# DONGGUAN UCHI ELECTRONICS CO., LTD.

# APPROVAL SHEET

CUSTOMER	
PART NAME Te	emperature measuring NTC thermistor chip
PART NUMBER	MF58 Chip 104H3950
DATE	2020-03-12
	CONFIRM

# **CLIENT**

Quality
Dep.:
Production
Dep.:
Engineering
Dep.:

# **MANUFACTOR**

Design: <u>Judy Zhu</u>

Check: Approval:

# Temperature measuring NTC thermistor chip

Part No.: MF58 Chip-104H3950

### DONGGUAN UCHI ELECTRONICS CO., LTD.

This detailed specification provide MF58 NTC Thermistor chip's structure size product performance test conditions the description of the use requirement, made by DONGGUAN UCHI ELECTRONICS CO., LTD ,please confirm.

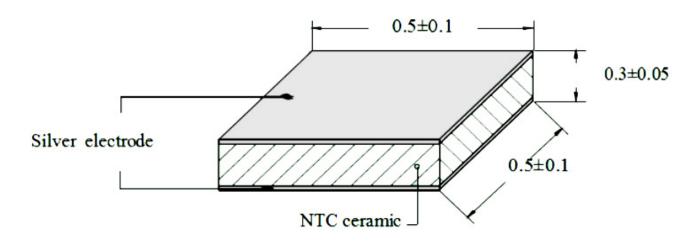
If you have any doubt with this specification, please contact us(james@uchidg.com).If you have no doubt ,please confirm back. If you don't confirm back ,our company think that you accept it.Your company change the usage and usage method,please contact us.

	Customer:		
	customer	confirm	Date:
cont	confirm	approve	Date:

### 1. Application

The specification of this approval applies to the MF58 series NTC thermistor chips . These products comply with the requirements of EU RoHS.

## 2. Dimensions(mm)



# 3. Specifications:

MF 58 chip	104	Н	3950	A	A	В	M
1	2	3	4	5	6	7	8
Туре	R <sub>25</sub>	Tolerance (%)	B value	Measuring Temp.	Electrode material	Welding method	Package
MF58 NTC thermistor chip	10× 10 <sup>4</sup> Ω	±3%	3950K	25/50°C	Silver electrode	Binding	Blue film

## 4. Electricity:

No	Items	符号	Test condition	Range	Unit
1	Resistance at 25 °C	R <sub>25</sub>	T=25±0.01℃	100±3%	ΚΩ
2	B value	B <sub>25/50</sub>	$B = \frac{ln(R_1) - ln(R_2)}{[1/T_1 - 1/T_2]}$	3950±1%	K
3	Thermal time constant	τ	$50^{\circ}\text{C} \rightarrow 25^{\circ}\text{C}$ , in oil	≤1.0	Sec

4	Dissipation coefficient	δ	Ta=25±0.5℃	~0.2	mW/℃
5	Max rated power	Pmax	Ta=25±0.5°C	≤10	mW
6	Operating temp	/	/	-40~+125	$^{\circ}$

## 4.1 Resistance (R<sub>25</sub>)

Requirements:  $R_{25} = 100 \text{K}\Omega \pm 3\%$ 

Test method: It is measured in a high precision oil tank with constant temperature of  $25^{\circ}\text{C}\pm0.01^{\circ}\text{C}$  and applies a high-precision resistance measuring instrument. The instrument's measuring power should be zero power.(In other words, the chip self-heating generated by the current flowing through the product is negligible)

#### 4.2 B value

Requirements: B25/50=3950K±1%

Test method: Measure resistance in a high precision oil tank with constant temperature of  $25\,^{\circ}\text{C}\pm0.01\,^{\circ}\text{C}$  and  $50\pm0.01\,^{\circ}\text{C}$ . Then calculate B value according to the following formula:B<sub>t1/t2</sub>=ln(Rt1/Rt2)/(1/(T1+273.15)-1/(T2+273.15)).

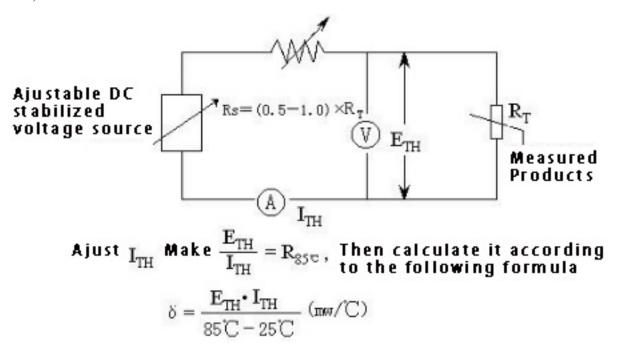
## 4.3 Thermal time constant( $\tau$ )

Requirements: T1=50-(50-25)\*63.2%=34.2°C,  $\tau$ max = 1.0 S (in oil).

Test method: Calculate the time required for the product's resistance at  $50^{\circ}$ C rapidly converted to corresponding resistance at  $34.2^{\circ}$ C in the oil tank.

### 4.4 Dissipation coefficient( $\delta$ )

Test method: (The product under test is connected to the following circuit in still air at  $25\pm0.5^{\circ}\text{C}$ )



- 4.5 Max rated power(Pmax) Rated power: Ta=25±0.5°C, Pmax=10mW.
- 4.6 Operating Temp:  $-40^{\circ}\text{C}$  —+125  $^{\circ}\text{C}$ .(All materials used to assemble the chip must meet the maximum operating temperature)

# 5. Recommended welding procedure

- 5.1 Silver electrode chip is only suitable for welding with gold and silver wire.
- 5.2 Welding conditions for binding(suitable for gold and silver wire)

-				
	Items	Diameter	Condition	Requirements
	Gold wire	0.8mil~2.0mil	interference and vibration, no chip oxidation. 2. Indoor	giameter.
	Silver wire		interference and vibration, no chip oxidation. 2. Indoor temperature: $20 \sim 28 ^{\circ}\text{C}$ , humidity: $40\% \sim 60\%$	<ol> <li>Welding spot length: ≥ 1.5 times the line diameter, ≤ 5 times line diameter.</li> <li>Solder joint width: ≥ 1.2 times the line diameter, ≤ 3 times line diameter.</li> <li>the end of the line: ≥ 0.3 times the line diameter, ≤ 1.5 times the line diameter</li> <li>1mil wire diameter's binding tension ≥ 3.0g</li> <li>1.2mil wire diameter's binding tension ≥ 5g.</li> </ol>

Notice: Avoiding damage to the chip, binding tension should not be too large.

# 6. Reliability

Items	Standard	Test method
Vibration test	△ Rate of resistance change≤±1% △ Rate of B value change≤±1% Without appearance damage	Vibration frequency range: 10 ~55Hz  Total amplitude:: 1.52mm  Time: 2hours for X\Y\Z
Cyclic temperature experiments	A Rate of resistance change≤±1%  Rate of B value change≤±1%  Without appearance damage	The chip will be packaged with vinyl after binding with the wire, and have1000 times circulation in the air according to following temp-curve -40°C×30min→100°C×30min, 1000 cycles period back and forth
Aging test at high temperature	<ul> <li>△ Rate of resistance change≤±1%</li> <li>△ Rate of B value change≤±1%</li> <li>Without appearance damage</li> </ul>	The chip will be packaged with vinyl after binding with the wire, placed in the air at 125±5°C for 1000h±24hrs

Storage experiment at low temperature	<ul> <li>△ Rate of resistance change≤±1%</li> <li>△ Rate of B value change≤±1%</li> <li>Without appearance damage</li> </ul>	The chip will be packaged with vinyl after binding with the wire, placed in the air at 125±5°C for 1000h±24hrs
Load test at high temperature		The chip will be packaged with vinyl after binding with the wire, and fled into 0.2mA operating current at 100±5°C for 1000h±24hrs
Moisture resistance test	Rate of B value change≤±1%	The chip will be packaged with vinyl after binding with the wire, and placed for1000±24hrs in the environment of 85±2°C and 80-90%RH

### 7. Certificates

- 7.1 Quality Management System:ISO9001:2015 IATF16949:2016
- 7.2 Environment Management System:ISO14001:2015
- 7.3 Intellectual Property Management System: GB/T29490-2013
- 7.4 Integrated Information Technology and Industrialization Management System:

AITTRE-00920111MS0088301

7.5 CQC:CQC09001033986

7.6 Safety Approval: UL, C-UL: E240991 CTUs

7.710,000 durability test of UL

7.8 AEC-Q200:20172052558G

7.9 Environmental test report: RoHS

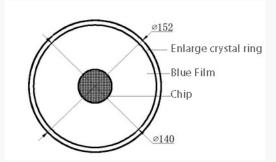
## 8. Packaging

8.1 Blue film packaging

The blue film was put into the wafer expanding machine and smoothly inlaid on the wafer expanding ring, and then the NTC chips was tidily arranged on the blue film by the sticking membrane.

Quantity of each layer: about 2.5KPcs/Disk, center distance ≈0.6mm.

8.2 Packed in paper box, each box has 10 layers, 3 boxes for small carton and 6 boxes for large carton.



9. Mode of transport and storage

9.1 In the process of storage and transportation, the height of each stack shall not exceed 4 boxes, and the chip must be stored in vacuum and anti-oxidation packaging.

9.2 Select the packing box according to the shipment quantity, any method of transportation is allowed; However, it is necessary to avoid contamination, the direct or indirect pouring of rain or snow and mechanical damages during transportation.

9.3 Products shall be stored in an environment free from acidic or alkaline substances, corrosive gases or radiation sources, and shall be avoided in an environment with light.

9.4 Storage temperature: -10 °C ~ +40 °C.

9.5 Relative humidity: ≤55%RH.

9.6 Stored in an inert gas.

### 10. Storage life

10.1 Under the guarantee of complete sealing package and the above storage conditions, the chips in bulk can be kept for 1 year in vacuum sealing package, and the chips with blue film can be kept for 6 months in the vacuum sealing package, otherwise the chip electrode will oxidize.(Storage in an inert gas is recommended)

10.2 After opening the film, please use the product within 24 hours under normal temperature and normal humidity indoor. If not, please keep the product according to the storage method.

10.3 The shelf life of the packaging material (blue film) is 3 months, the viscosity of the blue film is easy to increase for a long-time storage, leading to difficulties in wafer taking and adhesion.

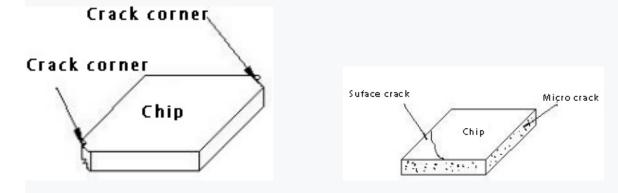
#### 11. Precautions

Thermistor chip may be damaged or misused, please strictly observe the following matters:

- 11.1 Thermistor chips are designed for a specified usage. Do not use them except for the specified usage.
- 11.2 Please do not exceed the maximum rated power of thermistor chip.
- 11.3 Please use them within the allowable operating temperature range of the thermistor chip. All the materials of the assembled chip must meet the requirement of maximum operating temperature.
- 11.4 During the resistance value test, the measured power of the testing instrument shall be zero.(That is, the self-heating of the chip caused by the current flowing through it can be ignored)
- 11.5 Please avoid excessive pressure of bonding welding; Avoid damages such as corner collapse and cracking caused by mechanical external force on thermistor chip.(Causes of chip damage: ①Clip the chip with tweezers ② welding pressure is too high ③ Ultrasonic frequency is too high ④ Suffered from a strong impact. See figure 1 and figure 2 below:

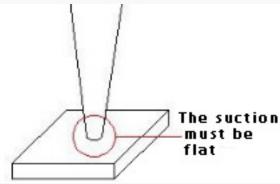
FIG. 1: Schematic diagram of crack angle

FIG. 2: Schematic diagram of micro crack



11.6 When vacuum suction pen(suction nozzle) is used in bonding welding, the nozzle tip must be flat and of low hardness(such as plastic), so as not to damage the chip. See figure 3 below:

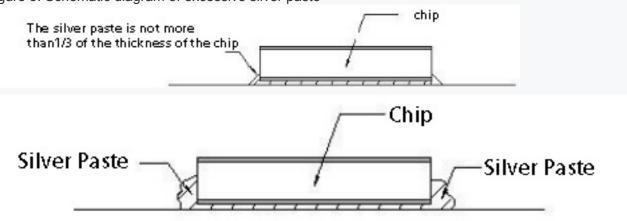
Figure 3: Schematic diagram of suction nozzle



11.7 When pasting the chip, the silver paste should not be too much, if the silver paste covering both sides of the chip is too high, it is likely to lead to low chip resistance or short circuit; It is suggested that silver paste does not exceed 1/3 of chip thickness (for reference only). See figure 4 and figure 5 below:

Figure 4: Schematic diagram of normal silver paste

Figure 5: Schematic diagram of excessive silver paste



11.8 The welding spot of the bonding welding line shall fall in the middle of the chip as far as possible to avoid chip edge or angle collapse during welding. See figure 6 below:

Figure 6: Schematic diagram of the bad location of solder joints

- 11.9 The selection of silver paste shall be matched with the process. If the temperature during production or using is higher than the maximum operating temperature of silver paste, silver paste will release destructive material and damage the chip, which tend to cause bad resistance value and bad appearance.
- 11.10 The thermistor chip being directly exposed to air will lead to oxidation and yellowing of the chip electrode; Do not touch the chip directly by hand.
- 11.11 Please do not use in the following environment:
- A.Corrosive atmosphere (C1<sub>2</sub>, NH<sub>3</sub>, SO<sub>X</sub>, N<sub>OX</sub>, etc.)
- B. Acids, alkali, organic solvents
- C.Places with more dust

#### 12. Service life

The service life of this thermistor chip is 10 years, subject to the conditions of this approval sheet.

#### 13.RT Chart

R25=100KΩ TOLERANCE:±3% B25/50=3950K TOLERANCE:±1%(P182-6B2)

TEMP(℃)	RESISTANCE (K $\Omega$ )			
	MIN	CENTER	MAX	
-40	2785. 770	2971. 000	3165. 690	
-39	2621. 310	2793. 890	2975. 150	
-38	2466. 420	2627. 180	2795. 900	
-37	2320. 660	2470. 400	2627. 440	
-36	2183. 620	2323. 090	2469. 240	
-35	2054. 870	2184. 770	2320. 800	
-34	1933. 980	2054. 980	2181. 590	
-33	1820. 520	1933. 240	2051. 100	
-32	1714. 080	1819. 110	1928. 830	
-31	1614. 260	1712. 140	1814. 310	
-30	1520. 670	1611. 900	1707. 060	
-29	1432. 930	1517. 980	1606. 630	
-28	1350. 680	1430. 000	1512.610	
-27	1273. 580	1347. 570	1424. 570	
-26	1201. 310	1270. 350	1342. 140	
-25	1133. 550	1198. 000	1264. 960	
-24	1070. 020	1130. 190	1192.670	
-23	1010. 440	1066. 650	1124. 960	
-22	954. 563	1007. 070	1061. 520	
-21	902. 128	951. 217	1002.070	
-20	852. 919	898. 820	946. 339	
-19	806. 721	849. 657	894. 074	

-18				
-16 684.272 719.495 755.849 -15 618.260 681.256 715.288 -14 614.388 645.311 677.180 -13 582.517 611.507 641.361 -12 552.516 579.703 607.680 -11 524.263 549.768 575.995 -10 497.644 521.579 546.174 -9 472.554 495.024 518.095 -8 448.895 469.995 491.645 -7 426.574 446.396 466.718 -6 405.508 424.134 443.215 -6 385.616 403.123 421.046 -4 366.825 383.286 400.125 -3 349.067 364.548 380.373 -2 332.277 346.840 361.716 -1 316.395 330.099 344.087 0 302.709 315.680 328.909 1 287.140 299.283 311.659 3 260.900 271.671 282.632 4 248.800 258.947 269.266 5 237.328 246.889 256.604 5 237.328 246.889 256.604 -7 216.119 224.614 233.232 -8 206.317 214.326 222.445 -9 197.009 204.561 212.211 -10 188.167 195.290 202.499 -11 179.765 186.484 193.279 -12 171.779 178.117 184.523 -13 164.185 170.165 176.205 -14 15.350 148.877 153.641 -17 137.323 142.088 143.868 -19 125.746 129.976 138.390 -19 125.746 129.976 138.390 -19 125.746 129.976 138.390 -10 12.211 -17 137.323 142.088 146.845 -19 12.211 -17 137.323 142.088 146.845 -19 12.2791 -19 12.2791 -19 12.2791 -19 12.2791 -19 12.2791 -19 12.2791 -19 12.28.390 -19 12.5746 129.976 134.226 -20 120.365 124.358 128.369 -19 127.090 100.000 103.000 -26 92.873 95.786 98.703 -29 81.604 84.272 86.949 -30 78.188 80.779 83.380	-18	763. 335	803. 514	845. 047
-15 648.260 681.256 715.288 -14 614.388 645.311 677.180 -13 582.517 611.507 641.361 -12 552.516 579.703 607.680 -11 524.263 549.768 575.995 -10 497.644 521.579 546.174 -9 472.554 495.024 518.095 -8 448.895 469.995 491.645 -7 426.574 446.396 466.718 -6 405.508 424.134 443.215 -5 385.616 403.123 421.046 -4 366.825 383.286 400.125 -3 349.067 364.548 380.373 -2 332.277 346.840 361.716 -1 316.395 330.099 344.087 0 302.709 315.680 328.909 1 287.140 299.283 311.659 3 260.900 271.671 282.632 4 248.800 258.947 269.266 5 237.328 246.889 256.604 6 226.445 235.457 244.606 7 216.119 224.614 233.232 8 206.317 214.326 222.445 9 197.009 204.561 212.211 10 188.167 195.290 202.499 11 179.765 186.484 193.279 12 171.779 1778.117 184.523 13 164.185 170.165 176.205 14 156.962 162.605 168.300 15 150.090 155.416 160.786 16 143.550 148.577 153.641 17 137.323 142.068 168.484 193.279 112 171.779 1778.117 184.523 13 164.185 170.165 176.205 14 156.962 162.605 168.300 15 150.090 155.416 160.786 16 143.550 148.577 153.641 17 137.323 142.068 146.845 18 131.394 135.874 140.380 19 125.746 129.976 134.226 20 120.365 124.358 128.369 21 115.237 119.008 122.791 22 110.348 113.909 117.479 23 105.686 109.049 112.418 24 101.241 100.417 17.796 25 97.000 100.000 103.000 26 92.873 95.786 98.703 27 88.938 91.767 94.602 28 85.185 87.932 90.687 29 81.604 84.272 86.949 30 78.188 80.779 83.380	-17	722. 577	760. 189	799. 039
-14 614.388 645.311 677.180 -13 582.517 611.507 641.361 -12 552.516 579.703 607.680 -11 524.263 549.768 575.995 -10 497.644 521.579 546.174 -9 472.554 495.024 518.095 -8 448.895 469.995 491.645 -7 426.574 446.396 466.718 -6 405.508 424.134 443.215 -5 385.616 403.123 421.046 -4 366.825 383.286 400.125 -3 349.067 364.548 380.373 -2 332.277 346.840 361.716 -1 316.395 330.099 344.087 0 302.709 315.680 328.909 1 287.140 299.283 311.659 3 260.900 271.671 282.632 4 248.800 258.947 269.266 5 226.445 235.457 244.606 7 216.119 224.614 233.232 8 206.317 214.226 222.445 9 197.009 204.581 212.211 10 188.167 195.290 202.499 11 179.765 186.484 193.279 12 171.779 178.117 184.523 13 164.185 170.165 166.786 16 143.550 148.577 153.641 17 137.323 142.068 146.845 18 131.394 135.874 140.380 19 125.746 129.976 136.845 18 131.394 135.874 140.380 19 125.746 129.976 134.266 20 120.365 124.358 128.399 11 115.237 119.008 122.791 22 110.348 131.399 117.479 23 105.686 109.049 112.418 14 160.786 122.791 22 110.348 133.909 117.479 23 105.686 109.049 112.418 24 101.241 104.417 107.596 25 97.000 100.000 103.000 26 92.873 95.786 98.703 27 88.938 91.767 94.602 28 85.185 87.932 90.687 29 81.604 84.272 86.949 30 78.188 80.779 83.380	-16	684. 272	719. 495	755. 849
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-11 524.263 549.768 575.995 -10 497.644 521.579 546.174 -9 472.554 495.024 518.095 -8 448.895 469.995 491.645 -7 426.574 446.396 466.718 -6 405.508 424.134 443.215 -5 385.616 403.123 421.046 -4 366.825 383.286 400.125 -3 349.067 364.548 380.373 -2 332.277 346.840 361.716 -1 316.395 330.099 344.087 0 302.709 315.680 328.909 1 287.140 299.283 311.659 3 260.900 271.671 282.632 4 248.800 258.947 269.266 5 237.328 246.889 256.604 6 226.445 235.457 244.606 7 216.119 224.614 233.232 8 206.317 214.326 222.445 9 197.009 204.561 212.211 10 188.167 195.290 202.499 11 179.765 186.494 193.279 12 171.779 178.117 184.523 13 164.185 170.165 176.205 14 156.962 162.605 168.300 15 150.090 155.416 160.786 16 143.550 148.577 153.641 17 137.323 142.068 146.845 18 131.394 135.874 140.380 19 125.746 129.976 134.226 20 120.365 124.358 128.369 21 115.237 119.008 122.791 22 110.348 113.999 117.479 23 105.686 109.049 117.479 23 105.686 109.049 117.479 24 101.241 104.417 107.596 25 97.000 100.000 103.000 26 92.873 95.786 98.703 27 88.988 91.767 94.602 28 85.185 87.932 90.687 29 81.604 84.272 86.949 30 78.188 80.779 83.380	-13	582. 517	611. 507	641. 361
-10	-12	552. 516	579. 703	607. 680
-9         472.554         495.024         518.095           -8         448.895         469.995         491.645           -7         426.574         446.396         466.718           -6         405.508         424.134         443.215           -5         385.616         403.123         421.046           -4         366.825         383.286         400.125           -3         349.067         364.548         380.373           -2         332.277         346.840         361.716           -1         316.395         330.099         344.087           0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         266.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211	-11	524. 263	549. 768	575. 995
-8         448.895         469.995         491.645           -7         426.574         446.396         466.718           -6         405.508         424.134         443.215           -5         385.616         403.123         421.046           -4         366.825         383.286         400.125           -3         349.067         364.548         380.373           -2         332.277         346.840         361.716           -1         316.395         330.099         344.087           0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499	-10	497. 644	521. 579	546. 174
-7         426,574         446,396         466,718           -6         405,508         424,134         443,215           -5         385,616         403,123         421,046           -4         366,825         383,286         400,125           -3         349,067         364,548         380,373           -2         332,277         346,840         361,716           -1         316,395         330,099         344,087           0         302,709         315,680         328,909           1         287,140         299,283         311,659           3         260,900         271,671         282,632           4         248,800         258,947         269,266           5         237,328         246,889         256,604           6         226,445         235,457         244,606           7         216,119         224,614         233,232           8         206,317         214,326         222,445           9         197,009         204,561         212,211           10         188,167         195,290         202,499           11         179,765         186,484         193,279	-9	472. 554	495. 024	518. 095
-6         405.508         424.134         443.215           -5         385.616         403.123         421.046           -4         366.825         383.286         400.125           -3         349.067         364.548         380.373           -2         332.277         346.840         361.716           -1         316.395         330.099         344.087           0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523	-8	448. 895	469. 995	491.645
-5         385.616         403.123         421.046           -4         366.825         383.286         400.125           -3         349.067         364.548         380.373           -2         332.277         346.840         361.716           -1         316.395         330.099         344.087           0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523           13         164.185         170.165         176.205	-7	426. 574	446. 396	466. 718
-4         366.825         383.286         400.125           -3         349.067         364.548         380.373           -2         332.277         346.840         361.716           -1         316.395         330.099         344.087           0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.467         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523           13         164.185         170.165         176.205           14         156.962         162.605         168.300	-6	405. 508	424. 134	443. 215
-3         349.067         364.548         380.373           -2         332.277         346.840         361.716           -1         316.395         330.099         344.087           0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523           13         164.185         170.165         176.205           14         156.962         162.605         168.300           15         150.090         155.416         160.786	-5	385. 616	403. 123	421. 046
-2         332.277         346.840         361.716           -1         316.395         330.099         344.087           0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523           13         164.185         170.165         176.205           14         156.962         162.605         168.300           15         150.090         155.416         160.786           16         143.550         148.577         153.641	-4	366. 825	383. 286	400. 125
-1         316.395         330.099         344.087           0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523           13         164.185         170.165         176.205           14         156.962         162.605         168.300           15         150.090         155.416         160.786           16         143.550         148.577         153.641           17         137.323         142.068         146.845	-3	349. 067	364. 548	380. 373
0         302.709         315.680         328.909           1         287.140         299.283         311.659           3         260.900         271.671         282.632           4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523           13         164.185         170.165         176.205           14         156.962         162.605         168.300           15         150.090         155.416         160.786           16         143.550         148.577         153.641           17         137.323         142.068         146.845           18         131.394         135.874         140.380	-2	332. 277	346. 840	361.716
1       287.140       299.283       311.659         3       260.900       271.671       282.632         4       248.800       258.947       269.266         5       237.328       246.889       256.604         6       226.445       235.457       244.606         7       216.119       224.614       233.232         8       206.317       214.326       222.445         9       197.009       204.561       212.211         10       188.167       195.290       202.499         11       179.765       186.484       193.279         12       171.779       178.117       184.523         13       164.185       170.165       176.205         14       156.962       162.605       168.300         15       150.090       155.416       160.786         16       143.550       148.577       153.641         17       137.323       142.068       146.845         18       131.394       135.874       140.380         19       125.746       129.976       134.226         20       120.365       124.358       128.369         21	-1	316. 395	330. 099	344. 087
3         260,900         271,671         282,632           4         248,800         258,947         269,266           5         237,328         246,889         256,604           6         226,445         235,457         244,606           7         216,119         224,614         233,232           8         206,317         214,326         222,445           9         197,009         204,561         212,211           10         188,167         195,290         202,499           11         179,765         186,484         193,279           12         171,779         178,117         184,523           13         164,185         170,165         176,205           14         156,962         162,605         168,300           15         150,090         155,416         160,786           16         143,550         148,577         153,641           17         137,323         142,068         146,845           18         131,394         135,874         140,380           19         125,746         129,976         134,226           20         120,365         124,358         128,369	0	302. 709	315. 680	328. 909
4         248.800         258.947         269.266           5         237.328         246.889         256.604           6         226.445         235.457         244.606           7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523           13         164.185         170.165         176.205           14         156.962         162.605         168.300           15         150.090         155.416         160.786           16         143.550         148.577         153.641           17         137.323         142.068         146.845           18         131.394         135.874         140.380           19         125.746         129.976         134.226           20         120.365         124.358         128.369           21         115.237         119.008         122.791 <th>1</th> <td>287. 140</td> <td>299. 283</td> <td>311.659</td>	1	287. 140	299. 283	311.659
5         237. 328         246. 889         256. 604           6         226. 445         235. 457         244. 606           7         216. 119         224. 614         233. 232           8         206. 317         214. 326         222. 445           9         197. 009         204. 561         212. 211           10         188. 167         195. 290         202. 499           11         179. 765         186. 484         193. 279           12         171. 779         178. 117         184. 523           13         164. 185         170. 165         176. 205           14         156. 962         162. 605         168. 300           15         150. 090         155. 416         160. 786           16         143. 550         148. 577         153. 641           17         137. 323         142. 068         146. 845           18         131. 394         135. 874         140. 380           19         125. 746         129. 976         134. 226           20         120. 365         124. 358         128. 369           21         115. 237         119. 008         122. 791           22         110. 348	3	260. 900	271.671	282. 632
6         226, 445         235, 457         244, 606           7         216, 119         224, 614         233, 232           8         206, 317         214, 326         222, 445           9         197, 009         204, 561         212, 211           10         188, 167         195, 290         202, 499           11         179, 765         186, 484         193, 279           12         171, 779         178, 117         184, 523           13         164, 185         170, 165         176, 205           14         156, 962         162, 605         168, 300           15         150, 090         155, 416         160, 786           16         143, 550         148, 577         153, 641           17         137, 323         142, 068         146, 845           18         131, 394         135, 874         140, 380           19         125, 746         129, 976         134, 226           20         120, 365         124, 358         128, 369           21         115, 237         119, 008         122, 791           22         110, 348         113, 909         117, 479           23         105, 686	4	248. 800	258. 947	269. 266
7         216.119         224.614         233.232           8         206.317         214.326         222.445           9         197.009         204.561         212.211           10         188.167         195.290         202.499           11         179.765         186.484         193.279           12         171.779         178.117         184.523           13         164.185         170.165         176.205           14         156.962         162.605         168.300           15         150.090         155.416         160.786           16         143.550         148.577         153.641           17         137.323         142.068         146.845           18         131.394         135.874         140.380           19         125.746         129.976         134.226           20         120.365         124.358         128.369           21         115.237         119.008         122.791           22         110.348         113.909         117.479           23         105.686         109.049         112.418           24         101.241         104.417         107.596     <	5	237. 328	246. 889	256. 604
8       206. 317       214. 326       222. 445         9       197. 009       204. 561       212. 211         10       188. 167       195. 290       202. 499         11       179. 765       186. 484       193. 279         12       171. 779       178. 117       184. 523         13       164. 185       170. 165       176. 205         14       156. 962       162. 605       168. 300         15       150. 090       155. 416       160. 786         16       143. 550       148. 577       153. 641         17       137. 323       142. 068       146. 845         18       131. 394       135. 874       140. 380         19       125. 746       129. 976       134. 226         20       120. 365       124. 358       128. 369         21       115. 237       119. 008       122. 791         22       110. 348       113. 909       117. 479         23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786	6	226. 445	235. 457	244. 606
9       197.009       204.561       212.211         10       188.167       195.290       202.499         11       179.765       186.484       193.279         12       171.779       178.117       184.523         13       164.185       170.165       176.205         14       156.962       162.605       168.300         15       150.090       155.416       160.786         16       143.550       148.577       153.641         17       137.323       142.068       146.845         18       131.394       135.874       140.380         19       125.746       129.976       134.226         20       120.365       124.358       128.369         21       115.237       119.008       122.791         22       110.348       113.909       117.479         23       105.686       109.049       112.418         24       101.241       104.417       107.596         25       97.000       100.000       103.000         26       92.873       95.786       98.703         27       88.938       91.767       94.602         28	7	216. 119	224. 614	233. 232
10         188. 167         195. 290         202. 499           11         179. 765         186. 484         193. 279           12         171. 779         178. 117         184. 523           13         164. 185         170. 165         176. 205           14         156. 962         162. 605         168. 300           15         150. 090         155. 416         160. 786           16         143. 550         148. 577         153. 641           17         137. 323         142. 068         146. 845           18         131. 394         135. 874         140. 380           19         125. 746         129. 976         134. 226           20         120. 365         124. 358         128. 369           21         115. 237         119. 008         122. 791           22         110. 348         113. 909         117. 479           23         105. 686         109. 049         112. 418           24         101. 241         104. 417         107. 596           25         97. 000         100. 000         103. 000           26         92. 873         95. 786         98. 703           27         88. 938	8	206. 317	214. 326	222. 445
11       179.765       186.484       193.279         12       171.779       178.117       184.523         13       164.185       170.165       176.205         14       156.962       162.605       168.300         15       150.090       155.416       160.786         16       143.550       148.577       153.641         17       137.323       142.068       146.845         18       131.394       135.874       140.380         19       125.746       129.976       134.226         20       120.365       124.358       128.369         21       115.237       119.008       122.791         22       110.348       113.909       117.479         23       105.686       109.049       112.418         24       101.241       104.417       107.596         25       97.000       100.000       103.000         26       92.873       95.786       98.703         27       88.938       91.767       94.602         28       85.185       87.932       90.687         29       81.604       84.272       86.949         30	9	197. 009	204. 561	212. 211
12       171.779       178.117       184.523         13       164.185       170.165       176.205         14       156.962       162.605       168.300         15       150.090       155.416       160.786         16       143.550       148.577       153.641         17       137.323       142.068       146.845         18       131.394       135.874       140.380         19       125.746       129.976       134.226         20       120.365       124.358       128.369         21       115.237       119.008       122.791         22       110.348       113.909       117.479         23       105.686       109.049       112.418         24       101.241       104.417       107.596         25       97.000       100.000       103.000         26       92.873       95.786       98.703         27       88.938       91.767       94.602         28       85.185       87.932       90.687         29       81.604       84.272       86.949         30       78.188       80.779       83.380	10	188. 167	195. 290	202. 499
13       164. 185       170. 165       176. 205         14       156. 962       162. 605       168. 300         15       150. 090       155. 416       160. 786         16       143. 550       148. 577       153. 641         17       137. 323       142. 068       146. 845         18       131. 394       135. 874       140. 380         19       125. 746       129. 976       134. 226         20       120. 365       124. 358       128. 369         21       115. 237       119. 008       122. 791         22       110. 348       113. 909       117. 479         23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	11	179. 765	186. 484	193. 279
14       156. 962       162. 605       168. 300         15       150. 090       155. 416       160. 786         16       143. 550       148. 577       153. 641         17       137. 323       142. 068       146. 845         18       131. 394       135. 874       140. 380         19       125. 746       129. 976       134. 226         20       120. 365       124. 358       128. 369         21       115. 237       119. 008       122. 791         22       110. 348       113. 909       117. 479         23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	12	171. 779	178. 117	184. 523
15         150.090         155.416         160.786           16         143.550         148.577         153.641           17         137.323         142.068         146.845           18         131.394         135.874         140.380           19         125.746         129.976         134.226           20         120.365         124.358         128.369           21         115.237         119.008         122.791           22         110.348         113.909         117.479           23         105.686         109.049         112.418           24         101.241         104.417         107.596           25         97.000         100.000         103.000           26         92.873         95.786         98.703           27         88.938         91.767         94.602           28         85.185         87.932         90.687           29         81.604         84.272         86.949           30         78.188         80.779         83.380	13	164. 185	170. 165	176. 205
16       143.550       148.577       153.641         17       137.323       142.068       146.845         18       131.394       135.874       140.380         19       125.746       129.976       134.226         20       120.365       124.358       128.369         21       115.237       119.008       122.791         22       110.348       113.909       117.479         23       105.686       109.049       112.418         24       101.241       104.417       107.596         25       97.000       100.000       103.000         26       92.873       95.786       98.703         27       88.938       91.767       94.602         28       85.185       87.932       90.687         29       81.604       84.272       86.949         30       78.188       80.779       83.380	14	156. 962	162. 605	168. 300
17       137. 323       142. 068       146. 845         18       131. 394       135. 874       140. 380         19       125. 746       129. 976       134. 226         20       120. 365       124. 358       128. 369         21       115. 237       119. 008       122. 791         22       110. 348       113. 909       117. 479         23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	15	150. 090	155. 416	160. 786
18       131. 394       135. 874       140. 380         19       125. 746       129. 976       134. 226         20       120. 365       124. 358       128. 369         21       115. 237       119. 008       122. 791         22       110. 348       113. 909       117. 479         23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	16	143. 550	148. 577	153. 641
19       125.746       129.976       134.226         20       120.365       124.358       128.369         21       115.237       119.008       122.791         22       110.348       113.909       117.479         23       105.686       109.049       112.418         24       101.241       104.417       107.596         25       97.000       100.000       103.000         26       92.873       95.786       98.703         27       88.938       91.767       94.602         28       85.185       87.932       90.687         29       81.604       84.272       86.949         30       78.188       80.779       83.380	17	137. 323	142. 068	146. 845
20       120. 365       124. 358       128. 369         21       115. 237       119. 008       122. 791         22       110. 348       113. 909       117. 479         23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	18	131. 394	135. 874	140. 380
21       115. 237       119. 008       122. 791         22       110. 348       113. 909       117. 479         23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	19	125. 746	129. 976	134. 226
22       110. 348       113. 909       117. 479         23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	20	120. 365	124. 358	128. 369
23       105. 686       109. 049       112. 418         24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	21	115. 237	119. 008	122. 791
24       101. 241       104. 417       107. 596         25       97. 000       100. 000       103. 000         26       92. 873       95. 786       98. 703         27       88. 938       91. 767       94. 602         28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	22	110. 348	113. 909	117. 479
25     97.000     100.000     103.000       26     92.873     95.786     98.703       27     88.938     91.767     94.602       28     85.185     87.932     90.687       29     81.604     84.272     86.949       30     78.188     80.779     83.380	23	105. 686	109. 049	112. 418
26       92.873       95.786       98.703         27       88.938       91.767       94.602         28       85.185       87.932       90.687         29       81.604       84.272       86.949         30       78.188       80.779       83.380	24	101. 241	104. 417	107. 596
27     88. 938     91. 767     94. 602       28     85. 185     87. 932     90. 687       29     81. 604     84. 272     86. 949       30     78. 188     80. 779     83. 380	25	97. 000	100.000	103. 000
28       85. 185       87. 932       90. 687         29       81. 604       84. 272       86. 949         30       78. 188       80. 779       83. 380	26	92. 873	95. 786	98. 703
29     81. 604     84. 272     86. 949       30     78. 188     80. 779     83. 380	27	88. 938	91. 767	94. 602
30 78. 188 80. 779 83. 380	28	85. 185	87. 932	90. 687
	29	81. 604	84. 272	86. 949
31 74. 928 77. 443 79. 970	30	78. 188	80.779	83. 380
	31	74. 928	77. 443	79. 970

32         71, 816         74, 288         76, 713           33         68, 845         71, 215         73, 601           34         66, 007         68, 309         70, 627           35         63, 298         65, 532         67, 783           36         60, 709         62, 878         65, 665           37         58, 236         60, 341         62, 466           38         55, 872         57, 916         59, 980           39         53, 614         55, 597         57, 602           40         51, 454         53, 380         55, 327           41         49, 390         51, 259         53, 151           42         47, 416         49, 230         51, 668           43         45, 528         47, 289         49, 074           44         43, 722         45, 432         47, 165           45         41, 995         43, 654         45, 338           46         40, 342         41, 952         43, 588           47         38, 760         40, 323         41, 912           48         37, 246         38, 764         40, 307           49         35, 797         37, 270         38, 769				
34         66.007         68.309         70.627           35         63.298         65.532         67.783           36         60.709         62.878         65.065           37         58.236         60.341         62.466           38         55.872         57.916         59.980           39         53.614         55.597         57.602           40         51.454         53.380         55.327           41         49.390         51.259         53.151           42         47.416         49.230         51.068           43         45.528         47.289         49.074           44         43.722         45.432         47.165           45         41.995         43.654         45.338           46         40.342         41.952         43.588           47         38.760         40.323         41.912           48         37.246         38.764         40.323         41.912           48         37.246         38.764         40.372         37.295           51         33.081         34.469         35.83         35.83           52         31.809         33.156 <t< td=""><td>32</td><td>71. 816</td><td>74. 258</td><td>76. 713</td></t<>	32	71. 816	74. 258	76. 713
35         63, 298         65, 532         67, 783           36         60, 709         62, 878         65, 065           37         58, 236         60, 341         62, 466           38         55, 872         57, 916         59, 980           39         53, 614         55, 597         57, 602           40         51, 454         53, 380         55, 327           41         49, 390         51, 259         53, 151           42         47, 416         49, 230         51, 068           43         45, 528         47, 289         49, 074           44         43, 722         45, 432         47, 165           45         41, 995         43, 654         45, 338           46         40, 342         41, 952         43, 588           47         38, 760         40, 323         41, 912           48         37, 246         38, 764         40, 307           49         35, 797         37, 270         38, 769           50         34, 409         35, 840         37, 295           51         33, 081         34, 469         35, 883           52         31, 809         33, 156         34, 530	33	68. 845	71. 215	73. 601
36         60.709         62.878         65.065           37         58.236         60.341         62.466           38         55.872         57.916         59.980           39         53.614         55.597         57.602           40         51.454         53.380         55.327           41         49.390         51.259         53.151           42         47.416         49.230         51.068           43         45.528         47.289         49.074           44         43.722         45.432         47.165           45         41.995         43.654         45.338           46         40.342         41.952         43.588           47         38.760         40.323         41.912           48         37.246         38.764         40.307           49         35.797         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.42	34	66.007	68.309	70. 627
37         58, 236         60, 341         62, 466           38         55, 872         57, 916         59, 980           39         53, 614         55, 597         57, 602           40         51, 454         53, 380         55, 327           41         49, 390         51, 259         53, 151           42         47, 416         49, 230         51, 068           43         45, 528         47, 289         49, 074           44         43, 722         45, 432         47, 165           45         41, 995         43, 654         45, 338           46         40, 342         41, 952         43, 588           47         38, 760         40, 323         41, 912           48         37, 246         38, 764         40, 307           49         35, 797         37, 270         38, 769           50         34, 409         35, 840         37, 295           51         33, 081         34, 469         35, 883           52         31, 809         33, 156         34, 530           53         30, 590         31, 898         33, 233           54         29, 423         30, 693         31, 989	35	63. 298	65. 532	67. 783
38         55.872         57.916         59.980           39         53.614         55.597         57.602           40         51.454         53.380         55.327           41         49.930         51.259         53.151           42         47.416         49.230         51.068           43         45.528         47.289         49.074           44         43.722         45.432         47.165           45         41.995         43.654         46.338           46         40.342         41.952         43.588           47         38.760         40.323         41.912           48         37.246         38.764         40.307           48         37.246         38.764         40.307           48         37.246         38.764         40.307           48         37.295         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.42	36	60.709	62.878	65. 065
39         53.614         55.597         57.602           40         51.454         53.380         55.327           41         49.390         51.259         53.151           42         47.416         49.230         51.068           43         45.528         47.289         49.074           44         43.722         45.432         47.165           45         41.995         43.654         45.338           46         40.342         41.952         43.588           47         38.760         40.323         41.912           48         37.246         38.764         40.307           49         35.797         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.644           57         26.20	37	58. 236	60.341	62. 466
40         51.454         53.380         55.327           41         49.390         51.259         53.151           42         47.416         49.230         51.068           43         45.528         47.289         49.074           44         43.722         45.432         47.165           45         41.995         43.654         45.338           46         40.342         41.952         43.588           47         38.760         40.323         41.912           48         37.246         38.764         40.307           49         35.797         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.644           57         26.205         27.568         25.527           59         24.27	38	55. 872	57. 916	59. 980
41         49.390         51.259         53.151           42         47.416         49.230         51.068           43         45.528         47.289         49.074           44         43.722         45.432         47.165           45         41.995         43.654         45.338           46         40.342         41.952         43.588           47         38.760         40.323         41.912           48         37.246         38.764         40.307           49         35.797         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.654           57         26.205         27.368         28.557           58         25.221         26.350         27.505           59         24.27	39	53.614	55. 597	57. 602
42         47, 416         49, 230         51, 068           43         45, 528         47, 289         49, 074           44         43, 722         45, 432         47, 165           45         41, 995         43, 654         45, 338           46         40, 342         41, 952         43, 588           47         38, 760         40, 323         41, 912           48         37, 246         38, 764         40, 307           49         35, 797         37, 270         38, 769           50         34, 409         35, 840         37, 295           51         33, 081         34, 469         35, 883           52         31, 809         33, 156         34, 530           53         30, 590         31, 898         33, 233           54         29, 423         30, 693         31, 989           55         28, 304         29, 538         30, 797           56         27, 232         28, 430         29, 654           57         26, 205         27, 368         28, 557           58         25, 221         26, 350         27, 505           59         24, 277         25, 374         26, 496	40	51. 454	53.380	55. 327
43         45, 528         47, 289         49, 074           44         43, 722         45, 432         47, 165           45         41, 995         43, 654         45, 338           46         40, 342         41, 952         43, 588           47         38, 760         40, 323         41, 912           48         37, 246         38, 764         40, 307           49         35, 797         37, 270         38, 769           50         34, 409         35, 840         37, 295           51         33, 081         34, 469         35, 883           52         31, 809         33, 156         34, 530           53         30, 590         31, 898         33, 233           54         29, 423         30, 693         31, 989           55         28, 304         29, 538         30, 797           56         27, 232         28, 430         29, 654           57         26, 205         27, 368         28, 557           58         25, 221         26, 350         27, 505           59         24, 277         25, 374         26, 496           60         23, 373         24, 437         25, 528	41	49. 390	51.259	53. 151
44         43.722         45.432         47.165           45         41.995         43.654         45.338           46         40.342         41.952         43.588           47         38.760         40.323         41.912           48         37.246         38.764         40.307           49         35.797         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.654           57         26.205         27.368         28.557           58         25.221         26.350         27.505           59         24.277         25.374         26.496           60         23.373         24.437         25.528           61         22.505         23.539         24.599           62         21.67	42	47. 416	49. 230	51.068
45         41, 995         43, 654         45, 338           46         40, 342         41, 952         43, 588           47         38, 760         40, 323         41, 912           48         37, 246         38, 764         40, 307           49         35, 797         37, 270         38, 769           50         34, 409         35, 840         37, 295           51         33, 081         34, 469         35, 883           52         31, 809         33, 156         34, 530           53         30, 590         31, 898         33, 233           54         29, 423         30, 693         31, 989           55         28, 304         29, 538         30, 797           56         27, 232         28, 430         29, 654           57         26, 205         27, 368         28, 557           58         25, 221         26, 350         27, 505           59         24, 277         25, 374         26, 496           60         23, 373         24, 437         25, 528           61         22, 505         23, 539         24, 599           62         21, 673         22, 678         23, 707	43	45. 528	47. 289	49. 074
46         40.342         41.952         43.588           47         38.760         40.323         41.912           48         37.246         38.764         40.307           49         35.797         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.654           57         26.205         27.368         28.557           58         25.221         26.350         27.505           59         24.277         25.374         26.496           60         23.373         24.437         25.528           61         22.505         23.539         24.599           62         21.673         22.678         23.707           63         20.875         21.851         22.851           64         20.11	44	43.722	45. 432	47. 165
47         38.760         40.323         41.912           48         37.246         38.764         40.307           49         35.797         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.654           57         26.205         27.368         28.557           58         25.221         26.350         27.505           59         24.277         25.374         26.496           60         23.373         24.437         25.528           61         22.505         23.539         24.599           62         21.673         22.678         23.707           63         20.875         21.851         22.851           64         20.110         21.057         22.030           65         19.37	45	41. 995	43.654	45. 338
48         37, 246         38, 764         40, 307           49         35, 797         37, 270         38, 769           50         34, 409         35, 840         37, 295           51         33, 081         34, 469         35, 883           52         31, 809         33, 156         34, 530           53         30, 590         31, 898         33, 233           54         29, 423         30, 693         31, 989           55         28, 304         29, 538         30, 797           56         27, 232         28, 430         29, 654           57         26, 205         27, 368         28, 557           58         25, 221         26, 350         27, 505           59         24, 277         25, 374         26, 496           60         23, 373         24, 437         25, 528           61         22, 505         23, 539         24, 599           62         21, 673         22, 678         23, 707           63         20, 875         21, 851         22, 851           64         20, 110         21, 057         22, 030           65         19, 376         20, 296         21, 241	46	40.342	41.952	43. 588
49         35.797         37.270         38.769           50         34.409         35.840         37.295           51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.654           57         26.205         27.368         28.557           58         25.221         26.350         27.505           59         24.277         25.374         26.496           60         23.373         24.437         25.528           61         22.505         23.539         24.599           62         21.673         22.678         23.707           63         20.875         21.851         22.851           64         20.110         21.057         22.030           65         19.376         20.296         21.241           66         18.671         19.565         20.483           67         17.99	47	38. 760	40.323	41. 912
50         34, 409         35, 840         37, 295           51         33, 081         34, 469         35, 883           52         31, 809         33, 156         34, 530           53         30, 590         31, 898         33, 233           54         29, 423         30, 693         31, 989           55         28, 304         29, 538         30, 797           56         27, 232         28, 430         29, 654           57         26, 205         27, 368         28, 557           58         25, 221         26, 350         27, 505           59         24, 277         25, 374         26, 496           60         23, 373         24, 437         25, 528           61         22, 505         23, 539         24, 599           62         21, 673         22, 678         23, 707           63         20, 875         21, 851         22, 851           64         20, 110         21, 057         22, 030           65         19, 376         20, 296         21, 241           66         18, 671         19, 565         20, 483           67         17, 995         18, 863         19, 756	48	37. 246	38.764	40. 307
51         33.081         34.469         35.883           52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.654           57         26.205         27.368         28.557           58         25.221         26.350         27.505           59         24.277         25.374         26.496           60         23.373         24.437         25.528           61         22.505         23.539         24.599           62         21.673         22.678         23.707           63         20.875         21.851         22.851           64         20.110         21.057         22.030           65         19.376         20.296         21.241           66         18.671         19.565         20.483           67         17.995         18.863         19.756           68         17.346         18.189         19.057           69         16.72	49	35. 797	37. 270	38. 769
52         31.809         33.156         34.530           53         30.590         31.898         33.233           54         29.423         30.693         31.989           55         28.304         29.538         30.797           56         27.232         28.430         29.654           57         26.205         27.368         28.557           58         25.221         26.350         27.505           59         24.277         25.374         26.496           60         23.373         24.437         25.528           61         22.505         23.539         24.599           62         21.673         22.678         23.707           63         20.875         21.851         22.851           64         20.110         21.057         22.030           65         19.376         20.296         21.241           66         18.671         19.565         20.483           67         17.995         18.863         19.756           68         17.346         18.189         19.057           69         16.723         17.542         18.386           70         16.12	50	34. 409	35.840	37. 295
53         30,590         31,898         33,233           54         29,423         30,693         31,989           55         28,304         29,538         30,797           56         27,232         28,430         29,654           57         26,205         27,368         28,557           58         25,221         26,350         27,505           59         24,277         25,374         26,496           60         23,373         24,437         25,528           61         22,505         23,539         24,599           62         21,673         22,678         23,707           63         20,875         21,851         22,851           64         20,110         21,057         22,030           65         19,376         20,296         21,241           66         18,671         19,565         20,483           67         17,995         18,863         19,756           68         17,346         18,189         19,057           69         16,723         17,542         18,386           70         16,124         16,921         17,741           71         15,55	51	33. 081	34. 469	35. 883
54         29. 423         30. 693         31. 989           55         28. 304         29. 538         30. 797           56         27. 232         28. 430         29. 654           57         26. 205         27. 368         28. 557           58         25. 221         26. 350         27. 505           59         24. 277         25. 374         26. 496           60         23. 373         24. 437         25. 528           61         22. 505         23. 539         24. 599           62         21. 673         22. 678         23. 707           63         20. 875         21. 851         22. 851           64         20. 110         21. 057         22. 030           65         19. 376         20. 296         21. 241           66         18. 671         19. 565         20. 483           67         17. 995         18. 863         19. 756           68         17. 346         18. 189         19. 057           69         16. 723         17. 542         18. 386           70         16. 124         16. 921         17. 741           71         15. 550         16. 324         17. 122	52	31.809	33. 156	34. 530
55         28. 304         29. 538         30. 797           56         27. 232         28. 430         29. 654           57         26. 205         27. 368         28. 557           58         25. 221         26. 350         27. 505           59         24. 277         25. 374         26. 496           60         23. 373         24. 437         25. 528           61         22. 505         23. 539         24. 599           62         21. 673         22. 678         23. 707           63         20. 875         21. 851         22. 851           64         20. 110         21. 057         22. 030           65         19. 376         20. 296         21. 241           66         18. 671         19. 565         20. 483           67         17. 995         18. 863         19. 756           68         17. 346         18. 189         19. 057           69         16. 723         17. 542         18. 386           70         16. 124         16. 921         17. 741           71         15. 550         16. 324         17. 122           72         14. 999         15. 751         16. 526	53	30. 590	31.898	33. 233
56         27. 232         28. 430         29. 654           57         26. 205         27. 368         28. 557           58         25. 221         26. 350         27. 505           59         24. 277         25. 374         26. 496           60         23. 373         24. 437         25. 528           61         22. 505         23. 539         24. 599           62         21. 673         22. 678         23. 707           63         20. 875         21. 851         22. 851           64         20. 110         21. 057         22. 030           65         19. 376         20. 296         21. 241           66         18. 671         19. 565         20. 483           67         17. 995         18. 863         19. 756           68         17. 346         18. 189         19. 057           69         16. 723         17. 542         18. 386           70         16. 124         16. 921         17. 741           71         15. 550         16. 324         17. 122           72         14. 999         15. 751         16. 526           73         14. 469         15. 200         15. 954	54	29. 423	30.693	31. 989
57         26. 205         27. 368         28. 557           58         25. 221         26. 350         27. 505           59         24. 277         25. 374         26. 496           60         23. 373         24. 437         25. 528           61         22. 505         23. 539         24. 599           62         21. 673         22. 678         23. 707           63         20. 875         21. 851         22. 851           64         20. 110         21. 057         22. 030           65         19. 376         20. 296         21. 241           66         18. 671         19. 565         20. 483           67         17. 995         18. 863         19. 756           68         17. 346         18. 189         19. 057           69         16. 723         17. 542         18. 386           70         16. 124         16. 921         17. 741           71         15. 550         16. 324         17. 122           72         14. 999         15. 751         16. 526           73         14. 469         15. 200         15. 954           74         13. 960         14. 671         15. 404	55	28. 304	29. 538	30. 797
58         25. 221         26. 350         27. 505           59         24. 277         25. 374         26. 496           60         23. 373         24. 437         25. 528           61         22. 505         23. 539         24. 599           62         21. 673         22. 678         23. 707           63         20. 875         21. 851         22. 851           64         20. 110         21. 057         22. 030           65         19. 376         20. 296         21. 241           66         18. 671         19. 565         20. 483           67         17. 995         18. 863         19. 756           68         17. 346         18. 189         19. 057           69         16. 723         17. 542         18. 386           70         16. 124         16. 921         17. 741           71         15. 550         16. 324         17. 122           72         14. 999         15. 751         16. 526           73         14. 469         15. 200         15. 954           74         13. 960         14. 671         15. 404           75         13. 471         14. 162         14. 875	56	27. 232	28. 430	29. 654
59         24. 277         25. 374         26. 496           60         23. 373         24. 437         25. 528           61         22. 505         23. 539         24. 599           62         21. 673         22. 678         23. 707           63         20. 875         21. 851         22. 851           64         20. 110         21. 057         22. 030           65         19. 376         20. 296         21. 241           66         18. 671         19. 565         20. 483           67         17. 995         18. 863         19. 756           68         17. 346         18. 189         19. 057           69         16. 723         17. 542         18. 386           70         16. 124         16. 921         17. 741           71         15. 550         16. 324         17. 122           72         14. 999         15. 751         16. 526           73         14. 469         15. 200         15. 954           74         13. 960         14. 671         15. 404           75         13. 471         14. 162         14. 875           76         13. 001         13. 673         14. 366	57	26. 205	27. 368	28. 557
60         23.373         24.437         25.528           61         22.505         23.539         24.599           62         21.673         22.678         23.707           63         20.875         21.851         22.851           64         20.110         21.057         22.030           65         19.376         20.296         21.241           66         18.671         19.565         20.483           67         17.995         18.863         19.756           68         17.346         18.189         19.057           69         16.723         17.542         18.386           70         16.124         16.921         17.741           71         15.550         16.324         17.122           72         14.999         15.751         16.526           73         14.469         15.200         15.954           74         13.960         14.671         15.404           75         13.471         14.162         14.875           76         13.001         13.673         14.366           77         12.550         13.203         13.877           78         12.11	58	25. 221	26. 350	27. 505
61         22.505         23.539         24.599           62         21.673         22.678         23.707           63         20.875         21.851         22.851           64         20.110         21.057         22.030           65         19.376         20.296         21.241           66         18.671         19.565         20.483           67         17.995         18.863         19.756           68         17.346         18.189         19.057           69         16.723         17.542         18.386           70         16.124         16.921         17.741           71         15.550         16.324         17.122           72         14.999         15.751         16.526           73         14.469         15.200         15.954           74         13.960         14.671         15.404           75         13.471         14.162         14.875           76         13.001         13.673         14.366           77         12.550         13.203         13.877           78         12.116         12.751         13.407           79         11.69	59	24. 277	25. 374	26. 496
62       21. 673       22. 678       23. 707         63       20. 875       21. 851       22. 851         64       20. 110       21. 057       22. 030         65       19. 376       20. 296       21. 241         66       18. 671       19. 565       20. 483         67       17. 995       18. 863       19. 756         68       17. 346       18. 189       19. 057         69       16. 723       17. 542       18. 386         70       16. 124       16. 921       17. 741         71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	60	23. 373	24. 437	25. 528
63       20. 875       21. 851       22. 851         64       20. 110       21. 057       22. 030         65       19. 376       20. 296       21. 241         66       18. 671       19. 565       20. 483         67       17. 995       18. 863       19. 756         68       17. 346       18. 189       19. 057         69       16. 723       17. 542       18. 386         70       16. 124       16. 921       17. 741         71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	61	22. 505	23. 539	24. 599
64         20. 110         21. 057         22. 030           65         19. 376         20. 296         21. 241           66         18. 671         19. 565         20. 483           67         17. 995         18. 863         19. 756           68         17. 346         18. 189         19. 057           69         16. 723         17. 542         18. 386           70         16. 124         16. 921         17. 741           71         15. 550         16. 324         17. 122           72         14. 999         15. 751         16. 526           73         14. 469         15. 200         15. 954           74         13. 960         14. 671         15. 404           75         13. 471         14. 162         14. 875           76         13. 001         13. 673         14. 366           77         12. 550         13. 203         13. 877           78         12. 116         12. 751         13. 407           79         11. 699         12. 316         12. 954	62	21. 673	22. 678	23. 707
65       19. 376       20. 296       21. 241         66       18. 671       19. 565       20. 483         67       17. 995       18. 863       19. 756         68       17. 346       18. 189       19. 057         69       16. 723       17. 542       18. 386         70       16. 124       16. 921       17. 741         71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	63	20.875	21.851	22. 851
66       18. 671       19. 565       20. 483         67       17. 995       18. 863       19. 756         68       17. 346       18. 189       19. 057         69       16. 723       17. 542       18. 386         70       16. 124       16. 921       17. 741         71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	64	20. 110	21.057	22. 030
67       17. 995       18. 863       19. 756         68       17. 346       18. 189       19. 057         69       16. 723       17. 542       18. 386         70       16. 124       16. 921       17. 741         71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	65	19. 376	20. 296	21. 241
68       17. 346       18. 189       19. 057         69       16. 723       17. 542       18. 386         70       16. 124       16. 921       17. 741         71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	66	18. 671	19. 565	20. 483
69       16. 723       17. 542       18. 386         70       16. 124       16. 921       17. 741         71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	67	17. 995	18.863	19. 756
70       16. 124       16. 921       17. 741         71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	68	17. 346	18. 189	19. 057
71       15. 550       16. 324       17. 122         72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	69	16. 723	17. 542	18. 386
72       14. 999       15. 751       16. 526         73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	70	16. 124	16. 921	17. 741
73       14. 469       15. 200       15. 954         74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	71	15. 550	16. 324	17. 122
74       13. 960       14. 671       15. 404         75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	72	14. 999	15. 751	16. 526
75       13. 471       14. 162       14. 875         76       13. 001       13. 673       14. 366         77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	73	14. 469	15. 200	15. 954
76       13.001       13.673       14.366         77       12.550       13.203       13.877         78       12.116       12.751       13.407         79       11.699       12.316       12.954	74	13. 960	14. 671	15. 404
77       12. 550       13. 203       13. 877         78       12. 116       12. 751       13. 407         79       11. 699       12. 316       12. 954	75	13. 471	14. 162	14. 875
78     12. 116     12. 751     13. 407       79     11. 699     12. 316     12. 954	76	13. 001	13. 673	14. 366
79 11. 699 12. 316 12. 954	77	12. 550	13. 203	13. 877
	78	12. 116	12. 751	13. 407
80 11. 298 11. 898 12. 519	79	11. 699	12. 316	12. 954
	80	11. 298	11.898	12. 519

81	10. 913	11. 496	12. 100
82	10. 542	11. 109	11. 697
83	10. 185	10. 737	11. 309
84	9.842	10. 379	10. 935
85	9. 512	10. 035	10. 576
86	9. 195	9. 703	10. 230
87	8. 889	9. 383	9.896
88	8. 595	9. 076	9. 575
89	8. 312	8. 780	9. 266
90	8. 039	8. 495	8. 968
91	7. 777	8. 220	8. 681
92	7. 524	7. 956	8. 404
93	7. 281	7. 701	8. 138
94	7. 046	7. 455	7. 881
95	6. 820	7. 219	7. 633
96	6. 603	6. 990	7. 394
97	6. 393	6. 770	7. 164
98	6. 191	6. 558	6. 942
99	5. 996	6. 354	6. 727
100	5. 823	6. 173	6. 537
101	5. 627	5. 966	6. 321
102	5. 452	5. 783	6. 129
103	5. 283	5. 606	5. 943
104	5. 121	5. 435	5. 763
105	4. 964	5. 270	5. 590
106	4. 812	5. 111	5. 423
107	4. 666	4. 957	5. 262
108	4. 525	4. 809	5. 106
109	4. 389	4. 666	4. 955
110	4. 258	4. 527	4.810
111	4. 131	4. 394	4.669
112	4. 008	4. 264	4. 533
113	3. 890	4. 140	4. 402
114	3. 775	4. 019	4. 275
115	3. 665	3. 903	4. 152
116	3. 558	3. 790	4. 034
117	3. 455	3. 681	3. 919
118	3. 355	3. 576	3.808
119	3. 258	3. 474	3. 701
120	3. 165	3. 376	3. 597
121	3. 075	3. 280	3. 496
122	2. 988	3. 188	3. 399
123	2. 903	3. 099	3. 305
124	2. 822	3. 013	3. 214
125	2. 743	2. 929	3. 126