


|  | $\left[\begin{array}{ccc}\mathbf{n} & \text { mean } & \text { sd } \\ 30 & 50.26 & 10.45 \\ 30 & 45.32 & 12.76 \\ 30 & 53.67 & 11.47\end{array}\right]$ |  |  |
| :---: | :---: | :---: | :---: |
| Q-11 | a) What is alpha and beta risk associated with sampling? Draw standard OC curve to explain this. <br> b) When is the best time in the product development process to do QFD? What is the difference between "voice of the customer" (VOC) and customer needs? Draw a diagram of "standard QFD "and explain each block of it? | $\begin{gathered} 20 \\ (\mathbf{1 0 + 1 0}) \end{gathered}$ | CO4 |

STAMDARD NORMAL DISTRIBUTION: Table Values Reprecent AREA to the LEFT of the Zeore.

| 2 | . 0 | 41 | 12 | 013 | . 04 | 115 | . 06 | 17 | - ${ }^{\text {dia }}$ | 169 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -3.9 | , 00006 | 0005 | 00004 | .0004 | ,0004 | 6004 | 10004 | .0004 | 00013 | 00003 |
| -38 | . 00007 | ,0007 | 00007 | .0006 | .0006 | 60016 | 10006 | .0000 | 00005 | D008 |
| -3.7 | . 00011 | 1000 | 00010 | , 00010 | .00094 | 60009 | 10006 | .00004 | 60008 | 00006 |
| . 36 | 0.00016 | 00015 | 00015 | 000014 | 0.0014 | 00013 | 100013 | 00012 | 00012 | 1000111 |
| . 3.5 | .0003 | 00022 | 00022 | D0021 | 00020 | 00019 | 100019 | .00018 | 00017 | 100017 |
| -3.4 | .0064 | 00062 | 00031 | , 00000 | ,0029 | 60028 | 100027 | .0026 | 00025 | D0124 |
| -3. 3 | . 00048 | 0047 | 0004 | . 00043 | .0042 | 60040 | 100099 | , 000088 | 00036 | 00135 |
| -312 | . 00009 | N006 | 00064 | .00062 | ,0000) | 00058 | 10036 | ,00004 | 00052 | 10060 |
| -3.1 | , 00097 | ,0004 | 60090 | .00097 | ,0004 | 60022 | 10079 | .0076 | 90074 | 100071 |
| -3.1) | . 00135 | (0)131 | 601\% | 00122 | ,00118 | 60114 | 1001111 | 00107 | 00104 | 100100 |
| 2.2 | . 00187 | .0181 | 00175 | . 00169 | .0104 | 60159 | 00154 | .00149 | 0014 | 00139 |
| -28 | . 00026 | .00248 | 00240 | . 00223 | .00226 | 6019 | 00212 | . 000015 | 60199 | 00198 |
| -27 | . 00347 | 0036 | 603\% | .00317 | .01307 | 60298 | 10289 | .00280 | 00272 | 0084 |
| -26 | . 00466 | 0043 | 00440 | . 00427 | .0415 | 60402 | 100931 | .00779 | 00668 | 00367 |
| 2.5 | , 00621 | (10)4 4 | 00587 | 00570 | , 0 H54 | 00639 | 100523 | , 0 H080 | 00494 | 10450 |
| -2.4 | .00620 | (074) | 0077 | . 00785 | ,00734 | 6014 | 10095 | .00576 | 0065 | 00499 |
| 2.3 | . 01072 | 0104 | 00017 | .00990 | , 0 P\% 4 | 60439 | 100914 | .0089 | 00866 | 10042 |
| -12 | . 01330 | . 01315 | 01321 | . 01287 | . 01235 | 01222 | 101191 | . 011160 | 01130 | 01101 |
| -21 | . 0176 | 01743 | 0170 | . 01649 | . 01618 | 01578 | 01539 | . 01500 | 01463 | 101426 |
| 2.11 | . 02275 | 0.0212 | 0169 | 02118 | . 012068 | 02018 | 01970 | 010192 | . 01876 | 01831 |
| -1.9 | . 02872 | . 12307 | 02743 | .08601 | .10819 | 0859 | 11250 | . 02442 | 02785 | 02330 |
| -19 | .0393 | . 13515 | 06438 | .0382 | .03288 | 03216 | 03144 | . 03074 | 00005 | 02983 |
| -1.7 | . 04467 | . 44363 | 04272 | . 04182 | . 14093 | 04046 | 03920 | . 03336 | 03754 | 03673 |
| -16 | . 05480 | . 6330 | 06262 | . 05158 | .05060 | 04447 | 104846 | . 04746 | .04648 | 14451 |
| -1.5 | .0664 | , 0 St2 | 6648 | , 06301 | . 106178 | $0 \times 157$ | 10593 | . 0.521 | 08705 | $00^{3} \mathbf{2} 2$ |
| -1.4 | .0xi76 | .17927 | 07760 | . 07646 | . 07493 | 07153 | 17215 | . 07078 | 0844 | 166811 |
| -1.3 | . 0480 | 13810 | 04342 | . 09176 | , 10012 | -0451 | 108401 | .08834 | 60379 | 10822 |
| -1. 1 | . 11507 | . 11314 | -11123 | . 10985 | .10749 | .1065 | 1038 | .1004 | .10027 | 0983 |
| -1.I | .1387 | . 13350 | -1313 | . 12924 | . 12714 | .12407 | . 12302 | . 12100 | .11906 | 1172 |
| -1.11 | . 1546 | . 15625 | .1538 | . 15151 | 14917 | .146\% | 1459 | . 14231 | .14007 | 1378 |
| -1.9 | .18406 | . 18141 | .17879 | . 17619 | . 17361 | .17106 | 1683 | . 16012 | .16354 | 16109 |
| -18 | . 21116 | 20497 | 20611 | . 20327 | 20045 | .19766 | 1449 | . 12215 | .18443 | 18673 |
| 4.7 | . $241 \%$ | 2384 | 2357 | . 21270 | 2206 | 22663 | 2136 | 27065 | 21770 | 21476 |
| 46 | . 27425 | 27043 | 2676 | 26435 | 26109 | 28785 | 25463 | 25143 | 24825 | 24510 |
| -15 | ,3084 | 3093 | 3015 | 29060 | 2460 | 29116 | 28774 | 28434 | 21980 | 27760 |
| 4.4 | . 3448 | . 3040 | 33724 | . 31360 | 3897 | 32636 | 32776 | 31918 | 31561 | 31207 |
| -13 | . 38209 | 372\% | 3744 | . 37070 | 3693 | 3617 | 3542 | 3564 | 35197 | 34827 |
| -11 | . 48074 | .4163 | . 41294 | 40906 | 4617 | .40129 | 39743 | 3988 | 33974 | 3893911 |
| -1.1 | . 46017 | 48620 | . 45224 | 44888 | 4433 | . 44038 | 43644 | 43251 | . 42858 | .42465 |
| -111) | . 30000 | 4,401 | -4920 | 48068 | 48405 | 40006 | 47604 | . 47210 | 40812 | 46414 |

STANDARD NORMAL DISTRIBUTION: Table Values Represent AREA to the LEFT of the Z score.

| Z | . 00 | . 01 | 02 | . 03 | . 04 | 05 | . 06 | . 17 | .088 | . 09 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.0 | . 50000 | . 50399 | 50798 | . 51197 | . 51595 | 51994 | 52392 | . 52790 | 53188 | 53536 |
| 0.1 | . 53983 | . 44380 | 54776 | . 55172 | . 55567 | 55962 | 56356 | . 56749 | 57142 | 57535 |
| 0.2 | . 57926 | . 58317 | 58706 | . 59085 | . 59483 | 59871 | 60257 | . 60642 | . 61026 | 61409 |
| 0.3 | . 61791 | . 621772 | 62552 | . 62930 | . 63307 | . 63683 | . 64058 | . 64431 | . 64803 | 65173 |
| 0.4 | . 65542 | . 6.5910 | . 66276 | 66640 | . 67003 | . 67364 | 67724 | .68082 | .63439 | 68793 |
| 0.5 | . 69146 | . 69497 | . 69847 | . 70194 | . 70540 | . 70884 | . 71226 | . 71566 | . 71904 | . 72240 |
| 0.6 | . 72575 | . 72907 | . 73237 | . 73565 | . 73891 | . 74215 | .74537 | .74857 | . 75175 | . 75490 |
| 0.7 | . 75804 | . 76115 | . 76424 | . 76730 | . 77035 | . 77337 | .77637 | . 77935 | . 78230 | . 78524 |
| 0.8 | . 78814 | . 79103 | . 79389 | . 79673 | . 79955 | 80234 | 80511 | . 80785 | 81057 | 81327 |
| 0.9 | . 81594 | 81859 | 82121 | 82351 | 82639 | 82894 | 83147 | 83398 | 83646 | 83891 |
| 1.0 | . 84134 | . 84375 | 34614 | . 84849 | . 85083 | 85314 | 85543 | .85769 | 85993 | 86214 |
| 1.1 | . 86433 | .86650 | . 86864 | . 87076 | . 87286 | 87493 | 87698 | 87900 | 88100 | 88298 |
| 1.2 | . 88.893 | .85686 | 88877 | . 89065 | .89251 | 89435 | 89617 | . 89796 | 89973 | 90147 |
| 1.3 | . 90320 | . 90490 | .90658 | . 90824 | . 90988 | . 91149 | 91309 | . 91466 | 91621 | 91774 |
| 1.4 | . 91924 | 92073 | . 92220 | 92364 | . 92507 | . 92647 | 92785 | . 92922 | . 93056 | 93189 |
| 1.5 | . 93319 | . 93448 | . 93574 | . 93699 | . 93822 | 93943 | 94062 | . 94179 | . 94295 | 94408 |
| 1.6 | . 94520 | . 94630 | .94738 | . 94845 | 94950 | . 95053 | 95154 | . 95254 | . 95352 | 95449 |
| 1.7 | . 95543 | . 95637 | .95728 | . 95818 | . 95907 | . 95994 | 96050 | . 96164 | .96246 | 96327 |
| 1.8 | . 96407 | . 96485 | \%6562 | . 96638 | . 96712 | . 96784 | 96856 | . 96926 | .96995 | 97062 |
| 1.9 | . 97128 | . 97193 | 97257 | 97320 | . 97381 | . 97441 | 97500 | . 97558 | . 97615 | 97670 |
| 2.0 | . 97725 | . 97778 | . 97831 | . 97882 | . 97932 | . 97982 | 98030 | . 98077 | . 98124 | 98169 |
| 2.1 | . 98214 | . 98257 | . 88300 | . 98341 | . 98382 | . 98422 | 98461 | . 98500 | . 98537 | 98574 |
| 2.2 | . 98610 | . 96645 | . 98679 | . 98713 | . 98745 | . 98778 | 98809 | . 98840 | . 98870 | 98899 |
| 2.3 | . 98928 | . 98956 | .98983 | . 99010 | . 99036 | .99061 | 99056 | .99111 | . 99134 | 99158 |
| 2.4 | .99130 | 99202 | 99224 | 99245 | . 99266 | . 99286 | 99305 | . 99324 | . 99343 | 99361 |
| 2.5 | . 99379 | . 99396 | . 99413 | . 99430 | . 99446 | . 99461 | 99477 | . 99492 | . 99506 | 99520 |
| 2.6 | . 99534 | . 99547 | .99560 | . 99573 | . 99585 | . 99598 | 99609 | . 99621 | 99\%32 | 99643 |
| 2.7 | . 99653 | . 99664 | . 99674 | . 99683 | .99693 | . 99702 | 99711 | . 99720 | . 99728 | 99736 |
| 2.8 | . 99744 | . 99752 | . 99760 | . 99767 | . 99774 | . 99781 | 99788 | . 99795 | . 99801 | 99807 |
| 2.9 | . 99813 | . 99819 | 99825 | . 99831 | . 99836 | . 998841 | 99846 | .99851 | .99856 | 99861 |
| 3.0 | . 99865 | . 99869 | . 99874 | . 99878 | . 99882 | . 99888 | 99889 | . 99893 | . 99896 | 99900 |
| 3.1 | . 99903 | . 99906 | . 99910 | . 99913 | . 99916 | 99918 | 99921 | . 99924 | . 99926 | 99929 |
| 3.2 | . 99931 | . 99994 | .99936 | . 99998 | . 99940 | . 99942 | 99944 | . 99946 | .99948 | 99950 |
| 3.3 | . 99952 | . 99953 | .99955 | . 99957 | . 99958 | . 99960 | 99961 | .99\%62 | . 99964 | 99965 |
| 3.4 | . 99966 | .99968 | 99969 | . 99970 | . 99971 | . 99972 | 99973 | . 99974 | . 99975 | 99976 |
| 3.5 | . 99977 | . 99978 | . 99978 | . 99979 | . 99980 | . 99981 | 99981 | . 99982 | . 99983 | 99983 |
| 3.6 | . 99984 | . 99988 | .99985 | . 99956 | . 99986 | .99987 | 99987 | .99888 | .99988 | 99989 |
| 3.7 | . 99989 | . 99990 | . 99990 | . 99990 | . 99991 | 99991 | 99992 | . 99992 | . 99992 | 99992 |
| 3.8 | . 99993 | . 99993 | . 99993 | . 99994 | . 99994 | 99994 | 99994 | . 99995 | . 99995 | 99995 |
| 3.9 | . 99995 | 99995 | .99996 | 999\% | . 99996 | . 99996 | 99996 | .99996 | . 99997 | 99997 |


|  | F-table of Critical Values of $\alpha=0.01$ for F(df1, df2) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | DF1=1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 15 | 20 | 24 | 30 | 40 | 60 | 120 | $\infty$ |
| DF2=1 | 4052.18 | 4999.50 | 5403.35 | 5624.58 | 5763.65 | 5858.99 | 5928.36 | 5981.07 | 6022.47 | 6055.85 | 6106.32 | 6157.29 | 6208.73 | 6234.63 | 6260.65 | 6286.78 | 6313.03 | 6339.39 | 6365.86 |
| 2 | 98.50 | 99.00 | 99.17 | 99.25 | 99.30 | 99.33 | 99.36 | 99.37 | 99.39 | 99.40 | 99.42 | 99.43 | 99.45 | 99.46 | 99.47 | 99.47 | 99.48 | 99.49 | 99.50 |
| 3 | 34.12 | 30.82 | 29.46 | 28.71 | 28.24 | 27.91 | 27.67 | 27.49 | 27.35 | 27.23 | 27.05 | 26.87 | 26.69 | 26.60 | 26.51 | 26.41 | 26.32 | 26.22 | 26.13 |
| 4 | 21.20 | 18.00 | 16.69 | 15.98 | 15.52 | 15.21 | 14.98 | 14.80 | 14.66 | 14.55 | 14.37 | 14.20 | 14.02 | 13.93 | 13.84 | 13.75 | 13.65 | 13.56 | 13.46 |
| 5 | 16.26 | 13.27 | 12.06 | 11.39 | 10.97 | 10.67 | 10.46 | 10.29 | 10.16 | 10.05 | 9.89 | 9.72 | 9.55 | 9.47 | 9.38 | 9.29 | 9.20 | 9.11 | 9.02 |
| 6 | 13.75 | 10.93 | 9.78 | 9.15 | 8.75 | 8.47 | 8.26 | 8.10 | 7.98 | 7.87 | 7.72 | 7.56 | 7.40 | 7.31 | 7.23 | 7.14 | 7.06 | 6.97 | 6.88 |
| 7 | 12.25 | 9.55 | 8.45 | 7.85 | 7.46 | 7.19 | 6.99 | 6.84 | 6.72 | 6.62 | 6.47 | 6.31 | 6.16 | 6.07 | 5.99 | 5.91 | 5.82 | 5.74 | 5.65 |
| 8 | 11.26 | 8.65 | 7.59 | 7.01 | 6.63 | 6.37 | 6.18 | 6.03 | 5.91 | 5.81 | 5.67 | 5.52 | 5.36 | 5.28 | 5.20 | 5.12 | 5.03 | 4.95 | 4.86 |
| 9 | 10.56 | 8.02 | 6.99 | 6.42 | 6.06 | 5.80 | 5.61 | 5.47 | 5.35 | 5.26 | 5.11 | 4.96 | 4.81 | 4.73 | 4.65 | 4.57 | 4.48 | 4.40 | 4.31 |
| 10 | 10.04 | 7.56 | 6.55 | 5.99 | 5.64 | 5.39 | 5.20 | 5.06 | 4.94 | 4.85 | 4.71 | 4.56 | 4.41 | 4.33 | 4.25 | 4.17 | 4.08 | 4.00 | 3.91 |
| 11 | 9.65 | 7.21 | 6.22 | 5.67 | 5.32 | 5.07 | 4.89 | 4.74 | 4.63 | 4.54 | 4.40 | 4.25 | 4.10 | 4.02 | 3.94 | 3.86 | 3.78 | 3.69 | 3.60 |
| 12 | 9.33 | 6.93 | 5.95 | 5.41 | 5.06 | 4.82 | 4.64 | 4.50 | 4.39 | 4.30 | 4.16 | 4.01 | 3.86 | 3.78 | 3.70 | 3.62 | 3.54 | 3.45 | 3.36 |
| 13 | 9.07 | 6.70 | 5.74 | 5.21 | 4.86 | 4.62 | 4.44 | 4.30 | 4.19 | 4.10 | 3.96 | 3.82 | 3.67 | 3.59 | 3.51 | 3.43 | 3.34 | 3.26 | 3.17 |
| 14 | 8.86 | 6.52 | 5.56 | 5.04 | 4.70 | 4.46 | 4.28 | 4.14 | 4.03 | 3.94 | 3.80 | 3.66 | 3.51 | 3.43 | 3.35 | 3.27 | 3.18 | 3.09 | 3.00 |
| 15 | 8.68 | 6.36 | 5.42 | 4.89 | 4.56 | 4.32 | 4.14 | 4.00 | 3.90 | 3.81 | 3.67 | 3.52 | 3.37 | 3.29 | 3.21 | 3.13 | 3.05 | 2.96 | 2.87 |
| 16 | 8.53 | 6.23 | 5.29 | 4.77 | 4.44 | 4.20 | 4.03 | 3.89 | 3.78 | 3.69 | 3.55 | 3.41 | 3.26 | 3.18 | 3.10 | 3.02 | 2.93 | 2.85 | 2.75 |
| 17 | 8.40 | 6.11 | 5.19 | 4.67 | 4.34 | 4.10 | 3.93 | 3.79 | 3.68 | 3.59 | 3.46 | 3.31 | 3.16 | 3.08 | 3.00 | 2.92 | 2.84 | 2.75 | 2.65 |
| 18 | 8.29 | 6.01 | 5.09 | 4.58 | 4.25 | 4.02 | 3.84 | 3.71 | 3.60 | 3.51 | 3.37 | 3.23 | 3.08 | 3.00 | 2.92 | 2.84 | 2.75 | 2.66 | 2.57 |
| 19 | 8.19 | 5.93 | 5.01 | 4.50 | 4.17 | 3.94 | 3.77 | 3.63 | 3.52 | 3.43 | 3.30 | 3.15 | 3.00 | 2.93 | 2.84 | 2.76 | 2.67 | 2.58 | 2.49 |
| 20 | 8.10 | 5.85 | 4.94 | 4.43 | 4.10 | 3.87 | 3.70 | 3.56 | 3.46 | 3.37 | 3.23 | 3.09 | 2.94 | 2.86 | 2.78 | 2.70 | 2.61 | 2.52 | 2.42 |
| 21 | 8.02 | 5.78 | 4.87 | 4.37 | 4.04 | 3.81 | 3.64 | 3.51 | 3.40 | 3.31 | 3.17 | 3.03 | 2.88 | 2.80 | 2.72 | 2.64 | 2.55 | 2.46 | 2.36 |
| 22 | 7.95 | 5.72 | 4.82 | 4.31 | 3.99 | 3.76 | 3.59 | 3.45 | 3.35 | 3.26 | 3.12 | 2.98 | 2.83 | 2.75 | 2.67 | 2.58 | 2.50 | 2.40 | 2.31 |
| 23 | 7.88 | 5.66 | 4.77 | 4.26 | 3.94 | 3.71 | 3.54 | 3.41 | 3.30 | 3.21 | 3.07 | 2.93 | 2.78 | 2.70 | 2.62 | 2.54 | 2.45 | 2.35 | 2.26 |
| 24 | 7.82 | 5.61 | 4.72 | 4.22 | 3.90 | 3.67 | 3.50 | 3.36 | 3.26 | 3.17 | 3.03 | 2.89 | 2.74 | 2.66 | 2.58 | 2.49 | 2.40 | 2.31 | 2.21 |
| 25 | 7.77 | 5.57 | 4.68 | 4.18 | 3.86 | 3.63 | 3.46 | 3.32 | 3.22 | 3.13 | 2.99 | 2.85 | 2.70 | 2.62 | 2.54 | 2.45 | 2.36 | 2.27 | 2.17 |
| 26 | 7.72 | 5.53 | 4.64 | 4.14 | 3.82 | 3.59 | 3.42 | 3.29 | 3.18 | 3.09 | 2.96 | 2.82 | 2.66 | 2.59 | 2.50 | 2.42 | 2.33 | 2.23 | 2.13 |
| 27 | 7.68 | 5.49 | 4.60 | 4.11 | 3.79 | 3.56 | 3.39 | 3.26 | 3.15 | 3.06 | 2.93 | 2.78 | 2.63 | 2.55 | 2.47 | 2.38 | 2.29 | 2.20 | 2.10 |
| 28 | 7.64 | 5.45 | 4.57 | 4.07 | 3.75 | 3.53 | 3.36 | 3.23 | 3.12 | 3.03 | 2.90 | 2.75 | 2.60 | 2.52 | 2.44 | 2.35 | 2.26 | 2.17 | 2.06 |
| 29 | 7.60 | 5.42 | 4.54 | 4.05 | 3.73 | 3.50 | 3.33 | 3.20 | 3.09 | 3.01 | 2.87 | 2.73 | 2.57 | 2.50 | 2.41 | 2.33 | 2.23 | 2.14 | 2.03 |
| 30 | 7.56 | 5.39 | 4.51 | 4.02 | 3.70 | 3.47 | 3.30 | 3.17 | 3.07 | 2.98 | 2.84 | 2.70 | 2.55 | 2.47 | 2.39 | 2.30 | 2.21 | 2.11 | 2.01 |
| 40 | 7.31 | 5.18 | 4.31 | 3.83 | 3.51 | 3.29 | 3.12 | 2.99 | 2.89 | 2.80 | 2.67 | 2.52 | 2.37 | 2.29 | 2.20 | 2.11 | 2.02 | 1.92 | 1.81 |
| 60 | 7.08 | 4.98 | 4.13 | 3.65 | 3.34 | 3.12 | 2.95 | 2.82 | 2.72 | 2.63 | 2.50 | 2.35 | 2.20 | 2.12 | 2.03 | 1.94 | 1.84 | 1.73 | 1.60 |
| 120 | 6.85 | 4.79 | 3.95 | 3.48 | 3.17 | 2.96 | 2.79 | 2.66 | 2.56 | 2.47 | 2.34 | 2.19 | 2.04 | 1.95 | 1.86 | 1.76 | 1.66 | 1.53 | 1.38 |
| $\infty$ | 6.64 | 4.61 | 3.78 | 3.32 | 3.02 | 2.80 | 2.64 | 2.51 | 2.41 | 2.32 | 2.19 | 2.04 | 1.88 | 1.79 | 1.70 | 1.59 | 1.47 | 1.33 | 1.00 |


| $\mathbf{n}$ | $\mathbf{A}_{\mathbf{2}}$ | $\mathbf{D}_{\mathbf{3}}$ | $\mathbf{D}_{\mathbf{4}}$ | $\mathbf{A}_{\mathbf{3}}$ | $\mathbf{B}_{\mathbf{3}}$ | $\mathbf{B}_{\mathbf{4}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 1.88 | 0 | 3.27 | 2.66 | 0 | 3.27 |
| 3 | 1.02 | 0 | 2.57 | 1.95 | 0 | 2.57 |
| 4 | 0.73 | 0 | 2.28 | 1.63 | 0 | 2.27 |
| 5 | 0.58 | 0 | 2.11 | 1.43 | 0 | 2.09 |
| 6 | 0.48 | 0 | 2.00 | 1.29 | 0.03 | 1.97 |
| 7 | 0.42 | 0.08 | 1.92 | 1.18 | 0.12 | 1.88 |
| 8 | 0.37 | 0.14 | 1.86 | 1.10 | 0.19 | 1.81 |
| 9 | 0.34 | 0.18 | 1.82 | 1.03 | 0.24 | 1.76 |
| 10 | 0.31 | 0.22 | 1.78 | 0.98 | 0.28 | 1.72 |
| 11 | 0.29 | 0.26 | 1.74 | 0.93 | 0.32 | 1.68 |
| 12 | 0.27 | 0.28 | 1.72 | 0.89 | 0.35 | 1.65 |
| 13 | 0.25 | 0.31 | 1.69 | 0.85 | 0.38 | 1.62 |
| 14 | 0.24 | 0.33 | 1.67 | 0.82 | 0.41 | 1.59 |
| 15 | 0.22 | 0.35 | 1.65 | 0.79 | 0.43 | 1.57 |
| 16 | 0.21 | 0.36 | 1.64 | 0.76 | 0.45 | 1.55 |
| 17 | 0.20 | 0.38 | 1.62 | 0.74 | 0.47 | 1.53 |
| 18 | 0.19 | 0.39 | 1.61 | 0.72 | 0.48 | 1.52 |
| 19 | 0.19 | 0.40 | 1.60 | 0.70 | 0.50 | 1.50 |
| 20 | 0.18 | 0.41 | 1.59 | 0.68 | 0.51 | 1.49 |

