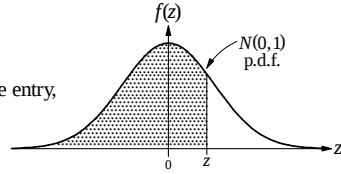


# PROBABILITIES FOR THE STANDARD NORMAL DISTRIBUTION $N(0, 1)$

## IN THE MAIN UPPER TABLE:

$\Pr[-\infty < N(0, 1) \leq z\text{-value from table margins}] = \text{Table entry,}$

e.g.,  $\Pr[-\infty < N(0, 1) \leq 0.00] = 0.5000^0 = 0.5;$



## Notation:

$$F(0.01) = .5040^{-1} = 0.50399$$

$$F(0.05) = .5199^4 = 0.51994$$

$$F(2.33) = .920097 = 0.990097,$$

$$\left\{ \begin{array}{l} \text{where } F(z) \text{ is the } N(0, 1) \text{ c.d.f.} \\ F(z) = \int_{-\infty}^z f(t) dt = \int_{-\infty}^z \frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2}t^2} dt. \end{array} \right.$$

THE SMALLER LOWER TABLE provides more accurate and convenient inverse lookup for selected probabilities in the interval 0.5 to 0.999 9995.

| z   | .00                 | .01                 | .02                 | .03                 | .04                 | .05                 | .06                 | .07                 | .08                 | .09                 |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 0.0 | .5000 <sup>0</sup>  | .5040 <sup>-1</sup> | .5080 <sup>-2</sup> | .5120 <sup>-3</sup> | .5160 <sup>-5</sup> | .5199 <sup>4</sup>  | .5239 <sup>2</sup>  | .5279 <sup>0</sup>  | .5319 <sup>-2</sup> | .5359 <sup>-4</sup> |
| 0.1 | .5398 <sup>3</sup>  | .5438 <sup>0</sup>  | .5478 <sup>-4</sup> | .5517 <sup>2</sup>  | .5557 <sup>-3</sup> | .5596 <sup>2</sup>  | .5636 <sup>-4</sup> | .5675 <sup>-1</sup> | .5714 <sup>2</sup>  | .5753 <sup>5</sup>  |
| 0.2 | .5793 <sup>-4</sup> | .5832 <sup>-3</sup> | .5871 <sup>-4</sup> | .5910 <sup>-5</sup> | .5948 <sup>3</sup>  | .5987 <sup>1</sup>  | .6026 <sup>-3</sup> | .6064 <sup>2</sup>  | .6103 <sup>-4</sup> | .6141 <sup>-1</sup> |
| 0.3 | .6179 <sup>-1</sup> | .6217 <sup>2</sup>  | .6255 <sup>-2</sup> | .6293 <sup>0</sup>  | .6331 <sup>-3</sup> | .6368 <sup>3</sup>  | .6406 <sup>-2</sup> | .6443 <sup>1</sup>  | .6480 <sup>3</sup>  | .6517 <sup>-3</sup> |
| 0.4 | .6554 <sup>2</sup>  | .6591 <sup>0</sup>  | .6628 <sup>-4</sup> | .6664 <sup>0</sup>  | .6700 <sup>3</sup>  | .6736 <sup>4</sup>  | .6772 <sup>4</sup>  | .6808 <sup>2</sup>  | .6844 <sup>-1</sup> | .6879 <sup>3</sup>  |
| 0.5 | .6915 <sup>-4</sup> | .6950 <sup>-3</sup> | .6985 <sup>-3</sup> | .7019 <sup>4</sup>  | .7054 <sup>0</sup>  | .7088 <sup>4</sup>  | .7123 <sup>-4</sup> | .7157 <sup>-4</sup> | .7190 <sup>4</sup>  | .7224 <sup>0</sup>  |
| 0.6 | .7257 <sup>5</sup>  | .7291 <sup>-3</sup> | .7324 <sup>-3</sup> | .7357 <sup>-5</sup> | .7389 <sup>1</sup>  | .7422 <sup>-5</sup> | .7454 <sup>-3</sup> | .7486 <sup>-3</sup> | .7517 <sup>5</sup>  | .7549 <sup>0</sup>  |
| 0.7 | .7580 <sup>4</sup>  | .7611 <sup>5</sup>  | .7642 <sup>4</sup>  | .7673 <sup>0</sup>  | .7704 <sup>-5</sup> | .7734 <sup>-3</sup> | .7764 <sup>-3</sup> | .7794 <sup>-5</sup> | .7823 <sup>0</sup>  | .7852 <sup>4</sup>  |
| 0.8 | .7881 <sup>4</sup>  | .7910 <sup>3</sup>  | .7939 <sup>-1</sup> | .7967 <sup>3</sup>  | .7995 <sup>5</sup>  | .8023 <sup>4</sup>  | .8051 <sup>1</sup>  | .8078 <sup>5</sup>  | .8106 <sup>-3</sup> | .8133 <sup>-3</sup> |
| 0.9 | .8159 <sup>4</sup>  | .8186 <sup>-1</sup> | .8212 <sup>-1</sup> | .8238 <sup>1</sup>  | .8264 <sup>-1</sup> | .8289 <sup>4</sup>  | .8315 <sup>-3</sup> | .8340 <sup>-2</sup> | .8365 <sup>-4</sup> | .8389 <sup>1</sup>  |
| 1.0 | .8413 <sup>4</sup>  | .8438 <sup>-5</sup> | .8461 <sup>4</sup>  | .8485 <sup>-1</sup> | .8508 <sup>3</sup>  | .8531 <sup>4</sup>  | .8554 <sup>3</sup>  | .8577 <sup>-1</sup> | .8599 <sup>3</sup>  | .8621 <sup>4</sup>  |
| 1.1 | .8643 <sup>3</sup>  | .8665 <sup>0</sup>  | .8686 <sup>4</sup>  | .8708 <sup>-4</sup> | .8729 <sup>-4</sup> | .8749 <sup>3</sup>  | .8770 <sup>-2</sup> | .8790 <sup>0</sup>  | .8810 <sup>0</sup>  | .8830 <sup>-2</sup> |
| 1.2 | .8849 <sup>3</sup>  | .8869 <sup>-4</sup> | .8888 <sup>-3</sup> | .8907 <sup>-5</sup> | .8925 <sup>1</sup>  | .8944 <sup>-5</sup> | .8962 <sup>-3</sup> | .8980 <sup>-4</sup> | .8997 <sup>3</sup>  | .9015 <sup>-3</sup> |
| 1.3 | .9032 <sup>0</sup>  | .9049 <sup>0</sup>  | .9066 <sup>-2</sup> | .9082 <sup>4</sup>  | .9099 <sup>-2</sup> | .9115 <sup>-1</sup> | .9131 <sup>-1</sup> | .9147 <sup>-4</sup> | .9162 <sup>-1</sup> | .9177 <sup>4</sup>  |
| 1.4 | .9192 <sup>4</sup>  | .9207 <sup>3</sup>  | .9222 <sup>0</sup>  | .9236 <sup>4</sup>  | .9251 <sup>-3</sup> | .9265 <sup>-3</sup> | .9279 <sup>-5</sup> | .9292 <sup>2</sup>  | .9306 <sup>-4</sup> | .9319 <sup>-1</sup> |
| 1.5 | .9332 <sup>-1</sup> | .9345 <sup>-2</sup> | .9357 <sup>4</sup>  | .9370 <sup>-1</sup> | .9382 <sup>2</sup>  | .9394 <sup>3</sup>  | .9406 <sup>2</sup>  | .9418 <sup>-1</sup> | .9429 <sup>5</sup>  | .9441 <sup>-2</sup> |
| 1.6 | .9452 <sup>0</sup>  | .9463 <sup>0</sup>  | .9474 <sup>-2</sup> | .9484 <sup>5</sup>  | .9495 <sup>0</sup>  | .9505 <sup>3</sup>  | .9515 <sup>4</sup>  | .9525 <sup>4</sup>  | .9535 <sup>2</sup>  | .9545 <sup>-1</sup> |
| 1.7 | .9554 <sup>3</sup>  | .9564 <sup>-3</sup> | .9573 <sup>-2</sup> | .9582 <sup>-2</sup> | .9591 <sup>-3</sup> | .9599 <sup>4</sup>  | .9608 <sup>0</sup>  | .9616 <sup>4</sup>  | .9625 <sup>-4</sup> | .9633 <sup>-3</sup> |
| 1.8 | .9641 <sup>-3</sup> | .9649 <sup>-5</sup> | .9656 <sup>-2</sup> | .9664 <sup>-2</sup> | .9671 <sup>2</sup>  | .9678 <sup>4</sup>  | .9686 <sup>-4</sup> | .9693 <sup>-4</sup> | .9699 <sup>5</sup>  | .9706 <sup>2</sup>  |
| 1.9 | .9713 <sup>-2</sup> | .9719 <sup>3</sup>  | .9726 <sup>-3</sup> | .9732 <sup>0</sup>  | .9738 <sup>1</sup>  | .9744 <sup>1</sup>  | .9750 <sup>0</sup>  | .9756 <sup>-2</sup> | .9761 <sup>5</sup>  | .9767 <sup>0</sup>  |
| 2.0 | .9772 <sup>5</sup>  | .9778 <sup>-2</sup> | .9783 <sup>1</sup>  | .9788 <sup>2</sup>  | .9793 <sup>2</sup>  | .9798 <sup>2</sup>  | .9803 <sup>0</sup>  | .9808 <sup>-3</sup> | .9812 <sup>4</sup>  | .9817 <sup>-1</sup> |
| 2.1 | .9821 <sup>4</sup>  | .9826 <sup>-3</sup> | .9830 <sup>0</sup>  | .9834 <sup>1</sup>  | .9838 <sup>2</sup>  | .9842 <sup>2</sup>  | .9846 <sup>1</sup>  | .9850 <sup>0</sup>  | .9854 <sup>-3</sup> | .9857 <sup>4</sup>  |
| 2.2 | .9861 <sup>0</sup>  | .9864 <sup>5</sup>  | .9868 <sup>-1</sup> | .9871 <sup>1</sup>  | .9875 <sup>-5</sup> | .9878 <sup>-2</sup> | .9881 <sup>-1</sup> | .9884 <sup>0</sup>  | .9887 <sup>0</sup>  | .9890 <sup>-1</sup> |
| 2.3 | .9893 <sup>-2</sup> | .9896 <sup>-4</sup> | .9898 <sup>3</sup>  | .920097             | .970358             | .920613             | .920863             | .921106             | .921344             | .921576             |
| 2.4 | .921802             | .922024             | .922240             | .922451             | .922656             | .922857             | .923053             | .923244             | .923431             | .923613             |
| 2.5 | .923790             | .923963             | .924132             | .924297             | .924457             | .924614             | .924766             | .924915             | .925060             | .925201             |
| 2.6 | .925339             | .925473             | .925604             | .925731             | .925855             | .925975             | .926093             | .926207             | .926319             | .926427             |
| 2.7 | .926533             | .926636             | .926736             | .926833             | .926928             | .927020             | .927110             | .927197             | .927282             | .927365             |
| 2.8 | .927445             | .927523             | .927599             | .927673             | .927744             | .927814             | .927882             | .927948             | .928012             | .928074             |
| 2.9 | .928134             | .928193             | .928250             | .928305             | .928359             | .928411             | .928462             | .928511             | .928559             | .928605             |
| 3.0 | .928650             | .928694             | .928736             | .928777             | .928817             | .928856             | .928893             | .928930             | .928965             | .928999             |
| 3.1 | .9290324            | .9290646            | .9290957            | .9291260            | .9291553            | .9291836            | .9292112            | .9292378            | .9292636            | .9292886            |
| 3.2 | .9293129            | .9293363            | .9293590            | .9293810            | .9294024            | .9294230            | .9294429            | .9294623            | .9294810            | .9294991            |
| 3.3 | .9295166            | .9295335            | .9295499            | .9295658            | .9295811            | .9295959            | .9296103            | .9296242            | .9296376            | .9296505            |
| 3.4 | .9296631            | .9296752            | .9296869            | .9296982            | .9297091            | .9297197            | .9297299            | .9297398            | .9297493            | .9297585            |
| 3.5 | .9297674            | .9297759            | .9297842            | .9297922            | .9297999            | .9298074            | .9298146            | .9298215            | .9298282            | .9298347            |
| 3.6 | .9298409            | .9298469            | .9298527            | .9298583            | .9298637            | .9298689            | .9298739            | .9298787            | .9298834            | .9298879            |
| 3.7 | .9298922            | .9298964            | .9299009            | .92990426           | .92990799           | .92991158           | .92991504           | .92991838           | .92992159           | .92992468           |
| 3.8 | .92992765           | .92993052           | .92993327           | .92993593           | .92993848           | .92994094           | .92994331           | .92994558           | .92994777           | .92994988           |
| 3.9 | .92995190           | .92995385           | .92995573           | .92995753           | .92995926           | .92996092           | .92996253           | .92996406           | .92996554           | .92996696           |
| 4.0 | .92996833           | .92996964           | .92997090           | .92997211           | .92997327           | .92997439           | .92997546           | .92997649           | .92997748           | .92997843           |
| 5   | .92997134           |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 6   | .929970134          |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 7   | .929968720          |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 8   | .929967179          |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 9   | .929965482          |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 10  | .929963680          |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 12  | .9299618224         |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 14  | .9299602207         |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 16  | .9299587611         |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 18  | .9299574259         |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 20  | .9299561246         |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 25  | .92995476943        |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 30  | .92995345093        |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 40  | .92995216344        |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 50  | .92995091919        |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 60  | .92994968762        |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 70  | .92994846577        |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 80  | .929947250976       |                     |                     |                     |                     |                     |                     |                     |                     |                     |
| 100 | .929946038656       |                     |                     |                     |                     |                     |                     |                     |                     |                     |

## INVERSE $N(0, 1)$ C.d.f., giving z for a specified $F(z) \geq 0.5$

|     |        |     |       |     |       |     |        |      |        |      |        |
|-----|--------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|
| .50 | 0      | .60 | .2533 | .70 | .5244 | .80 | .8416  | .90  | 1.2816 | .990 | 2.3263 |
| .51 | .02507 | .61 | .2793 | .71 | .5534 | .81 | .8779  | .91  | 1.3408 | .991 | 2.3656 |
| .52 | .05015 | .62 | .3055 | .72 | .5828 | .82 | .9154  | .92  | 1.4051 | .992 | 2.4089 |
| .53 | .07527 | .63 | .3319 | .73 | .6128 | .83 | .9542  | .93  | 1.4758 | .993 | 2.4573 |
| .54 | .1004  | .64 | .3585 | .74 | .6433 | .84 | .9945  | .94  | 1.5548 | .994 | 2.5121 |
| .55 | .1257  | .65 | .3853 | .75 | .6745 | .85 | 1.0364 | .95  | 1.6449 | .995 | 2.5758 |
| .56 | .1510  | .66 | .4125 | .76 | .7063 | .86 | 1.0803 | .96  | 1.7507 | .996 | 2.6521 |
| .57 | .1764  | .67 | .4399 | .77 | .7388 | .87 | 1.1264 | .97  | 1.8808 | .997 | 2.7478 |
| .58 | .2019  | .68 | .4677 | .78 | .7722 | .88 | 1.1750 | .975 | 1.9600 | .998 | 2.8782 |
| .59 | .2275  | .69 | .4959 | .79 | .8064 | .89 | 1.2265 | .98  | 2.0537 | .999 | 3.0902 |
|     |        |     |       |     |       |     |        |      |        | .995 | 3.2905 |
|     |        |     |       |     |       |     |        |      |        | .995 | 3.8906 |
|     |        |     |       |     |       |     |        |      |        | .995 | 4.4172 |
|     |        |     |       |     |       |     |        |      |        | .995 | 4.8916 |

PROBABILITIES FOR THE STANDARD NORMAL DISTRIBUTION  $N(0, 1)$  $N$   
left  
half

| $z$  | .00   | .01   | .02   | .03   | .04   | .05   | .06   | .07   | .08   | .09   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -3.8 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 |
| -3.7 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 |
| -3.6 | .0002 | .0002 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 | .0001 |
| -3.5 | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 | .0002 |
| -3.4 | .0003 | .0003 | .0003 | .0003 | .0003 | .0003 | .0003 | .0003 | .0003 | .0002 |
| -3.3 | .0005 | .0005 | .0005 | .0004 | .0004 | .0004 | .0004 | .0004 | .0004 | .0003 |
| -3.3 | .0007 | .0007 | .0006 | .0006 | .0006 | .0006 | .0006 | .0005 | .0005 | .0005 |
| -3.1 | .0010 | .0009 | .0009 | .0009 | .0008 | .0008 | .0008 | .0008 | .0007 | .0007 |
| -3.0 | .0013 | .0013 | .0013 | .0012 | .0012 | .0011 | .0011 | .0011 | .0010 | .0010 |
| -2.9 | .0019 | .0018 | .0018 | .0017 | .0016 | .0016 | .0015 | .0015 | .0014 | .0014 |
| -2.8 | .0026 | .0025 | .0024 | .0023 | .0023 | .0022 | .0021 | .0021 | .0020 | .0019 |
| -2.7 | .0035 | .0034 | .0033 | .0032 | .0031 | .0030 | .0029 | .0028 | .0027 | .0026 |
| -2.6 | .0047 | .0045 | .0044 | .0043 | .0041 | .0040 | .0039 | .0038 | .0037 | .0036 |
| -2.5 | .0062 | .0060 | .0059 | .0057 | .0055 | .0054 | .0052 | .0051 | .0049 | .0048 |
| -2.4 | .0082 | .0080 | .0078 | .0075 | .0073 | .0071 | .0069 | .0068 | .0066 | .0064 |
| -2.3 | .0107 | .0104 | .0102 | .0099 | .0096 | .0094 | .0091 | .0089 | .0087 | .0084 |
| -2.2 | .0139 | .0136 | .0132 | .0129 | .0125 | .0122 | .0119 | .0116 | .0113 | .0110 |
| -2.1 | .0179 | .0174 | .0170 | .0166 | .0162 | .0158 | .0154 | .0150 | .0146 | .0143 |
| -2.0 | .0228 | .0222 | .0217 | .0212 | .0207 | .0202 | .0197 | .0192 | .0188 | .0183 |
| -1.9 | .0287 | .0281 | .0274 | .0268 | .0262 | .0256 | .0250 | .0244 | .0239 | .0233 |
| -1.8 | .0359 | .0351 | .0344 | .0336 | .0329 | .0322 | .0314 | .0307 | .0301 | .0294 |
| -1.7 | .0446 | .0436 | .0427 | .0418 | .0409 | .0401 | .0392 | .0384 | .0375 | .0367 |
| -1.6 | .0548 | .0537 | .0526 | .0516 | .0505 | .0495 | .0485 | .0475 | .0465 | .0455 |
| -1.5 | .0668 | .0655 | .0643 | .0630 | .0618 | .0606 | .0594 | .0582 | .0571 | .0559 |
| -1.4 | .0808 | .0793 | .0778 | .0764 | .0749 | .0735 | .0721 | .0708 | .0694 | .0681 |
| -1.3 | .0968 | .0951 | .0934 | .0918 | .0901 | .0885 | .0869 | .0853 | .0838 | .0823 |
| -1.2 | .1151 | .1131 | .1112 | .1093 | .1075 | .1056 | .1038 | .1020 | .1003 | .0985 |
| -1.1 | .1357 | .1335 | .1314 | .1292 | .1271 | .1251 | .1230 | .1210 | .1190 | .1170 |
| -1.0 | .1587 | .1562 | .1539 | .1515 | .1492 | .1469 | .1446 | .1423 | .1401 | .1379 |
| -0.9 | .1841 | .1814 | .1788 | .1762 | .1736 | .1711 | .1685 | .1660 | .1635 | .1611 |
| -0.8 | .2119 | .2090 | .2061 | .2033 | .2005 | .1977 | .1949 | .1922 | .1894 | .1867 |
| -0.7 | .2420 | .2389 | .2358 | .2327 | .2296 | .2266 | .2236 | .2206 | .2177 | .2148 |
| -0.6 | .2743 | .2709 | .2676 | .2643 | .2611 | .2578 | .2546 | .2514 | .2483 | .2451 |
| -0.5 | .3085 | .3050 | .3015 | .2981 | .2946 | .2912 | .2877 | .2843 | .2810 | .2776 |
| -0.4 | .3446 | .3409 | .3372 | .3336 | .3300 | .3264 | .3228 | .3192 | .3156 | .3121 |
| -0.3 | .3821 | .3783 | .3745 | .3707 | .3669 | .3632 | .3594 | .3557 | .3520 | .3483 |
| -0.2 | .4207 | .4168 | .4129 | .4090 | .4052 | .4013 | .3974 | .3936 | .3897 | .3859 |
| -0.1 | .4602 | .4562 | .4522 | .4483 | .4443 | .4404 | .4364 | .4325 | .4286 | .4247 |
| -0.0 | .5000 | .4960 | .4920 | .4880 | .4840 | .4801 | .4761 | .4721 | .4681 | .4641 |
| $z$  | .00   | .01   | .02   | .03   | .04   | .05   | .06   | .07   | .08   | .09   |

| $z$ | .00   | .01   | .02   | .03   | .04   | .05   | .06   | .07   | .08   | .09   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | .5000 | .5040 | .5080 | .5120 | .5160 | .5199 | .5239 | .5279 | .5319 | .5359 |
| 0.1 | .5398 | .5438 | .5478 | .5517 | .5557 | .5596 | .5636 | .5675 | .5714 | .5753 |
| 0.2 | .5793 | .5832 | .5871 | .5910 | .5948 | .5987 | .6026 | .6064 | .6103 | .6141 |
| 0.3 | .6179 | .6217 | .6255 | .6293 | .6331 | .6368 | .6406 | .6443 | .6480 | .6517 |
| 0.4 | .6554 | .6591 | .6628 | .6664 | .6700 | .6736 | .6772 | .6808 | .6844 | .6879 |
| 0.5 | .6915 | .6950 | .6985 | .7019 | .7054 | .7088 | .7123 | .7157 | .7190 | .7224 |
| 0.6 | .7257 | .7291 | .7324 | .7357 | .7389 | .7422 | .7454 | .7486 | .7517 | .7549 |
| 0.7 | .7580 | .7611 | .7642 | .7673 | .7704 | .7734 | .7764 | .7794 | .7823 | .7852 |
| 0.8 | .7881 | .7910 | .7939 | .7967 | .7995 | .8023 | .8051 | .8078 | .8106 | .8133 |
| 0.9 | .8159 | .8186 | .8212 | .8238 | .8264 | .8289 | .8315 | .8340 | .8365 | .8389 |
| 1.0 | .8413 | .8438 | .8461 | .8485 | .8508 | .8531 | .8554 | .8577 | .8599 | .8621 |
| 1.1 | .8643 | .8665 | .8686 | .8708 | .8729 | .8749 | .8770 | .8790 | .8810 | .8830 |
| 1.2 | .8849 | .8869 | .8888 | .8907 | .8925 | .8944 | .8962 | .8980 | .8997 | .9015 |
| 1.3 | .9032 | .9049 | .9066 | .9082 | .9099 | .9115 | .9131 | .9147 | .9162 | .9177 |
| 1.4 | .9192 | .9207 | .9222 | .9236 | .9251 | .9265 | .9279 | .9292 | .9306 | .9319 |
| 1.5 | .9332 | .9345 | .9357 | .9370 | .9382 | .9394 | .9406 | .9418 | .9429 | .9441 |
| 1.6 | .9452 | .9463 | .9474 | .9484 | .9495 | .9505 | .9515 | .9525 | .9535 | .9545 |
| 1.7 | .9554 | .9564 | .9573 | .9582 | .9591 | .9599 | .9608 | .9616 | .9625 | .9633 |
| 1.8 | .9641 | .9649 | .9656 | .9664 | .9671 | .9678 | .9686 | .9693 | .9699 | .9706 |
| 1.9 | .9713 | .9719 | .9726 | .9732 | .9738 | .9744 | .9750 | .9756 | .9761 | .9767 |
| 2.0 | .9772 | .9778 | .9783 | .9788 | .9793 | .9798 | .9803 | .9808 | .9812 | .9817 |
| 2.1 | .9821 | .9826 | .9830 | .9834 | .9838 | .9842 | .9846 | .9850 | .9854 | .9857 |
| 2.2 | .9861 | .9864 | .9868 | .9871 | .9875 | .9878 | .9881 | .9884 | .9887 | .9890 |
| 2.3 | .9893 | .9896 | .9898 | .9901 | .9904 | .9906 | .9909 | .9911 | .9913 | .9916 |
| 2.4 | .9918 | .9920 | .9922 | .9925 | .9927 | .9929 | .9931 | .9932 | .9934 | .9936 |
| 2.5 | .9938 | .9940 | .9941 | .9943 | .9945 | .9946 | .9948 | .9949 | .9951 | .9952 |
| 2.6 | .9953 | .9955 | .9956 | .9957 | .9959 | .9960 | .9961 | .9962 | .9963 | .9964 |
| 2.7 | .9965 | .9966 | .9967 | .9968 | .9969 | .9970 | .9971 | .9972 | .9973 | .9974 |
| 2.8 | .9974 | .9975 | .9976 | .9977 | .9977 | .9978 | .9979 | .9979 | .9980 | .9981 |
| 2.9 | .9981 | .9982 | .9982 | .9983 | .9984 | .9984 | .9985 | .9985 | .9986 | .9986 |
| 3.0 | .9987 | .9987 | .9987 | .9988 | .9988 | .9989 | .9989 | .9989 | .9990 | .9990 |
| 3.1 | .9990 | .9991 | .9991 | .9991 | .9992 | .9992 | .9992 | .9992 | .9993 | .9993 |
| 3.2 | .9993 | .9993 | .9994 | .9994 | .9994 | .9994 | .9994 | .9995 | .9995 | .9995 |
| 3.3 | .9995 | .9995 | .9995 | .9996 | .9996 | .9996 | .9996 | .9996 | .9996 | .9997 |
| 3.4 | .9997 | .9997 | .9997 | .9997 | .9997 | .9997 | .9997 | .9997 | .9997 | .9998 |
| 3.5 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 | .9998 |
| 3.6 | .9998 | .9998 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 |
| 3.7 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 |
| 3.8 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 | .9999 |
| $z$ | .00   | .01   | .02   | .03   | .04   | .05   | .06   | .07   | .08   | .09   |

 $N$   
right  
half