

| 0° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|--|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 1 | 0 | infinite | 1 | infinite | |
| 59 | 1 | 0,999999958 | 0,000290888 | 3437,746674 | 1,000000042 | 3437,746819 | |
| 58 | 2 | 0,999999831 | 0,000581776 | 1718,873191 | 1,000000169 | 1718,873482 | |
| 57 | 3 | 0,999999619 | 0,000872665 | 1145,915299 | 1,000000381 | 1145,915736 | |
| 56 | 4 | 0,999999323 | 0,001163553 | 859,4363048 | 1,000000677 | 859,4368866 | |
| 55 | 5 | 0,999998942 | 0,001454442 | 687,5488693 | 1,000001058 | 687,5495966 | |
| 54 | 6 | 0,999998477 | 0,001745331 | 572,9572134 | 1,000001523 | 572,958086 | |
| 53 | 7 | 0,999997927 | 0,00203622 | 491,1060028 | 1,000002073 | 491,1070209 | |
| 52 | 8 | 0,999997292 | 0,00232711 | 429,7175706 | 1,000002708 | 429,7187342 | |
| 51 | 9 | 0,999996573 | 0,002618 | 381,9709908 | 1,000003427 | 381,9722998 | |
| 50 | 10 | 0,999995769 | 0,00290889 | 343,7737075 | 1,000004231 | 343,7751619 | |
| 49 | 11 | 0,999994881 | 0,003199781 | 312,5213671 | 1,000005119 | 312,522967 | |
| 48 | 12 | 0,999993908 | 0,003490673 | 286,477734 | 1,000006092 | 286,4794793 | |
| 47 | 13 | 0,99999285 | 0,003781565 | 264,4407988 | 1,00000715 | 264,4426895 | |
| 46 | 14 | 0,999991708 | 0,004072457 | 245,5519833 | 1,000008292 | 245,5540195 | |
| 45 | 15 | 0,999990481 | 0,004363351 | 229,1816636 | 1,000009519 | 229,1838453 | |
| 44 | 16 | 0,999989169 | 0,004654245 | 214,8576218 | 1,000010831 | 214,8599489 | |
| 43 | 17 | 0,999987773 | 0,00494514 | 202,2187499 | 1,000012227 | 202,2212225 | |
| 42 | 18 | 0,999986292 | 0,005236036 | 190,9841864 | 1,000013708 | 190,9868044 | |
| 41 | 19 | 0,999984727 | 0,005526932 | 180,9321983 | 1,000015273 | 180,9349617 | |
| 40 | 20 | 0,999983077 | 0,00581783 | 171,8853993 | 1,000016923 | 171,8883082 | |
| 39 | 21 | 0,999981342 | 0,006108728 | 163,700191 | 1,000018658 | 163,7032453 | |
| 38 | 22 | 0,999979523 | 0,006399628 | 156,2590837 | 1,000020477 | 156,2622834 | |
| 37 | 23 | 0,999977619 | 0,006690529 | 149,4650208 | 1,000022381 | 149,468366 | |
| 36 | 24 | 0,999975631 | 0,00698143 | 143,2371217 | 1,00002437 | 143,2406123 | |
| 35 | 25 | 0,999973558 | 0,007272333 | 137,5074468 | 1,000026443 | 137,5110829 | |
| 34 | 26 | 0,9999714 | 0,007563238 | 132,2185086 | 1,000028601 | 132,2222902 | |
| 33 | 27 | 0,999969158 | 0,007854143 | 127,3213365 | 1,000030843 | 127,3252635 | |
| 32 | 28 | 0,999966831 | 0,00814505 | 122,7739554 | 1,00003317 | 122,7780279 | |
| 31 | 29 | 0,999964419 | 0,008435958 | 118,5401802 | 1,000035582 | 118,5443981 | |
| 30 | 30 | 0,999961923 | 0,008726868 | 114,5886501 | 1,000038078 | 114,5930135 | |
| 29 | 31 | 0,999959342 | 0,009017779 | 110,8920513 | 1,000040659 | 110,8965601 | |
| 28 | 32 | 0,999956677 | 0,009308692 | 107,4264838 | 1,000043325 | 107,431138 | |
| 27 | 33 | 0,999953927 | 0,009599606 | 104,1709448 | 1,000046075 | 104,1757445 | |
| 26 | 34 | 0,999951092 | 0,009890522 | 101,1069024 | 1,00004891 | 101,1118475 | |
| 25 | 35 | 0,999948173 | 0,010181439 | 98,21794259 | 1,00005183 | 98,22303318 | |
| 24 | 36 | 0,999945169 | 0,010472358 | 95,48947517 | 1,000054834 | 95,49471121 | |
| 23 | 37 | 0,999942081 | 0,010763279 | 92,90848724 | 1,000057922 | 92,91386872 | |
| 22 | 38 | 0,999938908 | 0,011054202 | 90,46333567 | 1,000061096 | 90,4688626 | |
| 21 | 39 | 0,99993565 | 0,011345127 | 88,14357152 | 1,000064354 | 88,1492439 | |
| 20 | 40 | 0,999932308 | 0,011636053 | 85,93979073 | 1,000067697 | 85,94560855 | |
| 19 | 41 | 0,999928881 | 0,011926982 | 83,8435067 | 1,000071124 | 83,84946998 | |
| 18 | 42 | 0,99992537 | 0,012217913 | 81,84704111 | 1,000074636 | 81,85314984 | |
| 17 | 43 | 0,999921774 | 0,012508845 | 79,94342988 | 1,000078233 | 79,94968406 | |
| 16 | 44 | 0,999918093 | 0,01279978 | 78,12634202 | 1,000081914 | 78,13274165 | |
| 15 | 45 | 0,999914328 | 0,013090717 | 76,39000931 | 1,00008568 | 76,39655439 | |
| 14 | 46 | 0,999910478 | 0,013381656 | 74,72916511 | 1,00008953 | 74,73585564 | |
| 13 | 47 | 0,999906543 | 0,013672598 | 73,13899101 | 1,000093466 | 73,14582699 | |
| 12 | 48 | 0,999902524 | 0,013963541 | 71,61507012 | 1,000097485 | 71,62205155 | |
| 11 | 49 | 0,99989842 | 0,014254488 | 70,15334612 | 1,00010159 | 70,16047301 | |
| 10 | 50 | 0,999894232 | 0,014545436 | 68,75008721 | 1,000105779 | 68,75735954 | |
| 9 | 51 | 0,999889959 | 0,014836387 | 67,40185426 | 1,000110053 | 67,40927204 | |
| 8 | 52 | 0,999885601 | 0,015127341 | 66,10547268 | 1,000114412 | 66,11303592 | |
| 7 | 53 | 0,999881159 | 0,015418297 | 64,85800751 | 1,000118855 | 64,8657162 | |
| 6 | 54 | 0,999876632 | 0,015709255 | 63,65674116 | 1,000123383 | 63,66459531 | |
| 5 | 55 | 0,999872021 | 0,016000217 | 62,4991537 | 1,000127995 | 62,5071533 | |
| 4 | 56 | 0,999867325 | 0,016291181 | 61,38290518 | 1,000132692 | 61,39105023 | |
| 3 | 57 | 0,999862545 | 0,016582147 | 60,30581988 | 1,000137474 | 60,31411038 | |
| 2 | 58 | 0,999857679 | 0,016873117 | 59,2658721 | 1,000142341 | 59,27430806 | |
| 1 | 59 | 0,99985273 | 0,01716409 | 58,26117351 | 1,000147292 | 58,26975492 | |
| 0 | 60 | 0,999847695 | 0,017455065 | 57,28996163 | 1,000152328 | 57,2986885 | |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

89°

| 1° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,017452406 | 0,999847695 | 0,017455065 | 57,28996163 | 1,000152328 | 57,2986885 |
| 59 | 1 | 0,01774325 | 0,999842576 | 0,017746043 | 56,35058959 | 1,000157449 | 56,35946191 |
| 58 | 2 | 0,018034091 | 0,999837373 | 0,018037025 | 55,44151674 | 1,000162654 | 55,45053452 |
| 57 | 3 | 0,018324931 | 0,999832084 | 0,018328009 | 54,56130027 | 1,000167944 | 54,57046351 |
| 56 | 4 | 0,01861577 | 0,999826712 | 0,018618996 | 53,70858754 | 1,000173318 | 53,71789623 |
| 55 | 5 | 0,018906607 | 0,999821254 | 0,018909987 | 52,88210913 | 1,000178778 | 52,89156328 |
| 54 | 6 | 0,019197442 | 0,999815712 | 0,019200981 | 52,08067259 | 1,000184322 | 52,09027219 |
| 53 | 7 | 0,019488276 | 0,999810086 | 0,019491978 | 51,30315663 | 1,000189951 | 51,31290169 |
| 52 | 8 | 0,019779108 | 0,999804374 | 0,019782978 | 50,54850593 | 1,000195664 | 50,55839645 |
| 51 | 9 | 0,020069939 | 0,999798578 | 0,020073982 | 49,81572636 | 1,000201462 | 49,82576234 |
| 50 | 10 | 0,020360768 | 0,999792698 | 0,020364989 | 49,10388057 | 1,000207345 | 49,11406201 |
| 49 | 11 | 0,020651595 | 0,999786733 | 0,020656 | 48,41208405 | 1,000213312 | 48,42241095 |
| 48 | 12 | 0,02094242 | 0,999780683 | 0,020947014 | 47,73950141 | 1,000219365 | 47,74997376 |
| 47 | 13 | 0,021233243 | 0,999774549 | 0,021238032 | 47,08534303 | 1,000225502 | 47,09596084 |
| 46 | 14 | 0,021524065 | 0,99976833 | 0,021529053 | 46,44886198 | 1,000231723 | 46,45962526 |
| 45 | 15 | 0,021814885 | 0,999762027 | 0,021820078 | 45,82935117 | 1,00023803 | 45,84025991 |
| 44 | 16 | 0,022105703 | 0,999755639 | 0,022111106 | 45,22614073 | 1,000244421 | 45,23719494 |
| 43 | 17 | 0,022396519 | 0,999749167 | 0,022402138 | 44,63859558 | 1,000250896 | 44,64979524 |
| 42 | 18 | 0,022687334 | 0,999742609 | 0,022693175 | 44,0661132 | 1,000257457 | 44,07745832 |
| 41 | 19 | 0,022978146 | 0,999735968 | 0,022984215 | 43,50812158 | 1,000264102 | 43,51961217 |
| 40 | 20 | 0,023268956 | 0,999729241 | 0,023275258 | 42,96407734 | 1,000270832 | 42,97571339 |
| 39 | 21 | 0,023559765 | 0,99972243 | 0,023566306 | 42,43346389 | 1,000277647 | 42,4452454 |
| 38 | 22 | 0,023850571 | 0,999715535 | 0,023857358 | 41,91578986 | 1,000284546 | 41,92771684 |
| 37 | 23 | 0,024141376 | 0,999708555 | 0,024148414 | 41,41058757 | 1,00029153 | 41,42266002 |
| 36 | 24 | 0,024432178 | 0,99970149 | 0,024439474 | 40,9174116 | 1,000298599 | 40,92962951 |
| 35 | 25 | 0,024722978 | 0,99969434 | 0,024730538 | 40,43583749 | 1,000305753 | 40,44820087 |
| 34 | 26 | 0,025013777 | 0,999687107 | 0,025021606 | 39,96546052 | 1,000312991 | 39,97796936 |
| 33 | 27 | 0,025304573 | 0,999679788 | 0,025312678 | 39,50589458 | 1,000320315 | 39,51854889 |
| 32 | 28 | 0,025595367 | 0,999672385 | 0,025603755 | 39,05677112 | 1,000327722 | 39,0695709 |
| 31 | 29 | 0,025886159 | 0,999664897 | 0,025894836 | 38,61773814 | 1,000335215 | 38,63068339 |
| 30 | 30 | 0,026176948 | 0,999657325 | 0,026185922 | 38,1884593 | 1,000342792 | 38,20155001 |
| 29 | 31 | 0,026467736 | 0,999649668 | 0,026477011 | 37,76861302 | 1,000350455 | 37,78184921 |
| 28 | 32 | 0,026758521 | 0,999641927 | 0,026768106 | 37,35789173 | 1,000358202 | 37,37127338 |
| 27 | 33 | 0,027049304 | 0,999634101 | 0,027059205 | 36,95600107 | 1,000366033 | 36,96952819 |
| 26 | 34 | 0,027340084 | 0,99962619 | 0,027350308 | 36,56265921 | 1,00037395 | 36,5763318 |
| 25 | 35 | 0,027630863 | 0,999618195 | 0,027641416 | 36,17759618 | 1,000381951 | 36,19141425 |
| 24 | 36 | 0,027921639 | 0,999610115 | 0,027932529 | 35,80055329 | 1,000390037 | 35,81451683 |
| 23 | 37 | 0,028212412 | 0,999601951 | 0,028223647 | 35,43128247 | 1,000398208 | 35,44539149 |
| 22 | 38 | 0,028503184 | 0,999593702 | 0,028514769 | 35,06954582 | 1,000406463 | 35,08380031 |
| 21 | 39 | 0,028793952 | 0,999585368 | 0,028805896 | 34,71511501 | 1,000414804 | 34,72951498 |
| 20 | 40 | 0,029084719 | 0,99957695 | 0,029097028 | 34,36777089 | 1,000423229 | 34,38231632 |
| 19 | 41 | 0,029375483 | 0,999568447 | 0,029388165 | 34,02730294 | 1,000431739 | 34,04199385 |
| 18 | 42 | 0,029666244 | 0,99955986 | 0,029679307 | 33,69350893 | 1,000440334 | 33,70834532 |
| 17 | 43 | 0,029957003 | 0,999551188 | 0,029970454 | 33,36619448 | 1,000449013 | 33,38117634 |
| 16 | 44 | 0,030247759 | 0,999542432 | 0,030261606 | 33,04517267 | 1,000457778 | 33,06030001 |
| 15 | 45 | 0,030538513 | 0,999533591 | 0,030552763 | 32,73026372 | 1,000466627 | 32,74553653 |
| 14 | 46 | 0,030829264 | 0,999524665 | 0,030843926 | 32,42129461 | 1,000475561 | 32,4367129 |
| 13 | 47 | 0,031120013 | 0,999515655 | 0,031135093 | 32,11809881 | 1,00048458 | 32,13366259 |
| 12 | 48 | 0,031410759 | 0,99950656 | 0,031426266 | 31,82051595 | 1,000493683 | 31,83622521 |
| 11 | 49 | 0,031701502 | 0,999497381 | 0,031717444 | 31,52839155 | 1,000502872 | 31,54424629 |
| 10 | 50 | 0,031992243 | 0,999488117 | 0,032008628 | 31,24157674 | 1,000512145 | 31,25757696 |
| 9 | 51 | 0,032282981 | 0,999478769 | 0,032299817 | 30,95992802 | 1,000521503 | 30,97607372 |
| 8 | 52 | 0,032573716 | 0,999469336 | 0,032591011 | 30,683307 | 1,000530946 | 30,69959818 |
| 7 | 53 | 0,032864449 | 0,999459818 | 0,032882211 | 30,41158022 | 1,000540474 | 30,42801688 |
| 6 | 54 | 0,033155178 | 0,999450216 | 0,033173417 | 30,14461887 | 1,000550086 | 30,16120101 |
| 5 | 55 | 0,033445905 | 0,999440529 | 0,033464628 | 29,88229863 | 1,000559784 | 29,89902627 |
| 4 | 56 | 0,033736629 | 0,999430758 | 0,033755845 | 29,62449949 | 1,000569566 | 29,64137261 |
| 3 | 57 | 0,034027351 | 0,999420902 | 0,034047067 | 29,37110552 | 1,000579434 | 29,38812412 |
| 2 | 58 | 0,034318069 | 0,999410962 | 0,034338295 | 29,12200471 | 1,000589386 | 29,1391688 |
| 1 | 59 | 0,034608784 | 0,999400937 | 0,03462953 | 28,87708884 | 1,000599423 | 28,89439842 |
| 0 | 60 | 0,034899497 | 0,999390827 | 0,034920769 | 28,63625328 | 1,000609544 | 28,65370835 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

88°

| 2° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,034899497 | 0,999390827 | 0,034920769 | 28,63625328 | 1,000609544 | 28,65370835 |
| 59 | 1 | 0,035190206 | 0,999380633 | 0,035212015 | 28,39939688 | 1,000619751 | 28,41699743 |
| 58 | 2 | 0,035480913 | 0,999370354 | 0,035503267 | 28,16642177 | 1,000630043 | 28,18416782 |
| 57 | 3 | 0,035771616 | 0,999359991 | 0,035794525 | 27,9372333 | 1,000640419 | 27,95512484 |
| 56 | 4 | 0,036062317 | 0,999349543 | 0,036085789 | 27,71173986 | 1,00065088 | 27,72977688 |
| 55 | 5 | 0,036353014 | 0,999339011 | 0,036377059 | 27,48985276 | 1,000661426 | 27,50803527 |
| 54 | 6 | 0,036643709 | 0,999328394 | 0,036668335 | 27,27148613 | 1,000672058 | 27,28981414 |
| 53 | 7 | 0,0369344 | 0,999317692 | 0,036959618 | 27,05655682 | 1,000682774 | 27,07503033 |
| 52 | 8 | 0,037225088 | 0,999306906 | 0,037250907 | 26,84498427 | 1,000693574 | 26,86360327 |
| 51 | 9 | 0,037515773 | 0,999296036 | 0,037542202 | 26,63669041 | 1,00070446 | 26,6554549 |
| 50 | 10 | 0,037806455 | 0,99928508 | 0,037833503 | 26,43159957 | 1,000715431 | 26,45050956 |
| 49 | 11 | 0,038097134 | 0,999274041 | 0,038124811 | 26,22963841 | 1,000726487 | 26,2486939 |
| 48 | 12 | 0,038387809 | 0,999262916 | 0,038416125 | 26,0307358 | 1,000737627 | 26,04993678 |
| 47 | 13 | 0,038678481 | 0,999251708 | 0,038707446 | 25,83482275 | 1,000748853 | 25,85416923 |
| 46 | 14 | 0,03896915 | 0,999240414 | 0,038998773 | 25,64183232 | 1,000760163 | 25,6613243 |
| 45 | 15 | 0,039259816 | 0,999229036 | 0,039290107 | 25,45169958 | 1,000771559 | 25,47133706 |
| 44 | 16 | 0,039550478 | 0,999217574 | 0,039581448 | 25,26436148 | 1,000783039 | 25,28414446 |
| 43 | 17 | 0,039841137 | 0,999206027 | 0,039872795 | 25,07975682 | 1,000794604 | 25,0996853 |
| 42 | 18 | 0,040131793 | 0,999194395 | 0,040164149 | 24,89782619 | 1,000806254 | 24,91790017 |
| 41 | 19 | 0,040422445 | 0,999182679 | 0,04045551 | 24,71851187 | 1,00081799 | 24,73873135 |
| 40 | 20 | 0,040713093 | 0,999170878 | 0,040746878 | 24,54175779 | 1,00082981 | 24,56212278 |
| 39 | 21 | 0,041003739 | 0,999158993 | 0,041038252 | 24,36750949 | 1,000841715 | 24,38801999 |
| 38 | 22 | 0,041294381 | 0,999147023 | 0,041329634 | 24,19571403 | 1,000853705 | 24,21637003 |
| 37 | 23 | 0,041585019 | 0,999134969 | 0,041621022 | 24,02631994 | 1,00086578 | 24,04712144 |
| 36 | 24 | 0,041875654 | 0,99912283 | 0,041912418 | 23,8592772 | 1,00087794 | 23,88022421 |
| 35 | 25 | 0,042166285 | 0,999110607 | 0,042203821 | 23,69453715 | 1,000890185 | 23,71562968 |
| 34 | 26 | 0,042456913 | 0,999098299 | 0,042495231 | 23,5320525 | 1,000902515 | 23,55329053 |
| 33 | 27 | 0,042747537 | 0,999085906 | 0,042786648 | 23,37177719 | 1,00091493 | 23,39316074 |
| 32 | 28 | 0,043038157 | 0,999073429 | 0,043078072 | 23,21366646 | 1,00092743 | 23,23519552 |
| 31 | 29 | 0,043328774 | 0,999060868 | 0,043369504 | 23,05767672 | 1,000940015 | 23,07935129 |
| 30 | 30 | 0,043619387 | 0,999048222 | 0,043660943 | 22,90376555 | 1,000952685 | 22,92558563 |
| 29 | 31 | 0,043909997 | 0,999035491 | 0,043952389 | 22,75189165 | 1,00096544 | 22,77385724 |
| 28 | 32 | 0,044200603 | 0,999022676 | 0,044243843 | 22,60201481 | 1,00097828 | 22,62412592 |
| 27 | 33 | 0,044491205 | 0,999009776 | 0,044535305 | 22,45409588 | 1,000991205 | 22,47635251 |
| 26 | 34 | 0,044781803 | 0,998996792 | 0,044826774 | 22,30809672 | 1,001004216 | 22,33049886 |
| 25 | 35 | 0,045072397 | 0,998983723 | 0,04511825 | 22,16398016 | 1,001017311 | 22,18652782 |
| 24 | 36 | 0,045362988 | 0,99897057 | 0,045409734 | 22,02171001 | 1,001030491 | 22,04440319 |
| 23 | 37 | 0,045653575 | 0,998957332 | 0,045701226 | 21,88125098 | 1,001043756 | 21,90408967 |
| 22 | 38 | 0,045944158 | 0,99894401 | 0,045992726 | 21,74256868 | 1,001057107 | 21,7655529 |
| 21 | 39 | 0,046234737 | 0,998930603 | 0,046284233 | 21,6056296 | 1,001070542 | 21,62875933 |
| 20 | 40 | 0,046525312 | 0,998917111 | 0,046575749 | 21,47040104 | 1,001084063 | 21,4936763 |
| 19 | 41 | 0,046815883 | 0,998903535 | 0,046867272 | 21,33685113 | 1,001097668 | 21,36027191 |
| 18 | 42 | 0,047106451 | 0,998889875 | 0,047158803 | 21,20494879 | 1,001111359 | 21,2285151 |
| 17 | 43 | 0,047397014 | 0,99887613 | 0,047450342 | 21,07466369 | 1,001125135 | 21,09837552 |
| 16 | 44 | 0,047687573 | 0,9988623 | 0,047741889 | 20,94596625 | 1,001138995 | 20,96982361 |
| 15 | 45 | 0,047978129 | 0,998848386 | 0,048033444 | 20,8188276 | 1,001152941 | 20,84283049 |
| 14 | 46 | 0,04826868 | 0,998834388 | 0,048325008 | 20,69321958 | 1,001166972 | 20,71736799 |
| 13 | 47 | 0,048559227 | 0,998820305 | 0,04861658 | 20,56911468 | 1,001181088 | 20,59340862 |
| 12 | 48 | 0,04884977 | 0,998806137 | 0,048908159 | 20,44648606 | 1,00119529 | 20,47092554 |
| 11 | 49 | 0,049140309 | 0,998791885 | 0,049199748 | 20,32530753 | 1,001209576 | 20,34989253 |
| 10 | 50 | 0,049430843 | 0,998777549 | 0,049491344 | 20,20555348 | 1,001223948 | 20,23028401 |
| 9 | 51 | 0,049721374 | 0,998763128 | 0,049782949 | 20,08719892 | 1,001238404 | 20,11207499 |
| 8 | 52 | 0,0500119 | 0,998748622 | 0,050074562 | 19,97021946 | 1,001252946 | 19,99524106 |
| 7 | 53 | 0,050302422 | 0,998734032 | 0,050366184 | 19,85459123 | 1,001267573 | 19,87975837 |
| 6 | 54 | 0,05059294 | 0,998719357 | 0,050657815 | 19,74029095 | 1,001282285 | 19,76560363 |
| 5 | 55 | 0,050883454 | 0,998704598 | 0,050949454 | 19,62729585 | 1,001297082 | 19,65275407 |
| 4 | 56 | 0,051173963 | 0,998689754 | 0,051241101 | 19,51558368 | 1,001311965 | 19,54118744 |
| 3 | 57 | 0,051464468 | 0,998674826 | 0,051532758 | 19,4051327 | 1,001326932 | 19,430882 |
| 2 | 58 | 0,051754968 | 0,998659814 | 0,051824423 | 19,29592165 | 1,001341985 | 19,32181649 |
| 1 | 59 | 0,052045464 | 0,998644716 | 0,052116097 | 19,18792975 | 1,001357123 | 19,21397013 |
| 0 | 60 | 0,052335956 | 0,998629535 | 0,052407779 | 19,08113669 | 1,001372346 | 19,10732261 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

87°

| 3° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,052335956 | 0,998629535 | 0,052407779 | 19,08113669 | 1,001372346 | 19,10732261 |
| 59 | 1 | 0,052626444 | 0,998614269 | 0,052699471 | 18,97552258 | 1,001387654 | 19,00185405 |
| 58 | 2 | 0,052916926 | 0,998598918 | 0,052991171 | 18,871068 | 1,001403048 | 18,89754502 |
| 57 | 3 | 0,053207405 | 0,998583483 | 0,053282881 | 18,76775395 | 1,001418527 | 18,7943765 |
| 56 | 4 | 0,053497879 | 0,998567963 | 0,0535746 | 18,66556181 | 1,001434091 | 18,69232992 |
| 55 | 5 | 0,053788348 | 0,998552359 | 0,053866327 | 18,56447341 | 1,00144974 | 18,59138706 |
| 54 | 6 | 0,054078813 | 0,99853667 | 0,054158064 | 18,46447093 | 1,001465474 | 18,49153014 |
| 53 | 7 | 0,054369273 | 0,998520897 | 0,05444981 | 18,36553696 | 1,001481294 | 18,39274172 |
| 52 | 8 | 0,054659729 | 0,99850504 | 0,054741565 | 18,26765445 | 1,001497199 | 18,29500476 |
| 51 | 9 | 0,05495018 | 0,998489097 | 0,05503333 | 18,1708067 | 1,001513189 | 18,19830256 |
| 50 | 10 | 0,055240626 | 0,998473071 | 0,055325104 | 18,07497738 | 1,001529264 | 18,1026188 |
| 49 | 11 | 0,055531068 | 0,99845696 | 0,055616887 | 17,9801505 | 1,001545425 | 18,00793747 |
| 48 | 12 | 0,055821505 | 0,998440764 | 0,05590868 | 17,88631038 | 1,001561671 | 17,91424291 |
| 47 | 13 | 0,056111937 | 0,998424484 | 0,056200482 | 17,79344169 | 1,001578002 | 17,82151978 |
| 46 | 14 | 0,056402365 | 0,99840812 | 0,056492294 | 17,70152941 | 1,001594419 | 17,72975306 |
| 45 | 15 | 0,056692788 | 0,998391671 | 0,056784115 | 17,61055883 | 1,00161092 | 17,63892804 |
| 44 | 16 | 0,056983206 | 0,998375137 | 0,057075946 | 17,52051552 | 1,001627507 | 17,54903029 |
| 43 | 17 | 0,057273619 | 0,998358519 | 0,057367787 | 17,43138538 | 1,00164418 | 17,46004571 |
| 42 | 18 | 0,057564027 | 0,998341817 | 0,057659637 | 17,34315456 | 1,001660938 | 17,37196046 |
| 41 | 19 | 0,05785443 | 0,99832503 | 0,057951497 | 17,2558095 | 1,001677781 | 17,28476097 |
| 40 | 20 | 0,058144829 | 0,998308158 | 0,058243367 | 17,16933693 | 1,001694709 | 17,19843396 |
| 39 | 21 | 0,058435223 | 0,998291202 | 0,058535247 | 17,08372381 | 1,001711723 | 17,11296641 |
| 38 | 22 | 0,058725611 | 0,998274162 | 0,058827137 | 16,99895739 | 1,001728822 | 17,02834555 |
| 37 | 23 | 0,059015995 | 0,998257037 | 0,059119037 | 16,91502514 | 1,001746006 | 16,94455888 |
| 36 | 24 | 0,059306374 | 0,998239828 | 0,059410947 | 16,83191481 | 1,001763276 | 16,86159412 |
| 35 | 25 | 0,059596747 | 0,998222534 | 0,059702867 | 16,74961437 | 1,001780631 | 16,77943925 |
| 34 | 26 | 0,059887116 | 0,998205156 | 0,059994797 | 16,66811201 | 1,001798071 | 16,69808247 |
| 33 | 27 | 0,060177479 | 0,998187693 | 0,060286738 | 16,58739618 | 1,001815597 | 16,61751221 |
| 32 | 28 | 0,060467838 | 0,998170146 | 0,060578688 | 16,50745553 | 1,001833208 | 16,53771714 |
| 31 | 29 | 0,060758191 | 0,998152514 | 0,060870649 | 16,42827894 | 1,001850905 | 16,45868612 |
| 30 | 30 | 0,06104854 | 0,998134798 | 0,06116262 | 16,34985548 | 1,001868687 | 16,38040824 |
| 29 | 31 | 0,061338883 | 0,998116998 | 0,061454602 | 16,27217445 | 1,001886554 | 16,30287279 |
| 28 | 32 | 0,06162922 | 0,998099113 | 0,061746594 | 16,19522534 | 1,001904507 | 16,22606927 |
| 27 | 33 | 0,061919553 | 0,998081143 | 0,062038596 | 16,11899785 | 1,001922546 | 16,14998736 |
| 26 | 34 | 0,062209881 | 0,99806309 | 0,062330609 | 16,04348186 | 1,001940669 | 16,07461695 |
| 25 | 35 | 0,062500203 | 0,998044951 | 0,062622633 | 15,96866744 | 1,001958878 | 15,99994812 |
| 24 | 36 | 0,06279052 | 0,998026728 | 0,062914667 | 15,89454484 | 1,001977173 | 15,92597111 |
| 23 | 37 | 0,063080831 | 0,998008421 | 0,063206712 | 15,82110451 | 1,001995553 | 15,85267637 |
| 22 | 38 | 0,063371137 | 0,997990029 | 0,063498768 | 15,74833705 | 1,002014019 | 15,7800545 |
| 21 | 39 | 0,063661438 | 0,997971553 | 0,063790834 | 15,67623325 | 1,00203257 | 15,70809629 |
| 20 | 40 | 0,063951734 | 0,997952993 | 0,064082912 | 15,60478406 | 1,002051206 | 15,63679268 |
| 19 | 41 | 0,064242024 | 0,997934348 | 0,064375 | 15,53398058 | 1,002069928 | 15,5661348 |
| 18 | 42 | 0,064532308 | 0,997915618 | 0,064667099 | 15,4638141 | 1,002088735 | 15,49611392 |
| 17 | 43 | 0,064822587 | 0,997896804 | 0,064959209 | 15,39427604 | 1,002107628 | 15,42672146 |
| 16 | 44 | 0,065112861 | 0,997877906 | 0,065251331 | 15,325358 | 1,002126607 | 15,35794901 |
| 15 | 45 | 0,065403129 | 0,997858923 | 0,065543463 | 15,25705169 | 1,002145671 | 15,2897883 |
| 14 | 46 | 0,065693392 | 0,997839856 | 0,065835606 | 15,189349 | 1,00216482 | 15,2223121 |
| 13 | 47 | 0,065983649 | 0,997820704 | 0,066127761 | 15,12224196 | 1,002184055 | 15,15526977 |
| 12 | 48 | 0,0662739 | 0,997801468 | 0,066419927 | 15,05572272 | 1,002203376 | 15,08889614 |
| 11 | 49 | 0,066564146 | 0,997782148 | 0,066712104 | 14,98978359 | 1,002222782 | 15,02310262 |
| 10 | 50 | 0,066854387 | 0,997762743 | 0,067004292 | 14,924417 | 1,002242274 | 14,95788163 |
| 9 | 51 | 0,067144621 | 0,997743253 | 0,067296492 | 14,85961552 | 1,002261851 | 14,89322575 |
| 8 | 52 | 0,06743485 | 0,99772368 | 0,067588704 | 14,79537182 | 1,002281514 | 14,82912767 |
| 7 | 53 | 0,067725073 | 0,997704021 | 0,067880926 | 14,73167875 | 1,002301262 | 14,7655802 |
| 6 | 54 | 0,068015291 | 0,997684279 | 0,068173161 | 14,66852922 | 1,002321096 | 14,70257629 |
| 5 | 55 | 0,068305502 | 0,997664452 | 0,068465407 | 14,60591632 | 1,002341016 | 14,640109 |
| 4 | 56 | 0,068595708 | 0,99764454 | 0,068757664 | 14,54383321 | 1,002361021 | 14,5781715 |
| 3 | 57 | 0,068885908 | 0,997624544 | 0,069049933 | 14,48227318 | 1,002381112 | 14,51675709 |
| 2 | 58 | 0,069176103 | 0,997604464 | 0,069342214 | 14,42122965 | 1,002401288 | 14,45585918 |
| 1 | 59 | 0,069466291 | 0,997584299 | 0,069634507 | 14,36069614 | 1,00242155 | 14,39547129 |
| 0 | 60 | 0,069756474 | 0,99756405 | 0,069926812 | 14,30066626 | 1,002441898 | 14,33558703 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

86°

| 4° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,069756474 | 0,99756405 | 0,069926812 | 14,30066626 | 1,002441898 | 14,33558703 |
| 59 | 1 | 0,07004665 | 0,997543717 | 0,070219128 | 14,24113374 | 1,002462331 | 14,27620013 |
| 58 | 2 | 0,070336821 | 0,997523299 | 0,070511457 | 14,18209243 | 1,002482851 | 14,21730445 |
| 57 | 3 | 0,070626986 | 0,997502796 | 0,070803797 | 14,12353626 | 1,002503455 | 14,1588939 |
| 56 | 4 | 0,070917145 | 0,99748221 | 0,07109615 | 14,06545925 | 1,002524146 | 14,10096252 |
| 55 | 5 | 0,071207298 | 0,997461538 | 0,071388515 | 14,00785555 | 1,002544922 | 14,04350445 |
| 54 | 6 | 0,071497444 | 0,997440783 | 0,071680891 | 13,95071939 | 1,002565783 | 13,98651391 |
| 53 | 7 | 0,071787585 | 0,997419943 | 0,07197328 | 13,89404508 | 1,002586731 | 13,92998523 |
| 52 | 8 | 0,07207772 | 0,997399019 | 0,072265681 | 13,83782703 | 1,002607764 | 13,87391282 |
| 51 | 9 | 0,072367848 | 0,99737801 | 0,072558095 | 13,78205976 | 1,002628883 | 13,81829118 |
| 50 | 10 | 0,072657971 | 0,997356917 | 0,072850521 | 13,72673785 | 1,002650088 | 13,76311491 |
| 49 | 11 | 0,072948087 | 0,997335739 | 0,073142959 | 13,67185597 | 1,002671378 | 13,70837867 |
| 48 | 12 | 0,073238197 | 0,997314477 | 0,07343541 | 13,6174089 | 1,002692754 | 13,65407723 |
| 47 | 13 | 0,073528301 | 0,997293131 | 0,073727873 | 13,56339147 | 1,002714216 | 13,60020544 |
| 46 | 14 | 0,073818399 | 0,9972717 | 0,074020348 | 13,5097986 | 1,002735764 | 13,54675822 |
| 45 | 15 | 0,07410849 | 0,997250185 | 0,074312837 | 13,45662531 | 1,002757397 | 13,49373057 |
| 44 | 16 | 0,074398575 | 0,997228586 | 0,074605338 | 13,40386668 | 1,002779116 | 13,44111759 |
| 43 | 17 | 0,074688654 | 0,997206902 | 0,074897851 | 13,35151787 | 1,002800921 | 13,38891442 |
| 42 | 18 | 0,074978727 | 0,997185134 | 0,075190378 | 13,2995741 | 1,002822812 | 13,3371163 |
| 41 | 19 | 0,075268793 | 0,997163281 | 0,075482917 | 13,2480307 | 1,002844789 | 13,28571855 |
| 40 | 20 | 0,075558853 | 0,997141344 | 0,075775469 | 13,19688303 | 1,002866851 | 13,23471654 |
| 39 | 21 | 0,075848906 | 0,997119323 | 0,076068034 | 13,14612656 | 1,002889 | 13,18410572 |
| 38 | 22 | 0,076138953 | 0,997097217 | 0,076360612 | 13,0957568 | 1,002911234 | 13,13388161 |
| 37 | 23 | 0,076428994 | 0,997075027 | 0,076653203 | 13,04576934 | 1,002933554 | 13,08403981 |
| 36 | 24 | 0,076719028 | 0,997052752 | 0,076945806 | 12,99615984 | 1,00295596 | 13,03457596 |
| 35 | 25 | 0,077009056 | 0,997030393 | 0,077238423 | 12,94692401 | 1,002978451 | 12,9854858 |
| 34 | 26 | 0,077299077 | 0,99700795 | 0,077531054 | 12,89805765 | 1,003001029 | 12,9367651 |
| 33 | 27 | 0,077589091 | 0,996985423 | 0,077823697 | 12,8495566 | 1,003023693 | 12,88840971 |
| 32 | 28 | 0,077879099 | 0,996962811 | 0,078116354 | 12,80141678 | 1,003046442 | 12,84041555 |
| 31 | 29 | 0,078169101 | 0,996940114 | 0,078409024 | 12,75363414 | 1,003069277 | 12,79277858 |
| 30 | 30 | 0,078459096 | 0,996917334 | 0,078701707 | 12,70620474 | 1,003092198 | 12,74549484 |
| 29 | 31 | 0,078749084 | 0,996894469 | 0,078994403 | 12,65912464 | 1,003115206 | 12,69856042 |
| 28 | 32 | 0,079039065 | 0,996871519 | 0,079287114 | 12,61239001 | 1,003138299 | 12,65197146 |
| 27 | 33 | 0,07932904 | 0,996848486 | 0,079579837 | 12,56599705 | 1,003161478 | 12,60572417 |
| 26 | 34 | 0,079619008 | 0,996825368 | 0,079872574 | 12,51994201 | 1,003184743 | 12,55981481 |
| 25 | 35 | 0,07990897 | 0,996802165 | 0,080165325 | 12,47422121 | 1,003208094 | 12,51423968 |
| 24 | 36 | 0,080198924 | 0,996778878 | 0,08045809 | 12,42883102 | 1,003231531 | 12,46899517 |
| 23 | 37 | 0,080488872 | 0,996755507 | 0,080750868 | 12,38376785 | 1,003255054 | 12,42407768 |
| 22 | 38 | 0,080778813 | 0,996732052 | 0,08104366 | 12,33902818 | 1,003278663 | 12,37948369 |
| 21 | 39 | 0,081068747 | 0,996708512 | 0,081336465 | 12,29460852 | 1,003302358 | 12,33520972 |
| 20 | 40 | 0,081358675 | 0,996684888 | 0,081629285 | 12,25050546 | 1,003326138 | 12,29125234 |
| 19 | 41 | 0,081648595 | 0,99666118 | 0,081922118 | 12,2067156 | 1,003350005 | 12,24760816 |
| 18 | 42 | 0,081938509 | 0,996637387 | 0,082214966 | 12,16323562 | 1,003373958 | 12,20427387 |
| 17 | 43 | 0,082228415 | 0,99661351 | 0,082507827 | 12,12006223 | 1,003397998 | 12,16124617 |
| 16 | 44 | 0,082518315 | 0,996589548 | 0,082800703 | 12,0771922 | 1,003422123 | 12,11852183 |
| 15 | 45 | 0,082808208 | 0,996565502 | 0,083093592 | 12,03462232 | 1,003446334 | 12,07609765 |
| 14 | 46 | 0,083098093 | 0,996541372 | 0,083386496 | 11,99234946 | 1,003470631 | 12,03397048 |
| 13 | 47 | 0,083387972 | 0,996517158 | 0,083679414 | 11,9503705 | 1,003495015 | 11,99213722 |
| 12 | 48 | 0,083677843 | 0,996492859 | 0,083972346 | 11,90868239 | 1,003519484 | 11,95059481 |
| 11 | 49 | 0,083967708 | 0,996468476 | 0,084265293 | 11,8672821 | 1,00354404 | 11,90934022 |
| 10 | 50 | 0,084257565 | 0,996444009 | 0,084558254 | 11,82616667 | 1,003568681 | 11,86837049 |
| 9 | 51 | 0,084547415 | 0,996419457 | 0,084851229 | 11,78533314 | 1,003593409 | 11,82768267 |
| 8 | 52 | 0,084837259 | 0,996394821 | 0,085144219 | 11,74477863 | 1,003618223 | 11,78727386 |
| 7 | 53 | 0,085127094 | 0,996370101 | 0,085437223 | 11,70450028 | 1,003643123 | 11,74714122 |
| 6 | 54 | 0,085416923 | 0,996345296 | 0,085730242 | 11,66449527 | 1,00366811 | 11,70728192 |
| 5 | 55 | 0,085706745 | 0,996320407 | 0,086023275 | 11,62476082 | 1,003693182 | 11,66769318 |
| 4 | 56 | 0,085996559 | 0,996295434 | 0,086316323 | 11,5852942 | 1,003718341 | 11,62837227 |
| 3 | 57 | 0,086286366 | 0,996270376 | 0,086609386 | 11,54609268 | 1,003743586 | 11,58931647 |
| 2 | 58 | 0,086576165 | 0,996245235 | 0,086902464 | 11,50715361 | 1,003768917 | 11,55052311 |
| 1 | 59 | 0,086865958 | 0,996220009 | 0,087195556 | 11,46847435 | 1,003794334 | 11,51198957 |
| 0 | 60 | 0,087155743 | 0,996194698 | 0,087488664 | 11,4300523 | 1,003819838 | 11,47371325 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

85°

| 5° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,087155743 | 0,996194698 | 0,087488664 | 11,4300523 | 1,003819838 | 11,47371325 |
| 59 | 1 | 0,08744552 | 0,996169303 | 0,087781786 | 11,39188491 | 1,003845427 | 11,43569157 |
| 58 | 2 | 0,087735291 | 0,996143824 | 0,088074923 | 11,35396963 | 1,003871103 | 11,39792202 |
| 57 | 3 | 0,088025053 | 0,996118261 | 0,088368075 | 11,31630398 | 1,003896866 | 11,36040209 |
| 56 | 4 | 0,088314809 | 0,996092613 | 0,088661242 | 11,27888549 | 1,003922714 | 11,32312933 |
| 55 | 5 | 0,088604557 | 0,996066882 | 0,088954425 | 11,24171172 | 1,003948649 | 11,2861013 |
| 54 | 6 | 0,088894297 | 0,996041065 | 0,089247622 | 11,20478029 | 1,00397467 | 11,24931559 |
| 53 | 7 | 0,08918403 | 0,996015165 | 0,089540835 | 11,16808882 | 1,004000777 | 11,21276986 |
| 52 | 8 | 0,089473755 | 0,99598918 | 0,089834063 | 11,13163497 | 1,004026971 | 11,17646175 |
| 51 | 9 | 0,089763473 | 0,995963111 | 0,090127307 | 11,09541644 | 1,004053251 | 11,14038896 |
| 50 | 10 | 0,090053183 | 0,995936958 | 0,090420565 | 11,05943096 | 1,004079618 | 11,10454921 |
| 49 | 11 | 0,090342885 | 0,99591072 | 0,09071384 | 11,02367626 | 1,00410607 | 11,06894025 |
| 48 | 12 | 0,09063258 | 0,995884399 | 0,091007129 | 10,98815014 | 1,00413261 | 11,03355987 |
| 47 | 13 | 0,090922267 | 0,995857993 | 0,091300434 | 10,9528504 | 1,004159235 | 10,99840588 |
| 46 | 14 | 0,091211947 | 0,995831502 | 0,091593755 | 10,91777488 | 1,004185947 | 10,9634761 |
| 45 | 15 | 0,091501619 | 0,995804928 | 0,091887092 | 10,88292144 | 1,004212745 | 10,92876842 |
| 44 | 16 | 0,091791283 | 0,995778269 | 0,092180444 | 10,84828798 | 1,00423963 | 10,8942807 |
| 43 | 17 | 0,092080939 | 0,995751526 | 0,092473812 | 10,81387241 | 1,004266601 | 10,86001089 |
| 42 | 18 | 0,092370587 | 0,995724698 | 0,092767195 | 10,77967268 | 1,004293659 | 10,82595692 |
| 41 | 19 | 0,092660228 | 0,995697787 | 0,093060595 | 10,74568676 | 1,004320802 | 10,79211675 |
| 40 | 20 | 0,092949861 | 0,995670791 | 0,09335401 | 10,71191265 | 1,004348033 | 10,75848839 |
| 39 | 21 | 0,093239486 | 0,995643711 | 0,093647441 | 10,67834835 | 1,00437535 | 10,72506986 |
| 38 | 22 | 0,093529103 | 0,995616546 | 0,093940889 | 10,64499193 | 1,004402753 | 10,6918592 |
| 37 | 23 | 0,093818712 | 0,995589297 | 0,094234352 | 10,61184145 | 1,004430243 | 10,65885448 |
| 36 | 24 | 0,094108313 | 0,995561965 | 0,094527831 | 10,57889499 | 1,004457819 | 10,6260538 |
| 35 | 25 | 0,094397907 | 0,995534547 | 0,094821327 | 10,54615069 | 1,004485482 | 10,59345526 |
| 34 | 26 | 0,094687492 | 0,995507046 | 0,095114838 | 10,51360667 | 1,004513232 | 10,56105702 |
| 33 | 27 | 0,094977069 | 0,995479461 | 0,095408366 | 10,48126111 | 1,004541068 | 10,52885722 |
| 32 | 28 | 0,095266638 | 0,995451791 | 0,095701911 | 10,44911218 | 1,00456899 | 10,49685407 |
| 31 | 29 | 0,095556199 | 0,995424037 | 0,095995471 | 10,4171581 | 1,004596999 | 10,46504576 |
| 30 | 30 | 0,095845753 | 0,995396198 | 0,096289048 | 10,38539708 | 1,004625095 | 10,43343052 |
| 29 | 31 | 0,096135297 | 0,995368276 | 0,096582642 | 10,35382739 | 1,004653277 | 10,40200661 |
| 28 | 32 | 0,096424834 | 0,995340269 | 0,096876252 | 10,32244729 | 1,004681546 | 10,37077229 |
| 27 | 33 | 0,096714363 | 0,995312178 | 0,097169878 | 10,29125507 | 1,004709901 | 10,33972586 |
| 26 | 34 | 0,097003883 | 0,995284003 | 0,097463521 | 10,26024905 | 1,004738343 | 10,30886563 |
| 25 | 35 | 0,097293396 | 0,995255744 | 0,097757181 | 10,22942756 | 1,004766872 | 10,27818993 |
| 24 | 36 | 0,0975829 | 0,9952274 | 0,098050857 | 10,19878895 | 1,004795487 | 10,24769711 |
| 23 | 37 | 0,097872396 | 0,995198972 | 0,098344455 | 10,1683316 | 1,004824189 | 10,21738555 |
| 22 | 38 | 0,098161883 | 0,99517046 | 0,09863826 | 10,13805389 | 1,004852978 | 10,18725364 |
| 21 | 39 | 0,098451362 | 0,995141864 | 0,098931987 | 10,10795424 | 1,004881853 | 10,15729978 |
| 20 | 40 | 0,098740833 | 0,995113183 | 0,099225731 | 10,07803107 | 1,004910815 | 10,12752241 |
| 19 | 41 | 0,099030296 | 0,995084419 | 0,099519492 | 10,04828283 | 1,004939863 | 10,09791997 |
| 18 | 42 | 0,09931975 | 0,99505557 | 0,099813269 | 10,01870799 | 1,004968999 | 10,06849094 |
| 17 | 43 | 0,099609195 | 0,995026637 | 0,100107064 | 9,989305026 | 1,004998221 | 10,03923378 |
| 16 | 44 | 0,099898633 | 0,99499762 | 0,100400876 | 9,960072447 | 1,00502753 | 10,01014701 |
| 15 | 45 | 0,100188062 | 0,994968518 | 0,100694705 | 9,931008767 | 1,005056926 | 9,98122914 |
| 14 | 46 | 0,100477482 | 0,994939333 | 0,100988551 | 9,902112523 | 1,005086408 | 9,952478708 |
| 13 | 47 | 0,100766894 | 0,994910063 | 0,101282415 | 9,873382267 | 1,005115977 | 9,923894266 |
| 12 | 48 | 0,101056297 | 0,994880709 | 0,101576296 | 9,844816568 | 1,005145633 | 9,895474383 |
| 11 | 49 | 0,101345692 | 0,994851271 | 0,101870194 | 9,816414011 | 1,005175376 | 9,867217644 |
| 10 | 50 | 0,101635078 | 0,994821748 | 0,10216411 | 9,788173198 | 1,005205206 | 9,839122652 |
| 9 | 51 | 0,101924456 | 0,994792142 | 0,102458043 | 9,760092747 | 1,005235122 | 9,811188024 |
| 8 | 52 | 0,102213825 | 0,994762451 | 0,102751993 | 9,732171291 | 1,005265125 | 9,783412392 |
| 7 | 53 | 0,102503185 | 0,994732676 | 0,103045962 | 9,704407478 | 1,005295215 | 9,755794406 |
| 6 | 54 | 0,102792537 | 0,994702817 | 0,103339947 | 9,676799972 | 1,005325392 | 9,72833273 |
| 5 | 55 | 0,10308188 | 0,994672874 | 0,103633951 | 9,649347453 | 1,005355656 | 9,701026042 |
| 4 | 56 | 0,103371214 | 0,994642847 | 0,103927972 | 9,622048615 | 1,005386007 | 9,673873038 |
| 3 | 57 | 0,103660539 | 0,994612735 | 0,104222011 | 9,594902166 | 1,005416445 | 9,646872425 |
| 2 | 58 | 0,103949856 | 0,994582539 | 0,104516068 | 9,567906829 | 1,005446969 | 9,620022926 |
| 1 | 59 | 0,104239164 | 0,994552259 | 0,104810143 | 9,541061341 | 1,005477581 | 9,593323278 |
| 0 | 60 | 0,104528463 | 0,994521895 | 0,105104235 | 9,514364454 | 1,00550828 | 9,566772234 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

84°

| 6° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,104528463 | 0,994521895 | 0,105104235 | 9,514364454 | 1,00550828 | 9,566772234 |
| 59 | 1 | 0,104817754 | 0,994491447 | 0,105398346 | 9,487814933 | 1,005539065 | 9,540368557 |
| 58 | 2 | 0,105107035 | 0,994460915 | 0,105692475 | 9,461411556 | 1,005569937 | 9,514111027 |
| 57 | 3 | 0,105396307 | 0,994430298 | 0,105986621 | 9,435153115 | 1,005600897 | 9,487998435 |
| 56 | 4 | 0,105685571 | 0,994399598 | 0,106280786 | 9,409038417 | 1,005631943 | 9,462029588 |
| 55 | 5 | 0,105974826 | 0,994368813 | 0,106574969 | 9,383066278 | 1,005663077 | 9,436203304 |
| 54 | 6 | 0,106264071 | 0,994337944 | 0,106869171 | 9,357235532 | 1,005694297 | 9,410518413 |
| 53 | 7 | 0,106553308 | 0,994306991 | 0,107163339 | 9,331545023 | 1,005725605 | 9,384973762 |
| 52 | 8 | 0,106842536 | 0,994275954 | 0,107457628 | 9,305993606 | 1,005756999 | 9,359568205 |
| 51 | 9 | 0,107131754 | 0,994244833 | 0,107751884 | 9,280580151 | 1,005788481 | 9,334300613 |
| 50 | 10 | 0,107420964 | 0,994213627 | 0,108046159 | 9,25530354 | 1,00582005 | 9,309169867 |
| 49 | 11 | 0,107710164 | 0,994182338 | 0,108340453 | 9,230162665 | 1,005851706 | 9,28417486 |
| 48 | 12 | 0,107999356 | 0,994150964 | 0,108634764 | 9,205156433 | 1,005883449 | 9,259314497 |
| 47 | 13 | 0,108288538 | 0,994119506 | 0,108929095 | 9,180283761 | 1,005915279 | 9,234587696 |
| 46 | 14 | 0,108577711 | 0,994087964 | 0,109223444 | 9,155543576 | 1,005947196 | 9,209993386 |
| 45 | 15 | 0,108866875 | 0,994056338 | 0,109517812 | 9,130934819 | 1,0059792 | 9,185530506 |
| 44 | 16 | 0,10915603 | 0,994024628 | 0,109812198 | 9,106456442 | 1,006011292 | 9,161198007 |
| 43 | 17 | 0,109445175 | 0,993992834 | 0,110106604 | 9,082107406 | 1,00604347 | 9,136994853 |
| 42 | 18 | 0,109734311 | 0,993960955 | 0,110401028 | 9,057886686 | 1,006075736 | 9,112920016 |
| 41 | 19 | 0,110023438 | 0,993928993 | 0,110695471 | 9,033793266 | 1,006108089 | 9,088972482 |
| 40 | 20 | 0,110312556 | 0,993896946 | 0,110989933 | 9,00982614 | 1,00614053 | 9,065151244 |
| 39 | 21 | 0,110601664 | 0,993864816 | 0,111284414 | 8,985984315 | 1,006173057 | 9,041455309 |
| 38 | 22 | 0,110890763 | 0,993832601 | 0,111578914 | 8,962266805 | 1,006205672 | 9,017883692 |
| 37 | 23 | 0,111179852 | 0,993800302 | 0,111873434 | 8,938672638 | 1,006238374 | 8,994435421 |
| 36 | 24 | 0,111468932 | 0,993767919 | 0,112167972 | 8,91520085 | 1,006271163 | 8,97110953 |
| 35 | 25 | 0,111758003 | 0,993735452 | 0,11246253 | 8,891850487 | 1,00630404 | 8,947905067 |
| 34 | 26 | 0,112047064 | 0,993702901 | 0,112757107 | 8,868620605 | 1,006337004 | 8,924821087 |
| 33 | 27 | 0,112336116 | 0,993670266 | 0,113051703 | 8,845510271 | 1,006370055 | 8,901856658 |
| 32 | 28 | 0,112625158 | 0,993637546 | 0,113346319 | 8,82251856 | 1,006403194 | 8,879010854 |
| 31 | 29 | 0,112914191 | 0,993604743 | 0,113640954 | 8,799644557 | 1,006436419 | 8,85628276 |
| 30 | 30 | 0,113203214 | 0,993571856 | 0,113935608 | 8,776887357 | 1,006469733 | 8,833671472 |
| 29 | 31 | 0,113492227 | 0,993538884 | 0,114230282 | 8,754246063 | 1,006503133 | 8,811176093 |
| 28 | 32 | 0,113781231 | 0,993505829 | 0,114524976 | 8,731719789 | 1,006536621 | 8,788795735 |
| 27 | 33 | 0,114070226 | 0,993472689 | 0,114819689 | 8,709307657 | 1,006570197 | 8,766529522 |
| 26 | 34 | 0,11435921 | 0,993439465 | 0,115114422 | 8,687008797 | 1,00660386 | 8,744376583 |
| 25 | 35 | 0,114648185 | 0,993406157 | 0,115409175 | 8,664822349 | 1,00663761 | 8,722336059 |
| 24 | 36 | 0,11493715 | 0,993372766 | 0,115703948 | 8,642747461 | 1,006671448 | 8,700407098 |
| 23 | 37 | 0,115226106 | 0,99333929 | 0,11599874 | 8,620783291 | 1,006705373 | 8,678588857 |
| 22 | 38 | 0,115515052 | 0,99330573 | 0,116293552 | 8,598929004 | 1,006739385 | 8,656880501 |
| 21 | 39 | 0,115803988 | 0,993272086 | 0,116588385 | 8,577183773 | 1,006773486 | 8,635281204 |
| 20 | 40 | 0,116092914 | 0,993238358 | 0,116883237 | 8,555546781 | 1,006807673 | 8,613790148 |
| 19 | 41 | 0,116381831 | 0,993204546 | 0,117178109 | 8,534017218 | 1,006841948 | 8,592406524 |
| 18 | 42 | 0,116670737 | 0,99317065 | 0,117473001 | 8,512594282 | 1,006876311 | 8,57112953 |
| 17 | 43 | 0,116959634 | 0,993136669 | 0,117767914 | 8,49127718 | 1,006910761 | 8,549958371 |
| 16 | 44 | 0,117248521 | 0,993102605 | 0,118062847 | 8,470065125 | 1,006945299 | 8,528892262 |
| 15 | 45 | 0,117537397 | 0,993068457 | 0,1183578 | 8,44895734 | 1,006979925 | 8,507930426 |
| 14 | 46 | 0,117826264 | 0,993034225 | 0,118652773 | 8,427953053 | 1,007014638 | 8,487072091 |
| 13 | 47 | 0,118115121 | 0,992999908 | 0,118947767 | 8,407051503 | 1,007049438 | 8,466316494 |
| 12 | 48 | 0,118403968 | 0,992965508 | 0,119242781 | 8,386251933 | 1,007084327 | 8,44566288 |
| 11 | 49 | 0,118692805 | 0,992931024 | 0,119537815 | 8,365553596 | 1,007119302 | 8,425110502 |
| 10 | 50 | 0,118981632 | 0,992896455 | 0,11983287 | 8,344955751 | 1,007154366 | 8,404658618 |
| 9 | 51 | 0,119270449 | 0,992861803 | 0,120127946 | 8,324457663 | 1,007189517 | 8,384306494 |
| 8 | 52 | 0,119559256 | 0,992827067 | 0,120423042 | 8,304058608 | 1,007224756 | 8,364053405 |
| 7 | 53 | 0,119848052 | 0,992792246 | 0,120718159 | 8,283757865 | 1,007260083 | 8,343898631 |
| 6 | 54 | 0,120136839 | 0,992757342 | 0,121013297 | 8,263554723 | 1,007295497 | 8,32384146 |
| 5 | 55 | 0,120425615 | 0,992722354 | 0,121308455 | 8,243448475 | 1,007330999 | 8,303881186 |
| 4 | 56 | 0,120714381 | 0,992687281 | 0,121603634 | 8,223438422 | 1,007366589 | 8,28401711 |
| 3 | 57 | 0,121003137 | 0,992652125 | 0,121898835 | 8,203523874 | 1,007402266 | 8,264248541 |
| 2 | 58 | 0,121291883 | 0,992616884 | 0,122194056 | 8,183704143 | 1,007438031 | 8,244574792 |
| 1 | 59 | 0,121580618 | 0,99258156 | 0,122489298 | 8,163978552 | 1,007473885 | 8,224995185 |
| 0 | 60 | 0,121869343 | 0,992546152 | 0,122784561 | 8,144346428 | 1,007509825 | 8,205509048 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

83°

| 7° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,121869343 | 0,992546152 | 0,122784561 | 8,144346428 | 1,007509825 | 8,205509048 |
| 59 | 1 | 0,122158058 | 0,992510659 | 0,123079845 | 8,124807105 | 1,007545854 | 8,186115714 |
| 58 | 2 | 0,122446763 | 0,992475083 | 0,12337515 | 8,105359922 | 1,007581971 | 8,166814524 |
| 57 | 3 | 0,122735457 | 0,992439423 | 0,123670477 | 8,086004228 | 1,007618175 | 8,147604824 |
| 56 | 4 | 0,123024141 | 0,992403678 | 0,123965825 | 8,066739374 | 1,007654467 | 8,128485967 |
| 55 | 5 | 0,123312814 | 0,99236785 | 0,124261194 | 8,047564718 | 1,007690848 | 8,109457312 |
| 54 | 6 | 0,123601477 | 0,992331938 | 0,124556584 | 8,028479627 | 1,007727316 | 8,090518223 |
| 53 | 7 | 0,123890129 | 0,992295942 | 0,124851996 | 8,00948347 | 1,007763872 | 8,071668072 |
| 52 | 8 | 0,124178771 | 0,992259862 | 0,12514743 | 7,990575625 | 1,007800516 | 8,052906234 |
| 51 | 9 | 0,124467403 | 0,992223697 | 0,125442884 | 7,971755473 | 1,007837247 | 8,034232092 |
| 50 | 10 | 0,124756023 | 0,992187449 | 0,125738361 | 7,953022402 | 1,007874067 | 8,015645035 |
| 49 | 11 | 0,125044634 | 0,992151117 | 0,126033859 | 7,934375808 | 1,007910975 | 7,997144457 |
| 48 | 12 | 0,125333234 | 0,992114701 | 0,126329378 | 7,915815088 | 1,007947971 | 7,978729756 |
| 47 | 13 | 0,125621823 | 0,992078201 | 0,12662492 | 7,897339649 | 1,007985055 | 7,960400337 |
| 46 | 14 | 0,125910401 | 0,992041618 | 0,126920483 | 7,8789489 | 1,008022226 | 7,942155612 |
| 45 | 15 | 0,126198969 | 0,99200495 | 0,127216068 | 7,860642258 | 1,008059486 | 7,923994997 |
| 44 | 16 | 0,126487526 | 0,991968198 | 0,127511675 | 7,842419143 | 1,008096834 | 7,905917911 |
| 43 | 17 | 0,126776073 | 0,991931362 | 0,127807304 | 7,824278983 | 1,00813427 | 7,887923783 |
| 42 | 18 | 0,127064609 | 0,991894443 | 0,128102954 | 7,806221209 | 1,008171794 | 7,870012044 |
| 41 | 19 | 0,127353134 | 0,991857439 | 0,128398627 | 7,788245258 | 1,008209407 | 7,85218213 |
| 40 | 20 | 0,127641648 | 0,991820352 | 0,128694322 | 7,770350573 | 1,008247107 | 7,834433484 |
| 39 | 21 | 0,127930151 | 0,99178318 | 0,128990039 | 7,752536599 | 1,008284895 | 7,816765554 |
| 38 | 22 | 0,128218644 | 0,991745925 | 0,129285778 | 7,734802791 | 1,008322772 | 7,799177791 |
| 37 | 23 | 0,128507126 | 0,991708586 | 0,12958154 | 7,717148604 | 1,008360737 | 7,781669652 |
| 36 | 24 | 0,128795597 | 0,991671162 | 0,129877324 | 7,6995735 | 1,00839879 | 7,7642406 |
| 35 | 25 | 0,129084057 | 0,991633655 | 0,13017313 | 7,682076948 | 1,008436931 | 7,746890101 |
| 34 | 26 | 0,129372506 | 0,991596064 | 0,130468958 | 7,664658417 | 1,00847516 | 7,729617626 |
| 33 | 27 | 0,129660944 | 0,991558389 | 0,130764809 | 7,647317385 | 1,008513478 | 7,712422653 |
| 32 | 28 | 0,129949371 | 0,991520631 | 0,131060683 | 7,630053332 | 1,008551884 | 7,695304663 |
| 31 | 29 | 0,130237787 | 0,991482788 | 0,131356579 | 7,612865745 | 1,008590378 | 7,67826314 |
| 30 | 30 | 0,130526192 | 0,991444861 | 0,131652498 | 7,595754113 | 1,008628961 | 7,661297576 |
| 29 | 31 | 0,130814586 | 0,991406851 | 0,131948439 | 7,578717931 | 1,008667631 | 7,644407464 |
| 28 | 32 | 0,131102969 | 0,991368757 | 0,132244403 | 7,561756698 | 1,00870639 | 7,627592304 |
| 27 | 33 | 0,131391341 | 0,991330578 | 0,13254039 | 7,544869918 | 1,008745238 | 7,610851601 |
| 26 | 34 | 0,131679702 | 0,991292316 | 0,132836399 | 7,5280571 | 1,008784174 | 7,594184861 |
| 25 | 35 | 0,131968052 | 0,99125397 | 0,133132432 | 7,511317754 | 1,008823198 | 7,577591597 |
| 24 | 36 | 0,13225639 | 0,99121554 | 0,133428487 | 7,494651399 | 1,00886231 | 7,561071326 |
| 23 | 37 | 0,132544718 | 0,991177026 | 0,133724566 | 7,478057554 | 1,008901511 | 7,544623568 |
| 22 | 38 | 0,132833034 | 0,991138429 | 0,134020667 | 7,461535745 | 1,008940801 | 7,528247849 |
| 21 | 39 | 0,133121339 | 0,991099747 | 0,134316792 | 7,445085501 | 1,008980178 | 7,511943698 |
| 20 | 40 | 0,133409632 | 0,991060982 | 0,13461294 | 7,428706355 | 1,009019645 | 7,495710648 |
| 19 | 41 | 0,133697914 | 0,991022133 | 0,134909111 | 7,412397845 | 1,0090592 | 7,479548236 |
| 18 | 42 | 0,133986185 | 0,9909832 | 0,135205305 | 7,396159512 | 1,009098843 | 7,463456004 |
| 17 | 43 | 0,134274445 | 0,990944183 | 0,135501522 | 7,3799909 | 1,009138574 | 7,447433497 |
| 16 | 44 | 0,134562693 | 0,990905082 | 0,135797763 | 7,36389156 | 1,009178395 | 7,431480264 |
| 15 | 45 | 0,13485093 | 0,990865897 | 0,136094027 | 7,347861045 | 1,009218304 | 7,415595858 |
| 14 | 46 | 0,135139156 | 0,990826629 | 0,136390315 | 7,33189891 | 1,009258301 | 7,399779837 |
| 13 | 47 | 0,13542737 | 0,990787277 | 0,136686626 | 7,316004718 | 1,009298387 | 7,38403176 |
| 12 | 48 | 0,135715572 | 0,99074784 | 0,136982961 | 7,300178032 | 1,009338561 | 7,368351193 |
| 11 | 49 | 0,136003764 | 0,99070832 | 0,137279319 | 7,284418421 | 1,009378825 | 7,352737703 |
| 10 | 50 | 0,136291943 | 0,990668717 | 0,137575701 | 7,268725456 | 1,009419176 | 7,337190862 |
| 9 | 51 | 0,136580111 | 0,990629029 | 0,137872107 | 7,253098713 | 1,009459617 | 7,321710247 |
| 8 | 52 | 0,136868268 | 0,990589258 | 0,138168536 | 7,237537771 | 1,009500146 | 7,306295435 |
| 7 | 53 | 0,137156413 | 0,990549402 | 0,13846499 | 7,222042213 | 1,009540764 | 7,29094601 |
| 6 | 54 | 0,137444546 | 0,990509463 | 0,138761467 | 7,206611625 | 1,00958147 | 7,275661558 |
| 5 | 55 | 0,137732668 | 0,99046944 | 0,139057968 | 7,191245596 | 1,009622265 | 7,260441669 |
| 4 | 56 | 0,138020778 | 0,990429334 | 0,139354493 | 7,17594372 | 1,009663149 | 7,245285934 |
| 3 | 57 | 0,138308876 | 0,990389143 | 0,139651042 | 7,160705593 | 1,009704122 | 7,230193952 |
| 2 | 58 | 0,138596963 | 0,990348869 | 0,139947616 | 7,145530815 | 1,009745183 | 7,215165322 |
| 1 | 59 | 0,138885038 | 0,990308511 | 0,140244213 | 7,130418989 | 1,009786333 | 7,200199647 |
| 0 | 60 | 0,139173101 | 0,990268069 | 0,140540835 | 7,115369722 | 1,009827573 | 7,185296534 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

82°

| 8° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,139173101 | 0,990268069 | 0,140540835 | 7,115369722 | 1,009827573 | 7,185296534 |
| 59 | 1 | 0,139461152 | 0,990227543 | 0,140837481 | 7,100382624 | 1,0098689 | 7,170455593 |
| 58 | 2 | 0,139749192 | 0,990186934 | 0,141134151 | 7,085457307 | 1,009910317 | 7,155676436 |
| 57 | 3 | 0,14003722 | 0,99014624 | 0,141430845 | 7,070593388 | 1,009951823 | 7,14095868 |
| 56 | 4 | 0,140325236 | 0,990105463 | 0,141727564 | 7,055790487 | 1,009993417 | 7,126301944 |
| 55 | 5 | 0,14061324 | 0,990064602 | 0,142024308 | 7,041048225 | 1,0100351 | 7,111705851 |
| 54 | 6 | 0,140901232 | 0,990023658 | 0,142321076 | 7,026366229 | 1,010076873 | 7,097170026 |
| 53 | 7 | 0,141189212 | 0,989982629 | 0,142617868 | 7,011744127 | 1,010118734 | 7,082694099 |
| 52 | 8 | 0,14147718 | 0,989941517 | 0,142914685 | 6,997181551 | 1,010160684 | 7,068277701 |
| 51 | 9 | 0,141765137 | 0,989900321 | 0,143211527 | 6,982678136 | 1,010202723 | 7,053920467 |
| 50 | 10 | 0,142053081 | 0,989859042 | 0,143508394 | 6,96823352 | 1,010244851 | 7,039622035 |
| 49 | 11 | 0,142341013 | 0,989817678 | 0,143805285 | 6,953847343 | 1,010287068 | 7,025382044 |
| 48 | 12 | 0,142628934 | 0,989776231 | 0,144102201 | 6,939519249 | 1,010329374 | 7,01120014 |
| 47 | 13 | 0,142916842 | 0,9897347 | 0,144399142 | 6,925248885 | 1,010371769 | 6,997075969 |
| 46 | 14 | 0,143204738 | 0,989693085 | 0,144696108 | 6,911035899 | 1,010414254 | 6,983009179 |
| 45 | 15 | 0,143492622 | 0,989651387 | 0,144993099 | 6,896879945 | 1,010456827 | 6,968999424 |
| 44 | 16 | 0,143780494 | 0,989609605 | 0,145290116 | 6,882780677 | 1,010499489 | 6,955046358 |
| 43 | 17 | 0,144068354 | 0,989567739 | 0,145587157 | 6,868737753 | 1,010542241 | 6,941149639 |
| 42 | 18 | 0,144356201 | 0,989525789 | 0,145884223 | 6,854750833 | 1,010585081 | 6,927308928 |
| 41 | 19 | 0,144644036 | 0,989483756 | 0,146181315 | 6,840819581 | 1,010628011 | 6,913523888 |
| 40 | 20 | 0,144931859 | 0,989441639 | 0,146478432 | 6,826943664 | 1,01067103 | 6,899794185 |
| 39 | 21 | 0,14521967 | 0,989399438 | 0,146775574 | 6,813122749 | 1,010714138 | 6,886119487 |
| 38 | 22 | 0,145507469 | 0,989357153 | 0,147072741 | 6,799356507 | 1,010757335 | 6,872499466 |
| 37 | 23 | 0,145795255 | 0,989314785 | 0,147369934 | 6,785644614 | 1,010800622 | 6,858933796 |
| 36 | 24 | 0,146083029 | 0,989272333 | 0,147667153 | 6,771986744 | 1,010843998 | 6,845422154 |
| 35 | 25 | 0,14637079 | 0,989229797 | 0,147964397 | 6,758382578 | 1,010887463 | 6,831964217 |
| 34 | 26 | 0,146658539 | 0,989187178 | 0,148261666 | 6,744831796 | 1,010931017 | 6,818559669 |
| 33 | 27 | 0,146946276 | 0,989144475 | 0,148558961 | 6,731334084 | 1,010974661 | 6,805208193 |
| 32 | 28 | 0,147234 | 0,989101688 | 0,148856282 | 6,717889127 | 1,011018394 | 6,791909475 |
| 31 | 29 | 0,147521712 | 0,989058818 | 0,149153629 | 6,704496615 | 1,011062216 | 6,778663206 |
| 30 | 30 | 0,147809411 | 0,989015863 | 0,149451001 | 6,691156238 | 1,011106128 | 6,765469075 |
| 29 | 31 | 0,148097098 | 0,988972826 | 0,1497484 | 6,677867692 | 1,011150129 | 6,752326778 |
| 28 | 32 | 0,148384772 | 0,988929704 | 0,150045824 | 6,664630672 | 1,011194219 | 6,73923601 |
| 27 | 33 | 0,148672434 | 0,988886499 | 0,150343274 | 6,651444877 | 1,011238399 | 6,72619647 |
| 26 | 34 | 0,148960083 | 0,98884321 | 0,15064075 | 6,638310007 | 1,011282669 | 6,713207859 |
| 25 | 35 | 0,14924772 | 0,988799837 | 0,150938253 | 6,625225767 | 1,011327027 | 6,70026988 |
| 24 | 36 | 0,149535343 | 0,988756381 | 0,151235781 | 6,612191862 | 1,011371475 | 6,68738224 |
| 23 | 37 | 0,149822955 | 0,988712841 | 0,151533336 | 6,599208 | 1,011416013 | 6,674544646 |
| 22 | 38 | 0,150110553 | 0,988669218 | 0,151830916 | 6,586273891 | 1,01146064 | 6,661756808 |
| 21 | 39 | 0,150398139 | 0,98862551 | 0,152128523 | 6,573389247 | 1,011505357 | 6,649018438 |
| 20 | 40 | 0,150685712 | 0,988581719 | 0,152426157 | 6,560553783 | 1,011550164 | 6,636329252 |
| 19 | 41 | 0,150973273 | 0,988537845 | 0,152723817 | 6,547767215 | 1,011595059 | 6,623688965 |
| 18 | 42 | 0,15126082 | 0,988493887 | 0,153021503 | 6,535029264 | 1,011640045 | 6,611097298 |
| 17 | 43 | 0,151548355 | 0,988449845 | 0,153319216 | 6,522339649 | 1,01168512 | 6,59855397 |
| 16 | 44 | 0,151835877 | 0,98840572 | 0,153616955 | 6,509698095 | 1,011730285 | 6,586058707 |
| 15 | 45 | 0,152123386 | 0,98836151 | 0,153914721 | 6,497104326 | 1,011775539 | 6,573611231 |
| 14 | 46 | 0,152410882 | 0,988317218 | 0,154212514 | 6,48455807 | 1,011820883 | 6,561211272 |
| 13 | 47 | 0,152698366 | 0,988272841 | 0,154510333 | 6,472059056 | 1,011866317 | 6,548858559 |
| 12 | 48 | 0,152985836 | 0,988228381 | 0,154808179 | 6,459607016 | 1,01191184 | 6,536552823 |
| 11 | 49 | 0,153273294 | 0,988183838 | 0,155106052 | 6,447201684 | 1,011957453 | 6,524293797 |
| 10 | 50 | 0,153560738 | 0,988139211 | 0,155403952 | 6,434842795 | 1,012003156 | 6,512081219 |
| 9 | 51 | 0,15384817 | 0,9880945 | 0,155701879 | 6,422530087 | 1,012048949 | 6,499914824 |
| 8 | 52 | 0,154135588 | 0,988049705 | 0,155999832 | 6,410263299 | 1,012094831 | 6,487794353 |
| 7 | 53 | 0,154422994 | 0,988004827 | 0,156297813 | 6,398042173 | 1,012140804 | 6,475719547 |
| 6 | 54 | 0,154710386 | 0,987959866 | 0,156595821 | 6,385866453 | 1,012186866 | 6,46369015 |
| 5 | 55 | 0,154997766 | 0,987914821 | 0,156893856 | 6,373735883 | 1,012233018 | 6,451705907 |
| 4 | 56 | 0,155285132 | 0,987869692 | 0,157191918 | 6,361650211 | 1,012279259 | 6,439766565 |
| 3 | 57 | 0,155572485 | 0,987824479 | 0,157490008 | 6,349609186 | 1,012325591 | 6,427871873 |
| 2 | 58 | 0,155859825 | 0,987779183 | 0,157788125 | 6,33761256 | 1,012372013 | 6,416021583 |
| 1 | 59 | 0,156147152 | 0,987733804 | 0,158086269 | 6,325660084 | 1,012418524 | 6,404215448 |
| 0 | 60 | 0,156434465 | 0,987688341 | 0,15838444 | 6,313751515 | 1,012465126 | 6,392453221 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

81°

| 9° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,156434465 | 0,987688341 | 0,15838444 | 6,313751515 | 1,012465126 | 6,392453221 |
| 59 | 1 | 0,156721765 | 0,987642794 | 0,158682639 | 6,301886607 | 1,012511817 | 6,380734661 |
| 58 | 2 | 0,157009052 | 0,987597164 | 0,158980866 | 6,29006512 | 1,012558599 | 6,369059524 |
| 57 | 3 | 0,157296326 | 0,98755145 | 0,15927912 | 6,278286814 | 1,01260547 | 6,357427571 |
| 56 | 4 | 0,157583586 | 0,987505652 | 0,159577402 | 6,266551451 | 1,012652432 | 6,345838564 |
| 55 | 5 | 0,157870834 | 0,987459771 | 0,159875712 | 6,254858793 | 1,012699483 | 6,334292267 |
| 54 | 6 | 0,158158067 | 0,987413807 | 0,160174049 | 6,243208607 | 1,012746625 | 6,322788444 |
| 53 | 7 | 0,158445288 | 0,987367759 | 0,160472414 | 6,23160066 | 1,012793856 | 6,311326864 |
| 52 | 8 | 0,158732495 | 0,987321627 | 0,160770807 | 6,220034719 | 1,012841178 | 6,299907294 |
| 51 | 9 | 0,159019688 | 0,987275412 | 0,161069228 | 6,208510557 | 1,01288859 | 6,288529505 |
| 50 | 10 | 0,159306868 | 0,987229113 | 0,161367676 | 6,197027944 | 1,012936092 | 6,277193269 |
| 49 | 11 | 0,159594035 | 0,987182731 | 0,161666153 | 6,185586655 | 1,012983685 | 6,265898361 |
| 48 | 12 | 0,159881188 | 0,987136265 | 0,161964658 | 6,174186465 | 1,013031367 | 6,254644555 |
| 47 | 13 | 0,160168327 | 0,987089716 | 0,162263191 | 6,162827151 | 1,01307914 | 6,243431628 |
| 46 | 14 | 0,160455453 | 0,987043083 | 0,162561752 | 6,151508492 | 1,013127003 | 6,232259359 |
| 45 | 15 | 0,160742566 | 0,986996367 | 0,162860342 | 6,140230267 | 1,013174956 | 6,221127529 |
| 44 | 16 | 0,161029664 | 0,986949567 | 0,16315896 | 6,12899226 | 1,013222999 | 6,210035919 |
| 43 | 17 | 0,16131675 | 0,986902683 | 0,163457606 | 6,117794252 | 1,013271133 | 6,198984313 |
| 42 | 18 | 0,161603821 | 0,986855716 | 0,16375628 | 6,106636029 | 1,013319357 | 6,187972495 |
| 41 | 19 | 0,161890879 | 0,986808666 | 0,164054983 | 6,095517378 | 1,013367671 | 6,177000251 |
| 40 | 20 | 0,162177923 | 0,986761532 | 0,164353714 | 6,084438086 | 1,013416076 | 6,166067371 |
| 39 | 21 | 0,162464954 | 0,986714315 | 0,164652474 | 6,073397944 | 1,013464571 | 6,155173644 |
| 38 | 22 | 0,16275197 | 0,986667014 | 0,164951263 | 6,062396741 | 1,013513157 | 6,144318859 |
| 37 | 23 | 0,163038973 | 0,986619629 | 0,16525008 | 6,051434271 | 1,013561833 | 6,133502811 |
| 36 | 24 | 0,163325962 | 0,986572162 | 0,165548926 | 6,040510327 | 1,013610599 | 6,122725293 |
| 35 | 25 | 0,163612938 | 0,98652461 | 0,165847801 | 6,029624705 | 1,013659456 | 6,1119861 |
| 34 | 26 | 0,163899899 | 0,986476975 | 0,166146705 | 6,018777202 | 1,013708404 | 6,101285029 |
| 33 | 27 | 0,164186847 | 0,986429257 | 0,166445638 | 6,007967616 | 1,013757442 | 6,090621879 |
| 32 | 28 | 0,16447378 | 0,986381455 | 0,166744599 | 5,997195747 | 1,01380657 | 6,079996449 |
| 31 | 29 | 0,1647607 | 0,98633357 | 0,16704359 | 5,986461395 | 1,013855789 | 6,069408541 |
| 30 | 30 | 0,165047606 | 0,986285602 | 0,167342609 | 5,975764364 | 1,013905099 | 6,058857957 |
| 29 | 31 | 0,165334498 | 0,986237549 | 0,167641658 | 5,965104458 | 1,013954499 | 6,0483445 |
| 28 | 32 | 0,165621376 | 0,986189414 | 0,167940736 | 5,954481481 | 1,014003989 | 6,037867977 |
| 27 | 33 | 0,165908239 | 0,986141195 | 0,168239843 | 5,94389524 | 1,014053571 | 6,027428193 |
| 26 | 34 | 0,166195089 | 0,986092892 | 0,168538979 | 5,933345543 | 1,014103243 | 6,017024957 |
| 25 | 35 | 0,166481925 | 0,986044506 | 0,168838145 | 5,9228322 | 1,014153006 | 6,006658079 |
| 24 | 36 | 0,166768747 | 0,985996037 | 0,16913734 | 5,912355021 | 1,014202859 | 5,996327368 |
| 23 | 37 | 0,167055554 | 0,985947484 | 0,169436564 | 5,901913819 | 1,014252803 | 5,986032636 |
| 22 | 38 | 0,167342348 | 0,985898848 | 0,169735818 | 5,891508406 | 1,014302838 | 5,975773698 |
| 21 | 39 | 0,167629127 | 0,985850128 | 0,170035102 | 5,881138596 | 1,014352964 | 5,965550368 |
| 20 | 40 | 0,167915892 | 0,985801325 | 0,170334415 | 5,870804207 | 1,014403181 | 5,95536246 |
| 19 | 41 | 0,168202643 | 0,985752439 | 0,170633758 | 5,860505054 | 1,014453488 | 5,945209793 |
| 18 | 42 | 0,16848938 | 0,985703469 | 0,17093313 | 5,850240957 | 1,014503886 | 5,935092186 |
| 17 | 43 | 0,168776102 | 0,985654416 | 0,171232533 | 5,840011734 | 1,014554375 | 5,925009456 |
| 16 | 44 | 0,16906281 | 0,985605279 | 0,171531965 | 5,829817207 | 1,014604955 | 5,914961426 |
| 15 | 45 | 0,169349504 | 0,985556059 | 0,171831427 | 5,819657198 | 1,014655626 | 5,904947917 |
| 14 | 46 | 0,169636183 | 0,985506756 | 0,172130919 | 5,80953153 | 1,014706388 | 5,894968753 |
| 13 | 47 | 0,169922848 | 0,985457369 | 0,172430441 | 5,799440027 | 1,01475724 | 5,885023758 |
| 12 | 48 | 0,170209499 | 0,985407898 | 0,172729993 | 5,789382516 | 1,014808184 | 5,875112758 |
| 11 | 49 | 0,170496135 | 0,985358345 | 0,173029575 | 5,779358822 | 1,014859219 | 5,865235579 |
| 10 | 50 | 0,170782757 | 0,985308708 | 0,173329187 | 5,769368775 | 1,014910344 | 5,85539205 |
| 9 | 51 | 0,171069365 | 0,985258987 | 0,17362883 | 5,759412203 | 1,014961561 | 5,845582 |
| 8 | 52 | 0,171355958 | 0,985209184 | 0,173928502 | 5,749488936 | 1,015012869 | 5,835805259 |
| 7 | 53 | 0,171642536 | 0,985159297 | 0,174228205 | 5,739598807 | 1,015064268 | 5,826061659 |
| 6 | 54 | 0,1719291 | 0,985109326 | 0,174527939 | 5,729741647 | 1,015115758 | 5,816351033 |
| 5 | 55 | 0,17221565 | 0,985059272 | 0,174827703 | 5,71991729 | 1,015167339 | 5,806673214 |
| 4 | 56 | 0,172502185 | 0,985009135 | 0,175127497 | 5,710125572 | 1,015219011 | 5,797028036 |
| 3 | 57 | 0,172788705 | 0,984958915 | 0,175427322 | 5,700366329 | 1,015270774 | 5,787415337 |
| 2 | 58 | 0,17307521 | 0,984908611 | 0,175727178 | 5,690639396 | 1,015322629 | 5,777834953 |
| 1 | 59 | 0,173361701 | 0,984858224 | 0,176027064 | 5,680944614 | 1,015374575 | 5,768286722 |
| 0 | 60 | 0,173648178 | 0,984807753 | 0,176326981 | 5,67128182 | 1,015426612 | 5,758770483 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

80°

| 10° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,173648178 | 0,984807753 | 0,176326981 | 5,67128182 | 1,015426612 | 5,758770483 |
| 59 | 1 | 0,173934639 | 0,984757199 | 0,176626928 | 5,661650855 | 1,01547874 | 5,749286077 |
| 58 | 2 | 0,174221086 | 0,984706562 | 0,176926907 | 5,65205156 | 1,01553096 | 5,739833346 |
| 57 | 3 | 0,174507518 | 0,984655841 | 0,177226916 | 5,642483779 | 1,015583271 | 5,730412131 |
| 56 | 4 | 0,174793936 | 0,984605038 | 0,177526957 | 5,632947353 | 1,015635673 | 5,721022276 |
| 55 | 5 | 0,175080338 | 0,98455415 | 0,177827028 | 5,623442129 | 1,015688167 | 5,711663262 |
| 54 | 6 | 0,175366726 | 0,98450318 | 0,17812713 | 5,613967951 | 1,015740752 | 5,702336026 |
| 53 | 7 | 0,175653099 | 0,984452126 | 0,178427264 | 5,604524666 | 1,015793428 | 5,693039323 |
| 52 | 8 | 0,175939457 | 0,984400989 | 0,178727428 | 5,595112121 | 1,015846196 | 5,683773364 |
| 51 | 9 | 0,1762258 | 0,984349769 | 0,179027624 | 5,585730166 | 1,015899055 | 5,674537998 |
| 50 | 10 | 0,176512129 | 0,984298465 | 0,179327851 | 5,576378649 | 1,015952006 | 5,665333074 |
| 49 | 11 | 0,176798442 | 0,984247078 | 0,179628109 | 5,567057421 | 1,016005048 | 5,656158443 |
| 48 | 12 | 0,17708474 | 0,984195608 | 0,179928399 | 5,557766334 | 1,016058182 | 5,647013956 |
| 47 | 13 | 0,177371024 | 0,984144054 | 0,18022872 | 5,54850524 | 1,016111407 | 5,637899466 |
| 46 | 14 | 0,177657292 | 0,984092418 | 0,180529073 | 5,539273992 | 1,016164724 | 5,628814827 |
| 45 | 15 | 0,177943545 | 0,984040698 | 0,180829457 | 5,530072445 | 1,016218132 | 5,619759893 |
| 44 | 16 | 0,178229784 | 0,983988894 | 0,181129873 | 5,520900455 | 1,016271632 | 5,610734518 |
| 43 | 17 | 0,178516007 | 0,983937008 | 0,181430321 | 5,511757877 | 1,016325224 | 5,60173856 |
| 42 | 18 | 0,178802215 | 0,983885038 | 0,1817308 | 5,502644569 | 1,016378908 | 5,592771876 |
| 41 | 19 | 0,179088408 | 0,983832985 | 0,182031311 | 5,493560389 | 1,016432683 | 5,583834323 |
| 40 | 20 | 0,179374586 | 0,983780849 | 0,182331854 | 5,484505196 | 1,016486549 | 5,574925761 |
| 39 | 21 | 0,179660749 | 0,983728629 | 0,182632429 | 5,475478849 | 1,016540508 | 5,56604605 |
| 38 | 22 | 0,179946896 | 0,983676326 | 0,182933035 | 5,466481211 | 1,016594558 | 5,55719505 |
| 37 | 23 | 0,180233028 | 0,98362394 | 0,183233674 | 5,457512141 | 1,0166487 | 5,548372624 |
| 36 | 24 | 0,180519145 | 0,983571471 | 0,183534345 | 5,448571504 | 1,016702934 | 5,539578634 |
| 35 | 25 | 0,180805247 | 0,983518918 | 0,183835047 | 5,439659163 | 1,016757259 | 5,530812943 |
| 34 | 26 | 0,181091333 | 0,983466283 | 0,184135782 | 5,430774982 | 1,016811677 | 5,522075416 |
| 33 | 27 | 0,181377404 | 0,983413564 | 0,18443655 | 5,421918826 | 1,016866186 | 5,513365919 |
| 32 | 28 | 0,18166346 | 0,983360761 | 0,184737349 | 5,413090561 | 1,016920788 | 5,504684316 |
| 31 | 29 | 0,181949501 | 0,983307876 | 0,185038181 | 5,404290055 | 1,016975481 | 5,496030476 |
| 30 | 30 | 0,182235525 | 0,983254908 | 0,185339045 | 5,395517174 | 1,017030266 | 5,487404266 |
| 29 | 31 | 0,182521535 | 0,983201856 | 0,185639942 | 5,386771789 | 1,017085143 | 5,478805555 |
| 28 | 32 | 0,182807529 | 0,983148721 | 0,185940871 | 5,378053768 | 1,017140112 | 5,470234211 |
| 27 | 33 | 0,183093508 | 0,983095503 | 0,186241832 | 5,369362981 | 1,017195173 | 5,461690107 |
| 26 | 34 | 0,183379471 | 0,983042201 | 0,186542827 | 5,3606993 | 1,017250326 | 5,453173112 |
| 25 | 35 | 0,183665419 | 0,982988817 | 0,186843854 | 5,352062597 | 1,017305571 | 5,444683098 |
| 24 | 36 | 0,183951351 | 0,982935349 | 0,187144913 | 5,343452744 | 1,017360909 | 5,436219939 |
| 23 | 37 | 0,184237267 | 0,982881798 | 0,187446006 | 5,334869615 | 1,017416338 | 5,427783508 |
| 22 | 38 | 0,184523168 | 0,982828164 | 0,187747131 | 5,326313084 | 1,01747186 | 5,419373678 |
| 21 | 39 | 0,184809053 | 0,982774447 | 0,188048289 | 5,317783026 | 1,017527473 | 5,410990326 |
| 20 | 40 | 0,185094923 | 0,982720647 | 0,18834948 | 5,309279318 | 1,017583179 | 5,402633328 |
| 19 | 41 | 0,185380777 | 0,982666763 | 0,188650704 | 5,300801835 | 1,017638977 | 5,394302559 |
| 18 | 42 | 0,185666615 | 0,982612797 | 0,188951962 | 5,292350456 | 1,017694868 | 5,385997897 |
| 17 | 43 | 0,185952438 | 0,982558747 | 0,189253252 | 5,283925058 | 1,01775085 | 5,377719221 |
| 16 | 44 | 0,186238245 | 0,982504614 | 0,189554575 | 5,275525521 | 1,017806925 | 5,369466409 |
| 15 | 45 | 0,186524036 | 0,982450398 | 0,189855932 | 5,267151723 | 1,017863092 | 5,361239342 |
| 14 | 46 | 0,186809811 | 0,982396099 | 0,190157322 | 5,258803547 | 1,017919352 | 5,353037899 |
| 13 | 47 | 0,187095571 | 0,982341716 | 0,190458745 | 5,250480872 | 1,017975704 | 5,344861962 |
| 12 | 48 | 0,187381315 | 0,982287251 | 0,190760202 | 5,242183581 | 1,018032148 | 5,336711412 |
| 11 | 49 | 0,187667042 | 0,982232702 | 0,191061692 | 5,233911556 | 1,018088685 | 5,328586133 |
| 10 | 50 | 0,187952754 | 0,98217807 | 0,191363216 | 5,225664682 | 1,018145314 | 5,320486008 |
| 9 | 51 | 0,18823845 | 0,982123356 | 0,191664773 | 5,21744284 | 1,018202036 | 5,312410921 |
| 8 | 52 | 0,188524131 | 0,982068558 | 0,191966364 | 5,209245918 | 1,01825885 | 5,304360756 |
| 7 | 53 | 0,188809795 | 0,982013677 | 0,192267989 | 5,2010738 | 1,018315756 | 5,2963354 |
| 6 | 54 | 0,189095443 | 0,981958713 | 0,192569647 | 5,192926372 | 1,018372755 | 5,288334738 |
| 5 | 55 | 0,189381075 | 0,981903666 | 0,192871339 | 5,184803521 | 1,018429847 | 5,280358658 |
| 4 | 56 | 0,189666691 | 0,981848535 | 0,193173065 | 5,176705135 | 1,018487031 | 5,272407046 |
| 3 | 57 | 0,189952292 | 0,981793322 | 0,193474825 | 5,168631103 | 1,018544308 | 5,264479791 |
| 2 | 58 | 0,190237876 | 0,981738025 | 0,193776619 | 5,160581312 | 1,018601678 | 5,256576783 |
| 1 | 59 | 0,190523444 | 0,981682646 | 0,194078447 | 5,152555653 | 1,01865914 | 5,248697911 |
| 0 | 60 | 0,190808995 | 0,981627183 | 0,194380309 | 5,144554016 | 1,018716695 | 5,240843064 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

79°

| 11° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,190808995 | 0,981627183 | 0,194380309 | 5,144554016 | 1,018716695 | 5,240843064 |
| 59 | 1 | 0,191094531 | 0,981571638 | 0,194682205 | 5,136576292 | 1,018774343 | 5,233012135 |
| 58 | 2 | 0,191380051 | 0,981516009 | 0,194984136 | 5,128622373 | 1,018832083 | 5,225205014 |
| 57 | 3 | 0,191665554 | 0,981460297 | 0,1952861 | 5,12069215 | 1,018889916 | 5,217421594 |
| 56 | 4 | 0,191951041 | 0,981404503 | 0,195588099 | 5,112785517 | 1,018947842 | 5,209661769 |
| 55 | 5 | 0,192236512 | 0,981348625 | 0,195890132 | 5,104902368 | 1,019005861 | 5,20192543 |
| 54 | 6 | 0,192521967 | 0,981292664 | 0,1961922 | 5,097042596 | 1,019063972 | 5,194212474 |
| 53 | 7 | 0,192807405 | 0,98123662 | 0,196494302 | 5,089206096 | 1,019122177 | 5,186522794 |
| 52 | 8 | 0,193092827 | 0,981180493 | 0,196796439 | 5,081392764 | 1,019180474 | 5,178856286 |
| 51 | 9 | 0,193378233 | 0,981124283 | 0,19709861 | 5,073602497 | 1,019238864 | 5,171212846 |
| 50 | 10 | 0,193663622 | 0,98106799 | 0,197400816 | 5,06583519 | 1,019297347 | 5,163592371 |
| 49 | 11 | 0,193948995 | 0,981011614 | 0,197703057 | 5,058090741 | 1,019355923 | 5,155994758 |
| 48 | 12 | 0,194234351 | 0,980955155 | 0,198005332 | 5,050369047 | 1,019414593 | 5,148419905 |
| 47 | 13 | 0,194519691 | 0,980898613 | 0,198307642 | 5,042670009 | 1,019473355 | 5,140867711 |
| 46 | 14 | 0,194805015 | 0,980841988 | 0,198609987 | 5,034993524 | 1,01953221 | 5,133338074 |
| 45 | 15 | 0,195090322 | 0,98078528 | 0,198912367 | 5,027339492 | 1,019591158 | 5,125830895 |
| 44 | 16 | 0,195375613 | 0,980728489 | 0,199214782 | 5,019707814 | 1,0196502 | 5,118346075 |
| 43 | 17 | 0,195660887 | 0,980671615 | 0,199517233 | 5,012098391 | 1,019709334 | 5,110883513 |
| 42 | 18 | 0,195946144 | 0,980614659 | 0,199819718 | 5,004511124 | 1,019768562 | 5,103443111 |
| 41 | 19 | 0,196231385 | 0,980557619 | 0,200122238 | 4,996945915 | 1,019827883 | 5,096024772 |
| 40 | 20 | 0,19651661 | 0,980500496 | 0,200424794 | 4,989402667 | 1,019887297 | 5,088628398 |
| 39 | 21 | 0,196801817 | 0,98044329 | 0,200727385 | 4,981881284 | 1,019946804 | 5,081253893 |
| 38 | 22 | 0,197087008 | 0,980386001 | 0,201030011 | 4,974381668 | 1,020006404 | 5,07390116 |
| 37 | 23 | 0,197372183 | 0,980328629 | 0,201332672 | 4,966903724 | 1,020066098 | 5,066570103 |
| 36 | 24 | 0,19765734 | 0,980271175 | 0,201635369 | 4,959447358 | 1,020125885 | 5,059260628 |
| 35 | 25 | 0,197942481 | 0,980213637 | 0,201938102 | 4,952012475 | 1,020185766 | 5,05197264 |
| 34 | 26 | 0,198227606 | 0,980156016 | 0,20224087 | 4,944598981 | 1,02024574 | 5,044706045 |
| 33 | 27 | 0,198512713 | 0,980098313 | 0,202543674 | 4,937206782 | 1,020305807 | 5,03746075 |
| 32 | 28 | 0,198797804 | 0,980040526 | 0,202846513 | 4,929835785 | 1,020365968 | 5,030236661 |
| 31 | 29 | 0,199082877 | 0,979982657 | 0,203149388 | 4,922485899 | 1,020426222 | 5,023033687 |
| 30 | 30 | 0,199367934 | 0,979924705 | 0,203452299 | 4,915157031 | 1,020486569 | 5,015851736 |
| 29 | 31 | 0,199652975 | 0,979866669 | 0,203755246 | 4,90784909 | 1,02054701 | 5,008690716 |
| 28 | 32 | 0,199937998 | 0,979808551 | 0,204058229 | 4,900561986 | 1,020607545 | 5,001550537 |
| 27 | 33 | 0,200223004 | 0,97975035 | 0,204361248 | 4,893295628 | 1,020668173 | 4,994431109 |
| 26 | 34 | 0,200507993 | 0,979692066 | 0,204664302 | 4,886049926 | 1,020728895 | 4,987332341 |
| 25 | 35 | 0,200792966 | 0,979633699 | 0,204967393 | 4,878824792 | 1,02078971 | 4,980254145 |
| 24 | 36 | 0,201077921 | 0,97957525 | 0,20527052 | 4,871620136 | 1,020850619 | 4,973196432 |
| 23 | 37 | 0,20136286 | 0,979516717 | 0,205573683 | 4,864435871 | 1,020911622 | 4,966159114 |
| 22 | 38 | 0,201647781 | 0,979458101 | 0,205876883 | 4,857271909 | 1,020972718 | 4,959142103 |
| 21 | 39 | 0,201932685 | 0,979399403 | 0,206180119 | 4,850128162 | 1,021033908 | 4,952145312 |
| 20 | 40 | 0,202217572 | 0,979340622 | 0,206483391 | 4,843004544 | 1,021095192 | 4,945168654 |
| 19 | 41 | 0,202502442 | 0,979281758 | 0,206786699 | 4,83590097 | 1,021156569 | 4,938212044 |
| 18 | 42 | 0,202787295 | 0,979222811 | 0,207090044 | 4,828817352 | 1,021218041 | 4,931275395 |
| 17 | 43 | 0,203072131 | 0,979163781 | 0,207393426 | 4,821753607 | 1,021279606 | 4,924358623 |
| 16 | 44 | 0,20335695 | 0,979104668 | 0,207696844 | 4,814709649 | 1,021341265 | 4,917461642 |
| 15 | 45 | 0,203641751 | 0,979045472 | 0,208000299 | 4,807685394 | 1,021403018 | 4,910584369 |
| 14 | 46 | 0,203926535 | 0,978986194 | 0,208303791 | 4,800680758 | 1,021464864 | 4,90372672 |
| 13 | 47 | 0,204211302 | 0,978926833 | 0,208607319 | 4,793695659 | 1,021526805 | 4,896888611 |
| 12 | 48 | 0,204496052 | 0,978867389 | 0,208910884 | 4,786730012 | 1,02158884 | 4,89006996 |
| 11 | 49 | 0,204780784 | 0,978807862 | 0,209214486 | 4,779783737 | 1,021650968 | 4,883270684 |
| 10 | 50 | 0,205065499 | 0,978748252 | 0,209518126 | 4,772856751 | 1,021713191 | 4,876490702 |
| 9 | 51 | 0,205350197 | 0,97868856 | 0,209821802 | 4,765948973 | 1,021775508 | 4,869729932 |
| 8 | 52 | 0,205634877 | 0,978628784 | 0,210125515 | 4,759060322 | 1,021837919 | 4,862988294 |
| 7 | 53 | 0,20591954 | 0,978568926 | 0,210429265 | 4,752190716 | 1,021900424 | 4,856265706 |
| 6 | 54 | 0,206204185 | 0,978508985 | 0,210733053 | 4,745340077 | 1,021963023 | 4,849562089 |
| 5 | 55 | 0,206488813 | 0,978448961 | 0,211036877 | 4,738508325 | 1,022025716 | 4,842877363 |
| 4 | 56 | 0,206773424 | 0,978388855 | 0,211340739 | 4,731695381 | 1,022088503 | 4,836211448 |
| 3 | 57 | 0,207058017 | 0,978328665 | 0,211644639 | 4,724901165 | 1,022151385 | 4,829564268 |
| 2 | 58 | 0,207342592 | 0,978268393 | 0,211948576 | 4,718125599 | 1,02221436 | 4,822935742 |
| 1 | 59 | 0,20762715 | 0,978208038 | 0,21225255 | 4,711368607 | 1,022277431 | 4,816325793 |
| 0 | 60 | 0,207911691 | 0,978147601 | 0,212556562 | 4,704630109 | 1,022340595 | 4,809734345 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

78°

| 12° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,207911691 | 0,978147601 | 0,212556562 | 4,704630109 | 1,022340595 | 4,809734345 |
| 59 | 1 | 0,208196214 | 0,97808708 | 0,212860611 | 4,697910031 | 1,022403854 | 4,803161319 |
| 58 | 2 | 0,208480719 | 0,978026477 | 0,213164698 | 4,691208293 | 1,022467207 | 4,796606639 |
| 57 | 3 | 0,208765206 | 0,977965791 | 0,213468823 | 4,684524822 | 1,022530654 | 4,79007023 |
| 56 | 4 | 0,209049676 | 0,977905022 | 0,213772986 | 4,677859541 | 1,022594196 | 4,783552015 |
| 55 | 5 | 0,209334128 | 0,977844171 | 0,214077186 | 4,671212374 | 1,022657832 | 4,777051919 |
| 54 | 6 | 0,209618563 | 0,977783237 | 0,214381424 | 4,664583247 | 1,022721563 | 4,770569868 |
| 53 | 7 | 0,20990298 | 0,97772222 | 0,2146857 | 4,657972085 | 1,022785388 | 4,764105787 |
| 52 | 8 | 0,210187379 | 0,97766112 | 0,214990015 | 4,651378815 | 1,022849308 | 4,757659601 |
| 51 | 9 | 0,21047176 | 0,977599938 | 0,215294367 | 4,644803363 | 1,022913322 | 4,751231238 |
| 50 | 10 | 0,210756123 | 0,977538673 | 0,215598757 | 4,638245655 | 1,022977431 | 4,744820624 |
| 49 | 11 | 0,211040469 | 0,977477325 | 0,215903186 | 4,631705618 | 1,023041634 | 4,738427686 |
| 48 | 12 | 0,211324796 | 0,977415894 | 0,216207653 | 4,625183181 | 1,023105933 | 4,732052352 |
| 47 | 13 | 0,211609106 | 0,977354381 | 0,216512158 | 4,618678271 | 1,023170325 | 4,725694549 |
| 46 | 14 | 0,211893398 | 0,977292785 | 0,216816702 | 4,612190816 | 1,023234813 | 4,719354206 |
| 45 | 15 | 0,212177672 | 0,977231106 | 0,217121284 | 4,605720746 | 1,023299395 | 4,713031253 |
| 44 | 16 | 0,212461928 | 0,977169345 | 0,217425904 | 4,599267989 | 1,023364072 | 4,706725617 |
| 43 | 17 | 0,212746166 | 0,977107501 | 0,217730563 | 4,592832475 | 1,023428844 | 4,700437229 |
| 42 | 18 | 0,213030386 | 0,977045574 | 0,21803526 | 4,586414133 | 1,02349371 | 4,694166018 |
| 41 | 19 | 0,213314588 | 0,976983565 | 0,218339997 | 4,580012895 | 1,023558672 | 4,687911914 |
| 40 | 20 | 0,213598772 | 0,976921473 | 0,218644772 | 4,57362869 | 1,023623728 | 4,68167485 |
| 39 | 21 | 0,213882938 | 0,976859298 | 0,218949585 | 4,56726145 | 1,023688879 | 4,675454754 |
| 38 | 22 | 0,214167086 | 0,976797041 | 0,219254438 | 4,560911106 | 1,023754125 | 4,669251559 |
| 37 | 23 | 0,214451216 | 0,976734701 | 0,219559329 | 4,55457759 | 1,023819466 | 4,663065197 |
| 36 | 24 | 0,214735327 | 0,976672278 | 0,219864259 | 4,548260834 | 1,023884902 | 4,656895599 |
| 35 | 25 | 0,215019421 | 0,976609773 | 0,220169229 | 4,541960771 | 1,023950433 | 4,650742698 |
| 34 | 26 | 0,215303496 | 0,976547185 | 0,220474237 | 4,535677333 | 1,024016059 | 4,644606428 |
| 33 | 27 | 0,215587553 | 0,976484515 | 0,220779285 | 4,529410453 | 1,02408178 | 4,63848672 |
| 32 | 28 | 0,215871591 | 0,976421761 | 0,221084371 | 4,523160066 | 1,024147596 | 4,63238351 |
| 31 | 29 | 0,216155612 | 0,976358926 | 0,221389497 | 4,516926105 | 1,024213508 | 4,62629673 |
| 30 | 30 | 0,216439614 | 0,976296007 | 0,221694663 | 4,510708504 | 1,024279514 | 4,620226315 |
| 29 | 31 | 0,216723598 | 0,976233006 | 0,221999867 | 4,504507198 | 1,024345616 | 4,6141722 |
| 28 | 32 | 0,217007563 | 0,976169922 | 0,222305111 | 4,498322122 | 1,024411813 | 4,60813432 |
| 27 | 33 | 0,21729151 | 0,976106756 | 0,222610395 | 4,492153211 | 1,024478105 | 4,60211261 |
| 26 | 34 | 0,217575439 | 0,976043507 | 0,222915718 | 4,486000401 | 1,024544493 | 4,596107005 |
| 25 | 35 | 0,217859349 | 0,975980176 | 0,223221081 | 4,479863629 | 1,024610975 | 4,590117442 |
| 24 | 36 | 0,218143241 | 0,975916762 | 0,223526483 | 4,473742829 | 1,024677553 | 4,584143857 |
| 23 | 37 | 0,218427115 | 0,975853265 | 0,223831925 | 4,46763794 | 1,024744227 | 4,578186187 |
| 22 | 38 | 0,21871097 | 0,975789686 | 0,224137407 | 4,461548897 | 1,024810996 | 4,572244368 |
| 21 | 39 | 0,218994806 | 0,975726024 | 0,224442928 | 4,455475639 | 1,02487786 | 4,566318339 |
| 20 | 40 | 0,219278624 | 0,97566228 | 0,22474849 | 4,449418104 | 1,02494482 | 4,560408037 |
| 19 | 41 | 0,219562424 | 0,975598453 | 0,225054091 | 4,443376228 | 1,025011875 | 4,554513399 |
| 18 | 42 | 0,219846204 | 0,975534544 | 0,225359733 | 4,43734995 | 1,025079026 | 4,548634364 |
| 17 | 43 | 0,220129967 | 0,975470552 | 0,225665415 | 4,43133921 | 1,025146272 | 4,542770872 |
| 16 | 44 | 0,22041371 | 0,975406478 | 0,225971136 | 4,425343945 | 1,025213614 | 4,53692286 |
| 15 | 45 | 0,220697435 | 0,975342321 | 0,226276898 | 4,419364096 | 1,025281052 | 4,531090268 |
| 14 | 46 | 0,220981141 | 0,975278081 | 0,2265827 | 4,413399602 | 1,025348585 | 4,525273036 |
| 13 | 47 | 0,221264829 | 0,975213759 | 0,226888543 | 4,407450403 | 1,025416214 | 4,519471104 |
| 12 | 48 | 0,221548498 | 0,975149354 | 0,227194426 | 4,401516439 | 1,025483938 | 4,513684411 |
| 11 | 49 | 0,221832148 | 0,975084867 | 0,227500349 | 4,395597651 | 1,025551758 | 4,507912899 |
| 10 | 50 | 0,222115779 | 0,975020298 | 0,227806313 | 4,389693979 | 1,025619674 | 4,502156508 |
| 9 | 51 | 0,222399391 | 0,974955645 | 0,228112317 | 4,383805364 | 1,025687686 | 4,49641518 |
| 8 | 52 | 0,222682985 | 0,974890911 | 0,228418362 | 4,377931749 | 1,025755794 | 4,490688856 |
| 7 | 53 | 0,222966656 | 0,974826094 | 0,228724448 | 4,372073075 | 1,025823997 | 4,484977478 |
| 6 | 54 | 0,223250116 | 0,974761194 | 0,229030574 | 4,366229284 | 1,025892296 | 4,479280987 |
| 5 | 55 | 0,223533653 | 0,974696212 | 0,229336741 | 4,360400318 | 1,025960692 | 4,473599327 |
| 4 | 56 | 0,223817171 | 0,974631148 | 0,229642949 | 4,354586121 | 1,026029183 | 4,467932439 |
| 3 | 57 | 0,224100671 | 0,974566001 | 0,229949198 | 4,348786634 | 1,02609777 | 4,462280268 |
| 2 | 58 | 0,224384151 | 0,974500771 | 0,230255488 | 4,343001802 | 1,026166453 | 4,456642755 |
| 1 | 59 | 0,224667612 | 0,974435459 | 0,230561819 | 4,337231567 | 1,026235233 | 4,451019846 |
| 0 | 60 | 0,224951054 | 0,974370065 | 0,230868191 | 4,331475874 | 1,026304108 | 4,445411483 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

77°

| 13° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,224951054 | 0,974370065 | 0,230868191 | 4,331475874 | 1,026304108 | 4,445411483 |
| 59 | 1 | 0,225234478 | 0,974304588 | 0,231174604 | 4,325734667 | 1,026373079 | 4,43981761 |
| 58 | 2 | 0,225517882 | 0,974239029 | 0,231481059 | 4,32000789 | 1,026442147 | 4,434238173 |
| 57 | 3 | 0,225801267 | 0,974173387 | 0,231787554 | 4,314295489 | 1,02651131 | 4,428673115 |
| 56 | 4 | 0,226084633 | 0,974107663 | 0,232094091 | 4,308597407 | 1,02658057 | 4,423122383 |
| 55 | 5 | 0,22636798 | 0,974041856 | 0,23240067 | 4,30291359 | 1,026649926 | 4,41758592 |
| 54 | 6 | 0,226651307 | 0,973975967 | 0,23270729 | 4,297243984 | 1,026719379 | 4,412063673 |
| 53 | 7 | 0,226934616 | 0,973909996 | 0,233013951 | 4,291588534 | 1,026788927 | 4,406555588 |
| 52 | 8 | 0,227217905 | 0,973843942 | 0,233320654 | 4,285947187 | 1,026858572 | 4,40106161 |
| 51 | 9 | 0,227501175 | 0,973777806 | 0,233627398 | 4,280319889 | 1,026928314 | 4,395581685 |
| 50 | 10 | 0,227784426 | 0,973711587 | 0,233934185 | 4,274706587 | 1,026998151 | 4,390115762 |
| 49 | 11 | 0,228067658 | 0,973645286 | 0,234241013 | 4,269107227 | 1,027068085 | 4,384663786 |
| 48 | 12 | 0,22835087 | 0,973578903 | 0,234547882 | 4,263521757 | 1,027138116 | 4,379225704 |
| 47 | 13 | 0,228634063 | 0,973512437 | 0,234854794 | 4,257950124 | 1,027208243 | 4,373801465 |
| 46 | 14 | 0,228917237 | 0,973445889 | 0,235161748 | 4,252392275 | 1,027278466 | 4,368391015 |
| 45 | 15 | 0,229200391 | 0,973379258 | 0,235468743 | 4,24684816 | 1,027348787 | 4,362994304 |
| 44 | 16 | 0,229483526 | 0,973312546 | 0,235775781 | 4,241317726 | 1,027419203 | 4,357611278 |
| 43 | 17 | 0,229766641 | 0,97324575 | 0,236082861 | 4,235800921 | 1,027489716 | 4,352241887 |
| 42 | 18 | 0,230049737 | 0,973178873 | 0,236389983 | 4,230297694 | 1,027560326 | 4,346886079 |
| 41 | 19 | 0,230332814 | 0,973111913 | 0,236697147 | 4,224807995 | 1,027631033 | 4,341543803 |
| 40 | 20 | 0,230615871 | 0,973044871 | 0,237004354 | 4,219331772 | 1,027701836 | 4,336215009 |
| 39 | 21 | 0,230898908 | 0,972977746 | 0,237311603 | 4,213868975 | 1,027772736 | 4,330899646 |
| 38 | 22 | 0,231181926 | 0,972910539 | 0,237618894 | 4,208419554 | 1,027843733 | 4,325597664 |
| 37 | 23 | 0,231464925 | 0,97284325 | 0,237926228 | 4,202983459 | 1,027914826 | 4,320309012 |
| 36 | 24 | 0,231747903 | 0,972775878 | 0,238233604 | 4,19756064 | 1,027986017 | 4,315033642 |
| 35 | 25 | 0,232030863 | 0,972708424 | 0,238541023 | 4,192151048 | 1,028057304 | 4,309771503 |
| 34 | 26 | 0,232313802 | 0,972640888 | 0,238848485 | 4,186754633 | 1,028128688 | 4,304522547 |
| 33 | 27 | 0,232596722 | 0,97257327 | 0,239155989 | 4,181371346 | 1,028200169 | 4,299286724 |
| 32 | 28 | 0,232879622 | 0,972505569 | 0,239463536 | 4,176001139 | 1,028271747 | 4,294063986 |
| 31 | 29 | 0,233162503 | 0,972437786 | 0,239771126 | 4,170643963 | 1,028343422 | 4,288854284 |
| 30 | 30 | 0,233445364 | 0,97236992 | 0,240078759 | 4,16529977 | 1,028415194 | 4,28365757 |
| 29 | 31 | 0,233728205 | 0,972301973 | 0,240386435 | 4,159968512 | 1,028487063 | 4,278473795 |
| 28 | 32 | 0,234011026 | 0,972233943 | 0,240694154 | 4,15465014 | 1,028559029 | 4,273302913 |
| 27 | 33 | 0,234293828 | 0,972165831 | 0,241001916 | 4,149344608 | 1,028631092 | 4,268144875 |
| 26 | 34 | 0,234576609 | 0,972097636 | 0,241309721 | 4,144051868 | 1,028703252 | 4,262999635 |
| 25 | 35 | 0,234859371 | 0,97202936 | 0,241617569 | 4,138771873 | 1,02877551 | 4,257867144 |
| 24 | 36 | 0,235142113 | 0,971961001 | 0,241925461 | 4,133504576 | 1,028847865 | 4,252747357 |
| 23 | 37 | 0,235424835 | 0,971892559 | 0,242233396 | 4,128249931 | 1,028920317 | 4,247640226 |
| 22 | 38 | 0,235707537 | 0,971824036 | 0,242541374 | 4,12300789 | 1,028992866 | 4,242545706 |
| 21 | 39 | 0,235990219 | 0,97175543 | 0,242849396 | 4,117778409 | 1,029065513 | 4,237463749 |
| 20 | 40 | 0,236272882 | 0,971686742 | 0,243157461 | 4,11256144 | 1,029138257 | 4,23239431 |
| 19 | 41 | 0,236555524 | 0,971617972 | 0,24346557 | 4,107356939 | 1,029211098 | 4,227337344 |
| 18 | 42 | 0,236838146 | 0,97154912 | 0,243773723 | 4,102164859 | 1,029284037 | 4,222292805 |
| 17 | 43 | 0,237120748 | 0,971480185 | 0,244081919 | 4,096985155 | 1,029357073 | 4,217260647 |
| 16 | 44 | 0,23740333 | 0,971411169 | 0,244390159 | 4,091817783 | 1,029430206 | 4,212240825 |
| 15 | 45 | 0,237685892 | 0,97134207 | 0,244698443 | 4,086662697 | 1,029503438 | 4,207233295 |
| 14 | 46 | 0,237968434 | 0,971272889 | 0,245006771 | 4,081519853 | 1,029576766 | 4,202238012 |
| 13 | 47 | 0,238250956 | 0,971203625 | 0,245315143 | 4,076389206 | 1,029650193 | 4,197254932 |
| 12 | 48 | 0,238533458 | 0,97113428 | 0,245623558 | 4,071270713 | 1,029723717 | 4,19228401 |
| 11 | 49 | 0,238815939 | 0,971064852 | 0,245932018 | 4,066164329 | 1,029797338 | 4,187325202 |
| 10 | 50 | 0,2390984 | 0,970995342 | 0,246240522 | 4,06107001 | 1,029871057 | 4,182378465 |
| 9 | 51 | 0,239380841 | 0,97092575 | 0,24654907 | 4,055987713 | 1,029944874 | 4,177443755 |
| 8 | 52 | 0,239663262 | 0,970856076 | 0,246857663 | 4,050917394 | 1,030018789 | 4,172521028 |
| 7 | 53 | 0,239945662 | 0,97078632 | 0,2471663 | 4,045859011 | 1,030092801 | 4,167610242 |
| 6 | 54 | 0,240228042 | 0,970716482 | 0,247474981 | 4,04081252 | 1,030166912 | 4,162711354 |
| 5 | 55 | 0,240510402 | 0,970646561 | 0,247783706 | 4,035777878 | 1,03024112 | 4,157824321 |
| 4 | 56 | 0,240792742 | 0,970576558 | 0,248092476 | 4,030755044 | 1,030315426 | 4,152949099 |
| 3 | 57 | 0,241075061 | 0,970506473 | 0,248401291 | 4,025743974 | 1,03038983 | 4,148085648 |
| 2 | 58 | 0,24135736 | 0,970436307 | 0,24871015 | 4,020744627 | 1,030464332 | 4,143233925 |
| 1 | 59 | 0,241639638 | 0,970366057 | 0,249019054 | 4,015756961 | 1,030538931 | 4,138393888 |
| 0 | 60 | 0,241921896 | 0,970295726 | 0,249328003 | 4,010780934 | 1,030613629 | 4,133565494 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

76°

| 14° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,241921896 | 0,970295726 | 0,249328003 | 4,010780934 | 1,030613629 | 4,133565494 |
| 59 | 1 | 0,242204133 | 0,970225313 | 0,249636996 | 4,005816504 | 1,030688425 | 4,128748704 |
| 58 | 2 | 0,24248635 | 0,970154818 | 0,249946035 | 4,00086363 | 1,030763319 | 4,123943475 |
| 57 | 3 | 0,242768546 | 0,97008424 | 0,250255118 | 3,995922271 | 1,030838311 | 4,119149766 |
| 56 | 4 | 0,243050722 | 0,970013581 | 0,250564247 | 3,990992386 | 1,030913402 | 4,114367536 |
| 55 | 5 | 0,243332877 | 0,969942839 | 0,25087342 | 3,986073934 | 1,03098859 | 4,109596745 |
| 54 | 6 | 0,243615012 | 0,969872015 | 0,251182638 | 3,981166875 | 1,031063877 | 4,104837352 |
| 53 | 7 | 0,243897126 | 0,96980111 | 0,251491902 | 3,976271169 | 1,031139262 | 4,100089317 |
| 52 | 8 | 0,244179219 | 0,969730122 | 0,251801211 | 3,971386774 | 1,031214745 | 4,095352599 |
| 51 | 9 | 0,244461292 | 0,969659052 | 0,252110566 | 3,966513652 | 1,031290326 | 4,090627159 |
| 50 | 10 | 0,244743344 | 0,9695879 | 0,252419965 | 3,961651762 | 1,031366006 | 4,085912956 |
| 49 | 11 | 0,245025375 | 0,969516666 | 0,25272941 | 3,956801065 | 1,031441785 | 4,081209952 |
| 48 | 12 | 0,245307386 | 0,96944535 | 0,253038901 | 3,951961521 | 1,031517661 | 4,076518106 |
| 47 | 13 | 0,245589376 | 0,969373952 | 0,253348437 | 3,947133092 | 1,031593636 | 4,071837379 |
| 46 | 14 | 0,245871345 | 0,969302472 | 0,253658019 | 3,942315737 | 1,03166971 | 4,067167733 |
| 45 | 15 | 0,246153293 | 0,96923091 | 0,253967646 | 3,937509419 | 1,031745882 | 4,062509129 |
| 44 | 16 | 0,24643522 | 0,969159266 | 0,25427732 | 3,932714098 | 1,031822153 | 4,057861527 |
| 43 | 17 | 0,246717127 | 0,96908754 | 0,254587039 | 3,927929736 | 1,031898522 | 4,05322489 |
| 42 | 18 | 0,246999013 | 0,969015731 | 0,254896804 | 3,923156294 | 1,03197499 | 4,048599179 |
| 41 | 19 | 0,247280878 | 0,968943841 | 0,255206615 | 3,918393735 | 1,032051557 | 4,043984355 |
| 40 | 20 | 0,247562721 | 0,968871869 | 0,255516472 | 3,913642021 | 1,032128222 | 4,039380382 |
| 39 | 21 | 0,247844544 | 0,968799815 | 0,255826374 | 3,908901113 | 1,032204986 | 4,03478722 |
| 38 | 22 | 0,248126346 | 0,968727679 | 0,256136324 | 3,904170975 | 1,032281849 | 4,030204833 |
| 37 | 23 | 0,248408127 | 0,968655461 | 0,256446319 | 3,899451568 | 1,032358811 | 4,025633183 |
| 36 | 24 | 0,248689887 | 0,968583161 | 0,25675636 | 3,894742855 | 1,032435871 | 4,021072233 |
| 35 | 25 | 0,248971626 | 0,968510779 | 0,257066448 | 3,8900448 | 1,032513031 | 4,016521946 |
| 34 | 26 | 0,249253344 | 0,968438315 | 0,257376582 | 3,885357365 | 1,032590289 | 4,011982284 |
| 33 | 27 | 0,249535041 | 0,968365769 | 0,257686763 | 3,880680513 | 1,032667646 | 4,007453212 |
| 32 | 28 | 0,249816716 | 0,968293142 | 0,25799699 | 3,876014209 | 1,032745103 | 4,002934692 |
| 31 | 29 | 0,250098371 | 0,968220432 | 0,258307264 | 3,871358415 | 1,032822658 | 3,998426687 |
| 30 | 30 | 0,250380004 | 0,96814764 | 0,258617584 | 3,866713095 | 1,032900312 | 3,993929163 |
| 29 | 31 | 0,250661616 | 0,968074767 | 0,258927951 | 3,862078213 | 1,032978066 | 3,989442082 |
| 28 | 32 | 0,250943207 | 0,968001811 | 0,259238365 | 3,857453734 | 1,033055918 | 3,984965409 |
| 27 | 33 | 0,251224777 | 0,967928774 | 0,259548826 | 3,852839622 | 1,033133387 | 3,980499108 |
| 26 | 34 | 0,251506325 | 0,967855655 | 0,259859333 | 3,84823584 | 1,033211921 | 3,976043143 |
| 25 | 35 | 0,251787852 | 0,967782454 | 0,260169888 | 3,843642353 | 1,033290071 | 3,97159748 |
| 24 | 36 | 0,252069358 | 0,96770917 | 0,260480489 | 3,839059127 | 1,03336832 | 3,967162082 |
| 23 | 37 | 0,252350843 | 0,967635806 | 0,260791138 | 3,834486126 | 1,033446669 | 3,962736914 |
| 22 | 38 | 0,252632306 | 0,967562359 | 0,261101834 | 3,829923315 | 1,033525117 | 3,958321943 |
| 21 | 39 | 0,252913748 | 0,96748883 | 0,261412576 | 3,82537066 | 1,033603664 | 3,953917132 |
| 20 | 40 | 0,253195168 | 0,967415219 | 0,261723367 | 3,820828125 | 1,033682311 | 3,949522447 |
| 19 | 41 | 0,253476567 | 0,967341527 | 0,262034204 | 3,816295677 | 1,033761058 | 3,945137855 |
| 18 | 42 | 0,253757945 | 0,967267753 | 0,262345089 | 3,81177328 | 1,033839903 | 3,940763319 |
| 17 | 43 | 0,254039301 | 0,967193897 | 0,262656021 | 3,807260901 | 1,033918849 | 3,936398807 |
| 16 | 44 | 0,254320635 | 0,967119959 | 0,262967001 | 3,802758506 | 1,033997893 | 3,932044285 |
| 15 | 45 | 0,254601948 | 0,967045939 | 0,263278028 | 3,798266061 | 1,034077038 | 3,927699717 |
| 14 | 46 | 0,25488324 | 0,966971837 | 0,263589103 | 3,793783532 | 1,034156282 | 3,923365072 |
| 13 | 47 | 0,25516451 | 0,966897654 | 0,263900226 | 3,789310886 | 1,034235626 | 3,919040315 |
| 12 | 48 | 0,255445758 | 0,966823389 | 0,264211397 | 3,784848088 | 1,034315069 | 3,914725412 |
| 11 | 49 | 0,255726985 | 0,966749042 | 0,264522615 | 3,780395107 | 1,034394612 | 3,910420331 |
| 10 | 50 | 0,25600819 | 0,966674613 | 0,264833881 | 3,775951909 | 1,034474255 | 3,906125039 |
| 9 | 51 | 0,256289373 | 0,966600102 | 0,265145196 | 3,771518461 | 1,034553998 | 3,901839502 |
| 8 | 52 | 0,256570535 | 0,96652551 | 0,265456558 | 3,767094729 | 1,034633841 | 3,897563688 |
| 7 | 53 | 0,256851675 | 0,966450835 | 0,265767968 | 3,762680683 | 1,034713783 | 3,893297564 |
| 6 | 54 | 0,257132793 | 0,966376079 | 0,266079427 | 3,758276288 | 1,034793826 | 3,889041097 |
| 5 | 55 | 0,25741389 | 0,966301242 | 0,266390933 | 3,753881513 | 1,034873968 | 3,884794256 |
| 4 | 56 | 0,257694964 | 0,966226322 | 0,266702488 | 3,749496325 | 1,03495421 | 3,880557008 |
| 3 | 57 | 0,257976017 | 0,966151321 | 0,267014092 | 3,745120692 | 1,035034553 | 3,87632932 |
| 2 | 58 | 0,258257048 | 0,966076238 | 0,267325743 | 3,740754583 | 1,035114995 | 3,872111162 |
| 1 | 59 | 0,258538058 | 0,966001073 | 0,267637444 | 3,736397965 | 1,035195538 | 3,867902501 |
| 0 | 60 | 0,258819045 | 0,965925826 | 0,267949192 | 3,732050808 | 1,03527618 | 3,863703305 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

75°

| 15° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,258819045 | 0,965925826 | 0,267949192 | 3,732050808 | 1,03527618 | 3,863703305 |
| 59 | 1 | 0,259100011 | 0,965850498 | 0,26826099 | 3,727713078 | 1,035356923 | 3,859513544 |
| 58 | 2 | 0,259380954 | 0,965775088 | 0,268572836 | 3,723384746 | 1,035437766 | 3,855333185 |
| 57 | 3 | 0,259661876 | 0,965699596 | 0,268884731 | 3,719065779 | 1,03551871 | 3,851162198 |
| 56 | 4 | 0,259942775 | 0,965624023 | 0,269196674 | 3,714756148 | 1,035599753 | 3,847000551 |
| 55 | 5 | 0,260223653 | 0,965548368 | 0,269508666 | 3,710455819 | 1,035680897 | 3,842848213 |
| 54 | 6 | 0,260504509 | 0,965472631 | 0,269820708 | 3,706164764 | 1,035762142 | 3,838705154 |
| 53 | 7 | 0,260785342 | 0,965396812 | 0,270132798 | 3,701882951 | 1,035843487 | 3,834571343 |
| 52 | 8 | 0,261066154 | 0,965320912 | 0,270444937 | 3,69761035 | 1,035924932 | 3,83044675 |
| 51 | 9 | 0,261346943 | 0,96524493 | 0,270757126 | 3,69334693 | 1,036006477 | 3,826331343 |
| 50 | 10 | 0,26162771 | 0,965168867 | 0,271069364 | 3,689092661 | 1,036088124 | 3,822225093 |
| 49 | 11 | 0,261908456 | 0,965092721 | 0,271381651 | 3,684847513 | 1,03616987 | 3,81812797 |
| 48 | 12 | 0,262189179 | 0,965016494 | 0,271693987 | 3,680611456 | 1,036251718 | 3,814039943 |
| 47 | 13 | 0,262469879 | 0,964940186 | 0,272006372 | 3,676384459 | 1,036333666 | 3,809960983 |
| 46 | 14 | 0,262750558 | 0,964863796 | 0,272318807 | 3,672166494 | 1,036415714 | 3,80589106 |
| 45 | 15 | 0,263031214 | 0,964787324 | 0,272631292 | 3,667957531 | 1,036497864 | 3,801830144 |
| 44 | 16 | 0,263311849 | 0,96471077 | 0,272943826 | 3,663757539 | 1,036580114 | 3,797778206 |
| 43 | 17 | 0,26359246 | 0,964634135 | 0,27325641 | 3,65956649 | 1,036662465 | 3,793735217 |
| 42 | 18 | 0,26387305 | 0,964557418 | 0,273569043 | 3,655384355 | 1,036744916 | 3,789701147 |
| 41 | 19 | 0,264153617 | 0,96448062 | 0,273881726 | 3,651211104 | 1,036827469 | 3,785675966 |
| 40 | 20 | 0,264434162 | 0,96440374 | 0,274194459 | 3,647046708 | 1,036910122 | 3,781659648 |
| 39 | 21 | 0,264714685 | 0,964326779 | 0,274507242 | 3,642891139 | 1,036992877 | 3,777652161 |
| 38 | 22 | 0,264995185 | 0,964249735 | 0,274820075 | 3,638744367 | 1,037075732 | 3,773653478 |
| 37 | 23 | 0,265275662 | 0,964172611 | 0,275132958 | 3,634606365 | 1,037158688 | 3,76966357 |
| 36 | 24 | 0,265556117 | 0,964095404 | 0,275445891 | 3,630477104 | 1,037241746 | 3,765682408 |
| 35 | 25 | 0,26583655 | 0,964018116 | 0,275758874 | 3,626356554 | 1,037324904 | 3,761709965 |
| 34 | 26 | 0,26611696 | 0,963940747 | 0,276071907 | 3,622244689 | 1,037408164 | 3,757746211 |
| 33 | 27 | 0,266397348 | 0,963863296 | 0,276384991 | 3,61814148 | 1,037491524 | 3,753791119 |
| 32 | 28 | 0,266677713 | 0,963785763 | 0,276698125 | 3,614046899 | 1,037574986 | 3,749844662 |
| 31 | 29 | 0,266958056 | 0,963708149 | 0,277011309 | 3,609960918 | 1,03765855 | 3,74590681 |
| 30 | 30 | 0,267238376 | 0,963630453 | 0,277324544 | 3,605883509 | 1,037742214 | 3,741977536 |
| 29 | 31 | 0,267518674 | 0,963552676 | 0,277637829 | 3,601814645 | 1,03782598 | 3,738056813 |
| 28 | 32 | 0,267798948 | 0,963474817 | 0,277951165 | 3,597754298 | 1,037909847 | 3,734144612 |
| 27 | 33 | 0,2680792 | 0,963396877 | 0,278264552 | 3,593702441 | 1,037993815 | 3,730240908 |
| 26 | 34 | 0,26835943 | 0,963318855 | 0,278577989 | 3,589659046 | 1,038077885 | 3,726345672 |
| 25 | 35 | 0,268639637 | 0,963240752 | 0,278891478 | 3,585624087 | 1,038162057 | 3,722458877 |
| 24 | 36 | 0,268919821 | 0,963162567 | 0,279205017 | 3,581597536 | 1,03824633 | 3,718580496 |
| 23 | 37 | 0,269199982 | 0,9630843 | 0,279518607 | 3,577579366 | 1,038330704 | 3,714710503 |
| 22 | 38 | 0,26948012 | 0,963005953 | 0,279832248 | 3,573569551 | 1,03841518 | 3,71084887 |
| 21 | 39 | 0,269760236 | 0,962927523 | 0,28014594 | 3,569568063 | 1,038499758 | 3,706995571 |
| 20 | 40 | 0,270040329 | 0,962849012 | 0,280459683 | 3,565574877 | 1,038584437 | 3,703150578 |
| 19 | 41 | 0,270320399 | 0,96277042 | 0,280773477 | 3,561589966 | 1,038669219 | 3,699313867 |
| 18 | 42 | 0,270600446 | 0,962691746 | 0,281087323 | 3,557613303 | 1,038754101 | 3,69548541 |
| 17 | 43 | 0,27088047 | 0,962612991 | 0,28140122 | 3,553644862 | 1,038839086 | 3,691665181 |
| 16 | 44 | 0,271160472 | 0,962534155 | 0,281715168 | 3,549684617 | 1,038924172 | 3,687853154 |
| 15 | 45 | 0,27144045 | 0,962455236 | 0,282029168 | 3,545732543 | 1,039009361 | 3,684049303 |
| 14 | 46 | 0,271720405 | 0,962376237 | 0,28234322 | 3,541788612 | 1,039094651 | 3,680253601 |
| 13 | 47 | 0,272000338 | 0,962297156 | 0,282657323 | 3,537852799 | 1,039180043 | 3,676466024 |
| 12 | 48 | 0,272280247 | 0,962217994 | 0,282971477 | 3,533925079 | 1,039265537 | 3,672686546 |
| 11 | 49 | 0,272560133 | 0,96213875 | 0,283285684 | 3,530005426 | 1,039351133 | 3,66891514 |
| 10 | 50 | 0,272839997 | 0,962059424 | 0,283599942 | 3,526093814 | 1,039436832 | 3,665151782 |
| 9 | 51 | 0,273119837 | 0,961980018 | 0,283914252 | 3,522190218 | 1,039522632 | 3,661396446 |
| 8 | 52 | 0,273399654 | 0,96190053 | 0,284228614 | 3,518294613 | 1,039608534 | 3,657649107 |
| 7 | 53 | 0,273679448 | 0,96182096 | 0,284543027 | 3,514406974 | 1,039694539 | 3,653909739 |
| 6 | 54 | 0,273959219 | 0,96174131 | 0,284857493 | 3,510527275 | 1,039780646 | 3,650178318 |
| 5 | 55 | 0,274238966 | 0,961661577 | 0,285172011 | 3,506655492 | 1,039866855 | 3,646454818 |
| 4 | 56 | 0,274518691 | 0,961581764 | 0,285486582 | 3,5027916 | 1,039953166 | 3,642739215 |
| 3 | 57 | 0,274798392 | 0,961501869 | 0,285801204 | 3,498935573 | 1,04003958 | 3,639031485 |
| 2 | 58 | 0,27507807 | 0,961421893 | 0,286115879 | 3,495087388 | 1,040126096 | 3,635331601 |
| 1 | 59 | 0,275357724 | 0,961341835 | 0,286430606 | 3,49124702 | 1,040212715 | 3,631639541 |
| 0 | 60 | 0,275637356 | 0,961261696 | 0,286745386 | 3,487414444 | 1,040299436 | 3,627955279 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

74°

| 16° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,275637356 | 0,961261696 | 0,286745386 | 3,487414444 | 1,040299436 | 3,627955279 |
| 59 | 1 | 0,275916964 | 0,961181476 | 0,287060218 | 3,483589636 | 1,040386259 | 3,624278791 |
| 58 | 2 | 0,276196549 | 0,961101174 | 0,287375103 | 3,479772572 | 1,040473185 | 3,620610052 |
| 57 | 3 | 0,27647611 | 0,961020791 | 0,28769004 | 3,475963227 | 1,040560214 | 3,61694904 |
| 56 | 4 | 0,276755648 | 0,960940327 | 0,28800503 | 3,472161578 | 1,040647345 | 3,613295729 |
| 55 | 5 | 0,277035162 | 0,960859781 | 0,288320073 | 3,468367601 | 1,040734579 | 3,609650096 |
| 54 | 6 | 0,277314653 | 0,960779154 | 0,288635169 | 3,464581272 | 1,040821916 | 3,606012117 |
| 53 | 7 | 0,277594121 | 0,960698446 | 0,288950317 | 3,460802566 | 1,040909355 | 3,602381768 |
| 52 | 8 | 0,277873565 | 0,960617656 | 0,289265519 | 3,457031461 | 1,040996897 | 3,598759026 |
| 51 | 9 | 0,278152986 | 0,960536786 | 0,289580774 | 3,453267933 | 1,041084542 | 3,595143866 |
| 50 | 10 | 0,278432383 | 0,960455834 | 0,289896082 | 3,449511959 | 1,04117229 | 3,591536266 |
| 49 | 11 | 0,278711756 | 0,9603748 | 0,290211443 | 3,445763514 | 1,041260141 | 3,587936203 |
| 48 | 12 | 0,278991106 | 0,960293686 | 0,290526857 | 3,442022577 | 1,041348095 | 3,584343652 |
| 47 | 13 | 0,279270432 | 0,96021249 | 0,290842324 | 3,438289123 | 1,041436151 | 3,580758592 |
| 46 | 14 | 0,279549735 | 0,960131213 | 0,291157845 | 3,434563129 | 1,041524311 | 3,577180998 |
| 45 | 15 | 0,279829014 | 0,960049854 | 0,29147342 | 3,430844574 | 1,041612574 | 3,573610848 |
| 44 | 16 | 0,280108269 | 0,959968415 | 0,291789047 | 3,427133433 | 1,04170094 | 3,570048118 |
| 43 | 17 | 0,280387501 | 0,959886894 | 0,292104729 | 3,423429684 | 1,041789409 | 3,566492787 |
| 42 | 18 | 0,280666709 | 0,959805292 | 0,292420464 | 3,419733305 | 1,041877981 | 3,562944832 |
| 41 | 19 | 0,280945893 | 0,959723609 | 0,292736253 | 3,416044272 | 1,041966657 | 3,559404229 |
| 40 | 20 | 0,281225053 | 0,959641844 | 0,293052096 | 3,412362563 | 1,042055436 | 3,555870957 |
| 39 | 21 | 0,28150419 | 0,959559999 | 0,293367992 | 3,408688156 | 1,042144318 | 3,552344993 |
| 38 | 22 | 0,281783303 | 0,959478072 | 0,293683942 | 3,405021029 | 1,042233303 | 3,548826314 |
| 37 | 23 | 0,282062392 | 0,959396064 | 0,293999947 | 3,401361159 | 1,042322392 | 3,545314899 |
| 36 | 24 | 0,282341457 | 0,959313975 | 0,294316005 | 3,397708524 | 1,042411584 | 3,541810725 |
| 35 | 25 | 0,282620498 | 0,959231804 | 0,294632118 | 3,394063102 | 1,04250088 | 3,538313771 |
| 34 | 26 | 0,282899515 | 0,959149553 | 0,294948285 | 3,390424871 | 1,042590279 | 3,534824013 |
| 33 | 27 | 0,283178509 | 0,95906722 | 0,295264506 | 3,386793809 | 1,042679782 | 3,531341432 |
| 32 | 28 | 0,283457478 | 0,958984806 | 0,295580781 | 3,383169895 | 1,042769389 | 3,527866004 |
| 31 | 29 | 0,283736423 | 0,958902311 | 0,295897111 | 3,379553107 | 1,042859099 | 3,524397708 |
| 30 | 30 | 0,284015345 | 0,958819735 | 0,296213495 | 3,375943423 | 1,042948913 | 3,520936522 |
| 29 | 31 | 0,284294242 | 0,958737078 | 0,296529934 | 3,372340821 | 1,04303883 | 3,517482425 |
| 28 | 32 | 0,284573115 | 0,958654339 | 0,296846427 | 3,36874528 | 1,043128852 | 3,514035396 |
| 27 | 33 | 0,284851965 | 0,95857152 | 0,297162975 | 3,36515678 | 1,043218977 | 3,510595413 |
| 26 | 34 | 0,28513079 | 0,958488619 | 0,297479578 | 3,361575298 | 1,043309206 | 3,507162455 |
| 25 | 35 | 0,285409591 | 0,958405637 | 0,297796235 | 3,358000813 | 1,043399539 | 3,5037365 |
| 24 | 36 | 0,285688367 | 0,958322574 | 0,298112948 | 3,354433305 | 1,043489976 | 3,500317528 |
| 23 | 37 | 0,28596712 | 0,958239431 | 0,298429715 | 3,350872752 | 1,043580517 | 3,496905518 |
| 22 | 38 | 0,286245848 | 0,958156206 | 0,298746537 | 3,347319133 | 1,043671162 | 3,493500448 |
| 21 | 39 | 0,286524553 | 0,958072899 | 0,299063415 | 3,343772428 | 1,043761911 | 3,490102298 |
| 20 | 40 | 0,286803233 | 0,957989512 | 0,299380347 | 3,340232616 | 1,043852764 | 3,486711048 |
| 19 | 41 | 0,287081888 | 0,957906044 | 0,299697335 | 3,336699676 | 1,043943721 | 3,483326675 |
| 18 | 42 | 0,28736052 | 0,957822495 | 0,300014378 | 3,333173587 | 1,044034782 | 3,479949161 |
| 17 | 43 | 0,287639127 | 0,957738865 | 0,300331476 | 3,32965433 | 1,044125948 | 3,476578484 |
| 16 | 44 | 0,28791771 | 0,957655153 | 0,30064863 | 3,326141883 | 1,044217218 | 3,473214624 |
| 15 | 45 | 0,288196268 | 0,957571361 | 0,300965839 | 3,322636226 | 1,044308592 | 3,469857561 |
| 14 | 46 | 0,288474802 | 0,957487487 | 0,301283104 | 3,31913734 | 1,044400071 | 3,466507274 |
| 13 | 47 | 0,288753312 | 0,957403533 | 0,301600424 | 3,315645203 | 1,044491654 | 3,463163743 |
| 12 | 48 | 0,289031797 | 0,957319498 | 0,3019178 | 3,312159796 | 1,044583342 | 3,459826948 |
| 11 | 49 | 0,289310258 | 0,957235381 | 0,302235232 | 3,308681098 | 1,044675134 | 3,45649687 |
| 10 | 50 | 0,289588694 | 0,957151184 | 0,30255272 | 3,305209091 | 1,044767031 | 3,453173487 |
| 9 | 51 | 0,289867106 | 0,957066905 | 0,302870263 | 3,301743753 | 1,044859032 | 3,449856781 |
| 8 | 52 | 0,290145493 | 0,956982546 | 0,303187863 | 3,298285065 | 1,044951138 | 3,446546731 |
| 7 | 53 | 0,290423856 | 0,956898105 | 0,303505518 | 3,294833008 | 1,045043348 | 3,443243318 |
| 6 | 54 | 0,290702194 | 0,956813584 | 0,30382323 | 3,291387561 | 1,045135663 | 3,439946523 |
| 5 | 55 | 0,290980507 | 0,956728982 | 0,304140998 | 3,287948706 | 1,045228083 | 3,436656325 |
| 4 | 56 | 0,291258796 | 0,956644298 | 0,304458822 | 3,284516422 | 1,045320608 | 3,433372705 |
| 3 | 57 | 0,29153706 | 0,956559534 | 0,304776702 | 3,281090691 | 1,045413238 | 3,430095643 |
| 2 | 58 | 0,2918153 | 0,956474689 | 0,305094639 | 3,277671493 | 1,045505973 | 3,426825122 |
| 1 | 59 | 0,292093515 | 0,956389763 | 0,305412632 | 3,274258808 | 1,045598812 | 3,42356112 |
| 0 | 60 | 0,292371705 | 0,956304756 | 0,305730681 | 3,270852618 | 1,045691756 | 3,42030362 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

73°

17°

| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| 60 | 0 | 0,292371705 | 0,956304756 | 0,305730681 | 3,270852618 | 1,045691756 | 3,42030362 |
| 59 | 1 | 0,29264987 | 0,956219668 | 0,306048788 | 3,267452904 | 1,045784806 | 3,417052601 |
| 58 | 2 | 0,292928011 | 0,956134499 | 0,30636695 | 3,264059646 | 1,045877961 | 3,413808046 |
| 57 | 3 | 0,293206127 | 0,956049249 | 0,30668517 | 3,260672826 | 1,04597122 | 3,410569934 |
| 56 | 4 | 0,293484218 | 0,955963919 | 0,307003446 | 3,257292424 | 1,046064585 | 3,407338248 |
| 55 | 5 | 0,293762284 | 0,955878507 | 0,30732178 | 3,253918422 | 1,046158055 | 3,404112968 |
| 54 | 6 | 0,294040325 | 0,955793015 | 0,30764017 | 3,250550801 | 1,04625163 | 3,400894075 |
| 53 | 7 | 0,294318342 | 0,955707441 | 0,307958617 | 3,247189543 | 1,046345311 | 3,397681552 |
| 52 | 8 | 0,294596333 | 0,955621787 | 0,308277121 | 3,243834629 | 1,046439097 | 3,394475379 |
| 51 | 9 | 0,2948743 | 0,955536052 | 0,308595682 | 3,24048604 | 1,046532988 | 3,391275538 |
| 50 | 10 | 0,295152242 | 0,955450236 | 0,308914301 | 3,237143757 | 1,046626985 | 3,38808201 |
| 49 | 11 | 0,295430158 | 0,95536434 | 0,309232976 | 3,233807764 | 1,046721087 | 3,384894777 |
| 48 | 12 | 0,29570805 | 0,955278362 | 0,30955171 | 3,230478041 | 1,046815295 | 3,381713822 |
| 47 | 13 | 0,295985917 | 0,955192304 | 0,3098705 | 3,22715457 | 1,046909608 | 3,378539124 |
| 46 | 14 | 0,296263758 | 0,955106164 | 0,310189348 | 3,223837332 | 1,047004027 | 3,375370668 |
| 45 | 15 | 0,296541575 | 0,955019944 | 0,310508253 | 3,220526311 | 1,047098551 | 3,372208433 |
| 44 | 16 | 0,296819366 | 0,954933644 | 0,310827217 | 3,217221487 | 1,047193181 | 3,369052404 |
| 43 | 17 | 0,297097133 | 0,954847262 | 0,311146237 | 3,213922843 | 1,047287917 | 3,36590256 |
| 42 | 18 | 0,297374874 | 0,9547608 | 0,311465316 | 3,210630362 | 1,047382759 | 3,362758885 |
| 41 | 19 | 0,29765259 | 0,954674256 | 0,311784452 | 3,207344024 | 1,047477706 | 3,359621361 |
| 40 | 20 | 0,297930281 | 0,954587632 | 0,312103647 | 3,204063813 | 1,047572759 | 3,35648997 |
| 39 | 21 | 0,298207947 | 0,954500927 | 0,312422899 | 3,200789711 | 1,047667919 | 3,353364694 |
| 38 | 22 | 0,298485587 | 0,954414142 | 0,312742209 | 3,197521699 | 1,047763184 | 3,350245516 |
| 37 | 23 | 0,298763202 | 0,954327276 | 0,313061578 | 3,194259762 | 1,047858555 | 3,347132418 |
| 36 | 24 | 0,299040792 | 0,954240329 | 0,313381004 | 3,19100388 | 1,047954032 | 3,344025383 |
| 35 | 25 | 0,299318357 | 0,954153301 | 0,313700489 | 3,187754038 | 1,048049616 | 3,340924394 |
| 34 | 26 | 0,299595896 | 0,954066192 | 0,314020032 | 3,184510217 | 1,048145305 | 3,337829433 |
| 33 | 27 | 0,29987341 | 0,953979003 | 0,314339633 | 3,1812724 | 1,048241101 | 3,334740482 |
| 32 | 28 | 0,300150899 | 0,953891733 | 0,314659293 | 3,17804057 | 1,048337003 | 3,331657525 |
| 31 | 29 | 0,300428362 | 0,953804382 | 0,314979012 | 3,17481471 | 1,048433011 | 3,328580544 |
| 30 | 30 | 0,3007058 | 0,953716951 | 0,315298789 | 3,171594802 | 1,048529125 | 3,325509523 |
| 29 | 31 | 0,300983212 | 0,953629439 | 0,315618625 | 3,168380831 | 1,048625346 | 3,322444445 |
| 28 | 32 | 0,301260599 | 0,953541846 | 0,315938519 | 3,165172778 | 1,048721673 | 3,319385292 |
| 27 | 33 | 0,30153796 | 0,953454172 | 0,316258472 | 3,161970627 | 1,048818107 | 3,316332047 |
| 26 | 34 | 0,301815296 | 0,953366418 | 0,316578484 | 3,158774361 | 1,048914647 | 3,313284694 |
| 25 | 35 | 0,302092606 | 0,953278583 | 0,316898555 | 3,155583964 | 1,049011294 | 3,310243217 |
| 24 | 36 | 0,302369891 | 0,953190668 | 0,317218686 | 3,152399419 | 1,049108047 | 3,307207598 |
| 23 | 37 | 0,30264715 | 0,953102672 | 0,317538875 | 3,149220708 | 1,049204907 | 3,30417782 |
| 22 | 38 | 0,302924383 | 0,953014595 | 0,317859123 | 3,146047816 | 1,049301874 | 3,301153868 |
| 21 | 39 | 0,303201591 | 0,952926437 | 0,318179431 | 3,142880726 | 1,049398947 | 3,298135725 |
| 20 | 40 | 0,303478774 | 0,952838199 | 0,318499797 | 3,139719422 | 1,049496127 | 3,295123374 |
| 19 | 41 | 0,30375593 | 0,952749881 | 0,318820224 | 3,136563886 | 1,049593414 | 3,292116798 |
| 18 | 42 | 0,304033061 | 0,952661481 | 0,319140709 | 3,133414104 | 1,049690808 | 3,289115983 |
| 17 | 43 | 0,304310166 | 0,952573001 | 0,319461255 | 3,130270059 | 1,049788309 | 3,286120911 |
| 16 | 44 | 0,304587245 | 0,952484441 | 0,319781859 | 3,127131733 | 1,049885916 | 3,283131566 |
| 15 | 45 | 0,304864299 | 0,9523958 | 0,320102524 | 3,123999113 | 1,049983631 | 3,280147932 |
| 14 | 46 | 0,305141327 | 0,952307078 | 0,320423248 | 3,12087218 | 1,050081453 | 3,277169993 |
| 13 | 47 | 0,305418329 | 0,952218276 | 0,320744032 | 3,11775092 | 1,050179382 | 3,274197734 |
| 12 | 48 | 0,305695305 | 0,952129393 | 0,321064876 | 3,114635316 | 1,050277418 | 3,271231137 |
| 11 | 49 | 0,305972255 | 0,952040429 | 0,321385779 | 3,111525352 | 1,050375561 | 3,268270187 |
| 10 | 50 | 0,30624918 | 0,951951385 | 0,321706743 | 3,108421013 | 1,050473811 | 3,265314869 |
| 9 | 51 | 0,306526078 | 0,951862261 | 0,322027767 | 3,105322283 | 1,050572169 | 3,262365167 |
| 8 | 52 | 0,306802951 | 0,951773056 | 0,322348851 | 3,102229146 | 1,050670634 | 3,259421065 |
| 7 | 53 | 0,307079797 | 0,95168377 | 0,322669995 | 3,099141587 | 1,050769207 | 3,256482547 |
| 6 | 54 | 0,307356618 | 0,951594404 | 0,322991199 | 3,096059589 | 1,050867886 | 3,253549597 |
| 5 | 55 | 0,307633412 | 0,951504957 | 0,323312464 | 3,092983138 | 1,050966674 | 3,250622201 |
| 4 | 56 | 0,307910181 | 0,95141543 | 0,323633789 | 3,089912218 | 1,051065569 | 3,247700342 |
| 3 | 57 | 0,308186923 | 0,951325822 | 0,323955175 | 3,086846813 | 1,051164571 | 3,244784006 |
| 2 | 58 | 0,30846364 | 0,951236134 | 0,324276622 | 3,083786908 | 1,051263681 | 3,241873177 |
| 1 | 59 | 0,30874033 | 0,951146365 | 0,324598129 | 3,080732488 | 1,051362899 | 3,238967839 |
| 0 | 60 | 0,309016994 | 0,951056516 | 0,324919696 | 3,077683537 | 1,051462224 | 3,236067977 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

72°

| 18° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,309016994 | 0,951056516 | 0,324919696 | 3,077683537 | 1,051462224 | 3,236067977 |
| 59 | 1 | 0,309293632 | 0,950966587 | 0,325241325 | 3,074640041 | 1,051561657 | 3,233173577 |
| 58 | 2 | 0,309570244 | 0,950876577 | 0,325563014 | 3,071601984 | 1,051661198 | 3,230284623 |
| 57 | 3 | 0,30984683 | 0,950786486 | 0,325884764 | 3,068569351 | 1,051760847 | 3,2274011 |
| 56 | 4 | 0,310123389 | 0,950696315 | 0,326206576 | 3,065542127 | 1,051860604 | 3,224522993 |
| 55 | 5 | 0,310399923 | 0,950606064 | 0,326528448 | 3,062520297 | 1,051960469 | 3,221650287 |
| 54 | 6 | 0,31067643 | 0,950515732 | 0,326850382 | 3,059503847 | 1,052060441 | 3,218782967 |
| 53 | 7 | 0,31095291 | 0,950425319 | 0,327172376 | 3,056492761 | 1,052160522 | 3,215921018 |
| 52 | 8 | 0,311229365 | 0,950334827 | 0,327494432 | 3,053487024 | 1,052260711 | 3,213064426 |
| 51 | 9 | 0,311505793 | 0,950244253 | 0,32781655 | 3,050486622 | 1,052361008 | 3,210213176 |
| 50 | 10 | 0,311782194 | 0,9501536 | 0,328138729 | 3,047491541 | 1,052461413 | 3,207367252 |
| 49 | 11 | 0,31205857 | 0,950062866 | 0,328460969 | 3,044501765 | 1,052561926 | 3,204526641 |
| 48 | 12 | 0,312334919 | 0,949972052 | 0,328783271 | 3,041517279 | 1,052662548 | 3,201691328 |
| 47 | 13 | 0,312611241 | 0,949881157 | 0,329105635 | 3,03853807 | 1,052763278 | 3,198861298 |
| 46 | 14 | 0,312887537 | 0,949790182 | 0,32942806 | 3,035564123 | 1,052864116 | 3,196036537 |
| 45 | 15 | 0,313163806 | 0,949699126 | 0,329750547 | 3,032595423 | 1,052965063 | 3,19321703 |
| 44 | 16 | 0,31344005 | 0,94960799 | 0,330073096 | 3,029631956 | 1,053066118 | 3,190402763 |
| 43 | 17 | 0,313716266 | 0,949516774 | 0,330395707 | 3,026673708 | 1,053167282 | 3,187593722 |
| 42 | 18 | 0,313992456 | 0,949425478 | 0,33071838 | 3,023720665 | 1,053268554 | 3,184789892 |
| 41 | 19 | 0,314268619 | 0,949334101 | 0,331041115 | 3,020772811 | 1,053369935 | 3,18199126 |
| 40 | 20 | 0,314544756 | 0,949242644 | 0,331363912 | 3,017830134 | 1,053471425 | 3,17919781 |
| 39 | 21 | 0,314820866 | 0,949151106 | 0,331686772 | 3,014892618 | 1,053573023 | 3,17640953 |
| 38 | 22 | 0,31509695 | 0,949059488 | 0,332009694 | 3,011960251 | 1,05367473 | 3,173626404 |
| 37 | 23 | 0,315373007 | 0,94896779 | 0,332332678 | 3,009033017 | 1,053776546 | 3,170848419 |
| 36 | 24 | 0,315649037 | 0,948876012 | 0,332655724 | 3,006110903 | 1,053878471 | 3,168075562 |
| 35 | 25 | 0,31592504 | 0,948784153 | 0,332978833 | 3,003193896 | 1,053980504 | 3,165307817 |
| 34 | 26 | 0,316201017 | 0,948692214 | 0,333302005 | 3,00028198 | 1,054082647 | 3,162545171 |
| 33 | 27 | 0,316476967 | 0,948600195 | 0,33362524 | 2,997375143 | 1,054184899 | 3,159787611 |
| 32 | 28 | 0,31675289 | 0,948508095 | 0,333948537 | 2,99447337 | 1,054287259 | 3,157035122 |
| 31 | 29 | 0,317028787 | 0,948415915 | 0,334271897 | 2,991576648 | 1,054389729 | 3,154287691 |
| 30 | 30 | 0,317304656 | 0,948323655 | 0,33459532 | 2,988684963 | 1,054492308 | 3,151545305 |
| 29 | 31 | 0,317580499 | 0,948231315 | 0,334918805 | 2,985798301 | 1,054594996 | 3,148807949 |
| 28 | 32 | 0,317856315 | 0,948138894 | 0,335242354 | 2,98291665 | 1,054697794 | 3,14607561 |
| 27 | 33 | 0,318132104 | 0,948046394 | 0,335565966 | 2,980039995 | 1,0548007 | 3,143348274 |
| 26 | 34 | 0,318407866 | 0,947953813 | 0,335889641 | 2,977168323 | 1,054903717 | 3,140625929 |
| 25 | 35 | 0,318683601 | 0,947861151 | 0,33621338 | 2,974301621 | 1,055006842 | 3,13790856 |
| 24 | 36 | 0,318959309 | 0,94776841 | 0,336537181 | 2,971439875 | 1,055110077 | 3,135196155 |
| 23 | 37 | 0,31923499 | 0,947675588 | 0,336861047 | 2,968583071 | 1,055213421 | 3,132488699 |
| 22 | 38 | 0,319510645 | 0,947582687 | 0,337184975 | 2,965731198 | 1,055316875 | 3,129786181 |
| 21 | 39 | 0,319786272 | 0,947489705 | 0,337508967 | 2,96288424 | 1,055420439 | 3,127088585 |
| 20 | 40 | 0,320061872 | 0,947396643 | 0,337833023 | 2,960042186 | 1,055524112 | 3,1243959 |
| 19 | 41 | 0,320337445 | 0,9473035 | 0,338157143 | 2,957205022 | 1,055627895 | 3,121708113 |
| 18 | 42 | 0,320612991 | 0,947210278 | 0,338481326 | 2,954372735 | 1,055731788 | 3,119025209 |
| 17 | 43 | 0,320888509 | 0,947116975 | 0,338805573 | 2,951545311 | 1,05583579 | 3,116347177 |
| 16 | 44 | 0,321164001 | 0,947023592 | 0,339129884 | 2,948722739 | 1,055939903 | 3,113674002 |
| 15 | 45 | 0,321439465 | 0,946930129 | 0,339454259 | 2,945905005 | 1,056044125 | 3,111005673 |
| 14 | 46 | 0,321714903 | 0,946836586 | 0,339778698 | 2,943092095 | 1,056148457 | 3,108342176 |
| 13 | 47 | 0,321990312 | 0,946742963 | 0,340103201 | 2,940283998 | 1,056252899 | 3,105683498 |
| 12 | 48 | 0,322265695 | 0,94664926 | 0,340427769 | 2,9374807 | 1,056357452 | 3,103029627 |
| 11 | 49 | 0,322541051 | 0,946555477 | 0,3407524 | 2,934682189 | 1,056462114 | 3,100380549 |
| 10 | 50 | 0,322816379 | 0,946461613 | 0,341077096 | 2,931888452 | 1,056566887 | 3,097736253 |
| 9 | 51 | 0,32309168 | 0,94636767 | 0,341401857 | 2,929099476 | 1,056671769 | 3,095096726 |
| 8 | 52 | 0,323366953 | 0,946273646 | 0,341726682 | 2,926315249 | 1,056776762 | 3,092461954 |
| 7 | 53 | 0,323642199 | 0,946179543 | 0,342051571 | 2,923535757 | 1,056881865 | 3,089831925 |
| 6 | 54 | 0,323917418 | 0,946085359 | 0,342376526 | 2,920760989 | 1,056987079 | 3,087206627 |
| 5 | 55 | 0,32419261 | 0,945991095 | 0,342701545 | 2,917990932 | 1,057092403 | 3,084586047 |
| 4 | 56 | 0,324467774 | 0,945896751 | 0,343026629 | 2,915225574 | 1,057197838 | 3,081970173 |
| 3 | 57 | 0,32474291 | 0,945802327 | 0,343351777 | 2,912464902 | 1,057303383 | 3,079358992 |
| 2 | 58 | 0,325018019 | 0,945707823 | 0,343676991 | 2,909708903 | 1,057409038 | 3,076752492 |
| 1 | 59 | 0,3252931 | 0,94561324 | 0,34400227 | 2,906957566 | 1,057514804 | 3,074150661 |
| 0 | 60 | 0,325568154 | 0,945518576 | 0,344327613 | 2,904210878 | 1,057620681 | 3,071553487 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

71°

| 19° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|--------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,325568154 | 0,945518576 | 0,344327613 | 2,904210878 | 1,057620681 | 3,071553487 |
| 59 | 1 | 0,325843181 | 0,945423832 | 0,344653022 | 2,901468826 | 1,057726669 | 3,068960956 |
| 58 | 2 | 0,32611818 | 0,945329008 | 0,344978496 | 2,8987314 | 1,057832767 | 3,066373058 |
| 57 | 3 | 0,326393151 | 0,945234104 | 0,345304036 | 2,895998586 | 1,057938976 | 3,063789779 |
| 56 | 4 | 0,326668095 | 0,94513912 | 0,345629641 | 2,893270373 | 1,058045296 | 3,061211108 |
| 55 | 5 | 0,326943011 | 0,945044056 | 0,345955311 | 2,890546747 | 1,058151727 | 3,058637033 |
| 54 | 6 | 0,327217899 | 0,944948912 | 0,346281047 | 2,887827699 | 1,058258269 | 3,056067541 |
| 53 | 7 | 0,32749276 | 0,944853688 | 0,346606849 | 2,885113214 | 1,058364922 | 3,053502621 |
| 52 | 8 | 0,327767593 | 0,944758385 | 0,346932716 | 2,882403282 | 1,058471686 | 3,050942261 |
| 51 | 9 | 0,328042398 | 0,944663001 | 0,347258649 | 2,879697891 | 1,058578561 | 3,048386449 |
| 50 | 10 | 0,328317175 | 0,944567537 | 0,347584648 | 2,876997028 | 1,058685547 | 3,045835172 |
| 49 | 11 | 0,328591925 | 0,944471994 | 0,347910713 | 2,874300682 | 1,058792645 | 3,04328842 |
| 48 | 12 | 0,328866647 | 0,94437637 | 0,348236844 | 2,871608841 | 1,058899853 | 3,040746181 |
| 47 | 13 | 0,329141341 | 0,944280667 | 0,348563041 | 2,868921493 | 1,059007174 | 3,038208442 |
| 46 | 14 | 0,329416007 | 0,944184884 | 0,348889304 | 2,866238627 | 1,059114605 | 3,035675192 |
| 45 | 15 | 0,329690645 | 0,94408902 | 0,349215633 | 2,863560231 | 1,059222148 | 3,033146419 |
| 44 | 16 | 0,329965256 | 0,943993077 | 0,349542029 | 2,860886294 | 1,059329802 | 3,030622112 |
| 43 | 17 | 0,330239838 | 0,943897054 | 0,349868491 | 2,858216803 | 1,059437568 | 3,028102259 |
| 42 | 18 | 0,330514393 | 0,943800952 | 0,35019502 | 2,855551747 | 1,059545446 | 3,025586849 |
| 41 | 19 | 0,330788919 | 0,943704769 | 0,350521615 | 2,852891115 | 1,059653435 | 3,02307587 |
| 40 | 20 | 0,331063418 | 0,943608506 | 0,350848276 | 2,850234896 | 1,059761536 | 3,020569311 |
| 39 | 21 | 0,331337888 | 0,943512164 | 0,351175005 | 2,847583077 | 1,059869749 | 3,01806716 |
| 38 | 22 | 0,331612331 | 0,943415742 | 0,3515018 | 2,844935648 | 1,059978073 | 3,015569406 |
| 37 | 23 | 0,331886745 | 0,94331924 | 0,351828661 | 2,842292597 | 1,060086509 | 3,013076038 |
| 36 | 24 | 0,332161132 | 0,943222658 | 0,35215559 | 2,839653913 | 1,060195057 | 3,010587043 |
| 35 | 25 | 0,33243549 | 0,943125996 | 0,352482586 | 2,837019585 | 1,060303718 | 3,008102413 |
| 34 | 26 | 0,33270982 | 0,943029255 | 0,352809649 | 2,834389601 | 1,06041249 | 3,005622133 |
| 33 | 27 | 0,332984122 | 0,942932434 | 0,353136779 | 2,83176395 | 1,060521374 | 3,003146195 |
| 32 | 28 | 0,333258396 | 0,942835533 | 0,353463976 | 2,829142621 | 1,06063037 | 3,000674586 |
| 31 | 29 | 0,333532642 | 0,942738552 | 0,353791241 | 2,826525603 | 1,060739479 | 2,998207296 |
| 30 | 30 | 0,333806859 | 0,942641491 | 0,354118573 | 2,823912886 | 1,0608487 | 2,995744312 |
| 29 | 31 | 0,334081048 | 0,942544351 | 0,354445972 | 2,821304457 | 1,060958033 | 2,993285626 |
| 28 | 32 | 0,334355209 | 0,942447131 | 0,354773439 | 2,818700306 | 1,061067478 | 2,990831224 |
| 27 | 33 | 0,334629342 | 0,942349831 | 0,355100973 | 2,816100421 | 1,061177036 | 2,988381097 |
| 26 | 34 | 0,334903446 | 0,942252451 | 0,355428575 | 2,813504793 | 1,061286706 | 2,985935234 |
| 25 | 35 | 0,335177522 | 0,942154992 | 0,355756245 | 2,81091341 | 1,061396489 | 2,983493623 |
| 24 | 36 | 0,33545157 | 0,942057453 | 0,356083983 | 2,808326261 | 1,061506384 | 2,9810156254 |
| 23 | 37 | 0,335725589 | 0,941959834 | 0,356411788 | 2,805743336 | 1,061616392 | 2,978623116 |
| 22 | 38 | 0,33599958 | 0,941862136 | 0,356739662 | 2,803164624 | 1,061726512 | 2,976194199 |
| 21 | 39 | 0,336273542 | 0,941764357 | 0,357067603 | 2,800590113 | 1,061836745 | 2,97376949 |
| 20 | 40 | 0,336547476 | 0,9416665 | 0,357395613 | 2,798019794 | 1,061947091 | 2,971348981 |
| 19 | 41 | 0,336821381 | 0,941568562 | 0,357723691 | 2,795453655 | 1,06205755 | 2,96893266 |
| 18 | 42 | 0,337095258 | 0,941470545 | 0,358051837 | 2,792891687 | 1,062168121 | 2,966520516 |
| 17 | 43 | 0,337369107 | 0,941372448 | 0,358380052 | 2,790333877 | 1,062278806 | 2,964112539 |
| 16 | 44 | 0,337642927 | 0,941274271 | 0,358708335 | 2,787780217 | 1,062389603 | 2,961708719 |
| 15 | 45 | 0,337916718 | 0,941176015 | 0,359036687 | 2,785230695 | 1,062500514 | 2,959309045 |
| 14 | 46 | 0,338190481 | 0,941077679 | 0,359365107 | 2,782685301 | 1,062611538 | 2,956913506 |
| 13 | 47 | 0,338464215 | 0,940979264 | 0,359693596 | 2,780144024 | 1,062722674 | 2,954522092 |
| 12 | 48 | 0,33873792 | 0,940880769 | 0,360022153 | 2,777606854 | 1,062833924 | 2,952134793 |
| 11 | 49 | 0,339011597 | 0,940782194 | 0,360350779 | 2,775073781 | 1,062945288 | 2,949751598 |
| 10 | 50 | 0,339285245 | 0,94068354 | 0,360679475 | 2,772544794 | 1,063056764 | 2,947372497 |
| 9 | 51 | 0,339558865 | 0,940584806 | 0,361008239 | 2,770019883 | 1,063168354 | 2,944997479 |
| 8 | 52 | 0,339832455 | 0,940485993 | 0,361337072 | 2,767499038 | 1,063280057 | 2,942626535 |
| 7 | 53 | 0,340106017 | 0,9403871 | 0,361665975 | 2,764982248 | 1,063391874 | 2,940259654 |
| 6 | 54 | 0,34037955 | 0,940288127 | 0,361994946 | 2,762469503 | 1,063503804 | 2,937896825 |
| 5 | 55 | 0,340653055 | 0,940189075 | 0,362323987 | 2,759960794 | 1,063615848 | 2,93553804 |
| 4 | 56 | 0,34092653 | 0,940089943 | 0,362653098 | 2,757456109 | 1,063728005 | 2,933183287 |
| 3 | 57 | 0,341199977 | 0,939990732 | 0,362982278 | 2,75495544 | 1,063840276 | 2,930832557 |
| 2 | 58 | 0,341473394 | 0,939891441 | 0,363311527 | 2,752458775 | 1,063952661 | 2,928485839 |
| 1 | 59 | 0,341746783 | 0,939792071 | 0,363640846 | 2,749966105 | 1,06406516 | 2,926143123 |
| 0 | 60 | 0,342020143 | 0,939692621 | 0,363970234 | 2,747477419 | 1,064177772 | 2,9238044 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

70°

| 20° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,342020143 | 0,939692621 | 0,363970234 | 2,747477419 | 1,064177772 | 2,9238044 |
| 59 | 1 | 0,342293474 | 0,939593091 | 0,364299693 | 2,744992709 | 1,064290499 | 2,92146966 |
| 58 | 2 | 0,342566776 | 0,939493483 | 0,364629221 | 2,742511963 | 1,064403339 | 2,919138892 |
| 57 | 3 | 0,342840049 | 0,939393794 | 0,364958819 | 2,740035172 | 1,064516294 | 2,916812086 |
| 56 | 4 | 0,343113294 | 0,939294026 | 0,365288487 | 2,737562327 | 1,064629362 | 2,914489234 |
| 55 | 5 | 0,343386509 | 0,939194179 | 0,365618225 | 2,735093416 | 1,064742545 | 2,912170324 |
| 54 | 6 | 0,343659695 | 0,939094252 | 0,365948033 | 2,732628431 | 1,064855841 | 2,909855347 |
| 53 | 7 | 0,343932851 | 0,938994246 | 0,366277912 | 2,730167362 | 1,064969252 | 2,907544294 |
| 52 | 8 | 0,344205979 | 0,93889416 | 0,366607861 | 2,727710198 | 1,065082778 | 2,905237155 |
| 51 | 9 | 0,344479078 | 0,938793995 | 0,36693788 | 2,725256931 | 1,065196417 | 2,90293392 |
| 50 | 10 | 0,344752147 | 0,93869375 | 0,367267969 | 2,722807551 | 1,065310171 | 2,900634578 |
| 49 | 11 | 0,345025188 | 0,938593426 | 0,367598129 | 2,720362047 | 1,06542404 | 2,898339122 |
| 48 | 12 | 0,345298199 | 0,938493023 | 0,36792836 | 2,71792041 | 1,065538023 | 2,896047541 |
| 47 | 13 | 0,345571181 | 0,93839254 | 0,368258662 | 2,715482632 | 1,065652121 | 2,893759825 |
| 46 | 14 | 0,345844134 | 0,938291978 | 0,368589034 | 2,713048701 | 1,065766333 | 2,891475965 |
| 45 | 15 | 0,346117057 | 0,938191336 | 0,368919477 | 2,710618609 | 1,06588066 | 2,889195951 |
| 44 | 16 | 0,346389951 | 0,938090615 | 0,369249991 | 2,708192347 | 1,065995101 | 2,886919775 |
| 43 | 17 | 0,346662816 | 0,937989814 | 0,369580576 | 2,705769904 | 1,066109658 | 2,884647426 |
| 42 | 18 | 0,346935652 | 0,937888935 | 0,369911232 | 2,703351271 | 1,066224329 | 2,882378895 |
| 41 | 19 | 0,347208458 | 0,937787975 | 0,37024196 | 2,700936439 | 1,066339115 | 2,880114173 |
| 40 | 20 | 0,347481234 | 0,937686937 | 0,370572758 | 2,698525399 | 1,066454016 | 2,87785325 |
| 39 | 21 | 0,347753982 | 0,937585819 | 0,370903628 | 2,696118141 | 1,066569033 | 2,875596117 |
| 38 | 22 | 0,3480267 | 0,937484622 | 0,371234569 | 2,693714656 | 1,066684164 | 2,873342765 |
| 37 | 23 | 0,348299388 | 0,937383345 | 0,371565582 | 2,691314934 | 1,06679941 | 2,871093185 |
| 36 | 24 | 0,348572047 | 0,937281989 | 0,371896666 | 2,688918967 | 1,066914772 | 2,868847367 |
| 35 | 25 | 0,348844677 | 0,937180554 | 0,372227822 | 2,686526745 | 1,067030249 | 2,866605301 |
| 34 | 26 | 0,349117277 | 0,93707904 | 0,37255905 | 2,68413826 | 1,067145841 | 2,86436698 |
| 33 | 27 | 0,349389847 | 0,936977446 | 0,372890349 | 2,681753501 | 1,067261548 | 2,862132394 |
| 32 | 28 | 0,349662388 | 0,936875773 | 0,373221721 | 2,679372459 | 1,067377371 | 2,859901533 |
| 31 | 29 | 0,3499349 | 0,936774021 | 0,373553164 | 2,676995127 | 1,06749331 | 2,857674388 |
| 30 | 30 | 0,350207381 | 0,936672189 | 0,373884679 | 2,674621494 | 1,067609364 | 2,855450951 |
| 29 | 31 | 0,350479833 | 0,936570278 | 0,374216267 | 2,672251552 | 1,067725533 | 2,853231213 |
| 28 | 32 | 0,350752256 | 0,936468288 | 0,374547927 | 2,669885291 | 1,067841819 | 2,851015164 |
| 27 | 33 | 0,351024648 | 0,936366219 | 0,374879659 | 2,667522703 | 1,067958219 | 2,848802796 |
| 26 | 34 | 0,351297012 | 0,93626407 | 0,375211463 | 2,665163778 | 1,068074736 | 2,846594099 |
| 25 | 35 | 0,351569345 | 0,936161843 | 0,37554334 | 2,662808508 | 1,068191369 | 2,844389065 |
| 24 | 36 | 0,351841648 | 0,936059536 | 0,375875289 | 2,660456884 | 1,068308117 | 2,842187685 |
| 23 | 37 | 0,352113922 | 0,93595715 | 0,376207311 | 2,658108898 | 1,068424981 | 2,839989949 |
| 22 | 38 | 0,352386166 | 0,935854684 | 0,376539405 | 2,655764539 | 1,068541962 | 2,83779585 |
| 21 | 39 | 0,35265838 | 0,93575214 | 0,376871573 | 2,6534238 | 1,068659058 | 2,835605378 |
| 20 | 40 | 0,352930565 | 0,935649516 | 0,377203813 | 2,651086671 | 1,06877627 | 2,833418525 |
| 19 | 41 | 0,353202719 | 0,935546813 | 0,377536126 | 2,648753144 | 1,068893599 | 2,831235281 |
| 18 | 42 | 0,353474844 | 0,935444031 | 0,377868512 | 2,64642321 | 1,069011044 | 2,829055639 |
| 17 | 43 | 0,353746938 | 0,93534117 | 0,378200971 | 2,644096861 | 1,069128605 | 2,826879589 |
| 16 | 44 | 0,354019003 | 0,935238229 | 0,378533503 | 2,641774088 | 1,069246283 | 2,824707123 |
| 15 | 45 | 0,354291038 | 0,93513521 | 0,378866109 | 2,639454881 | 1,069364077 | 2,822538232 |
| 14 | 46 | 0,354563043 | 0,935032111 | 0,379198788 | 2,637139234 | 1,069481987 | 2,820372908 |
| 13 | 47 | 0,354835018 | 0,934928933 | 0,37953154 | 2,634827136 | 1,069600014 | 2,818211141 |
| 12 | 48 | 0,355106962 | 0,934825676 | 0,379864365 | 2,63251858 | 1,069718157 | 2,816052925 |
| 11 | 49 | 0,355378877 | 0,93472234 | 0,380197265 | 2,630213557 | 1,069836417 | 2,813898249 |
| 10 | 50 | 0,355650762 | 0,934618925 | 0,380530238 | 2,627912058 | 1,069954794 | 2,811747105 |
| 9 | 51 | 0,355922616 | 0,934515431 | 0,380863284 | 2,625614075 | 1,070073288 | 2,809599486 |
| 8 | 52 | 0,356194441 | 0,934411858 | 0,381196405 | 2,6233196 | 1,070191898 | 2,807455382 |
| 7 | 53 | 0,356466235 | 0,934308206 | 0,381529599 | 2,621028623 | 1,070310625 | 2,805314785 |
| 6 | 54 | 0,356737999 | 0,934204474 | 0,381862867 | 2,618741138 | 1,07042947 | 2,803177688 |
| 5 | 55 | 0,357009733 | 0,934100664 | 0,38219621 | 2,616457135 | 1,070548431 | 2,80104408 |
| 4 | 56 | 0,357281437 | 0,933996774 | 0,382529626 | 2,614176606 | 1,070667509 | 2,798913955 |
| 3 | 57 | 0,357553111 | 0,933892806 | 0,382863117 | 2,611899543 | 1,070786704 | 2,796787304 |
| 2 | 58 | 0,357824754 | 0,933788759 | 0,383196682 | 2,609625937 | 1,070906017 | 2,794664118 |
| 1 | 59 | 0,358096367 | 0,933684632 | 0,383530321 | 2,60735578 | 1,071025447 | 2,792544389 |
| 0 | 60 | 0,35836795 | 0,933580426 | 0,383864035 | 2,605089065 | 1,071144994 | 2,79042811 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

69°

| 21° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,35836795 | 0,933580426 | 0,383864035 | 2,605089065 | 1,071144994 | 2,79042811 |
| 59 | 1 | 0,358639502 | 0,933476142 | 0,384197823 | 2,602825782 | 1,071264658 | 2,788315271 |
| 58 | 2 | 0,358911024 | 0,933371778 | 0,384531686 | 2,600565924 | 1,07138444 | 2,786205865 |
| 57 | 3 | 0,359182516 | 0,933267336 | 0,384865624 | 2,598309482 | 1,071504339 | 2,784099884 |
| 56 | 4 | 0,359453977 | 0,933162815 | 0,385199636 | 2,596056449 | 1,071624356 | 2,781997319 |
| 55 | 5 | 0,359725408 | 0,933058214 | 0,385533724 | 2,593806815 | 1,07174449 | 2,779898163 |
| 54 | 6 | 0,359996808 | 0,932953535 | 0,385867886 | 2,591560574 | 1,071864742 | 2,777802407 |
| 53 | 7 | 0,360268178 | 0,932848777 | 0,386202123 | 2,589317718 | 1,071985112 | 2,775710043 |
| 52 | 8 | 0,360539518 | 0,932743939 | 0,386536436 | 2,587078237 | 1,072105599 | 2,773621063 |
| 51 | 9 | 0,360810826 | 0,932639023 | 0,386870823 | 2,584842124 | 1,072226205 | 2,77153546 |
| 50 | 10 | 0,361082105 | 0,932534028 | 0,387205286 | 2,582609372 | 1,072346928 | 2,769453225 |
| 49 | 11 | 0,361353353 | 0,932428954 | 0,387539824 | 2,580379971 | 1,072467769 | 2,767374351 |
| 48 | 12 | 0,36162457 | 0,932323801 | 0,387874438 | 2,578153915 | 1,072588728 | 2,765298828 |
| 47 | 13 | 0,361895757 | 0,932218569 | 0,388209127 | 2,575931196 | 1,072709805 | 2,763226651 |
| 46 | 14 | 0,362166913 | 0,932113259 | 0,388543891 | 2,573711804 | 1,072831 | 2,76115781 |
| 45 | 15 | 0,362438038 | 0,932007869 | 0,388878732 | 2,571495734 | 1,072952314 | 2,759092298 |
| 44 | 16 | 0,362709133 | 0,931902401 | 0,389213648 | 2,569282976 | 1,073073746 | 2,757030107 |
| 43 | 17 | 0,362980197 | 0,931796854 | 0,38954864 | 2,567073524 | 1,073195296 | 2,75497123 |
| 42 | 18 | 0,36325123 | 0,931691228 | 0,389883708 | 2,564867368 | 1,073316964 | 2,752915658 |
| 41 | 19 | 0,363522233 | 0,931585523 | 0,390218852 | 2,562664503 | 1,073438751 | 2,750863383 |
| 40 | 20 | 0,363793205 | 0,931479739 | 0,390554072 | 2,560464919 | 1,073560656 | 2,748814399 |
| 39 | 21 | 0,364064146 | 0,931373876 | 0,390889368 | 2,558268609 | 1,07368268 | 2,746768697 |
| 38 | 22 | 0,364335056 | 0,931267935 | 0,391224741 | 2,556075565 | 1,073804823 | 2,74472627 |
| 37 | 23 | 0,364605936 | 0,931161915 | 0,391560189 | 2,553885781 | 1,073927084 | 2,742687109 |
| 36 | 24 | 0,364876784 | 0,931055816 | 0,391895715 | 2,551699247 | 1,074049464 | 2,740651209 |
| 35 | 25 | 0,365147602 | 0,930949638 | 0,392231316 | 2,549515957 | 1,074171963 | 2,73861856 |
| 34 | 26 | 0,365418389 | 0,930843382 | 0,392566995 | 2,547335903 | 1,07429458 | 2,736589155 |
| 33 | 27 | 0,365689145 | 0,930737046 | 0,39290275 | 2,545159077 | 1,074417317 | 2,734562987 |
| 32 | 28 | 0,36595987 | 0,930630632 | 0,393238581 | 2,542985473 | 1,074540172 | 2,732540048 |
| 31 | 29 | 0,366230564 | 0,93052414 | 0,39357449 | 2,540815081 | 1,074663147 | 2,730520331 |
| 30 | 30 | 0,366501227 | 0,930417568 | 0,393910476 | 2,538647896 | 1,074786241 | 2,728503828 |
| 29 | 31 | 0,366771859 | 0,930310918 | 0,394246538 | 2,536483909 | 1,074909453 | 2,726490531 |
| 28 | 32 | 0,36704246 | 0,930204189 | 0,394582678 | 2,534323112 | 1,075032785 | 2,724480434 |
| 27 | 33 | 0,36731303 | 0,930097381 | 0,394918895 | 2,5321655 | 1,075156237 | 2,722473529 |
| 26 | 34 | 0,367583568 | 0,929990495 | 0,395255189 | 2,530011063 | 1,075279807 | 2,720469809 |
| 25 | 35 | 0,367854076 | 0,92988353 | 0,39559156 | 2,527859796 | 1,075403497 | 2,718469265 |
| 24 | 36 | 0,368124553 | 0,929776486 | 0,395928009 | 2,525711689 | 1,075527307 | 2,716471892 |
| 23 | 37 | 0,368394998 | 0,929669363 | 0,396264535 | 2,523566737 | 1,075651236 | 2,71447768 |
| 22 | 38 | 0,368665412 | 0,929562162 | 0,396601139 | 2,521424932 | 1,075775285 | 2,712486624 |
| 21 | 39 | 0,368935795 | 0,929454883 | 0,396937821 | 2,519286266 | 1,075899453 | 2,710498716 |
| 20 | 40 | 0,369206147 | 0,929347524 | 0,39727458 | 2,517150733 | 1,076023741 | 2,708513949 |
| 19 | 41 | 0,369476468 | 0,929240087 | 0,397611417 | 2,515018324 | 1,076148149 | 2,706532315 |
| 18 | 42 | 0,369746757 | 0,929132572 | 0,397948332 | 2,512889034 | 1,076272677 | 2,704553807 |
| 17 | 43 | 0,370017015 | 0,929024977 | 0,398285325 | 2,510762853 | 1,076397325 | 2,702578418 |
| 16 | 44 | 0,370287242 | 0,928917304 | 0,398622397 | 2,508639777 | 1,076522092 | 2,700606141 |
| 15 | 45 | 0,370557438 | 0,928809553 | 0,398959546 | 2,506519797 | 1,07664698 | 2,698636969 |
| 14 | 46 | 0,370827602 | 0,928701723 | 0,399296774 | 2,504402905 | 1,076771988 | 2,696670894 |
| 13 | 47 | 0,371097734 | 0,928593814 | 0,39963408 | 2,502289096 | 1,076897116 | 2,69470791 |
| 12 | 48 | 0,371367836 | 0,928485827 | 0,399971464 | 2,500178362 | 1,077022364 | 2,69274801 |
| 11 | 49 | 0,371637905 | 0,928377761 | 0,400308927 | 2,498070696 | 1,077147732 | 2,690791185 |
| 10 | 50 | 0,371907944 | 0,928269617 | 0,400646469 | 2,495966091 | 1,077273221 | 2,68883743 |
| 9 | 51 | 0,372177951 | 0,928161394 | 0,400984089 | 2,493864539 | 1,07739883 | 2,686886738 |
| 8 | 52 | 0,372447926 | 0,928053092 | 0,401321788 | 2,491766035 | 1,07752456 | 2,6849391 |
| 7 | 53 | 0,37271787 | 0,927944712 | 0,401659566 | 2,48967057 | 1,07765041 | 2,682994511 |
| 6 | 54 | 0,372987783 | 0,927836254 | 0,401997423 | 2,487578139 | 1,077776381 | 2,681052964 |
| 5 | 55 | 0,373257663 | 0,927727717 | 0,402335358 | 2,485488733 | 1,077902473 | 2,679114451 |
| 4 | 56 | 0,373527513 | 0,927619101 | 0,402673373 | 2,483402346 | 1,078028685 | 2,677178966 |
| 3 | 57 | 0,37379733 | 0,927510407 | 0,403011467 | 2,481318972 | 1,078155018 | 2,675246501 |
| 2 | 58 | 0,374067116 | 0,927401635 | 0,403349641 | 2,479238603 | 1,078281472 | 2,67331705 |
| 1 | 59 | 0,374336871 | 0,927292784 | 0,403687894 | 2,477161232 | 1,078408047 | 2,671390606 |
| 0 | 60 | 0,374606593 | 0,927183855 | 0,404026226 | 2,475086853 | 1,078534743 | 2,669467163 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

68°

| 22° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,374606593 | 0,927183855 | 0,404026226 | 2,475086853 | 1,078534743 | 2,669467163 |
| 59 | 1 | 0,374876284 | 0,927074847 | 0,404364638 | 2,473015459 | 1,07866156 | 2,667546712 |
| 58 | 2 | 0,375145944 | 0,92696576 | 0,404703129 | 2,470947043 | 1,078788498 | 2,665629249 |
| 57 | 3 | 0,375415571 | 0,926856596 | 0,4050417 | 2,468881599 | 1,078915557 | 2,663714765 |
| 56 | 4 | 0,375685167 | 0,926747352 | 0,405380351 | 2,466819118 | 1,079042737 | 2,661803254 |
| 55 | 5 | 0,375954731 | 0,926638031 | 0,405719082 | 2,464759596 | 1,079170039 | 2,65989471 |
| 54 | 6 | 0,376224263 | 0,926528631 | 0,406057892 | 2,462703025 | 1,079297462 | 2,657989125 |
| 53 | 7 | 0,376493763 | 0,926419152 | 0,406396783 | 2,460649398 | 1,079425007 | 2,656086493 |
| 52 | 8 | 0,376763232 | 0,926309596 | 0,406735754 | 2,458598709 | 1,079552673 | 2,654186808 |
| 51 | 9 | 0,377032669 | 0,926199961 | 0,407074805 | 2,456550951 | 1,079680461 | 2,652290062 |
| 50 | 10 | 0,377302073 | 0,926090247 | 0,407413937 | 2,454506118 | 1,07980837 | 2,65039625 |
| 49 | 11 | 0,377571446 | 0,925980455 | 0,407753148 | 2,452464202 | 1,079936401 | 2,648505364 |
| 48 | 12 | 0,377840787 | 0,925870585 | 0,408092441 | 2,450425198 | 1,080064554 | 2,646617398 |
| 47 | 13 | 0,378110096 | 0,925760636 | 0,408431814 | 2,448389098 | 1,080192828 | 2,644732345 |
| 46 | 14 | 0,378379373 | 0,925650609 | 0,408771267 | 2,446355897 | 1,080321225 | 2,642850199 |
| 45 | 15 | 0,378648617 | 0,925540504 | 0,409110801 | 2,444325587 | 1,080449743 | 2,640970953 |
| 44 | 16 | 0,37891783 | 0,92543032 | 0,409450417 | 2,442298163 | 1,080578384 | 2,639094602 |
| 43 | 17 | 0,379187011 | 0,925320059 | 0,409790112 | 2,440273617 | 1,080707146 | 2,637221137 |
| 42 | 18 | 0,37945616 | 0,925209718 | 0,410129889 | 2,438251943 | 1,080836031 | 2,635350553 |
| 41 | 19 | 0,379725276 | 0,9250993 | 0,410469748 | 2,436233135 | 1,080965038 | 2,633482844 |
| 40 | 20 | 0,37999436 | 0,924988803 | 0,410809687 | 2,434217187 | 1,081094167 | 2,631618003 |
| 39 | 21 | 0,380263413 | 0,924878228 | 0,411149707 | 2,432204091 | 1,081223419 | 2,629756023 |
| 38 | 22 | 0,380532433 | 0,924767575 | 0,411489809 | 2,430193842 | 1,081352793 | 2,627896899 |
| 37 | 23 | 0,380801421 | 0,924656843 | 0,411829992 | 2,428186433 | 1,08148229 | 2,626040623 |
| 36 | 24 | 0,381070376 | 0,924546034 | 0,412170257 | 2,426181858 | 1,081611909 | 2,62418719 |
| 35 | 25 | 0,3813393 | 0,924435146 | 0,412510603 | 2,42418011 | 1,08174165 | 2,622336593 |
| 34 | 26 | 0,381608191 | 0,924324179 | 0,412851032 | 2,422181183 | 1,081871515 | 2,620488826 |
| 33 | 27 | 0,38187705 | 0,924213135 | 0,413191541 | 2,420185071 | 1,082001502 | 2,618643882 |
| 32 | 28 | 0,382145876 | 0,924102012 | 0,413532133 | 2,418191768 | 1,082131612 | 2,616801756 |
| 31 | 29 | 0,382414671 | 0,923990812 | 0,413872807 | 2,416201267 | 1,082261845 | 2,61496244 |
| 30 | 30 | 0,382683432 | 0,923879533 | 0,414213562 | 2,414213562 | 1,0823922 | 2,61312593 |
| 29 | 31 | 0,382952162 | 0,923768175 | 0,4145544 | 2,412228647 | 1,082522679 | 2,611292218 |
| 28 | 32 | 0,383220859 | 0,92365674 | 0,41489532 | 2,410246516 | 1,082653281 | 2,609461298 |
| 27 | 33 | 0,383489524 | 0,923545226 | 0,415236323 | 2,408267162 | 1,082784006 | 2,607633165 |
| 26 | 34 | 0,383758156 | 0,923433635 | 0,415577407 | 2,406290579 | 1,082914854 | 2,605807812 |
| 25 | 35 | 0,384026755 | 0,923321965 | 0,415918574 | 2,404316762 | 1,083045826 | 2,603985232 |
| 24 | 36 | 0,384295323 | 0,923210217 | 0,416259824 | 2,402345703 | 1,083176921 | 2,602165421 |
| 23 | 37 | 0,384563857 | 0,923098391 | 0,416601157 | 2,400377397 | 1,083308139 | 2,600348371 |
| 22 | 38 | 0,38483236 | 0,922986487 | 0,416942572 | 2,398411839 | 1,083439481 | 2,598534077 |
| 21 | 39 | 0,385100829 | 0,922874505 | 0,41728407 | 2,39644902 | 1,083570946 | 2,596722532 |
| 20 | 40 | 0,385369266 | 0,922762444 | 0,417625651 | 2,394488937 | 1,083702535 | 2,59491373 |
| 19 | 41 | 0,385637671 | 0,922650306 | 0,417967314 | 2,392531582 | 1,083834247 | 2,593107667 |
| 18 | 42 | 0,385906042 | 0,922538089 | 0,418309061 | 2,39057695 | 1,083966084 | 2,591304334 |
| 17 | 43 | 0,386174381 | 0,922425795 | 0,418650892 | 2,388625034 | 1,084098044 | 2,589503727 |
| 16 | 44 | 0,386442688 | 0,922313422 | 0,418992805 | 2,386675829 | 1,084230128 | 2,587705839 |
| 15 | 45 | 0,386710962 | 0,922200972 | 0,419334802 | 2,384729328 | 1,084362336 | 2,585910665 |
| 14 | 46 | 0,386979203 | 0,922088443 | 0,419676882 | 2,382785526 | 1,084494668 | 2,584118198 |
| 13 | 47 | 0,387247411 | 0,921975836 | 0,420019046 | 2,380844417 | 1,084627124 | 2,582328433 |
| 12 | 48 | 0,387515586 | 0,921863152 | 0,420361293 | 2,378905995 | 1,084759705 | 2,580541364 |
| 11 | 49 | 0,387783729 | 0,921750389 | 0,420703624 | 2,376970253 | 1,084892409 | 2,578756984 |
| 10 | 50 | 0,388051839 | 0,921637548 | 0,421046039 | 2,375037187 | 1,085025238 | 2,576975289 |
| 9 | 51 | 0,388319916 | 0,921524629 | 0,421388538 | 2,373106789 | 1,085158191 | 2,575196271 |
| 8 | 52 | 0,38858796 | 0,921411633 | 0,421731121 | 2,371179055 | 1,085291269 | 2,573419925 |
| 7 | 53 | 0,388855972 | 0,921298558 | 0,422073787 | 2,369253979 | 1,085424471 | 2,571646246 |
| 6 | 54 | 0,38912395 | 0,921185406 | 0,422416538 | 2,367331554 | 1,085557798 | 2,569875228 |
| 5 | 55 | 0,389391896 | 0,921072175 | 0,422759373 | 2,365411775 | 1,085691249 | 2,568106864 |
| 4 | 56 | 0,389659808 | 0,920958867 | 0,423102293 | 2,363494636 | 1,085824825 | 2,566341149 |
| 3 | 57 | 0,389927688 | 0,92084548 | 0,423445297 | 2,361580131 | 1,085958526 | 2,564578078 |
| 2 | 58 | 0,390195534 | 0,920732016 | 0,423788385 | 2,359668255 | 1,086092351 | 2,562817644 |
| 1 | 59 | 0,390463348 | 0,920618474 | 0,424131558 | 2,357759002 | 1,086226302 | 2,561059841 |
| 0 | 60 | 0,390731128 | 0,920504853 | 0,424474816 | 2,355852366 | 1,086360377 | 2,559304665 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

67°

| 23° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,390731128 | 0,920504853 | 0,424474816 | 2,355852366 | 1,086360377 | 2,559304665 |
| 59 | 1 | 0,390998876 | 0,920391155 | 0,424818159 | 2,353948341 | 1,086494578 | 2,557552109 |
| 58 | 2 | 0,39126659 | 0,92027738 | 0,425161586 | 2,352046922 | 1,086628904 | 2,555802168 |
| 57 | 3 | 0,391534272 | 0,920163526 | 0,425505098 | 2,350148103 | 1,086763355 | 2,554054836 |
| 56 | 4 | 0,39180192 | 0,920049594 | 0,425848696 | 2,348251878 | 1,086897931 | 2,552310108 |
| 55 | 5 | 0,392069535 | 0,919935585 | 0,426192378 | 2,346358243 | 1,087032632 | 2,550567977 |
| 54 | 6 | 0,392337117 | 0,919821497 | 0,426536146 | 2,34446719 | 1,087167459 | 2,548828438 |
| 53 | 7 | 0,392604665 | 0,919707332 | 0,426879999 | 2,342578715 | 1,087302411 | 2,547091486 |
| 52 | 8 | 0,392872181 | 0,919593089 | 0,427223938 | 2,340692812 | 1,087437489 | 2,545357114 |
| 51 | 9 | 0,393139663 | 0,919478768 | 0,427567962 | 2,338809475 | 1,087572693 | 2,543625319 |
| 50 | 10 | 0,393407112 | 0,91936437 | 0,427912071 | 2,336928699 | 1,087708022 | 2,541896093 |
| 49 | 11 | 0,393674527 | 0,919249893 | 0,428256266 | 2,335050479 | 1,087843477 | 2,540169431 |
| 48 | 12 | 0,39394191 | 0,919135339 | 0,428600547 | 2,333174808 | 1,087979057 | 2,538445328 |
| 47 | 13 | 0,394209259 | 0,919020707 | 0,428944914 | 2,331301681 | 1,088114764 | 2,536723779 |
| 46 | 14 | 0,394476574 | 0,918905998 | 0,429289367 | 2,329431094 | 1,088250596 | 2,535004777 |
| 45 | 15 | 0,394743856 | 0,91879121 | 0,429633906 | 2,327563039 | 1,088386555 | 2,533288318 |
| 44 | 16 | 0,395011105 | 0,918676345 | 0,429978531 | 2,325697513 | 1,08852264 | 2,531574396 |
| 43 | 17 | 0,395278321 | 0,918561402 | 0,430323242 | 2,323834509 | 1,08865885 | 2,529863005 |
| 42 | 18 | 0,395545503 | 0,918446381 | 0,43066804 | 2,321974022 | 1,088795188 | 2,52815414 |
| 41 | 19 | 0,395812651 | 0,918331283 | 0,431012924 | 2,320116046 | 1,088931651 | 2,526447796 |
| 40 | 20 | 0,396079766 | 0,918216107 | 0,431357894 | 2,318260577 | 1,089068241 | 2,524743968 |
| 39 | 21 | 0,396346848 | 0,918100853 | 0,431702951 | 2,316407608 | 1,089204957 | 2,523042649 |
| 38 | 22 | 0,396613895 | 0,917985522 | 0,432048095 | 2,314557135 | 1,089341799 | 2,521343835 |
| 37 | 23 | 0,39688091 | 0,917870112 | 0,432393325 | 2,312709152 | 1,089478769 | 2,519647519 |
| 36 | 24 | 0,397147891 | 0,917754626 | 0,432738642 | 2,310863654 | 1,089615865 | 2,517953698 |
| 35 | 25 | 0,397414838 | 0,917639061 | 0,433084046 | 2,309020635 | 1,089753087 | 2,516262366 |
| 34 | 26 | 0,397681751 | 0,917523419 | 0,433429538 | 2,30718009 | 1,089890437 | 2,514573516 |
| 33 | 27 | 0,397948631 | 0,917407699 | 0,433775116 | 2,305342014 | 1,090027913 | 2,512887145 |
| 32 | 28 | 0,398215478 | 0,917291902 | 0,434120782 | 2,303506402 | 1,090165516 | 2,511203246 |
| 31 | 29 | 0,39848229 | 0,917176027 | 0,434466535 | 2,301673248 | 1,090303247 | 2,509521815 |
| 30 | 30 | 0,398749069 | 0,917060074 | 0,434812375 | 2,299842547 | 1,090441104 | 2,507842846 |
| 29 | 31 | 0,399015814 | 0,916944044 | 0,435158303 | 2,298014294 | 1,090579089 | 2,506166334 |
| 28 | 32 | 0,399282525 | 0,916827936 | 0,435504318 | 2,296188484 | 1,0907172 | 2,504492274 |
| 27 | 33 | 0,399549203 | 0,916711751 | 0,435850421 | 2,294365111 | 1,090855439 | 2,502820661 |
| 26 | 34 | 0,399815847 | 0,916595488 | 0,436196612 | 2,29254417 | 1,090993806 | 2,501151489 |
| 25 | 35 | 0,400082457 | 0,916479148 | 0,436542891 | 2,290725656 | 1,0911323 | 2,499484753 |
| 24 | 36 | 0,400349033 | 0,91636273 | 0,436889258 | 2,288909564 | 1,091270921 | 2,497820448 |
| 23 | 37 | 0,400615575 | 0,916246234 | 0,437235712 | 2,287095889 | 1,09140967 | 2,49615857 |
| 22 | 38 | 0,400882083 | 0,916129661 | 0,437582255 | 2,285284625 | 1,091548547 | 2,494499112 |
| 21 | 39 | 0,401148557 | 0,91601301 | 0,437928886 | 2,283475768 | 1,091687551 | 2,49284207 |
| 20 | 40 | 0,401414998 | 0,915896282 | 0,438275606 | 2,281669313 | 1,091826683 | 2,491187438 |
| 19 | 41 | 0,401681404 | 0,915779476 | 0,438622414 | 2,279865254 | 1,091965943 | 2,489535213 |
| 18 | 42 | 0,401947777 | 0,915662593 | 0,43896931 | 2,278063586 | 1,092105331 | 2,487885387 |
| 17 | 43 | 0,402214115 | 0,915545633 | 0,439316295 | 2,276264304 | 1,092244847 | 2,486237958 |
| 16 | 44 | 0,40248042 | 0,915428595 | 0,439663368 | 2,274467403 | 1,092384492 | 2,484592918 |
| 15 | 45 | 0,40274669 | 0,915311479 | 0,440010531 | 2,272672879 | 1,092524264 | 2,482950264 |
| 14 | 46 | 0,403012926 | 0,915194286 | 0,440357782 | 2,270880726 | 1,092664164 | 2,481309991 |
| 13 | 47 | 0,403279128 | 0,915077016 | 0,440705123 | 2,269090938 | 1,092804193 | 2,479672093 |
| 12 | 48 | 0,403545296 | 0,914959668 | 0,441052552 | 2,267303512 | 1,092944351 | 2,478036565 |
| 11 | 49 | 0,40381143 | 0,914842243 | 0,44140007 | 2,265518443 | 1,093084636 | 2,476403403 |
| 10 | 50 | 0,40407753 | 0,91472474 | 0,441747678 | 2,263735724 | 1,093225051 | 2,474772601 |
| 9 | 51 | 0,404343596 | 0,91460716 | 0,442095375 | 2,261955352 | 1,093365593 | 2,473144155 |
| 8 | 52 | 0,404609627 | 0,914489502 | 0,442443162 | 2,260177321 | 1,093506265 | 2,47151806 |
| 7 | 53 | 0,404875624 | 0,914371767 | 0,442791038 | 2,258401626 | 1,093647065 | 2,46989431 |
| 6 | 54 | 0,405141587 | 0,914253955 | 0,443139004 | 2,256628263 | 1,093787994 | 2,468272902 |
| 5 | 55 | 0,405407515 | 0,914136066 | 0,443487059 | 2,254857227 | 1,093929052 | 2,466653829 |
| 4 | 56 | 0,40567341 | 0,914018099 | 0,443835204 | 2,253088512 | 1,094070239 | 2,465037087 |
| 3 | 57 | 0,405939269 | 0,913900054 | 0,444183439 | 2,251322114 | 1,094211555 | 2,463422672 |
| 2 | 58 | 0,406205095 | 0,913781933 | 0,444531765 | 2,249558028 | 1,094353001 | 2,461810578 |
| 1 | 59 | 0,406470886 | 0,913663734 | 0,44488018 | 2,24779625 | 1,094494575 | 2,460200801 |
| 0 | 60 | 0,406736643 | 0,913545458 | 0,445228685 | 2,246036774 | 1,094636279 | 2,458593336 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

66°

| 24° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,406736643 | 0,913545458 | 0,445228685 | 2,246036774 | 1,094636279 | 2,458593336 |
| 59 | 1 | 0,407002365 | 0,913427104 | 0,445577281 | 2,244279595 | 1,094778111 | 2,456988177 |
| 58 | 2 | 0,407268053 | 0,913308673 | 0,445925967 | 2,24252471 | 1,094920074 | 2,455385321 |
| 57 | 3 | 0,407533707 | 0,913190165 | 0,446274744 | 2,240772112 | 1,095062166 | 2,453784762 |
| 56 | 4 | 0,407799326 | 0,91307158 | 0,446623611 | 2,239021798 | 1,095204387 | 2,452186496 |
| 55 | 5 | 0,40806491 | 0,912952917 | 0,446972569 | 2,237273762 | 1,095346738 | 2,450590518 |
| 54 | 6 | 0,40833046 | 0,912834177 | 0,447321617 | 2,235528 | 1,095489219 | 2,448996822 |
| 53 | 7 | 0,408595976 | 0,91271536 | 0,447670757 | 2,233784506 | 1,09563183 | 2,447405406 |
| 52 | 8 | 0,408861457 | 0,912596466 | 0,448019987 | 2,232043277 | 1,09577457 | 2,445816263 |
| 51 | 9 | 0,409126903 | 0,912477494 | 0,448369308 | 2,230304308 | 1,095917441 | 2,444229389 |
| 50 | 10 | 0,409392315 | 0,912358445 | 0,448718721 | 2,228567594 | 1,096060441 | 2,44264478 |
| 49 | 11 | 0,409657692 | 0,912239319 | 0,449068225 | 2,22683313 | 1,096203572 | 2,44106243 |
| 48 | 12 | 0,409923034 | 0,912120116 | 0,44941782 | 2,225100911 | 1,096346832 | 2,439482336 |
| 47 | 13 | 0,410188341 | 0,912000836 | 0,449767506 | 2,223370934 | 1,096490223 | 2,437904491 |
| 46 | 14 | 0,410453614 | 0,911881478 | 0,450117284 | 2,221643192 | 1,096633744 | 2,436328893 |
| 45 | 15 | 0,410718853 | 0,911762044 | 0,450467154 | 2,219917683 | 1,09677396 | 2,434755536 |
| 44 | 16 | 0,410984056 | 0,911642532 | 0,450817115 | 2,2181944 | 1,096921178 | 2,433184415 |
| 43 | 17 | 0,411249225 | 0,911522943 | 0,451167168 | 2,21647334 | 1,097065091 | 2,431615526 |
| 42 | 18 | 0,411514359 | 0,911403277 | 0,451517313 | 2,214754498 | 1,097209134 | 2,430048865 |
| 41 | 19 | 0,411779458 | 0,911283533 | 0,45186755 | 2,213037869 | 1,097353308 | 2,428484426 |
| 40 | 20 | 0,412044522 | 0,911163713 | 0,452217879 | 2,211323449 | 1,097497613 | 2,426922206 |
| 39 | 21 | 0,412309551 | 0,911043816 | 0,4525683 | 2,209611232 | 1,097642048 | 2,4253622 |
| 38 | 22 | 0,412574546 | 0,910923841 | 0,452918814 | 2,207901216 | 1,097786615 | 2,423804402 |
| 37 | 23 | 0,412839505 | 0,910803789 | 0,45326942 | 2,206193395 | 1,097931312 | 2,422248809 |
| 36 | 24 | 0,41310443 | 0,910683661 | 0,453620118 | 2,204487764 | 1,098076141 | 2,420695417 |
| 35 | 25 | 0,413369319 | 0,910563455 | 0,453970909 | 2,202784319 | 1,098221101 | 2,41914422 |
| 34 | 26 | 0,413634174 | 0,910443172 | 0,454321793 | 2,201083056 | 1,098366192 | 2,417595214 |
| 33 | 27 | 0,413898994 | 0,910322812 | 0,454672769 | 2,199383971 | 1,098511414 | 2,416048396 |
| 32 | 28 | 0,414163778 | 0,910202376 | 0,455023838 | 2,197687057 | 1,098656768 | 2,414503759 |
| 31 | 29 | 0,414428528 | 0,910081862 | 0,455375 | 2,195992312 | 1,098802253 | 2,4129613 |
| 30 | 30 | 0,414693243 | 0,909961271 | 0,455726256 | 2,194299731 | 1,09894787 | 2,411421015 |
| 29 | 31 | 0,414957922 | 0,909840603 | 0,456077604 | 2,192609309 | 1,099093618 | 2,409882898 |
| 28 | 32 | 0,415222566 | 0,909719858 | 0,456429045 | 2,190921042 | 1,099239498 | 2,408346946 |
| 27 | 33 | 0,415487176 | 0,909599036 | 0,45678058 | 2,189234926 | 1,09938551 | 2,406813155 |
| 26 | 34 | 0,41575175 | 0,909478138 | 0,457132209 | 2,187550956 | 1,099531653 | 2,405281519 |
| 25 | 35 | 0,416016289 | 0,909357162 | 0,457483931 | 2,185869127 | 1,099677929 | 2,403752034 |
| 24 | 36 | 0,416280792 | 0,909236109 | 0,457835746 | 2,184189436 | 1,099824336 | 2,402224697 |
| 23 | 37 | 0,416545261 | 0,909114979 | 0,458187655 | 2,182511878 | 1,099970876 | 2,400699502 |
| 22 | 38 | 0,416809694 | 0,908993773 | 0,458539658 | 2,180836449 | 1,100117547 | 2,399176446 |
| 21 | 39 | 0,417074092 | 0,908872489 | 0,458891755 | 2,179163144 | 1,100264351 | 2,397655523 |
| 20 | 40 | 0,417338454 | 0,908751129 | 0,459243946 | 2,177491959 | 1,100411288 | 2,396136731 |
| 19 | 41 | 0,417602782 | 0,908629692 | 0,459596231 | 2,17582289 | 1,100558356 | 2,394620064 |
| 18 | 42 | 0,417867074 | 0,908508178 | 0,45994861 | 2,174155933 | 1,100705557 | 2,393105518 |
| 17 | 43 | 0,41813133 | 0,908386586 | 0,460301084 | 2,172491082 | 1,100852891 | 2,391593089 |
| 16 | 44 | 0,418395552 | 0,908264919 | 0,460653652 | 2,170828334 | 1,101000357 | 2,390082772 |
| 15 | 45 | 0,418659738 | 0,908143174 | 0,461006314 | 2,169167685 | 1,101147956 | 2,388574564 |
| 14 | 46 | 0,418923888 | 0,908021352 | 0,461359071 | 2,167509131 | 1,101295688 | 2,38706846 |
| 13 | 47 | 0,419188003 | 0,907899454 | 0,461711923 | 2,165852666 | 1,101443553 | 2,385564456 |
| 12 | 48 | 0,419452082 | 0,907777479 | 0,46206487 | 2,164198288 | 1,10159155 | 2,384062547 |
| 11 | 49 | 0,419716126 | 0,907655426 | 0,462417911 | 2,162545991 | 1,101739681 | 2,38256273 |
| 10 | 50 | 0,419980135 | 0,907533298 | 0,462771048 | 2,160895771 | 1,101887945 | 2,381065 |
| 9 | 51 | 0,420244108 | 0,907411092 | 0,463124279 | 2,159247625 | 1,102036342 | 2,379569353 |
| 8 | 52 | 0,420508045 | 0,907288809 | 0,463477606 | 2,157601548 | 1,102184872 | 2,378075785 |
| 7 | 53 | 0,420771947 | 0,907166645 | 0,463831028 | 2,155957536 | 1,102333535 | 2,376584292 |
| 6 | 54 | 0,421035813 | 0,907044014 | 0,464184545 | 2,154315584 | 1,102482332 | 2,375094869 |
| 5 | 55 | 0,421299644 | 0,906921502 | 0,464538158 | 2,15267569 | 1,102631262 | 2,373607513 |
| 4 | 56 | 0,421563439 | 0,906798912 | 0,464891867 | 2,151037847 | 1,102780326 | 2,372122219 |
| 3 | 57 | 0,421827198 | 0,906676246 | 0,465245671 | 2,149402053 | 1,102929524 | 2,370638983 |
| 2 | 58 | 0,422090922 | 0,906553503 | 0,465599571 | 2,147768304 | 1,103078855 | 2,369157801 |
| 1 | 59 | 0,42235461 | 0,906430683 | 0,465953566 | 2,146136594 | 1,10322832 | 2,367678669 |
| 0 | 60 | 0,422618262 | 0,906307787 | 0,466307658 | 2,144506921 | 1,103377919 | 2,366201583 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

65°

| 25° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,422618262 | 0,906307787 | 0,466307658 | 2,144506921 | 1,103377919 | 2,366201583 |
| 59 | 1 | 0,422881878 | 0,906184814 | 0,466661846 | 2,142879279 | 1,103527652 | 2,364726539 |
| 58 | 2 | 0,423145459 | 0,906061764 | 0,46701613 | 2,141253665 | 1,103677519 | 2,363253532 |
| 57 | 3 | 0,423409003 | 0,905938638 | 0,46737051 | 2,139630075 | 1,10382752 | 2,36178256 |
| 56 | 4 | 0,423672512 | 0,905815435 | 0,467724987 | 2,138008505 | 1,103977655 | 2,360313617 |
| 55 | 5 | 0,423935986 | 0,905692155 | 0,46807956 | 2,136388951 | 1,104127925 | 2,358846699 |
| 54 | 6 | 0,424199423 | 0,905568799 | 0,46843423 | 2,134771408 | 1,104278329 | 2,357381803 |
| 53 | 7 | 0,424462824 | 0,905445366 | 0,468788996 | 2,133155873 | 1,104428867 | 2,355918925 |
| 52 | 8 | 0,424726189 | 0,905321857 | 0,469143859 | 2,131542342 | 1,10457954 | 2,35445806 |
| 51 | 9 | 0,424989519 | 0,90519827 | 0,469498819 | 2,12993081 | 1,104730348 | 2,352999204 |
| 50 | 10 | 0,425252812 | 0,905074608 | 0,469853876 | 2,128321274 | 1,10488129 | 2,351542355 |
| 49 | 11 | 0,42551607 | 0,904950868 | 0,47020903 | 2,12671373 | 1,105032367 | 2,350087506 |
| 48 | 12 | 0,425779292 | 0,904827052 | 0,470564281 | 2,125108173 | 1,105183579 | 2,348634656 |
| 47 | 13 | 0,426042477 | 0,90470316 | 0,47091963 | 2,1235046 | 1,105334926 | 2,347183799 |
| 46 | 14 | 0,426305627 | 0,904579191 | 0,471275075 | 2,121903007 | 1,105486407 | 2,345734932 |
| 45 | 15 | 0,42656874 | 0,904455145 | 0,471630619 | 2,12030339 | 1,105638024 | 2,344288051 |
| 44 | 16 | 0,426831817 | 0,904331023 | 0,47198626 | 2,118705745 | 1,105789776 | 2,342843152 |
| 43 | 17 | 0,427094858 | 0,904206825 | 0,472341998 | 2,117110068 | 1,105941664 | 2,341400231 |
| 42 | 18 | 0,427357863 | 0,90408255 | 0,472697834 | 2,115516356 | 1,106093686 | 2,339959284 |
| 41 | 19 | 0,427620832 | 0,903958198 | 0,473053769 | 2,113924603 | 1,106245844 | 2,338520307 |
| 40 | 20 | 0,427883765 | 0,90383377 | 0,473409801 | 2,112334807 | 1,106398138 | 2,337083297 |
| 39 | 21 | 0,428146661 | 0,903709265 | 0,473765931 | 2,110746963 | 1,106550567 | 2,335648249 |
| 38 | 22 | 0,428409522 | 0,903584684 | 0,474122159 | 2,109161068 | 1,106703132 | 2,33421516 |
| 37 | 23 | 0,428672346 | 0,903460027 | 0,474478486 | 2,107577118 | 1,106855832 | 2,332784025 |
| 36 | 24 | 0,428935133 | 0,903335293 | 0,474834911 | 2,105995109 | 1,107008669 | 2,331354842 |
| 35 | 25 | 0,429197885 | 0,903210482 | 0,475191435 | 2,104415036 | 1,107161641 | 2,329927605 |
| 34 | 26 | 0,4294606 | 0,903085596 | 0,475548057 | 2,102836898 | 1,107314749 | 2,328502312 |
| 33 | 27 | 0,429723279 | 0,902960632 | 0,475904777 | 2,101260688 | 1,107467994 | 2,327078959 |
| 32 | 28 | 0,429985921 | 0,902835593 | 0,476261597 | 2,099686405 | 1,107621374 | 2,325657541 |
| 31 | 29 | 0,430248527 | 0,902710477 | 0,476618515 | 2,098114043 | 1,107774891 | 2,324238055 |
| 30 | 30 | 0,430511097 | 0,902585284 | 0,476975533 | 2,096543599 | 1,107928544 | 2,322820497 |
| 29 | 31 | 0,43077363 | 0,902460016 | 0,477332649 | 2,09497507 | 1,108082334 | 2,321404864 |
| 28 | 32 | 0,431036127 | 0,90233467 | 0,477689865 | 2,093408451 | 1,10823626 | 2,319991151 |
| 27 | 33 | 0,431298587 | 0,902209249 | 0,47804718 | 2,091843739 | 1,108390322 | 2,318579356 |
| 26 | 34 | 0,431561011 | 0,902083751 | 0,478404594 | 2,09028093 | 1,108544521 | 2,317169473 |
| 25 | 35 | 0,431823398 | 0,901958177 | 0,478762108 | 2,088720021 | 1,108698857 | 2,3157615 |
| 24 | 36 | 0,432085749 | 0,901832526 | 0,479119721 | 2,087161007 | 1,10885333 | 2,314355432 |
| 23 | 37 | 0,432348063 | 0,9017068 | 0,479477435 | 2,085603885 | 1,10900794 | 2,312951267 |
| 22 | 38 | 0,432610341 | 0,901580997 | 0,479835247 | 2,084048651 | 1,109162686 | 2,311549 |
| 21 | 39 | 0,432872582 | 0,901455117 | 0,48019316 | 2,082495301 | 1,10931757 | 2,310148627 |
| 20 | 40 | 0,433134786 | 0,901329161 | 0,480551173 | 2,080943833 | 1,109472591 | 2,308750146 |
| 19 | 41 | 0,433396954 | 0,90120313 | 0,480909286 | 2,079394241 | 1,109627749 | 2,307353551 |
| 18 | 42 | 0,433659085 | 0,901077021 | 0,481267499 | 2,077846524 | 1,109783044 | 2,305958841 |
| 17 | 43 | 0,433921179 | 0,900950837 | 0,481625813 | 2,076300675 | 1,109938477 | 2,30456601 |
| 16 | 44 | 0,434183237 | 0,900824576 | 0,481984226 | 2,074756694 | 1,110094048 | 2,303175056 |
| 15 | 45 | 0,434445257 | 0,900698239 | 0,482342741 | 2,073214574 | 1,110249756 | 2,301785974 |
| 14 | 46 | 0,434707242 | 0,900571826 | 0,482701356 | 2,071674314 | 1,110405601 | 2,300398761 |
| 13 | 47 | 0,434969189 | 0,900445337 | 0,483060072 | 2,070135908 | 1,110561584 | 2,299013414 |
| 12 | 48 | 0,435231099 | 0,900318771 | 0,483418888 | 2,068599355 | 1,110717706 | 2,297629929 |
| 11 | 49 | 0,435492973 | 0,90019213 | 0,483777806 | 2,067064649 | 1,110873965 | 2,296248302 |
| 10 | 50 | 0,43575481 | 0,900065412 | 0,484136824 | 2,065531788 | 1,111030362 | 2,29486853 |
| 9 | 51 | 0,43601661 | 0,899938618 | 0,484495944 | 2,064000768 | 1,111186897 | 2,293490609 |
| 8 | 52 | 0,436278373 | 0,899811748 | 0,484855165 | 2,062471586 | 1,11134357 | 2,292114535 |
| 7 | 53 | 0,436540099 | 0,899684801 | 0,485214487 | 2,060944237 | 1,111500382 | 2,290740305 |
| 6 | 54 | 0,436801788 | 0,899557779 | 0,48557391 | 2,059418718 | 1,111657331 | 2,289367916 |
| 5 | 55 | 0,437063441 | 0,89943068 | 0,485933436 | 2,057895026 | 1,11181442 | 2,287997364 |
| 4 | 56 | 0,437325056 | 0,899303506 | 0,486293062 | 2,056373157 | 1,111971647 | 2,286628645 |
| 3 | 57 | 0,437586634 | 0,899176255 | 0,486652791 | 2,054853107 | 1,112129012 | 2,285261756 |
| 2 | 58 | 0,437848175 | 0,899048928 | 0,487012622 | 2,053334874 | 1,112286516 | 2,283896693 |
| 1 | 59 | 0,43810968 | 0,898921525 | 0,487372554 | 2,051818453 | 1,112444159 | 2,282533453 |
| 0 | 60 | 0,438371147 | 0,898794046 | 0,487732589 | 2,050303842 | 1,11260194 | 2,281172033 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

64°

| 26° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,438371147 | 0,898794046 | 0,487732589 | 2,050303842 | 1,11260194 | 2,281172033 |
| 59 | 1 | 0,438632577 | 0,898666491 | 0,488092725 | 2,048791035 | 1,112759861 | 2,279812428 |
| 58 | 2 | 0,43889397 | 0,89853886 | 0,488452964 | 2,047280031 | 1,112917921 | 2,278454636 |
| 57 | 3 | 0,439155326 | 0,898411153 | 0,488813306 | 2,045770826 | 1,113076119 | 2,277098652 |
| 56 | 4 | 0,439416644 | 0,89828337 | 0,489173749 | 2,044263416 | 1,113234457 | 2,275744475 |
| 55 | 5 | 0,439677926 | 0,898155511 | 0,489534296 | 2,042757797 | 1,113392935 | 2,274392099 |
| 54 | 6 | 0,43993917 | 0,898027576 | 0,489894945 | 2,041253967 | 1,113551551 | 2,273041521 |
| 53 | 7 | 0,440200377 | 0,897899565 | 0,490255697 | 2,039751922 | 1,113710307 | 2,271692739 |
| 52 | 8 | 0,440461547 | 0,897771478 | 0,490616552 | 2,038251658 | 1,113869203 | 2,270345749 |
| 51 | 9 | 0,440722679 | 0,897643315 | 0,49097751 | 2,036753172 | 1,114028238 | 2,269000547 |
| 50 | 10 | 0,440983774 | 0,897515076 | 0,491338571 | 2,03525646 | 1,114187413 | 2,26765713 |
| 49 | 11 | 0,441244832 | 0,897386761 | 0,491699735 | 2,03376152 | 1,114346728 | 2,266315494 |
| 48 | 12 | 0,441505853 | 0,89725837 | 0,492061002 | 2,032268347 | 1,114506182 | 2,264975637 |
| 47 | 13 | 0,441766836 | 0,897129903 | 0,492422373 | 2,030776939 | 1,114665777 | 2,263637554 |
| 46 | 14 | 0,442027782 | 0,89700136 | 0,492783848 | 2,029287292 | 1,114825511 | 2,262301243 |
| 45 | 15 | 0,44228869 | 0,896872742 | 0,493145426 | 2,027799402 | 1,114985386 | 2,260966699 |
| 44 | 16 | 0,442549561 | 0,896744047 | 0,493507108 | 2,026313267 | 1,115145401 | 2,25963392 |
| 43 | 17 | 0,442810395 | 0,896615277 | 0,493868894 | 2,024828882 | 1,115305556 | 2,258302903 |
| 42 | 18 | 0,443071191 | 0,89648643 | 0,494230783 | 2,023346245 | 1,115465852 | 2,256973644 |
| 41 | 19 | 0,443331949 | 0,896357508 | 0,494592777 | 2,021865353 | 1,115626288 | 2,255646139 |
| 40 | 20 | 0,44359267 | 0,89622851 | 0,494954875 | 2,020386201 | 1,115786865 | 2,254320386 |
| 39 | 21 | 0,443853354 | 0,896099437 | 0,495317077 | 2,018908787 | 1,115947583 | 2,25299638 |
| 38 | 22 | 0,444114 | 0,895970287 | 0,495679384 | 2,017433107 | 1,116108441 | 2,25167412 |
| 37 | 23 | 0,444374608 | 0,895841061 | 0,496041795 | 2,015959158 | 1,11626944 | 2,250353601 |
| 36 | 24 | 0,444635179 | 0,89571176 | 0,496404311 | 2,014486937 | 1,11643058 | 2,24903482 |
| 35 | 25 | 0,444895712 | 0,895582383 | 0,496766931 | 2,01301644 | 1,116591861 | 2,247717773 |
| 34 | 26 | 0,445156208 | 0,89545293 | 0,497129657 | 2,011547665 | 1,116753283 | 2,246402459 |
| 33 | 27 | 0,445416666 | 0,895323402 | 0,497492487 | 2,010080607 | 1,116914847 | 2,245088873 |
| 32 | 28 | 0,445677086 | 0,895193798 | 0,497855422 | 2,008615264 | 1,117076551 | 2,243777012 |
| 31 | 29 | 0,445937468 | 0,895064117 | 0,498218462 | 2,007151632 | 1,117238397 | 2,242466872 |
| 30 | 30 | 0,446197813 | 0,894934362 | 0,498581608 | 2,005689708 | 1,117400385 | 2,241158452 |
| 29 | 31 | 0,44645812 | 0,89480453 | 0,498944859 | 2,004229489 | 1,117562514 | 2,239851746 |
| 28 | 32 | 0,446718389 | 0,894674623 | 0,499308215 | 2,002770972 | 1,117724785 | 2,238546753 |
| 27 | 33 | 0,446978621 | 0,89454464 | 0,499671677 | 2,001314153 | 1,117887197 | 2,237243469 |
| 26 | 34 | 0,447238814 | 0,894414581 | 0,500035245 | 1,99985903 | 1,118049751 | 2,235941891 |
| 25 | 35 | 0,44749897 | 0,894284447 | 0,500398918 | 1,998405598 | 1,118212447 | 2,234642015 |
| 24 | 36 | 0,447759088 | 0,894154237 | 0,500762698 | 1,996953856 | 1,118375286 | 2,233343839 |
| 23 | 37 | 0,448019168 | 0,894023951 | 0,501126583 | 1,995503798 | 1,118538266 | 2,232047358 |
| 22 | 38 | 0,44827921 | 0,89389359 | 0,501490574 | 1,994055424 | 1,118701388 | 2,230752571 |
| 21 | 39 | 0,448539214 | 0,893763153 | 0,501854672 | 1,992608728 | 1,118864653 | 2,229459474 |
| 20 | 40 | 0,44879918 | 0,89363264 | 0,502218876 | 1,991163709 | 1,11902806 | 2,228168063 |
| 19 | 41 | 0,449059108 | 0,893502052 | 0,502583186 | 1,989720363 | 1,11919161 | 2,226878336 |
| 18 | 42 | 0,449318999 | 0,893371388 | 0,502947603 | 1,988278686 | 1,119355302 | 2,225590289 |
| 17 | 43 | 0,449578851 | 0,893240649 | 0,503312127 | 1,986838677 | 1,119519137 | 2,22430392 |
| 16 | 44 | 0,449838665 | 0,893109834 | 0,503676757 | 1,98540033 | 1,119683114 | 2,223019224 |
| 15 | 45 | 0,450098441 | 0,892978943 | 0,504041494 | 1,983963644 | 1,119847234 | 2,2217362 |
| 14 | 46 | 0,450358179 | 0,892847977 | 0,504406338 | 1,982528616 | 1,120011497 | 2,220454844 |
| 13 | 47 | 0,450617879 | 0,892716936 | 0,50477129 | 1,981095241 | 1,120175904 | 2,219175152 |
| 12 | 48 | 0,450877541 | 0,892585818 | 0,505136348 | 1,979663518 | 1,120340453 | 2,217897122 |
| 11 | 49 | 0,451137164 | 0,892454626 | 0,505501514 | 1,978233443 | 1,120505145 | 2,216620751 |
| 10 | 50 | 0,45139675 | 0,892323357 | 0,505866787 | 1,976805012 | 1,120669981 | 2,215346036 |
| 9 | 51 | 0,451656297 | 0,892192014 | 0,506232168 | 1,975378224 | 1,12083496 | 2,214072973 |
| 8 | 52 | 0,451915806 | 0,892060595 | 0,506597656 | 1,973953074 | 1,121000082 | 2,212801559 |
| 7 | 53 | 0,452175277 | 0,8919291 | 0,506963252 | 1,97252956 | 1,121165348 | 2,211531792 |
| 6 | 54 | 0,452434709 | 0,89179753 | 0,507328956 | 1,971107679 | 1,121330758 | 2,210263668 |
| 5 | 55 | 0,452694104 | 0,891665884 | 0,507694767 | 1,969687427 | 1,121496312 | 2,208997184 |
| 4 | 56 | 0,452953459 | 0,891534163 | 0,508060687 | 1,968268802 | 1,121662009 | 2,207732338 |
| 3 | 57 | 0,453212777 | 0,891402366 | 0,508426715 | 1,9668518 | 1,12182785 | 2,206469126 |
| 2 | 58 | 0,453472056 | 0,891270494 | 0,508792852 | 1,965436419 | 1,121993835 | 2,205207545 |
| 1 | 59 | 0,453731297 | 0,891138547 | 0,509159096 | 1,964022655 | 1,122159964 | 2,203947592 |
| 0 | 60 | 0,4539905 | 0,891006524 | 0,509525449 | 1,962610506 | 1,122326238 | 2,202689265 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

63°

| 27° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,4539905 | 0,891006524 | 0,509525449 | 1,962610506 | 1,122326238 | 2,202689265 |
| 59 | 1 | 0,454249664 | 0,890874426 | 0,509891911 | 1,961199968 | 1,122492655 | 2,201432559 |
| 58 | 2 | 0,454508789 | 0,890742252 | 0,510258482 | 1,959791038 | 1,122659217 | 2,200177473 |
| 57 | 3 | 0,454767877 | 0,890610004 | 0,510625161 | 1,958383715 | 1,122825924 | 2,198924004 |
| 56 | 4 | 0,455026925 | 0,890477679 | 0,51099195 | 1,956977993 | 1,122992775 | 2,197672147 |
| 55 | 5 | 0,455285936 | 0,89034528 | 0,511358847 | 1,955573871 | 1,123159771 | 2,196421901 |
| 54 | 6 | 0,455544907 | 0,890212805 | 0,511725853 | 1,954171346 | 1,123326911 | 2,195173262 |
| 53 | 7 | 0,45580384 | 0,890080254 | 0,512092969 | 1,952770415 | 1,123494196 | 2,193926228 |
| 52 | 8 | 0,456062735 | 0,889947629 | 0,512460195 | 1,951371074 | 1,123661627 | 2,192680795 |
| 51 | 9 | 0,456321591 | 0,889814928 | 0,512827529 | 1,94997332 | 1,123829202 | 2,19143696 |
| 50 | 10 | 0,456580408 | 0,889682152 | 0,513194974 | 1,948577152 | 1,123996922 | 2,190194721 |
| 49 | 11 | 0,456839187 | 0,8895493 | 0,513562528 | 1,947182565 | 1,124164788 | 2,188954075 |
| 48 | 12 | 0,457097927 | 0,889416373 | 0,513930192 | 1,945789558 | 1,124332798 | 2,187715019 |
| 47 | 13 | 0,457356628 | 0,889283371 | 0,514297965 | 1,944398126 | 1,124500955 | 2,186477549 |
| 46 | 14 | 0,457615291 | 0,889150294 | 0,514665849 | 1,943008267 | 1,124669256 | 2,185241663 |
| 45 | 15 | 0,457873915 | 0,889017141 | 0,515033843 | 1,941619979 | 1,124837704 | 2,184007359 |
| 44 | 16 | 0,4581325 | 0,888883914 | 0,515401948 | 1,940233258 | 1,125006297 | 2,182774632 |
| 43 | 17 | 0,458391047 | 0,888750611 | 0,515770162 | 1,938848101 | 1,125175035 | 2,181543481 |
| 42 | 18 | 0,458649554 | 0,888617233 | 0,516138488 | 1,937464506 | 1,12534392 | 2,180313902 |
| 41 | 19 | 0,458908023 | 0,888483779 | 0,516506923 | 1,93608247 | 1,125512951 | 2,179085893 |
| 40 | 20 | 0,459166453 | 0,888350251 | 0,51687547 | 1,934701989 | 1,125682127 | 2,177859451 |
| 39 | 21 | 0,459424845 | 0,888216647 | 0,517244127 | 1,933323062 | 1,12585145 | 2,176634572 |
| 38 | 22 | 0,459683197 | 0,888082968 | 0,517612896 | 1,931945684 | 1,126020919 | 2,175411255 |
| 37 | 23 | 0,45994151 | 0,887949214 | 0,517981775 | 1,930569854 | 1,126190534 | 2,174189495 |
| 36 | 24 | 0,460199785 | 0,887815385 | 0,518350766 | 1,929195568 | 1,126360296 | 2,172969291 |
| 35 | 25 | 0,46045802 | 0,887681481 | 0,518719868 | 1,927822824 | 1,126530204 | 2,171750639 |
| 34 | 26 | 0,460716217 | 0,887547502 | 0,519089081 | 1,926451618 | 1,126700259 | 2,170533537 |
| 33 | 27 | 0,460974375 | 0,887413447 | 0,519458406 | 1,925081948 | 1,126870461 | 2,169317982 |
| 32 | 28 | 0,461232493 | 0,887279318 | 0,519827842 | 1,923713812 | 1,127040809 | 2,168103971 |
| 31 | 29 | 0,461490573 | 0,887145113 | 0,52019739 | 1,922347206 | 1,127211305 | 2,166891501 |
| 30 | 30 | 0,461748613 | 0,887010833 | 0,520567051 | 1,920982127 | 1,127381947 | 2,16568057 |
| 29 | 31 | 0,462006615 | 0,886876478 | 0,520936823 | 1,919618573 | 1,127552736 | 2,164471175 |
| 28 | 32 | 0,462264577 | 0,886742049 | 0,521306707 | 1,918256541 | 1,127723673 | 2,163263312 |
| 27 | 33 | 0,4625225 | 0,886607544 | 0,521676703 | 1,916896028 | 1,127894757 | 2,16205698 |
| 26 | 34 | 0,462780384 | 0,886472964 | 0,522046812 | 1,915537032 | 1,128065988 | 2,160852175 |
| 25 | 35 | 0,463038229 | 0,886338309 | 0,522417033 | 1,914179549 | 1,128237367 | 2,159648894 |
| 24 | 36 | 0,463296035 | 0,886203579 | 0,522787366 | 1,912823577 | 1,128408893 | 2,158447136 |
| 23 | 37 | 0,463553802 | 0,886068774 | 0,523157812 | 1,911469114 | 1,128580567 | 2,157246896 |
| 22 | 38 | 0,463811529 | 0,885933895 | 0,523528371 | 1,910116155 | 1,128752389 | 2,156048173 |
| 21 | 39 | 0,464069217 | 0,88579894 | 0,523899043 | 1,9087647 | 1,128924359 | 2,154850964 |
| 20 | 40 | 0,464326866 | 0,88566391 | 0,524269828 | 1,907414744 | 1,129096476 | 2,153655266 |
| 19 | 41 | 0,464584475 | 0,885528805 | 0,524640726 | 1,906066285 | 1,129268742 | 2,152461076 |
| 18 | 42 | 0,464842046 | 0,885393626 | 0,525011737 | 1,904719321 | 1,129441156 | 2,151268391 |
| 17 | 43 | 0,465099577 | 0,885258371 | 0,525382862 | 1,903373849 | 1,129613718 | 2,15007721 |
| 16 | 44 | 0,465357068 | 0,885123042 | 0,5257541 | 1,902029866 | 1,129786428 | 2,148887528 |
| 15 | 45 | 0,46561452 | 0,884987637 | 0,526125451 | 1,900687369 | 1,129959287 | 2,147699344 |
| 14 | 46 | 0,465871933 | 0,884852158 | 0,526496917 | 1,899346356 | 1,130132295 | 2,146512655 |
| 13 | 47 | 0,466129306 | 0,884716604 | 0,526868496 | 1,898006823 | 1,130305451 | 2,145327458 |
| 12 | 48 | 0,46638664 | 0,884580975 | 0,527240189 | 1,896668769 | 1,130478755 | 2,14414375 |
| 11 | 49 | 0,466643935 | 0,884445271 | 0,527611996 | 1,895332191 | 1,130652209 | 2,142961529 |
| 10 | 50 | 0,46690119 | 0,884309493 | 0,527983917 | 1,893997086 | 1,130825812 | 2,141780792 |
| 9 | 51 | 0,467158405 | 0,884173639 | 0,528355952 | 1,892663451 | 1,130999563 | 2,140601537 |
| 8 | 52 | 0,467415581 | 0,884037711 | 0,528728102 | 1,891331284 | 1,131173464 | 2,13942376 |
| 7 | 53 | 0,467672717 | 0,883901708 | 0,529100366 | 1,890000581 | 1,131347514 | 2,13824746 |
| 6 | 54 | 0,467929814 | 0,88376563 | 0,529472745 | 1,888671342 | 1,131521713 | 2,137072633 |
| 5 | 55 | 0,468186871 | 0,883629477 | 0,529845239 | 1,887343562 | 1,131696062 | 2,135899276 |
| 4 | 56 | 0,468443889 | 0,88349325 | 0,530217847 | 1,886017239 | 1,13187056 | 2,134727389 |
| 3 | 57 | 0,468700867 | 0,883356948 | 0,530590571 | 1,88469237 | 1,132045208 | 2,133556967 |
| 2 | 58 | 0,468957805 | 0,883220571 | 0,530963409 | 1,883368953 | 1,132220006 | 2,132388008 |
| 1 | 59 | 0,469214704 | 0,883084119 | 0,531336363 | 1,882046986 | 1,132394953 | 2,131220509 |
| 0 | 60 | 0,469471563 | 0,882947593 | 0,531709432 | 1,880726465 | 1,132570051 | 2,130054468 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

62°

| 28° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,469471563 | 0,882947593 | 0,531709432 | 1,880726465 | 1,132570051 | 2,130054468 |
| 59 | 1 | 0,469728382 | 0,882810992 | 0,532082616 | 1,879407389 | 1,132745298 | 2,128889883 |
| 58 | 2 | 0,469985161 | 0,882674316 | 0,532455916 | 1,878089754 | 1,132920696 | 2,12772675 |
| 57 | 3 | 0,470241901 | 0,882537565 | 0,532829332 | 1,876773557 | 1,133096243 | 2,126565067 |
| 56 | 4 | 0,470498601 | 0,88240074 | 0,533202863 | 1,875458797 | 1,133271941 | 2,125404832 |
| 55 | 5 | 0,470755261 | 0,88226384 | 0,53357651 | 1,874145471 | 1,13344779 | 2,124246042 |
| 54 | 6 | 0,471011881 | 0,882126866 | 0,533950273 | 1,872833576 | 1,133623789 | 2,123088695 |
| 53 | 7 | 0,471268462 | 0,881989817 | 0,534324153 | 1,87152311 | 1,133799938 | 2,121932787 |
| 52 | 8 | 0,471525002 | 0,881852693 | 0,534698148 | 1,87021407 | 1,133976239 | 2,120778316 |
| 51 | 9 | 0,471781503 | 0,881715495 | 0,53507226 | 1,868906453 | 1,13415269 | 2,119625281 |
| 50 | 10 | 0,472037963 | 0,881578222 | 0,535446489 | 1,867600257 | 1,134329292 | 2,118473677 |
| 49 | 11 | 0,472294384 | 0,881440874 | 0,535820834 | 1,86629548 | 1,134506045 | 2,117323503 |
| 48 | 12 | 0,472550765 | 0,881303452 | 0,536195295 | 1,864992118 | 1,134682949 | 2,116174757 |
| 47 | 13 | 0,472807106 | 0,881165955 | 0,536569874 | 1,86369017 | 1,134860004 | 2,115027435 |
| 46 | 14 | 0,473063406 | 0,881028384 | 0,53694457 | 1,862389633 | 1,135037211 | 2,113881536 |
| 45 | 15 | 0,473319667 | 0,880890738 | 0,537319382 | 1,861090505 | 1,135214569 | 2,112737056 |
| 44 | 16 | 0,473575888 | 0,880753018 | 0,537694312 | 1,859792782 | 1,135392079 | 2,111593993 |
| 43 | 17 | 0,473832069 | 0,880615223 | 0,538069359 | 1,858496462 | 1,13556974 | 2,110452345 |
| 42 | 18 | 0,474088209 | 0,880477354 | 0,538444523 | 1,857201543 | 1,135747553 | 2,109312109 |
| 41 | 19 | 0,474344309 | 0,88033941 | 0,538819806 | 1,855908023 | 1,135925518 | 2,108173283 |
| 40 | 20 | 0,47460037 | 0,880201391 | 0,539195205 | 1,854615899 | 1,136103635 | 2,107035864 |
| 39 | 21 | 0,47485639 | 0,880063298 | 0,539570723 | 1,853325167 | 1,136281904 | 2,10589985 |
| 38 | 22 | 0,47511237 | 0,879925131 | 0,539946358 | 1,852035827 | 1,136460325 | 2,104765238 |
| 37 | 23 | 0,47536831 | 0,879786889 | 0,540322111 | 1,850747876 | 1,136638898 | 2,103632026 |
| 36 | 24 | 0,475624209 | 0,879648573 | 0,540697983 | 1,84946131 | 1,136817623 | 2,102500211 |
| 35 | 25 | 0,475880068 | 0,879510182 | 0,541073973 | 1,848176128 | 1,136996501 | 2,101369792 |
| 34 | 26 | 0,476135887 | 0,879371717 | 0,541450081 | 1,846892327 | 1,137175532 | 2,100240764 |
| 33 | 27 | 0,476391666 | 0,879233178 | 0,541826308 | 1,845609905 | 1,137354715 | 2,099113127 |
| 32 | 28 | 0,476647404 | 0,879094564 | 0,542202653 | 1,844328859 | 1,137534051 | 2,097986878 |
| 31 | 29 | 0,476903103 | 0,878955875 | 0,542579117 | 1,843049187 | 1,13771354 | 2,096862014 |
| 30 | 30 | 0,47715876 | 0,878817113 | 0,5429557 | 1,841770886 | 1,137893181 | 2,095738533 |
| 29 | 31 | 0,477414378 | 0,878678276 | 0,543332401 | 1,840493954 | 1,138072976 | 2,094616432 |
| 28 | 32 | 0,477669955 | 0,878539364 | 0,543709222 | 1,839218389 | 1,138252924 | 2,093495709 |
| 27 | 33 | 0,477925491 | 0,878400379 | 0,544086162 | 1,837944188 | 1,138433025 | 2,092376361 |
| 26 | 34 | 0,478180987 | 0,878261318 | 0,544463222 | 1,836671348 | 1,138613279 | 2,091258387 |
| 25 | 35 | 0,478436443 | 0,878122184 | 0,544840401 | 1,835399868 | 1,138793687 | 2,090141784 |
| 24 | 36 | 0,478691858 | 0,877982975 | 0,545217699 | 1,834129745 | 1,138974249 | 2,089026549 |
| 23 | 37 | 0,478947233 | 0,877843692 | 0,545595118 | 1,832860977 | 1,139154964 | 2,08791268 |
| 22 | 38 | 0,479202567 | 0,877704335 | 0,545972656 | 1,83159356 | 1,139335833 | 2,086800175 |
| 21 | 39 | 0,47945786 | 0,877564904 | 0,546350313 | 1,830327494 | 1,139516856 | 2,085689031 |
| 20 | 40 | 0,479713113 | 0,877425398 | 0,546728091 | 1,829062775 | 1,139698033 | 2,084579246 |
| 19 | 41 | 0,479968326 | 0,877285818 | 0,54710599 | 1,827799401 | 1,139879364 | 2,083470818 |
| 18 | 42 | 0,480223497 | 0,877146164 | 0,547484008 | 1,826537369 | 1,140060849 | 2,082363744 |
| 17 | 43 | 0,480478629 | 0,877006435 | 0,547862147 | 1,825276678 | 1,140242488 | 2,081258022 |
| 16 | 44 | 0,480733719 | 0,876866633 | 0,548240407 | 1,824017325 | 1,140424282 | 2,080153649 |
| 15 | 45 | 0,480988769 | 0,876726756 | 0,548618787 | 1,822759308 | 1,14060623 | 2,079050624 |
| 14 | 46 | 0,481243778 | 0,876586805 | 0,548997288 | 1,821502624 | 1,140788333 | 2,077948943 |
| 13 | 47 | 0,481498746 | 0,876446779 | 0,549375909 | 1,820247271 | 1,140970591 | 2,076848605 |
| 12 | 48 | 0,481753674 | 0,87630668 | 0,549754652 | 1,818993247 | 1,141153004 | 2,075749608 |
| 11 | 49 | 0,482008561 | 0,876166507 | 0,550133516 | 1,817740549 | 1,141335571 | 2,074651948 |
| 10 | 50 | 0,482263407 | 0,876026259 | 0,550512501 | 1,816489176 | 1,141518293 | 2,073555624 |
| 9 | 51 | 0,482518212 | 0,875885937 | 0,550891608 | 1,815239124 | 1,141701171 | 2,072460633 |
| 8 | 52 | 0,482772977 | 0,875745541 | 0,551270836 | 1,813990391 | 1,141884204 | 2,071366973 |
| 7 | 53 | 0,483027701 | 0,875605071 | 0,551650186 | 1,812742976 | 1,142067392 | 2,070274643 |
| 6 | 54 | 0,483282383 | 0,875464527 | 0,552029658 | 1,811496875 | 1,142250736 | 2,069183638 |
| 5 | 55 | 0,483537025 | 0,875323909 | 0,552409251 | 1,810252087 | 1,142434235 | 2,068093958 |
| 4 | 56 | 0,483791626 | 0,875183217 | 0,552788967 | 1,809008609 | 1,14261789 | 2,067005599 |
| 3 | 57 | 0,484046186 | 0,87504245 | 0,553168804 | 1,807766439 | 1,1428017 | 2,065918561 |
| 2 | 58 | 0,484300705 | 0,87490161 | 0,553548764 | 1,806525575 | 1,142985667 | 2,064832839 |
| 1 | 59 | 0,484555183 | 0,874760696 | 0,553928847 | 1,805286015 | 1,143169789 | 2,063748433 |
| 0 | 60 | 0,48480962 | 0,874619707 | 0,554309051 | 1,804047755 | 1,143354068 | 2,06266534 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

61°

| 29° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,48480962 | 0,874619707 | 0,554309051 | 1,804047755 | 1,143354068 | 2,06266534 |
| 59 | 1 | 0,485064016 | 0,874478645 | 0,554689379 | 1,802810795 | 1,143538503 | 2,061583557 |
| 58 | 2 | 0,485318371 | 0,874337508 | 0,555069829 | 1,801575131 | 1,143723094 | 2,060503082 |
| 57 | 3 | 0,485572685 | 0,874196298 | 0,555450402 | 1,800340762 | 1,143907841 | 2,059423914 |
| 56 | 4 | 0,485826958 | 0,874055014 | 0,555831098 | 1,799107684 | 1,144092745 | 2,05834605 |
| 55 | 5 | 0,48608119 | 0,873913655 | 0,556211917 | 1,797875897 | 1,144277806 | 2,057269487 |
| 54 | 6 | 0,48633538 | 0,873772223 | 0,55659286 | 1,796645398 | 1,144463023 | 2,056194224 |
| 53 | 7 | 0,48658953 | 0,873630717 | 0,556973926 | 1,795416184 | 1,144648397 | 2,055120258 |
| 52 | 8 | 0,486843638 | 0,873489137 | 0,557355115 | 1,794188253 | 1,144833929 | 2,054047587 |
| 51 | 9 | 0,487097705 | 0,873347483 | 0,557736428 | 1,792961604 | 1,145019617 | 2,052976208 |
| 50 | 10 | 0,487351731 | 0,873205755 | 0,558117865 | 1,791736233 | 1,145205462 | 2,051906121 |
| 49 | 11 | 0,487605716 | 0,873063953 | 0,558499425 | 1,790512139 | 1,145391465 | 2,050837321 |
| 48 | 12 | 0,487859659 | 0,872922077 | 0,55888111 | 1,789289319 | 1,145577625 | 2,049769808 |
| 47 | 13 | 0,488113561 | 0,872780128 | 0,559262918 | 1,788067772 | 1,145763942 | 2,048703579 |
| 46 | 14 | 0,488367422 | 0,872638104 | 0,559644851 | 1,786847494 | 1,145950418 | 2,047638632 |
| 45 | 15 | 0,488621241 | 0,872496007 | 0,560026908 | 1,785628485 | 1,14613705 | 2,046574965 |
| 44 | 16 | 0,48887502 | 0,872353836 | 0,56040909 | 1,784410741 | 1,146323841 | 2,045512575 |
| 43 | 17 | 0,489128756 | 0,872211591 | 0,560791397 | 1,783194261 | 1,14651079 | 2,04445146 |
| 42 | 18 | 0,489382452 | 0,872069272 | 0,561173828 | 1,781979042 | 1,146697896 | 2,043391618 |
| 41 | 19 | 0,489636106 | 0,87192688 | 0,561556384 | 1,780765082 | 1,146885161 | 2,042333048 |
| 40 | 20 | 0,489889718 | 0,871784414 | 0,561939065 | 1,779552379 | 1,147072584 | 2,041275746 |
| 39 | 21 | 0,490143289 | 0,871641874 | 0,562321871 | 1,778340931 | 1,147260165 | 2,040219711 |
| 38 | 22 | 0,490396819 | 0,87149926 | 0,562704802 | 1,777130736 | 1,147447905 | 2,03916494 |
| 37 | 23 | 0,490650307 | 0,871356572 | 0,563087859 | 1,775921792 | 1,147635803 | 2,038111432 |
| 36 | 24 | 0,490903754 | 0,871213811 | 0,563471042 | 1,774714096 | 1,14782386 | 2,037059184 |
| 35 | 25 | 0,491157159 | 0,871070976 | 0,56385435 | 1,773507646 | 1,148012076 | 2,036008195 |
| 34 | 26 | 0,491410522 | 0,870928067 | 0,564237783 | 1,77230244 | 1,148200451 | 2,034958461 |
| 33 | 27 | 0,491663844 | 0,870785085 | 0,564621343 | 1,771098476 | 1,148388985 | 2,033909982 |
| 32 | 28 | 0,491917124 | 0,870642029 | 0,565005028 | 1,769895753 | 1,148577678 | 2,032862754 |
| 31 | 29 | 0,492170363 | 0,870498899 | 0,56538884 | 1,768694267 | 1,14876653 | 2,031816775 |
| 30 | 30 | 0,49242356 | 0,870355696 | 0,565772778 | 1,767494016 | 1,148955542 | 2,030772045 |
| 29 | 31 | 0,492676715 | 0,870212419 | 0,566156843 | 1,766294999 | 1,149144713 | 2,029728559 |
| 28 | 32 | 0,492929829 | 0,870069068 | 0,566541034 | 1,765097214 | 1,149334043 | 2,028686318 |
| 27 | 33 | 0,493182901 | 0,869925644 | 0,566925351 | 1,763900658 | 1,149523533 | 2,027645317 |
| 26 | 34 | 0,493435931 | 0,869782146 | 0,567309795 | 1,76270533 | 1,149713183 | 2,026605556 |
| 25 | 35 | 0,49368892 | 0,869638575 | 0,567694367 | 1,761511226 | 1,149902993 | 2,025567032 |
| 24 | 36 | 0,493941867 | 0,86949493 | 0,568079065 | 1,760318346 | 1,150092963 | 2,024529743 |
| 23 | 37 | 0,494194772 | 0,869351211 | 0,56846389 | 1,759126686 | 1,150283093 | 2,023493686 |
| 22 | 38 | 0,494447635 | 0,869207419 | 0,568848843 | 1,757936246 | 1,150473384 | 2,022458861 |
| 21 | 39 | 0,494700456 | 0,869063553 | 0,569233923 | 1,756747022 | 1,150663834 | 2,021425265 |
| 20 | 40 | 0,494953235 | 0,868919614 | 0,569619131 | 1,755559014 | 1,150854445 | 2,020392895 |
| 19 | 41 | 0,495205973 | 0,868775601 | 0,570004466 | 1,754372218 | 1,151045217 | 2,01936175 |
| 18 | 42 | 0,495458668 | 0,868631514 | 0,57038993 | 1,753186632 | 1,151236149 | 2,018331828 |
| 17 | 43 | 0,495711322 | 0,868487355 | 0,570775521 | 1,752002256 | 1,151427243 | 2,017303127 |
| 16 | 44 | 0,495963934 | 0,868343121 | 0,57116124 | 1,750819086 | 1,151618497 | 2,016275644 |
| 15 | 45 | 0,496216504 | 0,868198814 | 0,571547087 | 1,74963712 | 1,151809912 | 2,015249377 |
| 14 | 46 | 0,496469031 | 0,868054434 | 0,571933063 | 1,748456357 | 1,152001488 | 2,014224325 |
| 13 | 47 | 0,496721517 | 0,867909981 | 0,572319167 | 1,747276795 | 1,152193226 | 2,013200486 |
| 12 | 48 | 0,496973961 | 0,867765453 | 0,5727054 | 1,746098431 | 1,152385124 | 2,012177857 |
| 11 | 49 | 0,497226363 | 0,867620853 | 0,573091761 | 1,744921263 | 1,152577185 | 2,011156437 |
| 10 | 50 | 0,497478722 | 0,867476179 | 0,573478252 | 1,74374529 | 1,152769407 | 2,010136223 |
| 9 | 51 | 0,49773104 | 0,867331431 | 0,573864871 | 1,742570509 | 1,15296179 | 2,009117214 |
| 8 | 52 | 0,497983315 | 0,867186611 | 0,574251619 | 1,741396918 | 1,153154336 | 2,008099407 |
| 7 | 53 | 0,498235549 | 0,867041716 | 0,574638497 | 1,740224516 | 1,153347043 | 2,0070828 |
| 6 | 54 | 0,49848774 | 0,866896749 | 0,575025504 | 1,7390533 | 1,153539913 | 2,006067392 |
| 5 | 55 | 0,498739889 | 0,866751708 | 0,57541264 | 1,737883269 | 1,153732944 | 2,00505318 |
| 4 | 56 | 0,498991995 | 0,866606594 | 0,575799906 | 1,73671442 | 1,153926138 | 2,004040163 |
| 3 | 57 | 0,49924406 | 0,866461406 | 0,576187302 | 1,735546751 | 1,154119494 | 2,003028339 |
| 2 | 58 | 0,499496082 | 0,866316145 | 0,576574828 | 1,734380261 | 1,154313013 | 2,002017704 |
| 1 | 59 | 0,499748062 | 0,866170811 | 0,576962483 | 1,733214947 | 1,154506694 | 2,001008259 |
| 0 | 60 | 0,5 | 0,866025404 | 0,577350269 | 1,732050808 | 1,154700538 | 2 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

60°

| 30° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,5 | 0,866025404 | 0,577350269 | 1,732050808 | 1,154700538 | 2 |
| 59 | 1 | 0,500251895 | 0,865879923 | 0,577738185 | 1,730887841 | 1,154894545 | 1,998992926 |
| 58 | 2 | 0,500503749 | 0,865734369 | 0,578126232 | 1,729726044 | 1,155088715 | 1,997987034 |
| 57 | 3 | 0,500755559 | 0,865588742 | 0,578514409 | 1,728565416 | 1,155283048 | 1,996982323 |
| 56 | 4 | 0,501007328 | 0,865443041 | 0,578902717 | 1,727405955 | 1,155477544 | 1,995978791 |
| 55 | 5 | 0,501259054 | 0,865297268 | 0,579291155 | 1,726247658 | 1,155672204 | 1,994976435 |
| 54 | 6 | 0,501510737 | 0,865151421 | 0,579679725 | 1,725090524 | 1,155867027 | 1,993975255 |
| 53 | 7 | 0,501762378 | 0,8650055 | 0,580068425 | 1,723934551 | 1,156062013 | 1,992975247 |
| 52 | 8 | 0,502013977 | 0,864859507 | 0,580457257 | 1,722779737 | 1,156257163 | 1,991976411 |
| 51 | 9 | 0,502265533 | 0,864713441 | 0,58084622 | 1,721626079 | 1,156452477 | 1,990978743 |
| 50 | 10 | 0,502517047 | 0,864567301 | 0,581235314 | 1,720473576 | 1,156647954 | 1,989982243 |
| 49 | 11 | 0,502768518 | 0,864421088 | 0,58162454 | 1,719322227 | 1,156843596 | 1,988986908 |
| 48 | 12 | 0,503019947 | 0,864274802 | 0,582013898 | 1,718172028 | 1,157039402 | 1,987992736 |
| 47 | 13 | 0,503271333 | 0,864128443 | 0,582403388 | 1,717022979 | 1,157235372 | 1,986999726 |
| 46 | 14 | 0,503522676 | 0,863982011 | 0,58279301 | 1,715875077 | 1,157431506 | 1,986007875 |
| 45 | 15 | 0,503773977 | 0,863835505 | 0,583182763 | 1,71472832 | 1,157627805 | 1,985017181 |
| 44 | 16 | 0,504025235 | 0,863688927 | 0,583572649 | 1,713582706 | 1,157824269 | 1,984027644 |
| 43 | 17 | 0,504276451 | 0,863542275 | 0,583962668 | 1,712438234 | 1,158020897 | 1,98303926 |
| 42 | 18 | 0,504527624 | 0,863395551 | 0,584352819 | 1,711294902 | 1,15821769 | 1,982052028 |
| 41 | 19 | 0,504778754 | 0,863248753 | 0,584743103 | 1,710152708 | 1,158414648 | 1,981065946 |
| 40 | 20 | 0,505029842 | 0,863101882 | 0,585133519 | 1,709011649 | 1,158611771 | 1,980081012 |
| 39 | 21 | 0,505280886 | 0,862954938 | 0,585524068 | 1,707871724 | 1,158809059 | 1,979097225 |
| 38 | 22 | 0,505531888 | 0,862807922 | 0,585914751 | 1,706732931 | 1,159006512 | 1,978114582 |
| 37 | 23 | 0,505782848 | 0,862660832 | 0,586305566 | 1,705595269 | 1,159204131 | 1,977133081 |
| 36 | 24 | 0,506033764 | 0,862513669 | 0,586696515 | 1,704458734 | 1,159401915 | 1,976152721 |
| 35 | 25 | 0,506284638 | 0,862366433 | 0,587087598 | 1,703323327 | 1,159599865 | 1,9751735 |
| 34 | 26 | 0,506535469 | 0,862219125 | 0,587478814 | 1,702189044 | 1,159797981 | 1,974195416 |
| 33 | 27 | 0,506786257 | 0,862071743 | 0,587870163 | 1,701055883 | 1,159996263 | 1,973218467 |
| 32 | 28 | 0,507037002 | 0,861924288 | 0,588261647 | 1,699923843 | 1,16019471 | 1,972242651 |
| 31 | 29 | 0,507287704 | 0,861776761 | 0,588653265 | 1,698792923 | 1,160393324 | 1,971267966 |
| 30 | 30 | 0,507538363 | 0,86162916 | 0,589045016 | 1,697663119 | 1,160592104 | 1,970294411 |
| 29 | 31 | 0,507788979 | 0,861481487 | 0,589436902 | 1,696534431 | 1,16079105 | 1,969321984 |
| 28 | 32 | 0,508039553 | 0,861333741 | 0,589828923 | 1,695406856 | 1,160990163 | 1,968350682 |
| 27 | 33 | 0,508290083 | 0,861185922 | 0,590221078 | 1,694280393 | 1,161189442 | 1,967380505 |
| 26 | 34 | 0,50854057 | 0,86103803 | 0,590613368 | 1,69315504 | 1,161388888 | 1,96641145 |
| 25 | 35 | 0,508791015 | 0,860890065 | 0,591005792 | 1,692030795 | 1,161588501 | 1,965443515 |
| 24 | 36 | 0,509041416 | 0,860742027 | 0,591398351 | 1,690907656 | 1,161788281 | 1,964476699 |
| 23 | 37 | 0,509291774 | 0,860593916 | 0,591791046 | 1,689785621 | 1,161988228 | 1,963510999 |
| 22 | 38 | 0,509542089 | 0,860445733 | 0,592183876 | 1,688664689 | 1,162188342 | 1,962546415 |
| 21 | 39 | 0,509792361 | 0,860297477 | 0,592576841 | 1,687544857 | 1,162388624 | 1,961582944 |
| 20 | 40 | 0,51004259 | 0,860149148 | 0,592969941 | 1,686426124 | 1,162589072 | 1,960620584 |
| 19 | 41 | 0,510292775 | 0,860000746 | 0,593363178 | 1,685308489 | 1,162789689 | 1,959659333 |
| 18 | 42 | 0,510542918 | 0,859852272 | 0,59375655 | 1,684191948 | 1,162990473 | 1,95869919 |
| 17 | 43 | 0,510793017 | 0,859703724 | 0,594150057 | 1,683076501 | 1,163191425 | 1,957740154 |
| 16 | 44 | 0,511043073 | 0,859555104 | 0,594543701 | 1,681962146 | 1,163392545 | 1,956782221 |
| 15 | 45 | 0,511293086 | 0,859406412 | 0,594937482 | 1,680848881 | 1,163593832 | 1,955825391 |
| 14 | 46 | 0,511543056 | 0,859257646 | 0,595331398 | 1,679736704 | 1,163795288 | 1,954869661 |
| 13 | 47 | 0,511792982 | 0,859108808 | 0,595725451 | 1,678625613 | 1,163996913 | 1,953915031 |
| 12 | 48 | 0,512042865 | 0,858959897 | 0,59611964 | 1,677515606 | 1,164198705 | 1,952961497 |
| 11 | 49 | 0,512292705 | 0,858810913 | 0,596513967 | 1,676406683 | 1,164400667 | 1,952009059 |
| 10 | 50 | 0,512542501 | 0,858661857 | 0,59690843 | 1,67529884 | 1,164602796 | 1,951057714 |
| 9 | 51 | 0,512792254 | 0,858512728 | 0,59730303 | 1,674192077 | 1,164805095 | 1,950107461 |
| 8 | 52 | 0,513041963 | 0,858363527 | 0,597697767 | 1,673086391 | 1,165007563 | 1,949158298 |
| 7 | 53 | 0,513291629 | 0,858214253 | 0,598092642 | 1,671981781 | 1,165210199 | 1,948210224 |
| 6 | 54 | 0,513541252 | 0,858064906 | 0,598487654 | 1,670878245 | 1,165413005 | 1,947263235 |
| 5 | 55 | 0,513790831 | 0,857915486 | 0,598882803 | 1,66977578 | 1,16561598 | 1,946317332 |
| 4 | 56 | 0,514040367 | 0,857765994 | 0,59927809 | 1,668674387 | 1,165819124 | 1,945372512 |
| 3 | 57 | 0,514289859 | 0,85761643 | 0,599673515 | 1,667574062 | 1,166022438 | 1,944428773 |
| 2 | 58 | 0,514539308 | 0,857466793 | 0,600069078 | 1,666474804 | 1,166225921 | 1,943486113 |
| 1 | 59 | 0,514788713 | 0,857317083 | 0,60046478 | 1,665376612 | 1,166429574 | 1,942544532 |
| 0 | 60 | 0,515038075 | 0,857167301 | 0,600860619 | 1,664279482 | 1,166633397 | 1,941604026 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

59°

| 31° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,515038075 | 0,857167301 | 0,600860619 | 1,664279482 | 1,166633397 | 1,941604026 |
| 59 | 1 | 0,515287393 | 0,857017446 | 0,601256597 | 1,663183415 | 1,16683739 | 1,940664595 |
| 58 | 2 | 0,515536667 | 0,856867519 | 0,601652713 | 1,662088408 | 1,167041553 | 1,939726237 |
| 57 | 3 | 0,515785898 | 0,856717519 | 0,602048968 | 1,660994459 | 1,167245887 | 1,93878895 |
| 56 | 4 | 0,516035085 | 0,856567447 | 0,602445362 | 1,659901566 | 1,16745039 | 1,937852732 |
| 55 | 5 | 0,516284229 | 0,856417302 | 0,602841895 | 1,658809729 | 1,167655065 | 1,936917581 |
| 54 | 6 | 0,516533329 | 0,856267085 | 0,603238567 | 1,657718944 | 1,16785991 | 1,935983496 |
| 53 | 7 | 0,516782385 | 0,856116795 | 0,603635378 | 1,656629211 | 1,168064925 | 1,935050476 |
| 52 | 8 | 0,517031397 | 0,855966433 | 0,604032328 | 1,655540528 | 1,168270112 | 1,934118518 |
| 51 | 9 | 0,517280366 | 0,855815998 | 0,604429418 | 1,654452893 | 1,168475469 | 1,93318762 |
| 50 | 10 | 0,517529291 | 0,855665491 | 0,604826648 | 1,653366304 | 1,168680998 | 1,932257782 |
| 49 | 11 | 0,517778172 | 0,855514912 | 0,605224018 | 1,65228076 | 1,168886697 | 1,931329001 |
| 48 | 12 | 0,518027009 | 0,85536426 | 0,605621527 | 1,651196259 | 1,169092569 | 1,930401276 |
| 47 | 13 | 0,518275803 | 0,855213536 | 0,606019176 | 1,6501128 | 1,169298611 | 1,929474605 |
| 46 | 14 | 0,518524552 | 0,85506274 | 0,606416966 | 1,64903038 | 1,169504826 | 1,928548986 |
| 45 | 15 | 0,518773258 | 0,854911871 | 0,606814896 | 1,647948997 | 1,169711212 | 1,927620418 |
| 44 | 16 | 0,51902192 | 0,854760929 | 0,607212967 | 1,646868652 | 1,169917769 | 1,926700899 |
| 43 | 17 | 0,519270538 | 0,854609916 | 0,607611178 | 1,64578934 | 1,170124499 | 1,925778428 |
| 42 | 18 | 0,519519112 | 0,85445883 | 0,60800953 | 1,644711062 | 1,170331401 | 1,924857002 |
| 41 | 19 | 0,519767642 | 0,854307672 | 0,608408023 | 1,643633815 | 1,170538476 | 1,92393662 |
| 40 | 20 | 0,520016128 | 0,854156442 | 0,608806657 | 1,642557597 | 1,170745722 | 1,92301728 |
| 39 | 21 | 0,52026457 | 0,854005139 | 0,609205432 | 1,641482408 | 1,170953141 | 1,922098981 |
| 38 | 22 | 0,520512968 | 0,853853764 | 0,609604349 | 1,640408244 | 1,171160733 | 1,921181722 |
| 37 | 23 | 0,520761322 | 0,853702317 | 0,610003407 | 1,639335106 | 1,171368497 | 1,9202655 |
| 36 | 24 | 0,521009632 | 0,853550797 | 0,610402607 | 1,63826299 | 1,171576435 | 1,919350313 |
| 35 | 25 | 0,521257898 | 0,853399206 | 0,610801949 | 1,637191896 | 1,171784545 | 1,918436161 |
| 34 | 26 | 0,521506119 | 0,853247542 | 0,611201432 | 1,636121821 | 1,171992829 | 1,917523041 |
| 33 | 27 | 0,521754297 | 0,853095806 | 0,611601058 | 1,635052765 | 1,172201285 | 1,916610952 |
| 32 | 28 | 0,52200243 | 0,852943997 | 0,612000825 | 1,633984724 | 1,172409916 | 1,915699893 |
| 31 | 29 | 0,52225052 | 0,852792117 | 0,612400735 | 1,632917699 | 1,172618719 | 1,914789861 |
| 30 | 30 | 0,522498565 | 0,852640164 | 0,612800788 | 1,631851687 | 1,172827697 | 1,913880855 |
| 29 | 31 | 0,522746566 | 0,85248814 | 0,613200983 | 1,630786687 | 1,173036848 | 1,912972874 |
| 28 | 32 | 0,522994522 | 0,852336043 | 0,613601322 | 1,629722696 | 1,173246173 | 1,912065916 |
| 27 | 33 | 0,523242435 | 0,852183874 | 0,614001803 | 1,628659714 | 1,173455672 | 1,911159978 |
| 26 | 34 | 0,523490303 | 0,852031633 | 0,614402427 | 1,627597738 | 1,173665345 | 1,910255061 |
| 25 | 35 | 0,523738126 | 0,851879319 | 0,614803194 | 1,626536768 | 1,173875192 | 1,909351161 |
| 24 | 36 | 0,523985906 | 0,851726934 | 0,615204105 | 1,625476801 | 1,174085214 | 1,908448278 |
| 23 | 37 | 0,524233641 | 0,851574477 | 0,615605159 | 1,624417836 | 1,174295411 | 1,90754641 |
| 22 | 38 | 0,524481332 | 0,851421947 | 0,616006357 | 1,623359871 | 1,174505782 | 1,906645555 |
| 21 | 39 | 0,524728978 | 0,851269346 | 0,616407698 | 1,622302905 | 1,174716328 | 1,905745711 |
| 20 | 40 | 0,52497658 | 0,851116672 | 0,616809184 | 1,621246936 | 1,174927049 | 1,904846878 |
| 19 | 41 | 0,525224138 | 0,850963927 | 0,617210814 | 1,620191963 | 1,175137945 | 1,903949053 |
| 18 | 42 | 0,525471651 | 0,850811109 | 0,617612588 | 1,619137983 | 1,175349016 | 1,903052235 |
| 17 | 43 | 0,52571912 | 0,85065822 | 0,618014506 | 1,618084996 | 1,175560262 | 1,902156422 |
| 16 | 44 | 0,525966544 | 0,850505258 | 0,618416569 | 1,617033 | 1,175771684 | 1,901261613 |
| 15 | 45 | 0,526213924 | 0,850352225 | 0,618818777 | 1,615981993 | 1,175983282 | 1,900367807 |
| 14 | 46 | 0,526461259 | 0,85019912 | 0,619221129 | 1,614931973 | 1,176195055 | 1,899475001 |
| 13 | 47 | 0,526708549 | 0,850045942 | 0,619623627 | 1,61388294 | 1,176407004 | 1,898583194 |
| 12 | 48 | 0,526955795 | 0,849892693 | 0,620026269 | 1,612834891 | 1,176619129 | 1,897692384 |
| 11 | 49 | 0,527202997 | 0,849739372 | 0,620429057 | 1,611787825 | 1,17683143 | 1,896802571 |
| 10 | 50 | 0,527450154 | 0,849585979 | 0,62083199 | 1,61074174 | 1,177043907 | 1,895913752 |
| 9 | 51 | 0,527697266 | 0,849432514 | 0,621235069 | 1,609696636 | 1,177256561 | 1,895025926 |
| 8 | 52 | 0,527944334 | 0,849278977 | 0,621638293 | 1,608652509 | 1,177469391 | 1,894139091 |
| 7 | 53 | 0,528191357 | 0,849125368 | 0,622041663 | 1,607609359 | 1,177682398 | 1,893253246 |
| 6 | 54 | 0,528438335 | 0,848971688 | 0,62244518 | 1,606567185 | 1,177895582 | 1,892368389 |
| 5 | 55 | 0,528685268 | 0,848817935 | 0,622848842 | 1,605525984 | 1,178108942 | 1,891484519 |
| 4 | 56 | 0,528932157 | 0,848664111 | 0,623252651 | 1,604485755 | 1,17832248 | 1,890601634 |
| 3 | 57 | 0,529179001 | 0,848510215 | 0,623656606 | 1,603446496 | 1,178536195 | 1,889719732 |
| 2 | 58 | 0,5294258 | 0,848356247 | 0,624060708 | 1,602408207 | 1,178750087 | 1,888838813 |
| 1 | 59 | 0,529672555 | 0,848202208 | 0,624464956 | 1,601370885 | 1,178964156 | 1,887958874 |
| 0 | 60 | 0,529919264 | 0,848048096 | 0,624869352 | 1,600334529 | 1,179178403 | 1,887079915 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

58°

| 32° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,529919264 | 0,848048096 | 0,624869352 | 1,600334529 | 1,179178403 | 1,887079915 |
| 59 | 1 | 0,530165929 | 0,847893913 | 0,625273894 | 1,599299138 | 1,179392828 | 1,886201933 |
| 58 | 2 | 0,530412549 | 0,847739658 | 0,625678584 | 1,598264709 | 1,179607431 | 1,885324927 |
| 57 | 3 | 0,530659124 | 0,847585332 | 0,626083421 | 1,597231242 | 1,179822211 | 1,884448896 |
| 56 | 4 | 0,530905654 | 0,847430933 | 0,626488405 | 1,596198735 | 1,18003717 | 1,883573837 |
| 55 | 5 | 0,531152139 | 0,847276463 | 0,626893538 | 1,595167186 | 1,180252307 | 1,88269975 |
| 54 | 6 | 0,53139858 | 0,847121921 | 0,627298817 | 1,594136594 | 1,180467622 | 1,881826634 |
| 53 | 7 | 0,531644975 | 0,846967308 | 0,627704245 | 1,593106957 | 1,180683116 | 1,880954485 |
| 52 | 8 | 0,531891325 | 0,846812623 | 0,628109821 | 1,592078274 | 1,180898788 | 1,880083304 |
| 51 | 9 | 0,53213763 | 0,846657866 | 0,628515545 | 1,591050544 | 1,181114639 | 1,879213089 |
| 50 | 10 | 0,532383891 | 0,846503038 | 0,628921418 | 1,590023764 | 1,181330669 | 1,878343837 |
| 49 | 11 | 0,532630106 | 0,846348138 | 0,629327439 | 1,588997934 | 1,181546878 | 1,877475548 |
| 48 | 12 | 0,532876276 | 0,846193166 | 0,629733609 | 1,587973051 | 1,181763266 | 1,87660822 |
| 47 | 13 | 0,533122401 | 0,846038123 | 0,630139927 | 1,586949115 | 1,181979834 | 1,875741852 |
| 46 | 14 | 0,533368481 | 0,845883008 | 0,630546395 | 1,585926124 | 1,182196581 | 1,874876442 |
| 45 | 15 | 0,533614516 | 0,845727822 | 0,630953011 | 1,584904077 | 1,182413507 | 1,874011988 |
| 44 | 16 | 0,533860506 | 0,845572564 | 0,631359777 | 1,583882971 | 1,182630614 | 1,87314849 |
| 43 | 17 | 0,53410645 | 0,845417234 | 0,631766693 | 1,582862806 | 1,1828479 | 1,872285946 |
| 42 | 18 | 0,534352349 | 0,845261833 | 0,632173758 | 1,58184358 | 1,183065366 | 1,871424354 |
| 41 | 19 | 0,534598203 | 0,845106361 | 0,632580972 | 1,580825291 | 1,183283012 | 1,870563712 |
| 40 | 20 | 0,534844012 | 0,844950817 | 0,632988337 | 1,579807939 | 1,183500839 | 1,86970402 |
| 39 | 21 | 0,535089776 | 0,844795201 | 0,633395852 | 1,578791521 | 1,183718845 | 1,868845276 |
| 38 | 22 | 0,535335494 | 0,844639514 | 0,633803517 | 1,577776036 | 1,183937033 | 1,867987478 |
| 37 | 23 | 0,535581167 | 0,844483755 | 0,634211332 | 1,576761483 | 1,184155401 | 1,867130626 |
| 36 | 24 | 0,535826795 | 0,844327926 | 0,634619298 | 1,57574786 | 1,18437395 | 1,866274717 |
| 35 | 25 | 0,536072377 | 0,844172024 | 0,635027414 | 1,574735166 | 1,18459268 | 1,86541975 |
| 34 | 26 | 0,536317914 | 0,844016051 | 0,635435681 | 1,573723399 | 1,18481159 | 1,864565724 |
| 33 | 27 | 0,536563406 | 0,843860007 | 0,635844099 | 1,572712558 | 1,185030682 | 1,863712637 |
| 32 | 28 | 0,536808852 | 0,843703891 | 0,636252668 | 1,571702642 | 1,185249956 | 1,862860487 |
| 31 | 29 | 0,537054253 | 0,843547704 | 0,636661389 | 1,570693649 | 1,185469411 | 1,862009275 |
| 30 | 30 | 0,537299608 | 0,843391446 | 0,637070261 | 1,569685577 | 1,185689047 | 1,861158997 |
| 29 | 31 | 0,537544918 | 0,843235116 | 0,637479284 | 1,568678426 | 1,185908866 | 1,860309652 |
| 28 | 32 | 0,537790183 | 0,843078715 | 0,637888459 | 1,567672193 | 1,186128866 | 1,85946124 |
| 27 | 33 | 0,538035402 | 0,842922242 | 0,638297787 | 1,566666877 | 1,186349048 | 1,858613759 |
| 26 | 34 | 0,538280575 | 0,842765699 | 0,638707266 | 1,565662478 | 1,186569413 | 1,857767207 |
| 25 | 35 | 0,538525703 | 0,842609083 | 0,639116897 | 1,564658992 | 1,18678996 | 1,856921582 |
| 24 | 36 | 0,538770785 | 0,842452397 | 0,639526681 | 1,56365642 | 1,187010689 | 1,856076884 |
| 23 | 37 | 0,539015822 | 0,842295639 | 0,639936617 | 1,56265476 | 1,187231601 | 1,855233112 |
| 22 | 38 | 0,539260813 | 0,84213881 | 0,640346705 | 1,561654009 | 1,187452695 | 1,854390262 |
| 21 | 39 | 0,539505758 | 0,84198191 | 0,640756947 | 1,560654168 | 1,187673973 | 1,853548335 |
| 20 | 40 | 0,539750658 | 0,841824939 | 0,641167342 | 1,559655234 | 1,187895433 | 1,852707329 |
| 19 | 41 | 0,539995512 | 0,841667896 | 0,641577889 | 1,558657206 | 1,188117077 | 1,851867243 |
| 18 | 42 | 0,54024032 | 0,841510782 | 0,64198859 | 1,557660082 | 1,188338904 | 1,851028074 |
| 17 | 43 | 0,540485083 | 0,841353597 | 0,642399444 | 1,556663862 | 1,188560914 | 1,850189822 |
| 16 | 44 | 0,5407298 | 0,84119634 | 0,642810452 | 1,555668543 | 1,188783108 | 1,849352486 |
| 15 | 45 | 0,540974471 | 0,841039013 | 0,643221614 | 1,554674125 | 1,189005486 | 1,848516063 |
| 14 | 46 | 0,541219097 | 0,840881614 | 0,64363293 | 1,553680606 | 1,189228047 | 1,847680553 |
| 13 | 47 | 0,541463676 | 0,840724144 | 0,644044399 | 1,552687984 | 1,189450793 | 1,846845954 |
| 12 | 48 | 0,54170821 | 0,840566603 | 0,644456023 | 1,551696259 | 1,189673722 | 1,846012265 |
| 11 | 49 | 0,541952698 | 0,840408991 | 0,644867801 | 1,550705429 | 1,189896836 | 1,845179484 |
| 10 | 50 | 0,54219714 | 0,840251308 | 0,645279734 | 1,549715492 | 1,190120135 | 1,84434761 |
| 9 | 51 | 0,542441537 | 0,840093554 | 0,645691821 | 1,548726447 | 1,190343618 | 1,843516642 |
| 8 | 52 | 0,542685887 | 0,839935729 | 0,646104063 | 1,547738293 | 1,190567285 | 1,842686578 |
| 7 | 53 | 0,542930191 | 0,839777832 | 0,64651646 | 1,546751029 | 1,190791138 | 1,841857417 |
| 6 | 54 | 0,54317445 | 0,839619865 | 0,646929013 | 1,545764652 | 1,191015175 | 1,841029158 |
| 5 | 55 | 0,543418662 | 0,839461826 | 0,64734172 | 1,544779162 | 1,191239398 | 1,840201798 |
| 4 | 56 | 0,543662829 | 0,839303716 | 0,647754583 | 1,543794557 | 1,191463806 | 1,839375338 |
| 3 | 57 | 0,54390695 | 0,839145536 | 0,648167602 | 1,542810836 | 1,191688399 | 1,838549775 |
| 2 | 58 | 0,544151024 | 0,838987284 | 0,648580776 | 1,541827998 | 1,191913178 | 1,837725109 |
| 1 | 59 | 0,544395053 | 0,838828962 | 0,648994107 | 1,540846041 | 1,192138142 | 1,836901337 |
| 0 | 60 | 0,544639035 | 0,838670568 | 0,649407593 | 1,539864964 | 1,192363293 | 1,836078459 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

57°

33°

| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| 60 | 0 | 0,544639035 | 0,838670568 | 0,649407593 | 1,539864964 | 1,192363293 | 1,836078459 |
| 59 | 1 | 0,544882971 | 0,838512103 | 0,649821236 | 1,538884765 | 1,192588629 | 1,835256473 |
| 58 | 2 | 0,545126862 | 0,838353568 | 0,650235035 | 1,537905444 | 1,192814152 | 1,834435377 |
| 57 | 3 | 0,545370706 | 0,838194961 | 0,650648991 | 1,536926998 | 1,193039861 | 1,833615171 |
| 56 | 4 | 0,545614504 | 0,838036284 | 0,651063103 | 1,535949427 | 1,193265756 | 1,832795854 |
| 55 | 5 | 0,545858255 | 0,837877536 | 0,651477372 | 1,534972729 | 1,193491838 | 1,831977423 |
| 54 | 6 | 0,546101961 | 0,837718717 | 0,651891799 | 1,533996902 | 1,193718106 | 1,831159877 |
| 53 | 7 | 0,54634562 | 0,837559827 | 0,652306382 | 1,533021947 | 1,193944562 | 1,830343216 |
| 52 | 8 | 0,546589234 | 0,837400866 | 0,652721123 | 1,53204786 | 1,194171204 | 1,829527438 |
| 51 | 9 | 0,5468328 | 0,837241834 | 0,653136022 | 1,531074641 | 1,194398034 | 1,828712541 |
| 50 | 10 | 0,547076321 | 0,837082731 | 0,653551078 | 1,530102289 | 1,19462505 | 1,827898524 |
| 49 | 11 | 0,547319795 | 0,836923558 | 0,653966292 | 1,529130802 | 1,194852255 | 1,827085386 |
| 48 | 12 | 0,547563223 | 0,836764313 | 0,654381664 | 1,528160179 | 1,195079647 | 1,826273126 |
| 47 | 13 | 0,547806605 | 0,836604998 | 0,654797194 | 1,527190418 | 1,195307226 | 1,825461742 |
| 46 | 14 | 0,548049941 | 0,836445612 | 0,655212882 | 1,526221519 | 1,195534994 | 1,824651233 |
| 45 | 15 | 0,54829323 | 0,836286156 | 0,655628729 | 1,525253479 | 1,195762949 | 1,823841598 |
| 44 | 16 | 0,548536472 | 0,836126628 | 0,656044735 | 1,524286298 | 1,195991093 | 1,823032835 |
| 43 | 17 | 0,548779668 | 0,83596703 | 0,656460899 | 1,523319974 | 1,196219425 | 1,822224943 |
| 42 | 18 | 0,549022818 | 0,835807361 | 0,656877222 | 1,522354507 | 1,196447945 | 1,821417921 |
| 41 | 19 | 0,549265921 | 0,835647622 | 0,657293705 | 1,521389894 | 1,196676654 | 1,820611768 |
| 40 | 20 | 0,549508978 | 0,835487811 | 0,657710347 | 1,520426135 | 1,196905552 | 1,819806482 |
| 39 | 21 | 0,549751988 | 0,83532793 | 0,658127148 | 1,519463227 | 1,197134639 | 1,819002061 |
| 38 | 22 | 0,549994952 | 0,835167979 | 0,658544109 | 1,518501171 | 1,197363914 | 1,818198505 |
| 37 | 23 | 0,550237869 | 0,835007956 | 0,658961229 | 1,517539964 | 1,197593379 | 1,817395813 |
| 36 | 24 | 0,55048074 | 0,834847863 | 0,65937851 | 1,516579605 | 1,197823033 | 1,816593983 |
| 35 | 25 | 0,550723564 | 0,8346877 | 0,659795951 | 1,515620093 | 1,198052877 | 1,815793013 |
| 34 | 26 | 0,550966342 | 0,834527465 | 0,660213552 | 1,514661427 | 1,198282911 | 1,814992903 |
| 33 | 27 | 0,551209073 | 0,83436716 | 0,660631313 | 1,513703605 | 1,198513134 | 1,814193651 |
| 32 | 28 | 0,551451757 | 0,834206785 | 0,661049235 | 1,512746627 | 1,198743547 | 1,813395256 |
| 31 | 29 | 0,551694394 | 0,834046339 | 0,661467318 | 1,51179049 | 1,19897415 | 1,812597717 |
| 30 | 30 | 0,551936985 | 0,833885822 | 0,661885561 | 1,510835194 | 1,199204943 | 1,811801033 |
| 29 | 31 | 0,55217953 | 0,833725235 | 0,662303966 | 1,509880737 | 1,199435927 | 1,811005201 |
| 28 | 32 | 0,552422027 | 0,833564577 | 0,662722532 | 1,508927118 | 1,199667101 | 1,810210222 |
| 27 | 33 | 0,552664478 | 0,833403849 | 0,663141259 | 1,507974336 | 1,199898466 | 1,809416093 |
| 26 | 34 | 0,552906882 | 0,83324305 | 0,663560148 | 1,507022389 | 1,200130022 | 1,808622814 |
| 25 | 35 | 0,553149239 | 0,833082181 | 0,663979199 | 1,506071277 | 1,200361769 | 1,807830382 |
| 24 | 36 | 0,553391549 | 0,832921241 | 0,664398412 | 1,505120998 | 1,200593707 | 1,807038798 |
| 23 | 37 | 0,553633813 | 0,83276023 | 0,664817786 | 1,50417155 | 1,200825836 | 1,806248059 |
| 22 | 38 | 0,553876029 | 0,83259915 | 0,665237323 | 1,503222933 | 1,201058157 | 1,805458165 |
| 21 | 39 | 0,554118199 | 0,832437998 | 0,665657022 | 1,502275145 | 1,201290669 | 1,804669114 |
| 20 | 40 | 0,554360322 | 0,832276777 | 0,666076884 | 1,501328185 | 1,201523373 | 1,803880905 |
| 19 | 41 | 0,554602398 | 0,832115485 | 0,666496909 | 1,500382052 | 1,201756269 | 1,803093537 |
| 18 | 42 | 0,554844427 | 0,831954122 | 0,666917096 | 1,499436745 | 1,201989357 | 1,802307008 |
| 17 | 43 | 0,55508641 | 0,831792689 | 0,667337447 | 1,498492261 | 1,202222637 | 1,801521318 |
| 16 | 44 | 0,555328345 | 0,831631186 | 0,667757961 | 1,497548601 | 1,202456109 | 1,800736464 |
| 15 | 45 | 0,555570233 | 0,831469612 | 0,668178638 | 1,496605763 | 1,202689774 | 1,799952446 |
| 14 | 46 | 0,555812074 | 0,831307968 | 0,668599479 | 1,495663745 | 1,202923631 | 1,799169263 |
| 13 | 47 | 0,556053868 | 0,831146254 | 0,669020483 | 1,494722546 | 1,203157682 | 1,798386913 |
| 12 | 48 | 0,556295616 | 0,830984469 | 0,669441652 | 1,493782166 | 1,203391925 | 1,797605396 |
| 11 | 49 | 0,556537316 | 0,830822614 | 0,669862984 | 1,492842602 | 1,203626361 | 1,796824709 |
| 10 | 50 | 0,556778968 | 0,830660689 | 0,670284481 | 1,491903854 | 1,203860991 | 1,796044852 |
| 9 | 51 | 0,557020574 | 0,830498693 | 0,670706142 | 1,490965921 | 1,204095814 | 1,795265823 |
| 8 | 52 | 0,557262133 | 0,830336628 | 0,671127967 | 1,4900288 | 1,20433083 | 1,794487622 |
| 7 | 53 | 0,557503645 | 0,830174491 | 0,671549958 | 1,489092492 | 1,20456604 | 1,793710247 |
| 6 | 54 | 0,557745109 | 0,830012285 | 0,671972113 | 1,488156995 | 1,204801444 | 1,792933697 |
| 5 | 55 | 0,557986526 | 0,829850009 | 0,672394433 | 1,487222307 | 1,205037043 | 1,79215797 |
| 4 | 56 | 0,558227896 | 0,829687662 | 0,672816919 | 1,486288427 | 1,205272835 | 1,791383066 |
| 3 | 57 | 0,558469219 | 0,829525245 | 0,67323957 | 1,485355355 | 1,205508821 | 1,790608983 |
| 2 | 58 | 0,558710494 | 0,829362757 | 0,673662386 | 1,484423088 | 1,205745002 | 1,78983572 |
| 1 | 59 | 0,558951723 | 0,8292002 | 0,674085369 | 1,483491627 | 1,205981378 | 1,789063276 |
| 0 | 60 | 0,559192903 | 0,829037573 | 0,674508517 | 1,482560969 | 1,206217949 | 1,78829165 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

56°

| 34° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,559192903 | 0,829037573 | 0,674508517 | 1,482560969 | 1,206217949 | 1,78829165 |
| 59 | 1 | 0,559434037 | 0,828874875 | 0,674931831 | 1,481631113 | 1,206454714 | 1,78752084 |
| 58 | 2 | 0,559675123 | 0,828712107 | 0,675355312 | 1,480702058 | 1,206691674 | 1,786750846 |
| 57 | 3 | 0,559916162 | 0,828549269 | 0,675778959 | 1,479773804 | 1,20692883 | 1,785981666 |
| 56 | 4 | 0,560157154 | 0,828386361 | 0,676202772 | 1,478846348 | 1,207166181 | 1,785213298 |
| 55 | 5 | 0,560398098 | 0,828223383 | 0,676626752 | 1,47791969 | 1,207403728 | 1,784445743 |
| 54 | 6 | 0,560638995 | 0,828060335 | 0,6770509 | 1,476993828 | 1,20764147 | 1,783678998 |
| 53 | 7 | 0,560879844 | 0,827897216 | 0,677475214 | 1,476068761 | 1,207879409 | 1,782913062 |
| 52 | 8 | 0,561120646 | 0,827734028 | 0,677899696 | 1,475144489 | 1,208117543 | 1,782147935 |
| 51 | 9 | 0,5613614 | 0,82757077 | 0,678324345 | 1,474221009 | 1,208355873 | 1,781383615 |
| 50 | 10 | 0,561602107 | 0,827407441 | 0,678749161 | 1,473298321 | 1,2085944 | 1,780620101 |
| 49 | 11 | 0,561842766 | 0,827244043 | 0,679174146 | 1,472376424 | 1,208833123 | 1,779857391 |
| 48 | 12 | 0,562083378 | 0,827080574 | 0,679599298 | 1,471455316 | 1,209072043 | 1,779095485 |
| 47 | 13 | 0,562323942 | 0,826917036 | 0,680024619 | 1,470534996 | 1,20931116 | 1,778334382 |
| 46 | 14 | 0,562564459 | 0,826753427 | 0,680450108 | 1,469615463 | 1,209550474 | 1,77757408 |
| 45 | 15 | 0,562804928 | 0,826589749 | 0,680875765 | 1,468696716 | 1,209789985 | 1,776814578 |
| 44 | 16 | 0,563045349 | 0,826426001 | 0,681301591 | 1,467778754 | 1,210029693 | 1,776055875 |
| 43 | 17 | 0,563285723 | 0,826262183 | 0,681727586 | 1,466861575 | 1,210269598 | 1,775297969 |
| 42 | 18 | 0,563526049 | 0,826098294 | 0,682153749 | 1,465945179 | 1,210509702 | 1,774540861 |
| 41 | 19 | 0,563766327 | 0,825934336 | 0,682580082 | 1,465029563 | 1,210750003 | 1,773784548 |
| 40 | 20 | 0,564006558 | 0,825770309 | 0,683006585 | 1,464114728 | 1,210990501 | 1,773029029 |
| 39 | 21 | 0,564246741 | 0,825606211 | 0,683433256 | 1,463200672 | 1,211231198 | 1,772274304 |
| 38 | 22 | 0,564486876 | 0,825442043 | 0,683860098 | 1,462287394 | 1,211472093 | 1,77152037 |
| 37 | 23 | 0,564726964 | 0,825277806 | 0,684287109 | 1,461374892 | 1,211713187 | 1,770767228 |
| 36 | 24 | 0,564967003 | 0,825113498 | 0,68471429 | 1,460463166 | 1,211954479 | 1,770014875 |
| 35 | 25 | 0,565206995 | 0,824949121 | 0,685141642 | 1,459552214 | 1,21219597 | 1,769263311 |
| 34 | 26 | 0,565446939 | 0,824784674 | 0,685569164 | 1,458642035 | 1,21243766 | 1,768512535 |
| 33 | 27 | 0,565686836 | 0,824620157 | 0,685996856 | 1,457732628 | 1,212679548 | 1,767762545 |
| 32 | 28 | 0,565926684 | 0,824455571 | 0,686424719 | 1,456823992 | 1,212921636 | 1,76701334 |
| 31 | 29 | 0,566166484 | 0,824290915 | 0,686852753 | 1,455916126 | 1,213163923 | 1,76626492 |
| 30 | 30 | 0,566406237 | 0,824126189 | 0,687280959 | 1,455009029 | 1,21340641 | 1,765517282 |
| 29 | 31 | 0,566645942 | 0,823961393 | 0,687709335 | 1,454102699 | 1,213649097 | 1,764770427 |
| 28 | 32 | 0,566885598 | 0,823796527 | 0,688137883 | 1,453197135 | 1,213891983 | 1,764024352 |
| 27 | 33 | 0,567125207 | 0,823631592 | 0,688566602 | 1,452292337 | 1,214135069 | 1,763279057 |
| 26 | 34 | 0,567364768 | 0,823466587 | 0,688995493 | 1,451388303 | 1,214378355 | 1,76253454 |
| 25 | 35 | 0,56760428 | 0,823301513 | 0,689424557 | 1,450485032 | 1,214621842 | 1,761790801 |
| 24 | 36 | 0,567843745 | 0,823136369 | 0,689853792 | 1,449582523 | 1,21486529 | 1,761047839 |
| 23 | 37 | 0,568083162 | 0,822971155 | 0,690283199 | 1,448680775 | 1,215109417 | 1,760305651 |
| 22 | 38 | 0,56832253 | 0,822805871 | 0,69071278 | 1,447779786 | 1,215353506 | 1,759564238 |
| 21 | 39 | 0,568561851 | 0,822640518 | 0,691142532 | 1,446879556 | 1,215597795 | 1,758823598 |
| 20 | 40 | 0,568801123 | 0,822475095 | 0,691572458 | 1,445980083 | 1,215842286 | 1,75808373 |
| 19 | 41 | 0,569040347 | 0,822309603 | 0,692002556 | 1,445081367 | 1,216086978 | 1,757344632 |
| 18 | 42 | 0,569279523 | 0,822144041 | 0,692432828 | 1,444183406 | 1,216331871 | 1,756606305 |
| 17 | 43 | 0,569518651 | 0,82197841 | 0,692863273 | 1,443286199 | 1,216576966 | 1,755868746 |
| 16 | 44 | 0,569757731 | 0,821812709 | 0,693293892 | 1,442389745 | 1,216822263 | 1,755131954 |
| 15 | 45 | 0,569996763 | 0,821646938 | 0,693724684 | 1,441494043 | 1,217067762 | 1,754395929 |
| 14 | 46 | 0,570235746 | 0,821481098 | 0,694155651 | 1,440599092 | 1,217313463 | 1,75366067 |
| 13 | 47 | 0,570474681 | 0,821315188 | 0,694586791 | 1,439704891 | 1,217559366 | 1,752926174 |
| 12 | 48 | 0,570713568 | 0,821149209 | 0,695018106 | 1,438811438 | 1,217805472 | 1,752192442 |
| 11 | 49 | 0,570952406 | 0,820983161 | 0,695449595 | 1,437918733 | 1,21805178 | 1,751459472 |
| 10 | 50 | 0,571191196 | 0,820817042 | 0,695881258 | 1,437026775 | 1,218298291 | 1,750727263 |
| 9 | 51 | 0,571429938 | 0,820650855 | 0,696313097 | 1,436135561 | 1,218545005 | 1,749995814 |
| 8 | 52 | 0,571668632 | 0,820484598 | 0,69674511 | 1,435245092 | 1,218791922 | 1,749265124 |
| 7 | 53 | 0,571907277 | 0,820318272 | 0,697177299 | 1,434355367 | 1,219039042 | 1,748535192 |
| 6 | 54 | 0,572145873 | 0,820151876 | 0,697609663 | 1,433466383 | 1,219286366 | 1,747806017 |
| 5 | 55 | 0,572384422 | 0,819985411 | 0,698042202 | 1,432578141 | 1,219533893 | 1,747077597 |
| 4 | 56 | 0,572622922 | 0,819818876 | 0,698474917 | 1,431690638 | 1,219781624 | 1,746349932 |
| 3 | 57 | 0,572861373 | 0,819652272 | 0,698907808 | 1,430803875 | 1,220029559 | 1,74562302 |
| 2 | 58 | 0,573099776 | 0,819485599 | 0,699340875 | 1,429917849 | 1,220277698 | 1,744896861 |
| 1 | 59 | 0,57333813 | 0,819318856 | 0,699774119 | 1,42903256 | 1,220526041 | 1,744171453 |
| 0 | 60 | 0,573576436 | 0,819152044 | 0,700207538 | 1,428148007 | 1,220774589 | 1,743446796 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

55°

| 35° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,573576436 | 0,819152044 | 0,700207538 | 1,428148007 | 1,220774589 | 1,743446796 |
| 59 | 1 | 0,573814694 | 0,818985163 | 0,700641134 | 1,427264188 | 1,221023341 | 1,742722888 |
| 58 | 2 | 0,574052903 | 0,818818212 | 0,701074908 | 1,426381103 | 1,221272298 | 1,741999728 |
| 57 | 3 | 0,574291063 | 0,818651193 | 0,701508858 | 1,425498751 | 1,22152146 | 1,741277315 |
| 56 | 4 | 0,574529175 | 0,818484103 | 0,701942985 | 1,424617129 | 1,221770827 | 1,740555649 |
| 55 | 5 | 0,574767238 | 0,818316945 | 0,702377289 | 1,423736239 | 1,222020399 | 1,739834727 |
| 54 | 6 | 0,575005252 | 0,818149717 | 0,702811771 | 1,422856077 | 1,222270177 | 1,73911455 |
| 53 | 7 | 0,575243218 | 0,817982421 | 0,703246431 | 1,421976644 | 1,22252016 | 1,738395115 |
| 52 | 8 | 0,575481135 | 0,817815054 | 0,703681268 | 1,421097939 | 1,222770349 | 1,737676423 |
| 51 | 9 | 0,575719003 | 0,817647619 | 0,704116284 | 1,420219959 | 1,223020745 | 1,736958471 |
| 50 | 10 | 0,575956823 | 0,817480115 | 0,704551478 | 1,419342704 | 1,223271346 | 1,73624126 |
| 49 | 11 | 0,576194594 | 0,817312541 | 0,70498685 | 1,418466174 | 1,223522153 | 1,735524787 |
| 48 | 12 | 0,576432316 | 0,817144898 | 0,705422401 | 1,417590366 | 1,223773167 | 1,734809052 |
| 47 | 13 | 0,57666999 | 0,816977186 | 0,705858131 | 1,416715281 | 1,224024387 | 1,734094054 |
| 46 | 14 | 0,576907614 | 0,816809405 | 0,706294039 | 1,415840917 | 1,224275814 | 1,733379791 |
| 45 | 15 | 0,57714519 | 0,816641555 | 0,706730127 | 1,414967272 | 1,224527449 | 1,732666264 |
| 44 | 16 | 0,577382717 | 0,816473636 | 0,707166394 | 1,414094346 | 1,22477929 | 1,73195347 |
| 43 | 17 | 0,577620195 | 0,816305648 | 0,707602841 | 1,413222139 | 1,225031338 | 1,731241408 |
| 42 | 18 | 0,577857624 | 0,81613759 | 0,708039467 | 1,412350648 | 1,225283595 | 1,730530078 |
| 41 | 19 | 0,578095005 | 0,815969464 | 0,708476273 | 1,411479873 | 1,225536058 | 1,729819479 |
| 40 | 20 | 0,578332336 | 0,815801268 | 0,70891326 | 1,410609812 | 1,22578873 | 1,72910961 |
| 39 | 21 | 0,578569619 | 0,815633003 | 0,709350426 | 1,409740465 | 1,226041609 | 1,728400469 |
| 38 | 22 | 0,578806852 | 0,81546467 | 0,709787773 | 1,408871831 | 1,226294697 | 1,727692055 |
| 37 | 23 | 0,579044037 | 0,815296267 | 0,710225301 | 1,408003909 | 1,226547993 | 1,726984368 |
| 36 | 24 | 0,579281172 | 0,815127796 | 0,710663009 | 1,407136697 | 1,226801497 | 1,726277407 |
| 35 | 25 | 0,579518259 | 0,814959255 | 0,711100899 | 1,406270195 | 1,22705521 | 1,72557117 |
| 34 | 26 | 0,579755296 | 0,814790646 | 0,71153897 | 1,405404402 | 1,227309132 | 1,724865657 |
| 33 | 27 | 0,579992285 | 0,814621967 | 0,711977222 | 1,404539316 | 1,227563263 | 1,724160866 |
| 32 | 28 | 0,580229224 | 0,81445322 | 0,712415655 | 1,403674937 | 1,227817603 | 1,723456796 |
| 31 | 29 | 0,580466115 | 0,814284404 | 0,712854271 | 1,402811263 | 1,228072152 | 1,722753448 |
| 30 | 30 | 0,580702956 | 0,814115518 | 0,713293068 | 1,401948294 | 1,228326911 | 1,722050818 |
| 29 | 31 | 0,580939748 | 0,813946564 | 0,713732047 | 1,401086029 | 1,22858188 | 1,721348907 |
| 28 | 32 | 0,581176491 | 0,813777541 | 0,714171209 | 1,400224466 | 1,228837058 | 1,720647714 |
| 27 | 33 | 0,581413184 | 0,81360845 | 0,714610553 | 1,399363605 | 1,229092447 | 1,719947237 |
| 26 | 34 | 0,581649829 | 0,813439289 | 0,71505008 | 1,398503444 | 1,229348046 | 1,719247476 |
| 25 | 35 | 0,581886424 | 0,813270059 | 0,71548979 | 1,397643983 | 1,229603855 | 1,718548429 |
| 24 | 36 | 0,58212297 | 0,813100761 | 0,715929683 | 1,39678522 | 1,229859875 | 1,717850096 |
| 23 | 37 | 0,582359467 | 0,812931394 | 0,716369759 | 1,395927155 | 1,230116105 | 1,717152475 |
| 22 | 38 | 0,582595914 | 0,812761958 | 0,716810019 | 1,395069787 | 1,230372546 | 1,716455566 |
| 21 | 39 | 0,582832313 | 0,812592453 | 0,717250462 | 1,394213114 | 1,230629199 | 1,715759367 |
| 20 | 40 | 0,583068662 | 0,81242288 | 0,717691089 | 1,393357135 | 1,230886063 | 1,715063878 |
| 19 | 41 | 0,583304961 | 0,812253238 | 0,7181319 | 1,39250185 | 1,231143138 | 1,714369098 |
| 18 | 42 | 0,583541211 | 0,812083527 | 0,718572896 | 1,391647258 | 1,231400425 | 1,713675025 |
| 17 | 43 | 0,583777412 | 0,811913747 | 0,719014075 | 1,390793358 | 1,231657923 | 1,712981659 |
| 16 | 44 | 0,584013564 | 0,811743899 | 0,71945544 | 1,389940148 | 1,231915634 | 1,712288999 |
| 15 | 45 | 0,584249666 | 0,811573982 | 0,719896989 | 1,389087628 | 1,232173557 | 1,711597043 |
| 14 | 46 | 0,584485718 | 0,811403996 | 0,720338723 | 1,388235796 | 1,232431692 | 1,710905791 |
| 13 | 47 | 0,584721721 | 0,811233942 | 0,720780642 | 1,387384652 | 1,23269004 | 1,710215242 |
| 12 | 48 | 0,584957675 | 0,811063819 | 0,721222746 | 1,386534195 | 1,2329486 | 1,709525394 |
| 11 | 49 | 0,585193579 | 0,810893627 | 0,721665036 | 1,385684424 | 1,233207373 | 1,708836248 |
| 10 | 50 | 0,585429434 | 0,810723367 | 0,722107512 | 1,384835337 | 1,233466359 | 1,708147801 |
| 9 | 51 | 0,585665239 | 0,810553038 | 0,722550174 | 1,383986934 | 1,233725559 | 1,707460053 |
| 8 | 52 | 0,585900994 | 0,810382641 | 0,722993022 | 1,383139214 | 1,233984971 | 1,706773004 |
| 7 | 53 | 0,5861367 | 0,810212175 | 0,723436056 | 1,382292176 | 1,234244598 | 1,706086651 |
| 6 | 54 | 0,586372357 | 0,81004164 | 0,723879277 | 1,381445819 | 1,234504438 | 1,705400994 |
| 5 | 55 | 0,586607963 | 0,809871037 | 0,724322684 | 1,380600141 | 1,234764492 | 1,704716032 |
| 4 | 56 | 0,586843521 | 0,809700366 | 0,724766278 | 1,379755143 | 1,23502476 | 1,704031765 |
| 3 | 57 | 0,587079028 | 0,809529626 | 0,72521006 | 1,378910823 | 1,235285243 | 1,70334819 |
| 2 | 58 | 0,587314486 | 0,809358817 | 0,725654028 | 1,37806718 | 1,23554594 | 1,702665308 |
| 1 | 59 | 0,587549894 | 0,80918794 | 0,726098184 | 1,377224212 | 1,235806851 | 1,701983117 |
| 0 | 60 | 0,587785252 | 0,809016994 | 0,726542528 | 1,37638192 | 1,236067977 | 1,701301617 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

54°

| 36° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,587785252 | 0,809016994 | 0,726542528 | 1,37638192 | 1,236067977 | 1,701301617 |
| 59 | 1 | 0,588020561 | 0,80884598 | 0,72698706 | 1,375540303 | 1,236329319 | 1,700620806 |
| 58 | 2 | 0,58825582 | 0,808674898 | 0,727431779 | 1,374699358 | 1,236590876 | 1,699940683 |
| 57 | 3 | 0,588491029 | 0,808503747 | 0,727876687 | 1,373859086 | 1,236852648 | 1,699261248 |
| 56 | 4 | 0,588726188 | 0,808332528 | 0,728321783 | 1,373019485 | 1,237114635 | 1,698582499 |
| 55 | 5 | 0,588961298 | 0,80816124 | 0,728767068 | 1,372180554 | 1,237376838 | 1,697904436 |
| 54 | 6 | 0,589196357 | 0,807989884 | 0,729212542 | 1,371342293 | 1,237639258 | 1,697227058 |
| 53 | 7 | 0,589431367 | 0,807818459 | 0,729658205 | 1,370504701 | 1,237901893 | 1,696550363 |
| 52 | 8 | 0,589666327 | 0,807646967 | 0,730104057 | 1,369667776 | 1,238164744 | 1,695874351 |
| 51 | 9 | 0,589901237 | 0,807475405 | 0,730550099 | 1,368831517 | 1,238427812 | 1,695199022 |
| 50 | 10 | 0,590136097 | 0,807303776 | 0,73099633 | 1,367995925 | 1,238691097 | 1,694524373 |
| 49 | 11 | 0,590370907 | 0,807132078 | 0,731442751 | 1,367160997 | 1,238954599 | 1,693850404 |
| 48 | 12 | 0,590605668 | 0,806960312 | 0,731889362 | 1,366326733 | 1,239218317 | 1,693177114 |
| 47 | 13 | 0,590840378 | 0,806788478 | 0,732336163 | 1,365493131 | 1,239482253 | 1,692504503 |
| 46 | 14 | 0,591075038 | 0,806616575 | 0,732783154 | 1,364660192 | 1,239746406 | 1,691832569 |
| 45 | 15 | 0,591309648 | 0,806444604 | 0,733230336 | 1,363827914 | 1,240010777 | 1,691161311 |
| 44 | 16 | 0,591544209 | 0,806272565 | 0,733677709 | 1,362996296 | 1,240275365 | 1,690490728 |
| 43 | 17 | 0,591778719 | 0,806100458 | 0,734125273 | 1,362165337 | 1,240540171 | 1,68982082 |
| 42 | 18 | 0,592013179 | 0,805928282 | 0,734573028 | 1,361335036 | 1,240805196 | 1,689151586 |
| 41 | 19 | 0,592247589 | 0,805756039 | 0,735020975 | 1,360505393 | 1,241070438 | 1,688483025 |
| 40 | 20 | 0,592481949 | 0,805583727 | 0,735469113 | 1,359676406 | 1,2413359 | 1,687815135 |
| 39 | 21 | 0,592716258 | 0,805411346 | 0,735917443 | 1,358848075 | 1,24160158 | 1,687147916 |
| 38 | 22 | 0,592950518 | 0,805238898 | 0,736365965 | 1,358020398 | 1,241867478 | 1,686481367 |
| 37 | 23 | 0,593184727 | 0,805066382 | 0,736814679 | 1,357193374 | 1,242133596 | 1,685815487 |
| 36 | 24 | 0,593418887 | 0,804893797 | 0,737263585 | 1,356367004 | 1,242399933 | 1,685150275 |
| 35 | 25 | 0,593652996 | 0,804721145 | 0,737712684 | 1,355541285 | 1,24266649 | 1,684485731 |
| 34 | 26 | 0,593887054 | 0,804548424 | 0,738161976 | 1,354716218 | 1,242933266 | 1,683821852 |
| 33 | 27 | 0,594121063 | 0,804375635 | 0,738611461 | 1,3538918 | 1,243200261 | 1,68315864 |
| 32 | 28 | 0,594355021 | 0,804202778 | 0,739061139 | 1,353068031 | 1,243467477 | 1,682496091 |
| 31 | 29 | 0,594588929 | 0,804029854 | 0,73951101 | 1,352244911 | 1,243734913 | 1,681834207 |
| 30 | 30 | 0,594822787 | 0,803856861 | 0,739961075 | 1,351422438 | 1,244002569 | 1,681172985 |
| 29 | 31 | 0,595056594 | 0,8036838 | 0,740411334 | 1,350600611 | 1,244270446 | 1,680512425 |
| 28 | 32 | 0,595290351 | 0,803510671 | 0,740861787 | 1,34977943 | 1,244538544 | 1,679852526 |
| 27 | 33 | 0,595524058 | 0,803337474 | 0,741312433 | 1,348958893 | 1,244806862 | 1,679193287 |
| 26 | 34 | 0,595757714 | 0,803164209 | 0,741763275 | 1,348139001 | 1,245075402 | 1,678534708 |
| 25 | 35 | 0,59599132 | 0,802990876 | 0,742214311 | 1,34731975 | 1,245344163 | 1,677876786 |
| 24 | 36 | 0,596224875 | 0,802817475 | 0,742665542 | 1,346501142 | 1,245613145 | 1,677219522 |
| 23 | 37 | 0,59645838 | 0,802644006 | 0,743116967 | 1,345683175 | 1,245882349 | 1,676562915 |
| 22 | 38 | 0,596691834 | 0,80247047 | 0,743568588 | 1,344865848 | 1,246151775 | 1,675906963 |
| 21 | 39 | 0,596925238 | 0,802296865 | 0,744020405 | 1,34404916 | 1,246421422 | 1,675251666 |
| 20 | 40 | 0,597158592 | 0,802123193 | 0,744472417 | 1,343233111 | 1,246691293 | 1,674597023 |
| 19 | 41 | 0,597391895 | 0,801949452 | 0,744924624 | 1,342417699 | 1,246961385 | 1,673943033 |
| 18 | 42 | 0,597625147 | 0,801775644 | 0,745377028 | 1,341602923 | 1,2472317 | 1,673289695 |
| 17 | 43 | 0,597858349 | 0,801601768 | 0,745829628 | 1,340788784 | 1,247502238 | 1,672637009 |
| 16 | 44 | 0,5980915 | 0,801427824 | 0,746282425 | 1,339975279 | 1,247772999 | 1,671984972 |
| 15 | 45 | 0,598324601 | 0,801253813 | 0,746735418 | 1,339162408 | 1,248043983 | 1,671333586 |
| 14 | 46 | 0,598557651 | 0,801079733 | 0,747188608 | 1,33835017 | 1,248315191 | 1,670682848 |
| 13 | 47 | 0,59879065 | 0,800905586 | 0,747641995 | 1,337538564 | 1,248586622 | 1,670032757 |
| 12 | 48 | 0,599023599 | 0,800731371 | 0,748095579 | 1,33672759 | 1,248858277 | 1,669383314 |
| 11 | 49 | 0,599256496 | 0,800557088 | 0,748549361 | 1,335917246 | 1,249130155 | 1,668734517 |
| 10 | 50 | 0,599489344 | 0,800382738 | 0,74900334 | 1,335107531 | 1,249402258 | 1,668086365 |
| 9 | 51 | 0,59972214 | 0,800208319 | 0,749457517 | 1,334298445 | 1,249674586 | 1,667438857 |
| 8 | 52 | 0,599954886 | 0,800033833 | 0,749911892 | 1,333489987 | 1,249947137 | 1,666791993 |
| 7 | 53 | 0,600187581 | 0,79985928 | 0,750366466 | 1,332682156 | 1,250219914 | 1,666145771 |
| 6 | 54 | 0,600420225 | 0,799684658 | 0,750821238 | 1,331874952 | 1,250492915 | 1,665500191 |
| 5 | 55 | 0,600652819 | 0,799509969 | 0,751276209 | 1,331068372 | 1,250766142 | 1,664855252 |
| 4 | 56 | 0,600885361 | 0,799335213 | 0,751731378 | 1,330262416 | 1,251039594 | 1,664210953 |
| 3 | 57 | 0,601117853 | 0,799160389 | 0,752186747 | 1,329457085 | 1,251313271 | 1,663567293 |
| 2 | 58 | 0,601350294 | 0,798985497 | 0,752642315 | 1,328652375 | 1,251587174 | 1,662924272 |
| 1 | 59 | 0,601582684 | 0,798810537 | 0,753098083 | 1,327848288 | 1,251861303 | 1,662281888 |
| 0 | 60 | 0,601815023 | 0,79863551 | 0,75355405 | 1,327044822 | 1,252135658 | 1,661640141 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

53°

| 37° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,601815023 | 0,79863551 | 0,75355405 | 1,327044822 | 1,252135658 | 1,661640141 |
| 59 | 1 | 0,602047311 | 0,798460415 | 0,754010217 | 1,326241975 | 1,252410239 | 1,66099903 |
| 58 | 2 | 0,602279549 | 0,798285253 | 0,754466585 | 1,325439748 | 1,252685047 | 1,660358553 |
| 57 | 3 | 0,602511735 | 0,798110023 | 0,754923153 | 1,324638139 | 1,252960082 | 1,659718711 |
| 56 | 4 | 0,60274387 | 0,797934726 | 0,755379921 | 1,323837148 | 1,253235343 | 1,659079502 |
| 55 | 5 | 0,602975954 | 0,797759361 | 0,75583689 | 1,323036773 | 1,253510831 | 1,658440926 |
| 54 | 6 | 0,603207988 | 0,797583929 | 0,75629406 | 1,322237014 | 1,253786547 | 1,657802981 |
| 53 | 7 | 0,60343997 | 0,797408429 | 0,756751431 | 1,321437871 | 1,25406249 | 1,657165666 |
| 52 | 8 | 0,603671901 | 0,797232862 | 0,757209004 | 1,320639341 | 1,254338661 | 1,656528982 |
| 51 | 9 | 0,603903781 | 0,797057227 | 0,757666778 | 1,319841425 | 1,254615059 | 1,655892927 |
| 50 | 10 | 0,60413561 | 0,796881525 | 0,758124754 | 1,319044121 | 1,254891686 | 1,6552575 |
| 49 | 11 | 0,604367388 | 0,796705755 | 0,758582933 | 1,318247428 | 1,255168541 | 1,654622701 |
| 48 | 12 | 0,604599115 | 0,796529918 | 0,759041313 | 1,317451347 | 1,255445624 | 1,653988528 |
| 47 | 13 | 0,60483079 | 0,796354014 | 0,759499896 | 1,316655875 | 1,255722936 | 1,653354981 |
| 46 | 14 | 0,605062415 | 0,796178042 | 0,759958682 | 1,315861012 | 1,256000477 | 1,652722059 |
| 45 | 15 | 0,605293988 | 0,796002003 | 0,76041767 | 1,315066758 | 1,256278247 | 1,652089761 |
| 44 | 16 | 0,60552551 | 0,795825896 | 0,760876861 | 1,314273111 | 1,256556246 | 1,651458086 |
| 43 | 17 | 0,605756981 | 0,795649722 | 0,761336256 | 1,313480071 | 1,256834474 | 1,650827034 |
| 42 | 18 | 0,6059884 | 0,795473481 | 0,761795855 | 1,312687636 | 1,257112932 | 1,650196604 |
| 41 | 19 | 0,606219768 | 0,795297172 | 0,762255657 | 1,311895807 | 1,25739162 | 1,649566794 |
| 40 | 20 | 0,606451085 | 0,795120796 | 0,762715663 | 1,311104581 | 1,257670538 | 1,648937604 |
| 39 | 21 | 0,606682351 | 0,794944353 | 0,763175873 | 1,310313959 | 1,257949686 | 1,648309034 |
| 38 | 22 | 0,606913565 | 0,794767843 | 0,763636288 | 1,30952394 | 1,258229065 | 1,647681082 |
| 37 | 23 | 0,607144728 | 0,794591265 | 0,764096907 | 1,308734522 | 1,258508674 | 1,647053748 |
| 36 | 24 | 0,60737584 | 0,794414621 | 0,764557731 | 1,307945704 | 1,258788514 | 1,64642703 |
| 35 | 25 | 0,6076069 | 0,794237908 | 0,76501876 | 1,307157487 | 1,259068586 | 1,645800929 |
| 34 | 26 | 0,607837909 | 0,794061129 | 0,765479994 | 1,306369869 | 1,259348888 | 1,645175442 |
| 33 | 27 | 0,608068866 | 0,793884283 | 0,765941434 | 1,30558285 | 1,259629422 | 1,64455057 |
| 32 | 28 | 0,608299772 | 0,793707369 | 0,766403079 | 1,304796428 | 1,259910187 | 1,643926311 |
| 31 | 29 | 0,608530626 | 0,793530388 | 0,766864931 | 1,304010602 | 1,260191185 | 1,643302666 |
| 30 | 30 | 0,608761429 | 0,79335334 | 0,767326988 | 1,303225373 | 1,260472414 | 1,642679632 |
| 29 | 31 | 0,60899218 | 0,793176225 | 0,767789252 | 1,302440739 | 1,260753876 | 1,642057209 |
| 28 | 32 | 0,60922288 | 0,792999043 | 0,768251722 | 1,301656699 | 1,26103557 | 1,641435397 |
| 27 | 33 | 0,609453529 | 0,792821794 | 0,768714399 | 1,300873252 | 1,261317496 | 1,640814194 |
| 26 | 34 | 0,609684125 | 0,792644477 | 0,769177283 | 1,300090398 | 1,261599656 | 1,6401936 |
| 25 | 35 | 0,60991467 | 0,792467094 | 0,769640374 | 1,299308137 | 1,261882049 | 1,639573613 |
| 24 | 36 | 0,610145164 | 0,792289643 | 0,770103672 | 1,298526466 | 1,262164675 | 1,638954234 |
| 23 | 37 | 0,610375606 | 0,792112126 | 0,770567178 | 1,297745385 | 1,262447534 | 1,638335462 |
| 22 | 38 | 0,610605996 | 0,791934541 | 0,771030892 | 1,296964894 | 1,262730627 | 1,637717295 |
| 21 | 39 | 0,610836335 | 0,79175689 | 0,771494814 | 1,296184992 | 1,263013954 | 1,637099732 |
| 20 | 40 | 0,611066622 | 0,791579171 | 0,771958945 | 1,295405678 | 1,263297515 | 1,636482774 |
| 19 | 41 | 0,611296857 | 0,791401385 | 0,772423283 | 1,294626951 | 1,263581311 | 1,635866419 |
| 18 | 42 | 0,61152704 | 0,791223533 | 0,772887831 | 1,29384881 | 1,263865341 | 1,635250666 |
| 17 | 43 | 0,611757172 | 0,791045613 | 0,773352587 | 1,293071254 | 1,264149605 | 1,634635515 |
| 16 | 44 | 0,611987252 | 0,790867627 | 0,773817553 | 1,292294283 | 1,264434105 | 1,634020965 |
| 15 | 45 | 0,61221728 | 0,790689574 | 0,774282728 | 1,291517897 | 1,264718839 | 1,633407015 |
| 14 | 46 | 0,612447256 | 0,790511454 | 0,774748112 | 1,290742093 | 1,265003809 | 1,632793664 |
| 13 | 47 | 0,612677181 | 0,790333266 | 0,775213707 | 1,289966872 | 1,265289015 | 1,632180912 |
| 12 | 48 | 0,612907054 | 0,790155012 | 0,775679511 | 1,289192232 | 1,265574456 | 1,631568758 |
| 11 | 49 | 0,613136874 | 0,789976692 | 0,776145526 | 1,288418173 | 1,265860133 | 1,6309572 |
| 10 | 50 | 0,613366643 | 0,789798304 | 0,776611751 | 1,287644694 | 1,266146047 | 1,630346239 |
| 9 | 51 | 0,613596361 | 0,789619849 | 0,777078187 | 1,286871794 | 1,266432196 | 1,629735873 |
| 8 | 52 | 0,613826026 | 0,789441328 | 0,777544833 | 1,286099473 | 1,266718583 | 1,629126101 |
| 7 | 53 | 0,614055639 | 0,78926274 | 0,778011691 | 1,285327729 | 1,267005206 | 1,628516924 |
| 6 | 54 | 0,6142852 | 0,789084085 | 0,77847876 | 1,284556562 | 1,267292066 | 1,627908339 |
| 5 | 55 | 0,614514709 | 0,788905363 | 0,778946041 | 1,283785971 | 1,267579163 | 1,627300347 |
| 4 | 56 | 0,614744167 | 0,788726575 | 0,779413534 | 1,283015956 | 1,267866498 | 1,626692947 |
| 3 | 57 | 0,614973572 | 0,788547719 | 0,779881238 | 1,282246515 | 1,26815407 | 1,626086137 |
| 2 | 58 | 0,615202925 | 0,788368798 | 0,780349155 | 1,281477648 | 1,26844188 | 1,625479918 |
| 1 | 59 | 0,615432226 | 0,788189809 | 0,780817284 | 1,280709354 | 1,268729929 | 1,624874287 |
| 0 | 60 | 0,615661475 | 0,788010754 | 0,781285627 | 1,279941632 | 1,269018215 | 1,624269245 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

52°

| 38° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,615661475 | 0,788010754 | 0,781285627 | 1,279941632 | 1,269018215 | 1,624269245 |
| 59 | 1 | 0,615890672 | 0,787831632 | 0,781754181 | 1,279174482 | 1,26930674 | 1,623664791 |
| 58 | 2 | 0,616119817 | 0,787652443 | 0,78222295 | 1,278407902 | 1,269595504 | 1,623060924 |
| 57 | 3 | 0,61634891 | 0,787473188 | 0,782691931 | 1,277641892 | 1,269884506 | 1,622457644 |
| 56 | 4 | 0,616577951 | 0,787293866 | 0,783161126 | 1,276876452 | 1,270173748 | 1,621854948 |
| 55 | 5 | 0,616806939 | 0,787114477 | 0,783630535 | 1,27611158 | 1,270463229 | 1,621252838 |
| 54 | 6 | 0,617035875 | 0,786935022 | 0,784100158 | 1,275347275 | 1,270752949 | 1,620651311 |
| 53 | 7 | 0,617264759 | 0,7867555 | 0,784569995 | 1,274583537 | 1,271042909 | 1,620050368 |
| 52 | 8 | 0,617493591 | 0,786575912 | 0,785040047 | 1,273820366 | 1,27133311 | 1,619450007 |
| 51 | 9 | 0,61772237 | 0,786396257 | 0,785510314 | 1,27305776 | 1,27162355 | 1,618850228 |
| 50 | 10 | 0,617951098 | 0,786216536 | 0,785980795 | 1,272295718 | 1,271914231 | 1,618251029 |
| 49 | 11 | 0,618179773 | 0,786036748 | 0,786451492 | 1,27153424 | 1,272205152 | 1,617652411 |
| 48 | 12 | 0,618408395 | 0,785856893 | 0,786922404 | 1,270773326 | 1,272496314 | 1,617054373 |
| 47 | 13 | 0,618636966 | 0,785676972 | 0,787393531 | 1,270012973 | 1,272787717 | 1,616456913 |
| 46 | 14 | 0,618865484 | 0,785496985 | 0,787864875 | 1,269253183 | 1,273079362 | 1,615860032 |
| 45 | 15 | 0,619093949 | 0,785316931 | 0,788336435 | 1,268493953 | 1,273371248 | 1,615263727 |
| 44 | 16 | 0,619322363 | 0,785136811 | 0,788808211 | 1,267735283 | 1,273663375 | 1,614667999 |
| 43 | 17 | 0,619550723 | 0,784956624 | 0,789280203 | 1,266977173 | 1,273955745 | 1,614072847 |
| 42 | 18 | 0,619779032 | 0,784776371 | 0,789752412 | 1,266219621 | 1,274248356 | 1,61347827 |
| 41 | 19 | 0,620007288 | 0,784596051 | 0,790224839 | 1,265462627 | 1,27454121 | 1,612884267 |
| 40 | 20 | 0,620235491 | 0,784415665 | 0,790697482 | 1,26470619 | 1,274834306 | 1,612290838 |
| 39 | 21 | 0,620463642 | 0,784235213 | 0,791170343 | 1,263950309 | 1,275127645 | 1,611697982 |
| 38 | 22 | 0,620691741 | 0,784054694 | 0,791643422 | 1,263194984 | 1,275421227 | 1,611105697 |
| 37 | 23 | 0,620919787 | 0,783874109 | 0,792116719 | 1,262440214 | 1,275715053 | 1,610513985 |
| 36 | 24 | 0,62114778 | 0,783693457 | 0,792590233 | 1,261685998 | 1,276009121 | 1,609922842 |
| 35 | 25 | 0,621375721 | 0,78351274 | 0,793063967 | 1,260932336 | 1,276303434 | 1,60933227 |
| 34 | 26 | 0,62160361 | 0,783331956 | 0,793537918 | 1,260179226 | 1,27659799 | 1,608742267 |
| 33 | 27 | 0,621831445 | 0,783151105 | 0,794012089 | 1,259426668 | 1,27689279 | 1,608152833 |
| 32 | 28 | 0,622059228 | 0,782970189 | 0,794486479 | 1,258674662 | 1,277187835 | 1,607563966 |
| 31 | 29 | 0,622286959 | 0,782789206 | 0,794961088 | 1,257923205 | 1,277483124 | 1,606975666 |
| 30 | 30 | 0,622514637 | 0,782608157 | 0,795435917 | 1,257172299 | 1,277778657 | 1,606387932 |
| 29 | 31 | 0,622742262 | 0,782427042 | 0,795910965 | 1,256421941 | 1,278074436 | 1,605800764 |
| 28 | 32 | 0,622969834 | 0,78224586 | 0,796386234 | 1,255672132 | 1,27837046 | 1,605214161 |
| 27 | 33 | 0,623197354 | 0,782064612 | 0,796861722 | 1,254922871 | 1,278666729 | 1,604628122 |
| 26 | 34 | 0,623424821 | 0,781883299 | 0,797337431 | 1,254174156 | 1,278963244 | 1,604042647 |
| 25 | 35 | 0,623652235 | 0,781701919 | 0,797813361 | 1,253425987 | 1,279260005 | 1,603457734 |
| 24 | 36 | 0,623879597 | 0,781520472 | 0,798289512 | 1,252678364 | 1,279557011 | 1,602873383 |
| 23 | 37 | 0,624106905 | 0,78133896 | 0,798765884 | 1,251931285 | 1,279854264 | 1,602289594 |
| 22 | 38 | 0,624334161 | 0,781157382 | 0,799242478 | 1,25118475 | 1,280151764 | 1,601706365 |
| 21 | 39 | 0,624561364 | 0,780975737 | 0,799719293 | 1,250438759 | 1,28044951 | 1,601123696 |
| 20 | 40 | 0,624788515 | 0,780794027 | 0,80019633 | 1,24969331 | 1,280747503 | 1,600541586 |
| 19 | 41 | 0,625015612 | 0,78061225 | 0,800673589 | 1,248948403 | 1,281045743 | 1,599960035 |
| 18 | 42 | 0,625242656 | 0,780430407 | 0,801151071 | 1,248204036 | 1,281344231 | 1,599379041 |
| 17 | 43 | 0,625469648 | 0,780248499 | 0,801628775 | 1,24746021 | 1,281642966 | 1,598798604 |
| 16 | 44 | 0,625696587 | 0,780066524 | 0,802106702 | 1,246716924 | 1,281941949 | 1,598218724 |
| 15 | 45 | 0,625923472 | 0,779884483 | 0,802584852 | 1,245974177 | 1,28224118 | 1,597639399 |
| 14 | 46 | 0,626150305 | 0,779702376 | 0,803063225 | 1,245231968 | 1,28254066 | 1,597060629 |
| 13 | 47 | 0,626377085 | 0,779520204 | 0,803541822 | 1,244490296 | 1,282840387 | 1,596482414 |
| 12 | 48 | 0,626603811 | 0,779337965 | 0,804020643 | 1,243749161 | 1,283140364 | 1,595904752 |
| 11 | 49 | 0,626830485 | 0,77915566 | 0,804499687 | 1,243008563 | 1,28344059 | 1,595327642 |
| 10 | 50 | 0,627057106 | 0,77897329 | 0,804978956 | 1,242268499 | 1,283741064 | 1,594751085 |
| 9 | 51 | 0,627283673 | 0,778790853 | 0,80545845 | 1,241528971 | 1,284041788 | 1,59417508 |
| 8 | 52 | 0,627510188 | 0,778608351 | 0,805938168 | 1,240789976 | 1,284342762 | 1,593599625 |
| 7 | 53 | 0,627736649 | 0,778425783 | 0,806418111 | 1,240051514 | 1,284643986 | 1,59302472 |
| 6 | 54 | 0,627963058 | 0,778243149 | 0,80689828 | 1,239313585 | 1,284945459 | 1,592450364 |
| 5 | 55 | 0,628189413 | 0,778060449 | 0,807378673 | 1,238576188 | 1,285247183 | 1,591876558 |
| 4 | 56 | 0,628415715 | 0,777877683 | 0,807859293 | 1,237839323 | 1,285549158 | 1,591303299 |
| 3 | 57 | 0,628641964 | 0,777694851 | 0,808340139 | 1,237102987 | 1,285851383 | 1,590730587 |
| 2 | 58 | 0,628868159 | 0,777511954 | 0,80882121 | 1,236367181 | 1,286153859 | 1,590158422 |
| 1 | 59 | 0,629094302 | 0,77732899 | 0,809302508 | 1,235631905 | 1,286456587 | 1,589586803 |
| 0 | 60 | 0,629320391 | 0,777145961 | 0,809784033 | 1,234897157 | 1,286759566 | 1,589015729 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

51°

| 39° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,629320391 | 0,777145961 | 0,809784033 | 1,234897157 | 1,286759566 | 1,589015729 |
| 59 | 1 | 0,629546427 | 0,776962867 | 0,810265785 | 1,234162936 | 1,287062797 | 1,5884452 |
| 58 | 2 | 0,62977241 | 0,776779706 | 0,810747764 | 1,233429242 | 1,287366279 | 1,587875214 |
| 57 | 3 | 0,629998339 | 0,77659648 | 0,81122997 | 1,232696075 | 1,287670014 | 1,587305772 |
| 56 | 4 | 0,630224215 | 0,776413188 | 0,811712404 | 1,231963433 | 1,287974001 | 1,586736872 |
| 55 | 5 | 0,630450038 | 0,77622983 | 0,812195066 | 1,231231317 | 1,28827824 | 1,586168514 |
| 54 | 6 | 0,630675807 | 0,776046407 | 0,812677955 | 1,230499724 | 1,288582733 | 1,585600697 |
| 53 | 7 | 0,630901523 | 0,775862918 | 0,813161074 | 1,229768655 | 1,288887478 | 1,585033421 |
| 52 | 8 | 0,631127186 | 0,775679363 | 0,813644421 | 1,229038109 | 1,289192477 | 1,584466684 |
| 51 | 9 | 0,631352795 | 0,775495743 | 0,814127996 | 1,228308085 | 1,289497729 | 1,583900487 |
| 50 | 10 | 0,631578351 | 0,775312057 | 0,814611801 | 1,227578583 | 1,289803235 | 1,583334828 |
| 49 | 11 | 0,631803854 | 0,775128306 | 0,815095835 | 1,226849601 | 1,290108996 | 1,582769706 |
| 48 | 12 | 0,632029303 | 0,774944489 | 0,815580099 | 1,226121139 | 1,29041501 | 1,582205122 |
| 47 | 13 | 0,632254698 | 0,774760606 | 0,816064592 | 1,225393197 | 1,290721279 | 1,581641074 |
| 46 | 14 | 0,63248004 | 0,774576658 | 0,816549316 | 1,224665774 | 1,291027802 | 1,581077562 |
| 45 | 15 | 0,632705329 | 0,774392644 | 0,81703427 | 1,223938869 | 1,29133458 | 1,580514585 |
| 44 | 16 | 0,632930563 | 0,774208565 | 0,817519454 | 1,223212481 | 1,291641614 | 1,579952143 |
| 43 | 17 | 0,633155745 | 0,77402442 | 0,81800487 | 1,22248661 | 1,291948903 | 1,579390234 |
| 42 | 18 | 0,633380873 | 0,77384021 | 0,818490516 | 1,221761255 | 1,292256447 | 1,578828858 |
| 41 | 19 | 0,633605947 | 0,773655934 | 0,818976394 | 1,221036415 | 1,292564247 | 1,578268015 |
| 40 | 20 | 0,633830967 | 0,773471593 | 0,819462503 | 1,22031209 | 1,292872304 | 1,577707704 |
| 39 | 21 | 0,634055934 | 0,773287186 | 0,819948844 | 1,219588279 | 1,293180617 | 1,577147923 |
| 38 | 22 | 0,634280848 | 0,773102714 | 0,820435417 | 1,218864982 | 1,293489186 | 1,576588673 |
| 37 | 23 | 0,634505707 | 0,772918176 | 0,820922223 | 1,218142197 | 1,293798012 | 1,576029953 |
| 36 | 24 | 0,634730513 | 0,772733573 | 0,821409261 | 1,217419925 | 1,294107095 | 1,575471762 |
| 35 | 25 | 0,634955265 | 0,772548905 | 0,821896531 | 1,216698163 | 1,294416435 | 1,574914099 |
| 34 | 26 | 0,635179964 | 0,772364172 | 0,822384035 | 1,215976913 | 1,294726033 | 1,574356965 |
| 33 | 27 | 0,635404609 | 0,772179372 | 0,822871772 | 1,215256172 | 1,295035889 | 1,573800357 |
| 32 | 28 | 0,6356292 | 0,771994508 | 0,823359743 | 1,214535941 | 1,295346002 | 1,573244276 |
| 31 | 29 | 0,635853737 | 0,771809578 | 0,823847947 | 1,213816218 | 1,295656374 | 1,572688721 |
| 30 | 30 | 0,63607822 | 0,771624583 | 0,824336386 | 1,213097004 | 1,295967005 | 1,572133691 |
| 29 | 31 | 0,63630265 | 0,771439523 | 0,824825059 | 1,212378297 | 1,296277894 | 1,571579185 |
| 28 | 32 | 0,636527026 | 0,771254398 | 0,825313966 | 1,211660097 | 1,296589041 | 1,571025204 |
| 27 | 33 | 0,636751347 | 0,771069207 | 0,825803108 | 1,210942403 | 1,296900449 | 1,570471745 |
| 26 | 34 | 0,636975615 | 0,770883951 | 0,826292485 | 1,210225214 | 1,297212115 | 1,56991881 |
| 25 | 35 | 0,63719983 | 0,770698629 | 0,826782098 | 1,20950853 | 1,297524041 | 1,569366396 |
| 24 | 36 | 0,63742399 | 0,770513243 | 0,827271946 | 1,20879235 | 1,297836227 | 1,568814504 |
| 23 | 37 | 0,637648096 | 0,770327791 | 0,82776203 | 1,208076674 | 1,298148673 | 1,568263132 |
| 22 | 38 | 0,637872148 | 0,770142274 | 0,82825235 | 1,207361501 | 1,29846138 | 1,56771228 |
| 21 | 39 | 0,638096147 | 0,769956692 | 0,828742906 | 1,206646829 | 1,298774347 | 1,567161948 |
| 20 | 40 | 0,638320091 | 0,769771045 | 0,829233699 | 1,20593266 | 1,299087575 | 1,566612134 |
| 19 | 41 | 0,638543981 | 0,769585333 | 0,829724729 | 1,205218991 | 1,299401064 | 1,566062839 |
| 18 | 42 | 0,638767818 | 0,769399555 | 0,830215995 | 1,204505822 | 1,299714815 | 1,565514061 |
| 17 | 43 | 0,6389916 | 0,769213712 | 0,8307075 | 1,203793153 | 1,300028827 | 1,5649658 |
| 16 | 44 | 0,639215328 | 0,769027805 | 0,831199241 | 1,203080983 | 1,3003431 | 1,564418055 |
| 15 | 45 | 0,639439002 | 0,768841832 | 0,831691221 | 1,202369311 | 1,300657636 | 1,563870826 |
| 14 | 46 | 0,639662622 | 0,768655794 | 0,832183439 | 1,201658137 | 1,300972435 | 1,563324111 |
| 13 | 47 | 0,639886188 | 0,768469691 | 0,832675895 | 1,200947459 | 1,301287495 | 1,562777911 |
| 12 | 48 | 0,640109699 | 0,768283524 | 0,833168589 | 1,200237278 | 1,301602819 | 1,562232225 |
| 11 | 49 | 0,640333157 | 0,768097291 | 0,833661523 | 1,199527593 | 1,301918405 | 1,561687052 |
| 10 | 50 | 0,64055656 | 0,767910993 | 0,834154695 | 1,198818403 | 1,302234255 | 1,561142391 |
| 9 | 51 | 0,64077991 | 0,76772463 | 0,834648107 | 1,198109708 | 1,302550369 | 1,560598242 |
| 8 | 52 | 0,641003204 | 0,767538202 | 0,835141759 | 1,197401506 | 1,302866746 | 1,560054604 |
| 7 | 53 | 0,641226445 | 0,767351709 | 0,835635651 | 1,196693797 | 1,303183387 | 1,559511476 |
| 6 | 54 | 0,641449632 | 0,767165152 | 0,836129783 | 1,195986581 | 1,303500293 | 1,558968859 |
| 5 | 55 | 0,641672764 | 0,766978529 | 0,836624155 | 1,195279857 | 1,303817463 | 1,55842675 |
| 4 | 56 | 0,641895842 | 0,766791842 | 0,837118768 | 1,194573624 | 1,304134898 | 1,557885151 |
| 3 | 57 | 0,642118865 | 0,766605089 | 0,837613621 | 1,193867882 | 1,304452597 | 1,557344059 |
| 2 | 58 | 0,642341834 | 0,766418272 | 0,838108716 | 1,19316263 | 1,304770562 | 1,556803475 |
| 1 | 59 | 0,642564749 | 0,76623139 | 0,838604053 | 1,192457867 | 1,305088793 | 1,556263398 |
| 0 | 60 | 0,64278761 | 0,766044443 | 0,839099631 | 1,191753593 | 1,305407289 | 1,555723827 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

50°

| 40° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,64278761 | 0,766044443 | 0,839099631 | 1,191753593 | 1,305407289 | 1,555723827 |
| 59 | 1 | 0,643010416 | 0,765857431 | 0,839595451 | 1,191049807 | 1,305726052 | 1,555184761 |
| 58 | 2 | 0,643233167 | 0,765670355 | 0,840091514 | 1,190346508 | 1,30604508 | 1,554646201 |
| 57 | 3 | 0,643455865 | 0,765483213 | 0,840587819 | 1,189643697 | 1,306364375 | 1,554108144 |
| 56 | 4 | 0,643678508 | 0,765296007 | 0,841084366 | 1,188941371 | 1,306683937 | 1,553570592 |
| 55 | 5 | 0,643901096 | 0,765108737 | 0,841581157 | 1,188239532 | 1,307003766 | 1,553033543 |
| 54 | 6 | 0,64412363 | 0,764921401 | 0,842078191 | 1,187538177 | 1,307323862 | 1,552496996 |
| 53 | 7 | 0,644346109 | 0,764734001 | 0,842575469 | 1,186837306 | 1,307644226 | 1,551960951 |
| 52 | 8 | 0,644568534 | 0,764546536 | 0,84307299 | 1,18613692 | 1,307964857 | 1,551425407 |
| 51 | 9 | 0,644790904 | 0,764359006 | 0,843570756 | 1,185437017 | 1,308285756 | 1,550890364 |
| 50 | 10 | 0,64501322 | 0,764171411 | 0,844068766 | 1,184737596 | 1,308606924 | 1,550355821 |
| 49 | 11 | 0,645235481 | 0,763983752 | 0,84456702 | 1,184038657 | 1,30892836 | 1,549821777 |
| 48 | 12 | 0,645457688 | 0,763796029 | 0,845065519 | 1,183340199 | 1,309250065 | 1,549288232 |
| 47 | 13 | 0,64567984 | 0,76360824 | 0,845564264 | 1,182642222 | 1,309572039 | 1,548755186 |
| 46 | 14 | 0,645901937 | 0,763420387 | 0,846063254 | 1,181944725 | 1,309894282 | 1,548222637 |
| 45 | 15 | 0,64612398 | 0,76323247 | 0,846562489 | 1,181247708 | 1,310216794 | 1,547690585 |
| 44 | 16 | 0,646345968 | 0,763044488 | 0,847061971 | 1,180551169 | 1,310539577 | 1,54715903 |
| 43 | 17 | 0,646567901 | 0,762856441 | 0,847561699 | 1,179855109 | 1,310862629 | 1,54662797 |
| 42 | 18 | 0,64678978 | 0,76266833 | 0,848061673 | 1,179159526 | 1,311185952 | 1,546097405 |
| 41 | 19 | 0,647011603 | 0,762480154 | 0,848561894 | 1,17846442 | 1,311509545 | 1,545567336 |
| 40 | 20 | 0,647233372 | 0,762291914 | 0,849062362 | 1,177769791 | 1,311833409 | 1,54503776 |
| 39 | 21 | 0,647455087 | 0,762103609 | 0,849563077 | 1,177075637 | 1,312157545 | 1,544508678 |
| 38 | 22 | 0,647676746 | 0,76191524 | 0,85006404 | 1,176381959 | 1,312481951 | 1,543980088 |
| 37 | 23 | 0,647898351 | 0,761726806 | 0,85056525 | 1,175688755 | 1,312806629 | 1,543451991 |
| 36 | 24 | 0,648119901 | 0,761538308 | 0,851066709 | 1,174996025 | 1,313131579 | 1,542924385 |
| 35 | 25 | 0,648341396 | 0,761349745 | 0,851568416 | 1,174303769 | 1,313456801 | 1,542397271 |
| 34 | 26 | 0,648562836 | 0,761161118 | 0,852070371 | 1,173611985 | 1,313782295 | 1,541870647 |
| 33 | 27 | 0,648784222 | 0,760972426 | 0,852572576 | 1,172920674 | 1,314108061 | 1,541344513 |
| 32 | 28 | 0,649005552 | 0,76078367 | 0,85307503 | 1,172229834 | 1,314434101 | 1,540818868 |
| 31 | 29 | 0,649226828 | 0,76059485 | 0,853577733 | 1,171539465 | 1,314760414 | 1,540293711 |
| 30 | 30 | 0,649448048 | 0,760405966 | 0,854080685 | 1,170849566 | 1,315087 | 1,539769043 |
| 29 | 31 | 0,649669214 | 0,760217017 | 0,854583888 | 1,170160137 | 1,31541386 | 1,539244863 |
| 28 | 32 | 0,649890325 | 0,760028003 | 0,855087341 | 1,169471178 | 1,315740993 | 1,538721169 |
| 27 | 33 | 0,65011138 | 0,759838926 | 0,855591045 | 1,168782687 | 1,316068401 | 1,538197962 |
| 26 | 34 | 0,650332381 | 0,759649784 | 0,856094999 | 1,168094664 | 1,316396083 | 1,53767524 |
| 25 | 35 | 0,650553327 | 0,759460578 | 0,856599204 | 1,167407108 | 1,31672404 | 1,537153003 |
| 24 | 36 | 0,650774217 | 0,759271307 | 0,857103661 | 1,166720019 | 1,317052271 | 1,536631252 |
| 23 | 37 | 0,650995053 | 0,759081973 | 0,857608369 | 1,166033397 | 1,317380778 | 1,536109984 |
| 22 | 38 | 0,651215833 | 0,758892574 | 0,85811333 | 1,16534724 | 1,317709561 | 1,535589199 |
| 21 | 39 | 0,651436559 | 0,758703111 | 0,858618542 | 1,164661548 | 1,318038619 | 1,535068898 |
| 20 | 40 | 0,651657229 | 0,758513583 | 0,859124007 | 1,16397632 | 1,318367953 | 1,534549079 |
| 19 | 41 | 0,651877844 | 0,758323992 | 0,859629724 | 1,163291557 | 1,318697563 | 1,534029741 |
| 18 | 42 | 0,652098404 | 0,758134336 | 0,860135695 | 1,162607256 | 1,31902745 | 1,533510884 |
| 17 | 43 | 0,652318909 | 0,757944616 | 0,860641918 | 1,161923419 | 1,319357613 | 1,532992508 |
| 16 | 44 | 0,652539358 | 0,757754832 | 0,861148395 | 1,161240043 | 1,319688054 | 1,532474613 |
| 15 | 45 | 0,652759752 | 0,757564984 | 0,861655127 | 1,160557129 | 1,320018771 | 1,531957196 |
| 14 | 46 | 0,652980092 | 0,757375072 | 0,862162112 | 1,159874676 | 1,320349767 | 1,531440258 |
| 13 | 47 | 0,653200375 | 0,757185096 | 0,862669351 | 1,159192683 | 1,32068104 | 1,530923799 |
| 12 | 48 | 0,653420604 | 0,756995056 | 0,863176845 | 1,15851115 | 1,321012591 | 1,530407817 |
| 11 | 49 | 0,653640777 | 0,756804951 | 0,863684594 | 1,157830077 | 1,321344421 | 1,529892312 |
| 10 | 50 | 0,653860895 | 0,756614783 | 0,864192598 | 1,157149462 | 1,321676529 | 1,529377284 |
| 9 | 51 | 0,654080958 | 0,75642455 | 0,864700858 | 1,156469304 | 1,322008916 | 1,528862732 |
| 8 | 52 | 0,654300965 | 0,756234254 | 0,865209374 | 1,155789605 | 1,322341582 | 1,528348655 |
| 7 | 53 | 0,654520917 | 0,756043894 | 0,865718145 | 1,155110362 | 1,322674528 | 1,527835053 |
| 6 | 54 | 0,654740814 | 0,755853469 | 0,866227173 | 1,154431576 | 1,323007753 | 1,527321925 |
| 5 | 55 | 0,654960655 | 0,755662981 | 0,866736457 | 1,153753245 | 1,323341258 | 1,526809271 |
| 4 | 56 | 0,655180441 | 0,755472429 | 0,867245999 | 1,153075369 | 1,323675044 | 1,52629709 |
| 3 | 57 | 0,655400171 | 0,755281812 | 0,867755797 | 1,152397948 | 1,32400911 | 1,525785382 |
| 2 | 58 | 0,655619846 | 0,755091132 | 0,868265853 | 1,151720981 | 1,324343457 | 1,525274145 |
| 1 | 59 | 0,655839465 | 0,754900388 | 0,868776166 | 1,151044468 | 1,324678084 | 1,524763381 |
| 0 | 60 | 0,656059029 | 0,75470958 | 0,869286738 | 1,150368407 | 1,325012993 | 1,524253087 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

49°

| 41° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Sec | Cosec |
| 60 | 0 | 0,656059029 | 0,75470958 | 0,869286738 | 1,150368407 | 1,325012993 | 1,524253087 |
| 59 | 1 | 0,656278537 | 0,754518708 | 0,869797568 | 1,149692799 | 1,325348184 | 1,523743263 |
| 58 | 2 | 0,65649799 | 0,754327773 | 0,870308656 | 1,149017642 | 1,325683656 | 1,523233909 |
| 57 | 3 | 0,656717387 | 0,754136773 | 0,870820003 | 1,148342937 | 1,326019411 | 1,522725025 |
| 56 | 4 | 0,656936729 | 0,75394571 | 0,87133161 | 1,147668682 | 1,326355448 | 1,522216609 |
| 55 | 5 | 0,657156015 | 0,753754583 | 0,871843475 | 1,146994877 | 1,326691767 | 1,521708661 |
| 54 | 6 | 0,657375246 | 0,753563392 | 0,872355601 | 1,146321522 | 1,32702837 | 1,521201181 |
| 53 | 7 | 0,657594421 | 0,753372138 | 0,872867986 | 1,145648616 | 1,327365255 | 1,520694167 |
| 52 | 8 | 0,65781354 | 0,753180819 | 0,873380632 | 1,144976158 | 1,327702425 | 1,52018762 |
| 51 | 9 | 0,658032604 | 0,752989437 | 0,873893538 | 1,144304147 | 1,328039877 | 1,51968154 |
| 50 | 10 | 0,658251611 | 0,752797992 | 0,874406705 | 1,143632584 | 1,328377614 | 1,519175924 |
| 49 | 11 | 0,658470564 | 0,752606482 | 0,874920133 | 1,142961468 | 1,328715635 | 1,518670773 |
| 48 | 12 | 0,65868946 | 0,752414909 | 0,875433823 | 1,142290798 | 1,329053941 | 1,518166087 |
| 47 | 13 | 0,658908301 | 0,752223272 | 0,875947774 | 1,141620573 | 1,329392532 | 1,517661864 |
| 46 | 14 | 0,659127086 | 0,752031572 | 0,876461987 | 1,140950793 | 1,329731407 | 1,517158104 |
| 45 | 15 | 0,659345815 | 0,751839807 | 0,876976463 | 1,140281458 | 1,330070568 | 1,516654807 |
| 44 | 16 | 0,659564489 | 0,75164798 | 0,877491201 | 1,139612567 | 1,330410015 | 1,516151972 |
| 43 | 17 | 0,659783106 | 0,751456088 | 0,878006202 | 1,138944119 | 1,330749748 | 1,515649599 |
| 42 | 18 | 0,660001668 | 0,751264134 | 0,878521466 | 1,138276113 | 1,331089766 | 1,515147686 |
| 41 | 19 | 0,660220174 | 0,751072115 | 0,879036994 | 1,13760855 | 1,331430072 | 1,514646234 |
| 40 | 20 | 0,660438624 | 0,750880033 | 0,879552785 | 1,136941429 | 1,331770664 | 1,514145242 |
| 39 | 21 | 0,660657018 | 0,750687887 | 0,88006884 | 1,136274749 | 1,332111543 | 1,513644709 |
| 38 | 22 | 0,660875357 | 0,750495678 | 0,880585159 | 1,135608509 | 1,332452709 | 1,513144635 |
| 37 | 23 | 0,661093639 | 0,750303406 | 0,881101743 | 1,134942709 | 1,332794164 | 1,512645019 |
| 36 | 24 | 0,661311865 | 0,75011107 | 0,881618592 | 1,134277349 | 1,333135905 | 1,512145861 |
| 35 | 25 | 0,661530036 | 0,74991867 | 0,882135706 | 1,133612428 | 1,333477936 | 1,51164716 |
| 34 | 26 | 0,66174815 | 0,749726207 | 0,882653086 | 1,132947945 | 1,333820254 | 1,511148916 |
| 33 | 27 | 0,661966209 | 0,749533681 | 0,883170731 | 1,1322839 | 1,334162861 | 1,510651128 |
| 32 | 28 | 0,662184211 | 0,749341091 | 0,883688643 | 1,131620292 | 1,334505758 | 1,510153795 |
| 31 | 29 | 0,662402158 | 0,749148437 | 0,88420682 | 1,130957121 | 1,334848943 | 1,509656918 |
| 30 | 30 | 0,662620048 | 0,748955721 | 0,884725265 | 1,130294386 | 1,335192418 | 1,509160495 |
| 29 | 31 | 0,662837883 | 0,748762941 | 0,885243976 | 1,129632087 | 1,335536183 | 1,508664526 |
| 28 | 32 | 0,663055661 | 0,748570097 | 0,885762954 | 1,128970223 | 1,335880238 | 1,508169011 |
| 27 | 33 | 0,663273383 | 0,748377191 | 0,8862822 | 1,128308794 | 1,336224584 | 1,507673948 |
| 26 | 34 | 0,663491049 | 0,748184221 | 0,886801714 | 1,127647798 | 1,33656922 | 1,507179338 |
| 25 | 35 | 0,663708659 | 0,747991187 | 0,887321496 | 1,126987236 | 1,336914147 | 1,50668518 |
| 24 | 36 | 0,663926213 | 0,74779809 | 0,887841546 | 1,126327107 | 1,337259365 | 1,506191473 |
| 23 | 37 | 0,66414371 | 0,747604931 | 0,888361865 | 1,125667411 | 1,337604875 | 1,505698217 |
| 22 | 38 | 0,664361152 | 0,747411707 | 0,888882453 | 1,125008146 | 1,337950677 | 1,505205411 |
| 21 | 39 | 0,664578537 | 0,747218421 | 0,88940331 | 1,124349313 | 1,338296771 | 1,504713055 |
| 20 | 40 | 0,664795866 | 0,747025071 | 0,889924437 | 1,12369091 | 1,338643157 | 1,504221148 |
| 19 | 41 | 0,665013138 | 0,746831658 | 0,890445833 | 1,123032938 | 1,338989836 | 1,50372969 |
| 18 | 42 | 0,665230355 | 0,746638182 | 0,8909675 | 1,122375395 | 1,339336808 | 1,50323868 |
| 17 | 43 | 0,665447515 | 0,746444643 | 0,891489437 | 1,121718282 | 1,339684073 | 1,502748117 |
| 16 | 44 | 0,665664619 | 0,746251041 | 0,892011645 | 1,121061597 | 1,340031632 | 1,502258002 |
| 15 | 45 | 0,665881666 | 0,746057375 | 0,892534124 | 1,120405341 | 1,340379485 | 1,501768334 |
| 14 | 46 | 0,666098657 | 0,745863646 | 0,893056875 | 1,119749512 | 1,340727631 | 1,501279111 |
| 13 | 47 | 0,666315592 | 0,745669855 | 0,893579897 | 1,11909411 | 1,341076073 | 1,500790334 |
| 12 | 48 | 0,66653247 | 0,745476 | 0,894103191 | 1,118439135 | 1,341424808 | 1,500302003 |
| 11 | 49 | 0,666749292 | 0,745282082 | 0,894626758 | 1,117784586 | 1,341773839 | 1,499814116 |
| 10 | 50 | 0,666966058 | 0,745088101 | 0,895150597 | 1,117130463 | 1,342123165 | 1,499326672 |
| 9 | 51 | 0,667182767 | 0,744894057 | 0,895674708 | 1,116476764 | 1,342472787 | 1,498839673 |
| 8 | 52 | 0,66739942 | 0,744699949 | 0,896199093 | 1,11582349 | 1,342822704 | 1,498353116 |
| 7 | 53 | 0,667616016 | 0,744505779 | 0,896723752 | 1,11517064 | 1,343172918 | 1,497867002 |
| 6 | 54 | 0,667832555 | 0,744311546 | 0,897248684 | 1,114518213 | 1,343523428 | 1,49738133 |
| 5 | 55 | 0,668049039 | 0,74411725 | 0,897773891 | 1,113866209 | 1,343874235 | 1,496896099 |
| 4 | 56 | 0,668265465 | 0,743922891 | 0,898299371 | 1,113214627 | 1,344225338 | 1,496411309 |
| 3 | 57 | 0,668481835 | 0,743728469 | 0,898825127 | 1,112563468 | 1,34457674 | 1,49592696 |
| 2 | 58 | 0,668698149 | 0,743533984 | 0,899351157 | 1,11191273 | 1,344928438 | 1,495443051 |
| 1 | 59 | 0,668914406 | 0,743339436 | 0,899877463 | 1,111262412 | 1,345280435 | 1,494959581 |
| 0 | 60 | 0,669130606 | 0,743144825 | 0,900404044 | 1,110612515 | 1,34563273 | 1,49447655 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

48°

42°

| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| 60 | 0 | 0,669130606 | 0,743144825 | 0,900404044 | 1,110612515 | 1,34563273 | 1,49447655 |
| 59 | 1 | 0,66934675 | 0,742950152 | 0,900930902 | 1,109963037 | 1,345985323 | 1,493993957 |
| 58 | 2 | 0,669562837 | 0,742755415 | 0,901458035 | 1,109313979 | 1,346338215 | 1,493511803 |
| 57 | 3 | 0,669778868 | 0,742560616 | 0,901985445 | 1,10866534 | 1,346691406 | 1,493030085 |
| 56 | 4 | 0,669994841 | 0,742365754 | 0,902513132 | 1,108017119 | 1,347044897 | 1,492548805 |
| 55 | 5 | 0,670210759 | 0,742170829 | 0,903041096 | 1,107369315 | 1,347398687 | 1,492067961 |
| 54 | 6 | 0,670426619 | 0,741975841 | 0,903569337 | 1,106721929 | 1,347752777 | 1,491587553 |
| 53 | 7 | 0,670642423 | 0,74178079 | 0,904097857 | 1,106074959 | 1,348107167 | 1,49110758 |
| 52 | 8 | 0,67085817 | 0,741585677 | 0,904626654 | 1,105428406 | 1,348461858 | 1,490628042 |
| 51 | 9 | 0,67107386 | 0,741390501 | 0,905155729 | 1,104782268 | 1,34881685 | 1,490148939 |
| 50 | 10 | 0,671289493 | 0,741195262 | 0,905685084 | 1,104136546 | 1,349172143 | 1,48967027 |
| 49 | 11 | 0,67150507 | 0,740999961 | 0,906214717 | 1,103491238 | 1,349527737 | 1,489192033 |
| 48 | 12 | 0,671720589 | 0,740804596 | 0,90674463 | 1,102846344 | 1,349883633 | 1,48871423 |
| 47 | 13 | 0,671936052 | 0,740609169 | 0,907274822 | 1,102201864 | 1,350239831 | 1,488236859 |
| 46 | 14 | 0,672151458 | 0,74041368 | 0,907805294 | 1,101557797 | 1,350596332 | 1,48775992 |
| 45 | 15 | 0,672366807 | 0,740218127 | 0,908336046 | 1,100914143 | 1,350953135 | 1,487283413 |
| 44 | 16 | 0,6725821 | 0,740022513 | 0,908867079 | 1,100270901 | 1,351310241 | 1,486807336 |
| 43 | 17 | 0,672797335 | 0,739826835 | 0,909398393 | 1,09962807 | 1,351667651 | 1,48633169 |
| 42 | 18 | 0,673012514 | 0,739631095 | 0,909929988 | 1,098985651 | 1,352025363 | 1,485856474 |
| 41 | 19 | 0,673227635 | 0,739435292 | 0,910461865 | 1,098343642 | 1,35238338 | 1,485381687 |
| 40 | 20 | 0,6734427 | 0,739239427 | 0,910994023 | 1,097702043 | 1,352741701 | 1,484907329 |
| 39 | 21 | 0,673657707 | 0,739043499 | 0,911526463 | 1,097060854 | 1,353100326 | 1,484433399 |
| 38 | 22 | 0,673872658 | 0,738847509 | 0,912059186 | 1,096420074 | 1,353459256 | 1,483959898 |
| 37 | 23 | 0,674087551 | 0,738651456 | 0,912592192 | 1,095779702 | 1,353818492 | 1,483486824 |
| 36 | 24 | 0,674302388 | 0,738455341 | 0,91312548 | 1,095139739 | 1,354178032 | 1,483014176 |
| 35 | 25 | 0,674517167 | 0,738259163 | 0,913659052 | 1,094500183 | 1,354537878 | 1,482541956 |
| 34 | 26 | 0,674731889 | 0,738062922 | 0,914192908 | 1,093861034 | 1,35489803 | 1,482070161 |
| 33 | 27 | 0,674946555 | 0,73786662 | 0,914727048 | 1,093222292 | 1,355258489 | 1,481598792 |
| 32 | 28 | 0,675161163 | 0,737670254 | 0,915261472 | 1,092583957 | 1,355619254 | 1,481127848 |
| 31 | 29 | 0,675375714 | 0,737473827 | 0,91579618 | 1,091946026 | 1,355980326 | 1,480657328 |
| 30 | 30 | 0,675590208 | 0,737277337 | 0,916331174 | 1,091308501 | 1,356341705 | 1,480187233 |
| 29 | 31 | 0,675804644 | 0,737080784 | 0,916866453 | 1,090671381 | 1,356703392 | 1,479717561 |
| 28 | 32 | 0,676019024 | 0,73688417 | 0,917402017 | 1,090034664 | 1,357065386 | 1,479248312 |
| 27 | 33 | 0,676233346 | 0,736687492 | 0,917937868 | 1,089398351 | 1,357427688 | 1,478779486 |
| 26 | 34 | 0,676447611 | 0,736490753 | 0,918474005 | 1,088762442 | 1,357790299 | 1,478311082 |
| 25 | 35 | 0,676661819 | 0,736293951 | 0,919010428 | 1,088126935 | 1,358153219 | 1,477843099 |
| 24 | 36 | 0,67687597 | 0,736097087 | 0,919547138 | 1,08749183 | 1,358516448 | 1,477375538 |
| 23 | 37 | 0,677090063 | 0,735900161 | 0,920084135 | 1,086857127 | 1,358879986 | 1,476908398 |
| 22 | 38 | 0,677304099 | 0,735703172 | 0,92062142 | 1,086222825 | 1,359243834 | 1,476441677 |
| 21 | 39 | 0,677518078 | 0,735506121 | 0,921158993 | 1,085588924 | 1,359607991 | 1,475975377 |
| 20 | 40 | 0,677731999 | 0,735309008 | 0,921696854 | 1,084955423 | 1,359972459 | 1,475509495 |
| 19 | 41 | 0,677945863 | 0,735111833 | 0,922235003 | 1,084322322 | 1,360337238 | 1,475044033 |
| 18 | 42 | 0,67815967 | 0,734914595 | 0,922773441 | 1,08368962 | 1,360702327 | 1,474578988 |
| 17 | 43 | 0,678373419 | 0,734717295 | 0,923312168 | 1,083057317 | 1,361067728 | 1,474114362 |
| 16 | 44 | 0,678587111 | 0,734519933 | 0,923851185 | 1,082425412 | 1,36143344 | 1,473650153 |
| 15 | 45 | 0,678800746 | 0,734322509 | 0,924390492 | 1,081793905 | 1,361799464 | 1,473186361 |
| 14 | 46 | 0,679014323 | 0,734125023 | 0,924930088 | 1,081162796 | 1,362165801 | 1,472722985 |
| 13 | 47 | 0,679227842 | 0,733927475 | 0,925469975 | 1,080532083 | 1,362532449 | 1,472260025 |
| 12 | 48 | 0,679441304 | 0,733729865 | 0,926010153 | 1,079901766 | 1,362899411 | 1,471797481 |
| 11 | 49 | 0,679654709 | 0,733532192 | 0,926550622 | 1,079271846 | 1,363266685 | 1,471335352 |
| 10 | 50 | 0,679868056 | 0,733334457 | 0,927091383 | 1,07864232 | 1,363634273 | 1,470873637 |
| 9 | 51 | 0,680081346 | 0,733136661 | 0,927632435 | 1,07801319 | 1,364002175 | 1,470412336 |
| 8 | 52 | 0,680294578 | 0,732938802 | 0,928173779 | 1,077384454 | 1,364370391 | 1,469951449 |
| 7 | 53 | 0,680507752 | 0,732740881 | 0,928715415 | 1,076756112 | 1,364738921 | 1,469490975 |
| 6 | 54 | 0,680720869 | 0,732542899 | 0,929257345 | 1,076128164 | 1,365107766 | 1,469030914 |
| 5 | 55 | 0,680933928 | 0,732344854 | 0,929799567 | 1,075500608 | 1,365476926 | 1,468571264 |
| 4 | 56 | 0,68114693 | 0,732146747 | 0,930342083 | 1,074873446 | 1,365846401 | 1,468112027 |
| 3 | 57 | 0,681359874 | 0,731948579 | 0,930884892 | 1,074246675 | 1,366216192 | 1,467653201 |
| 2 | 58 | 0,68157276 | 0,731750348 | 0,931427996 | 1,073620296 | 1,366586298 | 1,467194786 |
| 1 | 59 | 0,681785589 | 0,731552056 | 0,931971394 | 1,072994307 | 1,366956721 | 1,466736781 |
| 0 | 60 | 0,68199836 | 0,731353702 | 0,932515086 | 1,07236871 | 1,367327461 | 1,466279186 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

47°

| 43° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,68199836 | 0,731353702 | 0,932515086 | 1,07236871 | 1,367327461 | 1,466279186 |
| 59 | 1 | 0,682211073 | 0,731155285 | 0,933059074 | 1,071743503 | 1,367698518 | 1,465822 |
| 58 | 2 | 0,682423729 | 0,730956807 | 0,933603357 | 1,071118685 | 1,368069891 | 1,465365223 |
| 57 | 3 | 0,682636327 | 0,730758267 | 0,934147935 | 1,070494257 | 1,368441583 | 1,464908855 |
| 56 | 4 | 0,682848867 | 0,730559666 | 0,93469281 | 1,069870217 | 1,368813592 | 1,464452895 |
| 55 | 5 | 0,683061349 | 0,730361002 | 0,935237981 | 1,069246566 | 1,369185919 | 1,463997343 |
| 54 | 6 | 0,683273774 | 0,730162277 | 0,935783449 | 1,068623303 | 1,369558565 | 1,463542197 |
| 53 | 7 | 0,68348614 | 0,729963489 | 0,936329214 | 1,068000427 | 1,36993153 | 1,463087458 |
| 52 | 8 | 0,683698449 | 0,729764641 | 0,936875276 | 1,067377937 | 1,370304814 | 1,462633126 |
| 51 | 9 | 0,6839107 | 0,72956573 | 0,937421636 | 1,066755835 | 1,370678417 | 1,462179199 |
| 50 | 10 | 0,684122893 | 0,729366757 | 0,937968294 | 1,066134118 | 1,371052341 | 1,461725678 |
| 49 | 11 | 0,684335029 | 0,729167723 | 0,938515251 | 1,065512787 | 1,371426584 | 1,461272561 |
| 48 | 12 | 0,684547106 | 0,728968627 | 0,939062506 | 1,06489184 | 1,371801148 | 1,460819849 |
| 47 | 13 | 0,684759125 | 0,72876947 | 0,93961006 | 1,064271279 | 1,372176033 | 1,460367541 |
| 46 | 14 | 0,684971087 | 0,728570251 | 0,940157914 | 1,063651101 | 1,372551239 | 1,459915636 |
| 45 | 15 | 0,68518299 | 0,72837097 | 0,940706067 | 1,063031307 | 1,372926766 | 1,459464135 |
| 44 | 16 | 0,685394836 | 0,728171627 | 0,94125452 | 1,062411896 | 1,373302615 | 1,459013036 |
| 43 | 17 | 0,685606623 | 0,727972223 | 0,941803274 | 1,061792869 | 1,373678786 | 1,458562339 |
| 42 | 18 | 0,685818353 | 0,727772758 | 0,942352329 | 1,061174223 | 1,37405528 | 1,458112043 |
| 41 | 19 | 0,686030024 | 0,72757323 | 0,942901684 | 1,060555959 | 1,374432096 | 1,457662149 |
| 40 | 20 | 0,686241638 | 0,727373642 | 0,943451341 | 1,059938076 | 1,374809235 | 1,457212656 |
| 39 | 21 | 0,686453193 | 0,727173991 | 0,9440013 | 1,059320575 | 1,375186698 | 1,456763564 |
| 38 | 22 | 0,686664691 | 0,726974279 | 0,944551561 | 1,058703454 | 1,375564485 | 1,456314871 |
| 37 | 23 | 0,68687613 | 0,726774506 | 0,945102125 | 1,058086712 | 1,375942596 | 1,455866577 |
| 36 | 24 | 0,687087511 | 0,726574671 | 0,945652991 | 1,057470351 | 1,376321031 | 1,455418683 |
| 35 | 25 | 0,687298834 | 0,726374775 | 0,94620416 | 1,056854368 | 1,376699791 | 1,454971187 |
| 34 | 26 | 0,687510099 | 0,726174817 | 0,946755633 | 1,056238764 | 1,377078875 | 1,454524089 |
| 33 | 27 | 0,687721305 | 0,725974797 | 0,94730741 | 1,055623538 | 1,377458286 | 1,454077389 |
| 32 | 28 | 0,687932454 | 0,725774717 | 0,947859491 | 1,05500869 | 1,377838022 | 1,453631087 |
| 31 | 29 | 0,688143544 | 0,725574575 | 0,948411876 | 1,054394219 | 1,378218084 | 1,453185181 |
| 30 | 30 | 0,688354576 | 0,725374371 | 0,948964567 | 1,053780125 | 1,378598473 | 1,452739671 |
| 29 | 31 | 0,688565549 | 0,725174106 | 0,949517562 | 1,053166408 | 1,378979188 | 1,452294558 |
| 28 | 32 | 0,688776465 | 0,72497378 | 0,950070863 | 1,052553066 | 1,37936023 | 1,45184984 |
| 27 | 33 | 0,688987322 | 0,724773392 | 0,95062447 | 1,0519401 | 1,3797416 | 1,451405516 |
| 26 | 34 | 0,689198121 | 0,724572943 | 0,951178384 | 1,051327508 | 1,380123298 | 1,450961588 |
| 25 | 35 | 0,689408862 | 0,724372433 | 0,951732603 | 1,050715292 | 1,380505324 | 1,450518054 |
| 24 | 36 | 0,689619544 | 0,724171861 | 0,95228713 | 1,050103449 | 1,380887678 | 1,450074913 |
| 23 | 37 | 0,689830168 | 0,723971229 | 0,952841964 | 1,04949198 | 1,381270361 | 1,449632166 |
| 22 | 38 | 0,690040733 | 0,723770535 | 0,953397106 | 1,048880885 | 1,381653373 | 1,449189812 |
| 21 | 39 | 0,69025124 | 0,723569779 | 0,953952556 | 1,048270162 | 1,382036714 | 1,44874785 |
| 20 | 40 | 0,690461689 | 0,723368963 | 0,954508314 | 1,047659811 | 1,382420385 | 1,44830628 |
| 19 | 41 | 0,690672079 | 0,723168085 | 0,955064381 | 1,047049832 | 1,382804387 | 1,447865101 |
| 18 | 42 | 0,690882411 | 0,722967146 | 0,955620757 | 1,046440225 | 1,383188718 | 1,447424314 |
| 17 | 43 | 0,691092684 | 0,722766146 | 0,956177442 | 1,045830989 | 1,383573381 | 1,446983918 |
| 16 | 44 | 0,691302899 | 0,722565084 | 0,956734437 | 1,045222124 | 1,383958375 | 1,446543911 |
| 15 | 45 | 0,691513056 | 0,722363962 | 0,957291742 | 1,044613628 | 1,3843437 | 1,446104295 |
| 14 | 46 | 0,691723154 | 0,722162779 | 0,957849358 | 1,044005502 | 1,384729357 | 1,445665068 |
| 13 | 47 | 0,691933193 | 0,721961534 | 0,958407284 | 1,043397746 | 1,385115346 | 1,44522623 |
| 12 | 48 | 0,692143174 | 0,721760228 | 0,958965522 | 1,042790358 | 1,385501668 | 1,444787781 |
| 11 | 49 | 0,692353096 | 0,721558861 | 0,959524071 | 1,042183339 | 1,385888323 | 1,444349719 |
| 10 | 50 | 0,69256296 | 0,721357433 | 0,960082932 | 1,041576687 | 1,386275311 | 1,443912046 |
| 9 | 51 | 0,692772765 | 0,721155944 | 0,960642105 | 1,040970403 | 1,386662632 | 1,443474759 |
| 8 | 52 | 0,692982511 | 0,720954395 | 0,961201591 | 1,040364487 | 1,387050287 | 1,44303786 |
| 7 | 53 | 0,693192199 | 0,720752784 | 0,96176139 | 1,039758936 | 1,387438277 | 1,442601347 |
| 6 | 54 | 0,693401828 | 0,720551112 | 0,962321502 | 1,039153752 | 1,387826601 | 1,44216522 |
| 5 | 55 | 0,693611399 | 0,720349379 | 0,962881928 | 1,038548934 | 1,38821526 | 1,441729478 |
| 4 | 56 | 0,693820911 | 0,720147585 | 0,963442668 | 1,037944481 | 1,388604254 | 1,441294122 |
| 3 | 57 | 0,694030364 | 0,71994573 | 0,964003722 | 1,037340393 | 1,388993584 | 1,44085915 |
| 2 | 58 | 0,694239758 | 0,719743814 | 0,964565091 | 1,036736669 | 1,38938325 | 1,440424563 |
| 1 | 59 | 0,694449094 | 0,719541838 | 0,965126775 | 1,03613331 | 1,389773252 | 1,43999036 |
| 0 | 60 | 0,69465837 | 0,7193398 | 0,965688775 | 1,035530314 | 1,390163591 | 1,43955654 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

46°

| 44° | | | | | | | |
|--------|-----|-------------|-------------|-------------|-------------|-------------|-------------|
| Minute | Sin | Cos | Tan | Cot | Sec | Cosec | |
| 60 | 0 | 0,69465837 | 0,7193398 | 0,965688775 | 1,035530314 | 1,390163591 | 1,43955654 |
| 59 | 1 | 0,694867589 | 0,719137702 | 0,96625109 | 1,034927681 | 1,390554267 | 1,439123103 |
| 58 | 2 | 0,695076748 | 0,718935543 | 0,966813722 | 1,034325411 | 1,39094528 | 1,438690048 |
| 57 | 3 | 0,695285848 | 0,718733323 | 0,96737667 | 1,033723503 | 1,391336631 | 1,438257376 |
| 56 | 4 | 0,69549489 | 0,718531042 | 0,967939935 | 1,033121957 | 1,39172832 | 1,437825086 |
| 55 | 5 | 0,695703873 | 0,7183287 | 0,968503517 | 1,032520773 | 1,392120348 | 1,437393177 |
| 54 | 6 | 0,695912797 | 0,718126298 | 0,969067417 | 1,031919949 | 1,392512714 | 1,436961649 |
| 53 | 7 | 0,696121662 | 0,717923835 | 0,969631635 | 1,031319486 | 1,39290542 | 1,436530502 |
| 52 | 8 | 0,696330468 | 0,717721311 | 0,970196171 | 1,030719384 | 1,393298464 | 1,436099735 |
| 51 | 9 | 0,696539215 | 0,717518726 | 0,970761027 | 1,030119641 | 1,393691849 | 1,435669347 |
| 50 | 10 | 0,696747903 | 0,717316081 | 0,971326201 | 1,029520257 | 1,394085574 | 1,435239339 |
| 49 | 11 | 0,696956533 | 0,717113374 | 0,971891694 | 1,028921232 | 1,39447964 | 1,43480971 |
| 48 | 12 | 0,697165103 | 0,716910608 | 0,972457508 | 1,028322566 | 1,394874046 | 1,434380459 |
| 47 | 13 | 0,697373614 | 0,71670778 | 0,973023642 | 1,027724258 | 1,395268794 | 1,433951586 |
| 46 | 14 | 0,697582067 | 0,716504892 | 0,973590096 | 1,027126307 | 1,395663883 | 1,433523091 |
| 45 | 15 | 0,69779046 | 0,716301943 | 0,974156871 | 1,026528714 | 1,396059314 | 1,433094973 |
| 44 | 16 | 0,697998794 | 0,716098934 | 0,974723967 | 1,025931477 | 1,396455088 | 1,432667232 |
| 43 | 17 | 0,698207069 | 0,715895864 | 0,975291386 | 1,025334597 | 1,396851204 | 1,432239867 |
| 42 | 18 | 0,698415285 | 0,715692734 | 0,975859126 | 1,024738073 | 1,397247664 | 1,431812878 |
| 41 | 19 | 0,698623442 | 0,715489543 | 0,976427188 | 1,024141904 | 1,397644466 | 1,431386265 |
| 40 | 20 | 0,69883154 | 0,715286291 | 0,976995574 | 1,023546091 | 1,398041613 | 1,430960027 |
| 39 | 21 | 0,699039579 | 0,715082979 | 0,977564282 | 1,022950632 | 1,398439103 | 1,430534164 |
| 38 | 22 | 0,699247559 | 0,714879606 | 0,978133314 | 1,022355527 | 1,398836939 | 1,430108675 |
| 37 | 23 | 0,699455479 | 0,714676173 | 0,97870267 | 1,021760776 | 1,399235119 | 1,429683561 |
| 36 | 24 | 0,699663341 | 0,71447268 | 0,979272351 | 1,021166379 | 1,399633644 | 1,429258819 |
| 35 | 25 | 0,699871143 | 0,714269126 | 0,979842356 | 1,020572334 | 1,400032515 | 1,428834451 |
| 34 | 26 | 0,700078885 | 0,714065511 | 0,980412686 | 1,019978642 | 1,400431731 | 1,428410456 |
| 33 | 27 | 0,700286569 | 0,713861836 | 0,980983341 | 1,019385303 | 1,400831294 | 1,427986833 |
| 32 | 28 | 0,700494193 | 0,713658101 | 0,981554322 | 1,018792315 | 1,401231204 | 1,427563582 |
| 31 | 29 | 0,700701759 | 0,713454305 | 0,982125629 | 1,018199678 | 1,401631461 | 1,427140703 |
| 30 | 30 | 0,700909264 | 0,713250449 | 0,982697263 | 1,017607393 | 1,402032065 | 1,426718194 |
| 29 | 31 | 0,701116711 | 0,713046533 | 0,983269224 | 1,017015458 | 1,402433017 | 1,426296057 |
| 28 | 32 | 0,701324098 | 0,712842556 | 0,983841512 | 1,016423873 | 1,402834317 | 1,42587429 |
| 27 | 33 | 0,701531426 | 0,712638519 | 0,984414127 | 1,015832638 | 1,403235965 | 1,425452892 |
| 26 | 34 | 0,701738694 | 0,712434422 | 0,984987071 | 1,015241752 | 1,403637963 | 1,425031865 |
| 25 | 35 | 0,701945903 | 0,712230264 | 0,985560343 | 1,014651215 | 1,404040309 | 1,424611206 |
| 24 | 36 | 0,702153053 | 0,712026046 | 0,986133944 | 1,014061027 | 1,404443005 | 1,424190916 |
| 23 | 37 | 0,702360143 | 0,711821768 | 0,986707874 | 1,013471187 | 1,404846052 | 1,423770995 |
| 22 | 38 | 0,702567174 | 0,711617429 | 0,987282134 | 1,012881694 | 1,405249448 | 1,423351441 |
| 21 | 39 | 0,702774145 | 0,711413031 | 0,987856723 | 1,012292549 | 1,405653195 | 1,422932256 |
| 20 | 40 | 0,702981057 | 0,711208572 | 0,988431643 | 1,01170375 | 1,406057294 | 1,422513437 |
| 19 | 41 | 0,70318791 | 0,711004053 | 0,989006894 | 1,011115298 | 1,406461743 | 1,422094985 |
| 18 | 42 | 0,703394703 | 0,710799474 | 0,989582475 | 1,010527192 | 1,406866545 | 1,421676899 |
| 17 | 43 | 0,703601436 | 0,710594835 | 0,990158388 | 1,009939432 | 1,407271699 | 1,42125918 |
| 16 | 44 | 0,70380811 | 0,710390135 | 0,990734633 | 1,009352016 | 1,407677205 | 1,420841826 |
| 15 | 45 | 0,704014724 | 0,710185376 | 0,991311211 | 1,008764946 | 1,408083064 | 1,420424837 |
| 14 | 46 | 0,704221279 | 0,709980556 | 0,99188812 | 1,00817822 | 1,408489277 | 1,420008213 |
| 13 | 47 | 0,704427774 | 0,709775676 | 0,992465363 | 1,007591839 | 1,408895843 | 1,419591953 |
| 12 | 48 | 0,70463421 | 0,709570737 | 0,993042939 | 1,0070058 | 1,409302764 | 1,419176057 |
| 11 | 49 | 0,704840586 | 0,709365737 | 0,993620849 | 1,006420105 | 1,409710038 | 1,418760525 |
| 10 | 50 | 0,705046902 | 0,709160677 | 0,994199094 | 1,005834753 | 1,410117668 | 1,418345357 |
| 9 | 51 | 0,705253159 | 0,708955557 | 0,994777672 | 1,005249744 | 1,410525653 | 1,417930551 |
| 8 | 52 | 0,705459356 | 0,708750377 | 0,995356586 | 1,004665076 | 1,410933993 | 1,417516107 |
| 7 | 53 | 0,705665493 | 0,708545137 | 0,995935835 | 1,00408075 | 1,41134269 | 1,417102026 |
| 6 | 54 | 0,705871571 | 0,708339838 | 0,99651542 | 1,003496765 | 1,411751742 | 1,416688306 |
| 5 | 55 | 0,706077589 | 0,708134478 | 0,997095341 | 1,002913121 | 1,412161152 | 1,416274948 |
| 4 | 56 | 0,706283547 | 0,707929058 | 0,997675598 | 1,002329818 | 1,412570918 | 1,415861951 |
| 3 | 57 | 0,706489445 | 0,707723579 | 0,998256192 | 1,001746854 | 1,412981042 | 1,415449314 |
| 2 | 58 | 0,706695283 | 0,70751804 | 0,998837124 | 1,00116423 | 1,413391524 | 1,415037037 |
| 1 | 59 | 0,706901062 | 0,70731244 | 0,999418393 | 1,000581946 | 1,413802364 | 1,41462512 |
| 0 | 60 | 0,707106781 | 0,707106781 | 1 | 1 | 1,414213562 | 1,414213562 |
| Minute | Cos | Sin | Cot | Tan | Cosec | Sec | |

45°