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Construction of Mortality Tables using Uniformly Distribution of Death and Constant Force Based Approaches in Tmi 2019

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Abstract

Insurance aims to protect a person from financial losses that may occur due to an unexpected event. On the determination of insurance premiums used mortality tables. However, on the mortality table contains only a round age. While an event cannot be ascertained when it occurs, it could be at the beginning of the year, in the middle, or at the end of the year. Therefore, to determine insurance premiums at an age that is not round, a mortality table that contains fractional age is needed. In this study, the mortality table used is the 2019 Indonesian Mortality Table (IMT) issued by the Indonesian Actuary Association (IAA). The methods used for determining fractional age mortality tables are the Uniform Distribution of Death (UDD) approach and the Constant Force of Mortality (CF) approach. In this study, the results of the 2019 TMI calculation were obtained for fractional ages with male and female genders using two approaches, namely the UDD and CF approaches. In both sexes, the result was obtained that the chance of death calculated using the UDD approach was smaller compared to the CF approach. The resulting graph shows that the 2019 TMI death chances with the UDD and CF approaches did not show significant differences for both men and women, so both approaches can be used to calculate the chance of death at the fractional age of TMI 2019.

Keywords: Mortality table, Uniform Distribution of Death (UDD), Constant Force of Mortality (CF).

1. Introduction

Every human being is certain that no one can be certain what events will be experienced in the future, for example being hit by a natural disaster, having an accident or dying. However, from the uncertainty that has been mentioned humans can minimize the risk. One of them with insurance. Insurance aims to protect someone from financial losses that may occur due to an unexpected event.

Related to insurance, each insurance participant must pay a premium to the insurance company. In determining the amount of the premium used mortality table. The mortality table is a table that shows the probability that a member of the population will die at each age.

There are two types of mortality tables, namely complete mortality tables and abridged mortality tables. A complete mortality table is made complete and detailed by one year of age. Meanwhile, the concise mortality table covers all ages but is not detailed according to one year, usually five or ten years. Because it is not certain when an event will occur, it could be at the beginning of the year, in the middle, or at the end of the year, a fractional age mortality table is needed. In calculating fractional age mortality tables, there are two approaches, namely the uniform distribution of death (UDD) approach and the constant force of mortality (CF) approach, and the mortality table used is the complete mortality table.

Studies related to the UDD approach have been carried out by Usta, (2016) which states that the results of calculating the net single premium with the distribution with Frank's copula yields a lower value compared to the calculation of the assumption of freedom for all beneficiary cases. In this study, the marginal distribution of husbands and wives directly used the mortality values in the Indonesian Mortality Table IV 2019 where the mortality values at non-integer ages were calculated using the assumption of a uniform distribution of death (UDD). Another study was conducted by Boyden, (2003) which stated that the premium reserve calculation value using the Premium Sufficiency method for age fractions continues to increase each period. In this study, the assumption of the Uniform Distribution of Death (UDD) was used.

Likewise, research related to the CF approach has been carried out by Barber (1995) which states that the value of the reserves generated in the case of a man and a woman aged 23, 30 and 35 years, with a long insurance coverage period of five years and a long premium payment period for five years, then interest rates are 4, 5 and 6% and the amount of compensation to be received is IDR 30,000,000 for the first year of IDR 4,151,101 with the value of reserves generated per month, for the first month in the first year of IDR 368,076, - and increasing every month and every year during the coverage period, so that the reserve value is the same as the compensation received by the insured when the period ends. This study analyzes the amount of premium reserves for endowment life insurance using the Fackler method based on the Constant Force assumption using the 2019 Indonesian Mortality Table. Another study was also conducted by Grant (2008) which stated that in determining the last survivor life insurance premium, premiums must be determined in advance. individual life insura9nce and premiums for joint life insurance. This study discusses the calculation of premiums using constant force assumptions. The main objective of this study was to obtain a table of fractional age mortality and to compare the two approaches, namely the uniform distribution of death (UDD) approach and the constant force of mortality (CF) approach (Preston & Coale, 1982).

2. Literature Review

2.1 Mortality Table

The mortality table is a tabular description of the probability of death for each member of the population in the form of positive integers and zeros (Coale & Li, 1991). In its development, mortality tables are divided into two types, namely complete mortality tables and summary mortality tables. According to (Burden & Winkler, 1999), a complete mortality table or a complete mortality table or a complete mortality table is a table that is detailed according to one year's age and a summary mortality table is a mortality table that includes all ages but not detailed according to one year. Mortality tables are usually used by actuaries to calculate accurate premiums.

There are several symbols in the mortality table, the symbol l_x represents the number of people living at the age of x years. The symbol d_x represents the number of people aged x years who die before reaching the age of $x+1$ years:

$$d_x = l_x - l_{x+1} \tag{1}$$

The probability that a person aged x years will survive age $x+1$ is denoted by $x+1$ and is defined by:

$$p_x = \frac{l_{x+1}}{l_x} \tag{2}$$

The probability that a person aged x years will survive to age $x+t$ years:

$${}_tP_x = \frac{l_{x+t}}{l_x} \tag{3}$$

The probability that a person aged *x* years will die before reaching the age of *x+1* years:

$$q_x = 1 - p_x \tag{4}$$

Referring to equation (2), the $q_x$value is obtained:

$$q_x = 1 - \frac{l_{x+1}}{l_x} = \frac{l_x - l_{x+1}}{l_x}$$

$$q_x = \frac{d_x}{l_x} \tag{5}$$

The probability that a person aged x years will die or before reaching the age of *x+1* years:

$${}_tq_x = 1 - {}_tP_x$$

Referring to equation (3), the value of ${}_tq_x$ is obtained

$${}_tq_x = 1 - \frac{l_{x+t}}{l_x} = \frac{l_x - l_{x+t}}{l_x} \tag{6}$$

2.2 Approaches to Fractional Ages

According to (Jouini et al., 2008), the mortality table (*life table*) contains the chances of life and the probability of death based on age, it can also be interpreted as the number of people who live and die from the age of 0 years to the age limit where the number of people living at that age is 0 people.

In this section, we will discuss the mortality tables with fractional ages used using the UDD and CF approaches.

2.3 Uniform Distribution of Death (UDD) Approach

According to Friedler (1986), the UDD approach is the assumption used for fractional ages using linear interpolation or the so-called uniform distribution of death assumptions, where ${}_tP_x$ is a linear function.

(Goldstein & Lee, (2020) states that if d_x is the number of people aged *x* years who died before reaching the age of $x+1$ year, then the UDD assumption will have $t.d_x$ up to time t years with $0 < t < 1$ and l_x denotes the number of people living in *x* years old. As a result, under the UDD assumption the number of people alive at age $x+t$ years is:

$$l_{x+t} \approx l_x - t.d_x \tag{7}$$

Referring to equation (1), the value of l_x is obtained:

$l_{x+t} \approx l_x - t.(l_x - l_{x+1})$
$l_{x+t} = l_x - t.l_x + t.l_{x+1}$
$l_{x+t} = (1-t)l_x + t.l_{x+1}$

For the UDD assumption, the value of q_x is obtained from the relationship l_{x+t} then

$$ {}_tq_x = 1 - \quad {}_tP_x = 1 - \frac{l_{x+t}}{l_x} = \frac{l_x - l_{x+t}}{l_x}$$

Referring to equation (7), the value of ${}_tq_x$ is obtained:

$$ {}_tq_x = \frac{l_x - l_{x+t}}{l_x} = \frac{l_x - (l_x - t.d_x)}{l_x} = t.\frac{d_x}{l_x} = t.q_x \tag{8}$$

2.4 Constant Force of Mortality (CF) Approach

The CF approach is the assumption of constant acceleration which results in the Constant Force of Mortality $x+1$ for $0 < t < 1$. In other words:

$$\mu_{x+1} = \mu \text{ for } 0<t<1 \tag{9}$$

The CF assumption formula for q_x is obtained

$$q_x = 1 - p_x = 1 - \left(exp\left(- \int_0^1 \mu_{x+t} dt \right) \right)$$

Referring to equation (9) obtained:

$$q_x = 1 - \left(exp\left(- \int_0^1 \mu \, dt \right) \right) = 1 - \left(exp\left(-\mu t \Big|_0^1 \right) \right) = 1 - exp(-\mu)\,(1-0)$$

Then the q_x value is obtained:

$$q_x = 1 - e^{-\mu} \tag{10}$$

$$p_x = e^{-\mu} \tag{11}$$

Referring to equation (11) obtained:

$$ {}_tP_x = exp((-\mu).t)$$

As a result, $(\quad {}_tP_x)^{1/t} = exp\left((-\mu)t.\frac{1}{t}\right) = exp(-\mu)$

Then the CF assumption for the p_x value is obtained:

$$p_x = (\quad {}_tP_x)^{1/t} \tag{12}$$

Referring to equation (12) the CF assumption is obtained:

$(p_x)^t = (\quad {}_tP_x)^{t/t}$
$(p_x)^t = \quad {}_tP_x$
${}_tq_x = 1 - (p_x)^t$

3. Materials and Methods

The data used in this study is the q_x value, which is the probability that a person at the age of x will die before reaching his $x+1$ birthday in the 2019 Indonesian Mortality Table (TMI). This study used Microsoft Excel software as a supporting software for data processing.

The steps in constructing a mortality table for fractional ages are as follows.

1. Determine the mathematical equations needed to produce a mortality table for fractional ages assuming UDD and CF.
2. Calculating the q_x value based on the equation on the UDD and CF assumptions.
3. Make a mortality table for fractional age with the UDD and CF approach.
4. Making a graphical illustration for the mortality table using the UDD and CF approaches.

4. Results and Discussion

4.1 Probability of Death with the UDD Approach

Probability of dying to construct a fractional age mortality table can be done using the UDD approach. Calculation of the probability of dying with the UDD approach can be solved using the formula in equation (8). The calculation of the 2019 TMI mortality probability for fractional ages using the UDD approach is as follows.

$${}_0q_0 = q_0 = 0.00524$$
$${}_{0.1}q_0 = (0.1).q_0 = (0.1).0.00524 = 0.000524$$
$${}_{0.2}q_0 = (0.2).q_0 = (0.2).0.00524 = 0.001048$$
...
$${}_{0.8}q_{41} = (0.8).q_{41} = (0.8).0.00193 = 0.001544$$
$${}_{0.9}q_{41} = (0.9).q_{41} = (0.9).0.00193 = 0.001737$$
...
$${}_{0.9}q_{110} = (0.9).q_{110} = (0.9).0.59244 = 0.533196$$
$${}_0q_{111} = q_{111} = 1$$

The calculation above is a calculation of the probability of dying at TMI 2019 for the age fraction of the male sex, the same thing is done to calculate the population age fraction for the female sex. The results of calculating the 2019 TMI mortality probability for fractional age using the UDD approach will then be displayed in the form of a fractional mortality table.

4.2 Probability of Death with the CF Approach

The probability of dying to construct a fractional age mortality table can be calculated using the CF approach as in equation (13). The calculation of the 2019 TMI mortality probability for fractional ages using the CF approach is as follows.

$${}_0q_0 = q_0 = 0.00524$$
$${}_{0.1}q_0 = 1 - (p_0)^{0.1} = 1 - (1 - 0.00524)^{0.1} = 0.000525$$
$${}_{0.2}q_0 = 1 - (p_0)^{0.2} = 1 - (1 - 0.00524)^{0.2} = 0.001050$$
...
$${}_{0.8}q_{41} = 1 - (p_{41})^{0.8} = 1 - (1 - 0.00193)^{0.8} = 0.001544$$
$${}_{0.9}q_{41} = 1 - (p_{41})^{0.9} = 1 - (1 - 0.00193)^{0.9} = 0.001737$$
...
$${}_{0.9}q_{110} = 1 - (p_{110})^{0.9} = 1 - (1 - 0.59244)^{0.9} = 0.554167$$
$${}_0q_{111} = q_{111} = 1$$

The calculation above is a calculation of the probability of dying at TMI 2019 for the age fraction of the male sex, the same thing is done to calculate the population age fraction for the female sex. The results of the 2019 TMI calculation for fractional age using the CF approach will then be displayed in the form of a fractional mortality table.

4.3 TMI 2019 Construction Results with the UUD and CF Approaches

The mortality table for fractional ages using the UDD and CF approaches based on the 2019 TMI can be seen in the following Table 1.

Male

Table 1: 2019 TMI and its Adjustments

x	q_x (TMI 2019)	q_x (UDD) Male	q_x (CF)	q_x (TMI 2019)	q_x (UDD) Female	q_x (CF)
0	0.00524	0.00524	0.005240	0.00266	0.00266	0.002660
0.1	-	0.000524	0.000525	-	0.000266	0.000266
0.2	-	0.001048	0.001050	-	0.000532	0.000533
0.3	-	0.001572	0.001575	-	0.000798	0.000799
0.4	-	0.002096	0.002099	-	0.001064	0.001065
0.5	-	0.00262	0.002623	-	0.00133	0.001331
0.6	-	0.003144	0.003147	-	0.001596	0.001597
0.7	-	0.003668	0.003671	-	0.001862	0.001863
0.8	-	0.004192	0.004194	-	0.002128	0.002129
0.9	-	0.004716	0.004717	-	0.002394	0.002394

1	0.00053	0.00053	0.000530	0.00041	0.00041	0.000410
1.1	-	0.000053	0.000053	-	0.000041	0.000041
1.2	-	0.000106	0.000106	-	0.000082	0.000082
1.3	-	0.000159	0.000159	-	0.000123	0.000123
1.4	-	0.000212	0.000212	-	0.000164	0.000164
1.5	-	0.000265	0.000265	-	0.000205	0.000205
1.6	-	0.000318	0.000318	-	0.000246	0.000246
…	…	…	…	…	…	…
110.8	-	0.473952	0.512299	-	0.469616	0.507118
110.9	-	0.533196	0.554167	-	0.528318	0.548834
111	1	1	1	1	1	1

4.4 Graphical Illustration for Mortality Tables

Graphical illustrations for the 2019 Indonesian Mortality Table using the UDD and CF approaches can be seen in Figure 1, Figure 2, Figure 3, and Figure 4.

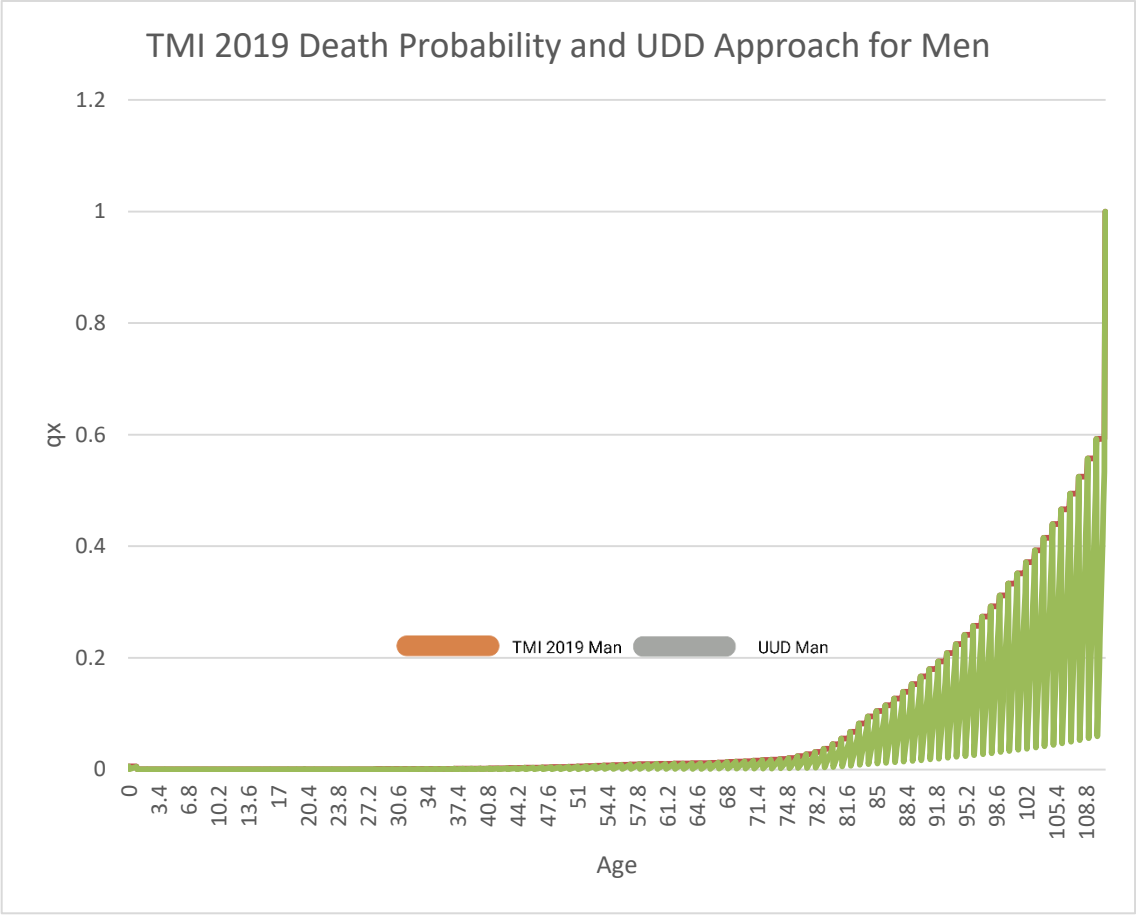

Figure 1: TMI 2019 Death Probability and UDD Approach for Men

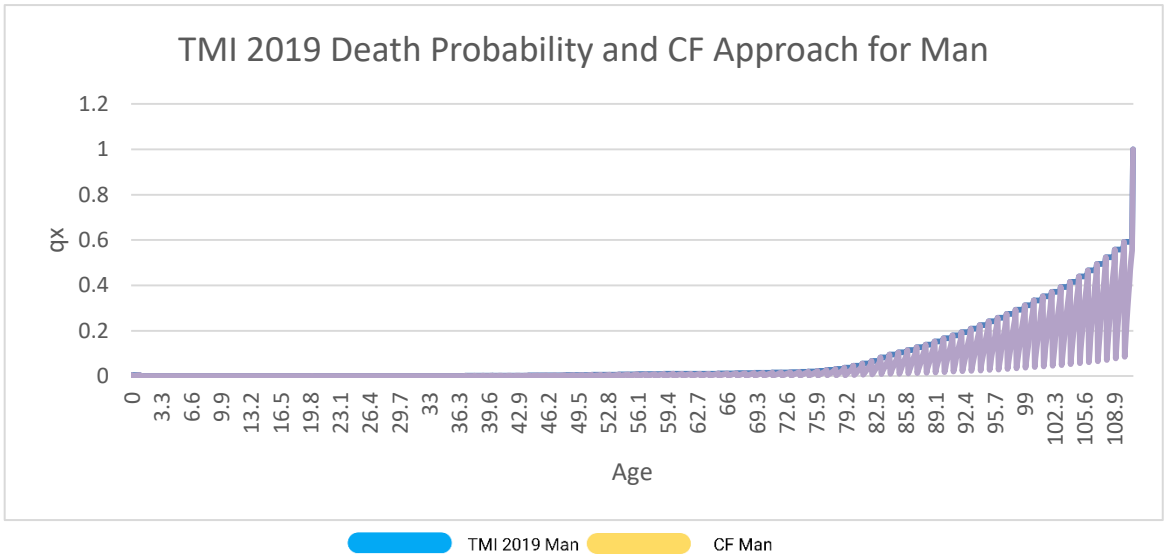

Figure 2: TMI 2019 Death Probability and CF Approach for Men

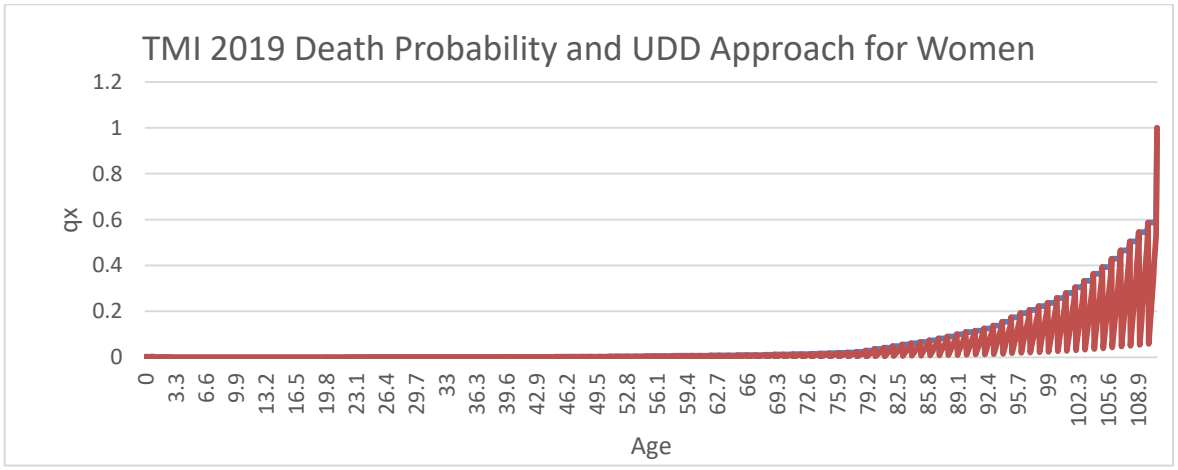

Figure 3: TMI 2019 Death Probability and UDD Approach for Women

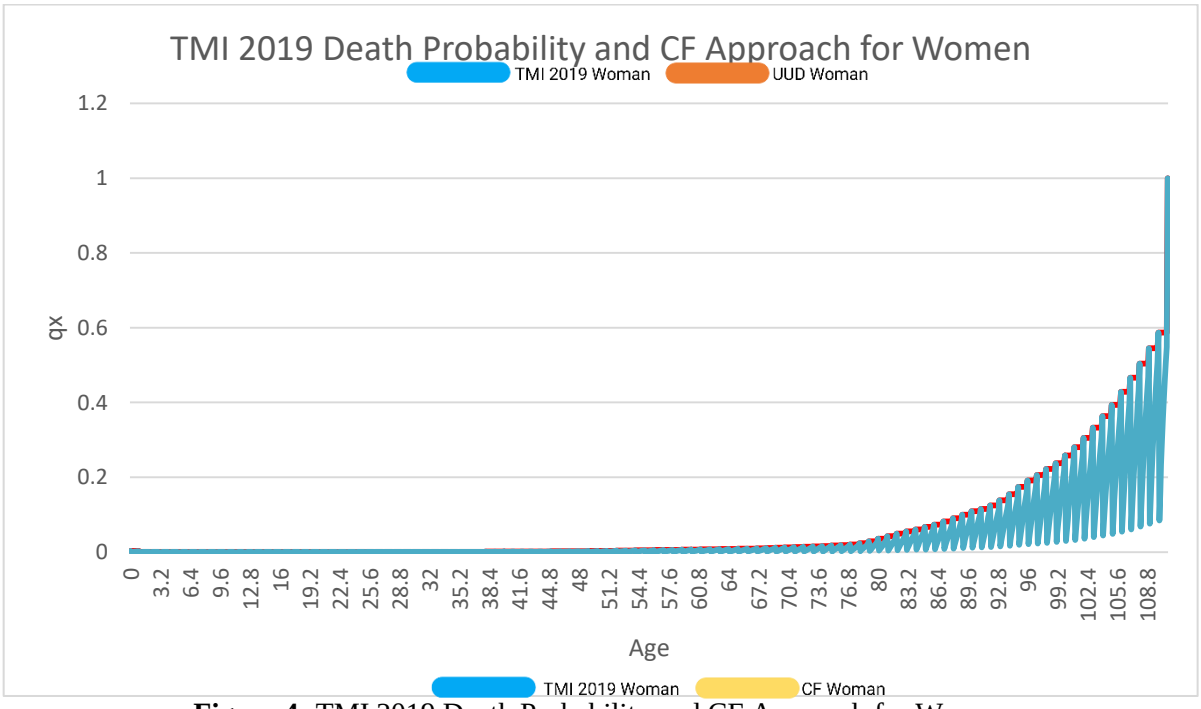

Figure 4: TMI 2019 Death Probability and CF Approach for Women

The four graphs above show relatively the same pattern. This shows that the 2019 TMI mortality probability with the UDD and CF approaches does not show significant differences for both men and women, so that both approaches can be used to calculate the probability of death at the 2019 TMI fractional age.

Figure 1 and Figure 2 provide graphs of the probability of dying at age $x + t$ or living to age $x + t$ with $0 < t < 1$ using the UDD and CF approaches at TMI 2019 for men. It can be seen that the probability of dying at age $x + t$ using the UDD approach is smaller than the CF approach. Significant differences in the calculation of fractional age with the UDD and CF approaches occur at the age of 101.1 to 110.9. This also happens in Figure 3 and Figure 4, namely the graph of the probability of dying at age $x + t$ with $0 < t < 1$ using the UDD and CF approaches in the 2019 TMI for women. The graphs in Figure 3 and Figure 4 show that the probability of dying at age $x + t$ using the UDD approach is smaller than the CF approach.

5. Conclusions and Recommendations

The conclusion in this discussion is the result of calculating the probability of dying at age $x + t$ or living to age $x + t$ with $0 < t < 1$ using the UDD and CF approaches in TMI 2019. It can be seen from the calculation results and graphic images that the probability of death in TMI 2019 with the UDD and CF approaches do not show significant differences for both men and women, so that both approaches can be used to calculate the probability of death at the age of the 2019 TMI fraction. In graphic images 1 and 2 of the 2019 TMI for men it states that the probability value die at age $x + t$ with $0 < t < 1$ using the UDD approach is smaller than the CF approach. This also happened in the calculation of graphs 3 and 4, namely the graph of the probability of dying at age $x + t$ with $0 < t < 1$ using the UDD and CF approaches in the 2019 TMI for women.

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Appendix

TMI 2019 Construction with the UDD Approach

Table 2: 2019 TMI and Adjustments (Complete)

x	q_x (TMI 2019)	q_x (UDD)	q_x (CF)	q_x (TMI 2019)	q_x (UDD)	q_x (CF)
		Male			Female	
0	0.00524	0.00524	0.005240	0.00266	0.00266	0.002660
0.1	-	0.000524	0.000525	-	0.000266	0.000266
0.2	-	0.001048	0.001050	-	0.000532	0.000533
0.3	-	0.001572	0.001575	-	0.000798	0.000799
0.4	-	0.002096	0.002099	-	0.001064	0.001065
0.5	-	0.00262	0.002623	-	0.00133	0.001331
0.6	-	0.003144	0.003147	-	0.001596	0.001597
0.7	-	0.003668	0.003671	-	0.001862	0.001863
0.8	-	0.004192	0.004194	-	0.002128	0.002129
0.9	-	0.004716	0.004717	-	0.002394	0.002394
1	0.00053	0.00053	0.000530	0.00041	0.00041	0.000410
1.1	-	0.000053	0.000053	-	0.000041	0.000041
1.2	-	0.000106	0.000106	-	0.000082	0.000082
1.3	-	0.000159	0.000159	-	0.000123	0.000123
1.4	-	0.000212	0.000212	-	0.000164	0.000164
1.5	-	0.000265	0.000265	-	0.000205	0.000205
1.6	-	0.000318	0.000318	-	0.000246	0.000246
1.7	-	0.000371	0.000371	-	0.000287	0.000287
1.8	-	0.000424	0.000424	-	0.000328	0.000328
1.9	-	0.000477	0.000477	-	0.000369	0.000369
2	0.00042	0.00042	0.000420	0.00031	0.00031	0.000310
2.1	-	0.000042	0.000042	-	0.000031	0.000031
2.2	-	0.000084	0.000084	-	0.000062	0.000062
2.3	-	0.000126	0.000126	-	0.000093	0.000093
2.4	-	0.000168	0.000168	-	0.000124	0.000124
2.5	-	0.00021	0.000210	-	0.000155	0.000155
2.6	-	0.000252	0.000252	-	0.000186	0.000186
2.7	-	0.000294	0.000294	-	0.000217	0.000217
2.8	-	0.000336	0.000336	-	0.000248	0.000248
2.9	-	0.000378	0.000378	-	0.000279	0.000279
3	0.00034	0.00034	0.000340	0.00024	0.00024	0.000240
3.1	-	0.000034	0.000034	-	0.000024	0.000024
3.2	-	0.000068	0.000068	-	0.000048	0.000048
3.3	-	0.000102	0.000102	-	0.000072	0.000072
3.4	-	0.000136	0.000136	-	0.000096	0.000096
3.5	-	0.00017	0.000170	-	0.00012	0.000120
3.6	-	0.000204	0.000204	-	0.000144	0.000144
3.7	-	0.000238	0.000238	-	0.000168	0.000168
3.8	-	0.000272	0.000272	-	0.000192	0.000192
3.9	-	0.000306	0.000306	-	0.000216	0.000216
4	0.00029	0.00029	0.000290	0.00021	0.00021	0.000210
4.1	-	0.000029	0.000029	-	0.000021	0.000021
4.2	-	0.000058	0.000058	-	0.000042	0.000042
4.3	-	0.000087	0.000087	-	0.000063	0.000063
4.4	-	0.000116	0.000116	-	0.000084	0.000084
4.5	-	0.000145	0.000145	-	0.000105	0.000105
4.6	-	0.000174	0.000174	-	0.000126	0.000126
4.7	-	0.000203	0.000203	-	0.000147	0.000147
4.8	-	0.000232	0.000232	-	0.000168	0.000168
4.9	-	0.000261	0.000261	-	0.000189	0.000189
5	0.00026	0.00026	0.000260	0.0002	0.0002	0.000200
5.1	-	0.000026	0.000026	-	0.00002	0.000020
5.2	-	0.000052	0.000052	-	0.00004	0.000040
5.3	-	0.000078	0.000078	-	0.00006	0.000060
5.4	-	0.000104	0.000104	-	0.00008	0.000080
5.5	-	0.00013	0.000130	-	0.0001	0.000100
5.6	-	0.000156	0.000156	-	0.00012	0.000120
5.7	-	0.000182	0.000182	-	0.00014	0.000140
5.8	-	0.000208	0.000208	-	0.00016	0.000160
5.9	-	0.000234	0.000234	-	0.00018	0.000180
6	0.00023	0.00023	0.000230	0.00022	0.00022	0.000220
6.1	-	0.000023	0.000023	-	0.000022	0.000022
6.2	-	0.000046	0.000046	-	0.000044	0.000044
6.3	-	0.000069	0.000069	-	0.000066	0.000066
6.4	-	0.000092	0.000092	-	0.000088	0.000088
6.5	-	0.000115	0.000115	-	0.00011	0.000110

6.6	-	0.000138	0.000138	-	0.000132	0.000132
6.7	-	0.000161	0.000161	-	0.000154	0.000154
6.8	-	0.000184	0.000184	-	0.000176	0.000176
6.9	-	0.000207	0.000207	-	0.000198	0.000198
7	0.00021	0.00021	0.000210	0.00023	0.00023	0.000230
7.1	-	0.000021	0.000021	-	0.000023	0.000023
7.2	-	0.000042	0.000042	-	0.000046	0.000046
7.3	-	0.000063	0.000063	-	0.000069	0.000069
7.4	-	0.000084	0.000084	-	0.000092	0.000092
7.5	-	0.000105	0.000105	-	0.000115	0.000115
7.6	-	0.000126	0.000126	-	0.000138	0.000138
7.7	-	0.000147	0.000147	-	0.000161	0.000161
7.8	-	0.000168	0.000168	-	0.000184	0.000184
7.9	-	0.000189	0.000189	-	0.000207	0.000207
8	0.0002	0.0002	0.000200	0.00022	0.00022	0.000220
8.1	-	0.00002	0.000020	-	0.000022	0.000022
8.2	-	0.00004	0.000040	-	0.000044	0.000044
8.3	-	0.00006	0.000060	-	0.000066	0.000066
8.4	-	0.00008	0.000080	-	0.000088	0.000088
8.5	-	0.0001	0.000100	-	0.00011	0.000110
8.6	-	0.00012	0.000120	-	0.000132	0.000132
8.7	-	0.00014	0.000140	-	0.000154	0.000154
8.8	-	0.00016	0.000160	-	0.000176	0.000176
8.9	-	0.00018	0.000180	-	0.000198	0.000198
9	0.0002	0.0002	0.000200	0.00021	0.00021	0.000210
9.1	-	0.00002	0.000020	-	0.000021	0.000021
9.2	-	0.00004	0.000040	-	0.000042	0.000042
9.3	-	0.00006	0.000060	-	0.000063	0.000063
9.4	-	0.00008	0.000080	-	0.000084	0.000084
9.5	-	0.0001	0.000100	-	0.000105	0.000105
9.6	-	0.00012	0.000120	-	0.000126	0.000126
9.7	-	0.00014	0.000140	-	0.000147	0.000147
9.8	-	0.00016	0.000160	-	0.000168	0.000168
9.9	-	0.00018	0.000180	-	0.000189	0.000189
10	0.00019	0.00019	0.000190	0.00019	0.00019	0.000190
10.1	-	0.000019	0.000019	-	0.000019	0.000019
10.2	-	0.000038	0.000038	-	0.000038	0.000038
10.3	-	0.000057	0.000057	-	0.000057	0.000057
10.4	-	0.000076	0.000076	-	0.000076	0.000076
10.5	-	0.000095	0.000095	-	0.000095	0.000095
10.6	-	0.000114	0.000114	-	0.000114	0.000114
10.7	-	0.000133	0.000133	-	0.000133	0.000133
10.8	-	0.000152	0.000152	-	0.000152	0.000152
10.9	-	0.000171	0.000171	-	0.000171	0.000171
11	0.00019	0.00019	0.000190	0.00018	0.00018	0.000180
11.1	-	0.000019	0.000019	-	0.000018	0.000018
11.2	-	0.000038	0.000038	-	0.000036	0.000036
11.3	-	0.000057	0.000057	-	0.000054	0.000054
11.4	-	0.000076	0.000076	-	0.000072	0.000072
11.5	-	0.000095	0.000095	-	0.00009	0.000090
11.6	-	0.000114	0.000114	-	0.000108	0.000108
11.7	-	0.000133	0.000133	-	0.000126	0.000126
11.8	-	0.000152	0.000152	-	0.000144	0.000144
11.9	-	0.000171	0.000171	-	0.000162	0.000162
12	0.00019	0.00019	0.000190	0.0002	0.0002	0.000200
12.1	-	0.000019	0.000019	-	0.00002	0.000020
12.2	-	0.000038	0.000038	-	0.00004	0.000040
12.3	-	0.000057	0.000057	-	0.00006	0.000060
12.4	-	0.000076	0.000076	-	0.00008	0.000080
12.5	-	0.000095	0.000095	-	0.0001	0.000100
12.6	-	0.000114	0.000114	-	0.00012	0.000120
12.7	-	0.000133	0.000133	-	0.00014	0.000140
12.8	-	0.000152	0.000152	-	0.00016	0.000160
12.9	-	0.000171	0.000171	-	0.00018	0.000180
13	0.0002	0.0002	0.000200	0.00022	0.00022	0.000220
13.1	-	0.00002	0.000020	-	0.000022	0.000022
13.2	-	0.00004	0.000040	-	0.000044	0.000044
13.3	-	0.00006	0.000060	-	0.000066	0.000066
13.4	-	0.00008	0.000080	-	0.000088	0.000088
13.5	-	0.0001	0.000100	-	0.00011	0.000110
13.6	-	0.00012	0.000120	-	0.000132	0.000132
13.7	-	0.00014	0.000140	-	0.000154	0.000154
13.8	-	0.00016	0.000160	-	0.000176	0.000176
13.9	-	0.00018	0.000180	-	0.000198	0.000198

14	0.00023	0.00023	0.000230	0.00023	0.00023	0.000230
14.1	-	0.000023	0.000023	-	0.000023	0.000023
14.2	-	0.000046	0.000046	-	0.000046	0.000046
14.3	-	0.000069	0.000069	-	0.000069	0.000069
14.4	-	0.000092	0.000092	-	0.000092	0.000092
14.5	-	0.000115	0.000115	-	0.000115	0.000115
14.6	-	0.000138	0.000138	-	0.000138	0.000138
14.7	-	0.000161	0.000161	-	0.000161	0.000161
14.8	-	0.000184	0.000184	-	0.000184	0.000184
14.9	-	0.000207	0.000207	-	0.000207	0.000207
15	0.00027	0.00027	0.000270	0.00023	0.00023	0.000230
15.1	-	0.000027	0.000027	-	0.000023	0.000023
15.2	-	0.000054	0.000054	-	0.000046	0.000046
15.3	-	0.000081	0.000081	-	0.000069	0.000069
15.4	-	0.000108	0.000108	-	0.000092	0.000092
15.5	-	0.000135	0.000135	-	0.000115	0.000115
15.6	-	0.000162	0.000162	-	0.000138	0.000138
15.7	-	0.000189	0.000189	-	0.000161	0.000161
15.8	-	0.000216	0.000216	-	0.000184	0.000184
15.9	-	0.000243	0.000243	-	0.000207	0.000207
16	0.00031	0.00031	0.000310	0.00024	0.00024	0.000240
16.1	-	0.000031	0.000031	-	0.000024	0.000024
16.2	-	0.000062	0.000062	-	0.000048	0.000048
16.3	-	0.000093	0.000093	-	0.000072	0.000072
16.4	-	0.000124	0.000124	-	0.000096	0.000096
16.5	-	0.000155	0.000155	-	0.00012	0.000120
16.6	-	0.000186	0.000186	-	0.000144	0.000144
16.7	-	0.000217	0.000217	-	0.000168	0.000168
16.8	-	0.000248	0.000248	-	0.000192	0.000192
16.9	-	0.000279	0.000279	-	0.000216	0.000216
17	0.00037	0.00037	0.000370	0.00024	0.00024	0.000240
17.1	-	0.000037	0.000037	-	0.000024	0.000024
17.2	-	0.000074	0.000074	-	0.000048	0.000048
17.3	-	0.000111	0.000111	-	0.000072	0.000072
17.4	-	0.000148	0.000148	-	0.000096	0.000096
17.5	-	0.000185	0.000185	-	0.00012	0.000120
17.6	-	0.000222	0.000222	-	0.000144	0.000144
17.7	-	0.000259	0.000259	-	0.000168	0.000168
17.8	-	0.000296	0.000296	-	0.000192	0.000192
17.9	-	0.000333	0.000333	-	0.000216	0.000216
18	0.00043	0.00043	0.000430	0.00025	0.00025	0.000250
18.1	-	0.000043	0.000043	-	0.000025	0.000025
18.2	-	0.000086	0.000086	-	0.00005	0.000050
18.3	-	0.000129	0.000129	-	0.000075	0.000075
18.4	-	0.000172	0.000172	-	0.0001	0.000100
18.5	-	0.000215	0.000215	-	0.000125	0.000125
18.6	-	0.000258	0.000258	-	0.00015	0.000150
18.7	-	0.000301	0.000301	-	0.000175	0.000175
18.8	-	0.000344	0.000344	-	0.0002	0.000200
18.9	-	0.000387	0.000387	-	0.000225	0.000225
19	0.00047	0.00047	0.000470	0.00026	0.00026	0.000260
19.1	-	0.000047	0.000047	-	0.000026	0.000026
19.2	-	0.000094	0.000094	-	0.000052	0.000052
19.3	-	0.000141	0.000141	-	0.000078	0.000078
19.4	-	0.000188	0.000188	-	0.000104	0.000104
19.5	-	0.000235	0.000235	-	0.00013	0.000130
19.6	-	0.000282	0.000282	-	0.000156	0.000156
19.7	-	0.000329	0.000329	-	0.000182	0.000182
19.8	-	0.000376	0.000376	-	0.000208	0.000208
19.9	-	0.000423	0.000423	-	0.000234	0.000234
20	0.00049	0.00049	0.000490	0.00027	0.00027	0.000270
20.1	-	0.000049	0.000049	-	0.000027	0.000027
20.2	-	0.000098	0.000098	-	0.000054	0.000054
20.3	-	0.000147	0.000147	-	0.000081	0.000081
20.4	-	0.000196	0.000196	-	0.000108	0.000108
20.5	-	0.000245	0.000245	-	0.000135	0.000135
20.6	-	0.000294	0.000294	-	0.000162	0.000162
20.7	-	0.000343	0.000343	-	0.000189	0.000189
20.8	-	0.000392	0.000392	-	0.000216	0.000216
20.9	-	0.000441	0.000441	-	0.000243	0.000243
21	0.00049	0.00049	0.000490	0.00028	0.00028	0.000280
21.1	-	0.000049	0.000049	-	0.000028	0.000028
21.2	-	0.000098	0.000098	-	0.000056	0.000056
21.3	-	0.000147	0.000147	-	0.000084	0.000084

21.4	-	0.000196	0.000196	-	0.000112	0.000112
21.5	-	0.000245	0.000245	-	0.00014	0.000140
21.6	-	0.000294	0.000294	-	0.000168	0.000168
21.7	-	0.000343	0.000343	-	0.000196	0.000196
21.8	-	0.000392	0.000392	-	0.000224	0.000224
21.9	-	0.000441	0.000441	-	0.000252	0.000252
22	0.00049	0.00049	0.000490	0.0003	0.0003	0.000300
22.1	-	0.000049	0.000049	-	0.00003	0.000030
22.2	-	0.000098	0.000098	-	0.00006	0.000060
22.3	-	0.000147	0.000147	-	0.00009	0.000090
22.4	-	0.000196	0.000196	-	0.00012	0.000120
22.5	-	0.000245	0.000245	-	0.00015	0.000150
22.6	-	0.000294	0.000294	-	0.00018	0.000180
22.7	-	0.000343	0.000343	-	0.00021	0.000210
22.8	-	0.000392	0.000392	-	0.00024	0.000240
22.9	-	0.000441	0.000441	-	0.00027	0.000270
23	0.00049	0.00049	0.000490	0.00032	0.00032	0.000320
23.1	-	0.000049	0.000049	-	0.000032	0.000032
23.2	-	0.000098	0.000098	-	0.000064	0.000064
23.3	-	0.000147	0.000147	-	0.000096	0.000096
23.4	-	0.000196	0.000196	-	0.000128	0.000128
23.5	-	0.000245	0.000245	-	0.00016	0.000160
23.6	-	0.000294	0.000294	-	0.000192	0.000192
23.7	-	0.000343	0.000343	-	0.000224	0.000224
23.8	-	0.000392	0.000392	-	0.000256	0.000256
23.9	-	0.000441	0.000441	-	0.000288	0.000288
24	0.0005	0.0005	0.000500	0.00034	0.00034	0.000340
24.1	-	0.00005	0.000050	-	0.000034	0.000034
24.2	-	0.0001	0.000100	-	0.000068	0.000068
24.3	-	0.00015	0.000150	-	0.000102	0.000102
24.4	-	0.0002	0.000200	-	0.000136	0.000136
24.5	-	0.00025	0.000250	-	0.00017	0.000170
24.6	-	0.0003	0.000300	-	0.000204	0.000204
24.7	-	0.00035	0.000350	-	0.000238	0.000238
24.8	-	0.0004	0.000400	-	0.000272	0.000272
24.9	-	0.00045	0.000450	-	0.000306	0.000306
25	0.00052	0.00052	0.000520	0.00038	0.00038	0.000380
25.1	-	0.000052	0.000052	-	0.000038	0.000038
25.2	-	0.000104	0.000104	-	0.000076	0.000076
25.3	-	0.000156	0.000156	-	0.000114	0.000114
25.4	-	0.000208	0.000208	-	0.000152	0.000152
25.5	-	0.00026	0.000260	-	0.00019	0.000190
25.6	-	0.000312	0.000312	-	0.000228	0.000228
25.7	-	0.000364	0.000364	-	0.000266	0.000266
25.8	-	0.000416	0.000416	-	0.000304	0.000304
25.9	-	0.000468	0.000468	-	0.000342	0.000342
26	0.00055	0.00055	0.000550	0.00042	0.00042	0.000420
26.1	-	0.000055	0.000055	-	0.000042	0.000042
26.2	-	0.00011	0.000110	-	0.000084	0.000084
26.3	-	0.000165	0.000165	-	0.000126	0.000126
26.4	-	0.00022	0.000220	-	0.000168	0.000168
26.5	-	0.000275	0.000275	-	0.00021	0.000210
26.6	-	0.00033	0.000330	-	0.000252	0.000252
26.7	-	0.000385	0.000385	-	0.000294	0.000294
26.8	-	0.00044	0.000440	-	0.000336	0.000336
26.9	-	0.000495	0.000495	-	0.000378	0.000378
27	0.0006	0.0006	0.000600	0.00046	0.00046	0.000460
27.1	-	0.00006	0.000060	-	0.000046	0.000046
27.2	-	0.00012	0.000120	-	0.000092	0.000092
27.3	-	0.00018	0.000180	-	0.000138	0.000138
27.4	-	0.00024	0.000240	-	0.000184	0.000184
27.5	-	0.0003	0.000300	-	0.00023	0.000230
27.6	-	0.00036	0.000360	-	0.000276	0.000276
27.7	-	0.00042	0.000420	-	0.000322	0.000322
27.8	-	0.00048	0.000480	-	0.000368	0.000368
27.9	-	0.00054	0.000540	-	0.000414	0.000414
28	0.00065	0.00065	0.00065	0.00049	0.00049	0.00049
28.1	-	0.000065	0.000065	-	0.000049	0.000049
28.2	-	0.00013	0.00013	-	0.000098	0.000098
28.3	-	0.000195	0.000195	-	0.000098	0.000147
28.4	-	0.00026	0.00026	-	0.000196	0.000196
28.5	-	0.000325	0.000325	-	0.000245	0.000245
28.6	-	0.00039	0.00039	-	0.000294	0.000294
28.7	-	0.000455	0.000455	-	0.000343	0.000343

28.8	-	0.00052	0.00052	-	0.000392	0.000392
28.9	-	0.000585	0.000585	-	0.000441	0.000441
29	0.0007	0.0007	0.0007	0.00052	0.00052	0.00052
29.1	-	0.00007	0.00007	-	0.000052	0.000052
29.2	-	0.00014	0.00014	-	0.000104	0.000104
29.3	-	0.00021	0.00021	-	0.000156	0.000156
29.4	-	0.00028	0.00028	-	0.000208	0.000208
29.5	-	0.00035	0.00035	-	0.00026	0.00026
29.6	-	0.00042	0.00042	-	0.000312	0.000312
29.7	-	0.00049	0.00049	-	0.000364	0.000364
29.8	-	0.00056	0.00056	-	0.000416	0.000416
29.9	-	0.00063	0.00063	-	0.000468	0.000468
30	0.00075	0.00075	0.00075	0.00056	0.00056	0.00056
30.1	-	0.000075	0.000075	-	0.000056	0.000056
30.2	-	0.00015	0.00015	-	0.000112	0.000112
30.3	-	0.000225	0.000225	-	0.000168	0.000168
30.4	-	0.0003	0.0003	-	0.000224	0.000224
30.5	-	0.000375	0.000375	-	0.00028	0.00028
30.6	-	0.00045	0.00045	-	0.000336	0.000336
30.7	-	0.000525	0.000525	-	0.0103152	0.000392
30.8	-	0.0006	0.0006	-	0.000448	0.000448
30.9	-	0.000675	0.000675	-	0.000504	0.000504
31	0.00081	0.00081	0.00081	0.0006	0.0006	0.0006
31.1	-	0.000081	0.000081	-	0.00006	0.00006
31.2	-	0.000162	0.000162	-	0.00012	0.00012
31.3	-	0.000243	0.000243	-	0.00018	0.00018
31.4	-	0.000324	0.000324	-	0.00024	0.00024
31.5	-	0.000405	0.000405	-	0.0003	0.0003
31.6	-	0.000486	0.000486	-	0.00036	0.00036
31.7	-	0.000567	0.000567	-	0.00042	0.00042
31.8	-	0.000648	0.000648	-	0.00048	0.00048
31.9	-	0.000729	0.000729	-	0.00054	0.00054
32	0.00087	0.00087	0.00087	0.00064	0.00064	0.00064
32.1	-	0.000087	0.000087	-	0.000064	0.000064
32.2	-	0.000174	0.000174	-	0.000128	0.000128
32.3	-	0.000261	0.000261	-	0.000192	0.000192
32.4	-	0.000348	0.000348	-	0.000256	0.000256
32.5	-	0.000435	0.000435	-	0.00032	0.00032
32.6	-	0.000522	0.000522	-	0.000384	0.000384
32.7	-	0.000609	0.000609	-	0.000448	0.000448
32.8	-	0.000696	0.000696	-	0.000512	0.000512
32.9	-	0.000783	0.000783	-	0.000576	0.000576
33	0.00093	0.00093	0.00093	0.00069	0.00069	0.00069
33.1	-	0.000093	0.000093	-	0.000069	0.000069
33.2	-	0.000186	0.000186	-	0.000138	0.000138
33.3	-	0.000279	0.000279	-	0.000207	0.000207
33.4	-	0.000372	0.000372	-	0.000276	0.000276
33.5	-	0.000465	0.000465	-	0.000345	0.000345
33.6	-	0.000558	0.000558	-	0.000414	0.000414
33.7	-	0.000651	0.000651	-	0.000483	0.000483
33.8	-	0.000744	0.000744	-	0.000552	0.000552
33.9	-	0.000837	0.000837	-	0.000621	0.000621
34	0.00099	0.00099	0.00099	0.00074	0.00074	0.00074
34.1	-	0.000099	0.000099	-	0.000074	0.000074
34.2	-	0.000198	0.000198	-	0.0000148	0.000148
34.3	-	0.000297	0.000297	-	0.000222	0.000222
34.4	-	0.000396	0.000396	-	0.000296	0.000296
34.5	-	0.000495	0.000495	-	0.00037	0.00037
34.6	-	0.000594	0.000594	-	0.000444	0.000444
34.7	-	0.000693	0.000693	-	0.000518	0.000518
34.8	-	0.000792	0.000792	-	0.000592	0.000592
34.9	-	0.000891	0.000891	-	0.0206608	0.000666
35	0.00107	0.00107	0.00107	0.0008	0.0008	0.0008
35.1	-	0.000107	0.000107	-	0.00008	0.00008
35.2	-	0.000214	0.000214	-	0.00016	0.00016
35.3	-	0.000321	0.000321	-	0.00024	0.00024
35.4	-	0.000428	0.000428	-	0.00032	0.00032
35.5	-	0.000535	0.000535	-	0.0004	0.0004
35.6	-	0.000642	0.000642	-	0.00048	0.00048
35.7	-	0.000749	0.000749	-	0.00056	0.00056
35.8	-	0.000856	0.000856	-	0.00064	0.00064
35.9	-	0.000963	0.000963	-	0.00072	0.00072
36	0.00116	0.00116	0.00116	0.00086	0.00086	0.00086
36.1	-	0.000116	0.000116	-	0.000086	0.000086

36.2	-	0.000232	0.000232	-	0.000172	0.000172
36.3	-	0.000348	0.000348	-	0.000258	0.000258
36.4	-	0.000464	0.000464	-	0.000344	0.000344
36.5	-	0.00058	0.00058	-	0.00043	0.00043
36.6	-	0.000696	0.000696	-	0.000516	0.000516
36.7	-	0.000812	0.000812	-	0.000602	0.000602
36.8	-	0.000928	0.000928	-	0.000688	0.000688
36.9	-	0.01044	0.001044	-	0.000774	0.000774
37	0.00127	0.00127	0.00127	0.00093	0.00093	0.00093
37.1	-	0.000127	0.000127	-	0.000093	0.000093
37.2	-	0.000254	0.000254	-	0.000186	0.000186
37.3	-	0.000381	0.000381	-	0.000279	0.000279
37.4	-	0.000508	0.000508	-	0.000372	0.000372
37.5	-	0.000635	0.000635	-	0.000465	0.000465
37.6	-	0.000762	0.000762	-	0.000558	0.000558
37.7	-	0.000889	0.000889	-	0.000651	0.000651
37.8	-	0.001016	0.001016	-	0.000744	0.000744
37.9	-	0.001143	0.001143	-	0.000837	0.000837
38	0.00139	0.00139	0.00139	0.001	0.001	0.001
38.1	-	0.000139	0.000139	-	0.0001	0.0001
38.2	-	0.000278	0.000278	-	0.0002	0.0002
38.3	-	0.000417	0.000417	-	0.0003	0.0003
38.4	-	0.000556	0.000556	-	0.0004	0.0004
38.5	-	0.000695	0.000695	-	0.0005	0.0005
38.6	-	0.000834	0.000834	-	0.0006	0.0006
38.7	-	0.000973	0.000973	-	0.0007	0.0007
38.8	-	0.001112	0.001112	-	0.0008	0.0008
38.9	-	0.001251	0.001251	-	0.0009	0.0009
39	0.00155	0.00155	0.00155	0.00108	0.00108	0.00108
39.1	-	0.000155	0.000155	-	0.000108	0.000108
39.2	-	0.00031	0.00031	-	0.000216	0.000216
39.3	-	0.000465	0.000465	-	0.000324	0.000324
39.4	-	0.00062	0.00062	-	0.000432	0.000432
39.5	-	0.000775	0.000775	-	0.00054	0.00054
39.6	-	0.00093	0.00093	-	0.000648	0.000648
39.7	-	0.001085	0.001085	-	0.000756	0.000756
39.8	-	0.00124	0.00124	-	0.000864	0.000864
39.9	-	0.001395	0.001395	-	0.000972	0.000972
40	0.00173	0.00173	0.00173	0.00118	0.00118	0.00118
40.1	-	0.000173	0.000173	-	0.000118	0.000118
40.2	-	0.000346	0.000346	-	0.000236	0.000236
40.3	-	0.000519	0.000519	-	0.000354	0.000354
40.4	-	0.000692	0.000692	-	0.000472	0.000472
40.5	-	0.000865	0.000865	-	0.00059	0.00059
40.6	-	0.001038	0.001038	-	0.000708	0.000708
40.7	-	0.001211	0.001211	-	0.000826	0.000826
40.8	-	0.001384	0.001384	-	0.000944	0.000944
40.9	-	0.001557	0.001557	-	0.001062	0.001062
41	0.00193	0.00193	0.00193	0.00128	0.00128	0.00128
41.1	-	0.000193	0.000193	-	0.000128	0.000128
41.2	-	0.000386	0.000386	-	0.000256	0.000256
41.3	-	0.000579	0.000579	-	0.000384	0.000384
41.4	-	0.000772	0.000772	-	0.000512	0.000512
41.5	-	0.000965	0.000965	-	0.00064	0.00064
41.6	-	0.001158	0.001158	-	0.000768	0.000768
41.7	-	0.001351	0.001351	-	0.000896	0.000896
41.8	-	0.001544	0.001544	-	0.001024	0.001024
41.9	-	0.001737	0.001737	-	0.001152	0.001152
42	0.00216	0.00216	0.00216	0.00141	0.00141	0.00141
42.1	-	0.000216	0.000216	-	0.000141	0.000141
42.2	-	0.000432	0.000432	-	0.000282	0.000282
42.3	-	0.000648	0.000648	-	0.000423	0.000423
42.4	-	0.000864	0.000865	-	0.000564	0.000564
42.5	-	0.00108	0.001081	-	0.000705	0.000705
42.6	-	0.001296	0.001297	-	0.000846	0.000846
42.7	-	0.001512	0.001512	-	0.000987	0.000987
42.8	-	0.001728	0.001728	-	0.001128	0.001128
42.9	-	0.001944	0.001944	-	0.001269	0.001269
43	0.00241	0.00241	0.00241	0.00154	0.00154	0.00154
43.1	-	0.000241	0.000241	-	0.000154	0.000154
43.2	-	0.000482	0.000482	-	0.000308	0.000308
43.3	-	0.000723	0.000724	-	0.000462	0.000462
43.4	-	0.000964	0.000965	-	0.000616	0.000616
43.5	-	0.001205	0.001206	-	0.00077	0.00077

43.6	-	0.001446	0.001447	-	0.000924	0.000924
43.7	-	0.001687	0.001688	-	0.001078	0.001078
43.8	-	0.001928	0.001928	-	0.001232	0.001232
43.9	-	0.002169	0.002169	-	0.001386	0.001386
44	0.0027	0.0027	0.0027	0.00169	0.00169	0.00169
44.1	-	0.00027	0.00027	-	0.000169	0.000169
44.2	-	0.00054	0.000541	-	0.000338	0.000338
44.3	-	0.00081	0.000811	-	0.000507	0.000507
44.4	-	0.00108	0.001081	-	0.000676	0.000676
44.5	-	0.00135	0.001351	-	0.000845	0.000845
44.6	-	0.00162	0.001621	-	0.001014	0.001014
44.7	-	0.00189	0.001891	-	0.001183	0.001183
44.8	-	0.00216	0.002161	-	0.001352	0.001352
44.9	-	0.00243	0.00243	-	0.001521	0.001521
45	0.00302	0.00302	0.00302	0.00187	0.00187	0.00187
45.1	-	0.000302	0.000302	-	0.000187	0.000187
45.2	-	0.000604	0.000605	-	0.000374	0.000374
45.3	-	0.000906	0.000907	-	0.000561	0.000561
45.4	-	0.001208	0.001209	-	0.000748	0.000748
45.5	-	0.00151	0.001511	-	0.000935	0.000935
45.6	-	0.001812	0.001813	-	0.001122	0.001122
45.7	-	0.002114	0.002115	-	0.001309	0.001309
45.8	-	0.002416	0.002417	-	0.001496	0.001496
45.9	-	0.002718	0.002718	-	0.001683	0.001683
46	0.00338	0.00338	0.00338	0.00209	0.00209	0.00209
46.1	-	0.000338	0.000339	-	0.000209	0.000209
46.2	-	0.000676	0.000677	-	0.000418	0.000418
46.3	-	0.001014	0.001015	-	0.000627	0.000627
46.4	-	0.001352	0.001353	-	0.000836	0.000837
46.5	-	0.00169	0.001691	-	0.001045	0.001046
46.6	-	0.002028	0.002029	-	0.001254	0.001255
46.7	-	0.002366	0.002367	-	0.001463	0.001463
46.8	-	0.002704	0.002705	-	0.001672	0.001672
46.9	-	0.003042	0.003043	-	0.001881	0.001881
47	0.00377	0.00377	0.00377	0.0023	0.0023	0.0023
47.1	-	0.000377	0.000378	-	0.00023	0.00023
47.2	-	0.000754	0.000755	-	0.00046	0.00046
47.3	-	0.001131	0.001132	-	0.00069	0.000691
47.4	-	0.001508	0.00151	-	0.00092	0.000921
47.5	-	0.001885	0.001887	-	0.00115	0.001151
47.6	-	0.002262	0.002264	-	0.00138	0.001381
47.7	-	0.002639	0.00264	-	0.00161	0.001611
47.8	-	0.003016	0.003017	-	0.00184	0.00184
47.9	-	0.003393	0.003394	-	0.00207	0.00207
48	0.00418	0.00418	0.00418	0.00253	0.00253	0.00253
48.1	-	0.000418	0.000419	-	0.000253	0.000253
48.2	-	0.000836	0.000837	-	0.000506	0.000507
48.3	-	0.001254	0.001256	-	0.000759	0.00076
48.4	-	0.001672	0.001674	-	0.001012	0.001013
48.5	-	0.00209	0.002092	-	0.001265	0.001266
48.6	-	0.002508	0.00251	-	0.001518	0.001519
48.7	-	0.002926	0.002928	-	0.001771	0.001772
48.8	-	0.003344	0.003345	-	0.002024	0.002025
48.9	-	0.003762	0.003763	-	0.002277	0.002277
49	0.00461	0.00461	0.00461	0.00277	0.00277	0.00277
49.1	-	0.000461	0.000462	-	0.000277	0.000277
49.2	-	0.000922	0.000924	-	0.000554	0.000555
49.3	-	0.001383	0.001385	-	0.000831	0.000832
49.4	-	0.001844	0.001847	-	0.001108	0.001109
49.5	-	0.002305	0.002308	-	0.001385	0.001386
49.6	-	0.002766	0.002769	-	0.001662	0.001663
49.7	-	0.003227	0.00226	-	0.001939	0.00194
49.8	-	0.003688	0.002951	-	0.002216	0.002217
49.9	-	0.004149	0.003735	-	0.002493	0.002493
50	0.00508	0.00508	0.00508	0.00305	0.00305	0.00305
50.1	-	0.000508	0.000509	-	0.000305	0.000305
50.2	-	0.001016	0.001018	-	0.00061	0.000611
50.3	-	0.001524	0.001527	-	0.000915	0.000916
50.4	-	0.002032	0.002035	-	0.00122	0.001221
50.5	-	0.00254	0.002543	-	0.001525	0.001526
50.6	-	0.003048	0.003051	-	0.00183	0.001831
50.7	-	0.003556	0.003559	-	0.002135	0.002136
50.8	-	0.004064	0.004066	-	0.00244	0.002441
50.9	-	0.004572	0.004573	-	0.002745	0.002745

51	0.00556	0.00556	0.00556	0.00335	0.00335	0.00335
51.1	-	0.000556	0.000557	-	0.000335	0.000336
51.2	-	0.001112	0.001114	-	0.00067	0.000671
51.3	-	0.001668	0.001671	-	0.001005	0.001006
51.4	-	0.002224	0.002228	-	0.00134	0.001341
51.5	-	0.00278	0.002784	-	0.001675	0.001676
51.6	-	0.003336	0.00334	-	0.00201	0.002011
51.7	-	0.003892	0.003895	-	0.002345	0.002346
51.8	-	0.004448	0.00445	-	0.00268	0.002681
51.9	-	0.005004	0.005005	-	0.003015	0.003016
52	0.00609	0.00609	0.00609	0.00368	0.00368	0.00368
52.1	-	0.000609	0.000611	-	0.000368	0.000369
52.2	-	0.001218	0.001221	-	0.000736	0.000737
52.3	-	0.001827	0.001831	-	0.001104	0.001105
52.4	-	0.002436	0.00244	-	0.001472	0.001474
52.5	-	0.003045	0.00305	-	0.00184	0.001842
52.6	-	0.003654	0.003658	-	0.002208	0.00221
52.7	-	0.004263	0.004267	-	0.002576	0.002577
52.8	-	0.004872	0.004875	-	0.002944	0.002945
52.9	-	0.005481	0.005483	-	0.003312	0.003313
53	0.00667	0.00667	0.00667	0.00403	0.00403	0.00403
53.1	-	0.000667	0.000669	-	0.000403	0.000404
53.2	-	0.001334	0.001338	-	0.000806	0.000807
53.3	-	0.002001	0.002006	-	0.001209	0.001211
53.4	-	0.002668	0.002673	-	0.001612	0.001614
53.5	-	0.003335	0.003341	-	0.002015	0.002017
53.6	-	0.004002	0.004007	-	0.002418	0.00242
53.7	-	0.004669	0.004674	-	0.002821	0.002823
53.8	-	0.005336	0.00534	-	0.003224	0.003225
53.9	-	0.006003	0.006005	-	0.003627	0.003628
54	0.00727	0.00727	0.00727	0.00442	0.00442	0.00442
54.1	-	0.000727	0.000729	-	0.000442	0.000443
54.2	-	0.001454	0.001458	-	0.000884	0.000886
54.3	-	0.002181	0.002187	-	0.001326	0.001328
54.4	-	0.002908	0.002914	-	0.001768	0.00177
54.5	-	0.003635	0.003642	-	0.00221	0.002212
54.6	-	0.004362	0.004368	-	0.0001008	0.002654
54.7	-	0.005089	0.005095	-	0.003094	0.003096
54.8	-	0.005816	0.00582	-	0.003536	0.003538
54.9	-	0.006543	0.006545	-	0.003978	0.003979
55	0.00789	0.00789	0.00789	0.00483	0.00483	0.00483
55.1	-	0.000789	0.000792	-	0.000483	0.000484
55.2	-	0.001578	0.001583	-	0.000966	0.000968
55.3	-	0.002367	0.002374	-	0.001449	0.001451
55.4	-	0.003156	0.003164	-	0.001932	0.001935
55.5	-	0.003945	0.003953	-	0.002415	0.002418
55.6	-	0.004734	0.004741	-	0.002898	0.002901
55.7	-	0.005523	0.00553	-	0.003381	0.003383
55.8	-	0.006312	0.006317	-	0.003864	0.000179
55.9	-	0.007101	0.007104	-	0.004347	0.004348
56	0.00847	0.00847	0.00847	0.00524	0.00524	0.00524
56.1	-	0.00085	0.00085	-	0.00052	0.00053
56.2	-	0.00169	0.00170	-	0.00105	0.00105
56.3	-	0.00254	0.00255	-	0.00157	0.00157
56.4	-	0.00339	0.00340	-	0.00210	0.00210
56.5	-	0.00424	0.00424	-	0.00262	0.00262
56.6	-	0.00508	0.00509	-	0.00314	0.00315
56.7	-	0.00593	0.00594	-	0.00367	0.00367
56.8	-	0.00678	0.00678	-	0.00419	0.00419
56.9	-	0.00762	0.00763	-	0.00472	0.00472
57	0.00898	0.00898	0.00898	0.00563	0.00563	0.00563
57.1	-	0.00090	0.00090	-	0.00056	0.00056
57.2	-	0.00180	0.00180	-	0.00113	0.00113
57.3	-	0.00269	0.00270	-	0.00169	0.00169
57.4	-	0.00359	0.00360	-	0.00225	0.00226
57.5	-	0.00449	0.00450	-	0.00282	0.00282
57.6	-	0.00539	0.00540	-	0.00338	0.00338
57.7	-	0.00629	0.00629	-	0.00394	0.00394
57.8	-	0.00718	0.00719	-	0.00450	0.00451
57.9	-	0.00808	0.00809	-	0.00507	0.00507
58	0.00939	0.00939	0.00939	0.00601	0.00601	0.00601
58.1	-	0.00094	0.00094	-	0.00060	0.00060
58.2	-	0.00188	0.00189	-	0.00120	0.00120
58.3	-	0.00282	0.00283	-	0.00180	0.00181

58.4	-	0.00376	0.00377	-	0.00240	0.00241
58.5	-	0.00470	0.00471	-	0.00301	0.00301
58.6	-	0.00563	0.00564	-	0.00361	0.00361
58.7	-	0.00657	0.00658	-	0.00421	0.00421
58.8	-	0.00751	0.00752	-	0.00481	0.00481
58.9	-	0.00845	0.00845	-	0.00541	0.00541
59	0.00971	0.00971	0.00971	0.00636	0.00636	0.00636
59.1	-	0.00097	0.00098	-	0.00064	0.00064
59.2	-	0.00194	0.00195	-	0.00127	0.00128
59.3	-	0.00291	0.00292	-	0.00191	0.00191
59.4	-	0.00388	0.00390	-	0.00254	0.00255
59.5	-	0.00486	0.00487	-	0.00318	0.00319
59.6	-	0.00583	0.00584	-	0.00382	0.00382
59.7	-	0.00680	0.00681	-	0.00445	0.00446
59.8	-	0.00777	0.00778	-	0.00509	0.00509
59.9	-	0.00874	0.00874	-	0.00572	0.00573
60	0.00999	0.00999	0.00999	0.00671	0.00671	0.00671
60.1	-	0.00100	0.00100	-	0.00067	0.00067
60.2	-	0.00200	0.00201	-	0.00134	0.00135
60.3	-	0.00300	0.00301	-	0.00201	0.00202
60.4	-	0.00400	0.00401	-	0.00268	0.00269
60.5	-	0.00500	0.00501	-	0.00336	0.00336
60.6	-	0.00599	0.00601	-	0.00403	0.00403
60.7	-	0.00699	0.00700	-	0.00470	0.00470
60.8	-	0.00799	0.00800	-	0.00537	0.00537
60.9	-	0.00899	0.00900	-	0.00604	0.00604
61	0.01024	0.01024	0.01024	0.00707	0.00707	0.00707
61.1	-	0.00102	0.00103	-	0.00071	0.00071
61.2	-	0.00205	0.00206	-	0.00141	0.00142
61.3	-	0.00307	0.00308	-	0.00212	0.00213
61.4	-	0.00410	0.00411	-	0.00283	0.00283
61.5	-	0.00512	0.00513	-	0.00354	0.00354
61.6	-	0.00614	0.00616	-	0.00424	0.00425
61.7	-	0.00717	0.00718	-	0.00495	0.00495
61.8	-	0.00819	0.00820	-	0.00566	0.00566
61.9	-	0.00922	0.00922	-	0.00636	0.00637
62	0.01046	0.01046	0.01046	0.00746	0.00746	0.00746
62.1	-	0.00105	0.00105	-	0.00075	0.00075
62.2	-	0.00209	0.00210	-	0.00149	0.00150
62.3	-	0.00314	0.00315	-	0.00224	0.00224
62.4	-	0.00418	0.00420	-	0.00298	0.00299
62.5	-	0.00523	0.00524	-	0.00373	0.00374
62.6	-	0.00628	0.00629	-	0.00448	0.00448
62.7	-	0.00732	0.00733	-	0.00522	0.00523
62.8	-	0.00837	0.00838	-	0.00597	0.00597
62.9	-	0.00941	0.00942	-	0.00671	0.00672
63	0.01071	0.01071	0.01071	0.00788	0.00788	0.00788
63.1	-	0.00107	0.00108	-	0.00079	0.00079
63.2	-	0.00214	0.00215	-	0.00158	0.00158
63.3	-	0.00321	0.00323	-	0.00236	0.00237
63.4	-	0.00428	0.00430	-	0.00315	0.00316
63.5	-	0.00536	0.00537	-	0.00394	0.00395
63.6	-	0.00643	0.00644	-	0.00473	0.00474
63.7	-	0.00750	0.00751	-	0.00552	0.00552
63.8	-	0.00857	0.00858	-	0.00630	0.00631
63.9	-	0.00964	0.00964	-	0.00709	0.00709
64	0.01104	0.01104	0.01104	0.00833	0.00833	0.00833
64.1	-	0.00110	0.00111	-	0.00083	0.00084
64.2	-	0.00221	0.00222	-	0.00167	0.00167
64.3	-	0.00331	0.00332	-	0.00250	0.00251
64.4	-	0.00442	0.00443	-	0.00333	0.00334
64.5	-	0.00552	0.00554	-	0.00417	0.00417
64.6	-	0.00662	0.00664	-	0.00500	0.00501
64.7	-	0.00773	0.00774	-	0.00583	0.00584
64.8	-	0.00883	0.00884	-	0.00666	0.00667
64.9	-	0.00994	0.00994	-	0.00750	0.00750
65	0.01146	0.01146	0.01146	0.00883	0.00883	0.00883
65.1	-	0.00115	0.00115	-	0.00088	0.00089
65.2	-	0.00229	0.00230	-	0.00177	0.00177
65.3	-	0.00344	0.00345	-	0.00265	0.00266
65.4	-	0.00458	0.00460	-	0.00353	0.00354
65.5	-	0.00573	0.00575	-	0.00442	0.00442
65.6	-	0.00688	0.00689	-	0.00530	0.00531
65.7	-	0.00802	0.00804	-	0.00618	0.00619

65.8	-	0.00917	0.00918	-	0.00706	0.00707
65.9	-	0.01031	0.01032	-	0.00795	0.00795
66	0.01199	0.01199	0.01199	0.00940	0.00940	0.00940
66.1	-	0.00120	0.00121	-	0.00094	0.00094
66.2	-	0.00240	0.00241	-	0.00188	0.00189
66.3	-	0.00360	0.00361	-	0.00282	0.00283
66.4	-	0.00480	0.00481	-	0.00376	0.00377
66.5	-	0.00600	0.00601	-	0.00470	0.00471
66.6	-	0.00719	0.00721	-	0.00564	0.00565
66.7	-	0.00839	0.00841	-	0.00658	0.00659
66.8	-	0.00959	0.00960	-	0.00752	0.00753
66.9	-	0.01079	0.01080	-	0.00846	0.00846
67	0.01260	0.01260	0.01260	0.01005	0.01005	0.01005
67.1	-	0.00126	0.00127	-	0.00101	0.00101
67.2	-	0.00252	0.00253	-	0.00201	0.00202
67.3	-	0.00378	0.00380	-	0.00302	0.00303
67.4	-	0.00504	0.00506	-	0.00402	0.00403
67.5	-	0.00630	0.00632	-	0.00503	0.00504
67.6	-	0.00756	0.00758	-	0.00603	0.00604
67.7	-	0.00882	0.00884	-	0.00704	0.00705
67.8	-	0.01008	0.01009	-	0.00804	0.00805
67.9	-	0.01134	0.01135	-	0.00905	0.00905
68	0.01329	0.01329	0.01329	0.01076	0.01076	0.01076
68.1	-	0.00133	0.00134	-	0.00108	0.00108
68.2	-	0.00266	0.00267	-	0.00215	0.00216
68.3	-	0.00399	0.00401	-	0.00323	0.00324
68.4	-	0.00532	0.00534	-	0.00430	0.00432
68.5	-	0.00665	0.00667	-	0.00538	0.00539
68.6	-	0.00797	0.00800	-	0.00646	0.00647
68.7	-	0.00930	0.00932	-	0.00753	0.00754
68.8	-	0.01063	0.01065	-	0.00861	0.00862
68.9	-	0.01196	0.01197	-	0.00968	0.00969
69	0.01405	0.01405	0.01405	0.01150	0.01150	0.01150
69.1	-	0.00141	0.00141	-	0.00115	0.00116
69.2	-	0.00281	0.00283	-	0.00230	0.00231
69.3	-	0.00422	0.00424	-	0.00345	0.00346
69.4	-	0.00562	0.00564	-	0.00460	0.00462
69.5	-	0.00703	0.00705	-	0.00575	0.00577
69.6	-	0.00843	0.00845	-	0.00690	0.00692
69.7	-	0.00984	0.00986	-	0.00805	0.00806
69.8	-	0.01124	0.01126	-	0.00920	0.00921
69.9	-	0.01265	0.01265	-	0.01035	0.01036
70	0.01485	0.01485	0.01485	0.01229	0.01229	0.01229
70.1	-	0.00149	0.00150	-	0.00123	0.00124
70.2	-	0.00297	0.00299	-	0.00246	0.00247
70.3	-	0.00446	0.00448	-	0.00369	0.00370
70.4	-	0.00594	0.00597	-	0.00492	0.00493
70.5	-	0.00743	0.00745	-	0.00615	0.00616
70.6	-	0.00891	0.00894	-	0.00737	0.00739
70.7	-	0.01040	0.01042	-	0.00860	0.00862
70.8	-	0.01188	0.01190	-	0.00983	0.00984
70.9	-	0.01337	0.01338	-	0.01106	0.01107
71	0.01574	0.01574	0.01574	0.01314	0.01314	0.01314
71.1	-	0.00157	0.00159	-	0.00131	0.00132
71.2	-	0.00315	0.00317	-	0.00263	0.00264
71.3	-	0.00472	0.00475	-	0.00394	0.00396
71.4	-	0.00630	0.00633	-	0.00526	0.00528
71.5	-	0.00787	0.00790	-	0.00657	0.00659
71.6	-	0.00944	0.00947	-	0.00788	0.00790
71.7	-	0.01102	0.01104	-	0.00920	0.00922
71.8	-	0.01259	0.01261	-	0.01051	0.01053
71.9	-	0.01417	0.01418	-	0.01183	0.01183
72	0.01670	0.01670	0.01670	0.01406	0.01406	0.01406
72.1	-	0.00167	0.00168	-	0.00141	0.00141
72.2	-	0.00334	0.00336	-	0.00281	0.00283
72.3	-	0.00501	0.00504	-	0.00422	0.00424
72.4	-	0.00668	0.00671	-	0.00562	0.00565
72.5	-	0.00835	0.00839	-	0.00703	0.00705
72.6	-	0.01002	0.01005	-	0.00844	0.00846
72.7	-	0.01169	0.01172	-	0.00984	0.00986
72.8	-	0.01336	0.01338	-	0.01125	0.01126
72.9	-	0.01503	0.01504	-	0.01265	0.01266
73	0.01777	0.01777	0.01777	0.01508	0.01508	0.01508
73.1	-	0.00178	0.00179	-	0.00151	0.00152

73.2	-	0.00355	0.00358	-	0.00302	0.00303
73.3	-	0.00533	0.00536	-	0.00452	0.00455
73.4	-	0.00711	0.00715	-	0.00603	0.00606
73.5	-	0.00889	0.00892	-	0.00754	0.00757
73.6	-	0.01066	0.01070	-	0.00905	0.00908
73.7	-	0.01244	0.01247	-	0.01056	0.01058
73.8	-	0.01422	0.01424	-	0.01206	0.01208
73.9	-	0.01599	0.01601	-	0.01357	0.01358
74	0.01895	0.01895	0.01895	0.01620	0.01620	0.01620
74.1	-	0.00190	0.00191	-	0.00162	0.00163
74.2	-	0.00379	0.00382	-	0.00324	0.00326
74.3	-	0.00569	0.00572	-	0.00486	0.00489
74.4	-	0.00758	0.00762	-	0.00648	0.00651
74.5	-	0.00948	0.00952	-	0.00810	0.00813
74.6	-	0.01137	0.01141	-	0.00972	0.00975
74.7	-	0.01327	0.01330	-	0.01134	0.01137
74.8	-	0.01516	0.01519	-	0.01296	0.01298
74.9	-	0.01706	0.01707	-	0.01458	0.01459
75	0.02026	0.02026	0.02026	0.01743	0.01743	0.01743
75.1	-	0.00203	0.00204	-	0.00174	0.00176
75.2	-	0.00405	0.00409	-	0.00349	0.00351
75.3	-	0.00608	0.00612	-	0.00523	0.00526
75.4	-	0.00810	0.00815	-	0.00697	0.00701
75.5	-	0.01013	0.01018	-	0.00872	0.00875
75.6	-	0.01216	0.01221	-	0.01046	0.01049
75.7	-	0.01418	0.01423	-	0.01220	0.01223
75.8	-	0.01621	0.01624	-	0.01394	0.01397
75.9	-	0.01823	0.01825	-	0.01569	0.01570
76	0.02369	0.02369	0.02369	0.01879	0.01879	0.01879
76.1	-	0.00237	0.00239	-	0.00188	0.00190
76.2	-	0.00474	0.00478	-	0.00376	0.00379
76.3	-	0.00711	0.00717	-	0.00564	0.00567
76.4	-	0.00948	0.00954	-	0.00752	0.00756
76.5	-	0.01185	0.01192	-	0.00940	0.00944
76.6	-	0.01421	0.01428	-	0.01127	0.01132
76.7	-	0.01658	0.01664	-	0.01315	0.01319
76.8	-	0.01895	0.01900	-	0.01503	0.01506
76.9	-	0.02132	0.02135	-	0.01691	0.01693
77	0.02738	0.02738	0.02738	0.02030	0.02030	0.02030
77.1	-	0.00274	0.00277	-	0.00203	0.00205
77.2	-	0.00548	0.00554	-	0.00406	0.00409
77.3	-	0.00821	0.00829	-	0.00609	0.00613
77.4	-	0.01095	0.01104	-	0.00812	0.00817
77.5	-	0.01369	0.01379	-	0.01015	0.01020
77.6	-	0.01643	0.01652	-	0.01218	0.01223
77.7	-	0.01917	0.01925	-	0.01421	0.01425
77.8	-	0.02190	0.02196	-	0.01624	0.01627
77.9	-	0.02464	0.02468	-	0.01827	0.01829
78	0.03130	0.03130	0.03130	0.02326	0.02326	0.02326
78.1	-	0.00313	0.00317	-	0.00233	0.00235
78.2	-	0.00626	0.00634	-	0.00465	0.00470
78.3	-	0.00939	0.00949	-	0.00698	0.00704
78.4	-	0.01252	0.01264	-	0.00930	0.00937
78.5	-	0.01565	0.01577	-	0.01163	0.01170
78.6	-	0.01878	0.01890	-	0.01396	0.01402
78.7	-	0.02191	0.02201	-	0.01628	0.01634
78.8	-	0.02504	0.02512	-	0.01861	0.01865
78.9	-	0.02817	0.02821	-	0.02093	0.02096
79	0.03693	0.03693	0.03693	0.02880	0.02880	0.02880
79.1	-	0.00369	0.00376	-	0.00288	0.00292
79.2	-	0.00739	0.00750	-	0.00576	0.00583
79.3	-	0.01108	0.01123	-	0.00864	0.00873
79.4	-	0.01477	0.01494	-	0.01152	0.01162
79.5	-	0.01847	0.01864	-	0.01440	0.01451
79.6	-	0.02216	0.02232	-	0.01728	0.01738
79.7	-	0.02585	0.02600	-	0.02016	0.02025
79.8	-	0.02954	0.02965	-	0.02304	0.02311
79.9	-	0.03324	0.03330	-	0.02592	0.02596
80	0.04518	0.04518	0.04518	0.03569	0.03569	0.03569
80.1	-	0.00452	0.00461	-	0.00357	0.00363
80.2	-	0.00904	0.00920	-	0.00714	0.00724
80.3	-	0.01355	0.01377	-	0.01071	0.01084
80.4	-	0.01807	0.01832	-	0.01428	0.01443
80.5	-	0.02259	0.02285	-	0.01785	0.01801

80.6	-	0.02711	0.02736	-	0.02141	0.02157
80.7	-	0.03163	0.03184	-	0.02498	0.02512
80.8	-	0.03614	0.03631	-	0.02855	0.02866
80.9	-	0.04066	0.04076	-	0.03212	0.03218
81	0.05527	0.05527	0.05527	0.04208	0.04208	0.04208
81.1	-	0.00553	0.00567	-	0.00421	0.00429
81.2	-	0.01105	0.01131	-	0.00842	0.00856
81.3	-	0.01658	0.01691	-	0.01262	0.01281
81.4	-	0.02211	0.02249	-	0.01683	0.01705
81.5	-	0.02764	0.02803	-	0.02104	0.02127
81.6	-	0.03316	0.03354	-	0.02525	0.02546
81.7	-	0.03869	0.03902	-	0.02946	0.02965
81.8	-	0.04422	0.04447	-	0.03366	0.03381
81.9	-	0.04974	0.04988	-	0.03787	0.03795
82	0.06732	0.06732	0.06732	0.04907	0.04907	0.04907
82.1	-	0.00673	0.00695	-	0.00491	0.00502
82.2	-	0.01346	0.01384	-	0.00981	0.01001
82.3	-	0.02020	0.02069	-	0.01472	0.01498
82.4	-	0.02693	0.02749	-	0.01963	0.01992
82.5	-	0.03366	0.03425	-	0.02454	0.02484
82.6	-	0.04039	0.04095	-	0.02944	0.02974
82.7	-	0.04712	0.04761	-	0.03435	0.03461
82.8	-	0.05386	0.05423	-	0.03926	0.03945
82.9	-	0.06059	0.06080	-	0.04416	0.04427
83	0.08228	0.08228	0.08228	0.05520	0.05520	0.05520
83.1	-	0.00823	0.00855	-	0.00552	0.00566
83.2	-	0.01646	0.01703	-	0.01104	0.01129
83.3	-	0.02468	0.02543	-	0.01656	0.01689
83.4	-	0.03291	0.03376	-	0.02208	0.02246
83.5	-	0.04114	0.04202	-	0.02760	0.02799
83.6	-	0.04937	0.05021	-	0.03312	0.03350
83.7	-	0.05760	0.05833	-	0.03864	0.03897
83.8	-	0.06582	0.06638	-	0.04416	0.04441
83.9	-	0.07405	0.07437	-	0.04968	0.04982
84	0.09478	0.09478	0.09478	0.06086	0.06086	0.06086
84.1	-	0.009478	0.009908	-	0.006086	0.006259
84.2	-	0.018956	0.019718	-	0.012172	0.01248
84.3	-	0.028434	0.029431	-	0.018258	0.018661
84.4	-	0.037912	0.039048	-	0.024344	0.024803
84.5	-	0.04739	0.048569	-	0.03043	0.030908
84.6	-	0.056868	0.057997	-	0.036516	0.036974
84.7	-	0.066346	0.06733	-	0.042602	0.043002
84.8	-	0.075824	0.076571	-	0.048688	0.048992
84.9	-	0.085302	0.085721	-	0.054774	0.054945
85	0.10465	0.10465	0.10465	0.06715	0.06715	0.06715
85.1	-	0.010465	0.010993	-	0.006715	0.006927
85.2	-	0.02093	0.021866	-	0.01343	0.013806
85.3	-	0.031395	0.032618	-	0.020145	0.020637
85.4	-	0.04186	0.043253	-	0.02686	0.027421
85.5	-	0.052325	0.053771	-	0.033575	0.034158
85.6	-	0.06279	0.064173	-	0.04029	0.040849
85.7	-	0.073255	0.07446	-	0.047005	0.047493
85.8	-	0.08372	0.084635	-	0.05372	0.054091
85.9	-	0.094185	0.094698	-	0.060435	0.060643
86	0.11533	0.11533	0.11533	0.07318	0.07318	0.07318
86.1	-	0.011533	0.012179	-	0.007318	0.007571
86.2	-	0.023066	0.02421	-	0.014636	0.015084
86.3	-	0.034599	0.036095	-	0.021954	0.022541
86.4	-	0.046132	0.047834	-	0.029272	0.029941
86.5	-	0.057665	0.059431	-	0.03659	0.037285
86.6	-	0.069198	0.070886	-	0.043908	0.044574
86.7	-	0.080731	0.082202	-	0.051226	0.051807
86.8	-	0.092264	0.093381	-	0.058544	0.058985
86.9	-	0.103797	0.104423	-	0.065862	0.06611
87	0.12698	0.12698	0.12698	0.08155	0.08155	0.08155
87.1	-	0.012698	0.013488	-	0.008155	0.008471
87.2	-	0.025396	0.026794	-	0.01631	0.01687
87.3	-	0.038094	0.03992	-	0.024465	0.025197
87.4	-	0.050792	0.05287	-	0.03262	0.033455
87.5	-	0.06349	0.065645	-	0.040775	0.041642
87.6	-	0.076188	0.078247	-	0.04893	0.04976
87.7	-	0.088886	0.09068	-	0.057085	0.057809
87.8	-	0.101584	0.102944	-	0.06524	0.06579
87.9	-	0.114282	0.115044	-	0.073395	0.073704

88	0.13947	0.13947	0.13947	0.09045	0.09045	0.09045
88.1	-	0.013947	0.014908	-	0.009045	0.009436
88.2	-	0.027894	0.029595	-	0.01809	0.018782
88.3	-	0.041841	0.044062	-	0.027135	0.028041
88.4	-	0.055788	0.058313	-	0.03618	0.037212
88.5	-	0.069735	0.072352	-	0.045225	0.046297
88.6	-	0.083682	0.086182	-	0.05427	0.055296
88.7	-	0.097629	0.099806	-	0.063315	0.06421
88.8	-	0.111576	0.113226	-	0.07236	0.073039
88.9	-	0.125523	0.126447	-	0.081405	0.081786
89	0.15271	0.15271	0.15271	0.10001	0.10001	0.10001
89.1	-	0.015271	0.016435	-	0.010001	0.010482
89.2	-	0.030542	0.032599	-	0.020002	0.020854
89.3	-	0.045813	0.048498	-	0.030003	0.031117
89.4	-	0.061084	0.064136	-	0.040004	0.041273
89.5	-	0.076355	0.079516	-	0.050005	0.051322
89.6	-	0.091626	0.094644	-	0.060006	0.061266
89.7	-	0.106897	0.109524	-	0.070007	0.071106
89.8	-	0.122168	0.124158	-	0.080008	0.080842
89.9	-	0.137439	0.138552	-	0.090009	0.090477
90	0.16659	0.16659	0.16659	0.10913	0.10913	0.10913
90.1	-	0.016659	0.018058	-	0.010913	0.011489
90.2	-	0.033318	0.03579	-	0.021826	0.022846
90.3	-	0.049977	0.053201	-	0.032739	0.034073
90.4	-	0.066636	0.070299	-	0.043652	0.045171
90.5	-	0.083295	0.087087	-	0.054565	0.056141
90.6	-	0.099954	0.103572	-	0.065478	0.066985
90.7	-	0.116613	0.11976	-	0.076391	0.077705
90.8	-	0.133272	0.135655	-	0.087304	0.088301
90.9	-	0.149931	0.151264	-	0.098217	0.098776
91	0.17991	0.17991	0.17991	0.11521	0.11521	0.11521
91.1	-	0.017991	0.019639	-	0.011521	0.012166
91.2	-	0.035982	0.038892	-	0.023042	0.024184
91.3	-	0.053973	0.057767	-	0.034563	0.036055
91.4	-	0.071964	0.076271	-	0.046084	0.047783
91.5	-	0.089955	0.094412	-	0.057605	0.059367
91.6	-	0.107946	0.112196	-	0.069126	0.070811
91.7	-	0.125937	0.129632	-	0.080647	0.082115
91.8	-	0.143928	0.146725	-	0.092168	0.093282
91.9	-	0.161919	0.163482	-	0.103689	0.104313
92	0.1939	0.1939	0.1939	0.12499	0.12499	0.12499
92.1	-	0.01939	0.021324	-	0.012499	0.013263
92.2	-	0.03878	0.042193	-	0.024998	0.026351
92.3	-	0.05817	0.062618	-	0.037497	0.039264
92.4	-	0.07756	0.082607	-	0.049996	0.052007
92.5	-	0.09695	0.102169	-	0.062495	0.06458
92.6	-	0.11634	0.121315	-	0.074994	0.076987
92.7	-	0.13573	0.140052	-	0.087493	0.089229
92.8	-	0.15512	0.15839	-	0.099992	0.101309
92.9	-	0.17451	0.176336	-	0.112491	0.113229
93	0.20874	0.20874	0.20874	0.13826	0.13826	0.13826
93.1	-	0.020874	0.023141	-	0.013826	0.01477
93.2	-	0.041748	0.045746	-	0.027652	0.029322
93.3	-	0.062622	0.067829	-	0.041478	0.043659
93.4	-	0.083496	0.0894	-	0.055304	0.057784
93.5	-	0.10437	0.110472	-	0.06913	0.0717
93.6	-	0.125244	0.131057	-	0.082956	0.085411
93.7	-	0.146118	0.151165	-	0.096782	0.09892
93.8	-	0.166992	0.170807	-	0.110608	0.112229
93.9	-	0.187866	0.189996	-	0.124434	0.125341
94	0.22451	0.22451	0.22451	0.15451	0.15451	0.15451
94.1	-	0.022451	0.025106	-	0.015451	0.016644
94.2	-	0.044902	0.049581	-	0.030902	0.033011
94.3	-	0.067353	0.073441	-	0.046353	0.049105
94.4	-	0.089804	0.096703	-	0.061804	0.064932
94.5	-	0.112255	0.119381	-	0.077255	0.080495
94.6	-	0.134706	0.141489	-	0.092706	0.095799
94.7	-	0.157157	0.163043	-	0.108157	0.110848
94.8	-	0.179608	0.184055	-	0.123608	0.125647
94.9	-	0.202059	0.20454	-	0.139059	0.1402
95	0.24126	0.24126	0.24126	0.17429	0.17429	0.17429
95.1	-	0.024126	0.027232	-	0.017429	0.018969
95.2	-	0.048252	0.053722	-	0.034858	0.037578
95.3	-	0.072378	0.079491	-	0.052287	0.055834

95.4	-	0.096504	0.104559	-	0.069716	0.073744
95.5	-	0.12063	0.128943	-	0.087145	0.091314
95.6	-	0.144756	0.152664	-	0.104574	0.108551
95.7	-	0.168882	0.175738	-	0.122003	0.125461
95.8	-	0.193008	0.198185	-	0.139432	0.14205
95.9	-	0.217134	0.22002	-	0.156861	0.158324
96	0.25715	0.25715	0.25715	0.19155	0.19155	0.19155
96.1	-	0.025715	0.029289	-	0.019155	0.021039
96.2	-	0.05143	0.057719	-	0.03831	0.041636
96.3	-	0.077145	0.085318	-	0.057465	0.061799
96.4	-	0.10286	0.112107	-	0.07662	0.081538
96.5	-	0.128575	0.138113	-	0.095775	0.100862
96.6	-	0.15429	0.163356	-	0.11493	0.119779
96.7	-	0.180005	0.18786	-	0.134085	0.138298
96.8	-	0.20572	0.211647	-	0.15324	0.156427
96.9	-	0.231435	0.234736	-	0.172395	0.174175
97	0.27419	0.27419	0.27419	0.20596	0.20596	0.20596
97.1	-	0.027419	0.031539	-	0.020596	0.022798
97.2	-	0.054838	0.062083	-	0.041192	0.045077
97.3	-	0.082257	0.091663	-	0.061788	0.066847
97.4	-	0.109676	0.120311	-	0.082384	0.088122
97.5	-	0.137095	0.148055	-	0.10298	0.108911
97.6	-	0.164514	0.174924	-	0.123576	0.129226
97.7	-	0.191933	0.200946	-	0.144172	0.149078
97.8	-	0.219352	0.226147	-	0.164768	0.168478
97.9	-	0.246771	0.250553	-	0.185364	0.187435
98	0.29249	0.29249	0.29249	0.22227	0.22227	0.22227
98.1	-	0.029249	0.034009	-	0.022227	0.024824
98.2	-	0.058498	0.066861	-	0.044454	0.049032
98.3	-	0.087747	0.098595	-	0.066681	0.072639
98.4	-	0.116996	0.129251	-	0.088908	0.09566
98.5	-	0.146245	0.158864	-	0.111135	0.11811
98.6	-	0.175494	0.18747	-	0.133362	0.140002
98.7	-	0.204743	0.215103	-	0.155589	0.161351
98.8	-	0.233992	0.241796	-	0.177816	0.18217
98.9	-	0.263241	0.267581	-	0.200043	0.202472
99	0.31215	0.31215	0.31215	0.23736	0.23736	0.23736
99.1	-	0.031215	0.036727	-	0.023736	0.026733
99.2	-	0.06243	0.072105	-	0.047472	0.052752
99.3	-	0.093645	0.106184	-	0.071208	0.078074
99.4	-	0.12486	0.139011	-	0.094944	0.10272
99.5	-	0.156075	0.170633	-	0.11868	0.126707
99.6	-	0.18729	0.201093	-	0.142416	0.150053
99.7	-	0.218505	0.230434	-	0.166152	0.172775
99.8	-	0.24972	0.258698	-	0.189888	0.194889
99.9	-	0.280935	0.285924	-	0.213624	0.216412
100	0.33331	0.33331	0.33331	0.2581	0.2581	0.2581
100.1	-	0.033331	0.039732	-	0.02581	0.029413
100.2	-	0.066662	0.077886	-	0.05162	0.057961
100.3	-	0.099993	0.114523	-	0.07743	0.085669
100.4	-	0.133324	0.149705	-	0.10324	0.112562
100.5	-	0.166655	0.183489	-	0.12905	0.138664
100.6	-	0.199986	0.215931	-	0.15486	0.163998
100.7	-	0.233317	0.247084	-	0.18067	0.188587
100.8	-	0.266648	0.276999	-	0.20648	0.212453
100.9	-	0.299979	0.305725	-	0.23229	0.235617
101	0.35163	0.35163	0.35163	0.28068	0.28068	0.28068
101.1	-	0.035163	0.042404	-	0.028068	0.032408
101.2	-	0.070326	0.08301	-	0.056136	0.063766
101.3	-	0.105489	0.121894	-	0.084204	0.094108
101.4	-	0.140652	0.159129	-	0.112272	0.123466
101.5	-	0.175815	0.194786	-	0.14034	0.151873
101.6	-	0.210978	0.22893	-	0.168408	0.179359
101.7	-	0.246141	0.261627	-	0.196476	0.205954
101.8	-	0.281304	0.292937	-	0.224544	0.231688
101.9	-	0.316467	0.322919	-	0.252612	0.256587
102	0.37132	0.37132	0.37132	0.30562	0.30562	0.30562
102.1	-	0.037132	0.045353	-	0.030562	0.035816
102.2	-	0.074264	0.088648	-	0.061124	0.07035
102.3	-	0.111396	0.129981	-	0.091686	0.103647
102.4	-	0.148528	0.169438	-	0.122248	0.135751
102.5	-	0.18566	0.207107	-	0.15281	0.166705
102.6	-	0.222792	0.243066	-	0.183372	0.196551
102.7	-	0.259924	0.277395	-	0.213934	0.225328

102.8	-	0.297056	0.310167	-	0.244496	0.253074
102.9	-	0.334188	0.341453	-	0.275058	0.279826
103	0.3925	0.3925	0.3925	0.33315	0.33315	0.33315
103.1	-	0.03925	0.048619	-	0.033315	0.039709
103.2	-	0.0785	0.094874	-	0.06663	0.077841
103.3	-	0.11775	0.13888	-	0.099945	0.114459
103.4	-	0.157	0.180746	-	0.13326	0.149623
103.5	-	0.19625	0.220577	-	0.166575	0.183391
103.6	-	0.2355	0.258472	-	0.19989	0.215818
103.7	-	0.27475	0.294524	-	0.233205	0.246957
103.8	-	0.314	0.328823	-	0.26652	0.27686
103.9	-	0.35325	0.361455	-	0.299835	0.305575
104	0.41527	0.41527	0.41527	0.36369	0.36369	0.36369
104.1	-	0.041527	0.052246	-	0.036369	0.0442
104.2	-	0.083054	0.101763	-	0.072738	0.086447
104.3	-	0.124581	0.148692	-	0.109107	0.126826
104.4	-	0.166108	0.19317	-	0.145476	0.165421
104.5	-	0.207635	0.235324	-	0.181845	0.20231
104.6	-	0.249162	0.275275	-	0.218214	0.237568
104.7	-	0.290689	0.313139	-	0.254583	0.271268
104.8	-	0.332216	0.349025	-	0.290952	0.303478
104.9	-	0.373743	0.383036	-	0.327321	0.334264
105	0.43973	0.43973	0.43973	0.39318	0.39318	0.39318
105.1	-	0.043973	0.056287	-	0.039318	0.048725
105.2	-	0.087946	0.109407	-	0.078636	0.095076
105.3	-	0.131919	0.159536	-	0.117954	0.139169
105.4	-	0.175892	0.206843	-	0.157272	0.181113
105.5	-	0.219865	0.251488	-	0.19659	0.221013
105.6	-	0.263838	0.29362	-	0.235908	0.25897
105.7	-	0.307811	0.33338	-	0.275226	0.295077
105.8	-	0.351784	0.370903	-	0.314544	0.329424
105.9	-	0.395757	0.406313	-	0.353862	0.362098
106	0.46602	0.46602	0.46602	0.42883	0.42883	0.42883
106.1	-	0.046602	0.060812	-	0.042883	0.054467
106.2	-	0.093204	0.117926	-	0.085766	0.105968
106.3	-	0.139806	0.171567	-	0.128649	0.154664
106.4	-	0.186408	0.221946	-	0.171532	0.200707
106.5	-	0.23301	0.269261	-	0.214415	0.244242
106.6	-	0.279612	0.313698	-	0.257298	0.285406
106.7	-	0.326214	0.355434	-	0.300181	0.324328
106.8	-	0.372816	0.394631	-	0.343064	0.36113
106.9	-	0.419418	0.431445	-	0.385947	0.395928
107	0.49429	0.49429	0.49429	0.46604	0.46604	0.46604
107.1	-	0.049429	0.065907	-	0.046604	0.060816
107.2	-	0.098858	0.12747	-	0.093208	0.117933
107.3	-	0.148287	0.184976	-	0.139812	0.171576
107.4	-	0.197716	0.238692	-	0.186416	0.221957
107.5	-	0.247145	0.288867	-	0.23302	0.269274
107.6	-	0.296574	0.335736	-	0.279624	0.313714
107.7	-	0.346003	0.379515	-	0.326228	0.355451
107.8	-	0.395432	0.42041	-	0.372832	0.394649
107.9	-	0.444861	0.458609	-	0.419436	0.431464
108	0.52467	0.52467	0.52467	0.50427	0.50427	0.50427
108.1	-	0.052467	0.071676	-	0.050427	0.067767
108.2	-	0.104934	0.138215	-	0.100854	0.130941
108.3	-	0.157401	0.199984	-	0.151281	0.189835
108.4	-	0.209868	0.257326	-	0.201708	0.244737
108.5	-	0.262335	0.310558	-	0.252135	0.295919
108.6	-	0.314802	0.359975	-	0.302562	0.343632
108.7	-	0.367269	0.405849	-	0.352989	0.388112
108.8	-	0.419736	0.448436	-	0.403416	0.429578
108.9	-	0.472203	0.48797	-	0.453843	0.468234
109	0.55733	0.55733	0.55733	0.54477	0.54477	0.54477
109.1	-	0.055733	0.078261	-	0.054477	0.075678
109.2	-	0.111466	0.150397	-	0.108954	0.14563
109.3	-	0.167199	0.216888	-	0.163431	0.210287
109.4	-	0.222932	0.278175	-	0.217908	0.270051
109.5	-	0.278665	0.334665	-	0.272385	0.325293
109.6	-	0.334398	0.386735	-	0.326862	0.376353
109.7	-	0.390131	0.43473	-	0.381339	0.42355
109.8	-	0.445864	0.478968	-	0.435816	0.467175
109.9	-	0.501597	0.519745	-	0.490293	0.507498
110	0.59244	0.59244	0.59244	0.58702	0.58702	0.58702
110.1	-	0.059244	0.085846	-	0.058702	0.084638

110.2	-	0.118488	0.164323	-	0.117404	0.162112
110.3	-	0.177732	0.236063	-	0.176106	0.233029
110.4	-	0.236976	0.301644	-	0.234808	0.297944
110.5	-	0.29622	0.361596	-	0.29351	0.357365
110.6	-	0.355464	0.4164	-	0.352212	0.411756
110.7	-	0.414708	0.4665	-	0.410914	0.461544
110.8	-	0.473952	0.512299	-	0.469616	0.507118
110.9	-	0.533196	0.554167	-	0.528318	0.548834
111	1	1	1	1	1	1