.00	63.00	55.39	0.83
31.00	63.00	54.93	0.93
32.00	63.00	54.47	1.04
33.00	63.00	53.99	1.16
34.00	63.00	53.51	1.28
35.00	63.00	53.03	1.42
36.00	63.00	52.53	1.56
37.00	63.00	52.03	1.72
38.00	63.00	51.52	1.88
39.00	63.00	51.01	2.05
40.00	63.00	50.49	2.23
41.00	63.00	49.97	2.42
42.00	63.00	49.44	2.62
43.00	63.00	48.91	2.84
44.00	63.00	48.37	3.06
45.00	63.00	47.83	3.29
46.00	63.00	47.29	3.53
47.00	63.00	46.74	3.78
48.00	63.00	46.19	4.04
49.00	63.00	45.64	4.31
50.00	63.00	45.08	4.59
51.00	63.00	44.53	4.88
52.00	63.00	43.97	5.18

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	63.00	43.40	5.49
54.00	63.00	42.84	5.81
55.00	63.00	42.28	6.14
56.00	63.00	41.71	6.48
57.00	63.00	41.14	6.83
58.00	63.00	40.58	7.19
59.00	63.00	40.01	7.56
60.00	63.00	39.44	7.94
61.00	63.00	38.87	8.33
62.00	63.00	38.30	8.73
63.00	63.00	37.74	9.13
64.00	63.00	37.17	9.55
65.00	63.00	36.60	9.98
66.00	63.00	36.03	10.41
67.00	63.00	35.47	10.85
68.00	63.00	34.90	11.30
69.00	63.00	34.34	11.76
70.00	63.00	33.78	12.23
71.00	63.00	33.22	12.71
72.00	63.00	32.66	13.19
73.00	63.00	32.10	13.68
74.00	63.00	31.55	14.18
75.00	63.00	30.99	14.69
76.00	63.00	30.44	15.20
77.00	63.00	29.89	15.72
78.00	63.00	29.34	16.25
79.00	63.00	28.80	16.78
80.00	63.00	28.26	17.32
81.00	63.00	27.71	17.86
82.00	63.00	27.17	18.40
83.00	63.00	26.63	18.95
84.00	63.00	26.08	19.49
85.00	63.00	25.53	20.04
86.00	63.00	24.98	20.59
87.00	63.00	24.44	21.14
88.00	63.00	23.89	21.69
89.00	63.00	23.34	22.24
90.00	63.00	22.79	22.79
91.00	63.00	22.24	23.34
92.00	63.00	21.69	23.89
93.00	63.00	21.14	24.44
94.00	63.00	20.59	24.98
95.00	63.00	20.04	25.53
96.00	63.00	19.49	26.08
97.00	63.00	18.95	26.63
98.00	63.00	18.40	27.17
99.00	63.00	17.86	27.71
100.00	63.00	17.32	28.26
101.00	63.00	16.78	28.80
102.00	63.00	16.25	29.34
103.00	63.00	15.72	29.89
104.00	63.00	15.20	30.44
105.00	63.00	14.69	30.99
106.00	63.00	14.18	31.55
107.00	63.00	13.68	32.10
108.00	63.00	13.19	32.66
109.00	63.00	12.71	33.22
110.00	63.00	12.23	33.78

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	64.00	63.04	0.01
11.00	64.00	62.84	0.02
12.00	64.00	62.63	0.03
13.00	64.00	62.40	0.04
14.00	64.00	62.15	0.05
15.00	64.00	61.88	0.06
15.50	64.00	61.75	0.07
16.00	64.00	61.60	0.08
16.50	64.00	61.46	0.09
17.00	64.00	61.31	0.10
17.50	64.00	61.15	0.12
18.00	64.00	61.00	0.13
18.50	64.00	60.84	0.14
19.00	64.00	60.67	0.16
19.50	64.00	60.51	0.18
20.00	64.00	60.33	0.19
20.50	64.00	60.16	0.21
21.00	64.00	59.98	0.23
21.50	64.00	59.80	0.25
22.00	64.00	59.62	0.28
22.50	64.00	59.43	0.30
23.00	64.00	59.24	0.33
23.50	64.00	59.05	0.35
24.00	64.00	58.85	0.38
24.50	64.00	58.65	0.41
25.00	64.00	58.45	0.45
25.50	64.00	58.24	0.48
26.00	64.00	58.04	0.51
26.50	64.00	57.83	0.55
27.00	64.00	57.61	0.59
27.50	64.00	57.40	0.63
28.00	64.00	57.18	0.67
28.50	64.00	56.96	0.72
29.00	64.00	56.74	0.76
29.50	64.00	56.51	0.81
30.00	64.00	56.29	0.86
31.00	64.00	55.82	0.97
32.00	64.00	55.36	1.08
33.00	64.00	54.88	1.20
34.00	64.00	54.39	1.33
35.00	64.00	53.90	1.47
36.00	64.00	53.40	1.62
37.00	64.00	52.90	1.78
38.00	64.00	52.38	1.95
39.00	64.00	51.87	2.13
40.00	64.00	51.34	2.32
41.00	64.00	50.81	2.51
42.00	64.00	50.28	2.72
43.00	64.00	49.74	2.94
44.00	64.00	49.20	3.17
45.00	64.00	48.66	3.40
46.00	64.00	48.11	3.65
47.00	64.00	47.56	3.91
48.00	64.00	47.00	4.18
49.00	64.00	46.44	4.46
50.00	64.00	45.88	4.75
51.00	64.00	45.32	5.05
52.00	64.00	44.76	5.36

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	64.00	44.19	5.68
54.00	64.00	43.62	6.01
55.00	64.00	43.06	6.35
56.00	64.00	42.49	6.70
57.00	64.00	41.91	7.06
58.00	64.00	41.34	7.43
59.00	64.00	40.77	7.81
60.00	64.00	40.20	8.20
61.00	64.00	39.63	8.60
62.00	64.00	39.05	9.01
63.00	64.00	38.48	9.43
64.00	64.00	37.91	9.85
65.00	64.00	37.34	10.29
66.00	64.00	36.77	10.74
67.00	64.00	36.20	11.19
68.00	64.00	35.63	11.65
69.00	64.00	35.06	12.13
70.00	64.00	34.50	12.61
71.00	64.00	33.93	13.09
72.00	64.00	33.37	13.59
73.00	64.00	32.81	14.09
74.00	64.00	32.25	14.61
75.00	64.00	31.69	15.12
76.00	64.00	31.13	15.65
77.00	64.00	30.58	16.18
78.00	64.00	30.03	16.72
79.00	64.00	29.48	17.27
80.00	64.00	28.93	17.82
81.00	64.00	28.38	18.37
82.00	64.00	27.83	18.92
83.00	64.00	27.27	19.47
84.00	64.00	26.72	20.03
85.00	64.00	26.16	20.59
86.00	64.00	25.61	21.14
87.00	64.00	25.05	21.70
88.00	64.00	24.49	22.26
89.00	64.00	23.93	22.82
90.00	64.00	23.37	23.37
91.00	64.00	22.82	23.93
92.00	64.00	22.26	24.49
93.00	64.00	21.70	25.05
94.00	64.00	21.14	25.61
95.00	64.00	20.59	26.16
96.00	64.00	20.03	26.72
97.00	64.00	19.48	27.27
98.00	64.00	18.92	27.83
99.00	64.00	18.37	28.38
100.00	64.00	17.82	28.93
101.00	64.00	17.27	29.48
102.00	64.00	16.72	30.03
103.00	64.00	16.18	30.58
104.00	64.00	15.65	31.13
105.00	64.00	15.12	31.69
106.00	64.00	14.61	32.25
107.00	64.00	14.09	32.81
108.00	64.00	13.59	33.37
109.00	64.00	13.09	33.93
110.00	64.00	12.61	34.50

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	65.00	64.03	0.01
11.00	65.00	63.83	0.02
12.00	65.00	63.61	0.03
13.00	65.00	63.37	0.04
14.00	65.00	63.12	0.05
15.00	65.00	62.85	0.07
15.50	65.00	62.71	0.08
16.00	65.00	62.57	0.09
16.50	65.00	62.42	0.10
17.00	65.00	62.27	0.11
17.50	65.00	62.11	0.12
18.00	65.00	61.95	0.14
18.50	65.00	61.79	0.15
19.00	65.00	61.63	0.17
19.50	65.00	61.46	0.18
20.00	65.00	61.28	0.20
20.50	65.00	61.11	0.22
21.00	65.00	60.93	0.24
21.50	65.00	60.74	0.27
22.00	65.00	60.56	0.29
22.50	65.00	60.37	0.31
23.00	65.00	60.17	0.34
23.50	65.00	59.98	0.37
24.00	65.00	59.78	0.40
24.50	65.00	59.58	0.43
25.00	65.00	59.37	0.46
25.50	65.00	59.17	0.50
26.00	65.00	58.96	0.53
26.50	65.00	58.74	0.57
27.00	65.00	58.53	0.61
27.50	65.00	58.31	0.66
28.00	65.00	58.09	0.70
28.50	65.00	57.87	0.74
29.00	65.00	57.64	0.79
29.50	65.00	57.42	0.84
30.00	65.00	57.19	0.89
31.00	65.00	56.72	1.00
32.00	65.00	56.25	1.12
33.00	65.00	55.76	1.25
34.00	65.00	55.27	1.39
35.00	65.00	54.78	1.53
36.00	65.00	54.27	1.69
37.00	65.00	53.76	1.85
38.00	65.00	53.24	2.02
39.00	65.00	52.72	2.21
40.00	65.00	52.19	2.40
41.00	65.00	51.66	2.61
42.00	65.00	51.12	2.82
43.00	65.00	50.58	3.04
44.00	65.00	50.04	3.28
45.00	65.00	49.49	3.53
46.00	65.00	48.93	3.78
47.00	65.00	48.38	4.05
48.00	65.00	47.82	4.32
49.00	65.00	47.26	4.61
50.00	65.00	46.69	4.91
51.00	65.00	46.13	5.22
52.00	65.00	45.56	5.54

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	65.00	44.99	5.37
54.00	65.00	44.41	6.21
55.00	65.00	43.84	6.56
56.00	65.00	43.27	6.92
57.00	65.00	42.69	7.29
58.00	65.00	42.12	7.67
59.00	65.00	41.54	8.06
60.00	65.00	40.96	8.46
61.00	65.00	40.39	8.88
62.00	65.00	39.81	9.30
63.00	65.00	39.24	9.73
64.00	65.00	38.66	10.17
65.00	65.00	38.09	10.62
66.00	65.00	37.51	11.07
67.00	65.00	36.94	11.54
68.00	65.00	36.37	12.02
69.00	65.00	35.80	12.50
70.00	65.00	35.23	12.99
71.00	65.00	34.66	13.50
72.00	65.00	34.09	14.00
73.00	65.00	33.53	14.52
74.00	65.00	32.96	15.05
75.00	65.00	32.40	15.58
76.00	65.00	31.84	16.12
77.00	65.00	31.29	16.66
78.00	65.00	30.73	17.22
79.00	65.00	30.18	17.77
80.00	65.00	29.62	18.33
81.00	65.00	29.06	18.89
82.00	65.00	28.50	19.45
83.00	65.00	27.94	20.01
84.00	65.00	27.37	20.58
85.00	65.00	26.81	21.14
86.00	65.00	26.24	21.71
87.00	65.00	25.68	22.27
88.00	65.00	25.11	22.84
89.00	65.00	24.54	23.41
90.00	65.00	23.97	23.97
91.00	65.00	23.41	24.54
92.00	65.00	22.84	25.11
93.00	65.00	22.27	25.68
94.00	65.00	21.71	26.24
95.00	65.00	21.14	26.81
96.00	65.00	20.58	27.37
97.00	65.00	20.01	27.94
98.00	65.00	19.45	28.50
99.00	65.00	18.89	29.06
100.00	65.00	18.33	29.62
101.00	65.00	17.77	30.18
102.00	65.00	17.22	30.73
103.00	65.00	16.66	31.29
104.00	65.00	16.12	31.84
105.00	65.00	15.58	32.40
106.00	65.00	15.05	32.96
107.00	65.00	14.52	33.53
108.00	65.00	14.00	34.09
109.00	65.00	13.50	34.66
110.00	65.00	12.99	35.23

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	66.00	65.01	0.01
11.00	66.00	64.81	0.02
12.00	66.00	64.59	0.03
13.00	66.00	64.35	0.04
14.00	66.00	64.09	0.05
15.00	66.00	63.82	0.07
15.50	66.00	63.68	0.08
16.00	66.00	63.53	0.09
16.50	66.00	63.38	0.10
17.00	66.00	63.23	0.11
17.50	66.00	63.07	0.13
18.00	66.00	62.91	0.14
18.50	66.00	62.75	0.16
19.00	66.00	62.58	0.17
19.50	66.00	62.41	0.19
20.00	66.00	62.23	0.21
20.50	66.00	62.05	0.23
21.00	66.00	61.87	0.25
21.50	66.00	61.68	0.28
22.00	66.00	61.50	0.30
22.50	66.00	61.30	0.33
23.00	66.00	61.11	0.36
23.50	66.00	60.91	0.38
24.00	66.00	60.71	0.42
24.50	66.00	60.51	0.45
25.00	66.00	60.30	0.48
25.50	66.00	60.09	0.52
26.00	66.00	59.88	0.56
26.50	66.00	59.66	0.60
27.00	66.00	59.44	0.64
27.50	66.00	59.22	0.68
28.00	66.00	59.00	0.73
28.50	66.00	58.78	0.77
29.00	66.00	58.55	0.82
29.50	66.00	58.32	0.88
30.00	66.00	58.09	0.93
31.00	66.00	57.62	1.04
32.00	66.00	57.14	1.17
33.00	66.00	56.65	1.30
34.00	66.00	56.16	1.44
35.00	66.00	55.65	1.59
36.00	66.00	55.15	1.75
37.00	66.00	54.63	1.92
38.00	66.00	54.11	2.10
39.00	66.00	53.58	2.29
40.00	66.00	53.05	2.49
41.00	66.00	52.51	2.70
42.00	66.00	51.97	2.92
43.00	66.00	51.42	3.16
44.00	66.00	50.87	3.40
45.00	66.00	50.32	3.65
46.00	66.00	49.76	3.92
47.00	66.00	49.20	4.19
48.00	66.00	48.64	4.48
49.00	66.00	48.07	4.77
50.00	66.00	47.51	5.08
51.00	66.00	46.93	5.40
52.00	66.00	46.36	5.73

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	66.00	45.79	6.07
54.00	66.00	45.21	6.42
55.00	66.00	44.64	6.78
56.00	66.00	44.06	7.15
57.00	66.00	43.48	7.53
58.00	66.00	42.90	7.93
59.00	66.00	42.32	8.33
60.00	66.00	41.74	8.74
61.00	66.00	41.16	9.16
62.00	66.00	40.58	9.60
63.00	66.00	40.00	10.04
64.00	66.00	39.42	10.49
65.00	66.00	38.85	10.95
66.00	66.00	38.27	11.42
67.00	66.00	37.69	11.90
68.00	66.00	37.12	12.39
69.00	66.00	36.54	12.89
70.00	66.00	35.97	13.40
71.00	66.00	35.40	13.91
72.00	66.00	34.83	14.43
73.00	66.00	34.26	14.96
74.00	66.00	33.70	15.50
75.00	66.00	33.13	16.05
76.00	66.00	32.57	16.60
77.00	66.00	32.01	17.16
78.00	66.00	31.45	17.72
79.00	66.00	30.88	18.29
80.00	66.00	30.32	18.86
81.00	66.00	29.75	19.42
82.00	66.00	29.18	19.99
83.00	66.00	28.61	20.56
84.00	66.00	28.04	21.14
85.00	66.00	27.46	21.71
86.00	66.00	26.89	22.28
87.00	66.00	26.31	22.86
88.00	66.00	25.74	23.43
89.00	66.00	25.16	24.01
90.00	66.00	24.59	24.59
91.00	66.00	24.01	25.16
92.00	66.00	23.43	25.74
93.00	66.00	22.86	26.31
94.00	66.00	22.28	26.89
95.00	66.00	21.71	27.46
96.00	66.00	21.14	28.04
97.00	66.00	20.56	28.61
98.00	66.00	19.99	29.18
99.00	66.00	19.42	29.75
100.00	66.00	18.86	30.32
101.00	66.00	18.29	30.88
102.00	66.00	17.72	31.45
103.00	66.00	17.16	32.01
104.00	66.00	16.60	32.57
105.00	66.00	16.05	33.13
106.00	66.00	15.50	33.70
107.00	66.00	14.96	34.26
108.00	66.00	14.43	34.83
109.00	66.00	13.91	35.40
110.00	66.00	13.40	35.97

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	67.00	66.00	0.02
11.00	67.00	65.79	0.02
12.00	67.00	65.57	0.03
13.00	67.00	65.33	0.04
14.00	67.00	65.07	0.06
15.00	67.00	64.79	0.07
15.50	67.00	64.65	0.08
16.00	67.00	64.50	0.09
16.50	67.00	64.35	0.11
17.00	67.00	64.19	0.12
17.50	67.00	64.03	0.13
18.00	67.00	63.87	0.15
18.50	67.00	63.70	0.16
19.00	67.00	63.53	0.18
19.50	67.00	63.36	0.20
20.00	67.00	63.18	0.22
20.50	67.00	63.00	0.24
21.00	67.00	62.81	0.26
21.50	67.00	62.63	0.29
22.00	67.00	62.44	0.31
22.50	67.00	62.24	0.34
23.00	67.00	62.04	0.37
23.50	67.00	61.84	0.40
24.00	67.00	61.64	0.43
24.50	67.00	61.43	0.47
25.00	67.00	61.23	0.50
25.50	67.00	61.01	0.54
26.00	67.00	60.80	0.58
26.50	67.00	60.58	0.62
27.00	67.00	60.36	0.66
27.50	67.00	60.14	0.71
28.00	67.00	59.91	0.76
28.50	67.00	59.69	0.81
29.00	67.00	59.46	0.86
29.50	67.00	59.23	0.91
30.00	67.00	58.99	0.97
31.00	67.00	58.52	1.09
32.00	67.00	58.03	1.21
33.00	67.00	57.54	1.35
34.00	67.00	57.04	1.50
35.00	67.00	56.53	1.65
36.00	67.00	56.02	1.82
37.00	67.00	55.50	1.99
38.00	67.00	54.98	2.18
39.00	67.00	54.45	2.38
40.00	67.00	53.91	2.58
41.00	67.00	53.37	2.80
42.00	67.00	52.82	3.03
43.00	67.00	52.27	3.27
44.00	67.00	51.72	3.52
45.00	67.00	51.16	3.78
46.00	67.00	50.60	4.06
47.00	67.00	50.03	4.34
48.00	67.00	49.47	4.63
49.00	67.00	48.90	4.94
50.00	67.00	48.32	5.26
51.00	67.00	47.75	5.59
52.00	67.00	47.17	5.93

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	67.00	46.60	6.28
54.00	67.00	46.02	6.64
55.00	67.00	45.44	7.01
56.00	67.00	44.86	7.39
57.00	67.00	44.23	7.79
58.00	67.00	43.69	8.19
59.00	67.00	43.11	8.60
60.00	67.00	42.53	9.03
61.00	67.00	41.95	9.46
62.00	67.00	41.36	9.91
63.00	67.00	40.78	10.36
64.00	67.00	40.20	10.83
65.00	67.00	39.62	11.30
66.00	67.00	39.04	11.79
67.00	67.00	38.46	12.28
68.00	67.00	37.88	12.78
69.00	67.00	37.30	13.29
70.00	67.00	36.73	13.81
71.00	67.00	36.16	14.34
72.00	67.00	35.58	14.88
73.00	67.00	35.01	15.43
74.00	67.00	34.45	15.98
75.00	67.00	33.88	16.54
76.00	67.00	33.31	17.10
77.00	67.00	32.74	17.67
78.00	67.00	32.17	18.24
79.00	67.00	31.60	18.82
80.00	67.00	31.03	19.39
81.00	67.00	30.45	19.97
82.00	67.00	29.87	20.55
83.00	67.00	29.29	21.13
84.00	67.00	28.71	21.71
85.00	67.00	28.13	22.29
86.00	67.00	27.55	22.87
87.00	67.00	26.96	23.46
88.00	67.00	26.38	24.04
89.00	67.00	25.79	24.62
90.00	67.00	25.21	25.21
91.00	67.00	24.62	25.79
92.00	67.00	24.04	26.38
93.00	67.00	23.46	26.96
94.00	67.00	22.87	27.55
95.00	67.00	22.29	28.13
96.00	67.00	21.71	28.71
97.00	67.00	21.13	29.29
98.00	67.00	20.55	29.87
99.00	67.00	19.97	30.45
100.00	67.00	19.39	31.03
101.00	67.00	18.82	31.60
102.00	67.00	18.24	32.17
103.00	67.00	17.67	32.74
104.00	67.00	17.10	33.31
105.00	67.00	16.54	33.88
106.00	67.00	15.98	34.45
107.00	67.00	15.43	35.01
108.00	67.00	14.88	35.58
109.00	67.00	14.34	36.16
110.00	67.00	13.81	36.73

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	68.00	66.98	0.02
11.00	68.00	66.77	0.02
12.00	68.00	66.55	0.03
13.00	68.00	66.30	0.04
14.00	68.00	66.04	0.06
15.00	68.00	65.76	0.08
15.50	68.00	65.61	0.09
16.00	68.00	65.46	0.10
16.50	68.00	65.31	0.11
17.00	68.00	65.15	0.12
17.50	68.00	64.99	0.14
18.00	68.00	64.83	0.15
18.50	68.00	64.66	0.17
19.00	68.00	64.48	0.19
19.50	68.00	64.31	0.21
20.00	68.00	64.13	0.23
20.50	68.00	63.95	0.25
21.00	68.00	63.76	0.28
21.50	68.00	63.57	0.30
22.00	68.00	63.38	0.33
22.50	68.00	63.18	0.36
23.00	68.00	62.98	0.39
23.50	68.00	62.78	0.42
24.00	68.00	62.57	0.45
24.50	68.00	62.36	0.49
25.00	68.00	62.15	0.52
25.50	68.00	61.94	0.56
26.00	68.00	61.72	0.60
26.50	68.00	61.50	0.65
27.00	68.00	61.28	0.69
27.50	68.00	61.06	0.74
28.00	68.00	60.83	0.79
28.50	68.00	60.60	0.84
29.00	68.00	60.37	0.89
29.50	68.00	60.13	0.95
30.00	68.00	59.90	1.01
31.00	68.00	59.42	1.13
32.00	68.00	58.93	1.26
33.00	68.00	58.43	1.40
34.00	68.00	57.93	1.55
35.00	68.00	57.42	1.72
36.00	68.00	56.90	1.89
37.00	68.00	56.38	2.07
38.00	68.00	55.85	2.26
39.00	68.00	55.31	2.47
40.00	68.00	54.77	2.68
41.00	68.00	54.23	2.91
42.00	68.00	53.68	3.14
43.00	68.00	53.12	3.39
44.00	68.00	52.56	3.65
45.00	68.00	52.00	3.92
46.00	68.00	51.44	4.20
47.00	68.00	50.87	4.49
48.00	68.00	50.30	4.80
49.00	68.00	49.73	5.11
50.00	68.00	49.15	5.44
51.00	68.00	48.57	5.78
52.00	68.00	48.00	6.13

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	68.00	47.41	6.49
54.00	68.00	46.83	6.86
55.00	68.00	46.25	7.25
56.00	68.00	45.67	7.64
57.00	68.00	45.08	8.05
58.00	68.00	44.50	8.46
59.00	68.00	43.91	8.89
60.00	68.00	43.33	9.33
61.00	68.00	42.74	9.77
62.00	68.00	42.16	10.23
63.00	68.00	41.57	10.70
64.00	68.00	40.99	11.18
65.00	68.00	40.41	11.67
66.00	68.00	39.82	12.16
67.00	68.00	39.24	12.67
68.00	68.00	38.66	13.19
69.00	68.00	38.08	13.71
70.00	68.00	37.51	14.25
71.00	68.00	36.93	14.79
72.00	68.00	36.36	15.34
73.00	68.00	35.78	15.90
74.00	68.00	35.21	16.47
75.00	68.00	34.64	17.04
76.00	68.00	34.07	17.62
77.00	68.00	33.49	18.19
78.00	68.00	32.91	18.77
79.00	68.00	32.33	19.36
80.00	68.00	31.75	19.94
81.00	68.00	31.16	20.52
82.00	68.00	30.58	21.11
83.00	68.00	29.99	21.70
84.00	68.00	29.40	22.29
85.00	68.00	28.81	22.88
86.00	68.00	28.21	23.47
87.00	68.00	27.62	24.06
88.00	68.00	27.03	24.66
89.00	68.00	26.44	25.25
90.00	68.00	25.84	25.84
91.00	68.00	25.25	26.44
92.00	68.00	24.66	27.03
93.00	68.00	24.06	27.62
94.00	68.00	23.47	28.21
95.00	68.00	22.88	28.81
96.00	68.00	22.29	29.40
97.00	68.00	21.70	29.99
98.00	68.00	21.11	30.58
99.00	68.00	20.52	31.16
100.00	68.00	19.94	31.75
101.00	68.00	19.36	32.33
102.00	68.00	18.77	32.91
103.00	68.00	18.19	33.49
104.00	68.00	17.62	34.07
105.00	68.00	17.04	34.64
106.00	68.00	16.47	35.21
107.00	68.00	15.90	35.78
108.00	68.00	15.34	36.36
109.00	68.00	14.79	36.93
110.00	68.00	14.25	37.51

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	69.00	67.97	0.02
11.00	69.00	67.76	0.02
12.00	69.00	67.53	0.03
13.00	69.00	67.28	0.05
14.00	69.00	67.01	0.06
15.00	69.00	66.73	0.08
15.50	69.00	66.58	0.09
16.00	69.00	66.43	0.10
16.50	69.00	66.27	0.12
17.00	69.00	66.11	0.13
17.50	69.00	65.95	0.14
18.00	69.00	65.78	0.16
18.50	69.00	65.61	0.18
19.00	69.00	65.44	0.20
19.50	69.00	65.26	0.22
20.00	69.00	65.08	0.24
20.50	69.00	64.89	0.26
21.00	69.00	64.70	0.29
21.50	69.00	64.51	0.31
22.00	69.00	64.32	0.34
22.50	69.00	64.12	0.37
23.00	69.00	63.92	0.40
23.50	69.00	63.71	0.44
24.00	69.00	63.50	0.47
24.50	69.00	63.29	0.51
25.00	69.00	63.08	0.55
25.50	69.00	62.86	0.59
26.00	69.00	62.65	0.63
26.50	69.00	62.42	0.67
27.00	69.00	62.20	0.72
27.50	69.00	61.97	0.77
28.00	69.00	61.74	0.82
28.50	69.00	61.51	0.87
29.00	69.00	61.28	0.93
29.50	69.00	61.04	0.99
30.00	69.00	60.80	1.05
31.00	69.00	60.32	1.17
32.00	69.00	59.83	1.31
33.00	69.00	59.33	1.46
34.00	69.00	58.82	1.61
35.00	69.00	58.30	1.78
36.00	69.00	57.78	1.96
37.00	69.00	57.25	2.15
38.00	69.00	56.72	2.35
39.00	69.00	56.18	2.56
40.00	69.00	55.64	2.78
41.00	69.00	55.09	3.01
42.00	69.00	54.54	3.26
43.00	69.00	53.98	3.51
44.00	69.00	53.42	3.78
45.00	69.00	52.85	4.06
46.00	69.00	52.28	4.35
47.00	69.00	51.71	4.66
48.00	69.00	51.14	4.97
49.00	69.00	50.56	5.30
50.00	69.00	49.99	5.63
51.00	69.00	49.41	5.98
52.00	69.00	48.82	6.34

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	69.00	48.24	6.72
54.00	69.00	47.66	7.10
55.00	69.00	47.07	7.49
56.00	69.00	46.48	7.90
57.00	69.00	45.90	8.32
58.00	69.00	45.31	8.75
59.00	69.00	44.72	9.19
60.00	69.00	44.14	9.64
61.00	69.00	43.55	10.10
62.00	69.00	42.96	10.57
63.00	69.00	42.38	11.05
64.00	69.00	41.79	11.54
65.00	69.00	41.21	12.05
66.00	69.00	40.62	12.56
67.00	69.00	40.04	13.08
68.00	69.00	39.46	13.61
69.00	69.00	38.88	14.15
70.00	69.00	38.30	14.70
71.00	69.00	37.72	15.26
72.00	69.00	37.15	15.83
73.00	69.00	36.57	16.40
74.00	69.00	36.00	16.98
75.00	69.00	35.42	17.56
76.00	69.00	34.83	18.14
77.00	69.00	34.25	18.73
78.00	69.00	33.66	19.31
79.00	69.00	33.07	19.90
80.00	69.00	32.48	20.50
81.00	69.00	31.88	21.09
82.00	69.00	31.29	21.69
83.00	69.00	30.69	22.28
84.00	69.00	30.09	22.88
85.00	69.00	29.49	23.48
86.00	69.00	28.89	24.08
87.00	69.00	28.29	24.68
88.00	69.00	27.69	25.28
89.00	69.00	27.09	25.89
90.00	69.00	26.49	26.49
91.00	69.00	25.89	27.09
92.00	69.00	25.28	27.69
93.00	69.00	24.68	28.29
94.00	69.00	24.08	28.89
95.00	69.00	23.48	29.49
96.00	69.00	22.88	30.09
97.00	69.00	22.28	30.69
98.00	69.00	21.69	31.29
99.00	69.00	21.09	31.88
100.00	69.00	20.50	32.48
101.00	69.00	19.90	33.07
102.00	69.00	19.31	33.66
103.00	69.00	18.73	34.25
104.00	69.00	18.14	34.83
105.00	69.00	17.56	35.42
106.00	69.00	16.98	36.00
107.00	69.00	16.40	36.57
108.00	69.00	15.83	37.15
109.00	69.00	15.26	37.72
110.00	69.00	14.70	38.30

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	70.00	68.95	0.02
11.00	70.00	68.74	0.03
12.00	70.00	68.51	0.04
13.00	70.00	68.25	0.05
14.00	70.00	67.98	0.06
15.00	70.00	67.70	0.08
15.50	70.00	67.55	0.10
16.00	70.00	67.40	0.11
16.50	70.00	67.24	0.12
17.00	70.00	67.08	0.14
17.50	70.00	66.91	0.15
18.00	70.00	66.74	0.17
18.50	70.00	66.57	0.19
19.00	70.00	66.39	0.21
19.50	70.00	66.21	0.23
20.00	70.00	66.03	0.25
20.50	70.00	65.84	0.27
21.00	70.00	65.65	0.30
21.50	70.00	65.46	0.33
22.00	70.00	65.26	0.36
22.50	70.00	65.06	0.39
23.00	70.00	64.85	0.42
23.50	70.00	64.65	0.45
24.00	70.00	64.44	0.49
24.50	70.00	64.23	0.53
25.00	70.00	64.01	0.57
25.50	70.00	63.79	0.61
26.00	70.00	63.57	0.65
26.50	70.00	63.35	0.70
27.00	70.00	63.12	0.75
27.50	70.00	62.89	0.80
28.00	70.00	62.66	0.85
28.50	70.00	62.43	0.91
29.00	70.00	62.19	0.97
29.50	70.00	61.95	1.03
30.00	70.00	61.71	1.09
31.00	70.00	61.22	1.22
32.00	70.00	60.73	1.36
33.00	70.00	60.22	1.51
34.00	70.00	59.71	1.68
35.00	70.00	59.19	1.85
36.00	70.00	58.67	2.04
37.00	70.00	58.14	2.23
38.00	70.00	57.60	2.44
39.00	70.00	57.06	2.66
40.00	70.00	56.51	2.89
41.00	70.00	55.96	3.13
42.00	70.00	55.40	3.38
43.00	70.00	54.84	3.64
44.00	70.00	54.27	3.92
45.00	70.00	53.71	4.21
46.00	70.00	53.14	4.51
47.00	70.00	52.56	4.82
48.00	70.00	51.99	5.15
49.00	70.00	51.41	5.48
50.00	70.00	50.83	5.83
51.00	70.00	50.24	6.19
52.00	70.00	49.66	6.56

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	70.00	49.08	6.95
54.00	70.00	48.49	7.34
55.00	70.00	47.90	7.75
56.00	70.00	47.31	8.17
57.00	70.00	46.72	8.60
58.00	70.00	46.14	9.04
59.00	70.00	45.55	9.49
60.00	70.00	44.96	9.96
61.00	70.00	44.37	10.43
62.00	70.00	43.78	10.92
63.00	70.00	43.19	11.42
64.00	70.00	42.61	11.92
65.00	70.00	42.02	12.44
66.00	70.00	41.44	12.97
67.00	70.00	40.85	13.50
68.00	70.00	40.27	14.05
69.00	70.00	39.69	14.61
70.00	70.00	39.11	15.17
71.00	70.00	38.54	15.75
72.00	70.00	37.96	16.33
73.00	70.00	37.38	16.91
74.00	70.00	36.79	17.49
75.00	70.00	36.20	18.08
76.00	70.00	35.61	18.67
77.00	70.00	35.02	19.27
78.00	70.00	34.42	19.87
79.00	70.00	33.82	20.46
80.00	70.00	33.22	21.06
81.00	70.00	32.62	21.67
82.00	70.00	32.01	22.27
83.00	70.00	31.41	22.88
84.00	70.00	30.80	23.48
85.00	70.00	30.19	24.09
86.00	70.00	29.58	24.70
87.00	70.00	28.97	25.31
88.00	70.00	28.36	25.92
89.00	70.00	27.75	26.53
90.00	70.00	27.14	27.14
91.00	70.00	26.53	27.75
92.00	70.00	25.92	28.36
93.00	70.00	25.31	28.97
94.00	70.00	24.70	29.58
95.00	70.00	24.09	30.19
96.00	70.00	23.48	30.80
97.00	70.00	22.88	31.41
98.00	70.00	22.27	32.01
99.00	70.00	21.67	32.62
100.00	70.00	21.06	33.22
101.00	70.00	20.46	33.82
102.00	70.00	19.87	34.42
103.00	70.00	19.27	35.02
104.00	70.00	18.67	35.61
105.00	70.00	18.08	36.20
106.00	70.00	17.49	36.79
107.00	70.00	16.91	37.38
108.00	70.00	16.33	37.96
109.00	70.00	15.75	38.54
110.00	70.00	15.17	39.11

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	71.00	69.94	0.02
11.00	71.00	69.72	0.03
12.00	71.00	69.49	0.04
13.00	71.00	69.23	0.05
14.00	71.00	68.96	0.07
15.00	71.00	68.67	0.09
15.50	71.00	68.52	0.10
16.00	71.00	68.36	0.11
16.50	71.00	68.20	0.13
17.00	71.00	68.04	0.14
17.50	71.00	67.87	0.16
18.00	71.00	67.70	0.18
18.50	71.00	67.53	0.19
19.00	71.00	67.35	0.22
19.50	71.00	67.16	0.24
20.00	71.00	66.98	0.26
20.50	71.00	66.79	0.29
21.00	71.00	66.60	0.31
21.50	71.00	66.40	0.34
22.00	71.00	66.20	0.37
22.50	71.00	66.00	0.40
23.00	71.00	65.79	0.44
23.50	71.00	65.58	0.47
24.00	71.00	65.37	0.51
24.50	71.00	65.16	0.55
25.00	71.00	64.94	0.59
25.50	71.00	64.72	0.64
26.00	71.00	64.50	0.68
26.50	71.00	64.27	0.73
27.00	71.00	64.04	0.78
27.50	71.00	63.81	0.83
28.00	71.00	63.58	0.89
28.50	71.00	63.34	0.95
29.00	71.00	63.10	1.01
29.50	71.00	62.86	1.07
30.00	71.00	62.62	1.13
31.00	71.00	62.13	1.27
32.00	71.00	61.63	1.42
33.00	71.00	61.12	1.57
34.00	71.00	60.61	1.74
35.00	71.00	60.08	1.92
36.00	71.00	59.55	2.11
37.00	71.00	59.02	2.32
38.00	71.00	58.48	2.53
39.00	71.00	57.93	2.76
40.00	71.00	57.38	2.99
41.00	71.00	56.83	3.24
42.00	71.00	56.27	3.51
43.00	71.00	55.71	3.78
44.00	71.00	55.14	4.07
45.00	71.00	54.57	4.36
46.00	71.00	53.99	4.67
47.00	71.00	53.42	5.00
48.00	71.00	52.84	5.33
49.00	71.00	52.26	5.68
50.00	71.00	51.68	6.04
51.00	71.00	51.09	6.41
52.00	71.00	50.51	6.79

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	71.00	49.92	7.19
54.00	71.00	49.33	7.60
55.00	71.00	48.74	8.02
56.00	71.00	48.15	8.45
57.00	71.00	47.56	8.89
58.00	71.00	46.97	9.35
59.00	71.00	46.38	9.82
60.00	71.00	45.79	10.29
61.00	71.00	45.21	10.78
62.00	71.00	44.62	11.28
63.00	71.00	44.03	11.80
64.00	71.00	43.44	12.32
65.00	71.00	42.86	12.85
66.00	71.00	42.27	13.39
67.00	71.00	41.69	13.95
68.00	71.00	41.11	14.51
69.00	71.00	40.53	15.08
70.00	71.00	39.95	15.66
71.00	71.00	39.36	16.25
72.00	71.00	38.78	16.84
73.00	71.00	38.18	17.43
74.00	71.00	37.59	18.02
75.00	71.00	36.99	18.62
76.00	71.00	36.39	19.22
77.00	71.00	35.79	19.82
78.00	71.00	35.19	20.42
79.00	71.00	34.58	21.03
80.00	71.00	33.97	21.64
81.00	71.00	33.36	22.25
82.00	71.00	32.75	22.86
83.00	71.00	32.13	23.48
84.00	71.00	31.52	24.09
85.00	71.00	30.90	24.71
86.00	71.00	30.28	25.33
87.00	71.00	29.66	25.95
88.00	71.00	29.04	26.57
89.00	71.00	28.43	27.19
90.00	71.00	27.81	27.81
91.00	71.00	27.19	28.42
92.00	71.00	26.57	29.04
93.00	71.00	25.95	29.66
94.00	71.00	25.33	30.28
95.00	71.00	24.71	30.90
96.00	71.00	24.09	31.52
97.00	71.00	23.48	32.13
98.00	71.00	22.86	32.75
99.00	71.00	22.25	33.36
100.00	71.00	21.64	33.97
101.00	71.00	21.03	34.58
102.00	71.00	20.42	35.19
103.00	71.00	19.82	35.79
104.00	71.00	19.22	36.39
105.00	71.00	18.62	36.99
106.00	71.00	18.02	37.59
107.00	71.00	17.43	38.18
108.00	71.00	16.84	38.78
109.00	71.00	16.25	39.36
110.00	71.00	15.66	39.95

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	72.00	70.93	0.02
11.00	72.00	70.70	0.03
12.00	72.00	70.47	0.04
13.00	72.00	70.21	0.05
14.00	72.00	69.93	0.07
15.00	72.00	69.64	0.09
15.50	72.00	69.49	0.10
16.00	72.00	69.33	0.12
16.50	72.00	69.17	0.13
17.00	72.00	69.00	0.15
17.50	72.00	68.83	0.16
18.00	72.00	68.66	0.18
18.50	72.00	68.48	0.20
19.00	72.00	68.30	0.22
19.50	72.00	68.12	0.25
20.00	72.00	67.93	0.27
20.50	72.00	67.74	0.30
21.00	72.00	67.54	0.33
21.50	72.00	67.35	0.36
22.00	72.00	67.14	0.39
22.50	72.00	66.94	0.42
23.00	72.00	66.73	0.46
23.50	72.00	66.52	0.49
24.00	72.00	66.31	0.53
24.50	72.00	66.09	0.57
25.00	72.00	65.87	0.62
25.50	72.00	65.65	0.66
26.00	72.00	65.42	0.71
26.50	72.00	65.20	0.76
27.00	72.00	64.97	0.81
27.50	72.00	64.73	0.87
28.00	72.00	64.50	0.93
28.50	72.00	64.26	0.98
29.00	72.00	64.02	1.05
29.50	72.00	63.78	1.11
30.00	72.00	63.53	1.18
31.00	72.00	63.04	1.32
32.00	72.00	62.53	1.47
33.00	72.00	62.02	1.64
34.00	72.00	61.50	1.81
35.00	72.00	60.98	2.00
36.00	72.00	60.45	2.20
37.00	72.00	59.91	2.41
38.00	72.00	59.37	2.63
39.00	72.00	58.82	2.86
40.00	72.00	58.26	3.11
41.00	72.00	57.71	3.37
42.00	72.00	57.14	3.64
43.00	72.00	56.58	3.92
44.00	72.00	56.01	4.22
45.00	72.00	55.44	4.52
46.00	72.00	54.86	4.84
47.00	72.00	54.28	5.18
48.00	72.00	53.70	5.52
49.00	72.00	53.12	5.88
50.00	72.00	52.54	6.25
51.00	72.00	51.95	6.64
52.00	72.00	51.36	7.03

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	72.00	50.77	7.44
54.00	72.00	50.19	7.86
55.00	72.00	49.60	8.30
56.00	72.00	49.01	8.74
57.00	72.00	48.42	9.20
58.00	72.00	47.83	9.67
59.00	72.00	47.24	10.15
60.00	72.00	46.65	10.65
61.00	72.00	46.06	11.15
62.00	72.00	45.47	11.67
63.00	72.00	44.88	12.19
64.00	72.00	44.29	12.73
65.00	72.00	43.71	13.28
66.00	72.00	43.13	13.84
67.00	72.00	42.54	14.41
68.00	72.00	41.96	14.99
69.00	72.00	41.38	15.58
70.00	72.00	40.79	16.16
71.00	72.00	40.20	16.76
72.00	72.00	39.60	17.35
73.00	72.00	39.00	17.95
74.00	72.00	38.40	18.55
75.00	72.00	37.79	19.16
76.00	72.00	37.19	19.77
77.00	72.00	36.58	20.38
78.00	72.00	35.96	20.99
79.00	72.00	35.35	21.61
80.00	72.00	34.73	22.23
81.00	72.00	34.11	22.85
82.00	72.00	33.49	23.47
83.00	72.00	32.86	24.09
84.00	72.00	32.24	24.71
85.00	72.00	31.61	25.34
86.00	72.00	30.99	25.97
87.00	72.00	30.36	26.59
88.00	72.00	29.73	27.22
89.00	72.00	29.11	27.85
90.00	72.00	28.48	28.48
91.00	72.00	27.85	29.11
92.00	72.00	27.22	29.73
93.00	72.00	26.59	30.36
94.00	72.00	25.97	30.99
95.00	72.00	25.34	31.61
96.00	72.00	24.71	32.24
97.00	72.00	24.09	32.86
98.00	72.00	23.47	33.49
99.00	72.00	22.85	34.11
100.00	72.00	22.23	34.73
101.00	72.00	21.61	35.35
102.00	72.00	20.99	35.96
103.00	72.00	20.38	36.57
104.00	72.00	19.77	37.19
105.00	72.00	19.16	37.79
106.00	72.00	18.55	38.40
107.00	72.00	17.95	39.00
108.00	72.00	17.35	39.60
109.00	72.00	16.76	40.20
110.00	72.00	16.16	40.79

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	72.50	71.42	0.02
11.00	72.50	71.20	0.03
12.00	72.50	70.96	0.04
13.00	72.50	70.70	0.05
14.00	72.50	70.42	0.07
15.00	72.50	70.12	0.09
15.50	72.50	69.97	0.11
16.00	72.50	69.81	0.12
16.50	72.50	69.65	0.13
17.00	72.50	69.48	0.15
17.50	72.50	69.31	0.17
18.00	72.50	69.14	0.19
18.50	72.50	68.96	0.21
19.00	72.50	68.78	0.23
19.50	72.50	68.59	0.25
20.00	72.50	68.41	0.28
20.50	72.50	68.21	0.30
21.00	72.50	68.02	0.33
21.50	72.50	67.82	0.36
22.00	72.50	67.62	0.40
22.50	72.50	67.41	0.43
23.00	72.50	67.20	0.47
23.50	72.50	66.99	0.50
24.00	72.50	66.78	0.54
24.50	72.50	66.56	0.59
25.00	72.50	66.34	0.63
25.50	72.50	66.11	0.68
26.00	72.50	65.89	0.73
26.50	72.50	65.66	0.78
27.00	72.50	65.43	0.83
27.50	72.50	65.19	0.89
28.00	72.50	64.96	0.94
28.50	72.50	64.72	1.01
29.00	72.50	64.48	1.07
29.50	72.50	64.24	1.13
30.00	72.50	63.99	1.20
31.00	72.50	63.49	1.35
32.00	72.50	62.99	1.50
33.00	72.50	62.47	1.67
34.00	72.50	61.95	1.85
35.00	72.50	61.43	2.04
36.00	72.50	60.89	2.24
37.00	72.50	60.35	2.45
38.00	72.50	59.81	2.68
39.00	72.50	59.26	2.92
40.00	72.50	58.70	3.17
41.00	72.50	58.15	3.43
42.00	72.50	57.58	3.70
43.00	72.50	57.02	3.99
44.00	72.50	56.45	4.29
45.00	72.50	55.87	4.61
46.00	72.50	55.30	4.93
47.00	72.50	54.72	5.27
48.00	72.50	54.14	5.62
49.00	72.50	53.55	5.99
50.00	72.50	52.97	6.37
51.00	72.50	52.38	6.76
52.00	72.50	51.79	7.16

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	72.50	51.21	7.57
54.00	72.50	50.62	8.00
55.00	72.50	50.03	8.44
56.00	72.50	49.44	8.90
57.00	72.50	48.85	9.36
58.00	72.50	48.26	9.84
59.00	72.50	47.67	10.33
60.00	72.50	47.08	10.83
61.00	72.50	46.49	11.34
62.00	72.50	45.90	11.86
63.00	72.50	45.31	12.40
64.00	72.50	44.73	12.95
65.00	72.50	44.14	13.50
66.00	72.50	43.56	14.07
67.00	72.50	42.98	14.65
68.00	72.50	42.39	15.24
69.00	72.50	41.81	15.82
70.00	72.50	41.21	16.42
71.00	72.50	40.62	17.01
72.00	72.50	40.02	17.61
73.00	72.50	39.41	18.22
74.00	72.50	38.81	18.82
75.00	72.50	38.20	19.43
76.00	72.50	37.58	20.05
77.00	72.50	36.97	20.66
78.00	72.50	36.35	21.28
79.00	72.50	35.73	21.90
80.00	72.50	35.11	22.52
81.00	72.50	34.49	23.14
82.00	72.50	33.86	23.77
83.00	72.50	33.23	24.40
84.00	72.50	32.60	25.03
85.00	72.50	31.97	25.66
86.00	72.50	31.34	26.29
87.00	72.50	30.71	26.92
88.00	72.50	30.08	27.55
89.00	72.50	29.45	28.18
90.00	72.50	28.82	28.82
91.00	72.50	28.18	29.45
92.00	72.50	27.55	30.08
93.00	72.50	26.92	30.71
94.00	72.50	26.29	31.34
95.00	72.50	25.66	31.97
96.00	72.50	25.03	32.60
97.00	72.50	24.40	33.23
98.00	72.50	23.77	33.86
99.00	72.50	23.14	34.49
100.00	72.50	22.52	35.11
101.00	72.50	21.90	35.73
102.00	72.50	21.28	36.35
103.00	72.50	20.66	36.97
104.00	72.50	20.05	37.58
105.00	72.50	19.43	38.20
106.00	72.50	18.82	38.81
107.00	72.50	18.22	39.41
108.00	72.50	17.61	40.02
109.00	72.50	17.01	40.62
110.00	72.50	16.42	41.21

θ	γ_{LV}	γ_{SV}	γ_{SL}
10.00	73.00	71.91	0.02
11.00	73.00	71.69	0.03
12.00	73.00	71.45	0.04
13.00	73.00	71.18	0.06
14.00	73.00	70.91	0.07
15.00	73.00	70.61	0.10
15.50	73.00	70.45	0.11
16.00	73.00	70.29	0.12
16.50	73.00	70.13	0.14
17.00	73.00	69.96	0.15
17.50	73.00	69.79	0.17
18.00	73.00	69.62	0.19
18.50	73.00	69.44	0.21
19.00	73.00	69.26	0.23
19.50	73.00	69.07	0.26
20.00	73.00	68.88	0.28
20.50	73.00	68.69	0.31
21.00	73.00	68.49	0.34
21.50	73.00	68.29	0.37
22.00	73.00	68.09	0.40
22.50	73.00	67.88	0.44
23.00	73.00	67.67	0.48
23.50	73.00	67.46	0.51
24.00	73.00	67.24	0.56
24.50	73.00	67.03	0.60
25.00	73.00	66.80	0.64
25.50	73.00	66.58	0.69
26.00	73.00	66.35	0.74
26.50	73.00	66.12	0.79
27.00	73.00	65.89	0.85
27.50	73.00	65.66	0.90
28.00	73.00	65.42	0.96
28.50	73.00	65.18	1.03
29.00	73.00	64.94	1.09
29.50	73.00	64.69	1.16
30.00	73.00	64.45	1.23
31.00	73.00	63.95	1.37
32.00	73.00	63.44	1.53
33.00	73.00	62.93	1.70
34.00	73.00	62.40	1.88
35.00	73.00	61.88	2.08
36.00	73.00	61.34	2.28
37.00	73.00	60.80	2.50
38.00	73.00	60.25	2.73
39.00	73.00	59.70	2.97
40.00	73.00	59.15	3.23
41.00	73.00	58.59	3.49
42.00	73.00	58.02	3.77
43.00	73.00	57.46	4.07
44.00	73.00	56.88	4.37
45.00	73.00	56.31	4.69
46.00	73.00	55.73	5.02
47.00	73.00	55.15	5.37
48.00	73.00	54.57	5.73
49.00	73.00	53.99	6.10
50.00	73.00	53.40	6.48
51.00	73.00	52.82	6.88
52.00	73.00	52.23	7.29

θ	γ_{LV}	γ_{SV}	γ_{SL}
53.00	73.00	51.64	7.71
54.00	73.00	51.05	8.14
55.00	73.00	50.46	8.59
56.00	73.00	49.87	9.05
57.00	73.00	49.28	9.52
58.00	73.00	48.69	10.01
59.00	73.00	48.10	10.50
60.00	73.00	47.51	11.01
61.00	73.00	46.92	11.53
62.00	73.00	46.34	12.07
63.00	73.00	45.75	12.61
64.00	73.00	45.17	13.17
65.00	73.00	44.58	13.73
66.00	73.00	44.00	14.31
67.00	73.00	43.42	14.89
68.00	73.00	42.83	15.48
69.00	73.00	42.24	16.07
70.00	73.00	41.64	16.67
71.00	73.00	41.04	17.27
72.00	73.00	40.43	17.88
73.00	73.00	39.83	18.48
74.00	73.00	39.22	19.09
75.00	73.00	38.60	19.71
76.00	73.00	37.99	20.32
77.00	73.00	37.37	20.94
78.00	73.00	36.74	21.57
79.00	73.00	36.12	22.19
80.00	73.00	35.49	22.82
81.00	73.00	34.87	23.45
82.00	73.00	34.23	24.08
83.00	73.00	33.60	24.71
84.00	73.00	32.97	25.34
85.00	73.00	32.34	25.97
86.00	73.00	31.70	26.61
87.00	73.00	31.07	27.24
88.00	73.00	30.43	27.88
89.00	73.00	29.79	28.52
90.00	73.00	29.16	29.16
91.00	73.00	28.52	29.79
92.00	73.00	27.88	30.43
93.00	73.00	27.24	31.07
94.00	73.00	26.61	31.70
95.00	73.00	25.97	32.34
96.00	73.00	25.34	32.97
97.00	73.00	24.71	33.60
98.00	73.00	24.08	34.23
99.00	73.00	23.45	34.86
100.00	73.00	22.82	35.49
101.00	73.00	22.19	36.12
102.00	73.00	21.57	36.74
103.00	73.00	20.94	37.37
104.00	73.00	20.33	37.99
105.00	73.00	19.71	38.60
106.00	73.00	19.09	39.22
107.00	73.00	18.48	39.83
108.00	73.00	17.88	40.43
109.00	73.00	17.27	41.04
110.00	73.00	16.67	41.64