TANGENT TABLE

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **φ°** | **0**' | **20**' | **40**' | **φ°** | **0**' | **20**' | **40**' |
| **0** | 0,0000 | 0,0058 | 0,0116 | **45** | 1,000 | 1,012 | 1,024 |
| **1** | 0,0175 | 0,0233 | 0,0291 | **46** | 1,036 | 1,048 | 1,060 |
| **2** | 0,0349 | 0,0407 | 0,0466 | **47** | 1,072 | 1,085 | 1,098 |
| **3** | 0,0524 | 0,0582 | 0,0641 | **48** | 1,111 | 1,124 | 1,137 |
| **4** | 0,0699 | 0,0758 | 0,0816 | **49** | 1,150 | 1,164 | 1,178 |
| **5** | 0,0875 | 0,0934 | 0,0992 | **50** | 1,192 | 1,206 | 1,220 |
| **6** | 0,1051 | 0,1110 | 0,1169 | **51** | 1,235 | 1,250 | 1,265 |
| **7** | 0,1228 | 0,1287 | 0,1346 | **52** | 1,280 | 1,295 | 1,311 |
| **8** | 0,1405 | 0,1465 | 0,1524 | **53** | 1,327 | 1,343 | 1,360 |
| **9** | 0,1584 | 0,1644 | 0,1703 | **54** | 1,376 | 1,393 | 1,411 |
| **10** | 0,1763 | 0,1823 | 0,1883 | **55** | 1,428 | 1,446 | 1,464 |
| **11** | 0,1944 | 0,2004 | 0,2065 | **56** | 1,483 | 1,501 | 1,520 |
| **12** | 0,2126 | 0,2186 | 0,2247 | **57** | 1,540 | 1,560 | 1,580 |
| **13** | 0,2309 | 0,2370 | 0,2432 | **58** | 1,600 | 1,621 | 1,643 |
| **14** | 0,2493 | 0,2555 | 0,2617 | **59** | 1,664 | 1,686 | 1,709 |
| **15** | 0,2679 | 0,2742 | 0,2805 | **60** | 1,732 | 1,756 | 1,780 |
| **16** | 0,2867 | 0,2931 | 0,2994 | **61** | 1,804 | 1,829 | 1,855 |
| **17** | 0,3057 | 0,3121 | 0,3185 | **62** | 1,881 | 1,907 | 1,935 |
| **18** | 0,3249 | 0,3314 | 0,3378 | **63** | 1,963 | 1,991 | 2,020 |
| **19** | 0,3443 | 0,3508 | 0,3574 | **64** | 2,050 | 2,081 | 2,112 |
| **20** | 0,3640 | 0,3706 | 0,3772 | **65** | 2,145 | 2,177 | 2,211 |
| **21** | 0,3839 | 0,3906 | 0,3973 | **66** | 2,246 | 2,282 | 2,318 |
| **22** | 0,4040 | 0,4108 | 0,4176 | **67** | 2,356 | 2,394 | 2,434 |
| **23** | 0,4245 | 0,4314 | 0,4383 | **68** | 2,475 | 2,517 | 2,560 |
| **24** | 0,4452 | 0,4522 | 0,4592 | **69** | 2,605 | 2,651 | 2,699 |
| **25** | 0,4663 | 0,4734 | 0,4806 | **70** | 2,747 | 2,798 | 2,850 |
| **26** | 0,4877 | 0,4950 | 0,5022 | **71** | 2,904 | 2,960 | 3,018 |
| **27** | 0,5095 | 0,5169 | 0,5243 | **72** | 3,078 | 3,140 | 3,204 |
| **28** | 0,5317 | 0,5392 | 0,5467 | **73** | 3,271 | 3,340 | 3,412 |
| **29** | 0,5543 | 0,5619 | 0,5696 | **74** | 3,487 | 3,566 | 3,647 |
| **30** | 0,5774 | 0,5851 | 0,5930 | **75** | 3,732 | 3,821 | 3,914 |
| **31** | 0,6009 | 0,6088 | 0,6168 | **76** | 4,011 | 4,113 | 4,219 |
| **32** | 0,6249 | 0,6330 | 0,6412 | **77** | 4,331 | 4,449 | 4,574 |
| **33** | 0,6494 | 0,6577 | 0,6661 | **78** | 4,705 | 4,843 | 4,989 |
| **34** | 0,6745 | 0,6830 | 0,6916 | **79** | 5,145 | 5,309 | 5,485 |
| **35** | 0,7002 | 0,7089 | 0,7177 | **80** | 5,671 | 5,871 | 6,084 |
| **36** | 0,7265 | 0,7355 | 0,7445 | **81** | 6,314 | 6,561 | 6,827 |
| **37** | 0,7536 | 0,7627 | 0,7720 | **82** | 7,115 | 7,429 | 7,770 |
| **38** | 0,7813 | 0,7907 | 0,8002 | **83** | 8,144 | 8,556 | 9,010 |
| **39** | 0,8098 | 0,8195 | 0,8292 | **84** | 9,514 | 10,08 | 10,71 |
| **40** | 0,8391 | 0,8491 | 0,8591 | **85** | 11,43 | 12,25 | 13,20 |
| **41** | 0,8693 | 0,9796 | 0,8899 | **86** | 14,30 | 15,60 | 17,17 |
| **42** | 0,9004 | 0,9110 | 0,9217 | **87** | 19,08 | 21,47 | 24,54 |
| **43** | 0,9325 | 0,9435 | 0,9545 | **88** | 28,64 | 34,37 | 42,96 |
| **44** | 0,9657 | 0,9770 | 0,9884 | **89** | 57,29 | 85,94 | 171,9 |