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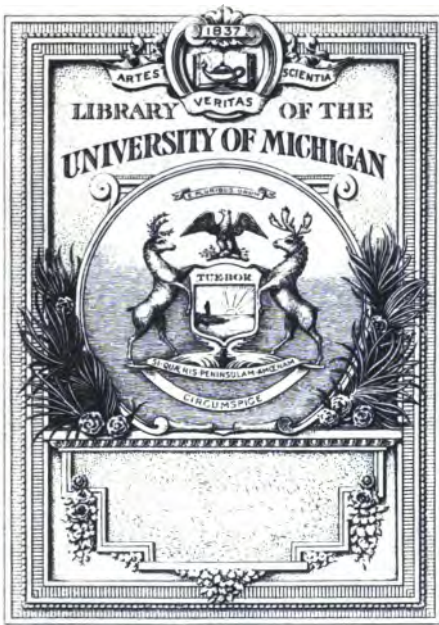
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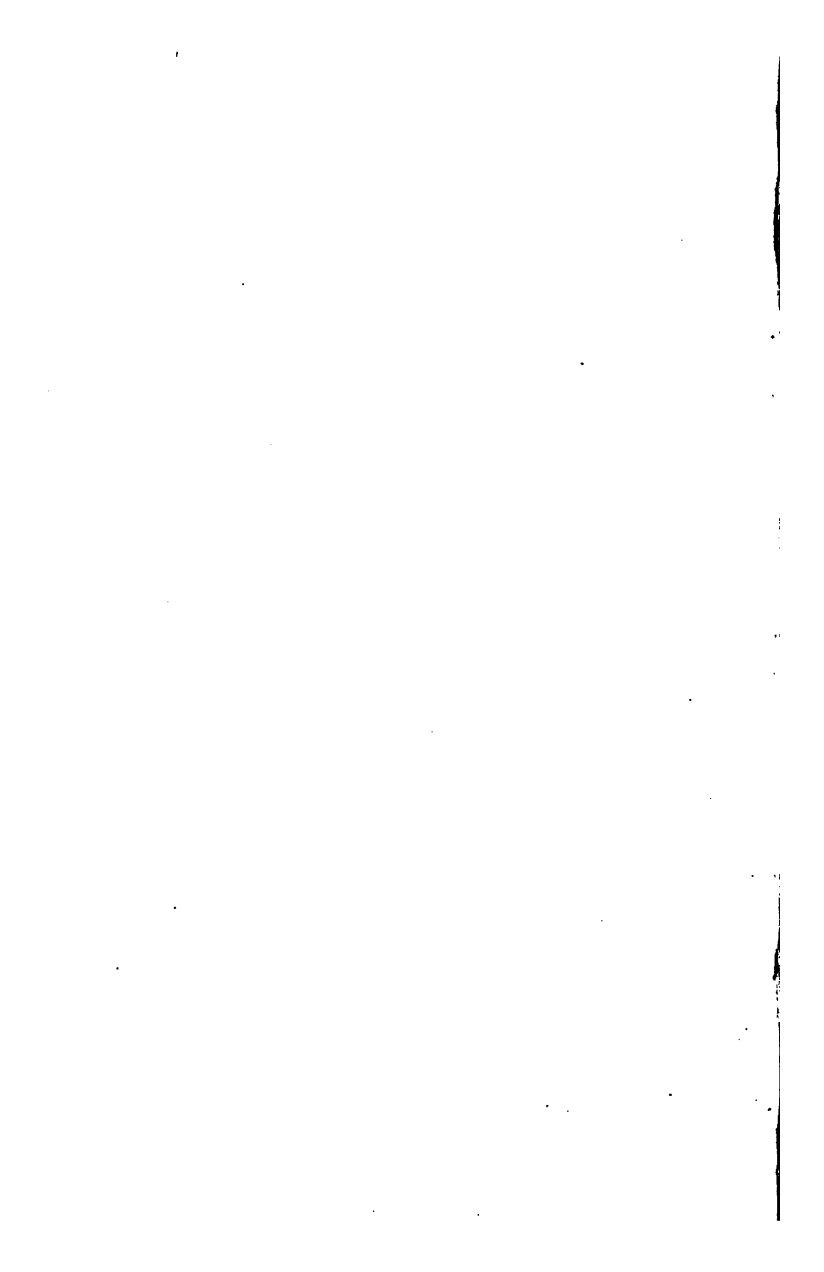
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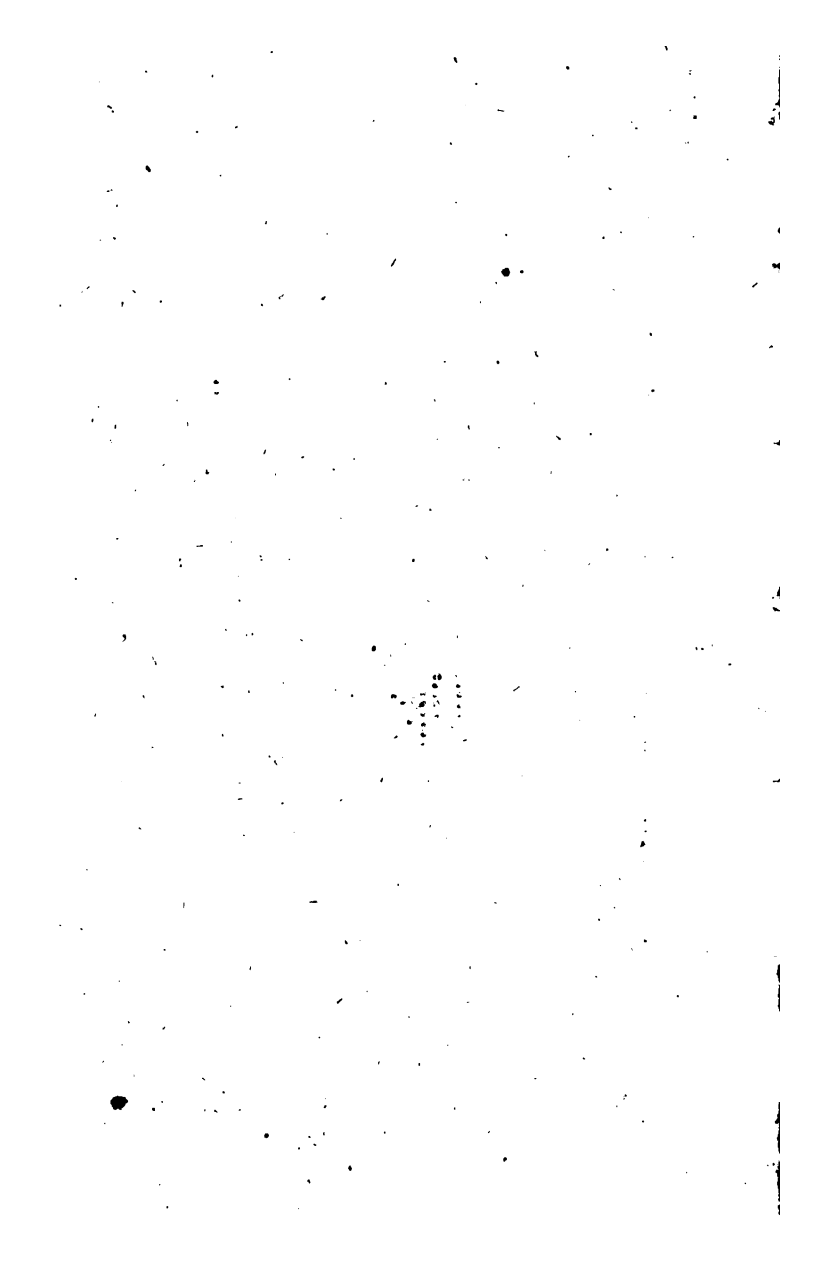
A D R I A N V L A C Q.



Zu Amsterdam /

Wey HEINRICH BOOM, und der Wittwe
DIEDRICH BOOMS.

Im Jahr 1689.



Nist 2 Sci
Lynge
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14 286

Pag. 3



Das ERSTE CAPITTEL,

Von dem

Gebrauch dieser Tabellen.

L S sind diese folgende Tabellen auff zweyerley weise unterschieden: Die ersten bedeuten die Sinus Tangentes und Secantes eines jeden gradus und minuten des Quadranten, dessen halber Diameter 10000000 theile in sich helt / und die Logarithmos der Sinuum und Tangentium: Die Logarithmi der Secanten sind gewisser ubersachen halben nicht bey gedacht / welln die rechnungen der Drey-cken ohne das mit ebener leichter Wähe geschehen können. In die letzte Tabelle sind die Logarithmi der zunehmenden zahlen von 1. nach der natürlichen ordnung bis 10000.

Durch dieser Tabellen mittel kan jede Drey-cke auff zweyerley weise erlöset werden: entweder durch die gemeine zahlen der Sinuum Tangentium und Secantium, oder durch derselben Logarithmen.

In die Regel der Proportion (oder De Tri genant) wird der unterschied der Trigonometrischen rechnungen durch die gemeine zahlen und derselben Logarithmen solcher gestalt gemacht.

So man begehret durch gemeine zahlen zu rechnen / muß man die andere in der ordnung folgende zahl mit der dritten vermehren / und was darauß komt durch die erste theilen: Wird der quotiens die begehrete vierde zahl.

So man aber wolte durch ihre Logarithmen rechnen / muß dem Logarithmo der anderen / der Logarithmus der dritten zugehan werden / und auß derselber Summe der Logarithmus der ersten

2-27 11.5.50

Von dem gebrauch dieser Tabellen.

abgezogen / was übrig bleibt / wird der Logarithmus der ν welcher in der ersten oder anderen Tabellen (wie es der natur scheinet) gesucht / die vierde geben wird.

Diese art zu rechnen ist viel leichter denn die ander / absont in auflösen aller Sphärischen Drey-cken / wie auch in aufstellung geradlinischen Drey-cken / als die 3. 4. und 6. Aube / &c. wir halten die erste für die beste / welches wir auch in jeden willen (der da rechnet) stellen.

Wenn aber die letzte Tabell allein die Logarithmos der ν von 1 bis 10000 zu / in sich hat / will ich eine leichte art zeigen der Logarithmus einer jeglichen zahl 1000000 nicht größer gefunden werden / und diesem zu gegen.

Erstlich. Suche in der letzten Tabellen den Logarithm der vier ersten zahlen der vorgestellten zahl.

2. Ziehe den gefundenen Logarithmo von dem in der bellen nachfolgenden Logarithmo ab / damit der unter gefunden werde.

3. Vermehre den gefundenen unterschied in den übrigen ν der vorgegebenen zahl / und ziehe den was darauf gekommen rechten / so viel zahlen ab / als übrig sind gewesen.

4. Was nu von diesem das heraus gekommen übrig ist ν ben / thue zu dem erst gefundenem Logarithmo, wird die ν die erste figur / welche allezeit eins muß geringer seyn / als die ν figuren / worin diese ganze beehrte zahl bestehen wird.

Zum exempel. Man beehrte den Logarithmum 3567894. So suche ich erstlich den Logarithmum von 3 welcher ist 3. 5523031 / dieser von 2. 5524248 gezogen / wird selben unterschied 1217 / welches mit 894 den dreien übergebenen figuren vermehrt / komt heraus 1087998 / so drey figuren von werden genommen / bleibt übrig 1087 / diese dem Logarithm 3. 5523031 zugethan / ist die Summe 3. 5524118. Endlich die erste figur 3 in 6 wird verwandeln / ist der Logarithm beehrten zahl 6. 524118.

Und also der Logarithmus 125607 ist 5. 0990137. 235800 ist der Logarithmus 6. 3725454.

Erinnerung.

So die zahl $3\frac{66894}{788874}$ / oder $35\frac{66894}{746806}$ / oder $356\frac{66894}{788874}$ ist / &c.
 Sollen die Logarith. eben diese seyn als die ganze zahlen 3569894
 aufgenommen die erste figur / nemlich / 0. 5524118 / 1. 5524118 /
 2. 5524118 / &c. Und die weise der selben zu finden ist eben also.

Und so ein ganze zahl mit einem zehenden bruch gefügt / nicht
 mehr dan vier figuren in sich haltend / vorgegeben wird. Kan dessen
 Logarithmus in eben der selben Tabell gar genau und richtig ge-
 funden werden. Als die Logarithmi zahlen $3\frac{66}{88}$ oder $35\frac{66}{88}$ oder
 $356\frac{66}{88}$ werden nebst der ganzen zahl 3567 gefunden / allein die
 erste figur wird (wie vorher meldung geschehen) geändert.

Man aber ein ander bruch der ganzen zahl zu gesetzt wird / so
 macht man von dieser zahl einen unelgenen bruch / und ziehet dem
 Logarithmum des Nenners von dem Logarithmo des Zehlers /
 das übrige ist der begehrte Logarithmus.

Als $3\frac{1}{2}$ verändert in $\frac{1}{2}$ 0. 6029600 (der Logarithmus 4 von
 1. 1760913 gezogen der Logarith. von 15 das übrige 0. 5740313
 ist der Logarithmus von $3\frac{1}{2}$ oder $3\frac{66}{88}$.

Siehet man derhalben alhie den zehenden bruch / so woll nach
 dem gebrauch der Logarithmen, als der gemeinen zahlen / eine
 grosse seltzigkeit wissen / deswegen sie auch anderen vor zu ziehen
 seyn.

Damit der Logarithmus des bruchs gefunden werde / muß der
 Logarithmus des Zehlers von dem Logarithmo des Nenners
 abgezogen werden / der übrige ist der gesuchte Logarithmus, so
 dieses — zeichen (welches gering bedeut) vor her gesetzt wird: Als
 der Logarithmus von $\frac{1}{2}$ ist — 0. 3979400.

Man muß aber wissen / das anders zu handeln sey durch die Lo-
 garithmos der brüche als der ganzen / oder der ganzen mit
 dem bruch zu sammen gehengt: Welches alhie nicht beschrieben
 wird / weßly es selten in auff-lösung der Drey-cken fürkömt.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Von dem gebrauch dieser Tabellen.

Die solches zu wissen begehren / können es auß des Herren Hen: Briggii Arithmetica Logarithmica erlernen / woselbst grund und allerbeste gebrauch der Logarithmen in Arithmetischen und Geometrischen auffgaben wecklaufftig gehandelt / gezeigt wird.

Wie man ein Zahl des vorgegebenen Logarithmi suchen soll?

Man suche in der letzten Tabelle unter den Logarithmis Zahl 1000 und 10000 / (obngeacht der ersten figur) den begehrt Logarithmum und beobachte dieselbe beyde.

Zum ersten, so der vorgestellte Logarithmus darin richtig funden wird / so stehet am rande die bekehrte Zahl. Und so die figure des bekehrten Logarithmi kleiner denn 3 ist / so nim die fundene Zahl zur rechten so viel weg als sie kleiner ist / das übrige die ganze gesuchte Zahl und derselben lebende bruch wird abschneiden seyn: So aber die erste figur grösser denn 3 ist / so verleihe die gefundene Zahl mit so viel zifferen (00) so viel sie grösser Also: es sey gegeben der Logarithmus 3.5523031 dessen Zahl 3567 seyn. So 2.5523031 / soll dessen Zahl 356 $\frac{7}{10}$ seyn. 1.5523031 ist dessen Zahl 35 $\frac{67}{100}$. So 0.5523031 wird 3. So 4.5523031. komt darauß 35670. So 5.5523031. dessen Zahl 356700 und also von den übrigen weiter.

Zum anderen. So etwan in der Tabel der vorgestellte Logarithmus nicht würde gefunden / und mehr denn 4 figuren gegeben werden / muß man auff diese art verfahren.

1. Suchet man wie im vorhergehenden (obngeacht der ersten figur) den Logarithmum der mit dem gefundenen über ein k. für die 4 erste figuren der gesuchten Zahl.

2. Zieh die den erfundenen Logarithmum auß dem fürgegebenen Logarithmo, und was übrig vernehret mit so viel zifferen viel der figuren über die 4 gefundene bekehrer werden.

3. Zehlet man das übergebliebene also durch den unterschied des erfundenen und nächst folgenden Logarithmi, und der unterschied wird hinter die 4 gefundene gesetzt. Als dan beschiet die figur des gegebenen Logarithmi, welche die ganze Zahl

der bruch der gesuchten zahl (wie vorher gemeldet worden) anzeigen wird.

Zum exempel, Es werde die zahl so dem Logarithmo 4. 5524128 übereinkommt / gesucht.

Der Logarithmus so in der Tabel unter 1000 und 10000 (ohneacht der ersten figur) gefunden wird / ist der nächst vorgestellten kleiner 3. 5523031, Dessen zahl 3567 / welche sind die 4 ersten figuren der gesuchten zahl, Wan dieser Logarithmus gefunden / und von dem vorgegebenen abgezogen / bleibet übrig 1087 / welcher mit 3 zifferen soll vermehrt werden / und wird 1087000 seyn. Theile diesen durch 1217 (den unterschied des erfundenen Logarithmi und der nächst folgenden) ist der quotus 894 setze diese figuren nach 3567 / so wird 3567894 heraus gebracht werden. Weilen aber die erste figur des vorgestellten Logarithmi 4 ist / wird die gesuchte zahl 35678. $\frac{94}{1000}$ / und also weiter.

Die gevierde oder würffliche Wurtzel einer fürgegebenen zahl zu finden.

Wiewol unsere meynung allein gewesen mit wenigem die artz der Drey-ersten zu rechnen an diesem orth zu berühren. Weilen aber der gebrauch der Logarithmen, in erfindung der gevierdten würfflichen und andern Wurzeln seltsam und wunderlich ist / hat man für gut erachtet alhie kürzlich die artz derselben gar leichtlich zu erfinden hie bey zu fügen.

Damit die gevierdte Wurtzel der vorgestellten zahl gefunden werde / nim die helffte des Logarithmi der vorgegebenen zahl / selbiges wird der Logarithmus der gevierdten gesuchten wurzel seyn.

Als / so die gevierdte Wurtzel 1257 gesucht wird / ist dessen Logarithmus 3. 0993353 / dessen helffte 1. 5496676 / der Logarithmus 23. $\frac{44}{100}$ der gefundenen gevierdten Wurtzel.

Die würffliche Wurtzel der vorgegebenen zahl zu finden / nim den dritten theil des Logarithmi der vorgestellten zahl / die selbe wird der Logarithmus der gesuchten würffel Wurtzel seyn.

Bey Exempel. Es wird die würffel Wurtzel 12570 gesucht. Dessen Logarithmus ist 4. 0993353 / welche drey-mahl getheilt gibt 13664451 der Logarith. 23. $\frac{44}{100}$ der gekehrten würffel Wurtzel.

Von der natur (eigenschaft) und verfertigung
der Logarithmen.

Die Logarithmen sind zahlen/welche/wan sie zu sammen ge-
than seyn oder über ein kommen mit den Proportional-zahlen/alle-
zeit gleiche unterschieden behalten/oder welche den Arithmetischen
fortgang gewöhnen / so lange sie deren Logarithmi genau sind /
den Geometrischen fortgang auch erhalten.

Wie diese folgende Tabell, dessen erste Columne die Propor-
tional-zahlen bedeutet.

Die anderen sind die Logarithmi, nach
helleben genommen und den erwehnten Pro-
portional-zahlen zugefügt: und mag ein
jeder für den ersten Logarithmum und für
den fortgehenden unterschied setzen / welchen
er will/ nach seinem eigenen belieben.

Die eigenschaft aber der Logarithmen
ist / daß wan etwan vier zahlen Proportio-
nal seyn / die Summe der eussersten Loga-
rithmen der Summe der mittelften gleich
sey.

Zum exempel. Wie sich helt 2 gegen 8 /
also ist 16 gegen 64. Die Summe der Lo-
garithmen 2 und 64 wird gleich der Sum-
me der Logarithmen 8 und 16.

Daher folget / daß wan durch die Gulden-Regel die vierde Pro-
portional-zahl durch vermehrten und theilen gefunden wird / in-
dem man den Logarithmum zu der mittelften thut / und auß der
Summe den Logarithmum der ersten zahl wegnimt / wird der
Logarithmus der vierdten zahl übrig bleiben / an dessen seite /
da der vierde gefunden wird.

Deß wegen die Tabellen der Logarithmen, die mit allen natür-
lichen zahlen übereinstimmen / müssen verfertiger werden. Ich sage
von denen die mit der zahl übereinkommen und von i. sich ordentlich
folgen ohne ledigen platz zulaassen / gleich wie unter den genandten
zahlen

| Propor-
tion. | Logarithmi. | | |
|------------------|-------------|----|----|
| 1 | 1 | 3 | 0 |
| 2 | 2 | 5 | 10 |
| 4 | 3 | 7 | 20 |
| 8 | 4 | 9 | 30 |
| 16 | 5 | 11 | 40 |
| 32 | 6 | 13 | 50 |
| 64 | 7 | 15 | 60 |
| 128 | 8 | 17 | 70 |
| 256 | 9 | 19 | 80 |
| 512 | 10 | 21 | 90 |

Von dem gebrauch dieser Tabellen.

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zahlen 12. 4. 8, 16, &c. Auch die unterschieden der Logarithmen sind so groß zu machen / daß die brüche der natürlichen zahlen unempfindlich seyn / wie darunten soll gesagt werden.

Darum hat man der leichtigkeit halben es da für gehalten / daß der Logarithmus der zahlen 1. ein 0 (ziffer) sey / und der Logarithmus 10. 10000000, der Logarithmus 100. 20000000, der Logarithmus 1000. 30000000, der Logarithmus 10000. 40000000, und also immer im auffsteigen / woselbsten zu betrachten ist / daß die erste figur des Logarithmi, (die characteristica genant wird) allezeit eines weiniger sey denn die figuren / worin die natürliche zahl bestehet.

Beispiel. So es acht figuren hat / soll der erste des Logarithmi 7 seyn / so es zwölff / soll der Logarithmus für seine characteristica 11 haben / &c.

Vnd auff diesem grund seyn die Logarithmi aller zahlen / von 1 bis 10: von 10 bis 100: von 100 bis zu 1000 erfunden worden / &c. Dessen Tabelle ist also gemacht worden / also daß an statt des vermehrens und theilens die vierde begehrte zahl zu finden sey / in dem man vermehrt und abzi:het die Logarithmos, die mit den dreyn fürgegebenen zahlen übereinkommen / wird entspringen der Logarithmus der vierden zahl / welcher gleich gegen den andern columnen der natürlichen zahl gefunden wird.

Vnd weiln die Tabellen der Sinuum und Tangentium auß natürlichen zahlen bestehen / die da müssen vermehrt und getheilt werden / sind die Logarithmi aller zahlen der Sinuum und Tangentium gesucht worden / den halben Birekel-bogen gerechnet auff 1000000000, welchem der Logarithmus 10. 0000000000 ist bey gefügt / und also folgend's die andern.

W:den also derselben Logarithmi, an statt des vermehrens und theilens der natürlichen zahl / zugethan und abgezogen / damit die vierde zahl erfunden werde / solcher gestalt wie die Gradeu und Minuten durch den ordentlichen weg sind gesucht worden.

Das II. CAPITTEL.
Auflösung der Recht-linischen und gerade-winkelichten Drey-ecken.

Erinnerungen.

1. **D**er recht-winkelichten Drey-ecken / so wohl der gerad-linischen als der Sphärischen seiten / so einen gleichen winkel in sich haben / werden die beine genant; und in der selte demselben zu gegen stehende die Hypothenusam.

2. Einer jeden Drey-ecke so wol gleich-linisch als Sphärisch / wird der grosse winkel von der grossen seite unterzogen / und das grosse bein von dem grössern winkel.

3. Eines jeglichen rechtlinischen winkel / sind die dreywinkeln den beyden geraden gleich.

4. In folgenden Aufgaben haben wir ins gemein diese ordnung beobachtet / das die ersten seyn / die winkeln zu finden / und die letzten / die seiten: und deren in gerad-linischen Drey-ecken / erstlich die beine / hernach die Hypothenusam.

5. Schicket es sich auch wol das die bekandte ortben / so wol winkeln als seiten / mit einer kleinen linie durch gestrichen werden / und die gefundene mit einer ziffer / oder geringen zirkel (o) gezeichnet. Wie in folgenden Drey-ecken zu ersehen.

Die erste Aufgabe. Wenn die beine gefunden seyn,
wie man soll die scharffen winkel finden.

Wie sich bein eines der beine /

Zu dem andern bein /

Also verhält sich der ganze Sinus, (bein überstehet,

Zu dem Tangenten des winkels / der gegen dem andern

Zum exempel. In der rechtlinischen Drey-ecke ABC, wan die beine gefunden AB 1124 und BC 606; den winkel A oder C zu finden.

Durch gemeine zahlen.

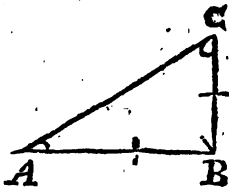
Wie das bein AB 1124

Zu dem bein BC 606

So ist der ganze Sinus 10000000

Gegen den Tangenten 539 1450 von A. 28 grad. 20'

Der selben C dessen erfüllung ist 61 grad. 40'



Durch Logarithmen.

| | | |
|------------------------------|-----------|---------------|
| Logarithmus A B | 1124 | 3.0507663 |
| Logarithmus B C | 606 | 2.7824726 |
| Logarithmus des ganzen Sinus | 10. | 0000000 |
| Logarithmus des Tangenten | 9.7317063 | A 28 gr. 20'. |

II Aufgabe. *Wan gegeben die Hypothenufa und eine der selben beinen, die scharffen winckeln zu finden.*

Wie die Hypothenufa,
Gegen den ganzen Sinum,
Also ist das begehrt bey / (setzt ist)
Gegen den Sinum, so dem begehrt: in bey entgegen ge-

III Aufgabe. *Wenn die winckel und eines der beinen bekannt seyn, wie das andere bey zu finden.*

Wie der ganze Sinus,
Zu dem gegebenen bey,
Also ist der Tangens des scharffen winckels dem fürgege-
Gegen das gesuchte bey. (beyen bey anliegende)

IV Aufgabe. *Wan die winckel und die Hypothenufa gegeben, eines der beyne zu finden.*

Wie der ganze Sinus,
Gegen die Hypothenusam,
Also ist der Sinus des winckels/dem gesuchten bey zu gegen
Gegen das gesuchte bey. (steht)

V Aufgabe. *Wan die Hypothenufa und eine der beinen gegeben, das ander bey zu finden.*

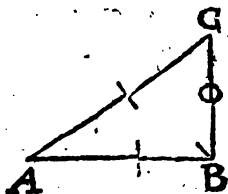
Suche erstlich nach der andern Aufgabe die scharffen winckel nach durch die dritte und vierde Aufgaben das gesuchte.

12 *Van den rechtl. und gerade winckl. Drey-ecken.*

*Ein anders und gar leicht durch die
Logarithmos.*

Thut den Logarithmum der Summe der Hypothenusen und fürgegebenen beins zu dem Logarithmo, derselben unterschied / die helffte der Summe der Logarithmen ist des gesuchten beins Logarithmus.

Zum exempel. In der Drey-ecken ABC, wan die Hypothenusa AC 1277, und das bein AB 1124 gegeben / wird das bein BC gesucht.



| | | |
|--------------------------|----|------|
| Die Hypothenusa | AC | 1277 |
| Das bein | AB | 1124 |
| Die Summa | | 2401 |
| Der unterschied | | 153 |
| Die helffte ist der Log. | BC | 606 |

Logarithmi.

| | |
|----|---------|
| 3. | 3803922 |
| 2. | 1846914 |
| 5. | 5650836 |
| 2. | 7825418 |

Die IV Aufgabe. Wan die winckeln und eines der beine bekant, die Hypothenusam zu finden.

Wie der ganze Sinus,

Gegeu das fürgestellte bein /

Also ist der Secans des scharffen Winkels dem fürgegebenen bein anhangend /

So einer begehrt den Logarithmum des Secanten eines Bogens zu wissen / soll im abzuehen des Logarithmi des Sinus erfüllung auß dem verdoppelten Logarithmo des ganzen Sinus gefunden werden; was über bleibt / wird der gesuchte Logarithmus seyn.

Man ziehe also ab 9.9445821 den Logarithmum des Sinus 61. grad. 40', außdem Logarithmo 20.0000000, wird übrig bleiben 10.0554179, den Logarith. des Secanten 28. grad. 20'.

Anders

Anders ohne Secanten.

Wie der Sinus des winckels gegen dem fürgestellten bein über-
Zu dem fürgegebenen bein / (stehend)
Also ist der ganze Sinus,
Zu der Hypothenuten.

e VII Aufgabe. *Wan die beine fürgestellt, die Hypothenutenam zu finden.*

in suche erstlich die Winckeln nach der ersten Aufgabe / sol- die Hypothenutenam nach der vorgehenden sechsten Auf-

Das III CAPITTEL.

Von der aufflösung der gerade- linischen und stumpf- winckelichten Drey- ecken.

I Aufgabe. *Wan zwei seiten; und ein derselben zu en gesetzter Winckel, gegeben, den Winckel der dem anderen zu gegen ist, zu finden. So bekant ist; ob er scharff oder stumpf seyn wird.*

die seite / die dem fürgegebenen Winckel entgegen steht /
i dem Sinus desselben Winckels ist /
ist die andere seite /
u dem Sinus dieser seiten des Winckels entgegen gesetzt.

e II Aufgabe. *Wan zwei seiten, und der eine zwischen ligende Winckel gegeben, die übrigen winckel zu finden.*

e III. die Summe der fürgestellten seite /
von derselben-unterscheid sich helt / (falls)
Also ist der Tangens die helfte der Summe des gesuchten winck-
Wegen den Tangenten der helfte des unterscheid's derselben.

14 Von den gerad. lin. stumpf winckl. Drey-ecken.

So derhalben / zu der helfte der gesuchten winckeln (welche sind eine erfüllung des fürgestellten winckels zu 108 graden) der gesuchte unterschied gerhan wird / ist die Summe der grössere winckel: So sie aber wird dabon gezogen / wird das übrige der kleine gesuchte winckel seyn.

Die III Aufgabe. Wan drey seiten fürgeben, einen jeglichen winckel zu finden.

Es wird die grosse seite für die Basis genommen / und über die selbe eine gleich hangende linie gezogen / dadurch die fürgegebene Drey-ecke in zwey gleichwinckelichte Drey-ecken wieder gebracht seyn wird /

Wie die Basis,

Gegen die Summe der übrigen seiten sich helt /

Also ist der unterschied der selben /

Gegen den unterschied des durch-schnitts der Basen.

Wan der gefundene unterschied von der Basis weg gerhan wird / so theilet die nieder hangende linie das übrige in zwey gleiche theile. Derhalben wird in den beyden gleich-linischen Drey-ecken / die Hypothenusa und ein bein erkant / durch welche die winckeln / nach der 2 Aufgabe des 2 Capittels / gefunden werden.

Bev exempel. In der stumpf-winckelichten Drey-ecke A B C, werden A C 1277. A B 865, und B C 632 gegeben; wird also ein jeglicher winckel gesucht.

Logarithmen.

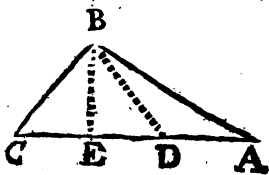
Wie A C 1277. 3. 1061909

Zu AB + BC 1497. 3. 1752218

Also AB - BC 233. 2. 3673559

5. 5425777

Zu A D - - - 273. 2. 4363868



Erinnerung.

Es kan auch der Logarithmus der vierden gesuchten zahl gefunden werden / so die Arithmerische erfüllung des ersten Logarithmi (welche ist dessen übriges auf 10. 000000 abgezogen) der

Von den gerädl. stumpf-winckl. Drey-ecken. 15

beyden übrigen zugethan / und der Summe die erste figur
lincken abgenommen wird / wie in dem vorgehenden Exempel zu
n.

| | | |
|---------|------|--------------------|
| AC | 1277 | 6. 8938091. c. ar. |
| AB + BC | 1497 | 3. 1752218 |
| AB - BC | 233 | 2. 3673559 |
| AD | 273 | 2. 4363868 |

So etwan ein Logarithmus nicht kan von 10. 0000000 geze-
werden wie der Logarithmus des anrührenden Bogens 49
trifft / muß derselbe von 20. 0000000 abgeworffen / und wie
gethan werden. Wie die Arithmetische erfüllung des au-
enden Logarithmi 66. gr. ist 9. 6485831 / welcher auch des
arithmus anrührende erfüllung ist.

San AD 273 von AC 1277 genommen wird / bleibet DC
4 übrig / dessen helffte 502 ist CE. oder DE. Iso wird in der
de-winckelichten Drey-cke ABE erkant die Hypothenusa
865, und das bein AE 775. Durch welche der winckel ABE
r. 38' und der winckel BAE 26 gr. 22' gefunden wird. Auch
er gerad-winckelichten Drey-cke CBE wird die bekante Hy-
thenusa BC 632, und das bein CE 502, durch welche gefun-
wird der winckel CBE 52. gr. 35', und der winckel BCE
gr. 25', so der winckel CBE 52. gr. 35', dem winckel ABE
r. 38', zugethan wird. Ist die Summe der winckel ABC
gr. 13.

Ein anders.

Es werden die fürgestellten seiten eins umb das ander zu sam-
gefügt / und auß der helffte derselben Summe ein sechste seite
unter dem gesuchten winckel ligt / abgenommen / damit derselben
erschoid erlanget wird / und wird seyn /

1. Wie eine jede seite die zwischen dem gesuchten winckel ligt /
zu dem erfundenen unterscheyd /
Also ist der andere unterscheyd /
zu der vierden zahl.

2. Wie

16 Von den geradl. stumpf-Winckl. Drey-ecken.

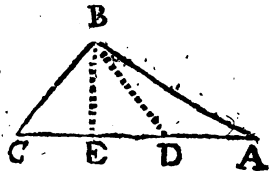
2. Wie ein jede seite/ die zwischen dem gesuchten Winckel ligt/
 Zu dem ganzen Sinus,
 Also ist die gefundene zahl/
 Zu der siebenden.

Wan nun diese siebende zahl in den ganzen Sinum gebracht/ wird
 die geblerde-Wurzel des products (oder Summe) der Lo-
 garichmus des Sinus, des halben beg-hten Winckels seyn.

Oder viel leichter durch die Logarithmen, thue den Logarith-
 mum des ganzen Sinus zu dem Logarithmo der siebenden zahl/
 wird die helffte der Summen der Logarithmus des Sinus die helff-
 ten des gesuchten Winckels seyn.

Zum exempel. In der nebenstgehenden Drey-ecken soll der
 Winckel A B C gefunden werden.

| | | |
|-----------------------|------|------|
| Die seiten | { AC | 1277 |
| | { AB | 865 |
| | { BC | 632 |
| Die Summe der seiten | | 2774 |
| Die helffte der Summe | | 1387 |



| | | | | |
|--|----|-----|---------------|-------------|
| Der unterschied | AB | 522 | der Logar. 2. | 7176795 |
| Der unterschied | BC | 755 | der Logar. 2. | 8779469 |
| | | | Die Summe | 5. 5956174 |
| Der Logar. | AB | 865 | | 2. 9370161 |
| Der Logar. des 4ten mit dem ganzen Sinus | | | | 12. 6586013 |
| Der Logar. | BC | 632 | | 2. 8007171 |
| Der Logar. des siebenden mit dem ganzen Sinus | | | | 19. 8578842 |
| Die helffte ist der Logar. des Sinus 58. d. 6 $\frac{1}{2}$ | | | | 9. 9289421 |
| Deffen verdüppelung 117 d. 13. ist der gesuchte Winckel A.B.C. | | | | |

Oder thue die Arithmetische erfüllungen der Logarithmen der
 seiten / die den Winckel in sich halten zu den Logarithmen der ge-
 fundenen unterschiede. Die helffte der Summe / wird der Loga-
 rithmus der gesuchten helffte seyn / wie bey dieser Drey-ecken.

Vom aufz.rech. der Spb. gerad. winkl. Drey-ecken. 17

| | | | | |
|-----------------------|---|------------|--------------------------|----------------------------------|
| Die seiten | $\left\{ \begin{array}{l} AB \\ BC \end{array} \right.$ | 865
632 | 7. 0629839
7. 1992829 | Arith. erfüll.
Arith. erfüll. |
| Der unterschied | AB | 522 | 2. 7176705 | |
| Der unterschied | BC | 755 | 2. 8779469 | |
| Summe | | | 19. 8578842 | |
| Die helffte der Summe | | | 9. 9289421 | wie zu vor. |

Die IV Aufgabe. *Wan die winckel und eine seite fürgegeben, die andre derselben seite zu finden.*

Wie der Sinus des winckels der vorgegebenen entgegen stehenden
 Zu der fürgestellten seite; (seite/
 Also ist der Sinus des winckels der entgegen stehenden gesuchten seite/
 Zu der begebenen seite. (te/

Die V Aufgabe. *Wan zwei seiten und ein zwischen liegender winckel fürgegeben, die dritte seite zu finden.*

Suchet erstlich die winckel nach der dritten Aufgabe dieses Capitels / folgendes die gesuchte seite nach der vorhergehenden vierden Aufgabe.

Das IV. CAPITTEL.

Vom aufz-rechnen der Sphaerischen geradwincklichten Drey-ecken.

Erinnerungen.

Erstlich. Wan das bein ein Quadrant ist / wird derselben entgegen stehender winckel getade seyn / so es geringer als der Quadrant / ist er scharff / so es grösser / ist er stumpff / und dagegen.

2. So das bein ein Quadrant ist / wird die Hypothenusa auch ein Quadrant seyn : So sie alle beyde als die Quadrante kleiner oder grösser seyn / wird die Hypothenusa kleiner als der Quadrant. So aber eines der beinen als der Quadrant grösser / und das ander geringer ist / wird die Hypothenusa grösser dan der Quadrant / und zu wieder seyn.

3. So ein Winkel der Hypothenusa bey gefügt, gerad ist / wird die Hypothenusa ein Quadrant: so sie alle beyde als die gerade grösser und kleiner seyn / wird die Hypothenusa kleiner als der Quadrant.

So etwan einer der beyden als die gerade grösser oder kleiner seyn / wird die Hypothenusa grösser als die Quadrant seyn / und ja gegen.

4. Drey Winkel einer jeglichen Sphärischen Drey-ecken sind grösser den zwey gerade.

Die I Aufgabe. *Wan ein der stumpffen winckel und ein bein das dabey gefügt, bekannt, den andern stumpffen winckel zu finden.*

Wie der ganze Sinus,

Zu dem Sinus des fürgegebenen stumpffen winckels /

Also ist der Tangens der erfüllung des fürgegebenen beins /

Zu dem Sinus der erfüllung des gesuchten winckels.

Die II Aufgabe. *Wan ein bein und der stumpffe winckel demselben entgegen gesetzt, bekannt, den anderen stumpffen winckel zu finden: So man weisz, ob er scharff oder stumpff sey, oder so die Hypothenusa oder das ander bein geringer oder grösser als der Quadrant sey.*

Wie der Sinus der erfüllung des begehrten beins /

Zu dem Sinus der erfüllung des fürgegebenen winckels /

Also ist der ganze Sinus,

Zu dem Sinus des gesuchten winckels.

Ein andere.

Wie der ganze Sinus,

Zu dem Secante des fürgestellten beins;

Also ist der Sinus der erfüllung des fürgegebenen winckels /

Zu dem Sinus des gesuchten winckels.

Die III Aufgabe. *Wan die Hypothenusa und ein bein bekannt, den winckel gegen dem bein überstehend zu finden.*

Wie

Wie der Sinus der Hypothenusa,
 Zu dem ganzen Sinus,
 Also ist der Sinus des bekanten beins/
 Zu dem begehrten winkel.

Anders.

Wie der ganze Sinus,
 Zu dem Secante der erfüllung der Hypothenusa;
 Also ist der Sinus des bekanten beins/
 Gegen den Sinum des begehrten winkels.

Die I V. Aufgabe. *Wan die beine bekant seyn, einen
 jeden krummen winkel zu finden.*

Wie der Sinus des beins / so gegen dem gesuchten winkel ligt /
 Zu dem ganzen Sinus;
 Also ist der Tangens des andern beins/
 Zu des begehrten winkels Tangente.

Anders.

Wie der ganze Sinus,
 Zu dem Secante der erfüllung des am dem begehrten winkel
 Also ist der Tangens des andern beins / (stehenden beins;
 Zu des begehrten winkels Tangente.

Die V Aufgabe. *Wan die Hypothenusa sampt
 einem bein bekant, den zwischten liegenden
 winkel zu erfinden.*

Wie der ganze Sinus,
 Zu dem Tangente der erfüllung der Hypothenusa;
 Also ist der Tangens des für gegebenem beins /
 Gegen den Sinum der erfüllung des begehrten winkels.

Die VI Aufgabe. *Wan die Hypothenusa und
 ein krummer winkel bekant, den anderen
 krummen winkel zu finden.*

Wie der ganze Sinus,

Zu dem Sinus der erfüllung der Hypothenusa;

Also ist der Tangens des vorgebenen krummen wincels /

Gegen den Tangentem der erfüllung des begehrten wincels.

Die VII Aufgabe. *Wan die Hypothenusa mit dem krummen wincel bekant, das bein so dem wincel entgegen gesetzt ist, zu finden.*

Wie der ganze Sinus,

Zu dem Sinus der Hypothenusen;

Also ist der Sinus des vorgegebenen krummen wincels /

Zu dem Sinus des begehrten beins.

Die VIII Aufgabe. *Wan die Hypothenusa und ein bein bekant, das andere bein zu finden.*

Wie der Sinus der erfüllung des begehrten beins /

Zu dem ganzen Sinus;

Also ist der Sinus der erfüllung der Hypothenusa,

Zu dem Sinus der erfüllung des begehrten beins.

Anders.

Wie der ganze Sinus,

Gegen den Secanten des fürgegebenen beins;

Also ist der Sinus der erfüllung der Hypothenusa,

Zu dem Sinus der erfüllung des begehrten beins.

Die IX Aufgabe. *Wan die winceln bekant, ein jedwedcs bein zu finden.*

Wie der ganze Sinus der erfüllung des an dem begehrten wincel-

Zu dem ganzen Sinus,

(liegenen beins /

Also ist der Sinus der erfüllung des andern krummen wincels /

Gegen den Sinum der erfüllung des begehrten beins.

An-

Anders.

Wie der ganze Sinus, (dem begehrten bein stehet ;
 Zu dem Secanten der erfüllung des krummen winckels / der bey
 Also ist der Sinus der erfüllung des andern krummen winckels /
 Gegen den Sinum der erfüllung des begehrten beins.

Die X Aufgabe. *Wan ein bein mit dem krummen
 winckel der demselben bey ligt, bekant, das
 andere bein zu finden.*

Wie der ganze Sinus,
 Zu dem Sinus des begehrten beins;
 Also ist der Tangens des fürgegebenen krummen winckels /
 Zu dem Tangenten des begehrten beins.

Die XI Aufgabe. *Wan ein bein mit einem krummen
 winckel demselben entgegen gesetzt, bekant, das andere
 bein zu finden. So man nur weiß, dasz das begehrte
 bein, oder die Hypothenufa kleiner oder grösser, als
 ein Quadrant ist, oder dasz der ander krumme winckel
 scharff oder stumpf sey.*

Wie der ganze Sinus,
 Zu dem Tangenten der erfüllung des fürgegebenen krummen
 Also ist der Tangens des fürgegebenen beins / (winckels ;
 Zu dem Sinus des begehrten beins.

Die XII Aufgabe. *Wan die Hypothenufa mit dem
 krummen winckel bekant, das bein so dem
 winckel anhangt zu finden.*

Wie der ganze Sinus,
 Zu dem Sinus der erfüllung des begehrten krummen winckels ;
 Also ist der Tangens der Hypothenufa,
 Zu dem Tangenten des gesuchten beins.

Die XIII Aufgabe. *Wan die winckel bekant, die
 Hypothenufam zu finden.*

22 Vom aufz. rech. der Sp. gr. Winkl. Drey-cken.

Wie der ganze Sinus, (Fels;
Zu dem Tangenten der Erfüllung eines jeden krummen Winc-
Also ist der Tangens der Erfüllung des andern krummen Winkels/
Zu dem Sinus der Erfüllung der Hypothenusa.

Die XIV Aufgabe. *Wan die beine bekant, die Hypothenusam zu finden.*

Wie der ganze Sinus,
Zu dem Sinus der Erfüllung eines rechten beins;
Also ist der Sinus der Erfüllung des andern beins/
Zu dem Sinus der Erfüllung der Hypothenusa.

Die XV Aufgabe. *Wan ein bein, sampt dem krummen, demselben bein. entgegen stehenden winckel bekant, die Hypothenusam zu finden. In dem man weiß, daß die Hypothenusa oder eines der beine kleiner oder größer als ein Quadrant ist, oder daß der ander ungleiche winckel spitz oder stumpff ist.*

Wie der Sinus des fürgestellten krummen Winkels/
Gegen den ganzen Sinum;
Also ist der Sinus des fürgegebenen beins/
Gegen den Sinum der Hypothenusa.

Anders.

Wie der ganze Sinus,
Gegen Erfüllung des begebenen krummen Winkels;
Also ist der Sinus des bekanten beins/
Gegen den Sinum der Hypothenusa.

Die XVI Aufgabe. *Wan ein bein mit dem krummen winckel an dem bein ligend bekant, die Hypothenusam zu finden.*

Wie der ganze Sinus, (Fels;
Gegen den Sinum der Erfüllung des begebenen krummen Winc-
Also ist der Tangens der Erfüllung des bekanten beins/
Gegen den Tangenten der Erfüllung der Hypothenusa.

Das

Das V. CAPITEL.

Vom auflösen der runden, krum-winkelichten Drey-ecken.

Diese das meiste theil der runden-krum-winkelichten Drey-ecken aufgelöst werde / müssen dieselben zwangleich-winkelichte Drey-ecken / durch hülff des senckrechts gebracht werden / gezogen auß dem ende der einen bekanten seiten die an dem andern ende einen bekanten winkel hat / der auß dem grunde (so es von nöthen) verlängert ist / und werden als dan die begehriten enden gefunden / durch die bekanten enden der gleich-winkelichten Drey-ecken: weilen aber die art durch erfundung des wäg-rechts (welches zum wenigsten dreyerley mühe erfordert) gemein ist / und durch die vorhergebene Aufgaben geschehen kan / wollen wir dieselbe zu erklären vorbej gehen und bloß anzeigen / wie die Drey-ecken ohne erfundung des wäg-rechts / mit zweyerley mühe allein können aufgelöst werden; und an statt derselben mit vielen worten zu erklären / dasselbe kürzlich mit Buchstaben verrichten / die solches zu zeigen begehren / werden es bey Herrn Henrico Briggio, in seiner Trigonometria Britannica erfinden.

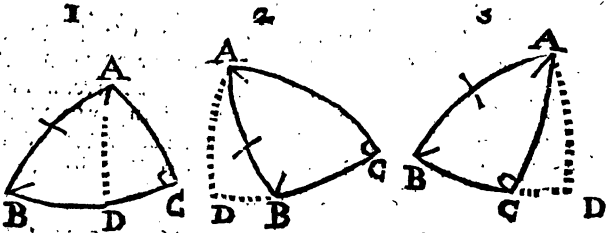
Dieses durch folgende Aufgabe zu verrichten / so setze bey der fürgegebenen Drey-ecken der Buchstaben $A B C$, den Buchstaben A bey der ecken / auß welcher das wäg recht soll gezogen werden. B bey den winkel / der an der bekanten seiten stebet / und C bey den dritten winkel / woselbsten das wäg-recht den grund theilet zu den rechten winkeln / zeichne den Buchstaben D , wann diese winkel gezeichnet seyn / müssen die seiten einer jeden Drey-ecken auch gezeichnet werden.

So die winkeln B und C (die den grund $B C$ rühren) scharff seyn / soll das wäg-recht inwendig der Drey-ecken fallen / so B stumpf / außwendig B , so C stumpff ist / außserhalb C .

Aufmerckung.

Wenn wir erwöhnet haben / daß das wäg-recht muß auß dem ende-punct / und der bekanten seiten / haltend an dem andern ende-punct einen bekanten winckel / gezogen werden / und solches biß-weiln (als in der 1. 4. 9. und 12ten Aufgabe) auff zweyerley weise geschehen kan / wollen wir berowegen in der vierden und zwölfften Aufgabe erinnern / woher dieses wäg-recht in diesem fall notwen-dig muß gezogen werden. In den andern beyden mag solches ohne unterschied geschehen.

Die IV Aufgabe. *Wan zween winckel und eine dar zwischen liegende seite bekant, den dritten winckel zu erfinden.*



1. Wie der ganze Sinus,
Gegen den Sinum der erfüllung von AB
Also ist der Tangens von ABC
Gegen den Tangentem der erfüllung von BAD
Wen BAD gefunden ist / wird CAD bekant.
2. Wie der Sinus von BAD
Gegen den Sinum von CAD
Also ist der Sinus der erfüllung von ABC
Gegen den Sinum der erfüllung von ACD .

Ermahnung.

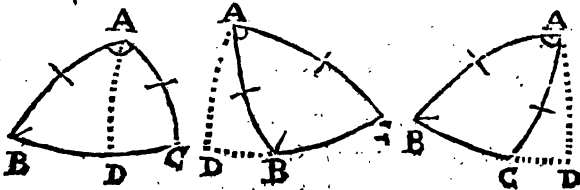
In der ersten und andern Drey-ecken / ABD , ist eben dieselbe ecke / welche ACB , in der dritten aber / wan ACD gefunden / muß man dessen erfüllung zu 180 graden nehmen / damit der winckel ACB erhalten wird.

Die Leichtigkeit dieser Rechnung durch diese ebenmäßige darzu thun / wollen wir einen Beweis mit der kurzen Art es zu machen geben.

In der ersten Drey-ecken BAC die krum-winkelicht ist / wird der Winkel BAC 140° graden / $0'$, der Winkel ABC 38° graden / $0'$, und die Seite AB 38 gr. $0'$, gegeben / wird der Winkel ACB gesucht.

| | I. | Logarithmi. | 2. | Logarithmi. |
|----------------------------------|----|-------------|------------------|-------------|
| AB 30 gr. $0'$ Sin. erfüll. | | 9.9375306 | | |
| ABC 38 gr. $0'$ Tangens | | 9.8928098 | Si. c. 9.8969321 | |
| BAD 55 g. 55 der Tan. erfül. | | 19.8303404 | Si. o. 0.0818525 | ar. co. |
| CAD 48 g. 5 | | | Si. 9.8716414 | |
| ABC 44 g. 56 | | | Si. e. 9.8500260 | |

Die II Aufgabe. *Wan zwei seiten und ein winckel gegen einer derselben überstehend bekant, den winckel von derselben begriffen, zu finden.*



- Wie der ganze Sinus,
Gegen den Sinum der erfüllung von AB
Also ist der Tangens von ABC
Gegen den Tangentem der erfüllung von BAD
- Wie der Tangens von AC
Gegen den Tangentem von AB
Also ist der Sinus der erfüllung von BAD
Gegen den Sinum der erfüllung von CAD.

So bald man weiß zwischen der Drey-ecken fällt / soll die Summe von $\angle BAD$ und $\angle CAD$, der begehrte Winkel seyn $\angle BAC$; so es aber außershalb fällt ist derselben unterschied $\angle BAC$, der gesuchte Winkel.

Die III Aufgabe. Wan zweyen Winkel und eine Seite, gegen einem derselben nebenstehend bekannt, den dritten Winkel zu finden: wan man weiß, ob sie scharff oder stumpff seyn, oder daz, die Gestalt derselben Seite, dem andern fürgegebenen Winkel überstehend bekannt werde.



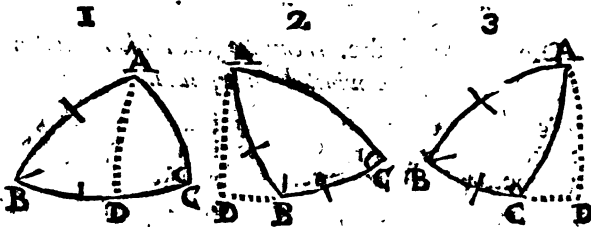
1. Wie der ganze Sinus,
Gegen den Sinum der erfüllung von $\angle A B$
Also ist der Tangens von $\angle A B C$
Gegen den Tangentem der erfüllung von $\angle B A D$
2. Wie der Sinus der erfüllung von $\angle A B C$
Gegen den Sinum der erfüllung von $\angle B A C$
Also ist der Sinus von $\angle B A D$
Gegen den Sinum von $\angle C A D$.

So das wäg-recht inwendig der Drey-ecken fällt / ist die Summe $\angle BAD$ und $\angle CAD$, die begehrte ecke $\angle BAC$; so es aber außwendig fällt / ist der unterschied derselben der gesuchte Winkel $\angle BAC$.

Die IV Aufgabe: Wenn zwei Seiten und ein Winkel der selben bekant, oder der andere Winkel zu finden.

Beobachtung,

In diesem fall muß das wag-recht notwendig auß der seite die gegen dem begehrten winkel über stoßt / gezogen werden.



1. Wie der ganze Sinus,
 Gegen den Sinum der erfüllung von $\frac{A \cdot BC}{AB}$
 Also ist der Tangens von $\frac{AB}{BD}$
 Gegen den Tangentem von BD

Wan B D erfunden ist / wird $C'D$ bekant.

2. Wie der Sinus von $\frac{C'D}{BD}$
 Gegen den Sinum von $\frac{A \cdot BC}{AB}$
 Also ist der Tangens von $\frac{A \cdot C'D}{A \cdot C'D}$
 Gegen den Tangentem von $A \cdot C'D$

In den ersten und anderen Drey-ecken ist der winkel $A C D$, eben derselbe als $A C B$. In der dritten aber wan $A C D$ gefunden ist / muß man seine erfüllung zu 180 graden nehmen / damit man den begehrten winkel $A C B$ bekommen kan.

Die V Aufgabe. *Wenn zwei seiten bekant, mit einem gegen der selben überstehendem winckel; den winckel so dem andern über zu gegen stebet zu finden: so man weißz ob er scharff oder stumpf sey.*

Wie der Sinus der seiten gegen dem bekantem winckel überstehend/
Gegen den Sinum des fürgestellten winckels;
Also ist der Sinus der andern vorgebenen seiten/
Gegen den Sinum des begehrten winckels.

Die VI Aufgabe. *Wenn die seiten bekant, einen jeden winckel zu erfinden.*

Es werden drey seiten zu sammen gethan / und zins der helffte / jeder seite die den begehrten winckel begreifen / abgezogen / damit dessen unterschied erhalten werde: und wird seyn /

1. Wie der Sinus der einen seiten / die den begehrten winckel in sich
Gegen den Sinum des gefundenen unterschieds; (helt/
Also ist der Sinus des andern unterschieds /
Gegen den vierden Sinum.
2. Wie der Sinus der andern seiten / die den begehrten winckel in
Gegen den ganzen Sinum; (sich helt/
Also ist der vierdte Sinus,
Gegen den siebenden Sinum.

Diesen siebenden Sinum vermehrt mit dem ganzen Sinu, soll die schacht-wurzel der Summen der Sinus des halben begehrten winckel seyn.

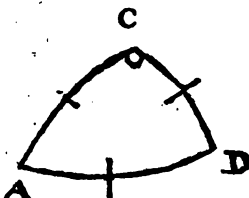
Oder leichter durch die Logarithmos: man thue den Logarithmum des ganzen Sinus, zu dem Logarithmo des siebenden Sinus, die helffte der Summe wird der Logarithmus des Sinus von dem halben begehrten winckel seyn.

Oder thue die Arithmetische erfüllungen des Sinus der seiten die den begehrten winckel in sich begreifen zu sammen / bey den Logarithmum der Sinuum derer gefundenen unterschieden / die helffte der Summe / soll der Logarithmus des Sinus der halben begehrten seiten seyn: Zum Exempel.

Rund-krum-winkelichten Drey-ecken. 29

In der Drey-ecken ACD, werden die seiten AD 42 gr. 8'. AC 30 gr. 0'. und CD 24 gr. 4'. für gegeben / und wird also der winkel ACD gesucht.

| | | |
|------------------------------|----------|-----------------|
| AD | 42. 8' | Logarithmi. |
| AC | 30. 0' | 0.3010300 |
| AD | 24. 4' | 0.3895535 |
| Summe | 96. 12' | |
| halbe Summe | 48. 6' | |
| unterscheid AC | 18. 6' | 9.4923083 |
| unterscheid CD | 24. 2' | 9.6098803 |
| Summe | | 19.7927721 |
| Die $\frac{1}{2}$ sum. is Si | 51. 58' | 9.8963860 |
| Verdoppel. is | 103. 56' | der winkel ACD. |



Die VII Aufgabe. Wenn die winkel bekannt, eine seite zu finden.

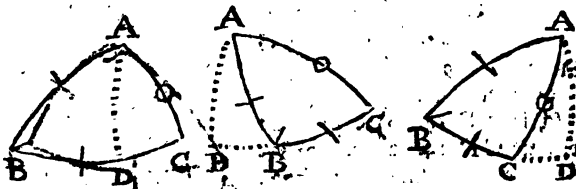
So die den winkeln gegen überstehende seiten verändert werden / und an statt der grossen ecken / und der gegen überstehenden seiten / die erfüllung zu 180 graden genommen wird / soll man wie in vorhergehender Aufgabe fortfahren.

Die VIII Aufgabe. Wenn zweyen winkel und die seite einer derselben entgegen stehend bekannt, die seiten der anderen entgegen stehend zu finden. So man weiss ob sie kleiner oder grösser als ein Quadrant seyn.

Wie der Sinus des winkels der fürgegebenen seiten entgegen steht / Gegen den Sinum derselben seiten; (hend /

Also ist der Sinus des andern fürgestellten winkels / Gegen den Sinum der gefuchten seiten.

Die XI. Aufgabe. Wenn zwei Seiten und ein Winkel der selben bekannt, den sie in sich halten, die dritte Seite zu finden.

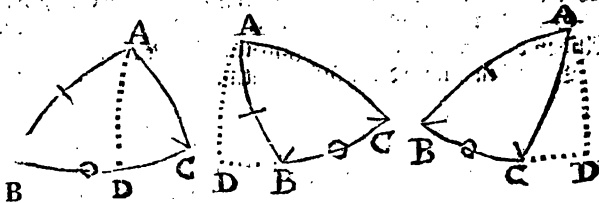


1. Wie der ganze Sinus,
Gegen den Sinum der Erfüllung von $\angle A$
Also ist der Tangens von $\angle B$
Gegen den Sinum BD ein von BD
Wan BD erfunden, kan man CD auch erfunden.
2. Wie der Sinus der Erfüllung von $\angle C$
Gegen den Sinum der Erfüllung von $\angle A$
Also ist der Sinus der Erfüllung von $\angle C$
Gegen den Sinum der Erfüllung von $\angle A$

ABC
 BC
 BD

BD
 CD
 AB
 AC

Die X. Aufgabe. Wenn zwei Winkel und eine gegen der selben überstehende Seite bekannt, zu finden die Seite so zwischen den ecken steht. So man weiß, ob die begehrte Seite, oder die Seite gegen der bekanten ecken überstehend, kleiner oder grösser als ein Quadrant ist.



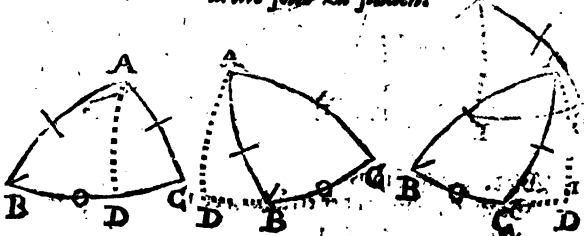
Regel zum Winkeligen Dreieck

1. Wie der ganze Sinus,
Gegen den Sinum der Erfüllung von
Also ist der Tangens von
Gegen den Tangentem von
2. Wie der Tangens von,
Gegen den Tangentem von
Also ist der Sinus von
Gegen den Sinum von

ABC
AB
ACB,
ACB
ABC
BD
CD.

So das wäg-recht fällt zwischen eine Dreieck ist die Summe
B D, C D, so draussen der unterschied derselben ist die Seite B C.

Die XI Aufgabe. Wenn zwei Seiten und ein gegen
derselben stehender Winkel bekannt, die
dritte Seite zu finden.



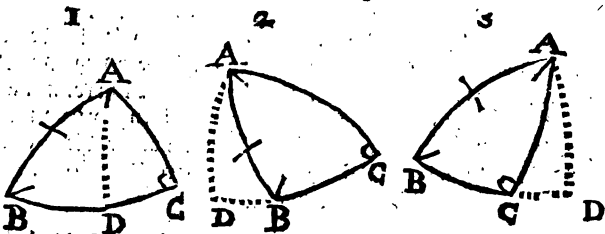
1. Wie der ganze Sinus,
Gegen den Sinum der Erfüllung von
Also ist der Tangens von
Gegen den Tangentem von
2. Wie der Sinus der Erfüllung von
Gegen den Sinum der Erfüllung von
Also ist der Sinus zu Erfüllung von
Gegen den Sinum der Erfüllung von

ABC
AB
BD.
AB
AC
BD
CD.

Aufmerckung.

Weln wir erwehnet haben / daß das wäg-recht muß auß dem ende-punct / und der bekanten seiten / haltend an dem andern ende-punct einen bekanten winckel / gezogen werden / und solches bis- weilen (als in der 1. 4. 9. und 12ten Aufgabe) auff zweyerley weise geschehen kan / wollen wir derowegen in der vierden und zwölfften Aufgabe erinnern / woher dieses wäg-recht in diesem fall notwen- dig muß gezogen werden. In den andern beyden mag solches ohne unterschied geschehen.

Die IV Aufgabe. Wan zweem winckel und eine dar zwischen liegende seite bekant, den dritten winckel zu erfinden.



1. Wie der ganze Sinus,
Gegen den Sinum der erfüllung von AB
Also ist der Tangens von ABC
Gegen den Tangentem der erfüllung von BAD .
Wen BAD gefunden ist / wird CAD bekant.
2. Wie der Sinus von BAD
Gegen den Sinum von CAD
Also ist der Sinus der erfüllung von ABC
Gegen den Sinum der erfüllung von ACD .

Ermahnung.

In der ersten und andern Drey-ecken / ABD , ist eben dieselbe ecke / welche ACB , in der dritten aber / wan ACD gefunden / muß man dessen erfüllung zu 180 graden nehmen / damit der winckel ACB erhalten wird.

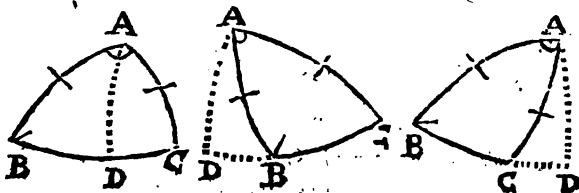
rund-krum-winkelichten Drey-ecken. 25

Die Leichtigkeit dieser Rechnung durch diese ebene Weise darzu thun / wollen wir einen Beweis mit der kurzen Art es zu machen geben.

In der ersten Drey-ecken BAC die krum-winkelicht ist / wird der Winkel BAC 140 graden / 0', der Winkel ABC 38 graden / 0', und die Seite AB 38 gr. 0', gegeben: wird der Winkel ACB gesucht.

| | | | |
|------------------------------|-------------|------------------------|-------------|
| I. | Logarithmi. | 2. | Logarithmi. |
| AB 30 gr. 0' Sin. erfüllt. | 9.9375306 | Si.e. 9.8969321 | |
| ABC 38 gr. 0' Tangens | 9.8928098 | Si.n. 0.0818525 ar.co. | |
| BAD 55 g. 55 der Tan. erfül. | 19.8303404 | Si.n. 9.8716414 | |
| CAD 48 g. 5 | | Si.t. 9.8500260 | |
| ABC 44 g. 56 | | | |

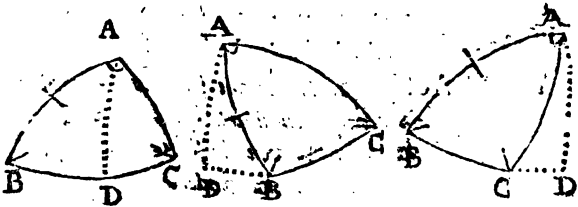
Die II Aufgabe. *Wan zwei seiten und ein winkel gegen einer derselben überstehend bekannt, den winkel von derselben begriffen, zu finden.*



- Wie der ganze Sinus, :
Gegen den Sinum der Erfüllung von AB
Also ist der Tangens von ABC
Gegen den Tangentem der Erfüllung von BAD
- Wie der Tangens von AC
Gegen den Tangentem von AB
Also ist der Sinus der Erfüllung von BAD
Gegen den Sinum der Erfüllung von CAD.

So das wag-recht inwendig der Drey-ecken fällt, ist die Summe von BAD und CAD , der begehrte winkel seyn BAC ; so es aber außershalb fällt ist derselben unterschied BAC , der gesuchte winkel.

Die III Aufgabe. *Wan zween winkel und eine seite, gegen einem derselben nebenstehend bekannt, den dritten winkel zu finden: wan man weiß, ob sie scharff oder stumpff seyn, oder dasz die gestalt derselben seite, dem andern fürgegebenen winkel überstehend bekannt werde.*



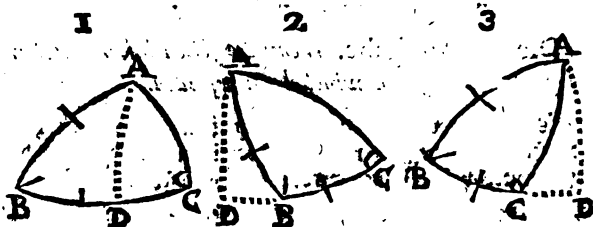
1. Wie der ganze Sinus,
Gegen den Sinum der erfüllung von AB
Also ist der Tangens von ABC
Gegen den Tangentem der erfüllung von BAD
2. Wie der Sinus der erfüllung von ABC
Gegen den Sinum der erfüllung von BAC
Also ist der Sinus von BAD
Gegen den Sinum von CAD .

So das wag-recht inwendig der Drey-ecken fällt, ist die Summe BAD und CAD , die begehrte ecke BAC ; so es aber außwendig fällt, ist der unterschied derselben der gesuchte winkel BAC .

Die IV Aufgabe. Wenn zwei Seiten mit ein Winkel der selben Art sind, einander widerwärtigen Winkel gefunden.

Beobachtung,

In diesem fall muß das wag-recht notwendig auß der seite / die gegen dem begehrten winkel überstohet / gezogen werden.



1. Wie der ganze Sinus,
Gegen den Sinum der erfüllung von $\triangle ABC$
Also ist der Tangens von AB
Gegen den Tangentem von BD

Wan BD erfunden ist / wird CD bekant.

2. Wie der Sinus von CD
Gegen den Sinum von BD
Also ist der Tangens von ABC
Gegen den Tangentem von $A'CD$.

In den ersten und andern Drey-cken ist der winkel ACD , eben derselbe als ACB . In der dritten aber wan ACD gefunden ist / muß man seine erfüllung zu 180 graden nehmen / damit man den begehrten winkel ACB bekommen kan.

Die V Aufgabe. *Wan zwei seiten bekant, mit einem gegen derselben überstehendem winckel; den winckel so dem anderen über zu gegen stebet zu finden: so man weiß, ob er scharff oder stumpf sey.*

Wie der Sinus der seiten gegen dem bekantem winckel überstehend/
Gegen den Sinum des fürgestellten winckels;
Also ist der Sinus der andern vorgebenen seiten/
Gegen den Sinum des begehrten winckels.

Die VI Aufgabe. *Wenn die seiten bekant, einen jeden winckel zu erfinden.*

Es werden drey seiten zu sammen gethan / und zins der helffte / jeder seite die den begehrten winckel begreifen / abgezogen / damit dessen unterschied erhalten werde: und wird seyn /

1. Wie der Sinus der einen seiten / die den begehrten winckel in sich
Gegen den Sinum des gefundenen unterschieds; (helt/
Also ist der Sinus des andern unterschieds /
Gegen den vierden Sinum.
2. Wie der Sinus der andern seiten / die den begehrten winckel in
Gegen den ganzen Sinum; (sich helt/
Also ist der vierdte Sinus,
Gegen den siebenden Sinum.

Diesen siebenden Sinum vermehrt mit dem ganzen Sinu, soll die schacht-wurzel der Summen der Sinus des halben begehrten winckel seyn.

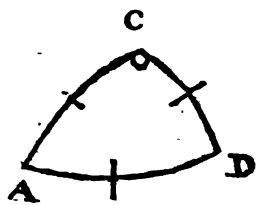
Oder leichter durch die Logarithmos: man thue den Logarithmum des ganzen Sinus, zu dem Logarithmo des siebenden Sinus, die helffte der Summe wird der Logarithmus des Sinus von dem halben begehrten winckel seyn.

Oder thue die Arithmetische erfüllungen des Sinus der seiten die den begehrten winckel in sich begreifen zu sammen / bey den Logarithmum der Sinuum derer gefundenen unterschieden / die helffte der Summe / soll der Logarithmus des Sinus der halben begehrten ecken seyn: Zum Exempel.

Rund-krum-winkellichten Drey-ecken. 29

In der Drey-ecken A C D, werden die seiten A D 42 gr. 8'. A C 30 gr. 0'. und C D 24 gr. 4'. fürgegeben / und wird also der winkel A C D gesucht.

| | | |
|------------------------------|----------|-------------------|
| A D | 42. 8' | Logarithmi. |
| A C | 30. 0' | 0.3010300 |
| A D | 24. 4' | 0.3895535 |
| Summe | 96. 12' | |
| halbe Summe | 48. 6' | |
| unterscheid AC | 18. 6' | 9.4923083 |
| unterscheid CD | 24. 2' | 9.6098803 |
| Summe | | 19.7927721 |
| Die $\frac{1}{2}$ sum. is Si | 51. 58' | 9.8963860 |
| Verdoppel. is | 103. 56' | der winkel A C D. |



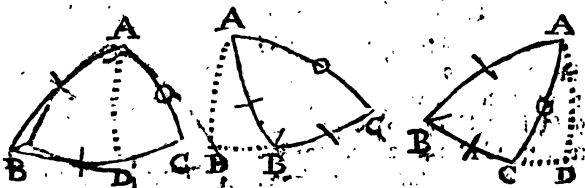
Die VII Aufgabe. Wenn die winkel bekannt, eine seite zu finden.

So die den winkeln gegen überstehende seiten verändert werden / und an statt der grossen eckey / und der gegen überstehenden seiten / die erfüllung zu 180 graden genommen wird / soll man wie in vorhergehender Aufgabe fortfahren.

Die VIII Aufgabe. Wenn zweyen winkel und die seite einer derselben entgegen stehend bekannt, die seiten der anderen entgegen stehend zu finden. So man weiß ob sie kleiner oder grösser als ein Quadrant seyn.

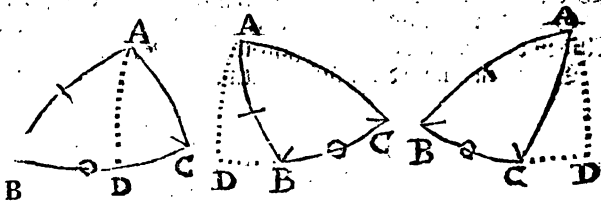
Wie der Sinus des winkels der fürgegebenen seiten entgegen stehend / Gegen den Sinum derselben seiten; (hend /
 Also ist der Sinus des andern fürgestellten winkels / Gegen den Sinum der gesuchten seiten.

Die XI. Aufgabe. Wenn zwei seiten und ein winkel der selben bekannt, den sie in sich halten, die dritte seite zu finden.



1. Wie der ganze Sinus,
Gegen den Sinum der erfüllung von $\widehat{A} B C$
Also ist der Tangens von BC
Gegen den Tangentem von $\widehat{A} B D$ BD
Wan BD erfunden / kan man CD auch erkennen.
2. Wie der Sinus der erfüllung von $\widehat{B} D C$
Gegen den Sinum der erfüllung von $\widehat{A} B C$ CD
Also ist der Sinus der erfüllung von $\widehat{A} B C$ AB
Gegen den Sinum der erfüllung von $\widehat{A} C D$ AC

Die X. Aufgabe. Wenn zwei winkel und eine gegen der selben überstehende seite bekannt, zu finden die seite so zwischen den ecken steht. So man weiß, ob die bekehrte seite, oder die seite gegen der bekantesten ecken überstehend, kleiner oder grösser als ein Quadrant ist.

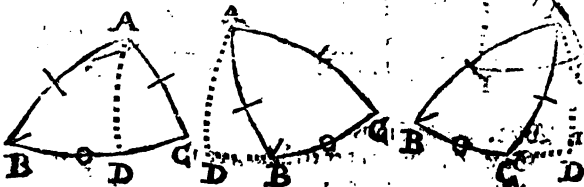


Regel zum Winkellichten Dreieck

- | | |
|---|-------------------------|
| 1. Wie der ganze Sinus,
Gegen den Sinum der Erfüllung von
Also ist der Tangens von
Gegen den Tangentem von | ABC
AB
ACB, |
| 2. Wie der Tangens von,
Gegen den Tangentem von
Also ist der Sinus von
Gegen den Sinum von | ACB
ABC
BD
CD. |

So das wäg-recht fällt zwischen eine Dreieck/ist die Summe
BD, CD, sodaussen/der unterschied derselben ist die Seite BC.

Die XI Aufgabe. Wann zwei Seiten und ein gegen
derselben stehender Winkel bekannt, die
dritte Seite zu finden.



- | | |
|---|-----------------------|
| 1. Wie der ganze Sinus,
Gegen den Sinum der Erfüllung von
Also ist der Tangens von
Gegen den Tangentem von | ABC
AB
BD. |
| 2. Wie der Sinus der Erfüllung von
Gegen den Sinum der Erfüllung von
Also ist der Sinus zu Erfüllung von
Gegen den Sinum der Erfüllung von | AB
AC
BD
CD. |

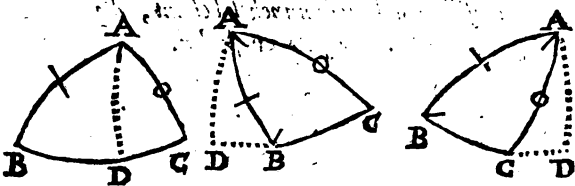
32 Vom auflösen der rund-kreis-winkel, Drey-ecken.

So das wäg-recht zwischen die Drey-cken fällt / ist die Summe BD , CD , so es aber draussen / wird derrer unterschied die be-gehrte seite BC seyn.

Die XII Aufgabe. Wenn die zween winckel und eine dar zwischen liegende seite bekant, seine andre seite zu finden.

Erinnerung.

In diesem fall muß das wäg-recht nothwendig auß dem bekant-ten winckel / an der bekehrten seite liegend gezogen werden.



1. Wie der ganze Sinus,
 Gegen den Sinum der erfüllung von AB
 Also ist der Tangens von ABC
 Gegen den Tangentem der erfüllung von BAD .

Wan BAD erfunden / wird CAD bekant.

2. Wie der Sinus der erfüllung von CBD
 Gegen den Sinum der erfüllung von CAD
 Also ist der Tangens von AB
 Gegen den Tangentem von AC .

A N H A N G.

Der Astronomischen Fragen.

Die erste Aufgabe. *Wan die größte abweichung der Ecliptica und die weite der Sonnen von dem nechsten Aequinoctio bekant, dessen Declination zu finden.*

Wie der ganze Sinus, (quinoctio;
Gegen den Sinum der weite der Sonnen von dem nechsten A-
Also ist der Sinus von der größten abweichung der Eclipticz,
Zu der begehrten Declination.

Die größte abweichung ist zu selu befunden bey Herrn Tycho
Drabe 28 graden 31. 30".

Die II Aufgabe. *Wan die größte abweichung der Ecliptica und die Declination der Sonnen bekant, dessen stell in der Ecliptica zu finden.*

Wie der Sinus der größten abweichung von der Ecliptica,
Gegen den Sinum der Declination der Sonnen;

Also ist der ganze Sinus, (quinoctio.
Gegen den Sinum der weite der Sonnen von dem nechsten A-

Die III Aufgabe: *Wan die größte abweichung von der Ecliptica und die distantz der Sonnen von dem nechsten Aequinoctio bekant, seine rechte erböhung zu finden.*

Wie der ganze Sinus,
Gegen den Sinum der erfüllung von der größten abweichung;
Also ist der Tangens der weite der Sonnen von dem nechsten A-
Gegen den Tangentem der begehrten rechten erböhung. (quin.

Die IV Aufgabe. *Wan die größte abweichung von der Ecliptica bekant, und die Declination der Sonnen, deren rechte erböhung zu finden.*

Wie der ganze Sinus,
Gegen den Tangentem der Declination der Sonnen;
Also ist der Tangens der erfüllung von der größten abweichung /
Gegen den Sinum der recht begehrten erböhung.

Die V Aufgabe. *Wan die größte abweichung von der Ecliptica und die weite der Sonnen von dem neabsten Æquinoctio bekant, den winckel so die Ecliptica mit dem Meridiano macht zu finden.*

Wie der ganze Sinus, (Nächsten Æquinoctii ;
Gegen den Sinum der erfüllung von der weite der Sonnen des
Also ist der Tangens der größten abweichung von der Ecliptica,
Gegen den Tangentem der erfüllung des bekehrten winckels.

Die VI Aufgabe. *Wan die größte abweichung von der Ecliptica und die Declination der Sonnen bekant, zu finden den winckel den die Ecliptica mit dem Meridiano maach.*

Wie der Sinus der erfüllung von der Declination der Sonnen /
Gegen den Sinum der erfüllung der größten abweichung ;
So ist der ganze Sinus,
Gegen den Sinum des bekehrten winckels.

Die VII Aufgabe. *Wan die Declination der Sonnen und die höhe des Poli bekant, der Sonnen weite in Osten and Westen zu finden.*

Wie der Sinus der erfüllung des Poli höhe /
Gegen den Sinum der Sonnen Declination ;
Also ist der ganze Sinus,
Gegen den Sinum der bekehrten weite.

Der VIII Aufgabe. *Wan die Declination der Sonnen und des Poli höhe bekant, den auffsteigenden unterscheid zu finden.*

Wie der ganze Sinus,
Gegen den Tangentem der Sonnen Declination ;
Also ist der Tangens des Poli höhe /
Gegen den Sinum des bekehrten auffsteigenden unterscheids.

Die IX Aufgabe. *Wan die Declination der Sonnen und des Poli höhe bekant, die stunde wan die Sonne auff und nieder getet zu finden.*

Wie der gantze Sinus,

Gegen den Tangentem der Sonnen Declination;

Also ist der Tangens des Poli höhe /

Gegen den Sinum der erfüllung des halben Nacht-bogens.

Der halbe Nacht-bogen wann er in die zeit gebracht ist / wird die stunde / worin die Sonne auffgehet / dar thun / welche von 12 stunden abgezogen / bleibt die stunde / wan die Sonne nieder gehet / übrig.

Die X Aufgabe. *Wan des Poli höhe und der Sonnen stunde, wan sie auff und nieder gehet bekannt, seine Declination und folgendes, welche tagen und stunden die Sonne auff und nieder gehet, zu finden.*

Wie der ganze Sinus,

Gegen den Sinum der fürgegebenen stunden;

Also ist der Tangens des Poli höhe /

Gegen den Tangentem der Sonnen Declination.

Die zeit deren fürgestellter stunde 6 stunden vorher gehen und folgen / sollen in die Equinoctialische graden verändert werden / und wird seyn.

Wieder ganze Sinus,

Gegen den Sinum des erfundenen Equinoctialischen Bogens /

Also ist der Tangens der erfüllung des Poli höhe /

Gegen den Tangentem der Sonnen Declination.

Die XI Aufgabe. *Wan des Poli höhe und der Sonnen Declination, wie auch des tages stunde bekannt, die höhe der Sonnen zu finden.*

I. Wie der ganze Sinus,

Gegen den Tangentem der erfüllung von des Poli höhe;

Also ist der Sinus der erfüllung der Sonnen weite vom Wiltage /

Gegen den Tangentem des erstgefundenen Bogens.

Man ziehe den erstgefundenen Bogen auß der weite der Sonnen von dem Polo ab / das übrige soll der ander gefundene Bogen seyn.

2. Wie der Sinus der erfüllung des gefundenen ersten Bogens /
Gegen den Sinum der erfüllung des erfundenen andern Bo-
Also ist der Sinus des Poli höhe / (gens
Gegen den Sinum der Sonnen höhe.

Der Sonnen höhe umb 6 uhren zu finden / muß man dieser
ordnung folgen.

Wie der ganze Sinus,
Gegen den Sinum der Sonnen Declination;
Also ist der Sinus des Poli höhe /
Gegen den Sinum der gesuchten höhe.

Die XII Aufgabe. *Wan der Azimuth und der Sonnen
Declination mit des tages stunde bekannt, die höhe der Son-
nen zu finden.*

Wie der Sinus des Azimuths der Sonnen von Mittag ab /
Gegen den Sinum der erfüllung von der Sonnen Declination;
Also ist der Sinus der weite der Sonnen von Mittag ab /
Gegen den Sinum der erfüllung der beehrten höhe.

Die XIII Aufgabe. *Wan die Declination, höhe und
Azimuth der Sonnen bekannt, des tages stunde zu finden.*

Wie der Sinus der erfüllung von der Declination /
Gegen den Sinum der erfüllung von der höhe;
Also ist der Sinus des Azimuths von Mittag ab /
Gegen den Sinum der weite von Mittag ab.

Diese Frage ist sehr nützlich die stunden zu finden / noch leichter
auf folgende weise. Wan man hat eine Horizontal Mittags-linse
die gleich gezogen ist / oder einen guten Magnat-stein / denn so
man mit dem schatten eines dünnen fadens den Azimuthalen winc-
kel in acht hat / ihr eben selbigem augenblick / da die höhe wird beobach-
tet / kan man auch die beehrte stunde durch eine proportion finden.

Die XIV Aufgabe. *Wan des Poli höhe, die Declinat. und
der Sonnen erhöbung bekannt, des tages stunde zu finden.*

Man thue diese drey beysammen / die erfüllung des Poli erhö-
bung / die weite der Sonnen von dem Polo ab / und die erfüllung
der

der Sonnen höhe / beyammen und auß der halben Summe derselben / die erfüllung des Pold höhe / und die weite der Sonnen / von dem Polo abgezogen / damit man den unterschied bekomme / und alsdan wird seyn.

1. Wieder Sinus der erfüllung von des Pold höhe /
Gegen den Sinum von einem des gefundenen unterschieds ;
Also ist der Sinus des andern gefundenen unterschieds /
Gegen den vierden Sinum.
2. Wie der Sinus der Sonnen weite von dem Polo /
Gegen den ganzen Sinum ;
Also ist der vierde erfundene Sinus ,
Gegen den siebenden Sinum.

Man setze den Logarithmum von dem ganzen Sinu zu dem Logarithmo des siebenden Sinus , die helfte der Summe wird der Logarithmus des Sinus Bogen seyn/welcher verdoppelt und wieder in stunden gebracht / soll die weite von Mittag ab geben.

Oder thue die Arithmetische erfüllungen der Logarithmen des Sinus der erfüllung des Pold höhe / und des Sinus der Sonnen weite von dem Polo zu dem Logarithmo der Sinuum der gefundenen unterschieden / die helfte der Summe wird der Logarithmus des Sinus Bogen seyn / welcher verdoppelt und in stunden versetzt / wird die weite von Mittag ab dar thun.

Es komt diese Frage sehr oft in der übung vor / und wird durch die 6te Aufgabe des fünfften Capittels von den krum-winkelichten Drey-cken auffgelöst / dan in der Drey-cken A B C werden diese 3 seiten fůrgestellt.

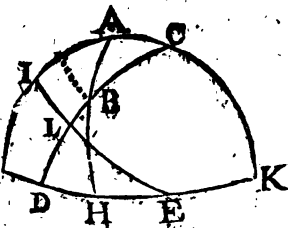
C der Polus.

B die Sonne.

AC die erfüll. der breite CK.

AB die erfüll. der höhe BH.

BC die weite der Sonnen vom Polo / welche erkant wird durch zu thun und M abnehmen von der bekanten Declinat. von 90 gr.



Der begehrte winkel ist

ACB oder die weite der Sonnen B, von Mittage I A, dessen abmessung ist der Equinoctial-bogen IL, welcher muß in Stunden mit theilung durch 15 gebracht werden.

Aber diese Frags wird leichter aufgelöst durch die letzte unterrichtung nemlich / durch die Arithmetische erfüllungen / als durch die andern werke: Deren artz (am 28 und 19 seiten) klärtlich ist beschrieben worden / auch am 14 und 15 erkläret / was die Arithmetische erfüllung sey.

Wan die höhe des Hölz / die erhöhung und Declination eines Sterns bekant / die nacht-stunde zu finden.

Man verfare eben wie mit der Sonnen / so wird man die weite des Sterns von Mittage haben / welche von der rechten erhöhung (so er gegen morgen hat in acht genommen) muß abgezogen / oder so man gegen abend es gerichtet hat / zugethan werden. Und wird die rechte erhöhung von der mitteu des Himmels erhalten werden / auß welcher so die rechte erhöhung der Sonnen abgezogen wird / muß dessen weite vom verschluckenen Mittag übrig bleiben. Welche so sie in die zeit verkehret die begehrte stunde geben wird. Man beobachte aber wan die rechte erhöhung der Sonnen grösser als die erhöhung von dem Mittag des Himmels gefunden wird / daß man muß 360 graden dabey fügen / damit dieselbe davon gezogen werden kan / und also die weite der Sonnen von dem verwichenen Mittag gefunden wird / welches die begehrte stunde ist / so sie in der zeit (in dem man 15 graden für ein stunde nimt) verstell wird.

Wan

Wan der Sonnen arth / und des Polerhöhung bekannt / die Stunde wan der tag ab und zu ulmt zu finden.

Wellsn gemeintlich des tages an brechen durch die zeit wan die Sonne noch unter der erden ist biß zu 18 graden bestimmt wird / ist es gewiß daß dieselbe erfordert wird umb ab zu nehmen von 18 hoch biß zu dem Horizont / so es thut von dem Horizont biß 18 graden unter demselben / welches ist der untergang zu abends / und in gleichen des morgens frühe wieder her vor zu gehen.

Also daß wan man hat die stunde / der vorhergesagten erhöhung / und weiß ihren auff und niedergang durch die neunde Aufgabe soll ihr unterschied die länge der schimmerung seyn / welche so man sie zu dem auff und niedergang thut / wird man den anfang und nähe des tages bekommen.

Die XV Aufgabe. *Wan die Declination der Sonnen und des Poli höhe bekannt, den Azimuth der Sonnen umb 6 uhren zu finden.*

Wie der ganze Sinus,

• Gegen den Sinum der erfüllung des Poli erhöhung;

Also ist der Tangens der Sonnen Declination /

• Gegen den Tangentem von dem Azimuth der Sonnen von auff und niedergang nach Norden zu.

Der Azimuth der Sonnen umb die 6ste stunde / ist der Azimuthalliche winkel der Sonnen zu 6 uhren / welcher folgendes gefunden wird / als in dem Nordischen zeichen von V & II, und dergleichen.

Diese Frage kan dienen die rechnung der Azimuthalischen Tafeln zu verkürzen / wan es umb die 6ste stunde ist die ebenmachung der andern stunden ist länger / als man auß folgender Frage sehen kan.

Die XVI Aufgabe. *Wan die erhöhung des Poli Declination, und der Sonnen höhe bekannt, dessen Azimuth zu finden.*

Man füge diese 3 bey sammen / die erfüllung des Poli höhe / die weite der Sonnen von dem Polo / und die erfüllung der Sonnen höhe /

höhe / auß der helffte der Summe werde die erfüllung des Poli
höhe und die erfüllung der Sonnen erhöhung gezogen / damit de-
ren unterschied kan erhalten werden ; als dan wird seyn.

1. Wie der Sinus der erfüllung des Poli höhe /
Gegen den Sinum eines jeglichen gefundenen unterschieds ;
Also ist der Sinus des andern unterschieds /
Gegen den vierden Sinum.
2. Wie die erfüllung der Sonnen höhe /
Gegen den ganzen Sinum ;
Also ist der erfundene vierde Sinus ,
Gegen den siebenden Sinum.

Man setze den Logarithmum des ganzen Sinus zu dem Lo-
garithmo des siebenden Sinus, die helffte derselben Summe soll
seyn der Logarithmus des Sinus von dem halben begehrten Azi-
muth.

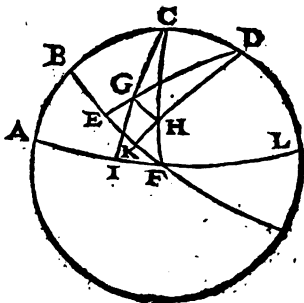
Oder man thue die Arithmetische erfüllungen des Logarithmi
des Sinus der erfüllung von des Poli höhe / und den Sinum der er-
füllung der Sonnen höhe zu dem Logarithmo der Sinuum der
gefundenen unterschieden / die helffte der Summen wird der Lo-
garithmus der Sinus des halben begehrten Azimuths seyn.

Diese Frage wird aufgelöset wie die 14de durch die 6te Aufga-
be der rund-krumwinklichten Drey-cken. Es seyn fürgegeben
3 seiten der Drey-cken ABC , in der Figur (pag. 38.) dan wan der
winkel CAB gefunden ist / wird dessen erfüllung $B'AI$ oder
 HAM , der begehrte Azimuth von Mittag bis zu dem Stern
seyn.

Sehr nützlich scheint diese Frage für die Sonnen uhren / und
veränderung des Magnätssteins zu seyn. Denn so man wohl der
Sonnen höhe in acht nimbt auff dem Horizontallschen eben / kan
man des kleinen wäg-rechten fadens schatten sehen : darnach wan
der Azimuthallsche winkel durch rechnen erfunden ist / und auff
denselben eben gebracht / wird man die Mittags oder Morgen-linie
haben / (wie man die erfüllung des winkels CAB eben 180 gr.
oder 90 gr. nehmen wird / durch welcher eins die veränderung des
Magnätssteins gefunden wird.

Die XVII Aufgabe. *Wan man so wol beytag als bey nacht, die beyde höben der Sonnen oder eines Sterns in acht genommen hat (deren Declination bekant wird) wie auch der selben Azimuthalische unterscheiden; die erhöhung des Poli, und deren Azimuth zu finden.*

ABCD ist der Mittag.
 C der Zenith. D der Polus.
 BEF der Aequinoctial.
 AIL der Horizont.
 Gund H die Son oder Stern.
 GE und HK deren Declination.
 GI und HF deren höhe.
 IF der Azimuthalische unterschied,



Es wird die erhöhung des Poli DL und der Bogen des Horizontis LF, oder AI, oder AF gesucht.

Wessn in der Drey-ecken GCH, zwo seiten GC und CH, die erfüllungen GI und HF, wie auch der winkel GCH, (welcher ist der Bogen IF) bekant seyn/ werden auch der Bogen GH, und der winkel GHC erkant.

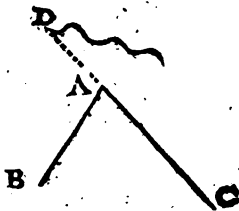
In der Drey-ecken GDH aber, wan die seiten GD und HD gegeben seyn (welche seyn erfüllungen der Declination GE und GK) wie auch GH, wird zu gleich der winkel CHD bekant.

So nun von demselben GHC abgezogen wird/ wird der winkel CHD übrig bleiben/ und deswegen in der Drey-ecken CHD, wan die beyde seiten CH und DH, und der winkel welchen sie in sich begreifen bekant seyn/ wird die seite CD auch bekant/ deren erfüllung DL ist des Poli erhöhung: Gleich auch der winkel DCH, welcher ist der Bogen des Horizontis FL, dessen erfüllung AF ist der Bogen des winkels der Mittags-linien und der Azimuth des in acht geachten Sterns in H, so aber einzig und allein FL für die erfüllung von 90 gr. genommen wird/ würde der Azimuth der Nordlich oder Sudlich ist/ für die Ost-linie gehalten werden/ nach dem sie grösser oder kleiner als 90 gr. were.

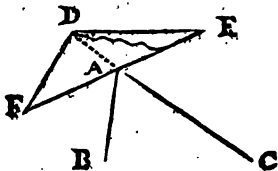
Diese Frage kan sehr leicht aufgelöset werden durch hüffe des Zirckels auff der West-Kugel / wo selbst in der Azimuth und Almucantarath gezeichnet stehen / wann man dessen spitz (des geöffneten graden DH) auff die puncten HAG stelt / und mache man zwey durch-schnitt den zirckeln in dem punct D , welcher wird der Polus seyn / dessen höbe DL , und der Bogen FL , können gesehen werden.

Dessen nutzen ist sehr groß für die veränderung des Magnet-steyns / dan wann man mit der nadel einen winkel des vorgesagten Azimuths in acht hat / wird der winkel / welchen sie mit dem Meridiano macht / erkant. Wan er darnach erfunden ist / welches nimmermehr denn durch die weite oder durch die Mittags linie geschehen kan / welche auff der See nicht kan gefunden werden.

Sie ist auch bequäm zuden Sonne-egern / auff den Horizontalkchen ebenen / noch viel mehr aber auff allerley ebenen plätzen / in dem man 2 puncten in acht hat / des schattens BC , auß dem punct des stills D , von welcher einfaltung A , so man zwey linien zieht / AB , und AC , wird man den winkel oder den Azimuthalichen unterschied haben BAC , die länge eines jeden schattens AB und AC wie auch die höbe des stills AD , werden die höbe der Sonnen über das ebene geben / zu welcher zeit man solches in acht nimt.



Derowegen komte man zu dem ende dieses Fragens / durch welche der winkel der Mittags-linie des gemeldete ebenen plazes (welche des stills linie genant wird) und einer der beyden Azimuth AB oder AC , welche Mittags-linie wann sie gezogen folgend dem gesagten winkel / und über dieselbe FAE einen wagen rechten still AD gerichtet / wird der winkel ADE gemacht werden / als die erhöhung des Poli über das gemeldte eben / welche gefunden wird werden wie oben berührt.



Der punct E wird der wahrhaftige Polus oder mittel dieses ebenen Quadranten seyn / woraus / so man läßt eine wahre Mittagslinie gehen / und die Equinoctialstrahl DF gezogen wird / kan gar leicht der Quadrant vollensführt werden / und so wir begeben zu wissen die höhe des Poli orthi / die Declination des ebenen und dergleichen. Es ist aber verstand zu gebrauchen von nöthen / in dem man die Declination will beschreiben / wie auch die Inclinacion und andere umstände / so etwan ein oder andere seyn / folgens der regel des Sonne-zetgers / welches zu lange solte hier zu beschreiben fallen.

Die XVIII Aufgabe. *Wan die erhöbung des Poli, und die weite der Sonnen vom Mittage (welches die stunde ist) bekant, den Bogen des Horizonts zu finden, welcher zwischen dem Mittag und stündlichen Reise ligt.*

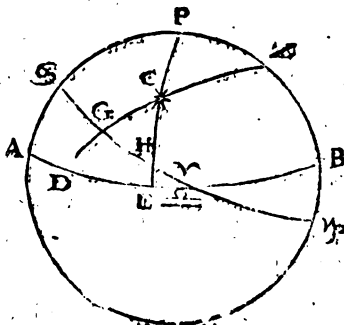
Wie der ganze Sinus,

Gegen den Sinum des Poli erhöbung;

Also ist der Tangens der weite der Sonnen vom Mittage / (gene. Gegen den Tangentem des stündlichen begehrten Horizontbo-

Die XIX Aufgabe. *Wan die länge und breite eine Fix-sterne bekant, dessen Declination zu finden.*

AEB ist der Equinoctialis. P dessen Polus. $\sigma \gamma \omega$ der Bodiacs. Z dessen Polus. APZ Cohurus Solstitialis. C der Stern so da fürgestellt wird. Dessen länge CV und breite GC bekant seyn; nun ist dessen Declination CE zu suchen. Der Bogen PZ wird erkant 23 gr. 31'. 30". (nemlich die weite eines Poli von dem andern) ZC



wird

wird erkant (welches ist die erfüllung GC) auch der winkel PZC, so von ihnen begriffen auch bekant ist geworden / welcher ist die weite des Sterns von dem bekanten Coluro, weiln der Bogen VG, dessen abmessung bekant ist / derowegen wird der Bogen PC erkant werden/ dessen erfüllung CE die gesuchte Declination ist.

Die XX Aufgabe. *Wan die länge und breite des Fixsterns bekant, dessen rechte auffsteigung zu suchen:*

In der fürbergehenden Figur ist der Äquinoczial-bogen VE; die rechte gesuchte auffsteigung. In der Drey-cken CPZ, wan die zwu seiten PZ, CZ, und der zwischen liegende winkel bekant/ wird der winkel CPZ erhalten / dessen abmessung der Bogen BE ist/ und dessen erfüllung über 90 gr. ist der gesuchte VE. Eben derselbe Bogen BE könnte wol geringer den 90 gr. seyn/ dennoch ist der Bogen VE, die erfüllung des winkels ZPC, bey 90 gr. der verständige wird das übrige sehen zu machen und verfärtigen wissen.

Den gebrauch der Sternens Declination ist das gefunden werde:

1. Die erhöhung des Poli durch deren größte höhe.
2. Die weite von Osten / und also die verändrung des Magnätssteins.
3. Man kan sie leichter auff das Astrolabium setzen.
4. Die durch-schnitte der gleich-linien über und unter dem Horizont.
5. Wie viel sie nahe oder fern vom Zenith weichen.
6. Welche alle zeit/ oder nimmer bey uns gesehen werden.

Der gebrauch dergleichen auffsteigungen ist damit erkant worden.

1. Die zeit welche sie vor oder nach der Sonnen gehen.
2. Wan sie zu dem Mittag kommen / damit man sie kan mercken.
3. Sie komen leichter auff dem Astrolabio als auff den Welt-kugeln.

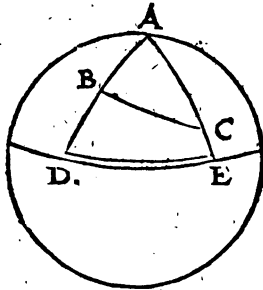
Endlich durch die Declination / die gleiche auffsteigung / und die höhe der Sternens wird die nacht-stunde erkant / wie vorher gemeldet worden.

Die Tabellen der auffsteigungen / Declinationum, Meditationum, der länge und breite der Sternens werden in Büchern von unterschiedlichen Authoren gefunden.

Die XXI Aufgabe. *Wan die länge und breite zweyer Sterne oder Städte gegeben, deren weite oder den Bogen des größern Zirckels, so unter denselbigem begriffen ist, zu finden.*

B D, sind Sternen oder Städte. A der Polus. B D und E C die gegebene breite. DE der unterschied der länge.

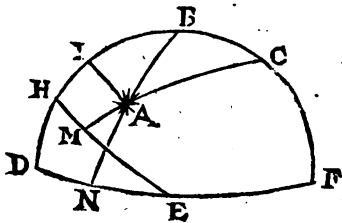
Derohalben in der Drey-ecken A B C, seyn die seiten A B und A C, auch der winckel A von denselben begriffen / bekant / der gemessen wird durch den Bogen D E, B C, soll auch mit bekant werden durch die 9. Aufgabe der krum-winkelichten Drey-ecken / pag. 30.



Die XXII Aufgabe, *Wan die Declination der Sonnen bekant, des Poli höbe, und den Azimutalischen winckel, durch welchen die Mittagslinie gefunden wird, die stunde zu finden.*

D B F ist der Mittag. B der Zenith. C der Polus. D F der Horizont H E Æquinoctialis. I A die Sonne. A gleichlinie.

Wan die Declination A M bekant ist / wird auch der Bogen A C mit bekant / dessen erfüllung ist B C die weite von dem Polo gegeben / der winckel D B N Azimutalisch / ist durch Fickachten gegeben worden.



Derohalben in der Drey-ecken A B C seyn die zwo seiten A C, C B, und der winckel C B A. der erfüllung vom dem winckel D E N gegeben

gegeben worden, und soll man den Winkel BCA finden, welcher ist der Bogen IA oder HM ; welcher wann er getheilet ist durch 27 gr. wird der Quotient die Zahl der gesuchten Stunde seyn.

Die XXIII Aufgabe. *Wie die Höhe und Declination der Sonnen mit dem Azimuthalischen Winkel fürgegeben, die Stunde und Erhöhung des Poli zu suchen.*

Der Bogen BA , die Erfüllung der Sonnen Höhe AN ist gegeben worden, als mit AC , wie auch der Azimuthal-Winkel; derowegen / Wie der Sinus des Bogens /

gegen den Sinum des Winkels

AC

ABC

Also ist der Sinus von

AB

gegen den Sinum des Winkels ACB , welcher ist der Bogen IA , oder auch HM , für die begehrte Stunde.

Und damit die Erhöhung des Poli gefunden werde / besetze die Aufgabe umb zu finden die Seite BC , als die Erfüllung von der Erhöhung des Poli.

Fragen von Interessen.

I. 1264 Gulden über 8 Jahren zu bezahlen. Wie viel die gelten werden / so sie habe bezahlt werden: Wan man 4 von 100 abschlägt des Jahres / auch welchen Gewinn?

Man nehme den Unterscheid der Logarithmen von 104 und 100:

104 Log. 2. 0170333

100 Log. 2. 0000000

Logar.⁹

unterscheid 0. 0170333 vermehrt mit 8 kome

0. 1362664

Die abgezogen von dem Logarithmo von 1264

3. 1017471

Kommt der Logarithmus von

$923\frac{294}{1000}$ 2. 9654807

II. $923\frac{294}{1000}$ (11 fl. 14 pfenn.) seyn 8 Jahren auff Interest für einige Waisen gegen 4 zum 100 des Jahres auffgelegt: wie viel ist die Haupt-Summe / mit welchem Gewinn am Ende der Zeit?

Man nehme den Unterscheid von den Logarithmen von 104 und 100 / und vermehre diese mit 8 / und thue die zu dem Logarithmo von 923. (11 fl. 14 pfenn.) oder $923\frac{294}{1000}$: wie folget:

Der Logar. von $923\frac{294}{1000}$

2. 9654807

Der Unterscheid 0. 0170333 vermehrt mit 8 wird

c. 1362664

Kommt der Logar. von 1264 die begehrte Summe

3. 1017471

III. 3600

III. 3600 Gulden für ein gekauft Haus zu bezahlen / mit 200
 Fl. des Jahres / wie viel sind dieselben Jahr wehrt zu zahlen / man
 rechne den Interest 4 zu 100.

Man suche erstlich ein Capital welches jährlich 200 Fl. gibt / fol-
 gens der Regel De Tri also:

| | | | |
|--|------------|----|---------|
| 4 | der Logar. | 0. | 6020600 |
| 100 | der Logar. | 2. | 2000000 |
| 200 | der Logar. | 2. | 3010300 |
| Kommt der Logar. von 5000 | | | |
| | | 3. | 6989700 |
| Der gefundene Logarithmus | | | |
| | | 3. | 6989700 |
| unterscheid der Log. von 100 und 104 mit 18 vermehrt | | | |
| | | 0. | 3065994 |
| Kommt der Log. von $10129\frac{166}{1000}$ Capital und Intress | | | |
| | | 4. | 0055694 |
| Drauß ziehe das Capital 5000. | | | |
| | | 3. | 7100332 |
| Restirt das Intresse $5129\frac{166}{1000}$ der Logar. ist | | | |
| | | 0. | 3055994 |
| Hier von gethan der vermehrte unterschied | | | |
| | | 3. | 4034338 |
| Kommt der Log. der begehrten Summen $2531\frac{332}{1000}$ | | | |
| oder 2531 Flor. 16 st. 12 pfen. | | | |

IV. 104 Flor. zu bezahlen über 9 Monaten / wie viel kosten
 die an bahren gegen 4 zu 100 ?

Man nehme den unterschied der Logar. von 100 und 104.

| | | |
|---|----|---------|
| Der unterschied für ein Jahr | 0. | 0170333 |
| Der unterschied vor 9 Monaten | 0. | 0127749 |
| Die abgezogen von dem Logar. von 104 | 2. | 0170333 |
| Kommt der Logar. von $100\frac{999}{1000}$ oder Fl. 19 st. 11 pf. | 2. | 0042584 |

V. Wie viel seyn werth 100 Fl. zum ende von 9 Monaten
 gegen 4 zu 100 / Intrest auff Intresse ?

| | | |
|--|----|---------|
| Man suche den unterschied von dem Logar. für 9 Monaten / als ist
der vorbergehenden Frage / welche ist befunden | 0. | 0127750 |
| Man thue dabey den Logarithmus von 100 | 2. | 0000000 |
| Die Summe des Logarithmi von $102\frac{999}{1000}$ | 2. | 0127750 |
| oder 102 Flor. 19 st. 14 pfen. | | |

wird erkant (welches ist die erfüllung GC) auch der winkel PZC, so von ihnen begriffen auch bekant ist geworden / welcher ist die weite des Sterns von dem bekanten Coluro, weiln der Bogen VG, dessen abmessung bekant ist / derowegen wird der Bogen PC erkant werden/ dessen erfüllung CE die gesuchte Declination ist.

Die XX Aufgabe. *Wan die länge und breite des Fixsterns bekant, dessen rechte auffsteigung zu suchen:*

In der fürhergehenden Figur ist der Equinoctial-bogen VE; die rechte gesuchte auffsteigung. In der Decy-ersten CPZ, wan die zwö seiten PZ, CZ, und der zwischen liegende winkel bekant/ wird der winkel CPZ erhalten / dessen abmessung der Bogen BE ist/ und dessen erfüllung über 90 gr. ist der gesuchte VE. Eben derselbe Bogen BE könnte wol geringer den 90 gr. seyn/ dennoch ist der Bogen VE, die erfüllung des winkels ZPC, bey 90 gr. der verständige wird das übrige sehen zu machen und verfertigen wissen.

Den gebrauch der Sternen Declination ist das gefunden werde:

1. Die erhöhung des Poli durch deren größte höhe.
2. Die weite von Osten / und also die verändrung des Magnäts steins.
3. Man kan sie leichter auff das Astrolabium setzen.
4. Die durch-schnitte der gleich-linien über und unter dem Horizont.
5. Wie viel sie nahe oder fern vom Zenith weichen.
6. Welche alle zeit/ oder nimmer bey uns gesehen werden.

Der gebrauch dergleichen auffsteigungen ist damit erkant worden.

1. Die zeit welche sie vor oder nach der Sonnen gehen.
2. Wan sie zu dem Mittag kommen / damit man sie kan mercken.
3. Sie komen leichter auff dem Astrolabio als auff den Welt-kugeln.

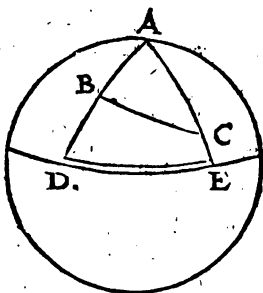
Endlich durch die Declination / die gleiche auffsteigung / und die höhe der Sternen wird die nacht-stunde erkant / wie vorher gemeldet worden.

Die Tabellen der auffsteigungen / Declinationum, Meditationum, der länge und breite der Sternen werden in Büchern von unterschiedlichen Authoren gefunden.

Die XXI Aufgabe. *Wan die länge und breite zweyer Sterne oder Städte gegeben, deren weite oder den Bogen des größern Zirckels, so unter denselbigem begriffen ist, zu finden.*

B D, sind Sternen oder Städte. A der Polus. B D und E C die gegebene breite. D E der unterschied der länge.

Derohalben in der Drey-ecken A B C, seyn die seiten A B und A C, auch der winckel A von denselben begriffen / bekant / der gemessen wird durch den Bogen D E, B C, soll auch mit bekant werden durch die 9 Aufgabe der krum-winkelichten Drey-ecken / pag. 30.



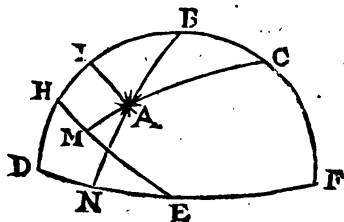
Die XXII Aufgabe, *Wan die Declination der Sonnen bekant, des Poli höhe, und den Azimutalischen winckel, durch welchen die Mittags-linie gefunden wird, die stunde zu finden.*

DBF ist der Mittag. B der Zenith. C der Polus. DF der Horizont H E Äquinoctialis. I A die Sonne. A gleich-linie.

Wan die Declination A M bekant ist / wird auch der Bogen

A C mit bekant / dessen erfüllung ist B C die weite von dem Polo gegeben / der winckel D B N Azimutalisch / ist durch kreck-achten gegeben worden.

Derohalben in der Drey-ecken A B C seyn die zwo seiten A C, C B, und der winckel C B A. der erfüllung vom dem winckel D E N gegeben



gegeben worden / und soll man den winckel BCA finden / welcher ist der Bogen IA oder HM ; welcher man et gegeben ist durch 27 gr. wird der Quotient die zahl der gesuchten stunde seyn.

Die XXIII Aufgabe. *Wie die höhe und Declination der Sonnen mit dem Azimuthalischen winckel fürgegeben, die stunde und erhöhung des Poli zu suchen.*

Der Bogen BA , die erfüllung der Sonnen höhe AN ist gegeben worden / als mit AC , wie auch der Azimuthal- winckel; derothalben /

Wie der Sinus des Bogens /

AC

Gegen den Sinum des winckels

ABC

Also ist der Sinus von

AB

Gegen den Sinum des winckels ACB , welcher ist der Bogen IA , oder auch HM , für die begehrte stunde.

Und damit die erhöhung des Poli gefunden werde / besche die Aufgabe umb zu finden die seite BC , als die erfüllung von der erhöhung des Poli.

Fragen von Interessen.

I. 1264 gulden über 8 jahren zu bezahlen. Wie viel die gelten werden / so sie habe bezahlt werden: Wan man 4 von 100 abschlägt des jahrs / auch welchen gewin?

Man nehm den unterschied der Logarithmen von 104 und 100.

104 Log. 2. 0170333

100 Log. 2. 0000000

Logar.⁹

unterscheid 0. 0170333 vermehrt mit 8 komt

0. 1362664

Die abgezogen von dem Logarithmo von 1264

3. 1017471

Kommt der Logarithmus von

$923\frac{124}{1000}$ 2. 9654807

II. $923\frac{124}{1000}$ (11 st. 14 pfenn.) seyn 8 jahren auff Interest für einige Waisen gegen 4 zum 100 des jahrs auffgelegt: wie viel ist die haupt-summe / mit welchem gewin am ende der zeit?

Man nehm den unterschied von den Logarithmen von 104 und 100 / und vermehre diese mit 8 / und thue die zu dem Logarithmo von 923. (11 st. 14 pfenn.) oder $923\frac{124}{1000}$: wie folget:

Der Logar. von $923\frac{124}{1000}$

2. 9654807

Der unterschied 0. 0170333 vermehrt mit 8 wird

c. 1362664

Kommt der Logar. von 1264 die begehrte Summe

3. 1017471

III. 3600

Fragen von Interessen.

47

III. 3600 Gulden für ein gekaufts Haus zu bezahlen / mit 200 Fl. des Jahres / wie viel sind dieselben wahr wehrt zu zahlen / man rechne den Interest 4 zu 100.

Man suche erstlich ein Capital welches jährlich 200 Fl. gibt / folgens der Regel De Tri also:

| | | | | |
|---|---------------------------|------------|----|---------|
| { | 4 | der Logar. | 0. | 6020600 |
| | 100 | der Logar. | 2. | 2000000 |
| | 200 | der Logar. | 2. | 3010300 |
| | Kommt der Logar. von 5000 | | | |
| | | | 3. | 6989700 |

Der gefundene Logarithmus
unterscheid der Log. von 100 und 104 mit 18 vermehrt

Kommt der Log. von 10129 $\frac{001}{1000}$ Capital und Interest
Drauß ziehe das Capital 5000.

Restet das Interest 5129 $\frac{156}{1000}$ der Logar. ist
Hier von gethan der vermehrte unterschied

Kommt der Log. der begehrten Summen 2531 $\frac{232}{1000}$
oder 2531 Flor. 16 st. 12 pfen.

IV. 104 Flor. zu bezahlen über 9 Monaten / wie viel kosten die an bahren gegen 4 zu 100?

Man nehme den unterschied der Logar. von 100 und 104:

| | | |
|--|----|---------|
| Der unterschied für ein Jahr | 0. | 0170333 |
| Der unterschied vor 9 Monaten | 0. | 0127749 |
| Die abgezogen von dem Logar. von 104 | 2. | 0170333 |
| Kommt der Logar. von 100 $\frac{001}{1000}$ oder Fl. 19 st. 11 pf. | 2. | 0042584 |

V. Wie viel seyn werth 100 Fl. zum ende von 9 Monaten gegen 4 zu 100 / Interest auff Interest?

| | | |
|---|----|---------|
| Man suche den unterschied von dem Logar. für 9 Monaten / als ist der vorbergehenden Frage / welche ist befunden | 0. | 0127750 |
| Man thue dabey den Logarithmum von 100 | 2. | 0000000 |
| Die Summe des Logarithmi von 102 $\frac{001}{1000}$ oder 102 Flor. 19 st. 14 pfen. | 2. | 0127750 |

VI. Cß

VI. Es ist mir einer schuldig 123 pfund Gläms/und hat die pfen. 7
 fabr 5 Monath und 9 tag bey sich still behalten; Ich begehre zu
 wissen, wie viel Er schuldig ist für Capital und Intressen gegen
 6 zu 100 zu bezahlen/ in dem Jahr gewin auff gewin.

| | |
|---|--------------------------------------|
| Der Log. von 106 ist | 2. 0253059 |
| Der Log. von 100 ist | 2. 0000000 |
| der unterschied eines jahres | 0. 0253059 gebracht in 7. 0. 1771413 |
| der unters. eines Monathes | 0. 0021088 gebracht in 5. 0. 0105440 |
| der unterschied eines tages | 0. 0000693 gebracht in 9. 0. 0006237 |
| Der Logarithmus von dem Capital 123 ist | 2. 0899057 |
| Kommt der Logar. von 189 $\frac{67}{100}$ pfunden | 2. 2782147 |
| oder 189 pfund Glämsch 15 schill. 4 grooten. | |

VII. Ich hab ein hauß gekauft für 4000 Fl. zu bezahlen in 4 zet-
 ten/ zu wissen alle 6 Monathen 1000 Flor. daß; jede 6 Mo-
 natthen/ wie hoch soll solches kommen in bahrem gelde/ gegen 6
 zum 100 im jahr.

Man suche erstlich die folgende manier von der dritten Frage/ ein
 Capital welches alle 6 Monathen macht 1000 Flor. also:

| | |
|--|-------------------|
| 1318 $\frac{1}{100}$ oder $\frac{21}{100}$ | Logar. 0. 4945000 |
| 100 | Logar. 2. 0000000 |
| 1000 | Logar. 3. 0000000 |
| Kommt der Logar. des Capitals 32000 Flor. | 4. 5051500 |

Man suche hernach den unterschied des Logarithmi von 100
 und von 103 $\frac{12}{100}$ also:

| | |
|----------------------|----------------------------|
| 103 $\frac{12}{100}$ | der Logar. 2. 0133639 |
| 100 | der Logar. 2. 0000000 |
| | der unterschied 0. 0133639 |

| | |
|---|---------------------|
| Solches vermehrt mit 4 Komt | 0. 0534556 |
| Kommt der Log. vom Cap. und Intr. 36191 $\frac{1}{10}$ | 4. 5586056 |
| Hier von abgezogen das Capital 32000 | |
| Wleibt übrig das Intresse 4191 $\frac{1}{10}$ | Log. ist 3. 6223695 |
| Hier von abgezogen den gefundenn unterschied | 0. 0534556 |
| Wleibt übrig der Logar. der Summe 3706 $\frac{27}{100}$ | 3. 5689139 |
| oder 3706 Flor. 1 st. 6 pfenn. | |

CANONES
S I N U U M,
T A N G E N T I U M,
S E C A N T I U M:
E T
L O G A R I T H M O R U M
P R O
S I N U B U S
E T
T A N G E N T I B U S.

Grad. 0

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|--------|-----------|-----------|------------|
| o | o | 100000.00 | o | o |
| 29.09 | 29.09 | 100000.00 | 6.4637261 | 6.4637261 |
| 58.18 | 58.18 | 100000.02 | 6.7647561 | 6.7647562 |
| 87.27 | 87.27 | 100000.04 | 6.9408473 | 6.9408475 |
| 116.36 | 116.36 | 100000.07 | 7.0657860 | 7.0657863 |
| 145.44 | 145.44 | 100000.11 | 7.1626960 | 7.1626964 |
| 174.53 | 174.53 | 100000.16 | 7.2418771 | 7.2418778 |
| 203.62 | 203.62 | 100000.21 | 7.3088239 | 7.3088248 |
| 232.71 | 232.71 | 100000.27 | 7.3668157 | 7.3668169 |
| 261.80 | 261.80 | 100000.34 | 7.4179681 | 7.4179696 |
| 290.89 | 290.89 | 100000.42 | 7.4637255 | 7.4637273 |
| 319.98 | 319.98 | 100000.51 | 7.5051181 | 7.5051203 |
| 349.06 | 349.07 | 100000.61 | 7.5429065 | 7.5429091 |
| 378.15 | 378.16 | 100000.72 | 7.5776684 | 7.5776715 |
| 407.24 | 407.25 | 100000.83 | 7.6098530 | 7.6098566 |
| 436.33 | 436.33 | 100000.95 | 7.6398160 | 7.6398201 |
| 465.42 | 465.42 | 100001.08 | 7.6678445 | 7.6678492 |
| 494.51 | 494.51 | 100001.22 | 7.6941733 | 7.6941786 |
| 523.60 | 523.60 | 100001.37 | 7.7189966 | 7.7190026 |
| 552.68 | 552.69 | 100001.53 | 7.7424775 | 7.7424841 |
| 581.77 | 581.78 | 100001.70 | 7.7647537 | 7.7647610 |
| 610.86 | 610.87 | 100001.87 | 7.7859427 | 7.7859508 |
| 639.95 | 639.96 | 100002.05 | 7.8061458 | 7.8061547 |
| 669.04 | 669.05 | 100002.24 | 7.8254507 | 7.8254604 |
| 698.13 | 698.14 | 100002.44 | 7.8439338 | 7.8439444 |
| 727.21 | 727.23 | 100002.65 | 7.8616623 | 7.8616738 |
| 756.30 | 756.32 | 100002.86 | 7.8786953 | 7.8787077 |
| 785.39 | 785.41 | 100003.08 | 7.8950854 | 7.8950988 |
| 814.48 | 814.50 | 100003.31 | 7.9108793 | 7.9108938 |
| 843.57 | 843.60 | 100003.55 | 7.9261190 | 7.9261344 |
| 872.65 | 872.69 | 100003.80 | 7.9408419 | 7.9408584 |

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| Minut | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|-------|-----------|------------|------------|------------|------------|
| | 100000000 | Infinitt. | Infinitt. | 10.0000000 | Infinitt. |
| 60 | 100000000 | | | 10.0000000 | |
| 59 | 99999.99 | 343774667. | 343774682. | 9.9999999 | 13.5362735 |
| 58 | 99999.98 | 171887319. | 171887348. | 9.9999999 | 13.2352438 |
| 57 | 99999.96 | 114591530. | 114591574. | 9.9999998 | 13.0591525 |
| 56 | 99999.93 | 85943630. | 85943689. | 9.9999997 | 12.9342137 |
| 55 | 99999.89 | 68754887. | 68754960. | 9.9999995 | 12.8373036 |
| 54 | 99999.84 | 57295721. | 57295809. | 9.9999993 | 12.7581222 |
| 53 | 99999.79 | 49110600. | 49110702. | 9.9999991 | 12.6911752 |
| 52 | 99999.73 | 42971757. | 42971873. | 9.9999988 | 12.6331831 |
| 51 | 99999.66 | 38197099. | 38197230. | 9.9999985 | 12.5820304 |
| 50 | 99999.58 | 34377371. | 34377516. | 9.9999982 | 12.5362727 |
| 49 | 99999.49 | 31252137. | 31252297. | 9.9999978 | 12.4948797 |
| 48 | 99999.39 | 28647773. | 28647948. | 9.9999974 | 12.4570909 |
| 47 | 99999.28 | 26444080. | 26444269. | 9.9999969 | 12.4223285 |
| 46 | 99999.17 | 24555198. | 24555402. | 9.9999964 | 12.3901434 |
| 45 | 99999.05 | 22918166. | 22918385. | 9.9999959 | 12.3601799 |
| 44 | 99998.92 | 21485762. | 21485995. | 9.9999953 | 12.3321508 |
| 43 | 99998.78 | 20221875. | 20222122. | 9.9999947 | 12.3058214 |
| 42 | 99998.63 | 19098419. | 19098680. | 9.9999940 | 12.2809974 |
| 41 | 99998.47 | 18093220. | 18093496. | 9.9999934 | 12.2575159 |
| 40 | 99998.30 | 17188540. | 17188831. | 9.9999927 | 12.2352390 |
| 39 | 99998.13 | 16370019. | 16370325. | 9.9999919 | 12.2140492 |
| 38 | 99997.95 | 15625908. | 15626228. | 9.9999911 | 12.1938453 |
| 37 | 99997.76 | 14946502. | 14946837. | 9.9999903 | 12.1745396 |
| 36 | 99997.66 | 14323712. | 14324061. | 9.9999894 | 12.1560556 |
| 35 | 99997.35 | 13750745. | 13751108. | 9.9999885 | 12.1383262 |
| 34 | 99997.13 | 13221851. | 13222229. | 9.9999876 | 12.1212923 |
| 33 | 99996.91 | 12732134. | 12732526. | 9.9999866 | 12.1049012 |
| 32 | 99996.68 | 12277396. | 12277803. | 9.9999850 | 12.0891062 |
| 31 | 99996.44 | 11854018. | 11854440. | 9.9999845 | 12.0738656 |
| 30 | 99996.19 | 11458865. | 11459301. | 9.9999835 | 12.0591416 |

Grad. 0

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|---------|---------|-----------|-----------|------------|
| 30 | 872.65 | 872.69 | 100003.80 | 7.9408419 | 7.9408584 |
| 31 | 901.74 | 901.78 | 100004.06 | 7.9550819 | 7.9550996 |
| 32 | 930.83 | 930.87 | 100004.33 | 7.9688869 | 7.9688886 |
| 33 | 959.92 | 959.96 | 100004.61 | 7.9822334 | 7.9822534 |
| 34 | 989.00 | 989.05 | 100004.89 | 7.9951980 | 7.9952192 |
| 35 | 1018.09 | 1018.14 | 100005.18 | 8.0077867 | 8.0078092 |
| 36 | 1047.18 | 1047.24 | 100005.48 | 8.0200207 | 8.0200445 |
| 37 | 1076.27 | 1076.33 | 100005.79 | 8.0319195 | 8.0319446 |
| 38 | 1105.35 | 1105.42 | 100006.11 | 8.0435009 | 8.0435274 |
| 39 | 1134.44 | 1134.51 | 100006.44 | 8.0547814 | 8.0548094 |
| 40 | 1163.53 | 1163.61 | 100006.77 | 8.0657763 | 8.0658057 |
| 41 | 1192.61 | 1192.70 | 100007.11 | 8.0764997 | 8.0765306 |
| 42 | 1221.70 | 1221.79 | 100007.46 | 8.0869646 | 8.0869970 |
| 43 | 1250.79 | 1250.88 | 100007.82 | 8.0971832 | 8.0972172 |
| 44 | 1279.87 | 1279.98 | 100004.19 | 8.1071669 | 8.1072025 |
| 45 | 1308.96 | 1309.07 | 100008.57 | 8.1169262 | 8.1169634 |
| 46 | 1338.05 | 1338.17 | 100008.96 | 8.1264710 | 8.1265099 |
| 47 | 1367.13 | 1367.26 | 100009.35 | 8.1358104 | 8.1358510 |
| 48 | 1396.22 | 1396.35 | 100009.75 | 8.1449532 | 8.1449956 |
| 49 | 1425.30 | 1425.45 | 100010.16 | 8.1539075 | 8.1539516 |
| 50 | 1454.39 | 1454.54 | 100010.58 | 8.1626808 | 8.1627267 |
| 51 | 1483.48 | 1483.64 | 100011.01 | 8.1712804 | 8.1713282 |
| 52 | 1512.56 | 1512.73 | 100011.45 | 8.1797129 | 8.1797626 |
| 53 | 1541.65 | 1541.83 | 100011.89 | 8.1879848 | 8.1880364 |
| 54 | 1570.73 | 1570.93 | 100012.34 | 8.1961020 | 8.1961556 |
| 55 | 1599.82 | 1600.02 | 100012.80 | 8.2040703 | 8.2041259 |
| 56 | 1628.90 | 1629.12 | 100013.27 | 8.2118949 | 8.2119526 |
| 57 | 1657.99 | 1658.21 | 100013.75 | 8.2195811 | 8.2196408 |
| 58 | 1687.07 | 1687.31 | 100014.24 | 8.2271335 | 8.2271953 |
| 59 | 1716.16 | 1716.41 | 100014.73 | 8.2345568 | 8.2346208 |
| 60 | 1745.24 | 1745.51 | 100015.23 | 8.2418553 | 8.2419215 |

89 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 30 | 99996.19 | 11458865.0 | 11459301.4 | 9.9999835 | 12.0591416 |
| 29 | 99995.93 | 11089205.1 | 11089656.0 | 9.9999823 | 12.0449094 |
| 28 | 99995.66 | 10742648.4 | 10743113.8 | 9.9999812 | 12.0311114 |
| 27 | 99995.39 | 10417094.5 | 10417574.5 | 9.9999800 | 12.0177466 |
| 26 | 99995.11 | 10110690.2 | 10111184.8 | 9.9999788 | 12.0047808 |
| 25 | 99994.82 | 9821794.3 | 9822303.3 | 9.9999775 | 11.9921908 |
| 24 | 99994.52 | 9548947.5 | 9549471.1 | 9.9999762 | 11.9799555 |
| 23 | 99994.21 | 9290848.7 | 9291386.9 | 9.9999748 | 11.9680554 |
| 22 | 99993.89 | 9046333.6 | 9046886.3 | 9.9999735 | 11.9564726 |
| 21 | 99993.56 | 8814357.2 | 8814924.4 | 9.9999721 | 11.9451906 |
| 20 | 99993.23 | 8593979.1 | 8524560.9 | 9.9999706 | 11.9341943 |
| 19 | 99992.89 | 8384350.7 | 8384947.0 | 9.9999691 | 11.9234694 |
| 18 | 99992.54 | 8184704.1 | 8185315.0 | 9.9999676 | 11.9130030 |
| 17 | 99992.18 | 7994343.0 | 7994968.4 | 9.9999660 | 11.9027828 |
| 16 | 99991.81 | 7812634.2 | 7813274.2 | 9.9999644 | 11.8927975 |
| 15 | 99991.43 | 7639000.9 | 7639655.4 | 9.9999628 | 11.8830366 |
| 14 | 99991.04 | 7472916.5 | 7473585.6 | 9.9999611 | 11.8734901 |
| 13 | 99990.65 | 7313899.1 | 7314582.7 | 9.9999594 | 11.8641490 |
| 12 | 99990.25 | 7161507.0 | 7162205.2 | 9.9999577 | 11.8550044 |
| 11 | 99989.84 | 7015334.6 | 7016047.4 | 9.9999559 | 11.8460484 |
| 10 | 99989.42 | 6875008.7 | 6875736.0 | 9.9999541 | 11.8372733 |
| 9 | 99988.99 | 6740185.4 | 6740927.2 | 9.9999522 | 11.8286718 |
| 8 | 99988.55 | 6601547.3 | 6611303.6 | 9.9999503 | 11.8202374 |
| 7 | 99988.11 | 6485800.8 | 6486571.6 | 9.9999484 | 11.8119636 |
| 6 | 99987.66 | 6365674.1 | 6366459.5 | 9.9999464 | 11.8038444 |
| 5 | 99987.20 | 6249915.4 | 6250715.3 | 9.9999444 | 11.7958741 |
| 4 | 99986.73 | 6138290.5 | 6139105.0 | 9.9999424 | 11.7880474 |
| 3 | 99986.25 | 6030582.0 | 6031411.0 | 9.9999403 | 11.7803592 |
| 2 | 99985.76 | 5926587.2 | 5927430.8 | 9.9999382 | 11.7728047 |
| 1 | 99985.27 | 5826117.4 | 5826975.5 | 9.9999360 | 11.7653792 |
| 0 | 99984.77 | 5728996.2 | 5729868.9 | 9.9999338 | 11.7580785 |

I Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---------|---------|-----------|-----------|------------|
| 1745.24 | 1745.51 | 100015.23 | 8.2418553 | 8.2419215 |
| 1774.32 | 1774.60 | 100015.74 | 8.2490332 | 8.2491015 |
| 1803.41 | 1803.70 | 100016.26 | 8.2560943 | 8.2561649 |
| 1832.49 | 1832.80 | 100016.79 | 8.2630424 | 8.2631153 |
| 1861.58 | 1861.90 | 100017.33 | 8.2698810 | 8.2699563 |
| 1890.66 | 1891.00 | 100017.88 | 8.2766146 | 8.2766912 |
| 1919.74 | 1920.10 | 100018.43 | 8.2832434 | 8.2833234 |
| 1948.83 | 1949.20 | 100018.99 | 8.2897734 | 8.2898559 |
| 1977.91 | 1978.30 | 100019.56 | 8.2962067 | 8.2962917 |
| 2006.99 | 2007.40 | 100020.14 | 8.3025460 | 8.3026335 |
| 2036.08 | 2036.50 | 100020.73 | 8.3087941 | 8.3088842 |
| 2065.16 | 2065.60 | 100021.33 | 8.3149536 | 8.3150462 |
| 2094.24 | 2094.70 | 100021.94 | 8.3210269 | 8.3211221 |
| 2123.32 | 2123.80 | 100022.55 | 8.3270163 | 8.3271143 |
| 2152.41 | 2152.91 | 100023.17 | 8.3329243 | 8.3330249 |
| 2181.49 | 2182.01 | 100023.80 | 8.3387529 | 8.3388563 |
| 2210.57 | 2211.11 | 100024.44 | 8.3445043 | 8.3446105 |
| 2239.65 | 2240.21 | 100025.09 | 8.3501805 | 8.3502895 |
| 2268.73 | 2269.32 | 100025.75 | 8.3557835 | 8.3558953 |
| 2297.81 | 2298.42 | 100026.41 | 8.3613150 | 8.3614297 |
| 2326.90 | 2327.53 | 100027.08 | 8.3667769 | 8.3668945 |
| 2355.98 | 2356.63 | 100027.76 | 8.3721710 | 8.3722915 |
| 2385.06 | 2385.74 | 100028.45 | 8.3774988 | 8.3776223 |
| 2414.14 | 2414.84 | 100029.15 | 8.3827620 | 8.3828886 |
| 2443.22 | 2443.95 | 100029.86 | 8.3879622 | 8.3880918 |
| 2472.30 | 2473.05 | 100030.58 | 8.3931008 | 8.3932336 |
| 2501.38 | 2502.16 | 100031.30 | 8.3981793 | 8.3983152 |
| 2530.46 | 2531.27 | 100032.03 | 8.4031990 | 8.4033381 |
| 2559.54 | 2560.38 | 100032.77 | 8.4081614 | 8.4083037 |
| 2588.62 | 2589.48 | 100033.52 | 8.4130676 | 8.4132132 |
| 2617.69 | 2618.59 | 100034.28 | 8.4179190 | 8.4180679 |

88 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 60 | 99984.77 | 5728996.16 | 5729868.85 | 9.9999338 | 11.7580785 |
| 59 | 99984.26 | 5635058.96 | 5635946.19 | 9.9999316 | 11.7508985 |
| 58 | 99983.74 | 5544151.67 | 5545053.45 | 9.9999294 | 11.7438351 |
| 57 | 99983.21 | 5456130.03 | 5457046.35 | 9.9999271 | 11.7368347 |
| 56 | 99982.67 | 5370858.75 | 5371789.62 | 9.9999247 | 11.7300437 |
| 55 | 99982.12 | 5288210.91 | 5289156.37 | 9.9999224 | 11.7233088 |
| 54 | 99981.57 | 5208067.26 | 5209027.22 | 9.9999200 | 11.7166766 |
| 53 | 99981.01 | 5130315.66 | 5131290.17 | 9.9999175 | 11.7101441 |
| 52 | 99980.44 | 5054850.59 | 5055839.65 | 9.9999150 | 11.7037083 |
| 51 | 99979.86 | 4981572.64 | 4982576.23 | 9.9999125 | 11.6973665 |
| 50 | 99979.27 | 4910388.06 | 4911406.20 | 9.9999100 | 11.6911158 |
| 49 | 99978.67 | 4841208.41 | 4842241.10 | 9.9999074 | 11.6849538 |
| 48 | 99978.06 | 4773950.14 | 4774997.38 | 9.9999047 | 11.6788779 |
| 47 | 99977.45 | 4708534.30 | 4709596.08 | 9.9999021 | 11.6728857 |
| 46 | 99976.83 | 4644886.20 | 4645962.53 | 9.9998994 | 11.6669751 |
| 45 | 99976.20 | 4582935.12 | 4584025.99 | 9.9998966 | 11.6611437 |
| 44 | 99975.56 | 4522614.07 | 4523719.49 | 9.9998939 | 11.6553895 |
| 43 | 99974.91 | 4463859.56 | 4464979.52 | 9.9998911 | 11.6497105 |
| 42 | 99974.25 | 4406611.32 | 4407745.83 | 9.9998882 | 11.6441047 |
| 41 | 99973.59 | 4350812.16 | 4351961.22 | 9.9998853 | 11.6385703 |
| 40 | 99972.92 | 4296407.73 | 4297571.34 | 9.9998824 | 11.6331055 |
| 39 | 99972.24 | 4243346.39 | 4244524.54 | 9.9998794 | 11.6277085 |
| 38 | 99971.55 | 4191578.99 | 4192771.68 | 9.9998764 | 11.6223777 |
| 37 | 99970.85 | 4141058.76 | 4142266.00 | 9.9998734 | 11.6171114 |
| 36 | 99970.14 | 4091741.16 | 4092962.95 | 9.9998703 | 11.6119082 |
| 35 | 99969.43 | 4043583.75 | 4044820.09 | 9.9998672 | 11.6067664 |
| 34 | 99968.71 | 3996546.05 | 3997796.94 | 9.9998641 | 11.6016848 |
| 33 | 99967.98 | 3950589.46 | 3951854.89 | 9.9998609 | 11.5966619 |
| 32 | 99967.24 | 3905677.11 | 3906957.09 | 9.9998577 | 11.5916963 |
| 31 | 99966.49 | 3861773.81 | 3863068.34 | 9.9998544 | 11.5867868 |
| 30 | 99965.73 | 3818845.93 | 3820155.00 | 9.9998512 | 11.5819321 |

1 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---------|---------|-----------|-----------|------------|
| 2617.69 | 2618.59 | 100034.28 | 8.4179190 | 8.4180679 |
| 2646.77 | 2647.70 | 100035.05 | 8.4227168 | 8.4228690 |
| 2675.85 | 2676.81 | 100035.82 | 8.4274621 | 8.4276176 |
| 2704.93 | 2705.92 | 100036.60 | 8.4321561 | 8.4323150 |
| 2734.01 | 2735.03 | 100037.39 | 8.4367999 | 8.4369622 |
| 2763.09 | 2764.14 | 100038.19 | 8.4413944 | 8.4415603 |
| 2792.16 | 2793.25 | 100039.00 | 8.4459409 | 8.4461103 |
| 2821.24 | 2822.36 | 100039.82 | 8.4504402 | 8.4506131 |
| 2850.32 | 2851.48 | 100040.65 | 8.4548934 | 8.4550699 |
| 2879.40 | 2880.59 | 100041.48 | 8.4593013 | 8.4594814 |
| 2908.47 | 2909.70 | 100042.32 | 8.4636649 | 8.4638486 |
| 2937.55 | 2938.82 | 100043.17 | 8.4679850 | 8.4681725 |
| 2966.62 | 2967.93 | 100044.03 | 8.4722626 | 8.4724538 |
| 2995.70 | 2997.05 | 100044.90 | 8.4764984 | 8.4766933 |
| 3024.78 | 3026.16 | 100045.78 | 8.4806932 | 8.4808920 |
| 3053.85 | 3055.28 | 100046.67 | 8.4848479 | 8.4850505 |
| 3082.93 | 3084.39 | 100047.56 | 8.4889632 | 8.4891696 |
| 3112.00 | 3113.51 | 100048.46 | 8.4930398 | 8.4932502 |
| 3141.08 | 3142.63 | 100049.37 | 8.4970784 | 8.4972928 |
| 3170.15 | 3171.74 | 100050.29 | 8.5010798 | 8.5012982 |
| 3199.22 | 3200.86 | 100051.22 | 8.5050447 | 8.5052671 |
| 3228.30 | 3229.98 | 100052.15 | 8.5089736 | 8.5092001 |
| 3257.37 | 3259.10 | 100053.09 | 8.5128673 | 8.5130978 |
| 3286.44 | 3288.22 | 100054.05 | 8.5167264 | 8.5169610 |
| 3315.52 | 3317.34 | 100055.01 | 8.5205514 | 8.5207902 |
| 3344.59 | 3346.46 | 100055.98 | 8.5243430 | 8.5245860 |
| 3373.66 | 3375.58 | 100056.96 | 8.5281017 | 8.5283490 |
| 3402.73 | 3404.71 | 100057.95 | 8.5318281 | 8.5320797 |
| 3431.81 | 3433.83 | 100058.94 | 8.5355228 | 8.5357787 |
| 3460.88 | 3462.95 | 100059.94 | 8.5391863 | 8.5394466 |
| 3489.95 | 3492.08 | 100050.95 | 8.5428192 | 8.5430838 |

88 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 30 | 99965.73 | 3818845.92 | 3820155.00 | 9.9998512 | 11.5819321 |
| 29 | 99964.96 | 3776861.30 | 3778184.92 | 9.9998478 | 11.5771310 |
| 28 | 99964.19 | 3735789.17 | 3737127.34 | 9.9998445 | 11.5723824 |
| 27 | 99963.41 | 3695600.11 | 3696952.82 | 9.9998411 | 11.5676850 |
| 26 | 99962.62 | 3656265.92 | 3657633.18 | 9.9998376 | 11.5630378 |
| 25 | 99961.82 | 3617759.62 | 3619141.43 | 9.9998342 | 11.5584397 |
| 24 | 99961.01 | 3580055.33 | 3581451.68 | 9.9998306 | 11.5538897 |
| 23 | 99960.19 | 3543128.25 | 3544539.15 | 9.9998271 | 11.5493869 |
| 22 | 99959.36 | 3506954.58 | 3508380.03 | 9.9998235 | 11.5449301 |
| 21 | 99958.53 | 3471511.50 | 3472951.50 | 9.9998199 | 11.5405186 |
| 20 | 99957.69 | 3436777.09 | 3438231.63 | 9.9998162 | 11.5361514 |
| 19 | 99956.84 | 3402730.29 | 3404199.39 | 9.9998125 | 11.5318275 |
| 18 | 99955.98 | 3369350.89 | 3370834.53 | 9.9998088 | 11.5275462 |
| 17 | 99955.11 | 3336619.45 | 3338117.63 | 9.9998050 | 11.5233067 |
| 16 | 99954.24 | 3304517.27 | 3306030.00 | 9.9998012 | 11.5191080 |
| 15 | 99953.36 | 3273026.37 | 3274553.65 | 9.9997974 | 11.5149495 |
| 14 | 99952.47 | 3242129.46 | 3243671.29 | 9.9997935 | 11.5108304 |
| 13 | 99951.57 | 3211809.88 | 3213366.26 | 9.9997896 | 11.5067498 |
| 12 | 99950.66 | 3182051.60 | 3183622.52 | 9.9997856 | 11.5027072 |
| 11 | 99949.74 | 3152839.16 | 3154424.63 | 9.9997817 | 11.4987018 |
| 10 | 99948.81 | 3124157.67 | 3125757.70 | 9.9997776 | 11.4947329 |
| 9 | 99947.88 | 3095992.80 | 3097607.37 | 9.9997736 | 11.4907999 |
| 8 | 99946.94 | 3068330.70 | 3069959.82 | 9.9997695 | 11.4869022 |
| 7 | 99945.99 | 3041158.02 | 3042801.69 | 9.9997653 | 11.4830387 |
| 6 | 99945.03 | 3014461.89 | 3016120.10 | 9.9997612 | 11.4792098 |
| 5 | 99944.06 | 2988229.86 | 2989902.63 | 9.9997570 | 11.4754140 |
| 4 | 99943.08 | 2962449.95 | 2964137.26 | 9.9997527 | 11.4716510 |
| 3 | 99942.09 | 2937110.55 | 2938812.41 | 9.9997484 | 11.4679203 |
| 2 | 99941.09 | 2912200.47 | 2913916.88 | 9.9997441 | 11.4642213 |
| 1 | 99940.09 | 2887708.88 | 2889439.84 | 9.9997398 | 11.4605534 |
| 0 | 99939.08 | 2863625.33 | 2865370.83 | 9.9997354 | 11.4569162 |

2 Grad.

Minut.

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| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---------|---------|-----------|-----------|------------|
| 3489.95 | 3492.08 | 100060.95 | 8.5428192 | 8.5430838 |
| 3519.02 | 3521.20 | 100061.97 | 8.5464218 | 8.5466909 |
| 3548.09 | 3550.33 | 100063.00 | 8.5499948 | 8.5502683 |
| 3577.16 | 3579.45 | 100064.04 | 8.5535386 | 8.5538166 |
| 3606.23 | 3608.58 | 100065.09 | 8.5570536 | 8.5573362 |
| 3635.30 | 3637.71 | 100066.15 | 8.5605404 | 8.5608276 |
| 3664.37 | 3666.83 | 100067.21 | 8.5639994 | 8.5642912 |
| 3693.44 | 3695.96 | 100068.28 | 8.5674310 | 8.5677275 |
| 3722.51 | 3725.09 | 100069.36 | 8.5708357 | 8.5711368 |
| 3751.58 | 3754.22 | 100070.45 | 8.5742139 | 8.5745197 |
| 3780.65 | 3783.35 | 100071.55 | 8.5775660 | 8.5778766 |
| 3809.71 | 3812.48 | 100072.66 | 8.5808923 | 8.5812077 |
| 3838.78 | 3841.61 | 100073.77 | 8.5841933 | 8.5845136 |
| 3867.85 | 3870.74 | 100074.89 | 8.5874694 | 8.5877945 |
| 3896.91 | 3899.88 | 100076.02 | 8.5907209 | 8.5910509 |
| 3925.98 | 3929.01 | 100077.16 | 8.5939483 | 8.5942832 |
| 3955.05 | 3958.14 | 100078.31 | 8.5971517 | 8.5974917 |
| 3984.11 | 3987.28 | 100079.47 | 8.6003317 | 8.6006767 |
| 4013.18 | 4016.41 | 100080.63 | 8.6034886 | 8.6038386 |
| 4042.24 | 4045.55 | 100081.80 | 8.6066226 | 8.6069777 |
| 4071.31 | 4074.69 | 100082.98 | 8.6097341 | 8.6100943 |
| 4100.37 | 4103.83 | 100084.17 | 8.6128235 | 8.6131889 |
| 4129.44 | 4132.96 | 100085.37 | 8.6158910 | 8.6162616 |
| 4158.50 | 4162.10 | 100086.58 | 8.6189369 | 8.6193127 |
| 4187.57 | 4191.24 | 100087.80 | 8.6219616 | 8.6223427 |
| 4216.63 | 4220.38 | 100089.02 | 8.6249653 | 8.6253518 |
| 4245.69 | 4249.52 | 100090.25 | 8.6279484 | 8.6283402 |
| 4274.75 | 4278.66 | 100091.49 | 8.6309111 | 8.6313083 |
| 4303.82 | 4307.81 | 100092.74 | 8.6338537 | 8.6342563 |
| 4332.88 | 4336.95 | 100094.00 | 8.6367764 | 8.6371845 |
| 4361.94 | 4366.09 | 100095.27 | 8.6396796 | 8.6400931 |

87 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. T. |
|--------|----------|------------|------------|-----------|---------|
| 60 | 99939.08 | 2863625.33 | 2865370.83 | 9.9997354 | 11.4569 |
| 59 | 99938.06 | 2839939.69 | 2841699.74 | 9.9997309 | 11.4533 |
| 58 | 99937.03 | 2816642.18 | 2818416.78 | 9.9997265 | 11.4497 |
| 57 | 99935.99 | 2793723.33 | 2795512.48 | 9.9997220 | 11.4461 |
| 56 | 99934.95 | 2771173.99 | 2772977.69 | 9.9997174 | 11.4426 |
| 55 | 99933.90 | 2748985.28 | 2750803.53 | 9.9997128 | 11.4391 |
| 54 | 99932.84 | 2727148.61 | 2728981.41 | 9.9997082 | 11.4357 |
| 53 | 99931.77 | 2705655.68 | 2707503.03 | 9.9997036 | 11.4322 |
| 52 | 99930.69 | 2684498.43 | 2686360.33 | 9.9996989 | 11.4288 |
| 51 | 99929.60 | 2663669.04 | 2665545.49 | 9.9996942 | 11.4254 |
| 50 | 99928.51 | 2643159.96 | 2645050.96 | 9.9996894 | 11.4221 |
| 49 | 99927.40 | 2622963.84 | 2624869.39 | 9.9996846 | 11.4187 |
| 48 | 99926.29 | 2603073.58 | 2604993.68 | 9.9996798 | 11.4154 |
| 47 | 99925.17 | 2583482.27 | 2585416.92 | 9.9996749 | 11.4122 |
| 46 | 99924.04 | 2564183.23 | 2566132.43 | 9.9996700 | 11.4089 |
| 45 | 99922.90 | 2545169.96 | 2547133.71 | 9.9996650 | 11.4057 |
| 44 | 99921.75 | 2526436.15 | 2528414.45 | 9.9996601 | 11.4025 |
| 43 | 99920.60 | 2507975.68 | 2509968.53 | 9.9996550 | 11.3993 |
| 42 | 99919.44 | 2489782.62 | 2491790.02 | 9.9996500 | 11.3961 |
| 41 | 99918.27 | 2471851.19 | 2473873.14 | 9.9996449 | 11.3930 |
| 40 | 99917.09 | 2454175.78 | 2456212.28 | 9.9996398 | 11.3899 |
| 39 | 99915.90 | 2436750.95 | 2438802.00 | 9.9996346 | 11.3868 |
| 38 | 99914.70 | 2419571.40 | 2421637.00 | 9.9996294 | 11.3837 |
| 37 | 99913.49 | 2402631.99 | 2404712.14 | 9.9996242 | 11.3806 |
| 36 | 99912.28 | 2385927.72 | 2388022.42 | 9.9996189 | 11.3776 |
| 35 | 99911.06 | 2369453.72 | 2371562.97 | 9.9996136 | 11.3746 |
| 34 | 99909.83 | 2353205.25 | 2355329.05 | 9.9996082 | 11.3716 |
| 33 | 99908.59 | 2337177.72 | 2339316.07 | 9.9996028 | 11.3686 |
| 32 | 99907.34 | 2321366.65 | 2323519.55 | 9.9995974 | 11.3657 |
| 31 | 99906.08 | 2305767.67 | 2307935.13 | 9.9995919 | 11.3628 |
| 30 | 99904.82 | 2290376.55 | 2292558.56 | 9.9995865 | 11.3599 |

2 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---------|---------|-----------|-----------|------------|
| 4361.94 | 4366.09 | 100095.27 | 8.6396796 | 8.6400931 |
| 4391.00 | 4395.24 | 100096.55 | 8.6425634 | 8.6429825 |
| 4420.06 | 4424.38 | 100097.83 | 8.6454282 | 8.6458528 |
| 4449.12 | 4453.53 | 100099.12 | 8.6482742 | 8.6487044 |
| 4478.18 | 4482.68 | 100100.42 | 8.6511016 | 8.6515375 |
| 4507.24 | 4511.82 | 100101.73 | 8.6539107 | 8.6543522 |
| 4536.30 | 4540.97 | 100103.05 | 8.6567017 | 8.6571490 |
| 4565.36 | 4570.12 | 100104.38 | 8.6594748 | 8.6599279 |
| 4594.42 | 4599.27 | 100105.71 | 8.6622303 | 8.6626891 |
| 4623.47 | 4628.42 | 100107.05 | 8.6649684 | 8.6654331 |
| 4652.53 | 4657.57 | 100108.40 | 8.6676893 | 8.6681598 |
| 4685.59 | 4686.73 | 100109.76 | 8.6703932 | 8.6708697 |
| 4710.64 | 4715.88 | 100111.13 | 8.6730804 | 8.6735628 |
| 4739.70 | 4745.03 | 100112.51 | 8.6757510 | 8.6762393 |
| 4768.76 | 4774.19 | 100113.90 | 8.6784052 | 8.6788996 |
| 4797.81 | 4803.34 | 100115.30 | 8.6810433 | 8.6815437 |
| 4826.87 | 4832.50 | 100116.70 | 8.6836654 | 8.6841719 |
| 4855.92 | 4861.66 | 100118.11 | 8.6862718 | 8.6867844 |
| 4884.98 | 4890.82 | 100119.53 | 8.6888625 | 8.6893813 |
| 4914.03 | 4919.97 | 100120.96 | 8.6914379 | 8.6919929 |
| 4943.08 | 4949.13 | 100122.40 | 8.6939980 | 8.6945292 |
| 4972.14 | 4978.29 | 100123.85 | 8.6965431 | 8.6970806 |
| 5001.19 | 5007.46 | 100125.30 | 8.6990734 | 8.6996173 |
| 5030.24 | 5036.62 | 100126.76 | 8.7015889 | 8.7021390 |
| 5059.29 | 5065.78 | 100128.23 | 8.7040899 | 8.7046465 |
| 5088.35 | 5094.95 | 100129.71 | 8.7065766 | 8.7071395 |
| 5117.40 | 5124.11 | 100131.20 | 8.7090490 | 8.7096185 |
| 5146.45 | 5153.28 | 100132.70 | 8.7115075 | 8.7120834 |
| 5175.50 | 5182.44 | 100134.20 | 8.7139520 | 8.7145345 |
| 5204.55 | 5211.61 | 100135.71 | 8.7163829 | 8.7169719 |
| 5233.60 | 5240.78 | 100137.23 | 8.7188002 | 8.7193958 |

87 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 30 | 99904.82 | 2290376.55 | 2292558.56 | 9.9995865 | 11.359906 |
| 29 | 99903.55 | 2275189.16 | 2277385.72 | 9.9995809 | 11.357017 |
| 28 | 99902.27 | 2260201.48 | 2262412.59 | 9.9995753 | 11.354147 |
| 27 | 99900.98 | 2245409.59 | 2247635.25 | 9.9995697 | 11.351295 |
| 26 | 99899.68 | 2230809.67 | 2233049.89 | 9.9995641 | 11.348462 |
| 25 | 99898.37 | 2216398.02 | 2218652.78 | 9.9995584 | 11.345647 |
| 24 | 99897.05 | 2201171.00 | 2204440.32 | 9.9995527 | 11.342851 |
| 23 | 99895.73 | 2188125.10 | 2190408.97 | 9.9995469 | 11.340072 |
| 22 | 99894.40 | 2174256.87 | 2176555.29 | 9.9995411 | 11.337310 |
| 21 | 99893.06 | 2160562.96 | 2162875.93 | 9.9995353 | 11.334566 |
| 20 | 99891.71 | 2147040.10 | 2149367.63 | 9.9995297 | 11.331840 |
| 19 | 99890.35 | 2133685.11 | 2136027.19 | 9.9995236 | 11.329130 |
| 18 | 99888.98 | 2120494.88 | 2122851.51 | 9.9995176 | 11.326437 |
| 17 | 99887.61 | 2107466.37 | 2109837.55 | 9.9995116 | 11.323760 |
| 16 | 99886.23 | 2094596.63 | 2096982.36 | 9.9995056 | 11.321100 |
| 15 | 99884.84 | 2081882.76 | 2084283.05 | 9.9994996 | 11.318456 |
| 14 | 99883.44 | 2069321.96 | 2071736.80 | 9.9994935 | 11.315828 |
| 13 | 99882.03 | 2056911.47 | 2059340.86 | 9.9994874 | 11.313215 |
| 12 | 99880.61 | 2044648.61 | 2047092.55 | 9.9994812 | 11.310618 |
| 11 | 99879.18 | 2032530.75 | 2034989.25 | 9.9994750 | 11.308037 |
| 10 | 99877.75 | 2020555.35 | 2023028.40 | 9.9994688 | 11.305470 |
| 9 | 99876.31 | 2008719.89 | 2011207.50 | 9.9994625 | 11.302919 |
| 8 | 99874.86 | 1997021.95 | 1999524.11 | 9.9994562 | 11.300382 |
| 7 | 99873.40 | 1985459.12 | 1987975.84 | 9.9994498 | 11.297861 |
| 6 | 99871.93 | 1974029.10 | 1976560.36 | 9.9994435 | 11.295353 |
| 5 | 99870.45 | 1962729.59 | 1965275.41 | 9.9994370 | 11.292860 |
| 4 | 99868.97 | 1951558.37 | 1954118.74 | 9.9994306 | 11.290381 |
| 3 | 99867.48 | 1940513.27 | 1943088.20 | 9.9994241 | 11.287916 |
| 2 | 99865.98 | 1929592.17 | 1932181.65 | 9.9994176 | 11.285465 |
| 1 | 99864.47 | 1918792.98 | 1921397.01 | 9.9994110 | 11.283028 |
| 0 | 99862.95 | 1908113.67 | 1910732.26 | 9.9994044 | 11.280604 |

3 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---------|---------|-----------|-----------|------------|
| 5233.60 | 5240.78 | 100137.23 | 8.7188002 | 8.7193958 |
| 5262.64 | 5269.95 | 100138.76 | 8.7212040 | 8.7218063 |
| 5291.69 | 5299.12 | 100140.30 | 8.7235946 | 8.7242035 |
| 5320.74 | 5328.29 | 100141.85 | 8.7259721 | 8.7265877 |
| 5349.79 | 5357.46 | 100143.41 | 8.7283366 | 8.7289589 |
| 5378.83 | 5386.63 | 100144.98 | 8.7306882 | 8.7313174 |
| 5407.88 | 5415.81 | 100146.55 | 8.7330272 | 8.7336631 |
| 5436.93 | 5444.98 | 100148.13 | 8.7353535 | 8.7359964 |
| 5465.97 | 5474.16 | 100149.72 | 8.7376675 | 8.7383172 |
| 5495.02 | 5503.33 | 100151.32 | 8.7399691 | 8.7406258 |
| 5524.06 | 5532.51 | 100152.93 | 8.7422586 | 8.7429222 |
| 5553.11 | 5561.69 | 100154.55 | 8.7445360 | 8.7452067 |
| 5582.15 | 5590.87 | 100156.17 | 8.7468015 | 8.7474792 |
| 5611.19 | 5620.05 | 100157.80 | 8.7490553 | 8.7497400 |
| 5640.24 | 5649.23 | 100159.44 | 8.7512973 | 8.7519892 |
| 5669.28 | 5678.41 | 100161.09 | 8.7535278 | 8.7542269 |
| 5698.32 | 5707.59 | 100162.75 | 8.7557469 | 8.7564531 |
| 5727.36 | 5736.78 | 100164.42 | 8.7579546 | 8.7586681 |
| 5756.40 | 5765.96 | 100166.10 | 8.7601512 | 8.7608719 |
| 5785.44 | 5795.15 | 100167.78 | 8.7623366 | 8.7630647 |
| 5814.48 | 5824.34 | 100169.47 | 8.7645111 | 8.7652465 |
| 5843.52 | 5853.52 | 100171.17 | 8.7666747 | 8.7674175 |
| 5872.56 | 5882.71 | 100172.88 | 8.7688275 | 8.7695777 |
| 5901.60 | 5911.90 | 100174.60 | 8.7709697 | 8.7717274 |
| 5930.64 | 5941.09 | 100176.33 | 8.7731014 | 8.7738665 |
| 5959.67 | 5970.29 | 100178.07 | 8.7752226 | 8.7759952 |
| 5988.71 | 5999.48 | 100179.81 | 8.7773334 | 8.7781136 |
| 6017.75 | 6028.67 | 100181.56 | 8.7794340 | 8.7802218 |
| 6046.78 | 6057.87 | 100183.32 | 8.7815244 | 8.7823199 |
| 6075.82 | 6087.06 | 100185.09 | 8.7836048 | 8.7844079 |
| 6104.85 | 6116.26 | 100186.87 | 8.7856753 | 8.7864861 |

86 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 60 | 99862.95 | 1908113.67 | 1910732.26 | 9.9994044 | 11.2806042 |
| 59 | 99861.42 | 1897552.26 | 1900185.40 | 9.9993978 | 11.2781937 |
| 58 | 99859.89 | 1887106.80 | 1889754.50 | 9.9993911 | 11.2757965 |
| 57 | 99858.35 | 1876775.39 | 1879437.65 | 9.9993844 | 11.2734123 |
| 56 | 99856.80 | 1866556.18 | 1869232.99 | 9.9993776 | 11.2710411 |
| 55 | 99855.24 | 1856447.34 | 1859138.71 | 9.9993708 | 11.2686826 |
| 54 | 99853.67 | 1846447.09 | 1849153.01 | 9.9993640 | 11.2663369 |
| 53 | 99852.09 | 1836553.70 | 1839274.17 | 9.9993572 | 11.2640036 |
| 52 | 99850.50 | 1826765.44 | 1829500.48 | 9.9993503 | 11.2616828 |
| 51 | 99848.91 | 1817080.67 | 1819830.26 | 9.9993433 | 11.2593742 |
| 50 | 99847.31 | 1807497.74 | 1810261.88 | 9.9993364 | 11.2570778 |
| 49 | 99845.70 | 1798015.05 | 1800793.75 | 9.9993293 | 11.2547933 |
| 48 | 99844.08 | 1788631.04 | 1791424.29 | 9.9993223 | 11.2525208 |
| 47 | 99842.45 | 1779344.17 | 1782151.98 | 9.9993152 | 11.2502600 |
| 46 | 99840.81 | 1770152.94 | 1772975.31 | 9.9993081 | 11.2480108 |
| 45 | 99839.16 | 1761055.88 | 1763892.80 | 9.9993009 | 11.2457731 |
| 44 | 99837.51 | 1752051.55 | 1754903.03 | 9.9992938 | 11.2435469 |
| 43 | 99835.85 | 1743138.54 | 1746004.57 | 9.9992865 | 11.2413319 |
| 42 | 99834.18 | 1734315.46 | 1737196.05 | 9.9992793 | 11.2391281 |
| 41 | 99832.50 | 1725580.95 | 1728476.10 | 9.9992720 | 11.2369353 |
| 40 | 99830.81 | 1716933.69 | 1719843.40 | 9.9992646 | 11.2347535 |
| 39 | 99829.11 | 1708372.38 | 1711296.64 | 9.9992572 | 11.2325825 |
| 38 | 99827.41 | 1699895.74 | 1702834.56 | 9.9992498 | 11.2304223 |
| 37 | 99825.70 | 1691502.51 | 1694455.89 | 9.9992424 | 11.2282726 |
| 36 | 99823.98 | 1683191.48 | 1686159.41 | 9.9992349 | 11.2261335 |
| 35 | 99822.25 | 1674961.44 | 1677943.92 | 9.9992274 | 11.2240048 |
| 34 | 99820.51 | 1666811.20 | 1669808.25 | 9.9992198 | 11.2218864 |
| 33 | 99818.76 | 1658739.62 | 1661751.22 | 9.9992122 | 11.2197782 |
| 32 | 99817.01 | 1650745.55 | 1653771.71 | 9.9992046 | 11.2176801 |
| 31 | 99815.25 | 1642827.89 | 1645868.61 | 9.9991969 | 11.2155921 |
| 30 | 99813.48 | 1634985.55 | 1638040.82 | 9.9991892 | 11.2135139 |

3 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|---------|---------|-----------|-----------|------------|
| 30 | 6104.85 | 6116.26 | 100186.87 | 8.7856753 | 8.7864861 |
| 31 | 6133.85 | 6145.46 | 100188.66 | 8.7877359 | 8.7885544 |
| 32 | 6162.92 | 6174.66 | 100190.46 | 8.7897867 | 8.7906130 |
| 33 | 6191.96 | 6203.86 | 100192.26 | 8.7918278 | 8.7926620 |
| 34 | 6220.99 | 6233.06 | 100194.07 | 8.7938594 | 8.7947014 |
| 35 | 6250.02 | 6262.26 | 100195.89 | 8.7958814 | 8.7967313 |
| 36 | 6279.05 | 6291.47 | 100197.72 | 8.7978941 | 8.7987519 |
| 37 | 6308.08 | 6320.67 | 100199.56 | 8.7998974 | 8.8007632 |
| 38 | 6337.11 | 6349.88 | 100201.41 | 8.8018915 | 8.8027653 |
| 39 | 6366.14 | 6379.08 | 100203.26 | 8.8038764 | 8.8047583 |
| 40 | 6395.17 | 6408.29 | 100205.12 | 8.8058523 | 8.8067422 |
| 41 | 6424.20 | 6437.50 | 100206.99 | 8.8078192 | 8.8087172 |
| 42 | 6453.23 | 6466.71 | 100208.87 | 8.8097772 | 8.8106834 |
| 43 | 6482.26 | 6495.92 | 100210.76 | 8.8117264 | 8.8126407 |
| 44 | 6511.29 | 6525.13 | 100212.66 | 8.8136668 | 8.8145894 |
| 45 | 6540.31 | 6554.35 | 100214.57 | 8.8155985 | 8.8165294 |
| 46 | 6569.34 | 6583.56 | 100216.49 | 8.8175217 | 8.8184608 |
| 47 | 6598.36 | 6612.78 | 100218.41 | 8.8194363 | 8.8203838 |
| 48 | 6627.30 | 6641.99 | 100220.34 | 8.8213425 | 8.8222984 |
| 49 | 6656.41 | 6671.21 | 100222.28 | 8.8232404 | 8.8242046 |
| 50 | 6685.44 | 6700.42 | 100224.23 | 8.8251299 | 8.8261026 |
| 51 | 6714.46 | 6729.65 | 100226.19 | 8.8270112 | 8.8279924 |
| 52 | 6743.48 | 6758.87 | 100228.16 | 8.8288844 | 8.8298741 |
| 53 | 6772.51 | 6788.09 | 100230.13 | 8.8307495 | 8.8317478 |
| 54 | 6801.53 | 6817.32 | 100232.11 | 8.8326066 | 8.8336134 |
| 55 | 6830.55 | 6846.54 | 100234.10 | 8.8344557 | 8.8354712 |
| 56 | 6859.57 | 6875.77 | 100236.10 | 8.8362965 | 8.8373211 |
| 57 | 6888.59 | 6904.99 | 100238.11 | 8.8381304 | 8.8391633 |
| 58 | 6917.61 | 6934.22 | 100240.13 | 8.8399561 | 8.8409977 |
| 59 | 6946.63 | 6963.45 | 100242.16 | 8.8417741 | 8.8428245 |
| 50 | 6975.65 | 6992.68 | 100244.19 | 8.8435845 | 8.8446437 |

86 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 30 | 99813.48 | 1634985.55 | 1638040.82 | 9.9991892 | 11.2135139 |
| 29 | 99811.70 | 1627217.44 | 1630287.28 | 9.9991815 | 11.2114456 |
| 28 | 99809.91 | 1619522.53 | 1622606.93 | 9.9991737 | 11.2093870 |
| 27 | 99808.11 | 1611899.79 | 1614998.74 | 9.9991659 | 11.2073380 |
| 26 | 99806.30 | 1604348.19 | 1607461.70 | 9.9991580 | 11.2052986 |
| 25 | 99804.49 | 1596866.74 | 1599994.81 | 9.9991501 | 11.2032687 |
| 24 | 99802.67 | 1589454.48 | 1592597.11 | 9.9991422 | 11.2012481 |
| 23 | 99800.84 | 1582110.45 | 1585267.64 | 9.9991342 | 11.1992368 |
| 22 | 99799.00 | 1574833.71 | 1578005.45 | 9.9991262 | 11.1972347 |
| 21 | 99797.15 | 1567623.33 | 1570809.63 | 9.9991182 | 11.1952417 |
| 20 | 99795.29 | 1560478.41 | 1563679.27 | 9.9991101 | 11.1932578 |
| 19 | 99793.43 | 1553398.06 | 1556613.48 | 9.9991020 | 11.1912828 |
| 18 | 99791.56 | 1546381.41 | 1549611.39 | 9.9990938 | 11.1893166 |
| 17 | 99789.68 | 1539427.60 | 1542672.15 | 9.9990856 | 11.1873593 |
| 16 | 99787.79 | 1532535.80 | 1535794.90 | 9.9990774 | 11.1854106 |
| 15 | 99785.89 | 1525705.17 | 1528978.83 | 9.9990691 | 11.1834706 |
| 14 | 99783.98 | 1518934.90 | 1522223.12 | 9.9990608 | 11.1815392 |
| 13 | 99782.06 | 1512224.20 | 1515526.98 | 9.9990525 | 11.1796162 |
| 12 | 99780.14 | 1505572.27 | 1508889.61 | 9.9990441 | 11.1777016 |
| 11 | 99778.21 | 1498978.36 | 1502310.26 | 9.9990357 | 11.1757954 |
| 10 | 99776.27 | 1492441.70 | 1495788.16 | 9.9990273 | 11.1738974 |
| 9 | 99774.32 | 1485961.55 | 1489322.58 | 9.9990188 | 11.1720076 |
| 8 | 99772.36 | 1479537.18 | 1482912.77 | 9.9990103 | 11.1701259 |
| 7 | 99770.39 | 1473167.87 | 1476558.02 | 9.9990017 | 11.1682522 |
| 6 | 99768.42 | 1466852.92 | 1470257.63 | 9.9989931 | 11.1663866 |
| 5 | 99766.44 | 1460541.63 | 1464010.90 | 9.9989845 | 11.1645288 |
| 4 | 99764.45 | 1454383.32 | 1457817.15 | 9.9989758 | 11.1626789 |
| 3 | 99762.45 | 1448227.32 | 1451676.71 | 9.9989671 | 11.1608367 |
| 2 | 99760.44 | 1442122.97 | 1445585.92 | 9.9989584 | 11.1590023 |
| 1 | 99758.42 | 1436069.61 | 1439547.13 | 9.9989496 | 11.1571755 |
| 0 | 99756.40 | 1430066.63 | 1433558.70 | 9.9989408 | 11.1553563 |

4 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|---------|---------|-----------|-----------|------------|
| 0 | 6975.65 | 6992.68 | 100244.19 | 8.8435845 | 8.844645 |
| 1 | 7004.66 | 7021.91 | 100246.23 | 8.8453874 | 8.846451 |
| 2 | 7033.68 | 7051.15 | 100248.28 | 8.8471827 | 8.848255 |
| 3 | 7062.70 | 7080.38 | 100250.34 | 8.8489707 | 8.850051 |
| 4 | 7091.71 | 7109.61 | 100252.41 | 8.8507512 | 8.851844 |
| 5 | 7120.73 | 7138.85 | 100254.49 | 8.8525245 | 8.853628 |
| 6 | 7149.74 | 7168.09 | 100256.58 | 8.8542905 | 8.855402 |
| 7 | 7178.76 | 7197.33 | 100258.68 | 8.8560493 | 8.857171 |
| 8 | 7207.77 | 7226.57 | 100260.78 | 8.8578010 | 8.858932 |
| 9 | 7236.78 | 7255.81 | 100262.89 | 8.8595457 | 8.860685 |
| 10 | 7265.80 | 7285.05 | 100265.01 | 8.8612833 | 8.862435 |
| 11 | 7294.81 | 7314.30 | 100267.14 | 8.8630139 | 8.864172 |
| 12 | 7323.82 | 7343.54 | 100269.28 | 8.8647376 | 8.865900 |
| 13 | 7352.83 | 7372.79 | 100271.43 | 8.8664545 | 8.867631 |
| 14 | 7381.84 | 7402.03 | 100273.58 | 8.8681646 | 8.869355 |
| 15 | 7410.85 | 7431.28 | 100275.74 | 8.8698680 | 8.871063 |
| 16 | 7439.86 | 7460.53 | 100277.91 | 8.8715646 | 8.872769 |
| 17 | 7468.87 | 7489.79 | 100280.09 | 8.8732546 | 8.874469 |
| 18 | 7497.87 | 7519.04 | 100282.28 | 8.8749381 | 8.876162 |
| 19 | 7526.88 | 7548.29 | 100284.48 | 8.8766150 | 8.877848 |
| 20 | 7555.89 | 7577.55 | 100286.68 | 8.8782854 | 8.879528 |
| 21 | 7584.89 | 7606.80 | 100288.89 | 8.8799493 | 8.881202 |
| 22 | 7613.90 | 7636.06 | 100291.11 | 8.8816069 | 8.882869 |
| 23 | 7642.90 | 7665.32 | 100293.34 | 8.8832581 | 8.884530 |
| 24 | 7671.90 | 7694.58 | 100295.58 | 8.8849031 | 8.886185 |
| 25 | 7700.91 | 7723.84 | 100297.83 | 8.8865418 | 8.887833 |
| 26 | 7729.91 | 7753.11 | 100300.09 | 8.8881743 | 8.889475 |
| 27 | 7758.91 | 7782.37 | 100302.36 | 8.8898007 | 8.891111 |
| 28 | 7787.91 | 7811.64 | 100304.64 | 8.8914209 | 8.892742 |
| 29 | 7816.91 | 7840.90 | 100306.93 | 8.8930351 | 8.894366 |
| 30 | 7845.91 | 7870.17 | 100309.22 | 8.8946433 | 8.895984 |

85 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 60 | 99756.40 | 1430066.63 | 1433558.70 | 9.9989408 | 11.1553563 |
| 59 | 99754.37 | 1424113.37 | 1427620.01 | 9.9989319 | 11.1535446 |
| 58 | 99752.33 | 1418209.24 | 1421730.45 | 9.9989230 | 11.1517403 |
| 57 | 99750.28 | 1412353.63 | 1415889.39 | 9.9989141 | 11.1499434 |
| 56 | 99748.22 | 1406545.93 | 1410096.25 | 9.9989052 | 11.1481539 |
| 55 | 99746.15 | 1400785.56 | 1404350.45 | 9.9988962 | 11.1463717 |
| 54 | 99744.07 | 1395071.94 | 1398651.39 | 9.9988871 | 11.1445966 |
| 53 | 99741.99 | 1389404.51 | 1392998.52 | 9.9988780 | 11.1428287 |
| 52 | 99739.90 | 1383782.70 | 1387391.28 | 9.9988689 | 11.1410679 |
| 51 | 99737.80 | 1378205.98 | 1381829.12 | 9.9988598 | 11.1393141 |
| 50 | 99735.69 | 1372673.79 | 1376311.49 | 9.9988506 | 11.1375673 |
| 49 | 99733.57 | 1367185.60 | 1370837.87 | 9.9988414 | 11.1358275 |
| 48 | 99731.44 | 1361740.89 | 1365407.72 | 9.9988321 | 11.1340945 |
| 47 | 99729.31 | 1356339.15 | 1360020.54 | 9.9988228 | 11.1323683 |
| 46 | 99727.17 | 1350979.86 | 1354675.82 | 9.9988135 | 11.1306489 |
| 45 | 99725.02 | 1345662.53 | 1349373.06 | 9.9988041 | 11.1289362 |
| 44 | 99722.86 | 1340386.67 | 1344111.76 | 9.9987947 | 11.1272301 |
| 43 | 99720.69 | 1335151.79 | 1338891.44 | 9.9987853 | 11.1255306 |
| 42 | 99718.51 | 1329957.41 | 1333711.63 | 9.9987758 | 11.1238377 |
| 41 | 99716.32 | 1324803.07 | 1328571.86 | 9.9987663 | 11.1221513 |
| 40 | 99714.13 | 1319688.30 | 1323471.65 | 9.9987567 | 11.1204714 |
| 39 | 99711.93 | 1314612.66 | 1318410.57 | 9.9987471 | 11.1187978 |
| 38 | 99709.72 | 1309575.68 | 1313388.16 | 9.9987375 | 11.1171306 |
| 37 | 99707.50 | 1304576.93 | 1308403.98 | 9.9987278 | 11.1154697 |
| 36 | 99705.27 | 1299615.98 | 1303457.60 | 9.9987181 | 11.1138150 |
| 35 | 99703.03 | 1294692.40 | 1298548.58 | 9.9987084 | 11.1121666 |
| 34 | 99700.79 | 1289805.77 | 1293676.51 | 9.9986986 | 11.1105243 |
| 33 | 99698.54 | 1284955.66 | 1288840.97 | 9.9986888 | 11.1088881 |
| 32 | 99696.28 | 1280141.68 | 1284041.55 | 9.9986790 | 11.1072580 |
| 31 | 99694.01 | 1275363.41 | 1279277.86 | 9.9986691 | 11.1056340 |
| 30 | 99691.73 | 1270620.47 | 1274549.48 | 9.9986591 | 11.1040158 |

4 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|---------|---------|-----------|-----------|------------|
| 30 | 7845.91 | 7870.17 | 100309.22 | 8.8946433 | 8.8959842 |
| 31 | 7874.91 | 7899.44 | 100311.52 | 8.8962455 | 8.8975963 |
| 32 | 7903.91 | 7928.71 | 100313.83 | 8.8978418 | 8.8992026 |
| 33 | 7932.90 | 7957.98 | 100316.15 | 8.8994322 | 8.9008030 |
| 34 | 7961.90 | 7987.26 | 100318.48 | 8.9010168 | 8.9023977 |
| 35 | 7990.90 | 8016.53 | 100320.81 | 8.9025955 | 8.9039866 |
| 36 | 8019.89 | 8045.81 | 100323.15 | 8.9041685 | 8.9055697 |
| 37 | 8048.89 | 8075.09 | 100325.50 | 8.9057358 | 8.9071472 |
| 38 | 8077.88 | 8104.37 | 100327.86 | 8.9072975 | 8.9087190 |
| 39 | 8106.87 | 8133.65 | 100330.23 | 8.9088535 | 8.9102853 |
| 40 | 8135.87 | 8162.93 | 100332.61 | 8.9104039 | 8.9118460 |
| 41 | 8164.86 | 8192.21 | 100335.00 | 8.9119487 | 8.9134012 |
| 42 | 8193.85 | 8221.50 | 100337.40 | 8.9134881 | 8.9149509 |
| 43 | 8222.84 | 8250.78 | 100339.80 | 8.9150219 | 8.9164952 |
| 44 | 8251.83 | 8280.07 | 100342.21 | 8.9165504 | 8.9180340 |
| 45 | 8280.82 | 8309.36 | 100344.63 | 8.9180734 | 8.9195675 |
| 46 | 8309.81 | 8338.65 | 100347.06 | 8.9195911 | 8.9210957 |
| 47 | 8338.80 | 8367.94 | 100349.50 | 8.9211034 | 8.9226186 |
| 48 | 8367.78 | 8397.23 | 100351.95 | 8.9226105 | 8.9241363 |
| 49 | 8396.77 | 8426.53 | 100354.41 | 8.9241123 | 8.9256487 |
| 50 | 8425.76 | 8455.83 | 100356.87 | 8.9256089 | 8.9271560 |
| 51 | 8454.74 | 8485.12 | 100359.34 | 8.9271003 | 8.9286581 |
| 52 | 8483.73 | 8514.42 | 100361.82 | 8.9285866 | 8.9301552 |
| 53 | 8512.71 | 8543.72 | 100364.31 | 8.9300678 | 8.9316471 |
| 54 | 8541.69 | 8573.02 | 100366.81 | 8.9315439 | 8.9331340 |
| 55 | 8570.67 | 8602.33 | 100369.32 | 8.9330150 | 8.9346160 |
| 56 | 8599.66 | 8631.63 | 100371.84 | 8.9344811 | 8.9360929 |
| 57 | 8628.64 | 8660.94 | 100374.36 | 8.9359422 | 8.9375650 |
| 58 | 8657.62 | 8690.25 | 100376.89 | 8.9373983 | 8.9390321 |
| 59 | 8686.60 | 8719.56 | 100379.43 | 8.9388496 | 8.9404944 |
| 60 | 8715.57 | 8748.87 | 100381.98 | 8.9402960 | 8.9419518 |

85 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 30 | 99691.73 | 1270620.47 | 1274549.48 | 9.9986591 | 11.1040158 |
| 29 | 99689.44 | 1265912.46 | 1269856.04 | 9.9986492 | 11.1024037 |
| 28 | 99687.15 | 1261239.00 | 1265197.15 | 9.9986392 | 11.1007974 |
| 27 | 99684.85 | 1256599.71 | 1260572.42 | 9.9986292 | 11.0991970 |
| 26 | 99682.54 | 1251994.20 | 1255981.48 | 9.9986191 | 11.0976023 |
| 25 | 99680.22 | 1247422.12 | 1251423.97 | 9.9986090 | 11.0960134 |
| 24 | 99677.89 | 1242883.10 | 1246899.52 | 9.9985988 | 11.0944303 |
| 23 | 99675.55 | 1238376.79 | 1242407.77 | 9.9985886 | 11.0928528 |
| 22 | 99673.20 | 1233902.82 | 1237948.37 | 9.9985784 | 11.0912810 |
| 21 | 99670.85 | 1229460.85 | 1233520.97 | 9.9985682 | 11.0897147 |
| 20 | 99668.49 | 1225050.55 | 1229125.23 | 9.9985579 | 11.0881540 |
| 19 | 99666.12 | 1220671.56 | 1224760.82 | 9.9985475 | 11.0865988 |
| 18 | 99663.74 | 1216323.56 | 1220427.39 | 9.9985372 | 11.0850491 |
| 17 | 99661.35 | 1212006.22 | 1216124.62 | 9.9985268 | 11.0835048 |
| 16 | 99658.95 | 1207719.22 | 1211852.18 | 9.9985163 | 11.0819660 |
| 15 | 99656.55 | 1203462.23 | 1207609.76 | 9.9985058 | 11.0804325 |
| 14 | 99654.14 | 1199234.95 | 1203397.05 | 9.9984953 | 11.0789043 |
| 13 | 99651.72 | 1195037.05 | 1199213.72 | 9.9984848 | 11.0773814 |
| 12 | 99649.29 | 1190868.24 | 1195059.48 | 9.9984742 | 11.0758637 |
| 11 | 99646.85 | 1186728.21 | 1190934.02 | 9.9984636 | 11.0743513 |
| 10 | 99644.40 | 1182616.67 | 1186837.05 | 9.9984529 | 11.0728440 |
| 9 | 99641.94 | 1178533.31 | 1182768.27 | 9.9984422 | 11.0713419 |
| 8 | 99639.48 | 1174477.86 | 1178727.39 | 9.9984315 | 11.0698448 |
| 7 | 99637.01 | 1170450.03 | 1174714.12 | 9.9984207 | 11.0683529 |
| 6 | 99634.53 | 1166449.53 | 1170728.19 | 9.9984099 | 11.0668660 |
| 5 | 99632.04 | 1162476.08 | 1166769.32 | 9.9983990 | 11.0653840 |
| 4 | 99629.54 | 1158529.42 | 1162837.23 | 9.9983881 | 11.0639071 |
| 3 | 99627.03 | 1154609.27 | 1158931.65 | 9.9983772 | 11.0624350 |
| 2 | 99624.52 | 1150715.36 | 1155052.31 | 9.9983663 | 11.0609670 |
| 1 | 99622.00 | 1146847.43 | 1151198.96 | 9.9983553 | 11.0595056 |
| 0 | 99619.47 | 1143005.23 | 1147371.32 | 9.9983442 | 11.0580482 |

5 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|---------|---------|-----------|-----------|------------|
| 0 | 8715.57 | 8748.87 | 100381.98 | 8.9402960 | 8.9419518 |
| 1 | 8744.55 | 8778.18 | 100384.54 | 8.9417376 | 8.9434044 |
| 2 | 8773.53 | 8807.49 | 100387.11 | 8.9431743 | 8.9448523 |
| 3 | 8802.51 | 8836.81 | 100389.69 | 8.9446063 | 8.9462954 |
| 4 | 8831.48 | 8866.12 | 100392.28 | 8.9460335 | 8.9477338 |
| 5 | 8860.46 | 8895.44 | 100394.87 | 8.9474561 | 8.9491676 |
| 6 | 8889.43 | 8924.76 | 100397.47 | 8.9488739 | 8.9505967 |
| 7 | 8918.40 | 8954.08 | 100400.08 | 8.9502871 | 8.9520211 |
| 8 | 8947.38 | 8983.41 | 100402.70 | 8.9516957 | 8.9534410 |
| 9 | 8976.35 | 9012.73 | 100405.33 | 8.9530996 | 8.9548564 |
| 10 | 9005.32 | 9042.06 | 100407.97 | 8.9544991 | 8.9562672 |
| 11 | 9034.29 | 9071.38 | 100410.61 | 8.9558940 | 8.9576735 |
| 12 | 9063.26 | 9100.71 | 100413.26 | 8.9572843 | 8.9590754 |
| 13 | 9092.23 | 9130.04 | 100415.92 | 8.9586703 | 8.9604728 |
| 14 | 9121.19 | 9159.38 | 100418.59 | 8.9600517 | 8.9618659 |
| 15 | 9150.16 | 9188.71 | 100421.27 | 8.9614288 | 8.9632545 |
| 16 | 9179.13 | 9218.04 | 100423.96 | 8.9628014 | 8.9646386 |
| 17 | 9208.09 | 9247.38 | 100426.66 | 8.9641697 | 8.9660188 |
| 18 | 9237.06 | 9276.72 | 100429.37 | 8.9655337 | 8.9673944 |
| 19 | 9266.02 | 9306.06 | 100432.08 | 8.9668934 | 8.9687658 |
| 20 | 9294.99 | 9335.40 | 100434.80 | 8.9682487 | 8.9701330 |
| 21 | 9323.95 | 9364.74 | 100437.53 | 8.9695999 | 8.9714959 |
| 22 | 9352.91 | 9394.09 | 100440.27 | 8.9709468 | 8.9728547 |
| 23 | 9381.87 | 9423.44 | 100443.02 | 8.9722895 | 8.9742092 |
| 24 | 9410.83 | 9452.78 | 100445.78 | 8.9736280 | 8.9755597 |
| 25 | 9439.79 | 9482.13 | 100448.55 | 8.9749624 | 8.9769060 |
| 26 | 9468.75 | 9511.48 | 100451.33 | 8.9762926 | 8.9782483 |
| 27 | 9497.71 | 9540.84 | 100454.11 | 8.9776188 | 8.9795865 |
| 28 | 9526.66 | 9570.19 | 100456.90 | 8.9789408 | 8.9809206 |
| 29 | 9555.62 | 9599.55 | 100459.70 | 8.9802589 | 8.9822507 |
| 30 | 9584.58 | 9628.90 | 100462.51 | 8.9815729 | 8.9835769 |

84 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 60 | 99619.47 | 1143005.23 | 1147371.32 | 9.9983442 | 11.0580482 |
| 59 | 99616.93 | 1139188.49 | 1143569.16 | 9.9983332 | 11.0565956 |
| 58 | 99614.38 | 1135396.96 | 1139792.20 | 9.9983220 | 11.0551477 |
| 57 | 99611.82 | 1131630.40 | 1136040.21 | 9.9983109 | 11.0537046 |
| 56 | 99609.26 | 1127888.55 | 1132312.93 | 9.9982997 | 11.0522662 |
| 55 | 99606.69 | 1124171.17 | 1128610.13 | 9.9982885 | 11.0508324 |
| 54 | 99604.11 | 1120478.03 | 1124931.56 | 9.9982772 | 11.0494033 |
| 53 | 99601.52 | 1116808.88 | 1121276.99 | 9.9982660 | 11.0479789 |
| 52 | 99598.92 | 1113163.50 | 1117646.17 | 9.9982546 | 11.0465590 |
| 51 | 99596.31 | 1109541.64 | 1114038.90 | 9.9982433 | 11.0451436 |
| 50 | 99593.69 | 1105943.10 | 1110454.92 | 9.9982318 | 11.0437328 |
| 49 | 99591.07 | 1102367.63 | 1106894.03 | 9.9982204 | 11.0423265 |
| 48 | 99588.44 | 1098815.01 | 1103355.99 | 9.9982089 | 11.0409246 |
| 47 | 99585.80 | 1095285.04 | 1099840.59 | 9.9981974 | 11.0395272 |
| 46 | 99583.15 | 1091777.49 | 1096347.61 | 9.9981859 | 11.0381343 |
| 45 | 99580.49 | 1088292.14 | 1092876.84 | 9.9981743 | 11.0367455 |
| 44 | 99577.82 | 1084828.80 | 1089428.07 | 9.9981629 | 11.0353612 |
| 43 | 99575.15 | 1081387.24 | 1086001.09 | 9.9981510 | 11.0339812 |
| 42 | 99572.47 | 1077967.27 | 1082595.69 | 9.9981393 | 11.0326056 |
| 41 | 99569.78 | 1074568.68 | 1079211.68 | 9.9981275 | 11.0312342 |
| 40 | 99567.08 | 1071191.26 | 1075848.84 | 9.9981158 | 11.0298670 |
| 39 | 99564.37 | 1067834.84 | 1072506.99 | 9.9981040 | 11.0285041 |
| 38 | 99561.65 | 1064499.19 | 1069185.92 | 9.9980921 | 11.0271453 |
| 37 | 99558.92 | 1061184.14 | 1065885.45 | 9.9980802 | 11.0257908 |
| 36 | 99556.19 | 1057889.50 | 1062605.38 | 9.9980683 | 11.0244402 |
| 35 | 99553.45 | 1054615.07 | 1059345.53 | 9.9980563 | 11.0230941 |
| 34 | 99550.70 | 1051360.67 | 1056105.70 | 9.9980443 | 11.0217511 |
| 33 | 99547.94 | 1048126.11 | 1052885.72 | 9.9980323 | 11.0204131 |
| 32 | 99545.17 | 1044911.22 | 1049685.41 | 9.9980202 | 11.0190791 |
| 31 | 99542.40 | 1041715.81 | 1046504.58 | 9.9980081 | 11.0177491 |
| 30 | 99539.62 | 1038539.71 | 1043343.05 | 9.9979960 | 11.0164231 |

5 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 9584.58 | 9628.90 | 100462.51 | 8.9815729 | 8.9835769 |
| 9613.53 | 9658.26 | 100465.33 | 8.9828829 | 8.9848991 |
| 9642.48 | 9687.63 | 100468.16 | 8.9841889 | 8.9862173 |
| 9671.44 | 9716.99 | 100470.99 | 8.9854910 | 8.9875317 |
| 9700.39 | 9746.35 | 100473.83 | 8.9867891 | 8.9888421 |
| 9729.34 | 9775.72 | 100476.68 | 8.9880834 | 8.9901487 |
| 9758.29 | 9805.09 | 100479.54 | 8.9893737 | 8.9914514 |
| 9787.24 | 9834.46 | 100482.41 | 8.9906602 | 8.9927503 |
| 9816.19 | 9863.83 | 100485.29 | 8.9919429 | 8.9940454 |
| 9845.14 | 9893.20 | 100488.18 | 8.9932217 | 8.9953367 |
| 9874.08 | 9922.57 | 100491.08 | 8.9944968 | 8.9966243 |
| 9903.03 | 9951.95 | 100493.99 | 8.9957681 | 8.9979081 |
| 9931.97 | 9981.33 | 100496.90 | 8.9970356 | 8.9991883 |
| 9960.92 | 10010.71 | 100499.82 | 8.9982994 | 9.0004647 |
| 9989.86 | 10040.09 | 100502.75 | 8.9995595 | 9.0017375 |
| 10018.81 | 10069.47 | 100505.69 | 9.0008160 | 9.0030066 |
| 10047.75 | 10098.85 | 100508.64 | 9.0020687 | 9.0042721 |
| 10076.69 | 10128.24 | 100511.60 | 9.0033179 | 9.0055340 |
| 10105.63 | 10157.63 | 100514.57 | 9.0045634 | 9.0067924 |
| 10134.57 | 10187.02 | 100517.54 | 9.0058053 | 9.0080471 |
| 10163.51 | 10216.41 | 100520.52 | 9.0070436 | 9.0092984 |
| 10192.45 | 10245.80 | 100523.51 | 9.0082784 | 9.0105461 |
| 10221.38 | 10275.20 | 100526.51 | 9.0095096 | 9.0117903 |
| 10250.32 | 10304.60 | 100529.52 | 9.0107374 | 9.0130310 |
| 10279.25 | 10334.00 | 100532.54 | 9.0119616 | 9.0142682 |
| 10308.19 | 10363.40 | 100535.57 | 9.0131823 | 9.0155021 |
| 10337.12 | 10392.80 | 100538.60 | 9.0143996 | 9.0167325 |
| 10366.05 | 10422.20 | 100541.64 | 9.0156135 | 9.0179594 |
| 10394.99 | 10451.60 | 100544.69 | 9.0168239 | 9.0191831 |
| 10423.92 | 10481.01 | 100547.75 | 9.0180309 | 9.0204033 |
| 10452.85 | 10510.42 | 100550.82 | 9.0192346 | 9.0216202 |

84 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|------------|-----------|------------|
| 30 | 99539.62 | 1038539.71 | 1043343.05 | 9.9979960 | 11.0164231 |
| 29 | 99536.83 | 1035382.74 | 1040200.66 | 9.9979838 | 11.0151009 |
| 28 | 99534.03 | 1032244.73 | 1037077.23 | 9.9979716 | 11.0137827 |
| 27 | 99531.22 | 1029125.51 | 1033972.59 | 9.9979593 | 11.0124683 |
| 26 | 99528.40 | 1026024.90 | 1030886.56 | 9.9979470 | 11.0111579 |
| 25 | 99525.57 | 1022942.76 | 1027818.99 | 9.9979347 | 11.0098513 |
| 24 | 99522.74 | 1019878.90 | 1024769.71 | 9.9979223 | 11.0085486 |
| 23 | 99519.90 | 1016833.16 | 1021738.55 | 9.9979099 | 11.0072497 |
| 22 | 99517.05 | 1013805.39 | 1018725.36 | 9.9978975 | 11.0059546 |
| 21 | 99514.19 | 1010795.42 | 1015729.98 | 9.9978850 | 11.0046633 |
| 20 | 99511.32 | 1007803.11 | 1012752.24 | 9.9978725 | 11.0033757 |
| 19 | 99508.44 | 1004828.28 | 1009792.00 | 9.9978599 | 11.0020916 |
| 18 | 99505.55 | 1001870.80 | 1006849.09 | 9.9978473 | 11.0008117 |
| 17 | 99502.66 | 998930.50 | 1003923.38 | 9.9978347 | 10.9995353 |
| 16 | 99499.76 | 996007.24 | 1001014.70 | 9.9978220 | 10.9982625 |
| 15 | 99496.85 | 993100.88 | 998122.91 | 9.9978093 | 10.9969934 |
| 14 | 99493.93 | 990211.25 | 995247.87 | 9.9977966 | 10.9957279 |
| 13 | 99491.00 | 987338.23 | 992389.43 | 9.9977838 | 10.9944660 |
| 12 | 99488.06 | 984448.16 | 989547.44 | 9.9977710 | 10.9932076 |
| 11 | 99485.12 | 981641.40 | 986721.76 | 9.9977582 | 10.9919529 |
| 10 | 99482.17 | 978817.32 | 983912.27 | 9.9977453 | 10.9907016 |
| 9 | 99479.21 | 976009.27 | 981118.80 | 9.9977323 | 10.9894539 |
| 8 | 99476.24 | 973217.13 | 978341.24 | 9.9977194 | 10.9882097 |
| 7 | 99473.26 | 970440.75 | 975579.44 | 9.9977064 | 10.9869690 |
| 6 | 99470.27 | 967680.00 | 972833.27 | 9.9976933 | 10.9857318 |
| 5 | 99467.28 | 964934.75 | 970102.60 | 9.9976803 | 10.9844979 |
| 4 | 99464.28 | 962204.86 | 967387.30 | 9.9976672 | 10.9832675 |
| 3 | 99461.27 | 959490.22 | 964687.24 | 9.9976540 | 10.9820406 |
| 2 | 99458.25 | 956790.68 | 962002.29 | 9.9976408 | 10.9808169 |
| 1 | 99455.22 | 954106.13 | 959332.33 | 9.9976276 | 10.9795967 |
| 0 | 99452.18 | 951436.45 | 956677.22 | 9.9976143 | 10.9783798 |

6 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 10452.85 | 10510.42 | 100550.82 | 9.0192346 | 9.0216202 |
| 1 | 10481.78 | 10539.83 | 100553.90 | 9.0204348 | 9.0228338 |
| 2 | 10510.70 | 10569.24 | 100556.99 | 9.0216318 | 9.0240441 |
| 3 | 10539.63 | 10598.66 | 100560.09 | 9.0228254 | 9.0252510 |
| 4 | 10568.56 | 10628.08 | 100563.20 | 9.0240157 | 9.0264548 |
| 5 | 10597.48 | 10657.50 | 100566.31 | 9.0252027 | 9.0276552 |
| 6 | 10626.41 | 10686.92 | 100569.43 | 9.0263865 | 9.0288524 |
| 7 | 10655.33 | 10716.34 | 100572.56 | 9.0275669 | 9.0300464 |
| 8 | 10684.25 | 10745.76 | 100575.70 | 9.0287442 | 9.0312373 |
| 9 | 10713.18 | 10775.19 | 100578.85 | 9.0299182 | 9.0324249 |
| 10 | 10742.10 | 10804.62 | 100582.01 | 9.0310890 | 9.0336093 |
| 11 | 10771.02 | 10834.05 | 100585.18 | 9.0322567 | 9.0347906 |
| 12 | 10799.94 | 10863.48 | 100588.35 | 9.0334212 | 9.0359688 |
| 13 | 10828.85 | 10892.91 | 100591.53 | 9.0345825 | 9.0371439 |
| 14 | 10857.77 | 10922.34 | 100594.72 | 9.0357407 | 9.0383159 |
| 15 | 10886.69 | 10951.78 | 100597.92 | 9.0368958 | 9.0394848 |
| 16 | 10915.60 | 10981.22 | 100601.13 | 9.0380477 | 9.0406506 |
| 17 | 10944.52 | 11010.66 | 100604.35 | 9.0391966 | 9.0418134 |
| 18 | 10973.43 | 11040.10 | 100607.58 | 9.0403424 | 9.0429731 |
| 19 | 11002.34 | 11069.54 | 100610.81 | 9.0414852 | 9.0441299 |
| 20 | 11031.26 | 11098.99 | 100614.05 | 9.0426249 | 9.0452836 |
| 21 | 11060.17 | 11128.44 | 100617.30 | 9.0437617 | 9.0464343 |
| 22 | 11089.08 | 11157.89 | 100620.56 | 9.0448954 | 9.0475821 |
| 23 | 11117.99 | 11187.34 | 100623.83 | 9.0460261 | 9.0487270 |
| 24 | 11146.89 | 11216.79 | 100627.11 | 9.0471538 | 9.0498689 |
| 25 | 11175.80 | 11246.25 | 100630.40 | 9.0482786 | 9.0510078 |
| 26 | 11204.71 | 11275.71 | 100633.70 | 9.0494005 | 9.0521439 |
| 27 | 11233.61 | 11305.17 | 100637.01 | 9.0505194 | 9.0532771 |
| 28 | 11262.52 | 11334.63 | 100640.32 | 9.0516354 | 9.0544074 |
| 29 | 11291.42 | 11364.09 | 100643.64 | 9.0527485 | 9.0555349 |
| 30 | 11320.32 | 11393.56 | 100646.97 | 9.0538588 | 9.0566595 |

83 Grad.

| Minut. | 83 Grad. | | | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| | Sinus. | Tang. | Secant. | | |
| 60 | 99452.18 | 951436.45 | 956677.22 | 9.9976143 | 10.9783798 |
| 59 | 99449.14 | 948781.49 | 954036.86 | 9.9976011 | 10.9771662 |
| 58 | 99446.09 | 946141.16 | 951411.10 | 9.9975877 | 10.9759559 |
| 57 | 99443.03 | 943515.31 | 948799.84 | 9.6975743 | 10.9747490 |
| 56 | 99439.96 | 940903.84 | 946202.96 | 9.9975609 | 10.9735452 |
| 55 | 99436.88 | 938306.63 | 943620.33 | 9.9975475 | 10.9723448 |
| 54 | 99433.79 | 935723.55 | 941051.84 | 9.9975340 | 10.9711476 |
| 53 | 99430.69 | 933154.50 | 938497.38 | 9.9975205 | 10.9699536 |
| 52 | 99427.59 | 930599.36 | 935956.82 | 9.9975069 | 10.9687627 |
| 51 | 99424.48 | 928058.02 | 933430.06 | 9.9974933 | 10.9675751 |
| 50 | 99421.36 | 925530.35 | 930916.99 | 9.9974797 | 10.9663907 |
| 49 | 99418.23 | 923016.27 | 928417.49 | 9.9974660 | 10.9652094 |
| 48 | 99415.09 | 920515.64 | 925931.45 | 9.9974523 | 10.9640312 |
| 47 | 99411.94 | 918028.38 | 923458.77 | 9.9974386 | 10.9628561 |
| 46 | 99408.79 | 915554.36 | 920999.34 | 9.9974248 | 10.9616841 |
| 45 | 99405.63 | 913093.48 | 918553.05 | 9.9974110 | 10.9605152 |
| 44 | 99402.46 | 910645.64 | 916119.80 | 9.9973971 | 10.9593494 |
| 43 | 99399.28 | 908210.74 | 913699.49 | 9.9973833 | 10.9581866 |
| 42 | 99396.09 | 905788.67 | 911292.00 | 9.9973693 | 10.9570269 |
| 41 | 99392.89 | 903379.33 | 908897.25 | 9.9973554 | 10.9558701 |
| 40 | 99389.69 | 900982.61 | 906515.12 | 9.9973414 | 10.9547164 |
| 39 | 99386.48 | 898598.43 | 904145.53 | 9.9973273 | 10.9535657 |
| 38 | 99383.26 | 896226.68 | 901788.37 | 9.9973132 | 10.9524179 |
| 37 | 99380.03 | 893867.26 | 899443.54 | 9.9972991 | 10.9512730 |
| 36 | 99376.79 | 891520.08 | 897110.95 | 9.9972850 | 10.9501311 |
| 35 | 99373.54 | 889185.05 | 894790.51 | 9.9972708 | 10.9489922 |
| 34 | 99370.28 | 886862.06 | 892482.11 | 9.9972566 | 10.9478561 |
| 33 | 99367.02 | 884551.03 | 890185.67 | 9.9972423 | 10.9467229 |
| 32 | 99363.75 | 882251.86 | 887901.09 | 9.9972280 | 10.9455926 |
| 31 | 99360.47 | 879964.46 | 885628.28 | 9.9972137 | 10.9444651 |
| 30 | 99357.18 | 877688.74 | 883367.15 | 9.9971993 | 10.9433405 |

6 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 11320.32 | 11393.56 | 100646.97 | 9.0538588 | 9.0566595 |
| 31 | 11349.22 | 11423.03 | 100650.31 | 9.0549661 | 9.0577813 |
| 32 | 11378.12 | 11452.50 | 100653.66 | 9.0560706 | 9.0589002 |
| 33 | 11407.02 | 11481.97 | 100657.02 | 9.0571723 | 9.0600164 |
| 34 | 11435.92 | 11511.44 | 100660.39 | 9.0582711 | 9.0611297 |
| 35 | 11464.82 | 11540.91 | 100663.77 | 9.0593671 | 9.0622403 |
| 36 | 11493.71 | 11570.39 | 100667.15 | 9.0604604 | 9.0633482 |
| 37 | 11522.61 | 11599.87 | 100670.54 | 9.0615509 | 9.0644533 |
| 38 | 11551.51 | 11629.35 | 100673.94 | 9.0626386 | 9.0655556 |
| 39 | 11580.40 | 11658.83 | 100677.35 | 9.0637235 | 9.0666553 |
| 40 | 11609.29 | 11688.31 | 100680.77 | 9.0648057 | 9.0677522 |
| 41 | 11638.18 | 11717.80 | 100684.20 | 9.0658852 | 9.0688465 |
| 42 | 11667.07 | 11747.29 | 100687.64 | 9.0669619 | 9.0699381 |
| 43 | 11695.96 | 11776.78 | 100691.08 | 9.0680360 | 9.0710270 |
| 44 | 11724.85 | 11806.28 | 100694.53 | 9.0691074 | 9.0721133 |
| 45 | 11753.74 | 11835.78 | 100697.99 | 9.0701761 | 9.0731969 |
| 46 | 11782.63 | 11865.28 | 100701.46 | 9.0712421 | 9.0742779 |
| 47 | 11811.51 | 11894.78 | 100704.94 | 9.0723055 | 9.0753563 |
| 48 | 11840.40 | 11924.28 | 100708.43 | 9.0733663 | 9.0764321 |
| 49 | 11869.28 | 11953.78 | 100711.93 | 9.0744244 | 9.0775053 |
| 50 | 11898.16 | 11983.28 | 100715.44 | 9.0754799 | 9.0785760 |
| 51 | 11927.04 | 12012.79 | 100718.96 | 9.0765329 | 9.0796441 |
| 52 | 11955.93 | 12042.30 | 100722.48 | 9.0775832 | 9.0807096 |
| 53 | 11984.81 | 12071.81 | 100726.01 | 9.0786310 | 9.0817726 |
| 54 | 12013.68 | 12101.32 | 100729.55 | 9.0796762 | 9.0828331 |
| 55 | 12042.56 | 12130.84 | 100733.10 | 9.0807189 | 9.0838911 |
| 56 | 12071.44 | 12160.36 | 100736.66 | 9.0817590 | 9.0849466 |
| 57 | 12100.31 | 12189.88 | 100740.23 | 9.0827966 | 9.0859996 |
| 58 | 12129.19 | 12219.40 | 100743.81 | 9.0838317 | 9.0870501 |
| 59 | 12158.06 | 12248.93 | 100747.40 | 9.0848643 | 9.0880981 |
| 50 | 12186.93 | 12278.46 | 100750.99 | 9.0858945 | 9.0891438 |

83 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 99357.18 | 877688.74 | 883367.15 | 9.9971993 | 10.9433405 |
| 29 | 99353.88 | 875424.61 | 881117.61 | 9.9971849 | 10.9422187 |
| 28 | 99350.58 | 873171.98 | 878879.57 | 9.9971704 | 10.9410998 |
| 27 | 99347.27 | 870930.77 | 876652.95 | 9.9971559 | 10.9399836 |
| 26 | 99343.95 | 868700.88 | 874437.66 | 9.9971414 | 10.9388703 |
| 25 | 99340.62 | 866482.23 | 872233.61 | 9.9971268 | 10.9377597 |
| 24 | 99337.28 | 864274.75 | 870040.71 | 9.9971122 | 10.9366518 |
| 23 | 99333.93 | 862078.33 | 867858.89 | 9.9970976 | 10.9355467 |
| 22 | 99330.57 | 859892.90 | 865688.05 | 9.9970829 | 10.9344444 |
| 21 | 99327.20 | 857718.38 | 863528.12 | 9.9970682 | 10.9333447 |
| 20 | 99323.83 | 855554.68 | 861379.01 | 9.9970535 | 10.9322478 |
| 19 | 99320.45 | 853401.72 | 859240.65 | 9.9970387 | 10.9311535 |
| 18 | 99317.06 | 851259.43 | 857112.95 | 9.9970239 | 10.9300519 |
| 17 | 99313.66 | 849127.72 | 854995.84 | 9.9970090 | 10.9289730 |
| 16 | 99310.25 | 847006.51 | 852889.23 | 9.9969941 | 10.9278867 |
| 15 | 99306.84 | 844895.73 | 850793.04 | 9.9969792 | 10.9268031 |
| 14 | 99303.42 | 842795.31 | 848707.21 | 9.9969642 | 10.9257221 |
| 13 | 99299.99 | 840705.15 | 846631.65 | 9.9969492 | 10.9246437 |
| 12 | 99296.55 | 838625.19 | 844566.29 | 9.9969342 | 10.9235679 |
| 11 | 99293.10 | 836555.36 | 842511.05 | 9.9969191 | 10.9224947 |
| 10 | 99289.64 | 834495.57 | 840465.86 | 9.9969040 | 10.9214240 |
| 9 | 99286.17 | 832445.77 | 838430.65 | 9.9968888 | 10.9203559 |
| 8 | 99282.70 | 830405.86 | 836405.34 | 9.9968736 | 10.9192904 |
| 7 | 99279.22 | 828375.79 | 834389.86 | 9.9968584 | 10.9182274 |
| 6 | 99275.73 | 826355.47 | 832384.15 | 9.9968431 | 10.9171669 |
| 5 | 99272.23 | 824344.85 | 830388.12 | 9.9968278 | 10.9161089 |
| 4 | 99268.72 | 822343.84 | 828401.71 | 9.9968125 | 10.9150534 |
| 3 | 99265.21 | 820352.39 | 826424.85 | 9.9967971 | 10.9140004 |
| 2 | 99261.69 | 818370.41 | 824457.48 | 9.9967817 | 10.9129499 |
| 1 | 99258.16 | 816397.86 | 822499.52 | 9.9967662 | 10.9119019 |
| 0 | 99254.62 | 814434.64 | 820550.90 | 9.9967507 | 10.9108562 |

7 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| | 0 | 12186.93 | 12278.46 | 100750.99 | 9.0858945 |
| 1 | 12215.81 | 12307.99 | 100754.59 | 9.0869221 | 9.0901869 |
| 2 | 12244.68 | 12337.52 | 100758.20 | 9.0879473 | 9.0912277 |
| 3 | 12273.55 | 12367.05 | 100761.82 | 9.0889700 | 9.0922660 |
| 4 | 12302.41 | 12396.58 | 100765.45 | 9.0899903 | 9.0933020 |
| 5 | 12331.28 | 12426.12 | 100769.09 | 9.0910082 | 9.0943355 |
| 6 | 12360.15 | 12455.66 | 100772.74 | 9.0920237 | 9.0953669 |
| 7 | 12389.01 | 12485.20 | 100776.39 | 9.0930367 | 9.0963955 |
| 8 | 12417.88 | 12514.74 | 100780.05 | 9.0940474 | 9.0974219 |
| 9 | 12446.74 | 12544.29 | 100783.72 | 9.0950556 | 9.0984460 |
| 10 | 12475.60 | 12573.84 | 100787.40 | 9.0960615 | 9.0994678 |
| 11 | 12504.46 | 12603.39 | 100791.09 | 9.0970651 | 9.1004872 |
| 12 | 12533.32 | 12632.94 | 100794.79 | 9.0980662 | 9.1015044 |
| 13 | 12562.18 | 12662.49 | 100798.50 | 9.0990651 | 9.1025192 |
| 14 | 12591.04 | 12692.05 | 100802.22 | 9.1000616 | 9.1035317 |
| 15 | 12619.90 | 12721.61 | 100805.95 | 9.1010558 | 9.1045420 |
| 16 | 12648.75 | 12751.17 | 100809.69 | 9.1020477 | 9.1055500 |
| 17 | 12677.61 | 12780.73 | 100813.43 | 9.1030373 | 9.1065557 |
| 18 | 12706.46 | 12810.29 | 100817.18 | 9.1040246 | 9.1075591 |
| 19 | 12735.31 | 12839.86 | 100820.94 | 9.1050096 | 9.1085604 |
| 20 | 12764.16 | 12869.43 | 100824.71 | 9.1059924 | 9.1095594 |
| 21 | 12793.01 | 12899.00 | 100828.49 | 9.1069729 | 9.1105562 |
| 22 | 12821.86 | 12928.57 | 100832.28 | 9.1079512 | 9.1115508 |
| 23 | 12850.71 | 12958.15 | 100836.07 | 9.1089272 | 9.1125431 |
| 24 | 12879.56 | 12987.73 | 100839.88 | 9.1099010 | 9.1135333 |
| 25 | 12908.41 | 13017.31 | 100843.70 | 9.1108726 | 9.1145213 |
| 26 | 12937.25 | 13046.89 | 100847.52 | 9.1118420 | 9.1155072 |
| 27 | 12966.09 | 13076.48 | 100851.35 | 9.1128092 | 9.1164909 |
| 28 | 12994.94 | 13106.07 | 100855.19 | 9.1137742 | 9.1174724 |
| 29 | 13023.78 | 13135.66 | 100859.04 | 9.1147370 | 9.1184518 |
| 30 | 13052.62 | 13165.25 | 100862.90 | 9.1156977 | 9.1194291 |

82 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|-----------|-----------|-----------|------------|
| 99254.62 | 814434.64 | 820550.90 | 9.9967507 | 10.9108562 |
| 99251.07 | 812480.71 | 818611.57 | 9.9967352 | 10.908131 |
| 99247.51 | 810535.99 | 816681.45 | 9.9967196 | 10.9057723 |
| 99243.94 | 808600.42 | 814760.48 | 9.9967040 | 10.903340 |
| 99240.36 | 806673.94 | 812848.60 | 9.9966884 | 10.9006980 |
| 99236.78 | 804756.47 | 810945.73 | 9.9966727 | 10.8986645 |
| 99233.19 | 802847.96 | 809051.82 | 9.9966570 | 10.8963333 |
| 99229.59 | 800948.35 | 807166.81 | 9.9966412 | 10.8936045 |
| 99225.98 | 799057.56 | 805290.62 | 9.9966254 | 10.8905781 |
| 99222.36 | 797175.55 | 803423.21 | 9.9966096 | 10.8875540 |
| 99218.74 | 795302.24 | 801564.50 | 9.9965937 | 10.8845322 |
| 99215.11 | 793437.58 | 799714.45 | 9.9965778 | 10.8815128 |
| 99211.47 | 791581.51 | 797872.98 | 9.9965619 | 10.8784956 |
| 99207.82 | 789733.96 | 796040.03 | 9.9965459 | 10.8754808 |
| 99204.16 | 787889.89 | 794215.56 | 9.9965299 | 10.8724683 |
| 99200.49 | 786064.23 | 792399.50 | 9.9965138 | 10.8694580 |
| 99196.81 | 784241.91 | 790591.79 | 9.9964977 | 10.8664500 |
| 99193.13 | 782427.90 | 788792.38 | 9.9964816 | 10.8634443 |
| 99189.44 | 780622.12 | 787001.20 | 9.9964655 | 10.8604406 |
| 99185.74 | 778824.53 | 785218.21 | 9.9964493 | 10.8574366 |
| 99182.03 | 777035.06 | 783443.35 | 9.9964330 | 10.8544306 |
| 99178.31 | 775253.66 | 781676.56 | 9.9964167 | 10.8514238 |
| 99174.59 | 773480.28 | 779917.78 | 9.9964004 | 10.8484192 |
| 99170.86 | 771714.86 | 778166.97 | 9.9963841 | 10.8454169 |
| 99167.12 | 769957.35 | 776424.06 | 9.9963677 | 10.8424167 |
| 99163.37 | 768207.69 | 774689.01 | 9.9963513 | 10.8394187 |
| 99159.61 | 766465.84 | 772961.76 | 9.9963348 | 10.8364228 |
| 99155.84 | 764731.74 | 771242.27 | 9.9963183 | 10.8334291 |
| 99152.06 | 763005.33 | 769530.47 | 9.9963018 | 10.8304376 |
| 99148.28 | 761286.57 | 767826.31 | 9.9962852 | 10.8274482 |
| 99144.49 | 759575.41 | 766129.76 | 9.9962686 | 10.8244609 |

7 Grad.

| Minut. | Sinus. | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 13052.62 | 13165.25 | 100862.90 | 9.1156977 | 9.1194291 |
| 31 | 13081.46 | 13194.84 | 100866.77 | 9.1166562 | 9.1204043 |
| 32 | 13110.30 | 13224.44 | 100870.65 | 9.1176125 | 9.1213773 |
| 33 | 13139.13 | 13254.04 | 100874.53 | 9.1185667 | 9.1223482 |
| 34 | 13167.97 | 13283.64 | 100878.42 | 9.1195188 | 9.1233171 |
| 35 | 13196.81 | 13313.24 | 100882.32 | 9.1204688 | 9.1242839 |
| 36 | 13225.64 | 13342.85 | 100886.23 | 9.1214167 | 9.1252486 |
| 37 | 13254.47 | 13372.46 | 100890.15 | 9.1223624 | 9.1262112 |
| 38 | 13283.30 | 13402.07 | 100894.08 | 9.1233061 | 9.1271718 |
| 39 | 13312.13 | 13431.68 | 100898.02 | 9.1242477 | 9.1281303 |
| 40 | 13340.96 | 13461.29 | 100901.97 | 9.1251872 | 9.1290868 |
| 41 | 13369.79 | 13490.91 | 100905.92 | 9.1261246 | 9.1300413 |
| 42 | 13398.62 | 13520.53 | 100909.88 | 9.1270600 | 9.1309937 |
| 43 | 13427.44 | 13550.15 | 100913.85 | 9.1279934 | 9.1319442 |
| 44 | 13456.27 | 13579.77 | 100917.83 | 9.1289247 | 9.1328926 |
| 45 | 13485.09 | 13609.40 | 100921.82 | 9.1298539 | 9.1338391 |
| 46 | 13513.92 | 13639.03 | 100925.82 | 9.1307812 | 9.1347835 |
| 47 | 13542.74 | 13668.66 | 100929.83 | 9.1317064 | 9.1357260 |
| 48 | 13571.56 | 13698.29 | 100933.85 | 9.1326297 | 9.1366665 |
| 49 | 13600.38 | 13727.93 | 100937.88 | 9.1335509 | 9.1376051 |
| 50 | 13629.19 | 13757.57 | 100941.92 | 9.1344702 | 9.1385417 |
| 51 | 13658.01 | 13787.21 | 100945.96 | 9.1353875 | 9.1394764 |
| 52 | 13686.83 | 13816.85 | 100950.01 | 9.1363028 | 9.1404092 |
| 53 | 13715.64 | 13846.50 | 100954.07 | 9.1372161 | 9.1413400 |
| 54 | 13744.45 | 13876.15 | 100958.14 | 9.1381275 | 9.1422689 |
| 55 | 13773.27 | 13905.80 | 100962.22 | 9.1390370 | 9.1431959 |
| 56 | 13802.08 | 13935.45 | 100966.31 | 9.1399445 | 9.1441210 |
| 57 | 13830.89 | 13965.10 | 100970.41 | 9.1408501 | 9.1450442 |
| 58 | 13859.70 | 13994.76 | 100974.52 | 9.1417537 | 9.1459655 |
| 59 | 13888.50 | 14024.42 | 100978.64 | 9.1426555 | 9.1468850 |
| 60 | 13917.31 | 14054.08 | 100982.76 | 9.1435553 | 9.1478025 |

82 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 99144.49 | 759575.41 | 766129.76 | 9.9962686 | 10.8805709 |
| 29 | 99140.69 | 757871.79 | 764440.75 | 9.9962519 | 10.8795957 |
| 28 | 99136.88 | 756175.67 | 762759.23 | 9.9962352 | 10.8786227 |
| 27 | 99133.06 | 754486.99 | 761085.16 | 9.9962185 | 10.8776518 |
| 26 | 99129.23 | 752805.71 | 759418.49 | 9.9962017 | 10.8766829 |
| 25 | 99125.39 | 751131.78 | 757759.16 | 9.9961849 | 10.8757161 |
| 24 | 99121.55 | 749465.14 | 756107.13 | 9.9961681 | 10.8747514 |
| 23 | 99117.70 | 747805.76 | 754462.36 | 9.9961512 | 10.8737888 |
| 22 | 99113.84 | 746153.57 | 752824.78 | 9.9961343 | 10.8728282 |
| 21 | 99109.97 | 744508.55 | 751194.37 | 9.9961174 | 10.8718697 |
| 20 | 99106.09 | 742870.64 | 749571.06 | 9.9961004 | 10.8709132 |
| 19 | 99102.21 | 741239.78 | 747954.82 | 9.9960834 | 10.8699587 |
| 18 | 99098.32 | 739615.95 | 746345.60 | 9.9960663 | 10.8690063 |
| 17 | 99094.42 | 737999.09 | 744743.35 | 9.9960492 | 10.8680558 |
| 16 | 99090.51 | 736389.16 | 743148.03 | 9.9960321 | 10.8671074 |
| 15 | 99086.59 | 734786.19 | 741559.59 | 9.9960149 | 10.8661609 |
| 14 | 99082.66 | 733189.89 | 739977.98 | 9.9959977 | 10.8652165 |
| 13 | 99078.72 | 731600.47 | 738403.18 | 9.9959804 | 10.8642740 |
| 12 | 99074.78 | 730017.80 | 736835.12 | 9.9959631 | 10.8633335 |
| 11 | 99070.83 | 728441.84 | 735273.77 | 9.9959458 | 10.8623945 |
| 10 | 99066.87 | 726872.55 | 733719.09 | 9.9959284 | 10.8614583 |
| 9 | 99062.90 | 725309.87 | 732171.02 | 9.9959111 | 10.8605236 |
| 8 | 99058.92 | 723753.78 | 730629.54 | 9.9958936 | 10.8595908 |
| 7 | 99054.93 | 722204.22 | 729094.60 | 9.9958761 | 10.8586600 |
| 6 | 99050.94 | 720661.16 | 727566.16 | 9.9958586 | 10.8577311 |
| 5 | 99046.94 | 719124.56 | 726044.17 | 9.9958411 | 10.8568041 |
| 4 | 99042.93 | 717594.37 | 724528.59 | 9.9958235 | 10.8558790 |
| 3 | 99038.91 | 716070.56 | 723019.40 | 9.9958059 | 10.8549551 |
| 2 | 99034.88 | 714553.08 | 721516.53 | 9.9957882 | 10.8540341 |
| 1 | 99030.84 | 713041.90 | 720019.96 | 9.9957705 | 10.8531150 |
| 0 | 99026.80 | 711536.97 | 718529.65 | 9.9957528 | 10.8521971 |

8 Grad.

| Minut. | 8 Grad. | | | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| | Sinus | Tang. | Secant. | | |
| 0 | 13917.31 | 14054.08 | 100982.76 | 9.1435553 | 9.147802 |
| 1 | 13946.12 | 14083.74 | 100986.89 | 9.1444532 | 9.148718 |
| 2 | 13974.92 | 14113.41 | 100991.03 | 9.1453493 | 9.149632 |
| 3 | 14003.72 | 14143.08 | 100995.18 | 9.1462435 | 9.150544 |
| 4 | 14032.52 | 14172.75 | 100999.34 | 9.1471358 | 9.151454 |
| 5 | 14061.32 | 14202.43 | 101003.51 | 9.1480262 | 9.152362 |
| 6 | 14090.12 | 14232.11 | 101007.69 | 9.1489148 | 9.153269 |
| 7 | 14118.92 | 14261.79 | 101011.88 | 9.1498015 | 9.154173 |
| 8 | 14147.72 | 14291.47 | 101016.07 | 9.1506864 | 9.155076 |
| 9 | 14176.51 | 14321.15 | 101020.27 | 9.1515694 | 9.155978 |
| 10 | 14205.31 | 14350.84 | 101024.48 | 9.1524507 | 9.156877 |
| 11 | 14234.10 | 14380.53 | 101028.70 | 9.1533301 | 9.157774 |
| 12 | 14262.89 | 14410.22 | 101032.93 | 9.1542076 | 9.158670 |
| 13 | 14291.68 | 14439.91 | 101037.17 | 9.1550834 | 9.159564 |
| 14 | 14320.47 | 14469.61 | 101041.42 | 9.1559574 | 9.160456 |
| 15 | 14349.26 | 14499.31 | 101045.68 | 9.1568296 | 9.161347 |
| 16 | 14378.05 | 14529.01 | 101049.95 | 9.1577000 | 9.162236 |
| 17 | 14406.84 | 14558.71 | 101054.23 | 9.1585686 | 9.163123 |
| 18 | 14435.62 | 14588.42 | 101058.51 | 9.1594354 | 9.164008 |
| 19 | 14464.40 | 14618.13 | 101062.80 | 9.1603005 | 9.164891 |
| 20 | 14493.19 | 14647.84 | 101067.10 | 9.1611639 | 9.165773 |
| 21 | 14521.97 | 14677.55 | 101071.41 | 9.1620254 | 9.166653 |
| 22 | 14550.75 | 14707.27 | 101075.73 | 9.1628853 | 9.167532 |
| 23 | 14579.53 | 14736.99 | 101080.06 | 9.1637434 | 9.168498 |
| 24 | 14608.30 | 14766.71 | 101084.40 | 9.1645998 | 9.169283 |
| 25 | 14637.08 | 14796.44 | 101088.75 | 9.1654544 | 9.170157 |
| 26 | 14665.85 | 14826.17 | 101093.11 | 9.1663074 | 9.171028 |
| 27 | 14694.63 | 14855.90 | 101097.47 | 9.1671586 | 9.171898 |
| 28 | 14723.40 | 14885.63 | 101101.84 | 9.1680081 | 9.172767 |
| 29 | 14752.17 | 14915.36 | 101106.22 | 9.1688559 | 9.173633 |
| 30 | 14780.94 | 14945.10 | 101110.61 | 9.1697021 | 9.174498 |

81 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 99026.80 | 711536.97 | 718529.65 | 9.9957528 | 10.8521975 |
| 59 | 99022.75 | 710038.26 | 717045.56 | 9.9957350 | 10.8512818 |
| 58 | 99018.69 | 708545.73 | 715567.64 | 9.9957172 | 10.8503679 |
| 57 | 99014.62 | 707059.34 | 714095.87 | 9.9956993 | 10.8494559 |
| 56 | 99010.54 | 705579.05 | 712630.19 | 9.9956815 | 10.8485457 |
| 55 | 99006.45 | 704104.82 | 711170.58 | 9.9956635 | 10.8476373 |
| 54 | 99002.36 | 702636.62 | 709717.00 | 9.9956456 | 10.8467308 |
| 53 | 98998.26 | 701174.41 | 708279.41 | 9.9956276 | 10.8458261 |
| 52 | 98994.15 | 699718.06 | 706827.77 | 9.9956095 | 10.8449231 |
| 51 | 98990.03 | 698267.81 | 705392.05 | 9.9955915 | 10.8440220 |
| 50 | 98985.90 | 696823.35 | 703962.20 | 9.9955734 | 10.8431227 |
| 49 | 98981.76 | 695384.73 | 702538.20 | 9.9955552 | 10.8422252 |
| 48 | 98977.62 | 693951.92 | 701120.01 | 9.9955370 | 10.8413294 |
| 47 | 98973.47 | 692524.89 | 699707.60 | 9.9955188 | 10.8404354 |
| 46 | 98969.31 | 691103.59 | 698300.92 | 9.9955005 | 10.8395431 |
| 45 | 98965.14 | 689687.99 | 696899.94 | 9.9954822 | 10.8386527 |
| 44 | 98960.96 | 688278.07 | 695504.64 | 9.9954639 | 10.8377639 |
| 43 | 98956.77 | 686873.78 | 694114.96 | 9.9954455 | 10.8368769 |
| 42 | 98952.57 | 685475.08 | 692730.89 | 9.9954271 | 10.8359917 |
| 41 | 98948.37 | 684031.96 | 691352.39 | 9.9954087 | 10.8351081 |
| 40 | 98944.16 | 682644.37 | 689979.42 | 9.9953902 | 10.8342263 |
| 39 | 98939.94 | 681312.27 | 688611.95 | 9.9953717 | 10.8333462 |
| 38 | 98935.71 | 679935.68 | 687249.95 | 9.9953531 | 10.8324678 |
| 37 | 98931.47 | 678564.46 | 685893.38 | 9.9953345 | 10.8315911 |
| 36 | 98927.23 | 677198.67 | 684542.22 | 9.9953159 | 10.8307161 |
| 35 | 98922.98 | 675838.26 | 683196.42 | 9.9952972 | 10.8298428 |
| 34 | 98918.72 | 674483.18 | 681855.97 | 9.9952785 | 10.8289711 |
| 33 | 98914.45 | 673133.41 | 680520.82 | 9.9952597 | 10.8281011 |
| 32 | 98910.17 | 671788.91 | 679190.95 | 9.9952409 | 10.8272328 |
| 31 | 98905.88 | 670449.66 | 677866.32 | 9.9952221 | 10.8263662 |
| 30 | 98901.58 | 669115.62 | 676546.91 | 9.9952033 | 10.8255012 |

8 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 14780.94 | 14945.10 | 101110.61 | 9.1697021 | 9.1744988 |
| 31 | 14809.71 | 14974.84 | 101115.01 | 9.1705465 | 9.1753622 |
| 32 | 14838.48 | 15004.58 | 101119.42 | 9.1713893 | 9.1762239 |
| 33 | 14867.24 | 15034.33 | 101123.84 | 9.1722305 | 9.1770840 |
| 34 | 14896.01 | 15064.08 | 101128.27 | 9.1730695 | 9.1779425 |
| 35 | 14924.77 | 15093.83 | 101132.71 | 9.1739077 | 9.1787993 |
| 36 | 14953.53 | 15123.58 | 101137.15 | 9.1747439 | 9.1796546 |
| 37 | 14982.30 | 15153.33 | 101141.60 | 9.1755784 | 9.1805082 |
| 38 | 15011.06 | 15183.09 | 101146.06 | 9.1764112 | 9.1813602 |
| 39 | 15039.81 | 15212.85 | 101150.53 | 9.1772425 | 9.1822106 |
| 40 | 15068.57 | 15242.61 | 101155.01 | 9.1780721 | 9.1830595 |
| 41 | 15097.33 | 15272.38 | 101159.50 | 9.1789001 | 9.1839068 |
| 42 | 15126.08 | 15302.15 | 101164.00 | 9.1797265 | 9.1847525 |
| 43 | 15154.84 | 15331.92 | 101168.51 | 9.1805512 | 9.1855966 |
| 44 | 15183.59 | 15361.89 | 101173.03 | 9.1813744 | 9.1864392 |
| 45 | 15212.34 | 15391.47 | 101177.56 | 9.1821960 | 9.1872802 |
| 46 | 15241.09 | 15421.25 | 101182.09 | 9.1830160 | 9.1881196 |
| 47 | 15269.84 | 15451.03 | 101186.63 | 9.1838344 | 9.1889575 |
| 48 | 15298.58 | 15480.82 | 101191.18 | 9.1846512 | 9.1897939 |
| 49 | 15327.33 | 15510.61 | 101195.74 | 9.1854665 | 9.1906287 |
| 50 | 15356.07 | 15540.40 | 101200.31 | 9.1862802 | 9.1914621 |
| 51 | 15384.82 | 15570.19 | 101204.89 | 9.1870923 | 9.1922939 |
| 52 | 15413.56 | 15599.98 | 101209.48 | 9.1879029 | 9.1931241 |
| 53 | 15442.30 | 15629.78 | 101214.08 | 9.1887120 | 9.1939529 |
| 54 | 15471.04 | 15659.58 | 101218.69 | 9.1895195 | 9.1947802 |
| 55 | 15499.78 | 15689.38 | 101223.31 | 9.1903254 | 9.1956059 |
| 56 | 15528.51 | 15719.19 | 101227.93 | 9.1911299 | 9.1964302 |
| 57 | 15557.25 | 15749.00 | 101232.56 | 9.1919328 | 9.1972530 |
| 58 | 15585.98 | 15778.81 | 101237.20 | 9.1927342 | 9.1980743 |
| 59 | 15614.72 | 15808.62 | 101241.85 | 9.1935341 | 9.1988941 |
| 60 | 15643.45 | 15838.44 | 101246.51 | 9.1943324 | 9.1997125 |

81. Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 98901.58 | 669115.62 | 676546.91 | 9.9952033 | 10.8255012 |
| 29 | 98897.28 | 667786.77 | 675232.68 | 9.9951844 | 10.8246378 |
| 28 | 98892.97 | 666463.07 | 673923.60 | 9.9951654 | 10.8237761 |
| 27 | 98888.65 | 665144.49 | 672619.65 | 9.9951464 | 10.8229260 |
| 26 | 98884.32 | 663831.00 | 671320.79 | 9.9951274 | 10.8220575 |
| 25 | 98879.98 | 662522.58 | 670026.99 | 9.9951084 | 10.8212007 |
| 24 | 98875.63 | 661219.19 | 668738.22 | 9.9950893 | 10.8203454 |
| 23 | 98871.28 | 659920.80 | 667454.46 | 9.9950702 | 10.8194918 |
| 22 | 98866.92 | 658627.39 | 666175.68 | 9.9950510 | 10.8186398 |
| 21 | 98862.55 | 657338.92 | 664901.84 | 9.9950318 | 10.8177894 |
| 20 | 98858.17 | 656055.38 | 663632.93 | 9.9950126 | 10.8169405 |
| 19 | 98853.78 | 654776.72 | 662368.90 | 9.9949933 | 10.8160932 |
| 18 | 98849.38 | 653502.93 | 661109.73 | 9.9949740 | 10.8152475 |
| 17 | 98844.98 | 652233.96 | 659855.40 | 9.9949546 | 10.8144034 |
| 16 | 98840.57 | 650969.81 | 658605.87 | 9.9949352 | 10.8135608 |
| 15 | 98836.15 | 649710.43 | 657361.12 | 9.9949158 | 10.8127198 |
| 14 | 98831.72 | 648455.81 | 656121.13 | 9.9948964 | 10.8118804 |
| 13 | 98827.28 | 647205.91 | 654885.86 | 9.9948769 | 10.8110425 |
| 12 | 98822.83 | 645960.70 | 653655.28 | 9.9948573 | 10.8102061 |
| 11 | 98818.38 | 644720.17 | 652429.38 | 9.9948377 | 10.8093713 |
| 10 | 98813.92 | 643484.28 | 651208.12 | 9.9948181 | 10.8085379 |
| 9 | 98809.45 | 642253.01 | 649991.48 | 9.9947985 | 10.8077061 |
| 8 | 98804.97 | 641026.33 | 648779.44 | 9.9947788 | 10.8068759 |
| 7 | 98800.48 | 639804.22 | 647571.95 | 9.9947591 | 10.8060471 |
| 6 | 98795.98 | 638586.65 | 646369.01 | 9.9947393 | 10.8052198 |
| 5 | 98791.48 | 637373.59 | 645170.59 | 9.9947195 | 10.8043941 |
| 4 | 98786.97 | 636165.02 | 643976.66 | 9.9946997 | 10.8035698 |
| 3 | 98782.45 | 634960.92 | 642787.19 | 9.9946798 | 10.8027470 |
| 2 | 98777.92 | 633761.26 | 641602.16 | 9.9946599 | 10.8019257 |
| 1 | 98773.38 | 632566.01 | 640421.54 | 9.9946399 | 10.8011059 |
| 0 | 98768.83 | 631375.15 | 639245.32 | 9.9946199 | 10.8002875 |

9 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 15643.45 | 15838.44 | 101246.51 | 9.1943324 | 9.1997125 |
| 15672.18 | 15868.26 | 101251.18 | 9.1951293 | 9.2005294 |
| 15700.91 | 15898.08 | 101255.86 | 9.1959247 | 9.2013449 |
| 15729.63 | 15927.91 | 101260.55 | 9.1967186 | 9.2021588 |
| 15758.36 | 15957.74 | 101265.25 | 9.1975110 | 9.2029714 |
| 15787.08 | 15987.57 | 101269.96 | 9.1983019 | 9.2037825 |
| 15815.81 | 16017.40 | 101274.67 | 9.1990913 | 9.2045922 |
| 15844.53 | 16047.24 | 101279.39 | 9.1998793 | 9.2054004 |
| 15873.25 | 16077.08 | 101284.12 | 9.2006658 | 9.2062072 |
| 15901.97 | 16106.92 | 101288.86 | 9.2014509 | 9.2070126 |
| 15930.69 | 16136.77 | 101293.61 | 9.2022345 | 9.2078165 |
| 15959.40 | 16166.62 | 101298.37 | 9.2030167 | 9.2086191 |
| 15988.12 | 16196.47 | 101303.14 | 9.2037974 | 9.2094203 |
| 16016.83 | 16226.32 | 101307.92 | 9.2045766 | 9.2102200 |
| 16045.55 | 16256.17 | 101312.71 | 9.2053545 | 9.2110184 |
| 16074.26 | 16286.03 | 101317.51 | 9.2061309 | 9.2118153 |
| 16102.97 | 16315.89 | 101322.31 | 9.2069059 | 9.2126109 |
| 16131.67 | 16345.76 | 101327.12 | 9.2076795 | 9.2134051 |
| 16160.38 | 16375.63 | 101331.94 | 9.2084516 | 9.2141980 |
| 16189.09 | 16405.50 | 101336.77 | 9.2092224 | 9.2149894 |
| 16217.79 | 16435.37 | 101341.61 | 9.2099917 | 9.2157795 |
| 16246.50 | 16465.25 | 101346.46 | 9.2107597 | 9.2165683 |
| 16275.20 | 16495.13 | 101351.32 | 9.2115263 | 9.2173556 |
| 16303.90 | 16525.01 | 101356.19 | 9.2122914 | 9.2181417 |
| 16332.60 | 16554.89 | 101361.07 | 9.2130552 | 9.2189264 |
| 16361.29 | 16584.78 | 101365.95 | 9.2138176 | 9.2197097 |
| 16389.99 | 16614.67 | 101370.84 | 9.2145787 | 9.2204917 |
| 16418.68 | 16644.56 | 101375.74 | 9.2153384 | 9.2212724 |
| 16447.38 | 16674.46 | 101380.65 | 9.2160967 | 9.2220518 |
| 16476.07 | 16704.36 | 101385.57 | 9.2168536 | 9.2228298 |
| 16504.76 | 16734.26 | 101390.50 | 9.2176092 | 9.2236065 |

80 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 98768.83 | 631375.15 | 639245.32 | 9.9946199 | 10.8002875 |
| 59 | 98764.28 | 630188.66 | 638073.47 | 9.9945995 | 10.7994706 |
| 58 | 98759.72 | 629006.51 | 636905.95 | 9.9945798 | 10.7986551 |
| 57 | 98755.15 | 627828.68 | 635742.76 | 9.9945597 | 10.7978411 |
| 56 | 98750.57 | 626655.14 | 634583.86 | 9.9945396 | 10.7970286 |
| 55 | 98745.98 | 625485.88 | 633429.23 | 9.9945194 | 10.7962179 |
| 54 | 98741.38 | 624320.86 | 632278.84 | 9.9944992 | 10.7954078 |
| 53 | 98736.77 | 623160.07 | 631132.69 | 9.9944789 | 10.7945996 |
| 52 | 98732.16 | 622003.47 | 629990.73 | 9.9944587 | 10.7937928 |
| 51 | 98727.54 | 620851.06 | 628852.95 | 9.9944383 | 10.7929874 |
| 50 | 98722.91 | 619702.79 | 627719.33 | 9.9944180 | 10.7921839 |
| 49 | 98718.27 | 618558.67 | 626589.84 | 9.9943975 | 10.7913809 |
| 48 | 98713.62 | 617418.65 | 625464.46 | 9.9943771 | 10.7905799 |
| 47 | 98708.97 | 616282.72 | 624343.16 | 9.9943566 | 10.7897806 |
| 46 | 98704.31 | 615150.85 | 623225.94 | 9.9943361 | 10.7889811 |
| 45 | 98699.64 | 614023.03 | 622112.75 | 9.9943156 | 10.7881844 |
| 44 | 98694.96 | 612899.23 | 621003.59 | 9.9942950 | 10.7873889 |
| 43 | 98690.27 | 611779.43 | 619898.43 | 9.9942743 | 10.7865944 |
| 42 | 98685.57 | 610663.60 | 618797.25 | 9.9942537 | 10.785802 |
| 41 | 98680.86 | 609551.74 | 617700.03 | 9.9942330 | 10.785010 |
| 40 | 98676.15 | 608443.81 | 616606.74 | 9.9942122 | 10.784220 |
| 39 | 98671.43 | 607339.79 | 615517.36 | 9.9941914 | 10.783431 |
| 38 | 98666.70 | 606239.67 | 614431.89 | 9.9941706 | 10.782644 |
| 37 | 98661.96 | 605143.43 | 613350.28 | 9.9941498 | 10.781858 |
| 36 | 98657.21 | 604051.03 | 612272.53 | 9.9941289 | 10.781073 |
| 35 | 98652.46 | 602962.47 | 611198.61 | 9.9941079 | 10.780290 |
| 34 | 98647.70 | 601877.72 | 610128.50 | 9.9940870 | 10.779508 |
| 33 | 98642.93 | 600796.76 | 609062.19 | 9.9940659 | 10.778727 |
| 32 | 98638.15 | 599719.57 | 607999.64 | 9.9940449 | 10.777948 |
| 31 | 98633.36 | 598646.14 | 606940.85 | 9.9940238 | 10.777170 |
| 30 | 98628.56 | 597576.44 | 605885.80 | 9.9940027 | 10.776399 |

9 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 16504.76 | 16734.26 | 101390.50 | 9.2176092 | 9.2236065 |
| 16533.45 | 16764.16 | 101395.44 | 9.2183635 | 9.2243819 |
| 16562.14 | 16794.07 | 101400.39 | 9.2191164 | 9.2251561 |
| 16590.82 | 16823.98 | 101405.35 | 9.2198680 | 9.2259289 |
| 16619.51 | 16853.89 | 101410.32 | 9.2206182 | 9.2267004 |
| 16648.19 | 16883.81 | 101415.30 | 9.2213671 | 9.2274706 |
| 16676.87 | 16913.73 | 101420.29 | 9.2221147 | 9.2282395 |
| 16705.55 | 16943.65 | 101425.29 | 9.2228609 | 9.2290071 |
| 16734.23 | 16973.58 | 101430.29 | 9.2236059 | 9.2297735 |
| 16762.91 | 17003.51 | 101435.30 | 9.2243495 | 9.2305386 |
| 16791.59 | 17033.44 | 101440.32 | 9.2250918 | 9.2313024 |
| 16820.26 | 17063.37 | 101445.35 | 9.2258328 | 9.2320650 |
| 16848.94 | 17093.31 | 101450.39 | 9.2265725 | 9.2328262 |
| 16877.61 | 17123.25 | 101455.44 | 9.2273110 | 9.2335863 |
| 16906.28 | 17153.19 | 101460.50 | 9.2280481 | 9.2343451 |
| 16934.95 | 17183.14 | 101465.57 | 9.2287839 | 9.2351026 |
| 16963.62 | 17213.09 | 101470.64 | 9.2295185 | 9.2358589 |
| 16992.28 | 17243.04 | 101475.72 | 9.2302518 | 9.2366139 |
| 17020.95 | 17273.00 | 101480.81 | 9.2309838 | 9.2373678 |
| 17049.61 | 17302.96 | 101485.91 | 9.2317145 | 9.2381203 |
| 17078.28 | 17332.92 | 101491.02 | 9.2324440 | 9.2388717 |
| 17106.94 | 17362.88 | 101496.14 | 9.2331722 | 9.2396218 |
| 17135.60 | 17392.85 | 101501.27 | 9.2338992 | 9.2403708 |
| 17164.25 | 17422.82 | 101506.41 | 9.2346249 | 9.2411185 |
| 17192.91 | 17452.79 | 101511.56 | 9.2353494 | 9.2418650 |
| 17221.56 | 17482.77 | 101516.72 | 9.2360726 | 9.2426103 |
| 17250.22 | 17512.75 | 101521.89 | 9.2367946 | 9.2433543 |
| 17278.87 | 17542.73 | 101527.07 | 9.2375153 | 9.2440972 |
| 17307.52 | 17572.72 | 101532.26 | 9.2382349 | 9.2448389 |
| 17336.17 | 17602.71 | 101537.46 | 9.2389532 | 9.2455794 |
| 17364.82 | 17632.70 | 101542.67 | 9.2396702 | 9.2463188 |

80. Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 98628.56 | 597576.44 | 605885.80 | 9.9940027 | 10.7763935 |
| 29 | 98623.75 | 596510.45 | 604834.45 | 9.9939815 | 10.7756181 |
| 28 | 98618.94 | 595448.15 | 603786.80 | 9.9939603 | 10.7748439 |
| 27 | 98614.12 | 594389.52 | 602742.82 | 9.9939391 | 10.7740711 |
| 26 | 98609.29 | 593334.55 | 601702.50 | 9.9939178 | 10.7732996 |
| 25 | 98604.45 | 592283.22 | 600665.81 | 9.9938965 | 10.7725294 |
| 24 | 98599.60 | 591235.50 | 599632.74 | 9.9938752 | 10.7717605 |
| 23 | 98594.74 | 590191.38 | 598603.26 | 9.9938538 | 10.7709929 |
| 22 | 98589.88 | 589150.84 | 597577.37 | 9.9938324 | 10.7702265 |
| 21 | 98585.01 | 588113.86 | 596555.04 | 9.9938109 | 10.7694614 |
| 20 | 98580.13 | 587080.42 | 595536.25 | 9.9937894 | 10.7686976 |
| 19 | 98575.24 | 586050.51 | 594520.98 | 9.9937679 | 10.7679350 |
| 18 | 98570.34 | 585024.10 | 593509.22 | 9.9937463 | 10.7671738 |
| 17 | 98565.44 | 584001.17 | 592500.95 | 9.9937247 | 10.7664137 |
| 16 | 98560.53 | 582981.72 | 591496.14 | 9.9937030 | 10.7656549 |
| 15 | 98555.61 | 581965.72 | 590494.79 | 9.9936813 | 10.7648974 |
| 14 | 98550.68 | 580953.15 | 589496.88 | 9.9936596 | 10.7641411 |
| 13 | 98545.74 | 579944.00 | 588502.38 | 9.9936378 | 10.7633861 |
| 12 | 98540.79 | 578938.25 | 587511.28 | 9.9936160 | 10.7626322 |
| 11 | 98535.83 | 577935.88 | 586523.56 | 9.9935942 | 10.7618797 |
| 10 | 98530.87 | 576936.88 | 585539.20 | 9.9935723 | 10.7611283 |
| 9 | 98525.90 | 575941.22 | 584558.20 | 9.9935504 | 10.7603782 |
| 8 | 98520.92 | 574948.89 | 583580.53 | 9.9935285 | 10.7596292 |
| 7 | 98515.93 | 573959.88 | 582606.17 | 9.9935065 | 10.7588815 |
| 6 | 98510.93 | 572974.16 | 581635.10 | 9.9934844 | 10.7581350 |
| 5 | 98505.92 | 571991.73 | 580667.32 | 9.9934624 | 10.7573897 |
| 4 | 98500.91 | 571012.56 | 579702.80 | 9.9934403 | 10.7566457 |
| 3 | 98495.89 | 570036.63 | 578741.53 | 9.9934181 | 10.7559028 |
| 2 | 98490.86 | 569063.94 | 577783.50 | 9.9933959 | 10.7551611 |
| 1 | 98485.82 | 568094.46 | 576828.67 | 9.9933737 | 10.7544206 |
| 0 | 98480.77 | 567128.18 | 575877.05 | 9.9933515 | 10.7536812 |

10 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 17364.82 | 17632.70 | 101542.67 | 9.2396702 | 9.2463188 |
| 1 | 17393.46 | 17662.69 | 101547.88 | 9.2403861 | 9.2470569 |
| 2 | 17422.11 | 17692.69 | 101553.10 | 9.2411007 | 9.2477939 |
| 3 | 17450.75 | 17722.69 | 101558.33 | 9.2418141 | 9.2485297 |
| 4 | 17479.39 | 17752.69 | 101563.57 | 9.2425264 | 9.2492643 |
| 5 | 17508.03 | 17782.70 | 101568.82 | 9.2432374 | 9.2499978 |
| 6 | 17536.67 | 17812.71 | 101574.08 | 9.2439472 | 9.2507301 |
| 7 | 17565.31 | 17842.72 | 101579.35 | 9.2446558 | 9.2514612 |
| 8 | 17593.95 | 17872.74 | 101584.63 | 9.2453632 | 9.2521912 |
| 9 | 17622.58 | 17902.76 | 101589.92 | 9.2460695 | 9.2529200 |
| 10 | 17651.21 | 17932.78 | 101595.21 | 9.2467746 | 9.2536477 |
| 11 | 17679.84 | 17962.81 | 101600.51 | 9.2474784 | 9.2543743 |
| 12 | 17708.47 | 17992.84 | 101605.82 | 9.2481811 | 9.2550997 |
| 13 | 17737.10 | 18022.87 | 101611.14 | 9.2488827 | 9.2558240 |
| 14 | 17765.73 | 18052.91 | 101616.47 | 9.2495830 | 9.2565472 |
| 15 | 17794.35 | 18082.95 | 101621.81 | 9.2502822 | 9.2572691 |
| 16 | 17822.98 | 18112.99 | 101627.16 | 9.2509803 | 9.2579901 |
| 17 | 17851.60 | 18143.03 | 101632.52 | 9.2516772 | 9.2587099 |
| 18 | 17880.22 | 18173.08 | 101637.89 | 9.2523729 | 9.2594285 |
| 19 | 17908.84 | 18203.13 | 101643.27 | 9.2530675 | 9.2601461 |
| 20 | 17937.46 | 18233.18 | 101648.66 | 9.2537609 | 9.2608625 |
| 21 | 17966.07 | 18263.24 | 101654.06 | 9.2544532 | 9.2615779 |
| 22 | 17994.69 | 18293.30 | 101659.46 | 9.2551444 | 9.2622921 |
| 23 | 18023.30 | 18323.36 | 101664.87 | 9.2558344 | 9.2630053 |
| 24 | 18051.91 | 18353.43 | 101670.29 | 9.2565233 | 9.2637173 |
| 25 | 18080.52 | 18383.50 | 101675.72 | 9.2572110 | 9.2644283 |
| 26 | 18109.13 | 18413.57 | 101681.16 | 9.2578977 | 9.2651382 |
| 27 | 18137.74 | 18443.65 | 101686.61 | 9.2585832 | 9.2658470 |
| 28 | 18166.35 | 18473.73 | 101692.07 | 9.2592676 | 9.2665547 |
| 29 | 18194.95 | 18503.81 | 101697.54 | 9.2599509 | 9.2672613 |
| 30 | 18223.55 | 18533.90 | 101703.02 | 9.2606330 | 9.2679669 |

79 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|-----------|-----------|-----------|------------|
| 60 | 98480.77 | 567128.18 | 575877.05 | 9.9933515 | 10.7536812 |
| 59 | 98475.71 | 566165.09 | 574928.61 | 9.9933292 | 10.7529431 |
| 58 | 98470.65 | 565205.16 | 573983.33 | 9.9933068 | 10.7522061 |
| 57 | 98465.58 | 564248.38 | 573041.21 | 9.9932845 | 10.7514703 |
| 56 | 98460.50 | 563294.74 | 572102.23 | 9.9932621 | 10.7507357 |
| 55 | 98455.41 | 562344.21 | 571166.36 | 9.9932396 | 10.7500022 |
| 54 | 98450.31 | 561396.80 | 570233.60 | 9.9932171 | 10.7492699 |
| 53 | 98445.21 | 560452.47 | 569303.93 | 9.9931946 | 10.7485388 |
| 52 | 98440.10 | 559511.21 | 568377.34 | 9.9931720 | 10.7478088 |
| 51 | 98434.98 | 558573.02 | 567453.80 | 9.9931494 | 10.7470800 |
| 50 | 98429.85 | 557637.86 | 566533.31 | 9.9931268 | 10.7463523 |
| 49 | 98424.71 | 556705.74 | 565615.84 | 9.9931041 | 10.7456257 |
| 48 | 98419.56 | 555776.63 | 564701.40 | 9.9930814 | 10.7449003 |
| 47 | 98414.40 | 554850.52 | 563789.95 | 9.9930587 | 10.7441760 |
| 46 | 98409.24 | 553927.40 | 562881.48 | 9.9930359 | 10.7434528 |
| 45 | 98404.07 | 553007.24 | 561975.99 | 9.9930131 | 10.7427308 |
| 44 | 98398.89 | 552090.05 | 561073.45 | 9.9929902 | 10.7420099 |
| 43 | 98393.70 | 551175.79 | 560173.86 | 9.9929673 | 10.7412901 |
| 42 | 98388.50 | 550264.46 | 559277.19 | 9.9929444 | 10.7405715 |
| 41 | 98383.29 | 549356.04 | 558383.43 | 9.9929214 | 10.7398539 |
| 40 | 98378.08 | 548450.52 | 557492.58 | 9.9928984 | 10.7391375 |
| 39 | 98372.86 | 547547.88 | 556604.60 | 9.9928753 | 10.7384221 |
| 38 | 98367.63 | 546648.12 | 555719.50 | 9.9928522 | 10.7377079 |
| 37 | 98362.39 | 545751.21 | 554837.26 | 9.9928291 | 10.7369947 |
| 36 | 98357.14 | 544857.15 | 553957.86 | 9.9928059 | 10.7362827 |
| 35 | 98351.89 | 543965.92 | 553081.29 | 9.9927827 | 10.7355717 |
| 34 | 98346.63 | 543077.50 | 552207.54 | 9.9927595 | 10.7348618 |
| 33 | 98341.36 | 542191.88 | 551336.59 | 9.9927362 | 10.7341530 |
| 32 | 98336.08 | 541309.06 | 550468.43 | 9.9927129 | 10.7334453 |
| 31 | 98330.79 | 540429.01 | 549603.05 | 9.9926895 | 10.7327387 |
| 30 | 98325.49 | 539551.72 | 548740.43 | 9.9926661 | 10.7320331 |

10 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 18223.55 | 18533.90 | 101703.02 | 9.2606330 | 9.2679669 |
| 31 | 18252.15 | 18563.99 | 101708.51 | 9.2613141 | 9.2686714 |
| 32 | 18280.75 | 18594.08 | 101714.01 | 9.2619941 | 9.2693749 |
| 33 | 18309.35 | 18624.18 | 101719.52 | 9.2626729 | 9.2700772 |
| 34 | 18337.95 | 18654.28 | 101725.04 | 9.2633507 | 9.2707786 |
| 35 | 18366.54 | 18684.38 | 101730.56 | 9.2640274 | 9.2714788 |
| 36 | 18395.13 | 18714.49 | 101736.09 | 9.2647030 | 9.2721780 |
| 37 | 18423.73 | 18744.60 | 101741.63 | 9.2653775 | 9.2728762 |
| 38 | 18452.32 | 18774.71 | 101747.18 | 9.2660509 | 9.2735733 |
| 39 | 18480.91 | 18804.83 | 101752.74 | 9.2667232 | 9.2742694 |
| 40 | 18509.49 | 18834.95 | 101758.31 | 9.2673945 | 9.2749644 |
| 41 | 18538.08 | 18865.07 | 101763.89 | 9.2680647 | 9.2756584 |
| 42 | 18566.66 | 18895.20 | 101769.48 | 9.2687338 | 9.2763514 |
| 43 | 18595.24 | 18925.33 | 101775.08 | 9.2694019 | 9.2770434 |
| 44 | 18623.82 | 18955.46 | 101780.69 | 9.2700689 | 9.2777343 |
| 45 | 18652.40 | 18985.59 | 101786.31 | 9.2707348 | 9.2784242 |
| 46 | 18680.98 | 19015.73 | 101791.94 | 9.2713997 | 9.2791131 |
| 47 | 18709.56 | 19045.87 | 101797.58 | 9.2720635 | 9.2798009 |
| 48 | 18738.13 | 19076.02 | 101803.22 | 9.2727263 | 9.2804878 |
| 49 | 18766.70 | 19106.17 | 101808.87 | 9.2733880 | 9.2811736 |
| 50 | 18795.27 | 19136.32 | 101814.53 | 9.2740487 | 9.2818585 |
| 51 | 18823.84 | 19166.48 | 101820.20 | 9.2747083 | 9.2825423 |
| 52 | 18852.41 | 19196.64 | 101825.88 | 9.2753669 | 9.2832251 |
| 53 | 18880.98 | 19226.80 | 101831.57 | 9.2760245 | 9.2839070 |
| 54 | 18909.54 | 19256.96 | 101837.27 | 9.2766811 | 9.2845878 |
| 55 | 18938.11 | 19287.13 | 101842.98 | 9.2773366 | 9.2852677 |
| 56 | 18966.67 | 19317.30 | 101848.70 | 9.2779911 | 9.2859466 |
| 57 | 18995.23 | 19347.48 | 101854.43 | 9.2786445 | 9.2866245 |
| 58 | 19023.79 | 19377.66 | 101860.17 | 9.2792970 | 9.2873014 |
| 59 | 19052.34 | 19407.84 | 101865.92 | 9.2799484 | 9.2879773 |
| 60 | 19080.90 | 19438.03 | 101871.68 | 9.2805988 | 9.2886523 |

79 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 98325.49 | 539551.72 | 548740.43 | 9.9926661 | 10.7320331 |
| 29 | 98320.18 | 538677.18 | 547880.55 | 9.9926427 | 10.7313286 |
| 28 | 98314.87 | 537805.38 | 547023.42 | 9.9926192 | 10.7306251 |
| 27 | 98309.55 | 536936.30 | 546169.01 | 9.9925957 | 10.7299228 |
| 26 | 98304.22 | 536069.93 | 545317.31 | 9.9925722 | 10.7292214 |
| 25 | 98298.88 | 535206.26 | 544468.31 | 9.9925486 | 10.7285212 |
| 24 | 98293.53 | 534345.27 | 543621.99 | 9.9925250 | 10.7278220 |
| 23 | 98288.17 | 533486.96 | 542778.35 | 9.9925013 | 10.7271238 |
| 22 | 98282.81 | 532631.31 | 541937.37 | 9.9924776 | 10.7264267 |
| 21 | 98277.44 | 531778.30 | 541099.03 | 9.9924539 | 10.7257306 |
| 20 | 98272.06 | 530927.93 | 540263.33 | 9.9924301 | 10.7250356 |
| 19 | 98266.67 | 530080.18 | 539430.26 | 9.9924063 | 10.7243416 |
| 18 | 98261.27 | 529235.05 | 538599.79 | 9.9923824 | 10.7236486 |
| 17 | 98255.87 | 528392.51 | 537771.92 | 9.9923585 | 10.7229566 |
| 16 | 98250.46 | 527552.55 | 536946.64 | 9.9923346 | 10.7222657 |
| 15 | 98245.04 | 526715.17 | 536123.93 | 9.9923106 | 10.7215758 |
| 14 | 98239.61 | 525880.35 | 535303.79 | 9.9922866 | 10.7208869 |
| 13 | 98234.17 | 525048.09 | 534486.20 | 9.9922626 | 10.7201991 |
| 12 | 98228.72 | 524218.36 | 533671.14 | 9.9922385 | 10.7195122 |
| 11 | 98223.27 | 523391.16 | 532858.61 | 9.9922144 | 10.7188264 |
| 10 | 98217.81 | 522566.47 | 532048.60 | 9.9921902 | 10.7181415 |
| 9 | 98212.34 | 521744.28 | 531241.09 | 9.9921660 | 10.7174577 |
| 8 | 98206.86 | 520924.59 | 530436.08 | 9.9921418 | 10.7167749 |
| 7 | 98201.37 | 520107.38 | 529633.54 | 9.9921175 | 10.7160930 |
| 6 | 98195.87 | 519292.64 | 528833.47 | 9.9920932 | 10.7154122 |
| 5 | 98190.36 | 518480.35 | 528035.87 | 9.9920689 | 10.7147323 |
| 4 | 98184.85 | 517670.51 | 527240.70 | 9.9920445 | 10.7140534 |
| 3 | 98179.33 | 516863.11 | 526447.98 | 9.9920201 | 10.7133755 |
| 2 | 98173.80 | 516058.13 | 525657.68 | 9.9919956 | 10.7126986 |
| 1 | 98168.26 | 515255.57 | 524869.79 | 9.9919711 | 10.7120227 |
| 0 | 98162.71 | 514455.40 | 524084.31 | 9.9919466 | 10.7113477 |

.b. I Grad.

| Minut. | Sinus. | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 19080.90 | 19438.03 | 101871.68 | 9.2805988 | 9.2886523 |
| 1 | 19109.45 | 19468.22 | 101877.44 | 9.2812483 | 9.2893263 |
| 2 | 19138.00 | 19498.41 | 101883.21 | 9.2818967 | 9.2899993 |
| 3 | 19166.55 | 19528.61 | 101888.99 | 9.2825441 | 9.2906713 |
| 4 | 19195.10 | 19558.81 | 101894.78 | 9.2831905 | 9.2913424 |
| 5 | 19223.65 | 19589.01 | 101900.58 | 9.2838359 | 9.2920126 |
| 6 | 19252.20 | 19619.22 | 101906.39 | 9.2844803 | 9.2926817 |
| 7 | 19280.74 | 19649.43 | 101912.21 | 9.2851237 | 9.2933500 |
| 8 | 19309.28 | 19679.64 | 101918.04 | 9.2857661 | 9.2940172 |
| 9 | 19337.82 | 19709.86 | 101923.88 | 9.2864076 | 9.2946836 |
| 10 | 19366.36 | 19740.08 | 101929.73 | 9.2870480 | 9.2953489 |
| 11 | 19394.90 | 19770.30 | 101935.59 | 9.2876875 | 9.2960134 |
| 12 | 19423.44 | 19800.53 | 101941.46 | 9.2883260 | 9.2966769 |
| 13 | 19451.97 | 19830.76 | 101947.34 | 9.2889636 | 9.2973395 |
| 14 | 19480.50 | 19861.00 | 101953.23 | 9.2896001 | 9.2980011 |
| 15 | 19509.03 | 19891.24 | 101959.12 | 9.2902357 | 9.2986618 |
| 16 | 19537.56 | 19921.48 | 101965.02 | 9.2908704 | 9.2993216 |
| 17 | 19566.09 | 19951.72 | 101970.93 | 9.2915040 | 9.2999804 |
| 18 | 19594.61 | 19981.97 | 101976.85 | 9.2921367 | 9.3006383 |
| 19 | 19623.14 | 20012.22 | 101982.78 | 9.2927685 | 9.3012954 |
| 20 | 19651.66 | 20042.48 | 101988.72 | 9.2933993 | 9.3019514 |
| 21 | 19680.18 | 20072.74 | 101994.67 | 9.2940291 | 9.3026066 |
| 22 | 19708.70 | 20103.00 | 102000.63 | 9.2946580 | 9.3032609 |
| 23 | 19737.22 | 20133.27 | 102006.60 | 9.2952859 | 9.3039143 |
| 24 | 19765.73 | 20163.54 | 102012.58 | 9.2959129 | 9.3045667 |
| 25 | 19794.25 | 20193.81 | 102018.57 | 6.2965390 | 9.3052183 |
| 26 | 19822.76 | 20224.09 | 102024.57 | 9.2971641 | 9.3058689 |
| 27 | 19851.27 | 20254.37 | 102030.58 | 9.2977883 | 9.3065187 |
| 28 | 19879.78 | 20284.65 | 102036.60 | 9.2984116 | 9.3071675 |
| 29 | 19908.29 | 20314.94 | 102042.63 | 9.2990339 | 9.3078155 |
| 30 | 19936.79 | 20345.23 | 102048.67 | 9.2996553 | 9.3084626 |

78 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|-----------|-----------|-----------|------------|
| 98162.71 | 514455.40 | 524084.31 | 9.9919466 | 10.7113477 |
| 98157.16 | 513657.63 | 523301.21 | 9.9919220 | 10.7106737 |
| 98151.60 | 512862.24 | 522520.50 | 9.9918974 | 10.7100007 |
| 98146.03 | 512069.21 | 521742.16 | 9.9918727 | 10.7093287 |
| 98140.45 | 511278.55 | 520966.18 | 9.9918480 | 10.7086576 |
| 98134.86 | 510490.24 | 520192.54 | 9.9918233 | 10.7079874 |
| 98129.26 | 509704.26 | 519421.25 | 9.9917986 | 10.7073183 |
| 98123.66 | 508920.61 | 518652.28 | 9.9917737 | 10.7066500 |
| 98118.05 | 508139.28 | 517885.63 | 9.9917489 | 10.7059828 |
| 98112.43 | 507360.25 | 517121.28 | 9.9917240 | 10.7053164 |
| 98106.80 | 506583.52 | 516359.24 | 9.9916991 | 10.7046511 |
| 98101.16 | 505809.07 | 515599.48 | 9.9916741 | 10.7039866 |
| 98095.51 | 505036.90 | 514841.99 | 9.9916492 | 10.7033231 |
| 98089.86 | 504267.00 | 514086.77 | 9.9916241 | 10.7026605 |
| 98084.20 | 503499.35 | 513333.81 | 9.9915990 | 10.7019989 |
| 98078.53 | 502733.95 | 512583.09 | 9.9915739 | 10.7013382 |
| 98072.85 | 501970.78 | 511834.61 | 9.9915488 | 10.7006784 |
| 98067.16 | 501209.84 | 511088.35 | 9.9915236 | 10.7000196 |
| 98061.46 | 500451.11 | 510344.31 | 9.9914984 | 10.6993617 |
| 98055.76 | 499694.59 | 509602.48 | 9.9914731 | 10.6987046 |
| 98050.05 | 498940.27 | 508862.84 | 9.9914478 | 10.6980486 |
| 98044.33 | 498188.13 | 508125.39 | 9.9914225 | 10.6973934 |
| 98038.60 | 497438.17 | 507390.12 | 9.9913971 | 10.6967391 |
| 98032.86 | 496690.37 | 506657.01 | 9.9913717 | 10.6960857 |
| 98027.11 | 495944.74 | 505926.06 | 9.9913462 | 10.6954333 |
| 98021.36 | 495201.25 | 505197.26 | 9.9913207 | 10.6947817 |
| 98015.60 | 494459.90 | 504470.60 | 9.9912952 | 10.6941311 |
| 98009.83 | 493720.68 | 503746.07 | 9.9912696 | 10.6934813 |
| 98004.05 | 492983.58 | 503023.67 | 9.9912440 | 10.6928325 |
| 97998.26 | 492248.59 | 502303.37 | 9.9912184 | 10.6921845 |
| 97992.47 | 491515.70 | 501585.17 | 9.9911927 | 10.6915374 |

11 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 19936.79 | 20345.23 | 102048.67 | 9.2996553 | 9.3084626 |
| 31 | 19965.30 | 20375.52 | 102054.71 | 9.3002758 | 9.3091088 |
| 32 | 19993.80 | 20405.82 | 102060.76 | 9.3008953 | 9.3097541 |
| 33 | 20022.30 | 20436.12 | 102066.82 | 9.3015140 | 9.3103985 |
| 34 | 20050.80 | 20466.43 | 102072.89 | 9.3021317 | 9.3110421 |
| 35 | 20079.30 | 20496.74 | 102078.97 | 9.3027485 | 9.3116848 |
| 36 | 20107.79 | 20527.05 | 102085.06 | 9.3033644 | 9.3123266 |
| 37 | 20136.29 | 20557.37 | 102091.16 | 9.3039794 | 9.3129675 |
| 38 | 20164.78 | 20587.69 | 102097.27 | 9.3045934 | 9.3136076 |
| 39 | 20193.27 | 20618.01 | 102103.39 | 9.3052066 | 9.3142468 |
| 40 | 20221.76 | 20648.34 | 102109.52 | 9.3058189 | 9.3148851 |
| 41 | 20250.24 | 20678.67 | 102115.66 | 9.3064303 | 9.3155226 |
| 42 | 20278.73 | 20709.00 | 102121.81 | 9.3070407 | 9.3161592 |
| 43 | 20307.21 | 20739.34 | 102127.97 | 9.3076503 | 9.3167950 |
| 44 | 20335.69 | 20769.68 | 102134.14 | 9.3082590 | 9.3174299 |
| 45 | 20364.17 | 20800.03 | 102140.32 | 9.3088668 | 9.3180640 |
| 46 | 20392.65 | 20830.38 | 102146.50 | 9.3094737 | 9.3186972 |
| 47 | 20421.13 | 20860.73 | 102152.69 | 9.3100798 | 9.3193295 |
| 48 | 20449.61 | 20891.09 | 102158.89 | 9.3106849 | 9.3199611 |
| 49 | 20478.08 | 20921.45 | 102165.10 | 9.3112892 | 9.3205918 |
| 50 | 20506.55 | 20951.81 | 102171.32 | 9.3118926 | 9.3212216 |
| 51 | 20535.02 | 20982.18 | 102177.55 | 9.3124951 | 9.3218506 |
| 52 | 20563.49 | 21012.55 | 102183.79 | 9.3130968 | 9.3224788 |
| 53 | 20591.95 | 21042.93 | 102190.04 | 9.3136976 | 9.3231061 |
| 54 | 20620.42 | 21073.31 | 102196.30 | 9.3142975 | 9.3237327 |
| 55 | 20648.88 | 21103.69 | 102202.57 | 9.3148965 | 9.3243584 |
| 56 | 20677.34 | 21134.07 | 102208.85 | 9.3154947 | 9.3249832 |
| 57 | 20705.80 | 21164.46 | 102215.14 | 9.3160921 | 9.3256073 |
| 58 | 20734.26 | 21194.85 | 102221.44 | 9.3166885 | 9.3262305 |
| 56 | 20762.71 | 21225.25 | 102227.75 | 9.3172841 | 9.3268529 |
| 60 | 20791.17 | 21255.65 | 102234.07 | 9.3178789 | 9.3274745 |

78. Grad.

| Minut. | 78. Grad. | | | Log. Sin. | Log. Tang. |
|--------|-----------|-----------|-----------|-----------|------------|
| | Sinus | Tang. | Secant. | | |
| 30 | 97992.47 | 491515.70 | 501585.17 | 9.9911927 | 10.6915374 |
| 29 | 97986.67 | 490784.91 | 500869.07 | 9.9911670 | 10.6908912 |
| 28 | 97980.86 | 490056.20 | 500155.05 | 9.9911412 | 10.6902459 |
| 27 | 97975.04 | 489329.56 | 499443.11 | 9.9911154 | 10.6896015 |
| 26 | 97969.21 | 488604.99 | 498733.23 | 9.9910896 | 10.6889579 |
| 25 | 97963.37 | 487882.48 | 498025.41 | 9.9910637 | 10.6883152 |
| 24 | 97957.52 | 487162.01 | 497319.64 | 9.9910378 | 10.6876734 |
| 23 | 97951.67 | 486443.59 | 496615.91 | 9.9910119 | 10.6870325 |
| 22 | 97945.81 | 485727.19 | 495914.21 | 9.9909859 | 10.6863924 |
| 21 | 97939.94 | 485012.82 | 495214.53 | 9.9909598 | 10.6857532 |
| 20 | 97934.06 | 484300.45 | 494516.87 | 9.9909338 | 10.6851149 |
| 19 | 97928.17 | 483590.10 | 493821.20 | 9.9909077 | 10.6844774 |
| 18 | 97922.28 | 482881.74 | 493127.54 | 9.9908815 | 10.6838408 |
| 17 | 97916.38 | 482175.36 | 492435.86 | 9.9908553 | 10.6832050 |
| 16 | 97910.47 | 481470.96 | 491746.16 | 9.9908291 | 10.6825701 |
| 15 | 97904.55 | 480768.54 | 491058.44 | 9.9908029 | 10.6819360 |
| 14 | 97898.62 | 480068.08 | 490372.67 | 9.9907766 | 10.6813028 |
| 13 | 97892.68 | 479369.57 | 489688.86 | 9.9907502 | 10.6806705 |
| 12 | 97886.74 | 478673.00 | 489007.00 | 9.9907239 | 10.6800389 |
| 11 | 97880.79 | 477978.37 | 488327.07 | 9.9906974 | 10.6794082 |
| 10 | 97874.83 | 477285.67 | 487649.07 | 9.9906710 | 10.6787784 |
| 9 | 97868.86 | 476594.90 | 486972.99 | 9.9906445 | 10.6781494 |
| 8 | 97862.88 | 475906.03 | 486298.83 | 9.9906180 | 10.6775212 |
| 7 | 97856.89 | 475219.07 | 485626.57 | 9.9905914 | 10.6768939 |
| 6 | 97850.90 | 474534.01 | 484956.21 | 9.9905648 | 10.6762673 |
| 5 | 97844.90 | 473850.83 | 484287.74 | 9.9905382 | 10.6756416 |
| 4 | 97838.89 | 473169.54 | 483621.14 | 9.9905115 | 10.6750168 |
| 3 | 97832.87 | 472490.12 | 482956.43 | 9.9904848 | 10.6743927 |
| 2 | 97826.84 | 471812.56 | 482293.57 | 9.9904580 | 10.6737695 |
| 1 | 97820.80 | 471136.86 | 481632.58 | 9.9904312 | 10.6731471 |
| 0 | 97814.76 | 470463.01 | 480973.43 | 9.9904044 | 10.6725255 |

12 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 20791.17 | 21255.65 | 102234.07 | 9.3178789 | 9.3274745 |
| 20819.62 | 21286.06 | 102240.40 | 9.3184728 | 9.3280973 |
| 20848.07 | 21316.47 | 102246.73 | 9.3190659 | 9.3287193 |
| 20876.52 | 21346.88 | 102253.07 | 9.3196581 | 9.3293345 |
| 20904.97 | 21377.30 | 102259.42 | 9.3202495 | 9.3299528 |
| 20933.41 | 21407.72 | 102265.78 | 9.3208400 | 9.3305704 |
| 20961.86 | 21438.14 | 102272.15 | 9.3214297 | 9.3311872 |
| 20990.30 | 21468.57 | 102278.53 | 9.3220186 | 9.3318031 |
| 21018.74 | 21499.00 | 102284.92 | 9.3226066 | 9.3324183 |
| 21047.18 | 21529.44 | 102291.32 | 9.3231938 | 9.3330327 |
| 21075.61 | 21559.88 | 102297.73 | 9.3237802 | 9.3336463 |
| 21104.05 | 21590.32 | 102304.15 | 9.3243657 | 9.3342591 |
| 21132.48 | 21620.77 | 102310.58 | 9.3249505 | 9.3348711 |
| 21160.91 | 21651.22 | 102317.02 | 9.3255344 | 9.3354822 |
| 21189.34 | 21681.67 | 102323.47 | 9.3261174 | 9.3360927 |
| 21217.77 | 21712.13 | 102329.93 | 9.3266997 | 9.3367024 |
| 21246.19 | 21742.59 | 102336.40 | 9.3272811 | 9.3373111 |
| 21274.62 | 21773.06 | 102342.88 | 9.3278617 | 9.3379191 |
| 21303.04 | 21803.53 | 102349.37 | 9.3284416 | 9.3385267 |
| 21331.46 | 21834.00 | 102355.87 | 9.3290206 | 9.3391333 |
| 21359.88 | 21864.48 | 102362.38 | 9.3295988 | 9.3397391 |
| 21388.29 | 21894.96 | 102368.90 | 9.3301761 | 9.3403441 |
| 21416.71 | 21925.44 | 102375.43 | 9.3307527 | 9.3409484 |
| 21445.12 | 21955.93 | 102381.96 | 9.3313285 | 9.3415519 |
| 21473.53 | 21986.42 | 102388.50 | 9.3319035 | 9.3421545 |
| 21501.94 | 22016.92 | 102395.05 | 9.3324777 | 9.3427565 |
| 21530.35 | 22047.42 | 102401.61 | 9.3330511 | 9.3433574 |
| 21558.76 | 22077.93 | 102408.18 | 9.3336237 | 9.34395 |
| 21587.16 | 22108.44 | 102414.76 | 9.3341955 | 9.34455 |
| 21615.56 | 22138.95 | 102421.35 | 9.3347665 | 9.34515 |
| 21643.96 | 22169.47 | 102427.95 | 9.3353368 | 9.34575 |

77 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 97814.76 | 470463.01 | 480973.43 | 9.9904044 | 10.6725255 |
| 59 | 97808.71 | 469791.00 | 480316.13 | 9.9903775 | 10.6719047 |
| 58 | 97802.65 | 469120.83 | 479660.66 | 9.9903506 | 10.6712847 |
| 57 | 97796.58 | 468452.48 | 479007.02 | 9.9903237 | 10.6706655 |
| 56 | 97790.50 | 467785.95 | 478355.20 | 9.9902967 | 10.6700472 |
| 55 | 97784.41 | 467121.24 | 477705.19 | 9.9902697 | 10.6694296 |
| 54 | 97778.32 | 466458.32 | 477056.99 | 9.9902426 | 10.6688128 |
| 53 | 97772.22 | 465797.21 | 476410.58 | 9.9902155 | 10.6681969 |
| 52 | 97766.11 | 465137.88 | 475765.96 | 9.9901883 | 10.6675817 |
| 51 | 97759.99 | 464480.34 | 475123.12 | 9.9901612 | 10.6669673 |
| 50 | 97753.86 | 463824.57 | 474482.06 | 9.9901339 | 10.6663537 |
| 49 | 97747.73 | 463170.56 | 473842.77 | 9.9901067 | 10.6657409 |
| 48 | 97741.59 | 462518.32 | 473205.23 | 9.9900794 | 10.6651289 |
| 47 | 97735.44 | 461867.83 | 472569.45 | 9.9900521 | 10.6645177 |
| 46 | 97729.28 | 461219.08 | 471935.42 | 9.9900247 | 10.6639073 |
| 45 | 97723.11 | 460572.07 | 471303.13 | 9.9899973 | 10.6632976 |
| 44 | 97716.93 | 459926.80 | 470672.56 | 9.9899698 | 10.6626887 |
| 43 | 97710.75 | 459283.25 | 470043.72 | 9.9899423 | 10.6620806 |
| 42 | 97704.56 | 458641.41 | 469416.60 | 9.9899148 | 10.6614733 |
| 41 | 97698.36 | 458001.29 | 468791.19 | 9.9898873 | 10.6608667 |
| 40 | 97692.15 | 457362.87 | 468167.48 | 9.9898597 | 10.6602609 |
| 39 | 97685.93 | 456726.14 | 467545.48 | 9.9898320 | 10.6596559 |
| 38 | 97679.70 | 456091.11 | 466925.16 | 9.9898043 | 10.6590516 |
| 37 | 97673.47 | 455457.76 | 466306.52 | 9.9897766 | 10.6584481 |
| 36 | 97667.23 | 454826.08 | 465689.56 | 9.9897489 | 10.6578454 |
| 35 | 97660.98 | 454196.08 | 465074.27 | 9.9897211 | 10.6572434 |
| 34 | 97654.72 | 453567.73 | 464460.64 | 9.9896932 | 10.6566422 |
| 33 | 97648.45 | 452941.05 | 463848.67 | 9.9896654 | 10.6560417 |
| 32 | 97642.17 | 452316.01 | 463238.35 | 9.9896374 | 10.6554420 |
| 31 | 97635.89 | 451692.61 | 462629.67 | 9.9896095 | 10.6548430 |
| 30 | 97629.60 | 451070.85 | 462022.63 | 9.9895815 | 10.6542448 |

12 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 21643.96 | 22169.47 | 102427.95 | 9.3353368 | 9.3457552 |
| 31 | 21672.36 | 22199.99 | 102434.56 | 9.3359062 | 9.3463527 |
| 32 | 21700.76 | 22230.51 | 102441.18 | 9.3364749 | 9.3469494 |
| 33 | 21729.15 | 22261.04 | 102447.81 | 9.3370428 | 9.3475454 |
| 34 | 21757.54 | 22291.57 | 102454.45 | 9.3376099 | 9.3481407 |
| 35 | 21785.93 | 22322.11 | 102461.10 | 9.3381762 | 9.3487352 |
| 36 | 21814.32 | 22352.65 | 102467.76 | 9.3387418 | 9.3493290 |
| 37 | 21842.71 | 22383.19 | 102474.43 | 9.3393065 | 9.3499220 |
| 38 | 21871.10 | 22413.74 | 102481.11 | 9.3398706 | 9.3505143 |
| 39 | 21899.48 | 22444.29 | 102487.80 | 9.3404338 | 9.3511059 |
| 40 | 21927.86 | 22474.85 | 102494.49 | 9.3409963 | 9.3516968 |
| 41 | 21956.24 | 22505.41 | 102501.19 | 9.3415580 | 9.3522869 |
| 42 | 21984.62 | 22535.97 | 102507.90 | 9.3421190 | 9.3528763 |
| 43 | 22013.00 | 22566.54 | 102514.62 | 9.3426792 | 9.3534650 |
| 44 | 22041.37 | 22597.11 | 102521.35 | 9.3432386 | 9.3540530 |
| 45 | 22069.74 | 22627.69 | 102528.09 | 9.3437973 | 9.3546402 |
| 46 | 22098.11 | 22658.27 | 102534.84 | 9.3443552 | 9.3552267 |
| 47 | 22126.48 | 22688.85 | 102541.60 | 9.3449124 | 9.3558126 |
| 48 | 22154.85 | 22719.44 | 102548.37 | 9.3454688 | 9.3563977 |
| 49 | 22183.21 | 22750.03 | 102555.15 | 9.3460245 | 9.3569821 |
| 50 | 22211.58 | 22780.63 | 102561.94 | 9.3465794 | 9.3575658 |
| 51 | 22239.94 | 22811.23 | 102568.74 | 9.3471336 | 9.3581487 |
| 52 | 22268.30 | 22841.83 | 102575.55 | 9.3476870 | 9.3587310 |
| 53 | 22296.66 | 22872.44 | 102582.37 | 9.3482397 | 9.3593126 |
| 54 | 22325.01 | 22903.05 | 102589.20 | 9.3487917 | 9.3598935 |
| 55 | 22353.37 | 22933.67 | 102596.04 | 9.3493429 | 9.3604736 |
| 56 | 22381.72 | 22964.29 | 102602.89 | 9.3498934 | 9.3610531 |
| 57 | 22410.07 | 22994.92 | 102609.75 | 9.3504432 | 9.3616319 |
| 58 | 22438.41 | 23025.55 | 102616.62 | 9.3509922 | 9.3622100 |
| 59 | 22466.76 | 23056.18 | 102623.50 | 9.3515405 | 9.3627874 |
| 60 | 22495.11 | 23086.82 | 102630.39 | 9.3520880 | 9.3633641 |

77 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 97629.60 | 451070.85 | 462022.63 | 9.9895815 | 10.6542448 |
| 29 | 97623.30 | 450450.72 | 461417.22 | 9.9895535 | 10.6536473 |
| 28 | 97616.99 | 449832.21 | 460813.43 | 9.9895254 | 10.6530506 |
| 27 | 97610.67 | 449215.32 | 460211.26 | 9.9894973 | 10.6524546 |
| 26 | 97604.35 | 448600.04 | 459610.70 | 9.9894692 | 10.6518593 |
| 25 | 97598.02 | 447986.36 | 459011.74 | 9.9894410 | 10.6512648 |
| 24 | 97591.68 | 447374.28 | 458414.39 | 9.9894128 | 10.6506710 |
| 23 | 97585.33 | 446763.79 | 457818.62 | 9.9893845 | 10.6500780 |
| 22 | 97578.97 | 446154.89 | 457224.44 | 9.9893562 | 10.6494857 |
| 21 | 97572.60 | 445547.56 | 456631.83 | 9.9893279 | 10.6488941 |
| 20 | 97566.23 | 444941.81 | 456040.80 | 9.9892995 | 10.6483032 |
| 19 | 97559.85 | 444337.62 | 455451.34 | 9.9892711 | 10.6477131 |
| 18 | 97553.46 | 443734.99 | 454863.44 | 9.9892427 | 10.6471237 |
| 17 | 97547.06 | 443133.92 | 454277.09 | 9.9892142 | 10.6465350 |
| 16 | 97540.65 | 442534.39 | 453692.29 | 9.9891856 | 10.6459470 |
| 15 | 97534.23 | 441936.41 | 453109.03 | 9.9891571 | 10.6453598 |
| 14 | 97527.81 | 441339.96 | 452527.30 | 9.9891285 | 10.6447733 |
| 13 | 97521.38 | 440745.04 | 451947.11 | 9.9890998 | 10.6441874 |
| 12 | 97514.94 | 440151.64 | 451368.44 | 9.9890711 | 10.6436023 |
| 11 | 97508.49 | 439559.76 | 450791.29 | 9.9890424 | 10.6430179 |
| 10 | 97502.03 | 438969.40 | 450215.65 | 9.9890137 | 10.6424342 |
| 9 | 97495.56 | 438380.54 | 449641.52 | 9.9889849 | 10.6418513 |
| 8 | 97489.09 | 437793.17 | 449068.89 | 9.9889560 | 10.6412690 |
| 7 | 97482.61 | 437207.31 | 448497.75 | 9.9889271 | 10.6406874 |
| 6 | 97476.12 | 436622.93 | 447928.10 | 9.9888982 | 10.6401065 |
| 5 | 97469.62 | 436040.03 | 447359.93 | 9.9888693 | 10.6395264 |
| 4 | 97463.11 | 435458.61 | 446793.24 | 9.9888403 | 10.6389469 |
| 3 | 97456.60 | 434878.66 | 446228.03 | 9.9888113 | 10.6383681 |
| 2 | 97450.08 | 434300.18 | 445664.28 | 9.9887822 | 10.6377900 |
| 1 | 97443.55 | 433723.16 | 445101.98 | 9.9887531 | 10.6372126 |
| 0 | 97437.01 | 433147.59 | 444541.15 | 9.9887239 | 10.6366359 |

13 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 22495.11 | 23086.82 | 102630.39 | 9.3520880 | 9.3633641 |
| 1 | 22523.45 | 23117.46 | 102637.29 | 9.3526349 | 9.3639401 |
| 2 | 22551.79 | 23148.11 | 102644.20 | 9.3531810 | 9.3645155 |
| 3 | 22580.13 | 23178.76 | 102651.12 | 9.3537264 | 9.3650901 |
| 4 | 22608.46 | 23209.41 | 102658.05 | 9.3542710 | 9.3656641 |
| 5 | 22636.80 | 23240.07 | 102664.99 | 9.3548150 | 9.3662374 |
| 6 | 22665.13 | 23270.73 | 102671.94 | 9.3553582 | 9.3668100 |
| 7 | 22693.46 | 23301.40 | 102678.90 | 9.3559007 | 9.3673819 |
| 8 | 22721.79 | 23332.07 | 102685.87 | 9.3564426 | 9.3679532 |
| 9 | 22750.12 | 23362.74 | 102692.84 | 9.3569836 | 9.3685238 |
| 10 | 22778.44 | 23393.42 | 102699.82 | 9.3575240 | 9.3690937 |
| 11 | 22806.77 | 23424.10 | 102706.81 | 9.3580637 | 9.3696629 |
| 12 | 22835.09 | 23454.79 | 102713.81 | 9.3586027 | 9.3702315 |
| 13 | 22863.41 | 23485.48 | 102720.82 | 9.3591409 | 9.3707994 |
| 14 | 22891.72 | 23516.17 | 102727.84 | 9.3596785 | 9.3713667 |
| 15 | 22920.04 | 23546.87 | 102734.87 | 9.3602154 | 9.3719333 |
| 16 | 22948.35 | 23577.58 | 102741.91 | 9.3607515 | 9.3724992 |
| 17 | 22976.66 | 23608.29 | 102748.96 | 9.3612870 | 9.3730645 |
| 18 | 23004.97 | 23639.00 | 102756.02 | 9.3618217 | 9.3736291 |
| 19 | 23033.28 | 23669.72 | 102763.09 | 9.3623558 | 9.3741930 |
| 20 | 23061.59 | 23700.44 | 102770.17 | 9.3628892 | 9.3747563 |
| 21 | 23089.89 | 23731.16 | 102777.26 | 9.3634219 | 9.3753190 |
| 22 | 23118.19 | 23761.89 | 102784.36 | 9.3639539 | 9.3758810 |
| 23 | 23146.49 | 23792.62 | 102791.47 | 9.3644852 | 9.3764423 |
| 24 | 23174.79 | 23823.36 | 102798.59 | 9.3650158 | 9.3770030 |
| 25 | 23203.09 | 23854.10 | 102805.72 | 9.3655458 | 9.3775631 |
| 26 | 23231.38 | 23884.85 | 102812.86 | 9.3660750 | 9.3781225 |
| 27 | 23259.67 | 23915.60 | 102820.01 | 9.3666036 | 9.3786813 |
| 28 | 23287.96 | 23946.35 | 102827.17 | 9.3671315 | 9.3792394 |
| 29 | 23316.25 | 23977.11 | 102834.34 | 9.3676587 | 9.3797969 |
| 30 | 23344.54 | 24007.87 | 102841.52 | 9.3681853 | 9.3803537 |

76 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 97437.01 | 433147.59 | 444541.15 | 9.9887239 | 10.6366359 |
| 59 | 97430.46 | 432573.47 | 443981.76 | 9.9886947 | 10.6360599 |
| 58 | 97423.90 | 432000.79 | 443423.82 | 9.9886655 | 10.6354845 |
| 57 | 97417.34 | 431429.55 | 442867.31 | 9.9886363 | 10.6349099 |
| 56 | 97410.77 | 430859.74 | 442312.24 | 9.9886070 | 10.6343359 |
| 55 | 97404.19 | 430291.36 | 441758.59 | 9.9885776 | 10.6337626 |
| 54 | 97397.60 | 429724.40 | 441206.37 | 9.9885482 | 10.6331900 |
| 53 | 97391.00 | 429158.85 | 440655.56 | 9.9885188 | 10.6326181 |
| 52 | 97384.39 | 428594.72 | 440106.16 | 9.9884894 | 10.6320468 |
| 51 | 97377.78 | 428031.99 | 439558.17 | 9.9884599 | 10.6314762 |
| 50 | 97371.16 | 427470.66 | 439011.58 | 9.9884303 | 10.6309063 |
| 49 | 97364.53 | 426910.72 | 438466.38 | 9.9884008 | 10.6303371 |
| 48 | 97357.89 | 426352.18 | 437922.57 | 9.9883712 | 10.6297685 |
| 47 | 97351.24 | 425795.01 | 437380.15 | 9.9883415 | 10.6292006 |
| 46 | 97344.58 | 425239.23 | 436839.10 | 9.9883118 | 10.6286333 |
| 45 | 97337.92 | 424684.82 | 436299.43 | 9.9882821 | 10.6280667 |
| 44 | 97331.25 | 424131.77 | 435761.13 | 9.9882523 | 10.6275008 |
| 43 | 97324.57 | 423580.09 | 435224.19 | 9.9882225 | 10.6269355 |
| 42 | 97317.88 | 423029.77 | 434688.61 | 9.9881927 | 10.6263709 |
| 41 | 97311.18 | 422480.80 | 434154.38 | 9.9881628 | 10.6258070 |
| 40 | 97304.48 | 421933.18 | 433621.50 | 9.9881329 | 10.6252437 |
| 39 | 97297.77 | 421386.90 | 433089.96 | 9.9881029 | 10.6246810 |
| 38 | 97291.05 | 420841.96 | 432559.77 | 9.9880729 | 10.6241190 |
| 37 | 97284.32 | 420298.35 | 432030.90 | 9.9880429 | 10.6235577 |
| 36 | 97277.58 | 419756.06 | 431503.36 | 9.9880128 | 10.6229970 |
| 35 | 97270.84 | 419215.10 | 430977.15 | 9.9879827 | 10.6224369 |
| 34 | 97264.09 | 418675.46 | 430452.25 | 9.9879525 | 10.6218775 |
| 33 | 97257.33 | 418137.13 | 429928.67 | 9.9879223 | 10.6213187 |
| 32 | 97250.56 | 417600.11 | 429406.40 | 9.9878921 | 10.6207606 |
| 31 | 97243.78 | 417064.40 | 428885.43 | 9.9878618 | 10.6202031 |
| 30 | 97236.99 | 416529.98 | 428365.76 | 9.9878315 | 10.6296463 |

13 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 23344.54 | 24007.87 | 102841.52 | 9.3681853 | 9.3803537 |
| 1 | 23372.82 | 24038.64 | 102848.71 | 9.3687111 | 9.3809100 |
| 2 | 23401.10 | 24069.41 | 102855.91 | 9.3692363 | 9.3814655 |
| 3 | 23429.38 | 24100.19 | 102863.12 | 9.3697608 | 9.3820205 |
| 4 | 23457.66 | 24130.97 | 102870.34 | 9.3702847 | 9.3825748 |
| 5 | 23485.94 | 24161.76 | 102877.57 | 9.3708079 | 9.3831285 |
| 6 | 23514.21 | 24192.55 | 102884.81 | 9.3713304 | 9.3836816 |
| 7 | 23542.48 | 24223.34 | 102892.06 | 9.3718523 | 9.3842340 |
| 8 | 23570.75 | 24254.14 | 102899.32 | 9.3723735 | 9.3847858 |
| 9 | 23599.02 | 24284.94 | 102906.58 | 9.3728940 | 9.3853370 |
| 0 | 23627.29 | 24315.75 | 102913.85 | 9.3734139 | 9.3858876 |
| 1 | 23655.55 | 24346.56 | 102921.13 | 9.3739331 | 9.3864376 |
| 2 | 23683.81 | 24377.37 | 102928.42 | 9.3744517 | 9.3869869 |
| 3 | 23712.07 | 24408.19 | 102935.72 | 9.3749696 | 9.3875356 |
| 4 | 23740.33 | 24439.01 | 102943.03 | 9.3754868 | 9.3880837 |
| 5 | 23768.59 | 24469.84 | 102950.35 | 9.3760034 | 9.3886312 |
| 6 | 23796.84 | 24500.67 | 102957.68 | 9.3765194 | 9.3891781 |
| 7 | 23825.10 | 24531.51 | 102965.02 | 9.3770347 | 9.3897244 |
| 8 | 23853.35 | 24562.35 | 102972.37 | 9.3775493 | 9.3902700 |
| 9 | 23881.59 | 24593.20 | 102979.73 | 9.3780633 | 9.3908151 |
| 0 | 23909.84 | 24624.05 | 102987.10 | 9.3785767 | 9.3913595 |
| 1 | 23938.08 | 24654.91 | 102994.48 | 9.3790894 | 9.3919034 |
| 2 | 23966.33 | 24685.77 | 103001.87 | 9.3796015 | 9.3924466 |
| 3 | 23994.57 | 24716.63 | 103009.27 | 9.3801129 | 9.3929893 |
| 4 | 24022.80 | 24747.50 | 103016.68 | 9.3806237 | 9.3935313 |
| 5 | 24051.04 | 24778.37 | 103024.10 | 9.3811339 | 9.3940727 |
| 6 | 24079.27 | 24809.25 | 103031.53 | 9.3816434 | 9.3946136 |
| 7 | 24107.51 | 24840.13 | 103038.97 | 9.3821523 | 9.3951538 |
| 8 | 24135.74 | 24871.02 | 103046.42 | 9.3826605 | 9.3956935 |
| 9 | 24163.96 | 24901.91 | 103053.88 | 9.3831682 | 9.3962326 |
| 0 | 24192.19 | 24932.80 | 103061.35 | 9.3836752 | 9.3967711 |

76 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 0 | 97236.99 | 416529.98 | 428365.76 | 9.9878315 | 10.6196463 |
| 1 | 97230.19 | 415996.85 | 427847.38 | 9.9878012 | 10.6190900 |
| 2 | 97223.39 | 415465.01 | 427330.29 | 9.9877708 | 10.6185345 |
| 3 | 97216.58 | 414934.46 | 426814.49 | 9.9877404 | 10.6179795 |
| 4 | 97209.76 | 414405.19 | 426299.96 | 9.9877099 | 10.6174252 |
| 5 | 97202.93 | 413877.19 | 425786.71 | 9.9876794 | 10.6168715 |
| 6 | 97196.09 | 413350.46 | 425274.74 | 9.9876488 | 10.6163184 |
| 7 | 97189.25 | 412824.99 | 424764.02 | 9.9876183 | 10.6157660 |
| 8 | 97182.40 | 412300.79 | 424254.57 | 9.9875876 | 10.6152142 |
| 9 | 97175.54 | 411777.84 | 423746.37 | 9.9875570 | 10.6146630 |
| 10 | 97168.67 | 411256.14 | 423239.43 | 9.9875263 | 10.6141124 |
| 11 | 97161.79 | 410735.69 | 422733.73 | 9.9874955 | 10.6135624 |
| 12 | 97154.91 | 410216.49 | 422229.28 | 9.9874648 | 10.6130131 |
| 13 | 97148.02 | 409698.52 | 421726.06 | 9.9874339 | 10.6124664 |
| 14 | 97141.12 | 409181.78 | 421224.08 | 9.9874031 | 10.6119163 |
| 15 | 97134.21 | 408666.27 | 420723.33 | 9.9873722 | 10.6113688 |
| 16 | 97127.29 | 408151.99 | 420223.80 | 9.9873413 | 10.6108219 |
| 17 | 97120.36 | 407638.92 | 419725.49 | 9.9873103 | 10.6102756 |
| 18 | 97113.43 | 407127.07 | 419228.40 | 9.9872793 | 10.6097300 |
| 19 | 97106.49 | 406616.43 | 418732.52 | 9.9872482 | 10.6091849 |
| 20 | 97099.54 | 406107.00 | 418237.85 | 9.9872171 | 10.6086405 |
| 21 | 97092.58 | 405598.77 | 417744.38 | 9.9871860 | 10.6080966 |
| 22 | 97085.61 | 405091.74 | 417252.10 | 9.9871549 | 10.6075534 |
| 23 | 97078.63 | 404585.90 | 416761.02 | 9.9871236 | 10.6070107 |
| 24 | 97071.65 | 404081.25 | 416271.14 | 9.9870924 | 10.6064687 |
| 25 | 97064.66 | 403577.79 | 415782.43 | 9.9870611 | 10.6059273 |
| 26 | 97057.66 | 403075.50 | 415294.91 | 9.9870298 | 10.6053864 |
| 27 | 97050.65 | 402574.40 | 414808.56 | 9.9869984 | 10.6048462 |
| 28 | 97043.63 | 402074.46 | 414323.39 | 9.9869670 | 10.6043065 |
| 29 | 97036.60 | 401575.70 | 413839.39 | 9.9869356 | 10.6037674 |
| 30 | 97029.57 | 401078.09 | 413356.55 | 9.9869041 | 10.6032289 |

14 Grad.

| Sinus | Tang. | Secant. | Log. Sin | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 24192.19 | 24932.80 | 103061.35 | 9.3836752 | 9.3967711 |
| 24220.41 | 24963.70 | 103068.83 | 9.3841815 | 9.3973089 |
| 24248.63 | 24994.60 | 103076.32 | 9.3846873 | 9.3978463 |
| 24276.85 | 25025.51 | 103083.82 | 9.3851924 | 9.3983830 |
| 24305.07 | 25056.42 | 103091.33 | 9.3856969 | 9.3989191 |
| 24333.29 | 25087.34 | 103098.85 | 9.3862008 | 9.3994547 |
| 24361.50 | 25118.26 | 103106.38 | 9.3867040 | 9.3999896 |
| 24389.71 | 25149.19 | 103113.92 | 9.3872067 | 9.4005240 |
| 24417.92 | 25180.12 | 103121.47 | 9.3877087 | 9.4010578 |
| 24446.13 | 25211.06 | 103129.03 | 9.3882101 | 9.4015910 |
| 24474.33 | 25242.00 | 103136.60 | 9.3887109 | 9.4021237 |
| 24502.54 | 25272.94 | 103144.18 | 9.3892111 | 9.4026558 |
| 24530.74 | 25303.89 | 103151.77 | 9.3897106 | 9.4031873 |
| 24558.94 | 25334.84 | 103159.36 | 9.3902096 | 9.4037182 |
| 24587.13 | 25365.80 | 103166.97 | 9.3907079 | 9.4042486 |
| 24615.33 | 25396.76 | 103174.59 | 9.3912057 | 9.4047784 |
| 24643.52 | 25427.73 | 103182.22 | 9.3917028 | 9.4053076 |
| 24671.71 | 25458.70 | 103189.85 | 9.3921993 | 9.4058363 |
| 24699.90 | 25489.68 | 103197.50 | 9.3926952 | 9.4063644 |
| 24728.09 | 25520.66 | 103205.16 | 9.3931905 | 9.4068919 |
| 24756.27 | 25551.65 | 103212.82 | 9.3936852 | 9.4074189 |
| 24784.45 | 25582.64 | 103220.50 | 9.3941794 | 9.4079453 |
| 24812.63 | 25613.63 | 103228.18 | 9.3946729 | 9.4084712 |
| 24840.81 | 25644.63 | 103235.88 | 9.3951658 | 9.4089965 |
| 24868.99 | 25675.63 | 103243.59 | 9.3956581 | 9.4095212 |
| 24897.16 | 25706.64 | 103251.30 | 9.3961499 | 9.4100454 |
| 24925.33 | 25737.66 | 103259.03 | 9.3966410 | 9.4105690 |
| 24953.50 | 25768.68 | 103266.76 | 9.3971315 | 9.4110921 |
| 24981.67 | 25799.70 | 103274.51 | 9.3976215 | 9.4116146 |
| 25009.84 | 25830.73 | 103282.27 | 9.3981109 | 9.4121366 |
| 25038.00 | 25861.76 | 103290.03 | 9.3985996 | 9.4126581 |

75 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 97029.57 | 401078.09 | 413356.55 | 9.9869041 | 10.6032285 |
| 59 | 97022.53 | 400581.65 | 412874.87 | 9.9868726 | 10.6026911 |
| 58 | 97015.48 | 400086.36 | 412394.35 | 9.9868410 | 10.6021537 |
| 57 | 97008.42 | 399592.23 | 411914.98 | 9.9868094 | 10.6016170 |
| 56 | 97001.35 | 399099.24 | 411436.75 | 9.9867778 | 10.6010805 |
| 55 | 96994.28 | 398607.39 | 410959.67 | 9.9867461 | 10.6005453 |
| 54 | 96987.20 | 398116.69 | 410483.74 | 9.9867144 | 10.6000104 |
| 53 | 96980.11 | 397627.12 | 410008.93 | 9.9866827 | 10.5994760 |
| 52 | 96973.01 | 397138.68 | 409535.26 | 9.9866509 | 10.5989422 |
| 51 | 96965.90 | 396651.37 | 409062.72 | 9.9866191 | 10.5984090 |
| 50 | 96958.79 | 396165.18 | 408591.30 | 9.9865872 | 10.5978763 |
| 49 | 96951.67 | 395680.11 | 408121.00 | 9.9865553 | 10.5973442 |
| 48 | 96944.54 | 395196.15 | 407651.81 | 9.9865233 | 10.5968127 |
| 47 | 96937.40 | 394713.31 | 407183.74 | 9.9864913 | 10.5962818 |
| 46 | 96930.25 | 394231.57 | 406716.77 | 9.9864593 | 10.5957514 |
| 45 | 96923.09 | 393750.94 | 406250.91 | 9.9864273 | 10.5952216 |
| 44 | 96915.92 | 393271.41 | 405786.15 | 9.9863952 | 10.5946924 |
| 43 | 96908.75 | 392792.97 | 405322.49 | 9.9863630 | 10.5941637 |
| 42 | 96901.57 | 392315.63 | 404859.92 | 9.9863308 | 10.5936356 |
| 41 | 96894.38 | 391839.37 | 404398.44 | 9.9862986 | 10.5931081 |
| 40 | 96887.18 | 391364.20 | 403938.04 | 9.9862663 | 10.5925811 |
| 39 | 96879.98 | 390890.11 | 403478.72 | 9.9862340 | 10.5920547 |
| 38 | 96872.77 | 390417.10 | 403020.48 | 9.9862017 | 10.5915288 |
| 37 | 96865.55 | 389945.16 | 402563.32 | 9.9861693 | 10.5910034 |
| 36 | 96858.32 | 389474.29 | 402107.22 | 9.9861369 | 10.5904788 |
| 35 | 96851.08 | 389004.48 | 401652.19 | 9.9861045 | 10.5899548 |
| 34 | 96843.83 | 388535.74 | 401198.23 | 9.9860720 | 10.5894316 |
| 33 | 96836.57 | 388068.05 | 400745.32 | 9.9860394 | 10.5889091 |
| 32 | 96829.31 | 387601.42 | 400293.47 | 9.9860069 | 10.5883872 |
| 31 | 96822.04 | 387135.84 | 399842.67 | 9.9859742 | 10.5878663 |
| 30 | 96814.76 | 386671.31 | 399392.92 | 9.9859416 | 10.5873461 |

14 Grad.

| Sinus | Tang. | Secant. | Log. Sin | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 24192.19 | 24932.80 | 103061.35 | 9.3836752 | 9.3967711 |
| 24220.41 | 24963.70 | 103068.83 | 9.3841815 | 9.3973089 |
| 24248.63 | 24994.60 | 103076.32 | 9.3846873 | 9.3978463 |
| 24276.85 | 25025.51 | 103083.82 | 9.3851924 | 9.3983830 |
| 24305.07 | 25056.42 | 103091.33 | 9.3856969 | 9.3989191 |
| 24333.29 | 25087.34 | 103098.85 | 9.3862008 | 9.3994547 |
| 24361.50 | 25118.26 | 103106.38 | 9.3867040 | 9.3999896 |
| 24389.71 | 25149.19 | 103113.92 | 9.3872067 | 9.4005240 |
| 24417.92 | 25180.12 | 103121.47 | 9.3877087 | 9.4010578 |
| 24446.13 | 25211.06 | 103129.03 | 9.3882101 | 9.4015910 |
| 24474.33 | 25242.00 | 103136.60 | 9.3887109 | 9.4021237 |
| 24502.54 | 25272.94 | 103144.18 | 9.3892111 | 9.4026558 |
| 24530.74 | 25303.89 | 103151.77 | 9.3897106 | 9.4031873 |
| 24558.94 | 25334.84 | 103159.36 | 9.3902096 | 9.4037182 |
| 24587.13 | 25365.80 | 103166.97 | 9.3907079 | 9.4042486 |
| 24615.33 | 25396.76 | 103174.59 | 9.3912057 | 9.4047784 |
| 24643.52 | 25427.73 | 103182.22 | 9.3917028 | 9.4053076 |
| 24671.71 | 25458.70 | 103189.85 | 9.3921993 | 9.4058363 |
| 24699.90 | 25489.68 | 103197.50 | 9.3926952 | 9.4063644 |
| 24728.09 | 25520.66 | 103205.16 | 9.3931905 | 9.4068919 |
| 24756.27 | 25551.65 | 103212.82 | 9.3936852 | 9.4074189 |
| 24784.45 | 25582.64 | 103220.50 | 9.3941794 | 9.4079453 |
| 24812.63 | 25613.63 | 103228.18 | 9.3946729 | 9.4084712 |
| 24840.81 | 25644.63 | 103235.88 | 9.3951658 | 9.4089965 |
| 24868.99 | 25675.63 | 103243.59 | 9.3956581 | 9.4095212 |
| 24897.16 | 25706.64 | 103251.30 | 9.3961499 | 9.4100454 |
| 24925.33 | 25737.66 | 103259.03 | 9.3966410 | 9.4105690 |
| 24953.50 | 25768.68 | 103266.76 | 9.3971315 | 9.4110921 |
| 24981.67 | 25799.70 | 103274.51 | 9.3976215 | 9.4116146 |
| 25009.84 | 25830.73 | 103282.27 | 9.3981109 | 9.4121366 |
| 25038.00 | 25861.76 | 103290.03 | 9.3985996 | 9.4126581 |

75 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|------------|-----------|-----------|------------|
| 60 | 97029.57 | 401078.09 | 413356.55 | 9.9869041 | 10.6032289 |
| 59 | 97022.53 | 4009581.65 | 412874.87 | 9.9868726 | 10.6026911 |
| 58 | 97015.48 | 400086.36 | 412394.35 | 9.9868410 | 10.6021537 |
| 57 | 97008.42 | 399592.23 | 411914.98 | 9.9868094 | 10.6016170 |
| 56 | 97001.35 | 399099.24 | 411436.75 | 9.9867778 | 10.6010809 |
| 55 | 96994.28 | 398607.39 | 410959.67 | 9.9867461 | 10.6005452 |
| 54 | 96987.20 | 398116.69 | 410483.74 | 9.9867144 | 10.6000104 |
| 53 | 96980.11 | 397627.12 | 410008.93 | 9.9866827 | 10.5994760 |
| 52 | 96973.01 | 397138.68 | 409535.26 | 9.9866509 | 10.5989422 |
| 51 | 96965.90 | 396651.37 | 409062.72 | 9.9866191 | 10.5984090 |
| 50 | 96958.79 | 396165.18 | 408591.30 | 9.9865872 | 10.5978762 |
| 49 | 96951.67 | 395680.11 | 408121.00 | 9.9865553 | 10.5973442 |
| 48 | 96944.54 | 395196.15 | 407651.81 | 9.9865233 | 10.5968127 |
| 47 | 96937.40 | 394713.31 | 407183.74 | 9.9864913 | 10.5962818 |
| 46 | 96930.25 | 394231.57 | 406716.77 | 9.9864593 | 10.5957514 |
| 45 | 96923.09 | 393750.94 | 406250.91 | 9.9864273 | 10.5952216 |
| 44 | 96915.92 | 393271.41 | 405786.15 | 9.9863952 | 10.5946924 |
| 43 | 96908.75 | 392792.97 | 405322.49 | 9.9863630 | 10.5941637 |
| 42 | 96901.57 | 392315.63 | 404859.92 | 9.9863308 | 10.5936356 |
| 41 | 96894.38 | 391839.37 | 404398.44 | 9.9862986 | 10.5931081 |
| 40 | 96887.18 | 391364.20 | 403938.04 | 9.9862663 | 10.5925811 |
| 39 | 96879.98 | 390890.11 | 403478.72 | 9.9862340 | 10.5920547 |
| 38 | 96872.77 | 390417.10 | 403020.48 | 9.9862017 | 10.5915288 |
| 37 | 96865.55 | 389945.16 | 402563.32 | 9.9861693 | 10.5910035 |
| 36 | 96858.32 | 389474.29 | 402107.22 | 9.9861369 | 10.5904788 |
| 35 | 96851.08 | 389004.48 | 401652.19 | 9.9861045 | 10.5899546 |
| 34 | 96843.83 | 388535.74 | 401198.23 | 9.9860720 | 10.5894310 |
| 33 | 96836.57 | 388068.05 | 400745.32 | 9.9860394 | 10.5889075 |
| 32 | 96829.31 | 387601.42 | 400293.47 | 9.9860069 | 10.5883854 |
| 31 | 96822.04 | 387135.84 | 399842.67 | 9.9859742 | 10.5878634 |
| 30 | 96814.76 | 386671.31 | 399392.92 | 9.9859416 | 10.5873415 |

14 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 25038.00 | 25861.76 | 103290.03 | 9.3985996 | 9.4126581 |
| 25066.16 | 25892.80 | 103297.81 | 9.3990878 | 9.4131789 |
| 25094.32 | 25923.84 | 103305.59 | 9.3995754 | 9.4136993 |
| 25122.48 | 25954.88 | 103313.39 | 9.4000625 | 9.4142191 |
| 25150.63 | 25985.93 | 103321.19 | 9.4005489 | 9.4147383 |
| 25178.79 | 26016.99 | 103329.01 | 9.4010348 | 9.4152570 |
| 25206.94 | 26048.05 | 103336.83 | 9.4015201 | 9.4157752 |
| 25235.08 | 26079.11 | 103344.67 | 9.4020048 | 9.4162928 |
| 25263.23 | 26110.18 | 103352.51 | 9.4024889 | 9.4168099 |
| 25291.37 | 26141.26 | 103360.37 | 9.4029734 | 9.4173265 |
| 25319.52 | 26172.34 | 103368.23 | 9.4034554 | 9.4178425 |
| 25347.66 | 26203.42 | 103376.11 | 9.4039378 | 9.4183580 |
| 25375.79 | 26234.51 | 103383.99 | 9.4044196 | 9.4188729 |
| 25403.93 | 26265.60 | 103391.88 | 9.4049009 | 9.4193874 |
| 25432.06 | 26296.70 | 103399.79 | 9.4053816 | 9.4199013 |
| 25460.19 | 26327.80 | 103407.70 | 9.4058617 | 9.4204146 |
| 25488.32 | 26358.91 | 103415.63 | 9.4063413 | 9.4209275 |
| 25516.45 | 26390.02 | 103423.56 | 9.4068203 | 9.4214398 |
| 25544.58 | 26421.14 | 103431.51 | 9.4072987 | 9.4219515 |
| 25572.70 | 26452.26 | 103439.46 | 9.4077766 | 9.4224628 |
| 25600.82 | 26483.39 | 103447.43 | 9.4082539 | 9.4229735 |
| 25628.94 | 26514.52 | 103455.40 | 9.4087306 | 9.4234838 |
| 25657.05 | 26545.66 | 103463.38 | 9.4092068 | 9.4239935 |
| 25685.17 | 26576.80 | 103471.38 | 9.4096824 | 9.4245026 |
| 25713.28 | 26607.94 | 103479.38 | 9.4101575 | 9.4250113 |
| 25741.39 | 26639.09 | 103487.40 | 9.4106320 | 9.4255194 |
| 25769.50 | 26670.25 | 103495.42 | 9.4111059 | 9.4260271 |
| 25797.60 | 26701.41 | 103503.46 | 9.4115793 | 9.4265342 |
| 25825.70 | 26732.57 | 103511.50 | 9.4120522 | 9.4270408 |
| 25853.81 | 26763.74 | 103519.55 | 9.4125245 | 9.4275469 |
| 25881.90 | 26794.92 | 103527.62 | 9.4129962 | 9.4280525 |

75 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 96814.76 | 386671.31 | 399392.92 | 9.9859416 | 10.5873419 |
| 29 | 96807.47 | 386207.82 | 398944.21 | 9.9859089 | 10.5868211 |
| 28 | 96800.18 | 385745.37 | 398496.54 | 9.9858762 | 10.5863007 |
| 27 | 96792.88 | 385283.96 | 398049.91 | 9.9858434 | 10.5857809 |
| 26 | 96785.57 | 384823.58 | 397604.31 | 9.9858106 | 10.5852617 |
| 25 | 96778.25 | 384364.24 | 397159.75 | 9.9857777 | 10.5847430 |
| 24 | 96770.92 | 383905.91 | 396716.21 | 9.9857449 | 10.5842248 |
| 23 | 96763.58 | 383448.61 | 396273.69 | 9.9857119 | 10.5837072 |
| 22 | 96756.23 | 382992.33 | 395832.19 | 9.9856790 | 10.5831901 |
| 21 | 96748.88 | 382537.07 | 395391.71 | 9.9856460 | 10.5826735 |
| 20 | 96741.52 | 382082.81 | 394952.24 | 9.9856129 | 10.5821575 |
| 19 | 96734.15 | 381629.57 | 394513.79 | 9.9855798 | 10.5816420 |
| 18 | 96726.77 | 381177.33 | 394076.33 | 9.9855467 | 10.5811271 |
| 17 | 96719.38 | 380726.06 | 393639.88 | 9.9855135 | 10.5806126 |
| 16 | 96711.99 | 380275.85 | 393204.43 | 9.9854803 | 10.5800987 |
| 15 | 96704.59 | 379826.61 | 392769.97 | 9.9854471 | 10.5795854 |
| 14 | 96697.18 | 379378.35 | 392336.51 | 9.9854138 | 10.5790725 |
| 13 | 96689.76 | 378931.09 | 391904.03 | 9.9853805 | 10.5785602 |
| 12 | 96682.33 | 378484.81 | 391472.54 | 9.9853471 | 10.5780485 |
| 11 | 96674.90 | 378039.51 | 391042.03 | 9.9853138 | 10.5775372 |
| 10 | 96667.46 | 377595.19 | 390612.50 | 9.9852803 | 10.5770265 |
| 9 | 96660.01 | 377151.85 | 390183.95 | 9.9852468 | 10.5765162 |
| 8 | 96652.55 | 376709.47 | 389756.37 | 9.9852133 | 10.5760065 |
| 7 | 96645.08 | 376268.07 | 389329.76 | 9.9851798 | 10.5754974 |
| 6 | 96637.60 | 375827.63 | 388904.11 | 9.9851462 | 10.5749887 |
| 5 | 96630.12 | 375388.15 | 388479.43 | 9.9851125 | 10.5744806 |
| 4 | 96622.63 | 374949.63 | 388055.70 | 9.9850789 | 10.5739729 |
| 3 | 96615.13 | 374512.07 | 387632.93 | 9.9850452 | 10.5734658 |
| 2 | 96607.62 | 374075.46 | 387211.12 | 9.9850114 | 10.5729592 |
| 1 | 96600.10 | 373639.80 | 386790.25 | 9.9849776 | 10.5724531 |
| 0 | 96592.58 | 373205.08 | 386370.33 | 9.9849438 | 10.5719475 |

15 Grad.

Minut

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 25881.90 | 26794.92 | 103527.62 | 9.4129962 | 9.4280525 |
| 1 | 25910.00 | 26826.10 | 103535.69 | 9.4134674 | 9.4285575 |
| 2 | 25938.10 | 26857.28 | 103543.78 | 9.4139381 | 9.4290621 |
| 3 | 25966.19 | 26888.47 | 103551.87 | 9.4144082 | 9.4295661 |
| 4 | 25994.28 | 26919.67 | 103559.98 | 9.4148778 | 9.4300697 |
| 5 | 26022.37 | 26950.87 | 103568.09 | 9.4153468 | 9.4305727 |
| 6 | 26050.45 | 26982.07 | 103576.21 | 9.4158152 | 9.4310753 |
| 7 | 26078.53 | 27013.28 | 103584.35 | 9.4162832 | 9.4315773 |
| 8 | 26106.61 | 27044.49 | 103592.49 | 9.4167506 | 9.4320789 |
| 9 | 26134.66 | 27075.71 | 103600.65 | 9.4172174 | 9.4325799 |
| 10 | 26162.77 | 27106.93 | 103608.81 | 9.4176837 | 9.4330804 |
| 11 | 26190.85 | 27138.16 | 103616.99 | 9.4181495 | 9.4335805 |
| 12 | 26218.92 | 27169.40 | 103625.17 | 9.4186148 | 9.4340800 |
| 13 | 26246.99 | 27200.64 | 103633.37 | 9.4190795 | 9.4345791 |
| 14 | 26275.06 | 27231.88 | 103641.57 | 9.4195436 | 9.4350776 |
| 15 | 26303.12 | 27263.13 | 103649.79 | 9.4200073 | 9.4355757 |
| 16 | 26331.18 | 27294.28 | 103658.01 | 9.4204704 | 9.4360733 |
| 17 | 26359.24 | 27325.64 | 103666.25 | 9.4209330 | 9.4365704 |
| 18 | 26387.30 | 27356.90 | 103674.49 | 9.4213950 | 9.4370670 |
| 19 | 26415.36 | 27388.17 | 103682.75 | 9.4218566 | 9.4375631 |
| 20 | 26443.42 | 27419.44 | 103691.01 | 9.4223176 | 9.4380587 |
| 21 | 26471.47 | 27450.72 | 103699.29 | 9.4227780 | 9.4385538 |
| 22 | 26499.52 | 27482.01 | 103707.57 | 9.4232380 | 9.4390485 |
| 23 | 26527.57 | 27513.30 | 103715.87 | 9.4236974 | 9.4395426 |
| 24 | 26555.61 | 27544.59 | 103724.17 | 9.4241563 | 9.4400363 |
| 25 | 26583.65 | 27575.89 | 103732.49 | 9.4246147 | 9.4405295 |
| 26 | 26611.69 | 27607.19 | 103740.82 | 9.4250726 | 9.4410222 |
| 27 | 26639.73 | 27638.50 | 103749.15 | 9.4255299 | 9.4415145 |
| 28 | 26667.77 | 27669.81 | 103757.50 | 9.4259867 | 9.4420062 |
| 29 | 26695.81 | 27701.13 | 103765.85 | 9.4264430 | 9.4424975 |
| 30 | 26723.84 | 27732.45 | 103774.22 | 9.4268988 | 9.4429883 |

74 Grad.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---|----------|-----------|-----------|-----------|------------|
| 0 | 96592.58 | 373205.08 | 386370.33 | 9.9849438 | 10.5719475 |
| 9 | 96585.05 | 372771.31 | 385951.35 | 9.9849099 | 10.5714425 |
| 8 | 96577.51 | 372338.47 | 385533.32 | 9.9848760 | 10.5709379 |
| 7 | 96569.96 | 371906.58 | 385116.22 | 9.9848420 | 10.5704339 |
| 6 | 96562.40 | 371475.61 | 384700.05 | 9.9848081 | 10.5699303 |
| 5 | 96554.83 | 371045.58 | 384284.82 | 9.9847740 | 10.5694273 |
| 4 | 96547.26 | 370616.48 | 383870.51 | 9.9847400 | 10.5689247 |
| 3 | 96539.68 | 370188.30 | 383457.13 | 9.9847059 | 10.5684227 |
| 2 | 96532.09 | 369761.03 | 383044.67 | 9.9846717 | 10.5679211 |
| 1 | 96524.49 | 369334.69 | 382633.13 | 9.9846375 | 10.5674201 |
| 0 | 96516.88 | 368909.27 | 382222.51 | 9.9846033 | 10.5669196 |
| 9 | 96509.27 | 368484.75 | 381812.80 | 9.9845690 | 10.5664195 |
| 8 | 96501.65 | 368061.15 | 381403.99 | 9.9845347 | 10.5659200 |
| 7 | 96494.02 | 367638.45 | 380996.10 | 9.9845004 | 10.5654209 |
| 6 | 96486.38 | 367216.65 | 380589.11 | 9.9844660 | 10.5649224 |
| 5 | 96478.73 | 366795.75 | 380183.01 | 9.9844316 | 10.5644243 |
| 4 | 96471.07 | 366375.75 | 379777.82 | 9.9843971 | 10.5639267 |
| 3 | 96463.41 | 365956.65 | 379373.52 | 9.9843626 | 10.5634296 |
| 2 | 96455.74 | 365538.44 | 378970.11 | 9.9843281 | 10.5629330 |
| 1 | 96448.06 | 365121.11 | 378567.60 | 9.9842935 | 10.5624369 |
| 0 | 96440.37 | 364704.67 | 378165.96 | 9.9842589 | 10.5619413 |
| 9 | 96432.67 | 364289.11 | 377765.22 | 9.9842242 | 10.5614462 |
| 8 | 96424.97 | 363874.44 | 377365.35 | 9.9841895 | 10.5609515 |
| 7 | 96417.26 | 363460.64 | 376966.36 | 9.9841548 | 10.5604574 |
| 6 | 96409.54 | 363047.71 | 376568.24 | 9.9841200 | 10.5599637 |
| 5 | 96401.81 | 362635.66 | 376171.00 | 9.9840852 | 10.5594705 |
| 4 | 96394.07 | 362224.47 | 375774.62 | 9.9840503 | 10.5589778 |
| 3 | 96386.33 | 361814.15 | 375379.11 | 9.9840154 | 10.5584855 |
| 2 | 96378.58 | 361404.69 | 374984.47 | 9.9839805 | 10.5579938 |
| 1 | 96370.82 | 360996.09 | 374590.68 | 9.9839455 | 10.5575025 |
| 0 | 96363.05 | 360588.35 | 374197.75 | 9.9839105 | 10.5570117 |

15 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 26723.84 | 27732.45 | 103774.22 | 9.4268988 | 9.4429883 |
| 31 | 26751.87 | 27763.78 | 103782.60 | 9.4273541 | 9.4434786 |
| 32 | 26779.89 | 27795.12 | 103790.98 | 9.4278089 | 9.4439685 |
| 33 | 26807.92 | 27826.46 | 103799.38 | 9.4282631 | 9.4444579 |
| 34 | 26835.94 | 27857.80 | 103807.79 | 9.4287169 | 9.4449468 |
| 35 | 26863.96 | 27889.15 | 103816.21 | 9.4291701 | 9.4454352 |
| 36 | 26891.98 | 27920.50 | 103824.63 | 9.4296228 | 9.4459232 |
| 37 | 26920.00 | 27951.86 | 103833.07 | 9.4300750 | 9.4464107 |
| 38 | 26948.01 | 27983.22 | 103841.52 | 9.4305267 | 9.4468978 |
| 39 | 26976.02 | 28014.59 | 103849.98 | 9.4309779 | 9.4473843 |
| 40 | 27004.03 | 28045.97 | 103858.44 | 9.4314286 | 9.4478704 |
| 41 | 27032.04 | 28077.35 | 103866.92 | 9.4318788 | 9.4483561 |
| 42 | 27060.04 | 28108.73 | 103875.41 | 9.4323285 | 9.4488413 |
| 43 | 27088.05 | 28140.12 | 103883.91 | 9.4327777 | 9.4493260 |
| 44 | 27116.05 | 28171.52 | 103892.42 | 9.4332264 | 9.4498102 |
| 45 | 27144.04 | 28202.92 | 103900.94 | 9.4336746 | 9.4502940 |
| 46 | 27172.04 | 28334.32 | 103909.47 | 9.4341223 | 9.4507774 |
| 47 | 27200.03 | 28265.73 | 103918.00 | 9.4345694 | 9.4512602 |
| 48 | 27228.02 | 28297.15 | 103926.55 | 9.4350161 | 9.4517427 |
| 49 | 27256.01 | 28328.57 | 103935.11 | 9.4354623 | 9.4522246 |
| 50 | 27284.00 | 28359.99 | 103943.68 | 9.4359080 | 9.4527061 |
| 51 | 27311.98 | 28391.42 | 103952.26 | 9.4363532 | 9.4531872 |
| 52 | 27339.96 | 28422.86 | 103960.85 | 9.4367980 | 9.4536678 |
| 53 | 27367.94 | 28454.30 | 103969.45 | 9.4372422 | 9.4541479 |
| 54 | 27395.92 | 28485.75 | 103978.06 | 9.4376859 | 9.4546276 |
| 55 | 27423.90 | 28517.20 | 103986.69 | 9.4381292 | 9.4551069 |
| 56 | 27451.87 | 28548.66 | 103995.32 | 9.4385719 | 9.4555857 |
| 57 | 27479.84 | 28580.12 | 104003.96 | 9.4390142 | 9.4560641 |
| 58 | 27507.81 | 28611.59 | 104012.61 | 9.4394560 | 9.4565420 |
| 59 | 27535.78 | 28643.06 | 104021.27 | 9.4398973 | 9.4570194 |
| 60 | 27563.74 | 28674.54 | 104029.94 | 9.4403381 | 9.4574964 |

74 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 96363.05 | 360588.35 | 374197.75 | 9.9839105 | 10.5570117 |
| 29 | 96355.27 | 360181.46 | 373805.68 | 9.9838755 | 10.5565214 |
| 28 | 95347.48 | 359775.43 | 373414.46 | 9.9838404 | 10.5560315 |
| 27 | 96339.60 | 359370.24 | 373024.09 | 9.9838052 | 10.5555421 |
| 26 | 96331.89 | 358965.90 | 372634.57 | 9.9837701 | 10.5550532 |
| 25 | 96324.08 | 358562.41 | 372245.89 | 9.9837348 | 10.5545648 |
| 24 | 96316.26 | 358159.75 | 371858.05 | 9.9836996 | 10.5540768 |
| 23 | 96308.43 | 357757.94 | 371471.05 | 9.9836643 | 10.5535893 |
| 22 | 96300.59 | 357356.96 | 371084.89 | 9.9836290 | 10.5531022 |
| 21 | 96292.75 | 356956.81 | 370699.56 | 9.9835936 | 10.5526157 |
| 20 | 96284.90 | 356557.49 | 370315.06 | 9.9835582 | 10.5521296 |
| 19 | 96277.04 | 356159.00 | 369931.39 | 9.9835227 | 10.5516439 |
| 18 | 96269.17 | 355761.33 | 369548.54 | 9.9834872 | 10.5511587 |
| 17 | 96261.30 | 355364.49 | 369166.52 | 9.9834517 | 10.5506740 |
| 16 | 96253.42 | 354968.46 | 368785.32 | 9.9834161 | 10.5501898 |
| 15 | 96245.53 | 354573.25 | 368404.93 | 9.9833805 | 10.5497060 |
| 14 | 96237.63 | 354178.86 | 368025.36 | 9.9833449 | 10.5492226 |
| 13 | 96229.72 | 353785.28 | 367646.60 | 9.9833092 | 10.5487398 |
| 12 | 96221.80 | 353392.51 | 367268.65 | 9.9832735 | 10.5482573 |
| 11 | 96213.87 | 353000.54 | 366891.51 | 9.9832377 | 10.5477754 |
| 10 | 96205.94 | 352609.38 | 366515.18 | 9.9832019 | 10.5472939 |
| 9 | 96198.00 | 352219.02 | 366139.64 | 9.9831661 | 10.5468128 |
| 8 | 96190.05 | 351829.46 | 365764.91 | 9.9831302 | 10.5463322 |
| 7 | 96182.09 | 351440.70 | 365390.97 | 9.9830942 | 10.5458521 |
| 6 | 96174.13 | 351052.73 | 365017.83 | 9.9830583 | 10.5453724 |
| 5 | 96166.16 | 350665.55 | 364645.48 | 9.9830223 | 10.5448931 |
| 4 | 96158.18 | 350279.16 | 364273.92 | 9.9829862 | 10.5444142 |
| 3 | 96150.19 | 349893.56 | 363903.15 | 9.9829501 | 10.5439355 |
| 2 | 96142.19 | 349508.74 | 363533.16 | 9.9829140 | 10.5434580 |
| 1 | 96134.18 | 349124.70 | 363163.95 | 9.9828778 | 10.5429801 |
| 0 | 96126.17 | 348741.44 | 362795.53 | 9.9828416 | 10.5425031 |

16 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 27563.74 | 28674.54 | 104029.94 | 9.4403381 | 9.4574964 |
| 1 | 27591.70 | 28706.02 | 104038.63 | 9.4407784 | 9.4579730 |
| 2 | 27619.65 | 28737.51 | 104047.32 | 9.4412182 | 9.4584491 |
| 3 | 27647.61 | 28769.00 | 104056.02 | 9.4416576 | 9.4589248 |
| 4 | 27675.56 | 28800.50 | 104064.73 | 9.4420965 | 9.4594001 |
| 5 | 27703.52 | 28832.01 | 104073.46 | 9.4425349 | 9.4598749 |
| 6 | 27731.47 | 28863.52 | 104082.19 | 9.4429728 | 9.4603492 |
| 7 | 27759.41 | 28895.03 | 104090.94 | 9.4434103 | 9.4608232 |
| 8 | 27787.36 | 28926.55 | 104099.69 | 9.4438472 | 9.4612967 |
| 9 | 27815.30 | 28958.08 | 104108.45 | 9.4442837 | 9.4617697 |
| 10 | 27843.24 | 28989.61 | 104117.23 | 9.4447197 | 9.4622423 |
| 11 | 27871.18 | 29021.14 | 104126.01 | 9.4451553 | 9.4627145 |
| 12 | 27899.11 | 29052.68 | 104134.81 | 9.4455904 | 9.4631863 |
| 13 | 27927.04 | 29084.23 | 104143.62 | 9.4460250 | 9.4636576 |
| 14 | 27954.97 | 29115.78 | 104152.43 | 9.4464591 | 9.4641285 |
| 15 | 27982.90 | 29147.34 | 104161.26 | 9.4468927 | 9.4645990 |
| 16 | 28010.83 | 29178.90 | 104170.09 | 9.4473259 | 9.4650690 |
| 17 | 28038.75 | 29210.47 | 104178.94 | 9.4477586 | 9.4655386 |
| 18 | 28066.67 | 29242.05 | 104187.80 | 9.4481909 | 9.4660078 |
| 19 | 28094.59 | 29273.63 | 104196.67 | 9.4486227 | 9.4664765 |
| 20 | 28122.51 | 29305.21 | 104205.54 | 9.4490540 | 9.4669448 |
| 21 | 28150.42 | 29336.80 | 104214.43 | 9.4494849 | 9.4674127 |
| 22 | 28178.33 | 29368.39 | 104223.33 | 9.4499153 | 9.4678802 |
| 23 | 28206.24 | 29399.99 | 104232.24 | 9.4503452 | 9.4683473 |
| 24 | 28234.15 | 29431.60 | 104241.16 | 9.4507747 | 9.4688139 |
| 25 | 28262.05 | 29463.21 | 104250.09 | 9.4512037 | 9.4692801 |
| 26 | 28289.95 | 29494.83 | 104259.03 | 9.4516322 | 9.4697459 |
| 27 | 28317.85 | 29526.45 | 104267.98 | 9.4520603 | 9.4702112 |
| 28 | 28345.75 | 29558.08 | 104276.94 | 9.4524879 | 9.4706762 |
| 29 | 28373.64 | 29589.71 | 104285.91 | 9.4529151 | 9.4711407 |
| 30 | 28401.53 | 29621.35 | 104294.89 | 9.4533418 | 9.4716048 |

73 Grad.

| Minur. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 96126.17 | 348741.44 | 362795.53 | 9.9828416 | 10.5425036 |
| 59 | 96118.15 | 348358.96 | 362427.88 | 9.9828054 | 10.5420270 |
| 58 | 96110.12 | 347977.26 | 362061.01 | 9.9827691 | 10.5415509 |
| 57 | 96102.08 | 347596.32 | 361694.90 | 9.9827328 | 10.5410752 |
| 56 | 96094.03 | 347216.16 | 361329.57 | 9.9826964 | 10.5405999 |
| 55 | 96085.98 | 346836.76 | 360965.01 | 9.9826600 | 10.5401251 |
| 54 | 96077.92 | 346458.13 | 360601.21 | 9.9826236 | 10.5396508 |
| 53 | 96069.85 | 346080.26 | 360238.18 | 9.9825871 | 10.5391768 |
| 52 | 96061.77 | 345703.15 | 359875.90 | 9.9825506 | 10.5387033 |
| 51 | 96053.68 | 345326.79 | 359514.39 | 9.9825140 | 10.5382303 |
| 50 | 96045.58 | 344951.20 | 359153.63 | 9.9824774 | 10.5377577 |
| 49 | 96037.48 | 344576.35 | 358793.62 | 9.9824408 | 10.5372855 |
| 48 | 96029.37 | 344202.26 | 358434.37 | 9.9824041 | 10.5368137 |
| 47 | 96021.25 | 343828.91 | 358075.86 | 9.9823674 | 10.5363424 |
| 46 | 96013.12 | 343456.31 | 357718.10 | 9.9823306 | 10.5358715 |
| 45 | 96004.98 | 343084.46 | 357361.08 | 9.9822938 | 10.5354010 |
| 44 | 95996.84 | 342713.34 | 357004.81 | 9.9822569 | 10.5349310 |
| 43 | 95988.69 | 342342.97 | 356649.28 | 9.9822201 | 10.5344614 |
| 42 | 95980.53 | 341973.33 | 356294.48 | 9.9821831 | 10.5339922 |
| 41 | 95972.36 | 341604.43 | 355940.42 | 9.9821462 | 10.5335235 |
| 40 | 95964.18 | 341236.26 | 355587.10 | 9.9821092 | 10.5330552 |
| 39 | 95956.00 | 340868.82 | 355234.50 | 9.9820721 | 10.5325873 |
| 38 | 95947.81 | 340502.10 | 354882.63 | 9.9820351 | 10.5321198 |
| 37 | 95939.61 | 340136.12 | 354531.49 | 9.9819979 | 10.5316527 |
| 36 | 95931.40 | 339770.85 | 354181.07 | 9.9819608 | 10.5311861 |
| 35 | 95923.18 | 339406.31 | 353831.38 | 9.9819236 | 10.5307199 |
| 34 | 95914.95 | 339042.49 | 353482.40 | 9.9818863 | 10.5302541 |
| 33 | 95906.72 | 338679.38 | 353134.14 | 9.9818490 | 10.5297888 |
| 32 | 95898.48 | 338316.99 | 352786.60 | 9.9818117 | 10.5293238 |
| 31 | 95890.23 | 337955.31 | 352439.77 | 9.9817744 | 10.5288593 |
| 30 | 95881.97 | 337594.34 | 352093.65 | 9.9817370 | 10.5283952 |

16 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 28401.53 | 29621.35 | 104294.89 | 9.4533418 | 9.4716048 |
| 31 | 28429.42 | 29652.99 | 104303.88 | 9.4537681 | 9.4720685 |
| 32 | 28457.31 | 29684.64 | 104312.89 | 9.4541939 | 9.4725318 |
| 33 | 28485.20 | 29716.30 | 104321.90 | 9.4546192 | 9.4729947 |
| 34 | 28513.08 | 29747.96 | 104330.92 | 9.4550441 | 9.4734571 |
| 35 | 28540.96 | 29779.62 | 104339.95 | 9.4554686 | 9.4739192 |
| 36 | 28568.84 | 29811.29 | 104349.00 | 9.4558926 | 9.4743808 |
| 37 | 28596.71 | 29842.97 | 104358.05 | 9.4563161 | 9.4748421 |
| 38 | 28624.58 | 29874.65 | 104367.12 | 9.4567392 | 9.4753029 |
| 39 | 28652.45 | 29906.34 | 104376.19 | 9.4571618 | 9.4757633 |
| 40 | 28680.32 | 29938.03 | 104385.28 | 9.4575840 | 9.4762233 |
| 41 | 28708.19 | 29969.73 | 104394.37 | 9.4580058 | 9.4766829 |
| 42 | 28736.05 | 30001.44 | 104403.48 | 9.4584271 | 9.4771421 |
| 43 | 28763.91 | 30033.15 | 104412.59 | 9.4588480 | 9.4776009 |
| 44 | 28791.77 | 30064.86 | 104421.72 | 9.4592684 | 9.4780592 |
| 45 | 28819.63 | 30096.58 | 104430.86 | 9.4596884 | 9.4785172 |
| 46 | 28847.48 | 30128.31 | 104440.01 | 9.4601079 | 9.4789748 |
| 47 | 28875.33 | 30160.04 | 104449.17 | 9.4605270 | 9.4794319 |
| 48 | 28903.18 | 30191.78 | 104458.33 | 9.4609456 | 9.4798887 |
| 49 | 28931.03 | 30223.52 | 104467.51 | 9.4613638 | 9.4803451 |
| 50 | 28958.87 | 30255.27 | 104476.70 | 9.4617816 | 9.4808011 |
| 51 | 28986.71 | 30287.03 | 104485.90 | 9.4621989 | 9.4812566 |
| 52 | 29014.55 | 30318.79 | 104495.11 | 9.4626158 | 9.4817118 |
| 53 | 29042.39 | 30350.55 | 104504.33 | 9.4630323 | 9.4821666 |
| 54 | 29070.22 | 30382.32 | 104513.57 | 9.4634483 | 9.4826210 |
| 55 | 29098.05 | 30414.10 | 104522.81 | 9.4638639 | 9.4830750 |
| 56 | 29125.88 | 30445.88 | 104532.06 | 9.4642790 | 9.4835286 |
| 57 | 29153.71 | 30477.67 | 104541.32 | 9.4646938 | 9.4839818 |
| 58 | 29181.53 | 30509.46 | 104550.60 | 9.4651081 | 9.4844346 |
| 59 | 29209.35 | 30541.26 | 104559.88 | 9.4655219 | 9.4848870 |
| 60 | 29237.17 | 30573.07 | 104569.18 | 9.4659353 | 9.4853390 |

73 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 95881.97 | 337594.34 | 352093.65 | 9.9817370 | 10.5283952 |
| 29 | 95873.70 | 337234.08 | 351748.24 | 9.9816995 | 10.5279315 |
| 28 | 95865.43 | 336874.53 | 351403.54 | 9.9816620 | 10.5274682 |
| 27 | 95857.15 | 336515.68 | 351059.54 | 9.9816245 | 10.5270053 |
| 26 | 95848.86 | 336157.53 | 350716.25 | 9.9815870 | 10.5265428 |
| 25 | 95840.56 | 335800.08 | 350373.65 | 9.9815494 | 10.5260808 |
| 24 | 95832.25 | 335443.33 | 350031.75 | 9.9815117 | 10.5256192 |
| 23 | 95823.94 | 335087.28 | 349690.55 | 9.9814740 | 10.5251579 |
| 22 | 95815.62 | 334731.91 | 349350.04 | 9.9814363 | 10.5246971 |
| 21 | 95807.29 | 334377.24 | 349010.23 | 9.9813986 | 10.5242367 |
| 20 | 95798.95 | 334023.26 | 348671.10 | 9.9813608 | 10.5237767 |
| 19 | 95790.60 | 333669.97 | 348332.67 | 9.9813229 | 10.5233171 |
| 18 | 95782.25 | 333317.36 | 347994.92 | 9.9812850 | 10.5228579 |
| 17 | 95773.89 | 332965.43 | 347657.85 | 9.9812471 | 10.5223991 |
| 16 | 95765.52 | 332614.19 | 347321.46 | 9.9812091 | 10.5219408 |
| 15 | 95757.14 | 332263.62 | 346985.76 | 9.9811711 | 10.5214828 |
| 14 | 95748.75 | 331913.73 | 346650.73 | 9.9811331 | 10.5210252 |
| 13 | 95740.35 | 331564.52 | 346316.37 | 9.9810950 | 10.5205681 |
| 12 | 95731.95 | 331215.98 | 345982.69 | 9.9810569 | 10.5201113 |
| 11 | 95723.54 | 330868.11 | 345649.69 | 9.9810187 | 10.5196549 |
| 10 | 95715.12 | 330520.91 | 345317.35 | 9.9809805 | 10.5191989 |
| 9 | 95706.69 | 330174.38 | 344985.68 | 9.9809423 | 10.5187434 |
| 8 | 95698.25 | 329828.51 | 344654.67 | 9.9809040 | 10.5182882 |
| 7 | 95689.81 | 329483.30 | 344324.33 | 9.9808657 | 10.5178334 |
| 6 | 95681.36 | 329138.76 | 343994.65 | 9.9808273 | 10.5173790 |
| 5 | 95672.90 | 328794.87 | 343665.63 | 9.9807889 | 10.5169250 |
| 4 | 95664.43 | 328451.64 | 343337.27 | 9.9807505 | 10.5164714 |
| 3 | 95655.95 | 328109.07 | 343009.56 | 9.9807120 | 10.5160182 |
| 2 | 95647.47 | 327767.15 | 342682.51 | 9.9806735 | 10.5155654 |
| 1 | 95638.98 | 327425.88 | 342356.11 | 9.9806349 | 10.5151130 |
| 0 | 95630.48 | 327085.26 | 342030.36 | 9.9805963 | 10.5146610 |

17 Grad.

Minut.

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| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 29237.17 | 30573.07 | 104569.18 | 9.4659353 | 9.4853390 |
| 1 | 29264.99 | 30604.88 | 104578.48 | 9.4663483 | 9.4857907 |
| 2 | 29292.80 | 30636.69 | 104587.80 | 9.4667609 | 9.4862419 |
| 3 | 29320.61 | 30668.51 | 104597.12 | 9.4671730 | 9.4866928 |
| 4 | 29348.42 | 30700.34 | 104606.46 | 9.4675848 | 9.4871433 |
| 5 | 29376.23 | 30732.18 | 104615.81 | 9.4679960 | 9.4875933 |
| 6 | 29404.03 | 30764.02 | 104625.16 | 9.4684069 | 9.4880430 |
| 7 | 29431.83 | 30795.86 | 104634.53 | 9.4688173 | 9.4884924 |
| 8 | 29459.63 | 30827.71 | 104643.91 | 9.4692273 | 9.4889413 |
| 9 | 29487.44 | 30859.57 | 104653.30 | 9.4696369 | 9.4893898 |
| 10 | 29515.22 | 30891.43 | 104662.70 | 9.4700461 | 9.4898380 |
| 11 | 29543.01 | 30923.30 | 104672.11 | 9.4704548 | 9.4902858 |
| 12 | 29570.80 | 30955.17 | 104681.53 | 9.4708631 | 9.4907332 |
| 13 | 29598.59 | 30987.05 | 104690.96 | 9.4712710 | 9.4911802 |
| 14 | 29626.38 | 31018.93 | 104700.40 | 9.4716785 | 9.4916269 |
| 15 | 29654.16 | 31050.82 | 104709.86 | 9.4720856 | 9.4920731 |
| 16 | 29681.94 | 31082.72 | 104719.32 | 9.4724922 | 9.4925190 |
| 17 | 29709.71 | 31114.62 | 104728.79 | 9.4728985 | 9.4929646 |
| 18 | 29737.49 | 31146.53 | 104738.28 | 9.4733043 | 9.4934097 |
| 19 | 29765.26 | 31178.44 | 104747.77 | 9.4737097 | 9.4938545 |
| 20 | 29793.03 | 31210.36 | 104757.28 | 9.4741146 | 9.4942988 |
| 21 | 29820.79 | 31242.29 | 104766.79 | 9.4745192 | 9.4947429 |
| 22 | 29848.56 | 31274.22 | 104776.32 | 9.4749234 | 9.4951865 |
| 23 | 29876.32 | 31306.16 | 104785.86 | 9.4753271 | 9.4956298 |
| 24 | 29904.08 | 31338.10 | 104795.40 | 9.4757304 | 9.4960727 |
| 25 | 29931.84 | 31370.05 | 104804.96 | 9.4761334 | 9.4965152 |
| 26 | 29959.59 | 31402.00 | 104814.53 | 9.4765359 | 9.4969574 |
| 27 | 29987.34 | 31433.96 | 104824.11 | 9.4769380 | 9.4973991 |
| 28 | 30015.09 | 31465.93 | 104833.70 | 9.4773396 | 9.4978406 |
| 29 | 30042.84 | 31497.90 | 104843.30 | 9.4777409 | 9.4982816 |
| 30 | 30070.58 | 31529.88 | 104852.91 | 9.4781418 | 6.4987223 |

72 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 50 | 95630.48 | 327085.26 | 342030.36 | 9.9805963 | 10.5146610 |
| 49 | 95621.97 | 326745.29 | 341705.26 | 9.9805577 | 10.5142093 |
| 48 | 95613.45 | 326405.96 | 341380.80 | 9.9805190 | 10.5137581 |
| 47 | 95604.92 | 326067.28 | 341056.99 | 9.9804803 | 10.5133072 |
| 46 | 95596.39 | 325729.24 | 340733.82 | 9.9804415 | 10.5128567 |
| 45 | 95587.85 | 325391.84 | 340411.30 | 9.9804027 | 10.5124067 |
| 44 | 95579.30 | 325055.08 | 340089.41 | 9.9803639 | 10.5119570 |
| 43 | 95570.74 | 324718.95 | 339768.16 | 9.9803250 | 10.5115076 |
| 42 | 95562.17 | 324383.46 | 339447.54 | 9.9802860 | 10.5110587 |
| 41 | 95553.60 | 324048.60 | 339127.55 | 9.9802471 | 10.5106102 |
| 40 | 95545.02 | 323714.38 | 338808.20 | 9.9802081 | 10.5101620 |
| 39 | 95536.43 | 323380.78 | 338489.48 | 9.9801690 | 10.5097142 |
| 38 | 95527.83 | 323047.80 | 338171.38 | 9.9801299 | 10.5092668 |
| 37 | 95519.22 | 322715.46 | 337853.91 | 9.9800908 | 10.5088198 |
| 36 | 95510.61 | 322383.73 | 337537.07 | 9.9800516 | 10.5083731 |
| 35 | 95501.99 | 322052.63 | 337220.84 | 9.9800124 | 10.5079269 |
| 34 | 95493.36 | 321722.15 | 336905.24 | 9.9799732 | 10.5074810 |
| 33 | 95484.72 | 321392.28 | 336590.26 | 9.9799339 | 10.5070354 |
| 32 | 95476.07 | 321063.04 | 336275.89 | 9.9798946 | 10.5065903 |
| 31 | 95467.42 | 320734.40 | 335962.14 | 9.9798552 | 10.5061455 |
| 30 | 95458.76 | 320406.38 | 335649.00 | 9.9798158 | 10.5057012 |
| 29 | 95450.09 | 320078.97 | 335336.47 | 9.9797764 | 10.5052571 |
| 28 | 95441.41 | 319752.17 | 335024.55 | 9.9797369 | 10.5048135 |
| 27 | 95432.72 | 319425.98 | 334713.24 | 9.9796973 | 10.5043702 |
| 26 | 95424.03 | 319100.39 | 334402.54 | 9.9796578 | 10.5039273 |
| 25 | 95415.33 | 318775.40 | 334092.44 | 9.9796182 | 10.5034848 |
| 24 | 95406.62 | 318451.02 | 333782.94 | 9.9795785 | 10.5030426 |
| 23 | 95397.90 | 318127.24 | 333474.05 | 9.9795388 | 10.5026005 |
| 22 | 95389.17 | 317804.06 | 333165.75 | 9.9794991 | 10.5021594 |
| 21 | 95380.43 | 317481.47 | 332858.05 | 9.9794593 | 10.5017184 |
| 20 | 95371.69 | 317159.48 | 332550.95 | 9.9794195 | 10.5012777 |

17 Grad.

| Minut. | 17 Grad. | | | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| | Sinus | Tang. | Secant. | | |
| 30 | 30070.58 | 31529.88 | 104852.91 | 9.4781418 | 9.4937223 |
| 31 | 30098.32 | 31561.86 | 104862.53 | 9.4785423 | 9.4991626 |
| 32 | 30126.06 | 31593.85 | 104872.17 | 9.4789423 | 9.4996026 |
| 33 | 30153.80 | 31625.85 | 104881.81 | 9.4793420 | 9.5000422 |
| 34 | 30181.53 | 31657.85 | 104891.46 | 9.4797412 | 9.5004814 |
| 35 | 30209.26 | 31689.86 | 104901.13 | 9.4801401 | 9.5009203 |
| 36 | 30236.99 | 31721.87 | 104910.80 | 9.4805385 | 9.5013588 |
| 37 | 30264.71 | 31753.89 | 104920.49 | 9.4809366 | 9.5017969 |
| 38 | 30292.44 | 31785.91 | 104930.19 | 9.4813342 | 9.5022341 |
| 39 | 30320.16 | 31817.94 | 104939.89 | 9.4817315 | 9.5026721 |
| 40 | 30347.88 | 31849.98 | 104949.61 | 9.4821283 | 9.5031092 |
| 41 | 30375.59 | 31882.02 | 104959.34 | 9.4825248 | 9.5035459 |
| 42 | 30403.31 | 31914.07 | 104969.08 | 9.4829208 | 9.5039822 |
| 43 | 30431.02 | 31946.13 | 104978.83 | 9.4833165 | 9.5044182 |
| 44 | 30458.72 | 31978.19 | 104988.59 | 9.4837117 | 9.5048538 |
| 45 | 30486.43 | 32010.25 | 104998.36 | 9.4841066 | 9.5052891 |
| 46 | 30514.13 | 32042.32 | 105008.15 | 9.4845010 | 9.5057240 |
| 47 | 30541.83 | 32074.40 | 105017.94 | 9.4848951 | 9.5061586 |
| 48 | 30569.53 | 32106.49 | 105027.74 | 9.4852888 | 9.5065928 |
| 49 | 30597.23 | 32138.58 | 105037.56 | 9.4856820 | 9.5070267 |
| 50 | 30624.92 | 32170.67 | 105047.38 | 9.4860749 | 9.5074602 |
| 51 | 30652.61 | 32202.77 | 105057.22 | 9.4864674 | 9.5078933 |
| 52 | 30680.29 | 32234.88 | 105067.06 | 9.4868595 | 9.5083261 |
| 53 | 30707.98 | 32267.00 | 105076.92 | 9.4872512 | 9.5087586 |
| 54 | 30735.66 | 32299.12 | 105086.79 | 9.4876426 | 9.5091907 |
| 55 | 30763.34 | 32331.25 | 105096.67 | 9.4880335 | 9.5096224 |
| 56 | 30791.02 | 32363.38 | 105106.56 | 9.4884240 | 9.5100539 |
| 57 | 30818.69 | 32395.52 | 105116.46 | 9.4888142 | 9.5104849 |
| 58 | 30846.36 | 32427.66 | 105126.37 | 9.4892040 | 9.5109156 |
| 59 | 30874.03 | 32459.81 | 105136.29 | 9.4895934 | 9.5113460 |
| 60 | 30901.70 | 32491.97 | 105146.22 | 9.4899824 | 9.5117760 |

72 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 95371.69 | 317159.48 | 332550.95 | 9.9794195 | 10.5012777 |
| 19 | 95362.94 | 316838.08 | 332244.44 | 9.9793796 | 10.5008374 |
| 28 | 95354.18 | 316517.28 | 331938.53 | 9.9793398 | 10.5003974 |
| 27 | 95345.41 | 316197.06 | 331633.20 | 9.9792998 | 10.4999578 |
| 26 | 95336.64 | 315877.44 | 331328.47 | 9.9792599 | 10.4995186 |
| 25 | 95327.86 | 315558.40 | 331024.32 | 9.9792198 | 10.4990797 |
| 24 | 95319.07 | 315239.94 | 330720.76 | 9.9791798 | 10.4986412 |
| 23 | 95310.27 | 314922.07 | 330417.78 | 9.9791397 | 10.4982031 |
| 22 | 95301.46 | 314604.78 | 330115.39 | 9.9790996 | 10.4977653 |
| 21 | 95292.64 | 314288.07 | 329813.57 | 9.9790594 | 10.4973279 |
| 20 | 95283.82 | 313971.94 | 329512.34 | 9.9790192 | 10.4968908 |
| 19 | 95274.99 | 313656.39 | 329211.68 | 9.9789789 | 10.4964541 |
| 18 | 95266.15 | 313341.41 | 328911.60 | 9.9789386 | 10.4960178 |
| 17 | 95257.30 | 313027.01 | 328612.09 | 9.9788983 | 10.4955818 |
| 16 | 95248.44 | 312713.17 | 328313.16 | 9.9788579 | 10.4951462 |
| 15 | 95239.58 | 312399.91 | 328014.79 | 9.9788175 | 10.4947109 |
| 14 | 95230.71 | 312087.22 | 327717.00 | 9.9787770 | 10.4942760 |
| 13 | 95221.83 | 311775.09 | 327419.77 | 9.9787365 | 10.4938414 |
| 12 | 95212.94 | 311463.53 | 327123.11 | 9.9786960 | 10.4934072 |
| 11 | 95204.04 | 311152.54 | 326827.02 | 9.9786554 | 10.4929733 |
| 10 | 95195.14 | 310842.10 | 326531.49 | 9.9786148 | 10.4925398 |
| 9 | 95186.23 | 310532.23 | 326236.52 | 9.9785741 | 10.4921067 |
| 8 | 95177.31 | 310222.91 | 325942.11 | 9.9785334 | 10.4916739 |
| 7 | 95168.38 | 309914.16 | 325648.25 | 9.9784927 | 10.4912414 |
| 6 | 95159.44 | 309605.96 | 325354.96 | 9.9784519 | 10.4908093 |
| 5 | 95150.49 | 309298.31 | 325062.22 | 9.9784111 | 10.4903776 |
| 4 | 95141.54 | 308991.22 | 324770.03 | 9.9783702 | 10.4899461 |
| 3 | 95132.58 | 308684.68 | 324478.40 | 9.9783293 | 10.4895151 |
| 2 | 95123.61 | 308378.69 | 324187.32 | 9.9782883 | 10.4890844 |
| 1 | 95114.63 | 308073.25 | 323896.78 | 9.9782474 | 10.4886540 |
| 0 | 95105.65 | 307768.35 | 323606.80 | 9.9782063 | 10.4882240 |

18. Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 30901.70 | 32491.97 | 105146.22 | 9.4899824 | 9.5117760 |
| 1 | 30929.36 | 32524.13 | 105156.17 | 9.4903710 | 9.5122057 |
| 2 | 30957.02 | 32556.30 | 105166.12 | 9.4907592 | 9.5126351 |
| 3 | 30984.68 | 32588.48 | 105176.08 | 9.4911471 | 9.5130641 |
| 4 | 31012.34 | 32620.66 | 105186.06 | 9.4915345 | 9.5134927 |
| 5 | 31039.99 | 32652.85 | 105196.05 | 9.4919216 | 9.5139210 |
| 6 | 31067.64 | 32685.04 | 105206.04 | 9.4923083 | 9.5143490 |
| 7 | 31095.29 | 32717.24 | 105216.05 | 9.4926946 | 9.5147766 |
| 8 | 31122.94 | 32749.44 | 105226.07 | 9.4930806 | 9.5152039 |
| 9 | 31150.58 | 32781.65 | 105236.10 | 9.4934661 | 9.5156309 |
| 10 | 31178.22 | 32813.87 | 105246.14 | 9.4938513 | 9.5160575 |
| 11 | 31205.86 | 32846.10 | 105256.19 | 9.4942361 | 9.5164838 |
| 12 | 31233.49 | 32878.33 | 105266.25 | 9.4946205 | 9.5169097 |
| 13 | 31261.12 | 32910.56 | 105276.33 | 9.4950046 | 9.5173353 |
| 14 | 31288.75 | 32942.80 | 105286.41 | 9.4953883 | 9.5177606 |
| 15 | 31316.38 | 32975.05 | 105296.51 | 9.4957716 | 9.5181855 |
| 16 | 31344.00 | 33007.31 | 105306.61 | 9.4961545 | 9.5186101 |
| 17 | 31371.63 | 33039.57 | 105316.73 | 9.4965370 | 9.5190344 |
| 18 | 31399.25 | 33071.84 | 105326.86 | 9.4969192 | 9.5194583 |
| 19 | 31426.86 | 33104.11 | 105336.99 | 9.4973010 | 9.5198819 |
| 20 | 31454.48 | 33136.39 | 105347.14 | 9.4976824 | 9.5203052 |
| 21 | 31482.09 | 33168.68 | 105357.30 | 9.4980635 | 9.5207282 |
| 22 | 31509.62 | 33200.97 | 105367.47 | 9.4984442 | 9.5211508 |
| 23 | 31537.30 | 33233.27 | 105377.65 | 9.4988245 | 9.5215730 |
| 24 | 31564.90 | 33265.57 | 105387.85 | 9.4992045 | 9.5219950 |
| 25 | 31592.50 | 33297.88 | 105398.05 | 9.4995840 | 9.5224166 |
| 26 | 31620.10 | 33330.20 | 105408.26 | 9.4999633 | 9.5228379 |
| 27 | 31647.70 | 33362.52 | 105418.49 | 9.5003421 | 9.5232589 |
| 28 | 31675.29 | 33394.85 | 105428.73 | 9.5007206 | 9.5236795 |
| 29 | 31702.88 | 33427.19 | 105438.97 | 9.5010987 | 9.5240999 |
| 30 | 31730.47 | 33459.53 | 105449.23 | 9.5014764 | 9.5245199 |

71 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 95105.65 | 307768.35 | 323606.80 | 9.9782063 | 10.4882240 |
| 59 | 95096.66 | 307464.00 | 323317.36 | 9.9781653 | 10.4877943 |
| 58 | 95087.66 | 307160.20 | 323028.46 | 9.9781241 | 10.4873649 |
| 57 | 95078.65 | 306856.93 | 322740.11 | 9.9780830 | 10.4869359 |
| 56 | 95069.63 | 306554.21 | 322452.30 | 9.9780418 | 10.4865073 |
| 55 | 95060.60 | 306252.03 | 322165.03 | 9.9780006 | 10.4860790 |
| 54 | 95051.57 | 305950.38 | 321878.30 | 9.9779593 | 10.4856510 |
| 53 | 95042.53 | 305649.28 | 321592.10 | 9.9779180 | 10.4852234 |
| 52 | 95033.48 | 305348.70 | 321306.44 | 9.9778766 | 10.4847961 |
| 51 | 95024.42 | 305048.66 | 321021.32 | 9.9778353 | 10.4843691 |
| 50 | 95015.36 | 304749.15 | 320736.73 | 9.9777938 | 10.4839425 |
| 49 | 95006.29 | 304450.18 | 320452.66 | 9.9777523 | 10.4835162 |
| 48 | 94997.21 | 304151.73 | 320169.13 | 9.9777108 | 10.4830903 |
| 47 | 94988.12 | 303853.81 | 319886.13 | 9.9776693 | 10.4826647 |
| 46 | 94979.02 | 303556.41 | 319603.65 | 9.9776277 | 10.4822394 |
| 45 | 94969.91 | 303259.54 | 319321.70 | 9.9775860 | 10.4818145 |
| 44 | 94960.80 | 302963.20 | 319040.28 | 9.9775444 | 10.4813899 |
| 43 | 94951.68 | 302667.37 | 318759.37 | 9.9775026 | 10.4809656 |
| 42 | 94942.55 | 302372.07 | 318478.99 | 9.9774609 | 10.4805417 |
| 41 | 94933.41 | 302077.28 | 318199.13 | 9.9774191 | 10.4801181 |
| 40 | 94924.26 | 301783.01 | 317919.78 | 9.9773772 | 10.4796948 |
| 39 | 94915.11 | 301489.26 | 317640.95 | 9.9773354 | 10.4792718 |
| 38 | 94905.95 | 301196.02 | 317362.64 | 9.9772934 | 10.4788492 |
| 37 | 94896.78 | 300903.30 | 317084.84 | 9.9772515 | 10.4784270 |
| 36 | 94887.60 | 300611.09 | 316807.56 | 9.9772095 | 10.4780050 |
| 35 | 94878.41 | 300319.39 | 316530.78 | 9.9771674 | 10.4775834 |
| 34 | 94869.22 | 300028.20 | 316254.52 | 9.9771253 | 10.4771621 |
| 33 | 94860.02 | 299737.51 | 315978.76 | 9.9770832 | 10.4767411 |
| 32 | 94850.81 | 299447.34 | 315703.51 | 9.9770410 | 10.4763205 |
| 31 | 94841.59 | 299157.66 | 315428.77 | 9.9769988 | 10.4759001 |
| 30 | 94832.36 | 298868.50 | 315154.53 | 9.9769566 | 10.4754801 |

18 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 31730.47 | 33459.53 | 105449.23 | 9.5014764 | 9.5245199 |
| 31 | 31758.05 | 33491.88 | 105459.50 | 9.5018538 | 9.5249395 |
| 32 | 31785.63 | 33524.24 | 105469.78 | 9.5022308 | 9.5253589 |
| 33 | 31813.21 | 33556.60 | 105480.07 | 9.5026075 | 9.5257779 |
| 34 | 31840.79 | 33588.97 | 105490.37 | 9.5029838 | 9.5261966 |
| 35 | 31868.36 | 33621.34 | 105500.68 | 9.5033597 | 9.5266150 |
| 36 | 31895.93 | 33653.72 | 105511.01 | 9.5037353 | 9.5270331 |
| 37 | 31923.50 | 33686.11 | 105521.34 | 9.5041105 | 9.5274508 |
| 38 | 31951.06 | 33718.50 | 105531.69 | 9.5044853 | 9.5278682 |
| 39 | 31978.63 | 33750.90 | 105542.04 | 9.5048598 | 9.5282853 |
| 40 | 32006.19 | 33783.30 | 105552.41 | 9.5052339 | 9.5287021 |
| 41 | 32033.74 | 33815.71 | 105562.79 | 9.5056077 | 9.5291186 |
| 42 | 32061.30 | 33848.13 | 105573.18 | 9.5059811 | 9.5295347 |
| 43 | 32088.85 | 33880.56 | 105583.58 | 9.5063542 | 9.5299505 |
| 44 | 32116.40 | 33912.99 | 105593.99 | 9.5067268 | 9.5303661 |
| 45 | 32143.95 | 33945.43 | 105604.41 | 9.5070992 | 9.5307813 |
| 46 | 32171.49 | 33977.87 | 105614.85 | 9.5074712 | 9.5311961 |
| 47 | 32199.03 | 34010.32 | 105625.29 | 9.5078428 | 9.5316107 |
| 48 | 32226.57 | 34042.78 | 105635.75 | 9.5082141 | 9.5320250 |
| 49 | 32254.10 | 34075.24 | 105646.21 | 9.5085850 | 9.5324389 |
| 50 | 32281.64 | 34107.71 | 105656.69 | 9.5089556 | 9.5328526 |
| 51 | 32309.17 | 34140.19 | 105667.18 | 9.5093258 | 9.5332659 |
| 52 | 32336.70 | 34172.67 | 105677.68 | 9.5096956 | 9.5336789 |
| 53 | 32364.22 | 34205.16 | 105688.19 | 9.5100651 | 9.5340916 |
| 54 | 32391.74 | 34237.65 | 105698.71 | 9.5104343 | 9.5345040 |
| 55 | 32419.26 | 34270.15 | 105709.24 | 9.5108031 | 9.5349161 |
| 56 | 32446.78 | 34302.66 | 105719.78 | 9.5111716 | 9.5353278 |
| 57 | 32474.29 | 34335.18 | 105730.34 | 9.5115397 | 9.5357393 |
| 58 | 32501.80 | 34367.70 | 105740.90 | 9.5119074 | 9.5361505 |
| 59 | 32529.31 | 34400.23 | 105751.48 | 9.5122749 | 9.5365613 |
| 60 | 32556.82 | 34432.76 | 105762.07 | 9.5126419 | 9.5369719 |

71 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 94832.36 | 298868.50 | 315154.53 | 9.9769566 | 10.4754801 |
| 29 | 94823.13 | 298579.83 | 314880.79 | 9.9769143 | 10.4750609 |
| 28 | 94813.89 | 298291.66 | 314607.56 | 9.9768720 | 10.4746411 |
| 27 | 94804.64 | 298004.00 | 314334.83 | 9.9768296 | 10.4742221 |
| 26 | 94795.38 | 297716.83 | 314062.59 | 9.9767872 | 10.4738034 |
| 25 | 94786.11 | 297430.16 | 313790.86 | 9.9767447 | 10.4733850 |
| 24 | 94776.84 | 297143.99 | 313519.62 | 9.9767022 | 10.4729669 |
| 23 | 94767.56 | 296858.31 | 313248.87 | 9.9766597 | 10.4725492 |
| 22 | 94758.27 | 296573.12 | 312978.62 | 9.9766171 | 10.4721318 |
| 21 | 94748.97 | 296288.42 | 312708.86 | 9.9765745 | 10.4717147 |
| 20 | 94739.66 | 296004.22 | 312439.59 | 9.9765318 | 10.4712979 |
| 19 | 94730.35 | 295720.50 | 312170.81 | 9.9764891 | 10.4708814 |
| 18 | 94721.03 | 295437.27 | 311902.52 | 9.9764464 | 10.4704653 |
| 17 | 94711.70 | 295154.53 | 311634.72 | 9.9764036 | 10.4700495 |
| 16 | 94702.36 | 294872.27 | 311367.40 | 9.9763608 | 10.4696339 |
| 15 | 94693.01 | 294590.50 | 311100.57 | 9.9763179 | 10.4692187 |
| 14 | 94683.66 | 294309.21 | 310834.22 | 9.9762750 | 10.4688039 |
| 13 | 94674.30 | 294028.40 | 310568.35 | 9.9762321 | 10.4683893 |
| 12 | 94664.93 | 293748.07 | 310302.96 | 9.9761891 | 10.4679750 |
| 11 | 94655.55 | 293468.22 | 310038.05 | 9.9761461 | 10.4675611 |
| 10 | 94646.16 | 293188.85 | 309773.63 | 9.9761030 | 10.4671474 |
| 9 | 94636.76 | 292909.95 | 309509.67 | 9.9760599 | 10.4667341 |
| 8 | 94627.36 | 292631.52 | 309246.20 | 9.9760167 | 10.4663211 |
| 7 | 94617.95 | 292353.58 | 308983.19 | 9.9759736 | 10.4659084 |
| 6 | 94608.53 | 292076.10 | 308720.66 | 9.9759303 | 10.4654960 |
| 5 | 94599.10 | 291799.09 | 308458.60 | 9.9758870 | 10.4650839 |
| 4 | 94589.67 | 291522.56 | 308197.02 | 9.9758437 | 10.4646722 |
| 3 | 94580.23 | 291246.49 | 307935.90 | 9.9758004 | 10.4642607 |
| 2 | 94570.78 | 290970.89 | 307675.25 | 9.9757570 | 10.4638495 |
| 1 | 94561.32 | 290695.76 | 307415.07 | 9.9757135 | 10.4634387 |
| 0 | 94551.85 | 290421.09 | 307155.35 | 9.9756701 | 10.4630281 |

19 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 32556.82 | 34432.76 | 105762.07 | 9.5126419 | 9.5369718 |
| 1 | 32584.32 | 34465.30 | 105772.67 | 9.5130086 | 9.5373821 |
| 2 | 32611.82 | 34497.85 | 105783.28 | 9.5133750 | 9.5377920 |
| 3 | 32639.31 | 34530.40 | 105793.90 | 9.5137410 | 9.5382017 |
| 4 | 32666.81 | 34562.96 | 105804.53 | 9.5141067 | 9.5386110 |
| 5 | 32694.30 | 34595.53 | 105815.17 | 9.5144721 | 9.5390200 |
| 6 | 32721.79 | 34628.10 | 105825.83 | 9.5148371 | 9.5394287 |
| 7 | 32749.28 | 34660.68 | 105836.49 | 9.5152017 | 9.5398371 |
| 8 | 32776.76 | 34693.27 | 105847.17 | 9.5155660 | 9.5402453 |
| 9 | 32804.24 | 34725.86 | 105857.86 | 9.5159300 | 9.5406531 |
| 10 | 32831.72 | 34758.46 | 105868.55 | 9.5162936 | 9.5410606 |
| 11 | 32859.19 | 34791.07 | 105879.26 | 9.5166569 | 9.5414678 |
| 12 | 32886.66 | 34823.68 | 105889.99 | 9.5170198 | 9.5418747 |
| 13 | 32914.13 | 34856.30 | 105900.72 | 9.5173824 | 9.5422813 |
| 14 | 32941.60 | 34888.93 | 105911.46 | 9.5177447 | 9.5426877 |
| 15 | 32969.06 | 34921.56 | 105922.21 | 9.5181066 | 9.5430937 |
| 16 | 32996.52 | 34954.20 | 105932.98 | 9.5184682 | 9.5434994 |
| 17 | 33023.98 | 34986.85 | 105943.76 | 9.5188295 | 9.5439048 |
| 18 | 33051.44 | 35019.50 | 105954.54 | 9.5191904 | 9.5443100 |
| 19 | 33078.89 | 35052.16 | 105965.34 | 9.5195510 | 9.5447148 |
| 20 | 33106.34 | 35084.83 | 105976.15 | 9.5199112 | 9.5451193 |
| 21 | 33133.79 | 35117.50 | 105986.97 | 9.5202711 | 9.5455236 |
| 22 | 33161.23 | 35150.18 | 105997.81 | 9.5206307 | 9.5459276 |
| 23 | 33188.67 | 35182.87 | 106008.65 | 9.5209899 | 9.5463312 |
| 24 | 33216.11 | 35215.56 | 106019.51 | 9.5213488 | 9.5467346 |
| 25 | 33243.55 | 35248.26 | 106030.37 | 9.5217074 | 9.5471377 |
| 26 | 33270.98 | 35280.97 | 106041.25 | 9.5220656 | 9.5475405 |
| 27 | 33298.41 | 35313.68 | 106052.14 | 9.5224235 | 9.5479430 |
| 28 | 33325.84 | 35346.40 | 106063.04 | 9.5227811 | 9.5483452 |
| 29 | 33353.27 | 35379.13 | 106073.95 | 9.5231383 | 9.5487471 |
| 30 | 33380.69 | 35411.86 | 106084.87 | 9.5234953 | 9.5491487 |

70 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 94551.85 | 290421.09 | 307155.35 | 9.9756701 | 10.4630281 |
| 59 | 94542.38 | 290146.88 | 306896.10 | 9.9756265 | 10.4626179 |
| 58 | 94532.90 | 289873.14 | 306637.31 | 9.9755830 | 10.4622080 |
| 57 | 94523.41 | 289599.86 | 306378.98 | 9.9755394 | 10.4617982 |
| 56 | 94513.91 | 289327.04 | 306121.11 | 9.9754957 | 10.4613890 |
| 55 | 94504.40 | 289054.67 | 305863.70 | 9.9754521 | 10.4609800 |
| 54 | 94494.89 | 288782.77 | 305606.75 | 9.9754083 | 10.4605712 |
| 53 | 94485.37 | 288511.32 | 305350.26 | 9.9753646 | 10.4601625 |
| 52 | 94475.84 | 288240.33 | 305094.23 | 9.9753208 | 10.4597547 |
| 51 | 94466.30 | 287969.79 | 304838.64 | 9.9752769 | 10.4593469 |
| 50 | 94456.75 | 287699.70 | 304583.52 | 9.9752330 | 10.4589394 |
| 49 | 94447.20 | 287430.07 | 304328.84 | 9.9751891 | 10.4585322 |
| 48 | 94437.64 | 287160.88 | 304074.62 | 9.9751451 | 10.4581253 |
| 47 | 94428.07 | 286892.15 | 303820.84 | 9.9751011 | 10.4577187 |
| 46 | 94418.49 | 286623.86 | 303567.52 | 9.9750570 | 10.4573123 |
| 45 | 94408.90 | 286356.02 | 303314.64 | 9.9750129 | 10.4569063 |
| 44 | 94399.31 | 286088.63 | 303062.21 | 9.9749688 | 10.4565006 |
| 43 | 94389.71 | 285821.68 | 302810.23 | 9.9749246 | 10.4560952 |
| 42 | 94380.10 | 285555.17 | 302558.68 | 9.9748804 | 10.4556900 |
| 41 | 94370.48 | 285289.11 | 302307.59 | 9.9748361 | 10.4552852 |
| 40 | 94360.85 | 285023.49 | 302056.93 | 9.9747918 | 10.4548807 |
| 39 | 94351.21 | 284758.31 | 301806.72 | 9.9747475 | 10.4544764 |
| 38 | 94341.57 | 284493.56 | 301556.94 | 9.9747031 | 10.4540724 |
| 37 | 94331.92 | 284229.26 | 301307.60 | 9.9746587 | 10.4536688 |
| 36 | 94322.26 | 283965.39 | 301058.70 | 9.9746142 | 10.4532654 |
| 35 | 94312.60 | 283701.96 | 300810.24 | 9.9745697 | 10.4528623 |
| 34 | 94302.93 | 283438.96 | 300562.21 | 9.9745252 | 10.4524595 |
| 33 | 94293.25 | 283176.39 | 300314.62 | 9.9744806 | 10.4520570 |
| 32 | 94283.56 | 282914.26 | 300067.46 | 9.9744359 | 10.4516548 |
| 31 | 94273.86 | 282652.56 | 299820.73 | 9.9743913 | 10.4512529 |
| 30 | 94264.15 | 282391.29 | 299574.43 | 9.9743466 | 10.4508513 |

19 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 33380.69 | 35411.86 | 106084.87 | 9.5234953 | 9.5491487 |
| 31 | 33408.10 | 35444.60 | 106095.80 | 9.5238518 | 9.5495500 |
| 32 | 33435.52 | 35477.35 | 106106.75 | 9.5242081 | 9.5499511 |
| 33 | 33462.93 | 35510.10 | 106117.70 | 9.5245640 | 9.5503519 |
| 34 | 33490.34 | 35542.86 | 106128.67 | 9.5249196 | 9.5507523 |
| 35 | 33517.75 | 35575.63 | 106139.65 | 9.5252749 | 9.5511525 |
| 36 | 33545.16 | 35608.40 | 106150.64 | 9.5256298 | 9.5515524 |
| 37 | 33572.56 | 35641.18 | 106161.64 | 9.5259844 | 9.5519521 |
| 38 | 33599.96 | 35673.97 | 106172.65 | 9.5263387 | 9.5523514 |
| 39 | 33627.35 | 35706.76 | 106183.67 | 9.5266927 | 9.5527504 |
| 40 | 33654.75 | 35739.56 | 106194.71 | 9.5270463 | 9.5531492 |
| 41 | 33682.14 | 35772.37 | 106205.75 | 9.5273997 | 9.5535477 |
| 42 | 33709.53 | 35805.18 | 106216.81 | 9.5277526 | 9.5539459 |
| 43 | 33736.91 | 35838.00 | 106227.88 | 9.5281053 | 9.5543438 |
| 44 | 33764.29 | 35870.83 | 106238.96 | 9.5284577 | 9.5547415 |
| 45 | 33791.67 | 35903.67 | 106250.05 | 9.5288097 | 9.5551388 |
| 46 | 33819.05 | 35936.51 | 106261.15 | 9.5291614 | 9.5555359 |
| 47 | 33846.42 | 35969.36 | 106272.27 | 9.5295128 | 9.5559327 |
| 48 | 33873.79 | 36002.22 | 106283.39 | 9.5298638 | 9.5563292 |
| 49 | 33901.16 | 36035.08 | 106294.53 | 9.5302146 | 9.5567255 |
| 50 | 33928.53 | 36067.95 | 106305.68 | 9.5305650 | 9.5571214 |
| 51 | 33955.89 | 36100.83 | 106316.84 | 9.5309151 | 9.5575171 |
| 52 | 33983.25 | 36133.71 | 106328.01 | 9.5312649 | 9.5579125 |
| 53 | 34010.60 | 36166.60 | 106339.19 | 9.5316143 | 9.5583077 |
| 54 | 34037.95 | 36199.50 | 106350.38 | 9.5319635 | 9.5587025 |
| 55 | 34065.30 | 36232.40 | 106361.58 | 9.5323123 | 9.5590971 |
| 56 | 34092.65 | 36265.31 | 106372.80 | 9.5326608 | 9.5594914 |
| 57 | 34120.00 | 36298.23 | 106384.03 | 9.5330090 | 9.5598854 |
| 58 | 34147.34 | 36331.15 | 106395.27 | 9.5333569 | 9.5602792 |
| 59 | 34174.68 | 36364.08 | 106406.52 | 9.5337044 | 9.5606727 |
| 60 | 34202.02 | 36397.02 | 106417.78 | 9.5340517 | 9.5610659 |

70 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 94264.15 | 282391.29 | 299574.43 | 9.9743466 | 10.4508513 |
| 29 | 94254.43 | 282130.45 | 299328.56 | 9.9743018 | 10.4504500 |
| 28 | 94244.71 | 281870.03 | 299083.12 | 9.9742570 | 10.4500489 |
| 27 | 94234.98 | 281610.04 | 298838.11 | 9.9742122 | 10.4496481 |
| 26 | 94225.24 | 281350.48 | 298593.52 | 9.9741673 | 10.4492477 |
| 25 | 94215.50 | 281091.34 | 298349.36 | 9.9741224 | 10.4488475 |
| 24 | 94205.75 | 280832.63 | 298105.63 | 9.9740774 | 10.4484476 |
| 23 | 94195.99 | 280574.33 | 297862.31 | 9.9740324 | 10.4480479 |
| 22 | 94186.22 | 280316.16 | 297619.42 | 9.9739873 | 10.4476486 |
| 21 | 94176.44 | 280059.01 | 297376.95 | 9.9739422 | 10.4472496 |
| 20 | 94166.65 | 279801.98 | 297134.90 | 9.9738971 | 10.4468508 |
| 19 | 94156.85 | 279545.37 | 296893.27 | 9.9738519 | 10.4464523 |
| 18 | 94147.05 | 279289.17 | 296652.05 | 9.9738067 | 10.4460541 |
| 17 | 94137.24 | 279033.39 | 296411.25 | 9.9737615 | 10.4456562 |
| 16 | 94127.42 | 278778.02 | 296170.87 | 9.9737162 | 10.4452585 |
| 15 | 94117.60 | 278523.07 | 295930.90 | 9.9736709 | 10.4448612 |
| 14 | 94107.77 | 278268.53 | 295691.35 | 9.9736255 | 10.4444641 |
| 13 | 94097.93 | 278014.40 | 295452.21 | 9.9735801 | 10.4440673 |
| 12 | 94088.08 | 277760.69 | 295213.48 | 9.9735346 | 10.4436708 |
| 11 | 94078.22 | 277507.38 | 294975.16 | 9.9734891 | 10.4432745 |
| 10 | 94068.35 | 277254.48 | 294737.25 | 9.9734435 | 10.4428786 |
| 9 | 94058.48 | 277001.99 | 294499.75 | 9.9733980 | 10.4424829 |
| 8 | 94048.60 | 276749.90 | 294262.65 | 9.9733523 | 10.4420875 |
| 7 | 94038.71 | 276498.22 | 294025.97 | 9.9733067 | 10.4416923 |
| 6 | 94028.81 | 276246.95 | 293789.68 | 9.9732610 | 10.4412975 |
| 5 | 94018.90 | 275996.08 | 293553.80 | 9.9732152 | 10.4409029 |
| 4 | 94008.99 | 275745.61 | 293318.33 | 9.9731694 | 10.4405086 |
| 3 | 93999.07 | 275495.54 | 293083.26 | 9.9731236 | 10.4401146 |
| 2 | 93989.14 | 275245.88 | 292848.58 | 9.9730777 | 10.4397208 |
| 1 | 93979.20 | 274996.61 | 292614.31 | 9.9730318 | 10.4393273 |
| 0 | 93969.26 | 274747.74 | 292380.44 | 9.9729858 | 10.4389341 |

20 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 34202.02 | 36397.02 | 106417.78 | 9.5340517 | 9.5610658 |
| 34229.35 | 36429.97 | 106429.05 | 9.5343986 | 9.5614588 |
| 34256.68 | 36462.92 | 106440.33 | 9.5347452 | 9.5618515 |
| 34284.01 | 36495.88 | 106451.63 | 9.5350915 | 9.5622439 |
| 34311.33 | 36528.85 | 106462.94 | 9.5354375 | 9.5626360 |
| 34338.65 | 36561.82 | 106474.26 | 9.5357832 | 9.5630278 |
| 34365.97 | 36594.80 | 106485.59 | 9.5361286 | 9.5634194 |
| 34393.29 | 36627.79 | 106496.93 | 9.5364737 | 9.5638107 |
| 34420.60 | 36660.79 | 105508.28 | 9.5368184 | 9.5642018 |
| 34447.91 | 36693.79 | 106519.64 | 9.5371628 | 9.5645925 |
| 34475.22 | 36726.80 | 106531.01 | 9.5375069 | 9.5649831 |
| 34502.52 | 36759.82 | 106542.40 | 9.5378508 | 9.5653733 |
| 34529.82 | 36792.84 | 106553.80 | 9.5381943 | 9.5657633 |
| 34557.12 | 36825.87 | 106565.21 | 9.5385375 | 9.5661530 |
| 34584.42 | 36858.91 | 106576.63 | 9.5388804 | 9.5665424 |
| 34611.71 | 36891.95 | 106588.07 | 9.5392230 | 9.5669316 |
| 34639.00 | 36925.00 | 106599.51 | 9.5395653 | 9.5673205 |
| 34666.29 | 36958.06 | 106610.97 | 9.5399073 | 9.5677091 |
| 34693.57 | 36991.13 | 106622.43 | 9.5402489 | 9.5680975 |
| 34720.85 | 37024.20 | 106633.91 | 9.5405903 | 9.5684856 |
| 34748.13 | 37057.28 | 106645.40 | 9.5409314 | 9.5688735 |
| 34775.40 | 37090.37 | 106656.90 | 9.5412721 | 9.5692611 |
| 34802.67 | 37123.46 | 106668.42 | 9.5416126 | 9.5696484 |
| 34829.94 | 37156.56 | 106679.94 | 9.5419527 | 9.5700355 |
| 34857.21 | 37189.67 | 106691.48 | 9.5422926 | 9.5704223 |
| 34884.47 | 37222.78 | 106703.02 | 9.5526321 | 9.5708088 |
| 34911.73 | 37255.90 | 106714.58 | 9.5429713 | 9.5711951 |
| 34938.99 | 37289.03 | 106726.15 | 9.5433103 | 9.5715811 |
| 34966.24 | 37322.17 | 106737.74 | 9.5436489 | 9.5719669 |
| 34993.49 | 37355.32 | 106749.34 | 9.5439873 | 9.5723524 |
| 35020.74 | 37388.47 | 106760.94 | 9.5443253 | 9.5727377 |

69 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 93969.26 | 274747.74 | 292388.44 | 9.9729858 | 10.4389341 |
| 59 | 93959.31 | 274499.27 | 292146.97 | 9.9729398 | 10.4385412 |
| 58 | 93949.35 | 274251.20 | 291913.89 | 9.9728938 | 10.4381485 |
| 57 | 93939.38 | 274003.52 | 291681.21 | 9.9728477 | 10.4377561 |
| 56 | 93929.40 | 273756.23 | 291448.92 | 9.9728016 | 10.4373640 |
| 55 | 93919.42 | 273509.34 | 291217.03 | 9.9727554 | 10.4369722 |
| 54 | 93909.43 | 273262.84 | 290985.53 | 9.9727092 | 10.4365806 |
| 53 | 93899.43 | 273016.74 | 290754.43 | 9.9726629 | 10.4361893 |
| 52 | 93889.42 | 272771.02 | 290523.72 | 9.9726166 | 10.4357982 |
| 51 | 93879.40 | 272525.69 | 290293.39 | 9.9725703 | 10.4354075 |
| 50 | 93869.37 | 272280.75 | 290063.46 | 9.9725239 | 10.4350169 |
| 49 | 93859.34 | 272036.20 | 289833.91 | 9.9724775 | 10.4346267 |
| 48 | 93849.30 | 271792.04 | 289604.75 | 9.9724310 | 10.4342367 |
| 47 | 93839.25 | 271548.26 | 289375.98 | 9.9723845 | 10.4338470 |
| 46 | 93829.19 | 271304.87 | 289147.60 | 9.9723380 | 10.4334576 |
| 45 | 93819.13 | 271061.86 | 288919.59 | 9.9722914 | 10.4330684 |
| 44 | 93809.06 | 270819.23 | 288691.98 | 9.9722448 | 10.4326795 |
| 43 | 93798.98 | 270576.99 | 288464.74 | 9.9721981 | 10.4322909 |
| 42 | 93788.89 | 270335.13 | 288237.89 | 9.9721514 | 10.4319025 |
| 41 | 93778.79 | 270093.64 | 288011.42 | 9.9721047 | 10.4315144 |
| 40 | 93768.69 | 269852.54 | 287785.32 | 9.9720579 | 10.4311265 |
| 39 | 93758.58 | 269611.81 | 287559.61 | 9.9720110 | 10.4307389 |
| 38 | 93748.46 | 269371.47 | 287334.28 | 9.9719642 | 10.4303516 |
| 37 | 93738.33 | 269131.45 | 287109.32 | 9.9719172 | 10.4299645 |
| 36 | 93728.19 | 268891.90 | 286884.74 | 9.9718703 | 10.4295777 |
| 35 | 93718.05 | 268652.67 | 286660.53 | 9.9718233 | 10.4291912 |
| 34 | 93707.90 | 268413.83 | 286436.70 | 9.9717762 | 10.4288049 |
| 33 | 93697.74 | 268175.35 | 286213.24 | 9.9717291 | 10.4284189 |
| 32 | 93687.57 | 267937.25 | 285990.15 | 9.9716820 | 10.4280331 |
| 31 | 93677.40 | 267699.51 | 285767.44 | 9.9716348 | 10.4276476 |
| 30 | 93667.22 | 267462.15 | 285545.09 | 9.9715876 | 10.4272623 |

20 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 35020.74 | 37388.47 | 106760.94 | 9.5443253 | 9.5727377 |
| 31 | 35047.99 | 37421.65 | 106772.55 | 9.5446630 | 9.5731227 |
| 32 | 35075.23 | 37454.79 | 106784.18 | 9.5450005 | 9.5735074 |
| 33 | 35102.47 | 37487.97 | 106795.82 | 9.5453376 | 9.5738919 |
| 34 | 35129.70 | 37521.15 | 106807.47 | 9.5456745 | 9.5742761 |
| 35 | 35156.93 | 37554.34 | 106819.14 | 9.5460110 | 9.5746601 |
| 36 | 35184.16 | 37587.53 | 106830.81 | 9.5463472 | 9.5750438 |
| 37 | 35211.39 | 37620.73 | 106842.50 | 9.5466832 | 9.5754272 |
| 38 | 35238.62 | 37653.94 | 106854.20 | 9.5470189 | 9.5758104 |
| 39 | 35265.84 | 37687.16 | 106865.91 | 9.5473542 | 9.5761934 |
| 40 | 35293.06 | 37720.38 | 106877.63 | 9.5476893 | 9.5765761 |
| 41 | 35320.27 | 37753.61 | 106889.36 | 9.5480240 | 9.5769585 |
| 42 | 35347.48 | 37786.85 | 106901.10 | 9.5483585 | 9.5773407 |
| 43 | 35374.69 | 37820.10 | 106912.86 | 9.5486927 | 9.5777226 |
| 44 | 35401.90 | 37853.35 | 106924.63 | 9.5490266 | 9.5781043 |
| 45 | 35429.10 | 37886.61 | 106936.41 | 9.5493602 | 9.5784858 |
| 46 | 35456.30 | 37919.88 | 106948.20 | 9.5496935 | 9.5788669 |
| 47 | 35483.50 | 37953.16 | 106960.00 | 9.5500265 | 9.5792479 |
| 48 | 35510.70 | 37986.44 | 106971.82 | 9.5503592 | 9.5796286 |
| 49 | 35537.89 | 38019.73 | 106983.64 | 9.5506916 | 9.5800090 |
| 50 | 35565.08 | 38053.03 | 106995.48 | 9.5510237 | 9.5803892 |
| 51 | 35592.26 | 38086.33 | 107007.33 | 9.5513556 | 9.5807691 |
| 52 | 35619.44 | 38119.64 | 107019.19 | 9.5516871 | 9.5811488 |
| 53 | 35646.62 | 38152.96 | 107031.06 | 9.5520184 | 9.5815282 |
| 54 | 35673.80 | 38186.29 | 107042.95 | 9.5523494 | 9.5819074 |
| 55 | 35700.97 | 38219.62 | 107054.84 | 9.5526801 | 9.5822864 |
| 56 | 35728.14 | 38252.96 | 107066.75 | 9.5530105 | 9.5826651 |
| 57 | 35755.31 | 38286.31 | 107078.67 | 9.5533406 | 9.5830435 |
| 58 | 35782.48 | 38319.67 | 107090.60 | 9.5536704 | 9.5834217 |
| 59 | 35809.64 | 38353.03 | 107102.54 | 9.5539999 | 9.5837997 |
| 60 | 35836.79 | 38386.40 | 107114.50 | 9.5543292 | 9.5841774 |

69 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 93667.22 | 267462.15 | 285545.09 | 9.9715876 | 10.4272623 |
| 29 | 93657.03 | 267225.16 | 285323.12 | 9.9715404 | 10.4268773 |
| 28 | 93646.83 | 266988.53 | 285101.52 | 9.9714931 | 10.4264926 |
| 27 | 93636.62 | 266752.27 | 284880.28 | 9.9714457 | 10.4261081 |
| 26 | 93626.40 | 266516.38 | 284659.41 | 9.9713984 | 10.4257239 |
| 25 | 93616.18 | 266280.85 | 284438.91 | 9.9713509 | 10.4253399 |
| 24 | 93605.95 | 266045.69 | 284218.77 | 9.9713035 | 10.4249562 |
| 23 | 93595.71 | 265810.89 | 283998.99 | 9.9712560 | 10.4245728 |
| 22 | 93585.46 | 265576.45 | 283779.58 | 9.9712084 | 10.4241896 |
| 21 | 93575.21 | 265342.38 | 283560.54 | 9.9711608 | 10.4238066 |
| 20 | 93564.95 | 265108.67 | 283341.85 | 9.9711132 | 10.4234239 |
| 19 | 93554.68 | 264875.31 | 283123.53 | 9.9710655 | 10.4230415 |
| 18 | 93544.40 | 264642.32 | 282905.56 | 9.9710178 | 10.4226593 |
| 17 | 93534.11 | 264409.69 | 282687.96 | 9.9709701 | 10.4222774 |
| 16 | 93523.82 | 264177.41 | 282470.71 | 9.9709223 | 10.4218957 |
| 15 | 93513.52 | 263945.49 | 282253.82 | 9.9708744 | 10.4215142 |
| 14 | 93503.21 | 263713.92 | 282037.29 | 9.9708265 | 10.4211331 |
| 13 | 93492.89 | 263482.71 | 281821.11 | 9.9707786 | 10.4207521 |
| 12 | 93482.56 | 263251.86 | 281605.29 | 9.9707306 | 10.4203714 |
| 11 | 93472.23 | 263021.36 | 281389.82 | 9.9706826 | 10.4199910 |
| 10 | 93461.89 | 262791.21 | 281174.71 | 9.9706346 | 10.4196108 |
| 9 | 93451.54 | 262561.41 | 280959.95 | 9.9705865 | 10.4192309 |
| 8 | 93441.18 | 262331.96 | 280745.54 | 9.9705383 | 10.4188512 |
| 7 | 93430.82 | 262102.86 | 280531.48 | 9.9704902 | 10.4184718 |
| 6 | 93420.45 | 261874.11 | 280317.77 | 9.9704419 | 10.4180926 |
| 5 | 93410.07 | 261645.71 | 280104.41 | 9.9703937 | 10.4177136 |
| 4 | 93399.68 | 261417.66 | 279891.40 | 9.9703454 | 10.4173349 |
| 3 | 93389.28 | 261189.95 | 279678.73 | 9.9702970 | 10.4169565 |
| 2 | 93378.87 | 260962.59 | 279466.41 | 9.9702486 | 10.4165783 |
| 1 | 93368.46 | 260735.58 | 279254.44 | 9.9702002 | 10.4162003 |
| 0 | 93358.04 | 260508.91 | 279042.81 | 9.9701517 | 10.4158226 |

21 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 35836.79 | 38386.40 | 107114.50 | 9.5543292 | 9.5841774 |
| 1 | 35863.95 | 38419.78 | 107126.47 | 9.5546581 | 9.5845549 |
| 2 | 35891.10 | 38453.17 | 107138.44 | 9.5549868 | 9.5849321 |
| 3 | 35918.25 | 38486.56 | 107150.43 | 9.5553152 | 9.5853091 |
| 4 | 35945.40 | 38519.96 | 107162.44 | 9.5556433 | 9.5856859 |
| 5 | 35972.54 | 38553.37 | 107174.45 | 9.5559711 | 9.5860624 |
| 6 | 35999.68 | 38586.79 | 107186.47 | 9.5562987 | 9.5864386 |
| 7 | 36026.82 | 38620.21 | 107198.51 | 9.5566259 | 9.5868147 |
| 8 | 36053.95 | 38653.64 | 107210.56 | 9.5569529 | 9.5871904 |
| 9 | 36081.08 | 38687.08 | 107222.62 | 9.5572796 | 9.5875660 |
| 10 | 36108.21 | 38720.53 | 107234.69 | 9.5576060 | 9.5879413 |
| 11 | 36135.33 | 38753.98 | 107246.78 | 9.5579321 | 9.5883163 |
| 12 | 36162.46 | 38787.44 | 107258.87 | 9.5582579 | 9.5886912 |
| 13 | 36189.58 | 38820.91 | 107270.98 | 9.5585835 | 9.5890657 |
| 14 | 36216.69 | 38854.39 | 107283.10 | 9.5589088 | 9.5894401 |
| 15 | 36243.80 | 38887.87 | 107295.23 | 9.5592338 | 9.5898142 |
| 16 | 36270.91 | 38921.36 | 107307.37 | 9.5595585 | 9.5901881 |
| 17 | 36298.02 | 38954.86 | 107319.53 | 9.5598829 | 9.5905617 |
| 18 | 36325.12 | 38988.37 | 107331.70 | 9.5602071 | 9.5909351 |
| 19 | 36352.22 | 39021.89 | 107343.88 | 9.5605310 | 9.5913082 |
| 20 | 36379.32 | 39055.41 | 107356.07 | 9.5608546 | 9.5916812 |
| 21 | 36406.41 | 39088.94 | 107368.27 | 9.5611779 | 9.5920539 |
| 22 | 36433.50 | 39122.48 | 107380.48 | 9.5615010 | 9.5924263 |
| 23 | 36460.59 | 39156.02 | 107392.71 | 9.5618237 | 9.5927985 |
| 24 | 36487.68 | 39189.57 | 107404.95 | 9.5621462 | 9.5931705 |
| 25 | 36514.76 | 39223.13 | 107417.20 | 9.5624685 | 9.5935422 |
| 26 | 36541.84 | 39256.70 | 107429.46 | 9.5627904 | 9.5939138 |
| 27 | 36568.92 | 39290.28 | 107441.73 | 9.5631121 | 9.5942851 |
| 28 | 36595.99 | 39323.86 | 107454.02 | 9.5634335 | 9.5946561 |
| 29 | 36623.06 | 39357.45 | 107466.31 | 9.5637546 | 9.5950269 |
| 30 | 36650.13 | 39391.05 | 107478.62 | 9.5940754 | 9.5953975 |

68 Grad.

| Minut. | 68 Grad. | | | | | |
|--------|----------|-----------|-----------|-----------|------------|--|
| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. | |
| 60 | 93358.04 | 260508.91 | 279042.81 | 9.9701517 | 10.4158226 | |
| 59 | 93347.61 | 260282.58 | 278831.53 | 9.9701032 | 10.4154451 | |
| 58 | 93337.17 | 260056.59 | 278620.59 | 9.9700547 | 10.4150679 | |
| 57 | 93326.73 | 259830.95 | 278409.99 | 9.9700061 | 10.4146909 | |
| 56 | 93316.28 | 259605.64 | 278199.73 | 9.9699574 | 10.4143141 | |
| 55 | 93305.82 | 259380.68 | 277989.82 | 9.9699087 | 10.4139376 | |
| 54 | 93295.35 | 259156.06 | 277780.24 | 9.9698600 | 10.4135614 | |
| 53 | 93284.87 | 258931.77 | 277571.00 | 9.9698112 | 10.4131853 | |
| 52 | 93274.39 | 258707.82 | 277362.11 | 9.9697624 | 10.4128096 | |
| 51 | 93263.90 | 258484.21 | 277153.55 | 9.9697136 | 10.4124340 | |
| 50 | 93253.40 | 258260.94 | 276945.32 | 9.9696647 | 10.4120587 | |
| 49 | 93242.89 | 258038.90 | 276737.43 | 9.9696158 | 10.4116837 | |
| 48 | 93232.38 | 257815.39 | 276529.88 | 9.9695668 | 10.4113088 | |
| 47 | 93221.86 | 257593.12 | 276322.66 | 9.9695177 | 10.4109343 | |
| 46 | 93211.33 | 257371.18 | 276115.78 | 9.9694687 | 10.4105599 | |
| 45 | 93200.79 | 257149.57 | 275909.23 | 9.9694196 | 10.4101858 | |
| 44 | 93190.24 | 256928.30 | 275703.01 | 9.9693704 | 10.4098119 | |
| 43 | 93179.68 | 256707.35 | 275497.12 | 9.9693212 | 10.4094383 | |
| 42 | 93169.12 | 256486.74 | 275291.57 | 9.9692720 | 10.4090645 | |
| 41 | 93158.55 | 256266.45 | 275086.34 | 9.9692227 | 10.4086918 | |
| 40 | 93147.97 | 256046.49 | 274881.44 | 9.9691734 | 10.4083188 | |
| 39 | 93137.38 | 255826.86 | 274676.87 | 9.9691240 | 10.4079461 | |
| 38 | 93126.79 | 255607.56 | 274472.63 | 9.9690746 | 10.4075737 | |
| 37 | 93116.19 | 255388.58 | 274268.71 | 9.9690252 | 10.4072014 | |
| 36 | 93105.58 | 255169.92 | 274065.12 | 9.9689757 | 10.4068294 | |
| 35 | 93094.96 | 254951.60 | 273861.86 | 9.9689262 | 10.4064577 | |
| 34 | 93084.33 | 254733.59 | 273658.92 | 9.9688766 | 10.4060862 | |
| 33 | 93073.70 | 254515.91 | 273456.30 | 9.9688270 | 10.4057144 | |
| 32 | 93063.06 | 254298.55 | 273254.00 | 9.9687773 | 10.4053431 | |
| 31 | 93052.41 | 254081.51 | 273052.03 | 9.9687276 | 10.4049713 | |
| 30 | 93041.75 | 253864.79 | 272850.38 | 9.9686779 | 10.4046002 | |

21 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 36650.13 | 39391.05 | 107478.62 | 9.5640754 | 9.5953975 |
| 31 | 36677.15 | 39424.66 | 107490.95 | 9.5643960 | 9.5957679 |
| 32 | 36704.25 | 39458.27 | 107503.28 | 9.5647163 | 9.5961380 |
| 33 | 36731.31 | 39491.89 | 107515.62 | 9.5650363 | 9.5965079 |
| 34 | 36758.36 | 39525.52 | 107527.98 | 9.5653561 | 9.5968776 |
| 35 | 36785.41 | 39559.16 | 107540.35 | 9.5656756 | 9.5972470 |
| 36 | 36812.46 | 39592.80 | 107552.73 | 9.5659948 | 9.5976162 |
| 37 | 36839.50 | 39620.45 | 107565.12 | 9.5663137 | 9.5979852 |
| 38 | 36866.54 | 39660.11 | 107577.53 | 9.5666324 | 9.5983540 |
| 39 | 36893.58 | 39693.78 | 107589.95 | 9.5669508 | 9.5987225 |
| 40 | 36920.62 | 39727.46 | 107602.37 | 9.5672689 | 9.5990908 |
| 41 | 36947.65 | 39761.14 | 107614.81 | 9.5675868 | 9.5994588 |
| 42 | 36974.68 | 39794.83 | 107627.27 | 9.5679044 | 9.5998267 |
| 43 | 37001.70 | 39828.53 | 107639.73 | 9.5682217 | 9.6001943 |
| 44 | 37028.72 | 39862.24 | 107652.21 | 9.5685387 | 9.6005617 |
| 45 | 37055.74 | 39895.96 | 107664.70 | 9.5688555 | 9.6009289 |
| 46 | 37082.76 | 39929.68 | 107677.20 | 9.5691721 | 9.6012958 |
| 47 | 37109.77 | 39963.41 | 107689.71 | 9.5694883 | 9.6016625 |
| 48 | 37136.78 | 39997.15 | 107702.24 | 9.5698043 | 9.6020290 |
| 49 | 37163.79 | 40030.89 | 107714.77 | 9.5701200 | 9.6023953 |
| 50 | 37190.80 | 40064.65 | 107727.32 | 9.5704355 | 9.6027613 |
| 51 | 37217.80 | 40098.41 | 107739.88 | 9.5707506 | 9.6031271 |
| 52 | 37244.80 | 40132.18 | 107752.46 | 9.5710656 | 9.6034927 |
| 53 | 37271.79 | 40165.96 | 107765.04 | 9.5713802 | 9.6038581 |
| 54 | 37298.78 | 40199.75 | 107777.64 | 9.5716946 | 9.6042233 |
| 55 | 37325.77 | 40233.54 | 107790.25 | 9.5720087 | 9.6045882 |
| 56 | 37352.75 | 40267.34 | 107802.87 | 9.5723226 | 9.6049529 |
| 57 | 37379.73 | 40301.15 | 107815.50 | 9.5726362 | 9.6053174 |
| 58 | 37406.71 | 40334.97 | 107828.15 | 9.5729495 | 9.6056817 |
| 59 | 37433.69 | 40368.79 | 107840.80 | 9.5732626 | 9.6060457 |
| 60 | 37460.66 | 40402.62 | 107853.47 | 9.5735754 | 9.6064096 |

68 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 93041.75 | 253864.79 | 272350.38 | 9.9686779 | 10.4046025 |
| 29 | 93031.09 | 253648.39 | 272649.05 | 9.9686231 | 10.4042321 |
| 28 | 93020.42 | 253432.31 | 272448.04 | 9.9685783 | 10.4038620 |
| 27 | 93009.74 | 253216.55 | 272247.35 | 9.9685284 | 10.4034921 |
| 26 | 92999.05 | 253001.11 | 272046.98 | 9.9684785 | 10.4031224 |
| 25 | 92988.35 | 252785.98 | 271846.93 | 9.9684286 | 10.4027530 |
| 24 | 92977.65 | 252571.17 | 271647.19 | 9.9683786 | 10.4023838 |
| 23 | 92966.94 | 252356.67 | 271447.77 | 9.9683285 | 10.4020148 |
| 22 | 92956.22 | 252142.45 | 271248.66 | 9.9682784 | 10.4016460 |
| 21 | 92945.49 | 251928.63 | 271049.87 | 9.9682283 | 10.4012775 |
| 20 | 92934.75 | 251715.07 | 270851.39 | 9.9681781 | 10.4009092 |
| 19 | 92924.01 | 251501.83 | 270653.23 | 9.9681279 | 10.4005411 |
| 18 | 92913.26 | 251288.90 | 270455.38 | 9.9680777 | 10.4001733 |
| 17 | 92902.50 | 251076.29 | 270257.84 | 9.9680274 | 10.3998057 |
| 16 | 92891.73 | 250863.98 | 270060.61 | 9.9679771 | 10.3994383 |
| 15 | 92880.95 | 250651.98 | 269863.70 | 9.9679267 | 10.3990711 |
| 14 | 92870.17 | 250440.29 | 269667.09 | 9.9678763 | 10.3987042 |
| 13 | 92859.38 | 250228.91 | 269470.79 | 9.9678258 | 10.3983375 |
| 12 | 92848.58 | 250017.84 | 269274.80 | 9.9677753 | 10.3979710 |
| 11 | 92837.77 | 249807.07 | 269079.12 | 9.9677247 | 10.3976047 |
| 10 | 92826.96 | 249596.61 | 268883.74 | 9.9676741 | 10.3972387 |
| 9 | 92816.14 | 249386.45 | 268688.67 | 9.9676235 | 10.3968729 |
| 8 | 92805.31 | 249176.60 | 268493.91 | 9.9675728 | 10.3965073 |
| 7 | 92794.47 | 248967.06 | 268299.45 | 9.9675221 | 10.3961419 |
| 6 | 92783.62 | 248757.81 | 268105.30 | 9.9674713 | 10.3957767 |
| 5 | 92772.77 | 248548.87 | 267911.45 | 9.9674205 | 10.3954118 |
| 4 | 92761.91 | 248340.23 | 267717.90 | 9.9673697 | 10.3950471 |
| 3 | 92751.04 | 248131.90 | 267524.65 | 9.9673188 | 10.3946826 |
| 2 | 92740.16 | 247923.86 | 267331.70 | 9.9672679 | 10.3943183 |
| 1 | 92729.28 | 247716.12 | 267139.06 | 9.9672169 | 10.3939543 |
| 0 | 92718.39 | 247508.69 | 266946.72 | 9.9671659 | 10.3935904 |

22 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 37460.66 | 40402.62 | 107853.47 | 9.5735754 | 9.6064066 |
| 1 | 37487.63 | 40436.46 | 107866.16 | 9.5738880 | 9.6067732 |
| 2 | 37514.59 | 40470.31 | 107878.85 | 9.5742003 | 9.6071366 |
| 3 | 37541.56 | 40504.17 | 107891.56 | 9.5745123 | 9.6074997 |
| 4 | 37568.52 | 40538.04 | 107904.27 | 9.5748240 | 9.6078627 |
| 5 | 37595.47 | 40571.91 | 107917.00 | 9.5751356 | 9.6082254 |
| 6 | 37622.43 | 40605.79 | 107929.75 | 9.5754468 | 9.6085880 |
| 7 | 37649.38 | 40639.68 | 107942.50 | 9.5757578 | 9.6089503 |
| 8 | 37676.32 | 40673.58 | 107955.27 | 9.5760685 | 9.6093124 |
| 9 | 37703.27 | 40707.48 | 107968.05 | 9.5763790 | 9.6096742 |
| 10 | 37730.21 | 40741.39 | 107980.84 | 9.5766892 | 9.6100359 |
| 11 | 37757.14 | 40775.31 | 107993.64 | 9.5769991 | 9.6103973 |
| 12 | 37784.08 | 40809.24 | 108006.46 | 9.5773088 | 9.6107586 |
| 13 | 37811.01 | 40843.18 | 108019.28 | 9.5776183 | 9.6111196 |
| 14 | 37837.94 | 40877.13 | 108032.12 | 9.5779275 | 9.6114804 |
| 15 | 37864.86 | 40911.08 | 108044.97 | 9.5782364 | 9.6118409 |
| 16 | 37891.78 | 40945.04 | 108057.84 | 9.5785450 | 9.6122013 |
| 17 | 37918.70 | 40979.01 | 108070.71 | 9.5788535 | 9.6125615 |
| 18 | 37945.62 | 41012.99 | 108083.60 | 9.5791616 | 9.6129214 |
| 19 | 37972.53 | 41046.97 | 108096.50 | 9.5794695 | 9.6132812 |
| 20 | 37999.44 | 41080.97 | 108109.42 | 9.5797772 | 9.6136407 |
| 21 | 38026.34 | 41114.97 | 108122.34 | 9.5800845 | 9.6140000 |
| 22 | 38053.24 | 41148.98 | 108135.28 | 9.5803917 | 9.6143591 |
| 23 | 38080.14 | 41183.00 | 108148.23 | 9.5806986 | 9.6147180 |
| 24 | 38107.04 | 41217.03 | 108161.19 | 9.5810052 | 9.6150766 |
| 25 | 38133.93 | 41251.06 | 108174.17 | 9.5813116 | 9.6154351 |
| 26 | 38160.82 | 41285.10 | 108187.15 | 9.5816177 | 9.6157934 |
| 27 | 38187.70 | 41319.15 | 108200.15 | 9.5819236 | 9.6161514 |
| 28 | 38214.59 | 41353.21 | 108213.16 | 9.5822292 | 9.6165093 |
| 29 | 38241.47 | 41387.28 | 108226.18 | 9.5825345 | 9.6168669 |
| 30 | 38268.34 | 41421.36 | 108239.22 | 9.5828397 | 9.6172243 |

67 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 92718.39 | 247508.69 | 266946.72 | 9.9671659 | 10.3935904 |
| 59 | 92707.49 | 247301.55 | 266754.67 | 9.9671148 | 10.3932268 |
| 58 | 92696.58 | 247094.70 | 266562.92 | 9.9670637 | 10.3928634 |
| 57 | 92685.66 | 246888.16 | 266371.48 | 9.9670125 | 10.3925003 |
| 56 | 92674.73 | 246681.91 | 266180.33 | 9.9669614 | 10.3921373 |
| 55 | 92663.80 | 246475.96 | 265989.47 | 9.9669101 | 10.3917746 |
| 54 | 92652.86 | 246270.30 | 265798.91 | 9.9668588 | 10.3914120 |
| 53 | 92641.91 | 246064.94 | 265608.65 | 9.9668075 | 10.3910497 |
| 52 | 92630.96 | 245859.87 | 265418.68 | 9.9667562 | 10.3906876 |
| 51 | 92620.00 | 245655.09 | 265229.01 | 9.9667048 | 10.3903258 |
| 50 | 92609.03 | 245450.61 | 265039.62 | 9.9666533 | 10.3899641 |
| 49 | 92598.05 | 245246.42 | 264850.54 | 9.9666018 | 10.3896027 |
| 48 | 92587.06 | 245042.52 | 264661.74 | 9.9665503 | 10.3892414 |
| 47 | 92576.06 | 244838.91 | 264473.23 | 9.9664987 | 10.3888804 |
| 46 | 92565.06 | 244635.59 | 264285.02 | 9.9664471 | 10.3885196 |
| 45 | 92554.05 | 244432.56 | 264097.09 | 9.9663954 | 10.3881591 |
| 44 | 92543.03 | 244229.82 | 263909.46 | 9.9663437 | 10.3877987 |
| 43 | 92532.00 | 244027.36 | 263722.11 | 9.9662920 | 10.3874385 |
| 42 | 92520.97 | 243825.19 | 263535.05 | 9.9662402 | 10.3870786 |
| 41 | 92509.93 | 243623.31 | 263348.28 | 9.9661884 | 10.3867188 |
| 40 | 92498.88 | 243421.72 | 263161.80 | 9.9661365 | 10.3863593 |
| 39 | 92487.82 | 243220.41 | 262975.60 | 9.9660846 | 10.3860000 |
| 38 | 92476.75 | 243019.38 | 262789.69 | 9.9660326 | 10.3856409 |
| 37 | 92465.68 | 242818.64 | 262604.06 | 9.9659806 | 10.3852820 |
| 36 | 92454.60 | 242618.19 | 262418.72 | 9.9659285 | 10.3849234 |
| 35 | 92443.51 | 242418.01 | 262233.66 | 9.9658764 | 10.3845649 |
| 34 | 92432.41 | 242218.12 | 262048.88 | 9.9658243 | 10.3842066 |
| 33 | 92421.31 | 242018.51 | 261864.39 | 9.9657721 | 10.3838486 |
| 32 | 92410.20 | 241819.18 | 261680.18 | 9.9657199 | 10.3834907 |
| 31 | 92399.08 | 241620.13 | 261496.24 | 9.9656677 | 10.3831331 |
| 30 | 92387.95 | 241421.36 | 261312.59 | 9.9656153 | 10.3827757 |

22 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 38268.34 | 41421.36 | 108239.22 | 9.5828397 | 9.6172243 |
| 38295.22 | 41455.44 | 108252.27 | 9.5831445 | 9.6175815 |
| 38322.09 | 41489.53 | 108265.33 | 9.5834491 | 9.6179385 |
| 38348.95 | 41523.63 | 108278.40 | 9.5837535 | 9.6182953 |
| 38375.82 | 41557.74 | 108291.49 | 9.5840576 | 9.6186519 |
| 38402.68 | 41591.86 | 108304.58 | 9.5843615 | 9.6189083 |
| 38429.53 | 41625.99 | 108317.69 | 9.5846651 | 9.6191645 |
| 38456.39 | 41660.12 | 108330.81 | 9.5849685 | 9.6194205 |
| 38483.24 | 41694.26 | 108343.95 | 9.5852716 | 9.6196762 |
| 38510.08 | 41728.41 | 108357.09 | 9.5855745 | 9.6204318 |
| 38536.93 | 41762.57 | 108370.25 | 9.5858771 | 9.6207872 |
| 38563.77 | 41796.74 | 108383.42 | 9.5861795 | 9.6211423 |
| 38590.60 | 41830.91 | 108396.61 | 9.5864816 | 9.6214973 |
| 38617.44 | 41865.09 | 108409.80 | 9.5867835 | 9.6218520 |
| 38644.27 | 41899.28 | 108423.01 | 9.5870851 | 9.6222066 |
| 38671.10 | 41933.48 | 108436.23 | 9.5873865 | 9.6225609 |
| 38697.92 | 41967.69 | 108449.47 | 9.5876876 | 9.6229150 |
| 38724.74 | 42001.91 | 108462.71 | 9.5879885 | 9.6232690 |
| 38751.56 | 42036.13 | 108475.97 | 9.5882892 | 9.6236227 |
| 38778.37 | 42070.36 | 108489.24 | 9.5885896 | 9.6239763 |
| 38805.18 | 42104.60 | 108502.52 | 9.5888897 | 9.6243296 |
| 38831.99 | 42138.85 | 108515.82 | 9.5891897 | 9.6246827 |
| 38858.80 | 42173.11 | 108529.13 | 9.5894893 | 9.6250356 |
| 38885.60 | 42207.38 | 108542.45 | 9.5897888 | 9.6253884 |
| 38912.39 | 42241.66 | 108555.78 | 9.5900880 | 9.6257409 |
| 38939.19 | 42275.94 | 108569.12 | 9.5903869 | 9.6260932 |
| 38965.98 | 42310.23 | 108582.48 | 9.5906856 | 9.6264454 |
| 38992.77 | 42344.53 | 108595.85 | 9.5909841 | 9.6267973 |
| 39019.55 | 42378.84 | 108609.24 | 9.5912823 | 9.6271491 |
| 39046.33 | 42413.16 | 108622.63 | 9.5915803 | 9.6275006 |
| 39073.11 | 42447.49 | 108636.04 | 9.5918780 | 9.6278519 |

67 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 92387.95 | 241421.36 | 261312.59 | 9.9656153 | 10.3827757 |
| 29 | 92376.81 | 241322.86 | 261129.22 | 9.9655630 | 10.3824185 |
| 28 | 92365.67 | 241024.65 | 260946.13 | 9.9655106 | 10.3820615 |
| 27 | 92354.52 | 240826.72 | 260763.32 | 9.9654582 | 10.3817047 |
| 26 | 92343.36 | 240629.06 | 260580.78 | 9.9654057 | 10.3813481 |
| 25 | 92332.19 | 240431.68 | 260398.52 | 9.9653532 | 10.3809917 |
| 24 | 92321.02 | 240234.57 | 260216.54 | 9.9653006 | 10.3806355 |
| 23 | 92309.84 | 240037.74 | 260034.84 | 9.9652480 | 10.3802795 |
| 22 | 92298.65 | 239841.18 | 259853.41 | 9.9651953 | 10.3799238 |
| 21 | 92287.45 | 239644.90 | 259672.25 | 9.9651426 | 10.3795682 |
| 20 | 92276.24 | 239448.89 | 259491.37 | 9.9650899 | 10.3792128 |
| 19 | 92265.03 | 239253.16 | 259310.77 | 9.9650371 | 10.3788577 |
| 18 | 92253.81 | 239057.69 | 259130.43 | 9.9649843 | 10.3785027 |
| 17 | 92242.58 | 238862.59 | 258950.37 | 9.9649314 | 10.3781480 |
| 16 | 92231.34 | 238667.58 | 258770.58 | 9.9648785 | 10.3777934 |
| 15 | 92220.09 | 238472.93 | 258591.07 | 9.9648256 | 10.3774391 |
| 14 | 92208.84 | 238278.55 | 258411.82 | 9.9647726 | 10.3770850 |
| 13 | 92197.58 | 238084.44 | 258232.84 | 9.9647195 | 10.3767310 |
| 12 | 92186.31 | 237890.60 | 258054.14 | 9.9646665 | 10.3763773 |
| 11 | 92175.03 | 237697.03 | 257875.70 | 9.9646133 | 10.3760237 |
| 10 | 92163.75 | 237503.72 | 257697.53 | 9.9645602 | 10.3756704 |
| 9 | 92152.46 | 237310.68 | 257519.63 | 9.9645069 | 10.3753173 |
| 8 | 92141.16 | 237117.91 | 257341.99 | 9.9644537 | 10.3749644 |
| 7 | 92129.85 | 236925.40 | 257164.62 | 9.9644004 | 10.3746116 |
| 6 | 92118.54 | 236733.16 | 256987.52 | 9.9643470 | 10.3742591 |
| 5 | 92107.22 | 236541.18 | 256810.69 | 9.9642937 | 10.3739068 |
| 4 | 92095.89 | 236349.46 | 256634.12 | 9.9642402 | 10.3735546 |
| 3 | 92084.55 | 236158.01 | 256457.81 | 9.9641868 | 10.3732027 |
| 2 | 92073.20 | 235966.83 | 256281.76 | 9.9641332 | 10.3728505 |
| 1 | 92061.85 | 235775.90 | 256105.99 | 9.9640797 | 10.3724994 |
| 0 | 92050.49 | 235585.24 | 255930.47 | 9.9640261 | 10.3721481 |

23 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 39073.11 | 42447.49 | 108636.04 | 9.5918780 | 9.6278519 |
| 1 | 39099.89 | 42481.82 | 108649.46 | 9.5921755 | 9.6282031 |
| 2 | 39126.66 | 42516.16 | 108662.89 | 9.5924728 | 9.6285540 |
| 3 | 39153.43 | 42550.51 | 108676.34 | 9.5927698 | 9.6289048 |
| 4 | 39180.19 | 42584.87 | 108689.79 | 9.5930666 | 9.6292553 |
| 5 | 39206.95 | 42619.24 | 108703.26 | 9.5933631 | 9.6296057 |
| 6 | 39233.71 | 42653.62 | 108716.75 | 9.5936594 | 9.6299558 |
| 7 | 39260.47 | 42688.00 | 108730.24 | 9.5939555 | 9.6303058 |
| 8 | 39287.22 | 42722.39 | 108743.75 | 9.5942513 | 9.6306556 |
| 9 | 39313.97 | 42756.79 | 108757.27 | 9.5945469 | 9.6310052 |
| 10 | 39340.71 | 42791.20 | 108770.80 | 9.5948422 | 9.6313545 |
| 11 | 39367.45 | 42825.62 | 108784.35 | 9.5951373 | 9.6317037 |
| 12 | 39394.19 | 42860.05 | 108797.91 | 9.5954322 | 9.6320527 |
| 13 | 39420.93 | 42894.49 | 108811.48 | 9.5957268 | 9.6324015 |
| 14 | 39447.66 | 42928.94 | 108825.06 | 9.5960212 | 9.6327501 |
| 15 | 39474.39 | 42963.39 | 108838.66 | 9.5963154 | 9.6330985 |
| 16 | 39501.11 | 42997.85 | 108852.27 | 9.5966093 | 9.6334468 |
| 17 | 39527.83 | 43032.32 | 108865.89 | 9.5969030 | 9.6337948 |
| 18 | 39554.55 | 43066.80 | 108879.52 | 9.5971965 | 9.6341426 |
| 19 | 39581.27 | 43101.29 | 108893.17 | 9.5974897 | 9.6344903 |
| 20 | 39607.98 | 43135.79 | 108906.83 | 9.5977827 | 9.6348378 |
| 21 | 39634.69 | 43170.30 | 108920.50 | 9.5980754 | 9.6351850 |
| 22 | 39661.39 | 43204.81 | 108934.18 | 9.5983679 | 9.6355321 |
| 23 | 39688.09 | 43239.33 | 108947.88 | 9.5986602 | 9.6358790 |
| 24 | 39714.79 | 43273.86 | 108961.59 | 9.5989523 | 9.6362257 |
| 25 | 39741.48 | 43308.40 | 108975.31 | 9.5992441 | 9.6365722 |
| 26 | 39768.17 | 43342.95 | 108989.04 | 9.5995357 | 9.6369185 |
| 27 | 39794.86 | 43377.51 | 109002.79 | 9.5998271 | 9.6372646 |
| 28 | 39821.55 | 43412.08 | 109016.55 | 9.6001181 | 9.6376106 |
| 29 | 39848.23 | 43446.66 | 109030.32 | 9.6004090 | 9.6379563 |
| 30 | 39874.91 | 43481.24 | 109044.11 | 9.6006997 | 9.6383019 |

66 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 92050.49 | 235585.24 | 255930.47 | 9.9640261 | 10.3721481 |
| 59 | 92039.12 | 235394.83 | 255755.21 | 9.9639724 | 10.3717965 |
| 58 | 92027.74 | 235204.69 | 255580.22 | 9.9639187 | 10.3714460 |
| 57 | 92016.35 | 235014.81 | 255405.48 | 9.9638650 | 10.3710952 |
| 56 | 92004.96 | 234825.19 | 255231.01 | 9.9638112 | 10.3707447 |
| 55 | 91993.56 | 234635.82 | 255056.80 | 9.9637574 | 10.3703943 |
| 54 | 91982.15 | 234446.72 | 254882.84 | 9.9637036 | 10.3700442 |
| 53 | 91970.73 | 234257.87 | 254709.15 | 9.9636496 | 10.3696942 |
| 52 | 91959.31 | 234069.28 | 254535.71 | 9.9635957 | 10.3693444 |
| 51 | 91947.88 | 233880.95 | 254362.53 | 9.9635417 | 10.3689948 |
| 50 | 91936.44 | 233692.87 | 254189.61 | 9.9634877 | 10.3686455 |
| 49 | 91924.99 | 233505.05 | 254016.94 | 9.9634336 | 10.3682963 |
| 48 | 91913.53 | 233317.48 | 253844.53 | 9.9633795 | 10.3679473 |
| 47 | 91902.07 | 233130.17 | 253672.38 | 9.9633253 | 10.3675985 |
| 46 | 91890.60 | 232943.11 | 253500.48 | 9.9632711 | 10.3672499 |
| 45 | 91879.12 | 232756.30 | 253328.83 | 9.9632168 | 10.3669015 |
| 44 | 91867.63 | 232569.75 | 253157.44 | 9.9631625 | 10.3665532 |
| 43 | 91856.14 | 232383.45 | 252986.30 | 9.9631082 | 10.3662052 |
| 42 | 91844.64 | 232197.40 | 252815.41 | 9.9630538 | 10.3658574 |
| 41 | 91833.13 | 232011.60 | 252644.78 | 9.9629994 | 10.3655097 |
| 40 | 91821.61 | 231826.06 | 252474.40 | 9.9629449 | 10.3651622 |
| 39 | 91810.08 | 231640.76 | 252304.26 | 9.9628904 | 10.3648150 |
| 38 | 91798.55 | 231455.71 | 252134.38 | 9.9628358 | 10.3644679 |
| 37 | 91787.01 | 231270.91 | 251964.75 | 9.9627812 | 10.3641210 |
| 36 | 91775.46 | 231086.36 | 251795.37 | 9.9627266 | 10.3637743 |
| 35 | 91763.90 | 230902.06 | 251626.24 | 9.9626719 | 10.3634278 |
| 34 | 91752.34 | 230718.01 | 251457.35 | 9.9626172 | 10.3630815 |
| 33 | 91740.77 | 230534.20 | 251288.71 | 9.9625624 | 10.3627354 |
| 32 | 91729.19 | 230350.64 | 251120.32 | 9.9625076 | 10.3623894 |
| 31 | 91717.60 | 230167.32 | 250952.18 | 9.9624527 | 10.3620437 |
| 30 | 91706.01 | 229984.25 | 250784.28 | 9.9623978 | 10.3616981 |

24 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 40673.66 | 44522.87 | 109463.63 | 9.6093133 | 9.6485831 |
| 1 | 40700.23 | 44557.73 | 109477.81 | 9.6095969 | 9.6489230 |
| 2 | 40726.80 | 44592.60 | 109492.01 | 9.6098803 | 9.6492628 |
| 3 | 40753.37 | 44627.48 | 109506.22 | 9.6101635 | 9.6496023 |
| 4 | 40779.93 | 44662.37 | 109520.44 | 9.6104465 | 9.6499417 |
| 5 | 40806.49 | 44697.27 | 109534.67 | 9.6107293 | 9.6502809 |
| 6 | 40833.05 | 44732.17 | 109548.92 | 9.6110118 | 9.6506199 |
| 7 | 40859.60 | 44767.08 | 109563.18 | 9.6112941 | 9.6509587 |
| 8 | 40886.15 | 44802.00 | 109577.46 | 9.6115762 | 9.6512974 |
| 9 | 40912.69 | 44836.93 | 109591.74 | 9.6118580 | 9.6516359 |
| 10 | 40939.23 | 44871.87 | 109606.04 | 9.6121397 | 9.6519742 |
| 11 | 40965.77 | 44906.82 | 109620.36 | 9.6124211 | 9.6523123 |
| 12 | 40992.30 | 44941.78 | 109634.68 | 9.6127023 | 9.6526503 |
| 13 | 41018.83 | 44976.75 | 109649.02 | 9.6129833 | 9.6529881 |
| 14 | 41045.36 | 45011.73 | 109663.37 | 9.6132641 | 9.6533257 |
| 15 | 41071.89 | 45046.72 | 109677.74 | 9.6135446 | 9.6536631 |
| 16 | 41098.41 | 45081.72 | 109692.12 | 9.6138250 | 9.6540004 |
| 17 | 41124.93 | 45116.73 | 109706.51 | 9.6141051 | 9.6543375 |
| 18 | 41151.44 | 45151.74 | 109720.91 | 9.6143850 | 9.6546744 |
| 19 | 41177.95 | 45186.76 | 109735.33 | 9.6146647 | 9.6550112 |
| 20 | 41204.46 | 45221.79 | 109749.76 | 9.6149441 | 9.6553477 |
| 21 | 41230.96 | 45256.83 | 109764.20 | 9.6152234 | 9.6556841 |
| 22 | 41257.46 | 45291.88 | 109778.66 | 9.6155024 | 9.6560204 |
| 23 | 41283.95 | 45326.94 | 109793.13 | 9.6157812 | 9.6563564 |
| 24 | 41310.44 | 45362.01 | 109807.61 | 9.6160598 | 9.6566923 |
| 25 | 41336.93 | 45397.09 | 109822.11 | 9.6163382 | 9.6570280 |
| 26 | 41363.42 | 45432.18 | 109836.62 | 9.6166164 | 9.6573636 |
| 27 | 41389.90 | 45467.28 | 109851.14 | 9.6168944 | 9.6576989 |
| 28 | 41416.38 | 45502.39 | 109865.68 | 9.6171721 | 9.6580341 |
| 29 | 41442.85 | 45537.51 | 109880.23 | 9.6174496 | 9.6583692 |
| 30 | 41469.32 | 45572.64 | 109894.79 | 9.6177270 | 9.6587041 |

65 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 91354.54 | 224603.68 | 245859.33 | 9.9607302 | 10.351416 |
| 59 | 91342.71 | 224427.96 | 245698.82 | 9.9606739 | 10.351077 |
| 58 | 91330.87 | 224252.47 | 245538.53 | 9.9606176 | 10.350737 |
| 57 | 91319.02 | 224077.21 | 245378.48 | 9.9605612 | 10.350397 |
| 56 | 91307.16 | 223902.18 | 245218.65 | 9.9605048 | 10.350058 |
| 55 | 91295.29 | 223727.38 | 245059.05 | 9.9604484 | 10.349719 |
| 54 | 91283.42 | 223552.80 | 244899.68 | 9.9603919 | 10.349380 |
| 53 | 91271.54 | 223378.45 | 244740.54 | 9.9603354 | 10.349041 |
| 52 | 91259.65 | 223204.33 | 244581.63 | 9.9602788 | 10.348702 |
| 51 | 91247.75 | 223030.43 | 244422.94 | 9.9602222 | 10.348364 |
| 50 | 91235.84 | 222856.76 | 244264.48 | 9.9601655 | 10.348025 |
| 49 | 91223.93 | 222683.31 | 244106.24 | 9.9601088 | 10.347687 |
| 48 | 91212.01 | 222510.09 | 243948.23 | 9.9600520 | 10.347349 |
| 47 | 91200.08 | 222337.09 | 243790.45 | 9.9599952 | 10.347011 |
| 46 | 91188.14 | 222164.32 | 243632.89 | 9.9599384 | 10.346674 |
| 45 | 91176.20 | 221991.77 | 243475.55 | 9.9598815 | 10.346336 |
| 44 | 91164.25 | 221819.44 | 243318.44 | 9.9598246 | 10.345999 |
| 43 | 91152.29 | 221647.33 | 243161.55 | 9.9597676 | 10.345662 |
| 42 | 91140.32 | 221475.45 | 243004.89 | 9.9597106 | 10.345325 |
| 41 | 91128.35 | 221303.79 | 242848.44 | 9.9596535 | 10.344988 |
| 40 | 91116.37 | 221132.34 | 242692.22 | 9.9595964 | 10.344652 |
| 39 | 91104.38 | 220961.12 | 242536.22 | 9.9595393 | 10.344315 |
| 38 | 91092.38 | 220790.12 | 242380.44 | 9.9594821 | 10.343979 |
| 37 | 91080.38 | 220619.34 | 242224.88 | 9.9594248 | 10.343643 |
| 36 | 91068.37 | 220448.78 | 242069.54 | 9.9593675 | 10.343307 |
| 35 | 91056.35 | 220278.43 | 241914.42 | 9.9593102 | 10.342972 |
| 34 | 91044.32 | 220108.31 | 241759.52 | 9.9592528 | 10.342638 |
| 33 | 91032.28 | 219938.40 | 241604.84 | 9.9591954 | 10.342301 |
| 32 | 91020.24 | 219768.71 | 241450.38 | 9.9591380 | 10.341966 |
| 31 | 91008.19 | 219599.23 | 241296.13 | 9.9590805 | 10.341631 |
| 30 | 90996.13 | 219429.97 | 241142.10 | 9.9590229 | 10.341291 |

24 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | +1469.32 | +5572.64 | 109894.79 | 9.6177270 | 9.6587041 |
| 31 | +1495.79 | +5607.77 | 109909.36 | 9.6180041 | 9.6590387 |
| 32 | +1522.26 | +5642.91 | 109923.95 | 9.6182809 | 9.6593733 |
| 33 | +1548.72 | +5678.06 | 109938.55 | 9.6185576 | 9.6597076 |
| 34 | +1575.18 | +5713.22 | 109953.17 | 9.6188341 | 9.6600418 |
| 35 | +1601.63 | +5748.39 | 109967.79 | 9.6191103 | 9.6603758 |
| 36 | +1628.08 | +5783.57 | 109982.43 | 9.6193864 | 9.6607097 |
| 37 | +1654.53 | +5818.76 | 109997.09 | 9.6196622 | 9.6610434 |
| 38 | +1680.97 | +5853.96 | 110011.76 | 9.6199378 | 9.6613769 |
| 39 | +1707.41 | +5889.17 | 110026.44 | 9.6202132 | 9.6617103 |
| 40 | +1733.85 | +5924.39 | 110041.13 | 9.6204884 | 9.6620434 |
| 41 | +1760.28 | +5959.62 | 110055.84 | 9.6207635 | 9.6623765 |
| 42 | +1786.71 | +5994.86 | 110070.56 | 9.6210382 | 9.6627093 |
| 43 | +1813.13 | +6030.11 | 110085.29 | 9.6213127 | 9.6630420 |
| 44 | +1839.55 | +6065.37 | 110100.04 | 9.6215871 | 9.6633745 |
| 45 | +1865.97 | +6100.64 | 110114.80 | 9.6218612 | 9.6637069 |
| 46 | +1892.39 | +6135.91 | 110129.57 | 9.6221351 | 9.6640391 |
| 47 | +1918.80 | +6171.19 | 110144.36 | 9.6224088 | 9.6643711 |
| 48 | +1945.21 | +6206.48 | 110159.16 | 9.6226824 | 9.6647030 |
| 49 | +1971.61 | +6241.78 | 110173.97 | 9.6229557 | 9.6650346 |
| 50 | +1998.01 | +6277.09 | 110188.79 | 9.6232287 | 9.6653662 |
| 51 | +2024.41 | +6312.42 | 110203.63 | 9.6235016 | 9.6656975 |
| 52 | +2050.80 | +6347.76 | 110218.49 | 9.6237743 | 9.6660288 |
| 53 | +2077.19 | +6383.11 | 110233.35 | 9.6240467 | 9.6663598 |
| 54 | +2103.58 | +6418.46 | 110248.23 | 9.6243190 | 9.6666907 |
| 55 | +2129.96 | +6453.82 | 110263.13 | 9.6245911 | 9.6670214 |
| 56 | +2156.34 | +6489.19 | 110278.03 | 9.6248629 | 9.6673519 |
| 57 | +2182.72 | +6524.57 | 110292.95 | 9.6251346 | 9.6676823 |
| 58 | +2209.09 | +6559.96 | 110307.89 | 9.6254060 | 9.6680126 |
| 59 | +2235.46 | +6595.36 | 110322.83 | 9.6256772 | 9.6683426 |
| 60 | +2261.83 | +6630.77 | 110337.79 | 9.6259483 | 9.6686725 |

65 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 90996.13 | 219429.97 | 241142.10 | 9.9590229 | 10.3412960 |
| 29 | 90984.06 | 219260.93 | 240988.29 | 9.9589653 | 10.3409611 |
| 28 | 90971.98 | 219092.10 | 240834.69 | 9.9589077 | 10.3406262 |
| 27 | 90959.90 | 218923.49 | 240681.32 | 9.9588500 | 10.3402922 |
| 26 | 90947.81 | 218755.10 | 240528.15 | 9.9587923 | 10.3399582 |
| 25 | 90935.71 | 218586.91 | 240375.20 | 9.9587345 | 10.3396242 |
| 24 | 90923.61 | 218418.94 | 240222.47 | 9.9586767 | 10.3392902 |
| 23 | 90911.50 | 218251.19 | 240069.95 | 9.9586188 | 10.3389562 |
| 22 | 90899.38 | 218083.64 | 239917.64 | 9.9585609 | 10.3386223 |
| 21 | 90887.25 | 217916.31 | 239765.55 | 9.9585030 | 10.3382883 |
| 20 | 90875.11 | 217749.20 | 239613.67 | 9.9584450 | 10.3379543 |
| 19 | 90862.97 | 217582.29 | 239462.01 | 9.9583869 | 10.3376203 |
| 18 | 90850.82 | 217415.59 | 239310.55 | 9.9583288 | 10.3372863 |
| 17 | 90838.66 | 217249.11 | 239159.31 | 9.9582707 | 10.3369523 |
| 16 | 90826.49 | 217082.83 | 239008.28 | 9.9582125 | 10.3366183 |
| 15 | 90814.32 | 216916.77 | 238857.46 | 9.9581543 | 10.3362843 |
| 14 | 90802.14 | 216750.91 | 238706.85 | 9.9580961 | 10.3359503 |
| 13 | 90789.95 | 216585.27 | 238556.45 | 9.9580378 | 10.3356163 |
| 12 | 90777.75 | 216419.83 | 238406.25 | 9.9579794 | 10.3352823 |
| 11 | 90765.54 | 216254.60 | 238256.27 | 9.9579210 | 10.3349483 |
| 10 | 90753.33 | 216089.58 | 238106.50 | 9.9578626 | 10.3346143 |
| 9 | 90741.11 | 215924.76 | 237956.93 | 9.9578041 | 10.3342803 |
| 8 | 90728.88 | 215760.15 | 237807.58 | 9.9577456 | 10.3339463 |
| 7 | 90716.64 | 215595.75 | 237658.43 | 9.9576870 | 10.3336123 |
| 6 | 90704.40 | 215431.56 | 237509.49 | 9.9576284 | 10.3332783 |
| 5 | 90692.15 | 215267.57 | 237360.75 | 9.9575697 | 10.3329443 |
| 4 | 90679.89 | 215103.78 | 237212.22 | 9.9575110 | 10.3326103 |
| 3 | 90667.62 | 214940.20 | 237063.90 | 9.9574522 | 10.3322763 |
| 2 | 90655.35 | 214776.83 | 236915.78 | 9.9573934 | 10.3319423 |
| 1 | 90643.07 | 214613.66 | 236767.87 | 9.9573346 | 10.3316083 |
| 0 | 90630.78 | 214450.69 | 236620.16 | 9.9572757 | 10.3312743 |

25 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 42261.83 | 46630.77 | 110337.79 | 9.6259483 | 9.6686725 |
| 42288.19 | 46666.19 | 110352.77 | 9.6262191 | 9.6690023 |
| 42314.55 | 46701.62 | 110367.75 | 9.6264897 | 9.6693319 |
| 42340.90 | 46737.06 | 110382.75 | 9.6267601 | 9.6696613 |
| 42367.25 | 46772.51 | 110397.77 | 9.6270303 | 9.6699906 |
| 42393.60 | 46807.97 | 110412.79 | 9.6273003 | 9.6703197 |
| 42419.94 | 46843.43 | 110427.83 | 9.6275701 | 9.6706486 |
| 42446.28 | 46878.90 | 110442.89 | 9.6278397 | 9.6709774 |
| 42472.62 | 46914.38 | 110457.95 | 9.6281090 | 9.6713060 |
| 42498.95 | 46949.88 | 110473.03 | 9.6283782 | 9.6716345 |
| 42525.28 | 46985.39 | 110488.13 | 9.6286472 | 9.6719628 |
| 42551.61 | 47020.90 | 110503.24 | 9.6289160 | 9.6722910 |
| 42577.93 | 47056.43 | 110518.36 | 9.6291845 | 9.6726190 |
| 42604.25 | 47091.96 | 110533.49 | 9.6294529 | 9.6729468 |
| 42630.56 | 47127.51 | 110548.64 | 9.6297211 | 9.6732745 |
| 42656.87 | 47163.06 | 110563.80 | 9.6299890 | 9.6736020 |
| 42683.18 | 47198.63 | 110578.98 | 9.6302568 | 9.6739294 |
| 42709.49 | 47234.20 | 110594.17 | 9.6305243 | 9.6742566 |
| 42735.79 | 47269.78 | 110609.37 | 9.6307917 | 9.6745836 |
| 42762.09 | 47305.38 | 110624.58 | 9.6310589 | 9.6749105 |
| 42788.38 | 47340.98 | 110639.81 | 9.6313258 | 9.6752372 |
| 42814.67 | 47376.59 | 110655.06 | 9.6315926 | 9.6755638 |
| 42840.95 | 47412.22 | 110670.31 | 9.6318591 | 9.6758902 |
| 42867.23 | 47447.85 | 110685.58 | 9.6321255 | 9.6762165 |
| 42893.51 | 47483.49 | 110700.87 | 9.6323916 | 9.6765426 |
| 42919.79 | 47519.14 | 110716.16 | 9.6326576 | 9.6768686 |
| 42946.06 | 47554.81 | 110731.47 | 9.6329233 | 9.6771944 |
| 42972.33 | 47590.48 | 110746.80 | 9.6331889 | 9.6775201 |
| 42998.59 | 47626.16 | 110762.14 | 9.6334542 | 9.6778456 |
| 43024.85 | 47661.85 | 110777.49 | 9.6337194 | 9.6781709 |
| 43051.11 | 47697.55 | 110792.85 | 9.6339844 | 9.6784961 |

64 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Ta |
|--------|----------|-----------|-----------|-----------|---------|
| 60 | 90630.78 | 214450.65 | 236620.16 | 9.9572757 | 10.3313 |
| 59 | 90618.48 | 214287.93 | 236472.65 | 9.9572168 | 10.3309 |
| 58 | 90606.17 | 214125.37 | 236325.35 | 9.9571578 | 10.3306 |
| 57 | 90593.86 | 213963.01 | 236178.26 | 9.9570988 | 10.3303 |
| 56 | 90581.54 | 213800.85 | 236031.36 | 9.9570397 | 10.3300 |
| 55 | 90569.21 | 213638.89 | 235884.67 | 9.9569806 | 10.3296 |
| 54 | 90556.88 | 213477.14 | 235738.18 | 9.9569215 | 10.3293 |
| 53 | 90544.54 | 213315.59 | 235591.89 | 9.9568623 | 10.3290 |
| 52 | 90532.19 | 213154.23 | 235445.81 | 9.9568030 | 10.3286 |
| 51 | 90519.83 | 212993.08 | 235299.92 | 9.9567437 | 10.3283 |
| 50 | 90507.46 | 212832.13 | 235154.24 | 9.9566844 | 10.3280 |
| 49 | 90495.09 | 212671.37 | 235008.75 | 9.9566250 | 10.3277 |
| 48 | 90482.71 | 212510.82 | 234863.47 | 9.9565656 | 10.3273 |
| 47 | 90470.32 | 212350.46 | 234718.38 | 9.9565061 | 10.3270 |
| 46 | 90457.92 | 212190.30 | 234573.49 | 9.9564466 | 10.3267 |
| 45 | 90445.51 | 212030.34 | 234428.80 | 9.9563870 | 10.3263 |
| 44 | 90433.10 | 211870.57 | 234284.31 | 9.9563274 | 10.3260 |
| 43 | 90420.68 | 211711.01 | 234140.02 | 9.9562678 | 10.3257 |
| 42 | 90408.25 | 211551.64 | 233995.93 | 9.9562081 | 10.3254 |
| 41 | 90395.82 | 211392.46 | 233852.03 | 9.9561483 | 10.3250 |
| 40 | 90383.38 | 211233.48 | 233708.33 | 9.9560886 | 10.3247 |
| 39 | 90370.93 | 211074.70 | 233564.82 | 9.9560287 | 10.3244 |
| 38 | 90358.47 | 210916.11 | 233421.52 | 9.9559689 | 10.3241 |
| 37 | 90346.00 | 210757.71 | 233278.40 | 9.9559089 | 10.3237 |
| 36 | 90333.53 | 210599.51 | 233135.48 | 9.9558490 | 10.3234 |
| 35 | 90321.05 | 210441.50 | 232992.76 | 9.9557890 | 10.3231 |
| 34 | 90308.56 | 210283.69 | 232850.23 | 9.9557289 | 10.3228 |
| 33 | 90296.06 | 210126.07 | 232707.90 | 9.9556688 | 10.3224 |
| 32 | 90283.56 | 209968.64 | 232565.75 | 9.9556087 | 10.3221 |
| 31 | 90271.05 | 209811.40 | 232423.81 | 9.9555485 | 10.3218 |
| 30 | 90258.53 | 209654.36 | 232282.05 | 9.9554882 | 10.3215 |

25 Grad.

Minut

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---|----------|----------|-----------|-----------|------------|
| 0 | 43051.11 | 47697.55 | 110792.85 | 9.6339844 | 9.6784961 |
| 1 | 43077.36 | 47733.26 | 110808.23 | 9.6342491 | 9.6788211 |
| 2 | 43103.61 | 47768.99 | 110823.63 | 9.6345137 | 9.6791460 |
| 3 | 43129.86 | 47804.72 | 110839.03 | 9.6347780 | 9.6794708 |
| 4 | 43156.10 | 47840.46 | 110854.45 | 9.6350422 | 9.6797953 |
| 5 | 43182.34 | 47876.21 | 110869.89 | 9.6353062 | 9.6801198 |
| 6 | 43208.57 | 47911.97 | 110885.33 | 9.6355699 | 9.6804440 |
| 7 | 43234.80 | 47947.74 | 110900.79 | 9.6358335 | 9.6807682 |
| 8 | 43261.03 | 47983.52 | 110916.27 | 9.6360969 | 9.6810921 |
| 9 | 43287.26 | 48019.32 | 110931.76 | 9.6363601 | 9.6814160 |
| 0 | 43313.48 | 48055.12 | 110947.26 | 9.6366231 | 9.6817396 |
| 1 | 43339.70 | 48090.93 | 110962.77 | 9.6368859 | 9.6820632 |
| 2 | 43365.91 | 48126.75 | 110978.30 | 9.6371484 | 9.6823865 |
| 3 | 43392.12 | 48162.58 | 110993.85 | 9.6374108 | 9.6827098 |
| 4 | 43418.33 | 48198.42 | 111009.41 | 9.6376731 | 9.6830328 |
| 5 | 43444.53 | 48234.27 | 111024.98 | 9.6379351 | 9.6833557 |
| 6 | 43470.73 | 48270.14 | 111040.56 | 9.6381969 | 9.6836785 |
| 7 | 43496.92 | 48306.01 | 111056.16 | 9.6384585 | 9.6840011 |
| 8 | 43523.11 | 48341.89 | 111071.77 | 9.6387199 | 9.6843236 |
| 9 | 43549.30 | 48377.78 | 111087.40 | 9.6389812 | 9.6846459 |
| 0 | 43575.48 | 48413.68 | 111103.04 | 9.6392422 | 9.6849681 |
| 1 | 43601.66 | 48449.59 | 111118.69 | 9.6395030 | 9.6852901 |
| 2 | 43627.84 | 48485.52 | 111134.36 | 9.6397637 | 9.6856120 |
| 3 | 43654.01 | 48521.45 | 111150.04 | 9.6400241 | 9.6859338 |
| 4 | 43680.18 | 48557.39 | 111165.73 | 9.6402844 | 9.6862553 |
| 5 | 43706.34 | 48593.34 | 111181.44 | 9.6405445 | 9.6865768 |
| 6 | 43732.50 | 48629.31 | 111197.16 | 9.6408044 | 9.6868981 |
| 7 | 43758.66 | 48665.28 | 111212.90 | 9.6410640 | 9.6872192 |
| 8 | 43784.82 | 48701.26 | 111228.65 | 9.6413235 | 9.6875402 |
| 9 | 43810.97 | 48737.26 | 111244.42 | 9.6415828 | 9.6878611 |
| 0 | 43837.12 | 48773.26 | 111260.19 | 9.6418420 | 9.6881818 |

64 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 90258.53 | 209654.36 | 232282.05 | 9.9554832 | 10.3215039 |
| 29 | 90246.00 | 209497.51 | 232140.49 | 9.9554280 | 10.3211789 |
| 28 | 90233.47 | 209340.84 | 231999.11 | 9.9553676 | 10.3208540 |
| 27 | 90220.93 | 209184.37 | 231857.94 | 9.9553073 | 10.3205292 |
| 26 | 90208.38 | 209028.09 | 231716.95 | 9.9552469 | 10.3202047 |
| 25 | 90195.82 | 208872.00 | 231576.15 | 9.9551864 | 10.3198803 |
| 24 | 90183.25 | 208716.10 | 231435.54 | 9.9551259 | 10.3195560 |
| 23 | 90170.68 | 208560.39 | 231295.13 | 9.9550653 | 10.3192318 |
| 22 | 90158.10 | 208404.86 | 231154.90 | 9.9550047 | 10.3189079 |
| 21 | 90145.51 | 208249.53 | 231014.86 | 9.9549441 | 10.3185840 |
| 20 | 90132.91 | 208094.38 | 230875.01 | 9.9548834 | 10.3182604 |
| 19 | 90120.31 | 207939.42 | 230735.35 | 9.9548227 | 10.3179368 |
| 18 | 90107.70 | 207784.65 | 230595.88 | 9.9547619 | 10.3176135 |
| 17 | 90095.08 | 207630.07 | 230456.60 | 9.9547011 | 10.3172902 |
| 16 | 90082.45 | 207475.67 | 230317.51 | 9.9546402 | 10.3169672 |
| 15 | 90069.82 | 207321.46 | 230178.60 | 9.9545793 | 10.3166443 |
| 14 | 90057.18 | 207167.43 | 230039.88 | 9.9545184 | 10.3163215 |
| 13 | 90044.53 | 207013.59 | 229901.34 | 9.9544574 | 10.3159989 |
| 12 | 90031.87 | 206859.93 | 229762.99 | 9.9543963 | 10.3156764 |
| 11 | 90019.21 | 206706.46 | 229624.83 | 9.9543352 | 10.3153541 |
| 10 | 90006.54 | 206553.18 | 229486.85 | 9.9542741 | 10.3150319 |
| 9 | 89993.86 | 206400.08 | 229349.05 | 9.9542129 | 10.3147095 |
| 8 | 89981.17 | 206247.16 | 229211.45 | 9.9541517 | 10.3143880 |
| 7 | 89968.48 | 206094.42 | 229074.03 | 9.9540904 | 10.3140662 |
| 6 | 89955.78 | 205941.87 | 228936.79 | 9.9540291 | 10.3137447 |
| 5 | 89943.07 | 205789.50 | 228799.74 | 9.9539677 | 10.3134232 |
| 4 | 89930.35 | 205637.32 | 228662.86 | 9.9539063 | 10.3131015 |
| 3 | 89917.62 | 205485.31 | 228526.18 | 9.9538448 | 10.3127808 |
| 2 | 89904.89 | 205333.49 | 228389.67 | 9.9537833 | 10.3124598 |
| 1 | 89892.15 | 205181.84 | 228253.34 | 9.9537218 | 10.3121385 |
| 0 | 89879.40 | 205030.38 | 228117.20 | 9.9536602 | 10.3118182 |

26 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 43837.12 | 48773.26 | 111260.19 | 9.6418420 | 9.6881818 |
| 1 | 43863.26 | 48809.27 | 111275.98 | 9.6421009 | 9.6885023 |
| 2 | 43889.40 | 48845.30 | 111291.79 | 9.6423596 | 9.6888227 |
| 3 | 43915.53 | 48881.33 | 111307.61 | 9.6426182 | 9.6891430 |
| 4 | 43941.66 | 48917.37 | 111323.45 | 9.6428765 | 9.6894631 |
| 5 | 43967.79 | 48953.43 | 111339.30 | 9.6431347 | 9.6897831 |
| 6 | 43993.92 | 48989.49 | 111355.16 | 9.6433926 | 9.6901030 |
| 7 | 44020.04 | 49025.57 | 111371.03 | 9.6436504 | 9.6904226 |
| 8 | 44046.16 | 49061.66 | 111386.92 | 9.6439080 | 9.6907422 |
| 9 | 44072.27 | 49097.75 | 111402.82 | 9.6441654 | 9.6910616 |
| 10 | 44098.38 | 49133.86 | 111418.74 | 9.6444226 | 9.6913809 |
| 11 | 44124.48 | 49169.97 | 111434.67 | 9.6446796 | 9.6917000 |
| 12 | 44150.58 | 49206.10 | 111450.62 | 9.6449365 | 9.6920189 |
| 13 | 44176.68 | 49242.24 | 111466.58 | 9.6451931 | 9.6923378 |
| 14 | 44202.78 | 49278.38 | 111482.55 | 9.6454496 | 9.6926565 |
| 15 | 44228.87 | 49314.54 | 111498.54 | 9.6457058 | 9.6929750 |
| 16 | 44254.96 | 49350.71 | 111514.54 | 9.6459619 | 9.6932934 |
| 17 | 44281.04 | 49386.89 | 111530.56 | 9.6462178 | 9.6936117 |
| 18 | 44307.12 | 49423.08 | 111546.59 | 9.6464735 | 9.6939298 |
| 19 | 44333.20 | 49459.28 | 111562.63 | 9.6467290 | 9.6942478 |
| 20 | 44359.27 | 49495.49 | 111578.69 | 9.6469844 | 9.6945656 |
| 21 | 44385.34 | 49531.71 | 111594.76 | 9.6472395 | 9.6948833 |
| 22 | 44411.40 | 49567.94 | 111610.84 | 9.6474945 | 9.6952009 |
| 23 | 44437.46 | 49604.18 | 111626.94 | 9.6477492 | 9.6955183 |
| 24 | 44463.52 | 49640.43 | 111643.06 | 9.6480038 | 9.6958355 |
| 25 | 44489.57 | 49676.69 | 111659.19 | 9.6482582 | 9.6961527 |
| 26 | 44515.62 | 49712.97 | 111675.33 | 9.6485124 | 9.6964697 |
| 27 | 44541.67 | 49749.25 | 111691.49 | 9.6487665 | 9.6967865 |
| 28 | 44567.71 | 49785.54 | 111707.66 | 9.6490203 | 9.6971032 |
| 29 | 44593.75 | 49821.85 | 111723.84 | 9.6492740 | 9.6974198 |
| 30 | 44619.78 | 49858.16 | 111740.04 | 9.6495274 | 9.6977363 |

63 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 89879.40 | 205030.38 | 228117.20 | 9.9536602 | 10.3118182 |
| 59 | 89866.65 | 204879.10 | 227981.24 | 9.9535985 | 10.3114977 |
| 58 | 89853.89 | 204728.00 | 227845.46 | 9.9535369 | 10.3111772 |
| 57 | 89841.12 | 204577.08 | 227709.86 | 9.9534751 | 10.3108570 |
| 56 | 89828.34 | 204426.34 | 227574.45 | 9.9534134 | 10.3105365 |
| 55 | 89815.55 | 204275.78 | 227439.21 | 9.9533515 | 10.3102165 |
| 54 | 89802.76 | 204125.40 | 227304.15 | 9.9532897 | 10.3098970 |
| 53 | 89789.96 | 203975.19 | 227169.27 | 9.9532278 | 10.3095774 |
| 52 | 89777.15 | 203825.17 | 227034.57 | 9.9531658 | 10.3092578 |
| 51 | 89764.33 | 203675.32 | 226900.05 | 9.9531038 | 10.3089384 |
| 50 | 89751.51 | 203525.65 | 226765.71 | 9.9530418 | 10.3086191 |
| 49 | 89738.68 | 203376.15 | 226631.55 | 9.9529797 | 10.3083000 |
| 48 | 89725.84 | 203226.83 | 226497.56 | 9.9529175 | 10.3079811 |
| 47 | 89712.99 | 203077.69 | 226363.75 | 9.9528553 | 10.3076622 |
| 46 | 89700.13 | 202928.73 | 226230.12 | 9.9527931 | 10.3073434 |
| 45 | 89687.27 | 202779.94 | 226096.67 | 9.9527308 | 10.3070250 |
| 44 | 89674.40 | 202631.33 | 225963.39 | 9.9526685 | 10.3067061 |
| 43 | 89661.52 | 202482.89 | 225830.29 | 9.9526061 | 10.3063882 |
| 42 | 89648.64 | 202334.62 | 225697.36 | 9.9525437 | 10.3060702 |
| 41 | 89635.75 | 202186.53 | 225564.61 | 9.9524813 | 10.3057522 |
| 40 | 89622.85 | 202038.62 | 225432.04 | 9.9524188 | 10.3054344 |
| 39 | 89609.94 | 201890.88 | 225299.64 | 9.9523562 | 10.3051166 |
| 38 | 89597.03 | 201743.31 | 225167.41 | 9.9522936 | 10.3047992 |
| 37 | 89584.11 | 201595.92 | 225035.36 | 9.9522310 | 10.3044817 |
| 36 | 89571.18 | 201448.69 | 224903.48 | 9.9521683 | 10.3041644 |
| 35 | 89558.24 | 201301.64 | 224771.78 | 9.9521055 | 10.3038472 |
| 34 | 89545.29 | 201154.77 | 224640.24 | 9.9520428 | 10.3035300 |
| 33 | 89532.34 | 201008.06 | 224508.89 | 9.9519799 | 10.3032132 |
| 32 | 89519.38 | 200861.53 | 224377.70 | 9.9519171 | 10.3028961 |
| 31 | 89506.41 | 200715.16 | 224246.69 | 9.9518541 | 10.3025802 |
| 30 | 89493.43 | 200568.97 | 224115.84 | 9.9517912 | 10.3022632 |

26 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 44619.78 | 49858.16 | 111740.04 | 9.6495274 | 9.6977363 |
| 31 | 44645.81 | 49894.49 | 111756.25 | 9.6497807 | 9.6980526 |
| 32 | 44671.84 | 49930.82 | 111772.48 | 9.6500338 | 9.6983687 |
| 33 | 44697.86 | 49967.17 | 111788.72 | 9.6502868 | 9.6986847 |
| 34 | 44723.88 | 50003.52 | 111804.98 | 9.6505395 | 9.6990006 |
| 35 | 44749.90 | 50039.89 | 111821.25 | 9.6507920 | 9.6993164 |
| 36 | 44775.91 | 50076.27 | 111837.53 | 9.6510444 | 9.6996320 |
| 37 | 44801.92 | 50112.66 | 111853.83 | 9.6512966 | 9.6999474 |
| 38 | 44827.92 | 50149.06 | 111870.14 | 9.6515486 | 9.7002628 |
| 39 | 44853.92 | 50185.47 | 111886.47 | 9.6518004 | 9.7005780 |
| 40 | 44879.92 | 50221.89 | 111902.81 | 9.6520521 | 9.7008930 |
| 41 | 44905.91 | 50258.32 | 111919.16 | 9.6523035 | 9.7012080 |
| 42 | 44931.90 | 50294.76 | 111935.53 | 9.6525548 | 9.7015227 |
| 43 | 44957.89 | 50331.21 | 111951.91 | 9.6528059 | 9.7018374 |
| 44 | 44983.87 | 50367.67 | 111968.31 | 9.6530568 | 9.7021519 |
| 45 | 45009.85 | 50404.15 | 111984.72 | 9.6533075 | 9.7024663 |
| 46 | 45035.82 | 50440.63 | 112001.15 | 9.6535581 | 9.7027805 |
| 47 | 45061.79 | 50477.13 | 112017.59 | 9.6538084 | 9.7030946 |
| 48 | 45087.76 | 50513.63 | 112034.05 | 9.6540586 | 9.7034086 |
| 49 | 45113.72 | 50550.15 | 112050.52 | 9.6543086 | 9.7037225 |
| 50 | 45139.68 | 50586.68 | 112067.00 | 9.6545584 | 9.7040362 |
| 51 | 45165.63 | 50623.22 | 112083.50 | 9.6548081 | 9.7043497 |
| 52 | 45191.58 | 50659.77 | 112100.01 | 9.6550575 | 9.7046632 |
| 53 | 45217.53 | 50696.33 | 112116.53 | 9.6553068 | 9.7049765 |
| 54 | 45243.47 | 50732.90 | 112133.07 | 9.6555559 | 9.7052897 |
| 55 | 45269.41 | 50769.48 | 112149.63 | 9.6558048 | 9.7056027 |
| 56 | 45295.35 | 50806.07 | 112166.20 | 9.6560536 | 9.7059156 |
| 57 | 45321.28 | 50842.67 | 112182.78 | 9.6563021 | 9.7062284 |
| 58 | 45347.21 | 50879.28 | 112199.38 | 9.6565505 | 9.7065410 |
| 59 | 45373.13 | 50915.91 | 112216.00 | 9.6567987 | 9.7068535 |
| 60 | 45399.05 | 50952.54 | 112232.62 | 9.6570468 | 9.7071659 |

63 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 89493.43 | 200568.97 | 224115.84 | 9.9517912 | 10.302263: |
| 29 | 89480.45 | 200422.95 | 223985.17 | 9.9517282 | 10.301947: |
| 28 | 89467.46 | 200277.10 | 223854.67 | 9.9516651 | 10.301631: |
| 27 | 89454.46 | 200131.42 | 223724.35 | 9.9516020 | 10.301315: |
| 26 | 89441.45 | 199985.90 | 223594.19 | 9.9515389 | 10.300999: |
| 25 | 89428.44 | 199840.56 | 223464.20 | 9.9514757 | 10.300683: |
| 24 | 89415.42 | 199695.39 | 223334.38 | 9.9514124 | 10.300368: |
| 23 | 89402.39 | 199550.38 | 223204.74 | 9.9513492 | 10.300052: |
| 22 | 89389.36 | 199405.54 | 223075.26 | 9.9512858 | 10.299737: |
| 21 | 89376.32 | 199260.87 | 222945.95 | 9.9512224 | 10.299422: |
| 20 | 89363.27 | 199116.37 | 222816.81 | 9.9511590 | 10.299107: |
| 19 | 89350.21 | 198972.04 | 222687.83 | 9.9510956 | 10.298792: |
| 18 | 89337.14 | 198827.87 | 222559.03 | 9.9510320 | 10.298477: |
| 17 | 89324.06 | 198683.87 | 222430.39 | 9.9509685 | 10.298162: |
| 16 | 89310.98 | 198540.03 | 222301.92 | 9.9509049 | 10.297848: |
| 15 | 89297.89 | 198396.36 | 222173.62 | 9.9508412 | 10.297533: |
| 14 | 89284.79 | 198252.86 | 222045.48 | 9.9507775 | 10.297219: |
| 13 | 89271.69 | 198109.52 | 221917.51 | 9.9507138 | 10.296905: |
| 12 | 89258.58 | 197966.35 | 221789.71 | 9.9506500 | 10.296591: |
| 11 | 89245.46 | 197823.34 | 221662.07 | 9.9505861 | 10.296277: |
| 10 | 89232.33 | 197680.50 | 221534.60 | 9.9505223 | 10.295963: |
| 9 | 89219.20 | 197537.82 | 221407.30 | 9.9504583 | 20.295650 |
| 8 | 89206.06 | 197395.31 | 221280.16 | 9.9503944 | 10.295336: |
| 7 | 89192.91 | 197252.96 | 221153.18 | 9.9503303 | 10.295023 |
| 6 | 89179.75 | 197110.77 | 221026.37 | 9.9502663 | 10.294710 |
| 5 | 89166.59 | 196968.74 | 220899.72 | 9.9502022 | 10.294397 |
| 4 | 89153.42 | 196826.88 | 220773.23 | 9.9501380 | 10.294084 |
| 3 | 89140.24 | 196685.18 | 220646.91 | 9.9500738 | 10.293771 |
| 2 | 89127.05 | 196543.64 | 220520.75 | 9.9500095 | 10.293459 |
| 1 | 89113.85 | 196402.27 | 220394.76 | 9.9499452 | 10.293146 |
| 0 | 89100.65 | 196261.05 | 220268.93 | 9.9498809 | 10.292834 |

27 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 45399.05 | 50952.54 | 112232.62 | 9.6570468 | 9.7071659 |
| 45424.97 | 50989.19 | 112249.26 | 9.6572946 | 9.7074781 |
| 45450.88 | 51025.85 | 112265.92 | 9.6575423 | 9.7077902 |
| 45476.79 | 51062.52 | 112282.59 | 9.6577898 | 9.7081022 |
| 45502.69 | 51099.19 | 112299.28 | 9.6580371 | 9.7084141 |
| 45528.59 | 51135.88 | 112315.98 | 9.6582842 | 9.7087258 |
| 45554.49 | 51172.59 | 112332.69 | 9.6585312 | 9.7090374 |
| 45580.38 | 51209.30 | 112349.42 | 9.6587780 | 9.7093488 |
| 45606.27 | 51246.02 | 112366.16 | 9.6590246 | 9.7096601 |
| 45632.16 | 51282.75 | 112382.92 | 9.6592710 | 9.7099713 |
| 45658.04 | 51319.50 | 112399.69 | 9.6595173 | 9.7102824 |
| 45683.92 | 51356.25 | 112416.48 | 9.6597634 | 9.7105933 |
| 45709.79 | 51393.02 | 112433.28 | 9.6600093 | 9.7109041 |
| 45735.66 | 51429.80 | 112450.10 | 9.6602550 | 9.7112148 |
| 45761.53 | 51466.58 | 112466.93 | 9.6605005 | 9.7115254 |
| 45787.39 | 51503.38 | 112483.77 | 9.6607459 | 9.7118358 |
| 45813.25 | 51540.19 | 112500.63 | 9.6609911 | 9.7121461 |
| 45839.10 | 51577.02 | 112517.50 | 9.6612361 | 9.7124562 |
| 45864.95 | 51613.85 | 112534.39 | 9.6614810 | 9.7127662 |
| 45890.80 | 51650.69 | 112551.29 | 9.6617257 | 9.7130761 |
| 45916.64 | 51687.55 | 112568.21 | 9.6619701 | 9.7133859 |
| 45942.48 | 51724.41 | 112585.14 | 9.6622145 | 9.7136956 |
| 45968.32 | 51761.29 | 112602.09 | 9.6624586 | 9.7140051 |
| 45994.15 | 51798.18 | 112619.05 | 9.6627026 | 9.7143145 |
| 46019.98 | 51835.08 | 112636.03 | 9.6629464 | 9.7146237 |
| 46045.80 | 51871.99 | 112653.02 | 9.6631900 | 9.7149329 |
| 46071.62 | 51908.91 | 112670.03 | 9.6634335 | 9.7152419 |
| 46097.44 | 51945.84 | 112687.05 | 9.6636768 | 9.7155508 |
| 46123.25 | 51982.78 | 112704.08 | 9.6639199 | 9.7158595 |
| 46149.06 | 52019.74 | 112721.13 | 9.6641628 | 9.7161682 |
| 46174.86 | 52056.70 | 112738.19 | 9.6644056 | 9.7164767 |

62 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|-----------|-----------|-----------|------------|
| 89100.65 | 196261.05 | 220268.93 | 9.9498809 | 10.2928341 |
| 89087.44 | 196120.00 | 220143.26 | 9.9498165 | 10.2925219 |
| 89074.22 | 195979.10 | 220017.75 | 9.9497521 | 10.2922098 |
| 89061.00 | 195838.37 | 219892.40 | 9.9496876 | 10.2918978 |
| 89047.77 | 195697.80 | 219767.21 | 9.9496230 | 10.2915859 |
| 89034.53 | 195557.39 | 219642.19 | 9.9495585 | 10.2912742 |
| 89021.28 | 195417.13 | 219517.33 | 9.9494938 | 10.2909626 |
| 89008.02 | 195277.04 | 219392.62 | 9.9494292 | 10.2906512 |
| 88994.76 | 195137.11 | 219268.08 | 9.9493645 | 10.2903399 |
| 88981.49 | 194997.33 | 219143.70 | 9.9492997 | 10.2900287 |
| 88968.21 | 194857.71 | 219019.47 | 9.9492349 | 10.2897176 |
| 88954.93 | 194718.26 | 218895.41 | 9.9491700 | 10.2894067 |
| 88941.64 | 194578.96 | 218771.50 | 9.9491051 | 10.2890959 |
| 88928.34 | 194439.81 | 218647.75 | 9.9490402 | 10.2887852 |
| 88915.03 | 194300.83 | 218524.17 | 9.9489752 | 10.2884746 |
| 88901.71 | 194162.00 | 218400.74 | 9.9489101 | 10.2881642 |
| 88888.39 | 194023.33 | 218277.46 | 9.9488450 | 10.2878539 |
| 88875.06 | 193884.81 | 218154.35 | 9.9487799 | 10.2875438 |
| 88861.72 | 193746.45 | 218031.39 | 9.9487147 | 10.2872338 |
| 88848.37 | 193608.25 | 217908.59 | 9.9486495 | 10.2869239 |
| 88835.02 | 193470.20 | 217785.94 | 9.9485842 | 10.2866141 |
| 88821.66 | 193332.31 | 217663.46 | 9.9485189 | 10.2863044 |
| 88808.29 | 193194.57 | 217541.12 | 9.9484535 | 10.2859949 |
| 88794.92 | 193056.98 | 217418.95 | 9.9483881 | 10.2856855 |
| 88781.54 | 192919.56 | 217296.93 | 9.9483227 | 10.2853763 |
| 88768.15 | 192782.28 | 217175.06 | 9.9482572 | 10.2850671 |
| 88754.75 | 192645.16 | 217053.35 | 9.9481916 | 10.2847581 |
| 88741.34 | 192508.19 | 216931.80 | 9.9481260 | 10.2844492 |
| 88727.93 | 192371.38 | 216810.40 | 9.9480604 | 10.2841405 |
| 88714.51 | 192234.72 | 216689.15 | 9.9479947 | 10.2838318 |
| 88701.08 | 192098.21 | 216568.06 | 9.9479289 | 10.2835233 |

27 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 46174.86 | 52056.70 | 112738.19 | 9.6644056 | 9.7164767 |
| 31 | 46200.66 | 52093.68 | 112755.27 | 9.6646482 | 9.7167851 |
| 32 | 46226.46 | 52130.67 | 112772.37 | 9.6648906 | 9.7170933 |
| 33 | 46252.25 | 52167.67 | 112789.48 | 9.6651329 | 9.7174014 |
| 34 | 46278.04 | 52204.68 | 112806.60 | 9.6653749 | 9.7177094 |
| 35 | 46303.82 | 52241.70 | 112823.74 | 9.6656168 | 9.7180173 |
| 36 | 46329.60 | 52278.74 | 112840.89 | 9.6658586 | 9.7183251 |
| 37 | 46355.38 | 52315.78 | 112858.06 | 9.6661001 | 9.7186327 |
| 38 | 46381.15 | 52352.84 | 112875.24 | 9.6663415 | 9.7189402 |
| 39 | 46406.92 | 52389.90 | 112892.44 | 9.6665828 | 9.7192476 |
| 40 | 46432.69 | 52426.98 | 112909.65 | 9.6668238 | 9.7195549 |
| 41 | 46458.45 | 52464.07 | 112926.88 | 9.6670647 | 9.7198620 |
| 42 | 46484.21 | 52501.17 | 112944.12 | 9.6673054 | 9.7201690 |
| 43 | 46509.96 | 52538.29 | 112961.37 | 9.6675459 | 9.7204759 |
| 44 | 46535.71 | 52575.41 | 112978.64 | 9.6677863 | 9.7207827 |
| 45 | 46561.45 | 52612.54 | 112995.93 | 9.6680265 | 9.7210893 |
| 46 | 46587.19 | 52649.69 | 113013.23 | 9.6682665 | 9.7213958 |
| 47 | 46612.93 | 52686.85 | 113030.55 | 9.6685064 | 9.7217022 |
| 48 | 46638.66 | 52724.02 | 113047.88 | 9.6687461 | 9.7220085 |
| 49 | 46664.39 | 52761.20 | 113065.22 | 9.6689856 | 9.7223147 |
| 50 | 46690.12 | 52798.39 | 113082.58 | 9.6692250 | 9.7226207 |
| 51 | 46715.84 | 52835.59 | 113099.96 | 9.6694642 | 9.7229266 |
| 52 | 46741.56 | 52872.81 | 113117.35 | 9.6697032 | 9.7232324 |
| 53 | 46767.27 | 52910.04 | 113134.75 | 9.6699420 | 9.7235381 |
| 54 | 46792.98 | 52947.27 | 113152.17 | 9.6701807 | 9.7238436 |
| 55 | 46818.69 | 52984.52 | 113169.61 | 9.6704192 | 9.7241490 |
| 56 | 46844.39 | 53021.78 | 113187.06 | 9.6706576 | 9.7244543 |
| 57 | 46870.09 | 53059.06 | 113204.52 | 9.6708958 | 9.7247595 |
| 58 | 46895.78 | 53096.34 | 113222.00 | 9.6711338 | 9.7250646 |
| 59 | 46921.47 | 53133.64 | 113239.50 | 9.6713716 | 9.7253695 |
| 60 | 46947.16 | 53170.94 | 113257.01 | 9.6716093 | 9.7256744 |

62 Grad.

Minut.

| | Sinus. | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|-----------|-----------|-----------|------------|
| 10 | 88701.08 | 192098.21 | 216568.06 | 9.9479289 | 10.283523: |
| 29 | 88687.64 | 191961.86 | 216447.12 | 9.9478631 | 10.2832145 |
| 28 | 88674.20 | 191825.65 | 216326.33 | 9.9477973 | 10.2829066 |
| 27 | 88660.75 | 191689.60 | 216205.70 | 9.9477314 | 10.2825986 |
| 26 | 88647.29 | 191553.70 | 216085.22 | 9.9476655 | 10.2822906 |
| 25 | 88633.83 | 191417.95 | 215964.89 | 9.9475995 | 10.2819827 |
| 14 | 88620.36 | 191282.36 | 215844.71 | 9.9475335 | 10.2816745 |
| 23 | 88606.88 | 191146.91 | 215724.69 | 9.9474674 | 10.2813663 |
| 22 | 88593.39 | 191011.62 | 215604.82 | 9.9474013 | 10.2810598 |
| 21 | 88579.89 | 190876.47 | 215485.10 | 9.9473352 | 10.2807524 |
| 20 | 88566.39 | 190741.47 | 215365.53 | 9.9472689 | 10.2804451 |
| 19 | 88552.88 | 190606.63 | 215246.11 | 9.9472027 | 10.2801380 |
| 18 | 88539.36 | 190471.93 | 215126.84 | 9.9471364 | 10.2798310 |
| 17 | 88525.83 | 190337.38 | 215007.72 | 9.9470700 | 10.2795241 |
| 16 | 88512.30 | 190202.99 | 214888.75 | 9.9470036 | 10.2792173 |
| 15 | 88498.76 | 190068.74 | 214769.93 | 9.9469372 | 10.2789107 |
| 14 | 88485.22 | 189934.64 | 214651.27 | 9.9468707 | 10.2786042 |
| 13 | 88471.66 | 189800.68 | 214532.75 | 9.9468042 | 10.2782978 |
| 12 | 88458.10 | 189666.88 | 214414.37 | 9.9467376 | 10.2779915 |
| 11 | 88444.53 | 189533.22 | 214296.15 | 9.9466710 | 10.2776852 |
| 10 | 88430.95 | 189399.71 | 214178.08 | 9.9466043 | 10.2773793 |
| 9 | 88417.36 | 189266.34 | 214060.15 | 9.9465376 | 10.2770734 |
| 8 | 88403.77 | 189133.13 | 213942.38 | 9.9464708 | 10.2767676 |
| 7 | 88390.17 | 189000.06 | 213824.75 | 9.9464040 | 10.2764615 |
| 6 | 88376.56 | 188867.13 | 213707.26 | 9.9463371 | 10.2761564 |
| 5 | 88362.94 | 188734.36 | 213589.93 | 9.9462702 | 10.2758510 |
| 4 | 88349.32 | 188601.72 | 213472.74 | 9.9462032 | 10.2755455 |
| 3 | 88335.69 | 188469.24 | 213355.70 | 9.9461362 | 10.2752405 |
| 2 | 88322.05 | 188336.90 | 213238.80 | 9.9460692 | 10.2749354 |
| 1 | 88308.41 | 188204.70 | 213122.05 | 9.9460021 | 10.2746305 |
| 0 | 88294.76 | 188072.65 | 213005.45 | 9.9459349 | 10.2743256 |

H

28 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 46947.16 | 53170.94 | 113257.01 | 9.6716093 | 9.7256744 |
| 1 | 46972.84 | 53208.26 | 113274.53 | 9.6718468 | 9.7259791 |
| 2 | 46998.52 | 53245.59 | 113292.07 | 9.6720841 | 9.7262837 |
| 3 | 47024.19 | 53282.93 | 113309.62 | 9.6723213 | 9.7265881 |
| 4 | 47049.86 | 53320.29 | 113327.19 | 9.6725583 | 9.7268925 |
| 5 | 47075.53 | 53357.65 | 113344.78 | 9.6727952 | 9.7271967 |
| 6 | 47101.19 | 53395.03 | 113362.38 | 9.6730319 | 9.7275008 |
| 7 | 47126.85 | 53432.42 | 113379.99 | 9.6732684 | 9.7278048 |
| 8 | 47152.50 | 53469.82 | 113397.62 | 9.6735047 | 9.7281087 |
| 9 | 47178.15 | 53507.23 | 113415.27 | 9.6737409 | 9.7284124 |
| 10 | 47203.80 | 53544.65 | 113432.93 | 9.6739769 | 9.7287161 |
| 11 | 47229.44 | 53582.08 | 113450.60 | 9.6742128 | 9.7290196 |
| 12 | 47255.08 | 53619.53 | 113468.29 | 9.6744485 | 9.7293230 |
| 13 | 47280.71 | 53656.99 | 113486.00 | 9.6746840 | 9.7296263 |
| 14 | 47306.34 | 53694.46 | 113503.72 | 9.6749194 | 9.7299295 |
| 15 | 47331.97 | 53731.94 | 113521.46 | 9.6751546 | 9.7302325 |
| 16 | 47357.59 | 53769.43 | 113539.21 | 9.6753896 | 9.7305354 |
| 17 | 47383.21 | 53806.94 | 113556.98 | 9.6756245 | 9.7308383 |
| 18 | 47408.82 | 53844.45 | 113574.76 | 9.6758592 | 9.7311410 |
| 19 | 47434.43 | 53881.98 | 113592.55 | 9.6760937 | 9.7314436 |
| 20 | 47460.04 | 53919.52 | 113610.36 | 9.6763281 | 9.7317460 |
| 21 | 47485.64 | 53957.07 | 113628.19 | 9.6765623 | 9.7320484 |
| 22 | 47511.24 | 53994.64 | 113646.03 | 9.6767963 | 9.7323506 |
| 23 | 47536.83 | 54032.21 | 113663.89 | 9.6770302 | 9.7326527 |
| 24 | 47562.42 | 54069.80 | 113681.76 | 9.6772640 | 9.7329547 |
| 25 | 47588.01 | 54107.40 | 113699.65 | 9.6774975 | 9.7332566 |
| 26 | 47613.59 | 54145.01 | 113717.55 | 9.6777309 | 9.7335584 |
| 27 | 47639.17 | 54182.63 | 113735.47 | 9.6779642 | 9.7338601 |
| 28 | 47664.74 | 54220.27 | 113753.40 | 9.6781972 | 9.7341616 |
| 29 | 47690.31 | 54257.91 | 113771.35 | 9.6784301 | 9.7344631 |
| 30 | 47715.88 | 54295.57 | 113789.32 | 9.6786629 | 9.7347644 |

61 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 50 | 88294.76 | 188072.65 | 213005.45 | 9.9459349 | 10.2743256 |
| 59 | 88281.10 | 187940.74 | 212888.99 | 9.9458677 | 10.2740209 |
| 58 | 88267.43 | 187808.98 | 212772.67 | 9.9458005 | 10.2737163 |
| 57 | 88253.75 | 187677.36 | 212656.51 | 9.9457332 | 10.2734119 |
| 56 | 88240.07 | 187545.88 | 212540.48 | 9.9456659 | 10.2731075 |
| 55 | 88226.38 | 187414.55 | 212424.60 | 9.9455985 | 10.2728033 |
| 54 | 88212.68 | 187283.36 | 212308.87 | 9.9455310 | 10.2724992 |
| 53 | 88198.98 | 187152.31 | 212193.28 | 9.9454636 | 10.2721952 |
| 52 | 88185.27 | 187021.41 | 212077.83 | 9.9453960 | 10.2718913 |
| 51 | 88171.55 | 186890.64 | 211962.53 | 9.9453285 | 10.2715876 |
| 50 | 88157.82 | 186760.03 | 211847.37 | 9.9452609 | 10.2712839 |
| 49 | 88144.09 | 186629.55 | 211732.35 | 9.9451932 | 10.2709804 |
| 48 | 88130.35 | 186499.21 | 211617.48 | 9.9451255 | 10.2706770 |
| 47 | 88116.60 | 186369.02 | 211502.74 | 9.9450577 | 10.2703737 |
| 46 | 88102.84 | 186238.96 | 211388.15 | 9.9449899 | 10.2700705 |
| 45 | 88089.07 | 186109.05 | 211273.71 | 9.9449220 | 10.2697675 |
| 44 | 88075.30 | 185979.28 | 211159.40 | 9.9448541 | 10.2694646 |
| 43 | 88061.52 | 185849.65 | 211045.23 | 9.9447862 | 10.2691617 |
| 42 | 88047.73 | 185720.15 | 210931.21 | 9.9447182 | 10.2688590 |
| 41 | 88033.94 | 185590.80 | 210817.33 | 9.9446501 | 10.2685564 |
| 40 | 88020.14 | 185461.59 | 210703.59 | 9.9445821 | 10.2682540 |
| 39 | 88006.33 | 185332.52 | 210589.98 | 9.9445139 | 10.2679516 |
| 38 | 87992.51 | 185203.58 | 210476.52 | 9.9444457 | 10.2676494 |
| 37 | 87978.69 | 185074.79 | 210363.20 | 9.9443775 | 10.2673473 |
| 36 | 87964.86 | 184946.13 | 210250.02 | 9.9443092 | 10.2670453 |
| 35 | 87951.02 | 184817.61 | 210136.98 | 9.9442409 | 10.2667434 |
| 34 | 87937.17 | 184689.23 | 210024.08 | 9.9441725 | 10.2664416 |
| 33 | 87923.32 | 184560.99 | 209911.31 | 9.9441041 | 10.2661399 |
| 32 | 87909.46 | 184432.89 | 209798.69 | 9.9440356 | 10.2658384 |
| 31 | 87895.59 | 184304.92 | 209686.20 | 9.9439671 | 10.2655369 |
| 30 | 87881.71 | 184177.09 | 209573.85 | 9.9438985 | 10.2652356 |

28 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 47715.88 | 54295.57 | 113789.32 | 9.6786629 | 9.7347644 |
| 31 | 47741.44 | 54333.24 | 113807.30 | 9.6788955 | 9.7350656 |
| 32 | 47767.00 | 54370.92 | 113825.29 | 9.6791279 | 9.7353667 |
| 33 | 47792.55 | 54408.62 | 113843.30 | 9.6793602 | 9.7356677 |
| 34 | 47818.10 | 54446.32 | 113861.33 | 9.6795923 | 9.7359685 |
| 35 | 47843.64 | 54484.04 | 113879.37 | 9.6798243 | 9.7362693 |
| 36 | 47869.18 | 54521.77 | 113897.43 | 9.6800560 | 9.7365699 |
| 37 | 47894.72 | 54559.51 | 113915.50 | 9.6802877 | 9.7368705 |
| 38 | 47920.26 | 54597.26 | 113933.59 | 9.6805191 | 9.7371709 |
| 39 | 47945.79 | 54635.03 | 113951.69 | 9.6807504 | 9.7374712 |
| 40 | 47971.31 | 54672.81 | 113969.81 | 9.6809816 | 9.7377714 |
| 41 | 47996.83 | 54710.60 | 113987.94 | 9.6812126 | 9.7380715 |
| 42 | 48022.35 | 54748.40 | 114006.09 | 9.6814434 | 9.7383714 |
| 43 | 48047.86 | 54786.21 | 114024.25 | 9.6816741 | 9.7386713 |
| 44 | 48073.37 | 54824.04 | 114042.43 | 9.6819046 | 9.7389710 |
| 45 | 48098.88 | 54861.88 | 114060.62 | 9.6821349 | 9.7392707 |
| 46 | 48124.38 | 54899.73 | 114078.83 | 9.6823651 | 9.7395702 |
| 47 | 48149.88 | 54937.59 | 114097.06 | 9.6825952 | 9.7398696 |
| 48 | 48175.37 | 54975.46 | 114115.30 | 9.6828250 | 9.7401689 |
| 49 | 48200.86 | 55013.35 | 114133.56 | 9.6830548 | 9.7404681 |
| 50 | 48226.34 | 55051.25 | 114151.83 | 9.6832843 | 9.7407672 |
| 51 | 48251.82 | 55089.16 | 114170.12 | 9.6835137 | 9.7410662 |
| 52 | 48277.30 | 55127.08 | 114188.42 | 9.6837430 | 9.7413650 |
| 53 | 48302.77 | 55165.02 | 114206.74 | 9.6839720 | 9.7416638 |
| 54 | 48328.24 | 55202.97 | 114225.07 | 9.6842010 | 9.7419624 |
| 55 | 48353.70 | 55240.93 | 114243.42 | 9.6844297 | 9.7422609 |
| 56 | 48379.16 | 55278.90 | 114261.79 | 9.6846583 | 9.7425594 |
| 57 | 48404.62 | 55316.88 | 114280.17 | 9.6848868 | 9.7428577 |
| 58 | 48430.07 | 55354.88 | 114298.57 | 9.6851151 | 9.7431559 |
| 59 | 48455.52 | 55392.88 | 114316.98 | 9.6853432 | 9.7434540 |
| 60 | 48480.96 | 55430.90 | 114335.41 | 9.6855712 | 9.7437520 |

61 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 10 | 87881.71 | 184177.09 | 209573.85 | 9.9438985 | 10.2652356 |
| 19 | 87867.83 | 184049.39 | 209461.64 | 9.9438299 | 10.2649344 |
| 18 | 87853.94 | 183921.84 | 209349.57 | 9.9437612 | 10.2646333 |
| 27 | 87840.04 | 183794.42 | 209237.64 | 9.9436925 | 10.2643323 |
| 26 | 87826.13 | 183667.13 | 209125.84 | 9.9436238 | 10.2640315 |
| 25 | 87812.22 | 183539.99 | 209014.18 | 9.9435549 | 10.2637307 |
| 24 | 87798.30 | 183412.97 | 208902.65 | 9.9434861 | 10.2634301 |
| 23 | 87784.37 | 183286.10 | 208791.27 | 9.9434172 | 10.2631295 |
| 22 | 87770.43 | 183159.36 | 208680.02 | 9.9433482 | 10.2628291 |
| 21 | 87756.49 | 183032.75 | 208568.90 | 9.9432792 | 10.2625288 |
| 20 | 87742.54 | 182906.28 | 208457.92 | 9.9432102 | 10.2622286 |
| 19 | 87728.58 | 182779.94 | 208347.08 | 9.9431411 | 10.2619285 |
| 18 | 87714.61 | 182653.74 | 208236.37 | 9.9430720 | 10.2616286 |
| 17 | 87700.64 | 182527.67 | 208125.80 | 9.9430028 | 10.2613287 |
| 16 | 87686.66 | 182401.73 | 208015.36 | 9.9429335 | 10.2610290 |
| 15 | 87672.67 | 182275.93 | 207905.06 | 9.9428643 | 10.2607293 |
| 14 | 87658.68 | 182150.26 | 207794.89 | 9.9427949 | 10.2604298 |
| 13 | 87644.68 | 182024.73 | 207684.86 | 9.9427255 | 10.2601304 |
| 12 | 87630.67 | 181899.32 | 207574.96 | 9.9426561 | 10.2598311 |
| 11 | 87616.65 | 181774.05 | 207465.19 | 9.9425866 | 10.2595319 |
| 10 | 87602.62 | 181648.92 | 207355.56 | 9.9425171 | 10.2592328 |
| 9 | 87588.59 | 181523.91 | 207246.06 | 9.9424476 | 10.2589338 |
| 8 | 87574.55 | 181399.04 | 207136.70 | 9.9423779 | 10.2586350 |
| 7 | 87560.50 | 181274.30 | 207027.46 | 9.9423083 | 10.2583362 |
| 6 | 87546.45 | 181149.69 | 206918.36 | 9.9422386 | 10.2580376 |
| 5 | 87532.39 | 181025.21 | 206809.40 | 9.9421688 | 10.2577391 |
| 4 | 87518.32 | 180900.86 | 206700.56 | 9.9420990 | 10.2574406 |
| 3 | 87504.24 | 180776.64 | 206591.86 | 9.9420291 | 10.2571422 |
| 2 | 87490.16 | 180652.56 | 206483.28 | 9.9419592 | 10.2568441 |
| 1 | 87476.07 | 180528.60 | 206374.84 | 9.9418893 | 10.2565460 |
| 0 | 87461.97 | 180404.78 | 206266.53 | 9.9418193 | 10.2562480 |

29 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 48480.96 | 55430.90 | 114335.41 | 9.6855712 | 9.7437520 |
| 1 | 48506.40 | 55468.94 | 114353.85 | 9.6857991 | 9.7440499 |
| 2 | 48531.84 | 55506.98 | 114372.31 | 9.6860267 | 9.7443476 |
| 3 | 48557.27 | 55545.04 | 114390.78 | 9.6862542 | 9.7446453 |
| 4 | 48582.70 | 55583.11 | 114409.27 | 9.6864816 | 9.7449428 |
| 5 | 48608.12 | 55621.19 | 114427.78 | 9.6867088 | 9.7452403 |
| 6 | 48633.54 | 55659.29 | 114446.30 | 9.6869359 | 9.7455376 |
| 7 | 48658.95 | 55697.39 | 114464.84 | 9.6871628 | 9.7458349 |
| 8 | 48684.36 | 55735.51 | 114483.39 | 9.6873895 | 9.7461320 |
| 9 | 48709.77 | 55773.64 | 114501.96 | 9.6876161 | 9.7464290 |
| 10 | 48735.17 | 55811.79 | 114520.55 | 9.6878425 | 9.7467259 |
| 11 | 48760.57 | 55849.94 | 114539.15 | 9.6880688 | 9.7470227 |
| 12 | 48785.97 | 55888.11 | 114557.76 | 9.6882949 | 9.7473194 |
| 13 | 48811.36 | 55926.29 | 114576.39 | 9.6885209 | 9.7476160 |
| 14 | 48836.74 | 55964.48 | 114595.04 | 9.6887467 | 9.7479125 |
| 15 | 48862.12 | 56002.69 | 114613.70 | 9.6889723 | 9.7482089 |
| 16 | 48887.50 | 56040.91 | 114632.38 | 9.6891978 | 9.7485052 |
| 17 | 48912.87 | 56079.14 | 114651.08 | 9.6894232 | 9.7488013 |
| 18 | 48938.24 | 56117.38 | 114669.79 | 9.6896484 | 9.7490974 |
| 19 | 48963.61 | 56155.64 | 114688.52 | 9.6898734 | 9.7493934 |
| 20 | 48988.97 | 56193.91 | 114707.26 | 9.6900983 | 9.7496892 |
| 21 | 49014.33 | 56232.19 | 114726.02 | 9.6903231 | 9.7499850 |
| 22 | 49039.68 | 56270.48 | 114744.79 | 9.6905476 | 9.7502806 |
| 23 | 49065.03 | 56308.79 | 114763.58 | 9.6907721 | 9.7505762 |
| 24 | 49090.37 | 56347.10 | 114782.39 | 9.6909964 | 9.7508716 |
| 25 | 49115.71 | 56385.43 | 114801.21 | 9.6912205 | 9.7511669 |
| 26 | 49141.05 | 56423.78 | 114820.05 | 9.6914445 | 9.7514622 |
| 27 | 49166.37 | 56462.13 | 114838.90 | 9.6916683 | 9.7517573 |
| 28 | 49191.71 | 56500.50 | 114857.77 | 9.6918919 | 9.7520523 |
| 29 | 49217.04 | 56538.88 | 114876.65 | 9.6921155 | 9.7523472 |
| 30 | 49242.36 | 56577.28 | 114895.55 | 9.6923388 | 9.7526420 |

60 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 50 | 87461.97 | 180404.78 | 206266.53 | 9.9418193 | 10.2562480 |
| 59 | 87447.86 | 180281.08 | 206158.36 | 9.9417492 | 10.2559501 |
| 58 | 87433.75 | 180157.51 | 206050.31 | 9.9416791 | 10.2556524 |
| 57 | 87419.63 | 180034.08 | 205942.39 | 9.9416090 | 10.2553547 |
| 56 | 87405.50 | 179910.77 | 205834.60 | 9.9415388 | 10.2550572 |
| 55 | 87391.36 | 179787.59 | 205726.95 | 9.9414685 | 10.2547597 |
| 54 | 87377.22 | 179664.54 | 205619.42 | 9.9413982 | 10.2544624 |
| 53 | 87363.07 | 179541.62 | 205512.03 | 9.9413279 | 10.2541651 |
| 52 | 87348.91 | 179418.83 | 205404.76 | 9.9412575 | 10.2538680 |
| 51 | 87334.75 | 179296.16 | 205297.62 | 9.9411871 | 10.2535710 |
| 50 | 87320.58 | 179173.62 | 205190.61 | 9.9411166 | 10.2532741 |
| 49 | 87306.40 | 179051.21 | 205083.73 | 9.9410461 | 10.2529773 |
| 48 | 87292.21 | 178928.93 | 204976.98 | 9.9409755 | 10.2526806 |
| 47 | 87278.01 | 178806.78 | 204870.36 | 9.9409048 | 10.2523840 |
| 46 | 87263.81 | 178684.75 | 204763.86 | 9.9408342 | 10.2520875 |
| 45 | 87249.60 | 178562.85 | 204657.50 | 9.9407634 | 10.2517911 |
| 44 | 87235.38 | 178441.07 | 204551.26 | 9.9406927 | 10.2514948 |
| 43 | 87221.16 | 178319.43 | 204445.15 | 9.9406219 | 10.2511987 |
| 42 | 87206.93 | 178197.90 | 204339.16 | 9.9405510 | 10.2509026 |
| 41 | 87192.69 | 178076.51 | 204233.30 | 9.9404801 | 10.2506066 |
| 40 | 87178.44 | 177955.24 | 204127.57 | 9.9404091 | 10.2503108 |
| 39 | 87164.19 | 177834.09 | 204021.97 | 9.9403381 | 10.2500150 |
| 38 | 87149.93 | 177713.07 | 203916.49 | 9.9402670 | 10.2497194 |
| 37 | 87135.66 | 177592.18 | 203811.14 | 9.9401959 | 10.2494238 |
| 36 | 87121.38 | 177471.41 | 203705.92 | 9.9401248 | 10.2491284 |
| 35 | 87107.10 | 177350.76 | 203600.82 | 9.9400535 | 10.2488331 |
| 34 | 87092.81 | 177230.24 | 203495.85 | 9.9399823 | 10.2485378 |
| 33 | 87078.51 | 177109.85 | 203391.00 | 9.9399110 | 10.2482427 |
| 32 | 87064.20 | 176989.58 | 203286.27 | 9.9398396 | 10.2479477 |
| 31 | 87049.89 | 176869.43 | 203181.68 | 9.9397682 | 10.2476528 |
| 30 | 87035.57 | 176749.40 | 203077.20 | 9.9396968 | 10.2473580 |

29 Grad.

| Minut. | | | | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| | Sinus | Tang. | Secant. | | |
| 30 | 49242.36 | 56577.28 | 114895.55 | 9.6923388 | 9.7526420 |
| 31 | 49267.67 | 56615.68 | 114914.47 | 9.6925620 | 9.7529368 |
| 32 | 49292.98 | 56654.10 | 114933.40 | 9.6927851 | 9.7532314 |
| 33 | 49318.29 | 56692.53 | 114952.35 | 9.6930080 | 9.7535259 |
| 34 | 49343.59 | 56730.98 | 114971.32 | 9.6932308 | 9.7538203 |
| 35 | 49368.89 | 56769.44 | 114990.30 | 9.6934534 | 9.7541146 |
| 36 | 49394.19 | 56807.91 | 115009.30 | 9.6936758 | 9.7544088 |
| 37 | 49419.48 | 56846.39 | 115028.31 | 9.6938981 | 9.7547029 |
| 38 | 49444.77 | 56884.88 | 115047.34 | 9.6941203 | 9.7549969 |
| 39 | 49470.05 | 56923.39 | 115066.38 | 9.6943423 | 9.7552908 |
| 40 | 49495.33 | 56961.91 | 115085.44 | 9.6945642 | 9.7555846 |
| 41 | 49520.60 | 57000.45 | 115104.52 | 9.6947859 | 9.7558783 |
| 42 | 49545.87 | 57038.99 | 115123.61 | 9.6950074 | 9.7561718 |
| 43 | 49571.13 | 57077.55 | 115142.72 | 9.6952288 | 9.7564653 |
| 44 | 49596.39 | 57116.12 | 115161.85 | 9.6954501 | 9.7567587 |
| 45 | 49621.65 | 57154.71 | 115180.99 | 9.6956712 | 9.7570520 |
| 46 | 49646.90 | 57193.31 | 115200.15 | 9.6958922 | 9.7573452 |
| 47 | 49672.15 | 57231.92 | 115219.32 | 9.6961130 | 9.7576383 |
| 48 | 49697.40 | 57270.54 | 115238.51 | 9.6963336 | 9.7579313 |
| 49 | 49722.64 | 57309.18 | 115257.72 | 9.6965541 | 9.7582242 |
| 50 | 49747.87 | 57347.83 | 115276.94 | 9.6967745 | 9.7585170 |
| 51 | 49773.10 | 57386.49 | 115296.18 | 9.6969947 | 9.7588096 |
| 52 | 49798.33 | 57425.16 | 115315.43 | 9.6972148 | 9.7591022 |
| 53 | 49823.55 | 57463.85 | 115334.70 | 9.6974347 | 9.7593947 |
| 54 | 49848.77 | 57502.55 | 115353.99 | 9.6976545 | 9.7596871 |
| 55 | 49873.99 | 57541.26 | 115373.29 | 9.6978741 | 9.7599794 |
| 56 | 49899.20 | 57579.99 | 115392.61 | 9.6980936 | 9.7602716 |
| 57 | 49924.41 | 57618.73 | 115411.95 | 9.6983129 | 9.7605637 |
| 58 | 49949.61 | 57657.48 | 115431.30 | 9.6985321 | 9.7608557 |
| 59 | 49974.81 | 57696.25 | 115450.67 | 9.6987511 | 9.7611476 |
| 60 | 50000.00 | 57735.03 | 115470.05 | 9.6989700 | 9.7614394 |

60 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 87035.57 | 176749.40 | 203077.20 | 9.9356968 | 10.2473580 |
| 29 | 87021.24 | 176629.50 | 202972.86 | 9.9356253 | 10.2470632 |
| 28 | 87006.90 | 176509.72 | 202868.63 | 9.9355537 | 10.2467686 |
| 27 | 86992.56 | 176390.07 | 202764.53 | 9.9354821 | 10.2464741 |
| 26 | 86978.21 | 176270.53 | 202660.56 | 9.9354105 | 10.2461797 |
| 25 | 86963.85 | 176151.11 | 202556.70 | 9.9353388 | 10.2458854 |
| 24 | 86949.49 | 176031.83 | 202452.97 | 9.9352671 | 10.2455912 |
| 23 | 86935.12 | 175912.67 | 202349.37 | 9.9351953 | 10.2452971 |
| 22 | 86920.74 | 175793.62 | 202245.89 | 9.9351234 | 10.2450031 |
| 21 | 86906.35 | 175674.70 | 202142.53 | 9.9350515 | 10.2447092 |
| 20 | 86891.96 | 175555.90 | 202039.29 | 9.9349796 | 10.2444154 |
| 19 | 86877.56 | 175437.22 | 201936.17 | 9.9349076 | 10.2441217 |
| 18 | 86863.15 | 175318.66 | 201833.18 | 9.9348356 | 10.2438282 |
| 17 | 86848.73 | 175200.23 | 201730.31 | 9.9347635 | 10.2435347 |
| 16 | 86834.31 | 175081.91 | 201627.56 | 9.9346914 | 10.2432413 |
| 15 | 86819.88 | 174963.71 | 201524.94 | 9.9346192 | 10.2429480 |
| 14 | 86805.44 | 174845.64 | 201422.43 | 9.9345470 | 10.2426548 |
| 13 | 86791.00 | 174727.68 | 201320.05 | 9.9344747 | 10.2423617 |
| 12 | 86776.55 | 174609.84 | 201217.79 | 9.9344024 | 10.2420687 |
| 11 | 86762.09 | 174492.13 | 201115.64 | 9.9343300 | 10.2417758 |
| 10 | 86747.62 | 174374.53 | 201013.62 | 9.9342576 | 10.2414830 |
| 9 | 86733.14 | 174257.05 | 200911.72 | 9.9341851 | 10.2411904 |
| 8 | 86718.66 | 174139.69 | 200809.94 | 9.9341126 | 10.2408978 |
| 7 | 86704.17 | 174022.45 | 200708.28 | 9.9340400 | 10.2406053 |
| 6 | 86689.67 | 173905.33 | 200606.74 | 9.9339674 | 10.2403129 |
| 5 | 86675.17 | 173788.33 | 200505.32 | 9.9338947 | 10.2400206 |
| 4 | 86660.66 | 173671.44 | 200404.02 | 9.9338220 | 10.2397284 |
| 3 | 86646.14 | 173554.68 | 200302.83 | 9.9337492 | 10.2394363 |
| 2 | 86631.61 | 173438.03 | 200201.77 | 9.9336764 | 10.2391443 |
| 1 | 86617.08 | 173321.49 | 200100.83 | 9.9336035 | 10.2388524 |
| 0 | 86602.54 | 173205.08 | 200000.00 | 9.9335306 | 10.2385606 |

30 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 50000.00 | 57735.03 | 115470.05 | 9.6989700 | 9.7614394 |
| 1 | 50025.19 | 57773.82 | 115489.45 | 9.6991887 | 9.7617311 |
| 2 | 50050.38 | 57812.62 | 115508.87 | 9.6994073 | 9.7620227 |
| 3 | 50075.56 | 57851.44 | 115528.30 | 9.6996258 | 9.7623142 |
| 4 | 50100.74 | 57890.27 | 115547.75 | 9.6998441 | 9.7626056 |
| 5 | 50125.91 | 57929.11 | 115567.22 | 9.7000622 | 9.7628969 |
| 6 | 50151.08 | 57967.97 | 115586.70 | 9.7002802 | 9.7631881 |
| 7 | 50176.24 | 58006.84 | 115606.20 | 9.7004981 | 9.7634792 |
| 8 | 50201.40 | 58045.73 | 115625.72 | 9.7007158 | 9.7637702 |
| 9 | 50226.55 | 58084.62 | 115645.25 | 9.7009334 | 9.7640612 |
| 10 | 50251.70 | 58123.53 | 115664.80 | 9.7011508 | 9.7643520 |
| 11 | 50276.85 | 58162.45 | 115684.36 | 9.7013681 | 9.7646427 |
| 12 | 50301.99 | 58201.39 | 115703.94 | 9.7015852 | 9.7649334 |
| 13 | 50327.13 | 58240.34 | 115723.54 | 9.7018022 | 9.7652239 |
| 14 | 50352.27 | 58279.30 | 115743.15 | 9.7020190 | 9.7655143 |
| 15 | 50377.40 | 58318.28 | 115762.78 | 9.7022357 | 9.7658047 |
| 16 | 50402.53 | 58357.27 | 115782.43 | 9.7024523 | 9.7660949 |
| 17 | 50427.65 | 58396.27 | 115802.09 | 9.7026687 | 9.7663851 |
| 18 | 50452.77 | 58435.28 | 115821.77 | 9.7028849 | 9.7666751 |
| 19 | 50477.88 | 58474.31 | 115841.47 | 9.7031011 | 9.7669651 |
| 20 | 50502.99 | 58513.35 | 115861.18 | 9.7033170 | 9.7672550 |
| 21 | 50528.09 | 58552.41 | 115880.91 | 9.7035329 | 9.7675448 |
| 22 | 50553.19 | 58591.48 | 115900.65 | 9.7037486 | 9.7678344 |
| 23 | 50578.28 | 58630.56 | 115920.41 | 9.7039641 | 9.7681240 |
| 24 | 50603.37 | 58669.65 | 115940.19 | 9.7041795 | 9.7684135 |
| 25 | 50628.46 | 58708.76 | 115959.99 | 9.7043947 | 9.7687029 |
| 26 | 50653.55 | 58747.88 | 115979.80 | 9.7046099 | 9.7689922 |
| 27 | 50678.63 | 58787.02 | 115999.63 | 9.7048248 | 9.7692814 |
| 28 | 50703.70 | 58826.17 | 116019.47 | 9.7050397 | 9.7695705 |
| 29 | 50728.77 | 58865.33 | 116039.33 | 9.7052543 | 9.7698596 |
| 30 | 50753.84 | 58904.50 | 116059.21 | 9.7054689 | 9.7701485 |

59 Grad.

| Minut. | Sinus. | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 50 | 86602.54 | 173205.08 | 200000.00 | 9.9375306 | 10.2385606 |
| 59 | 86587.99 | 173088.78 | 199899.29 | 9.9374577 | 10.2382689 |
| 58 | 86573.43 | 172972.60 | 199798.70 | 9.9373847 | 10.2379773 |
| 57 | 86558.87 | 172856.54 | 199698.23 | 9.9373116 | 10.2376858 |
| 56 | 86544.30 | 172740.60 | 199597.88 | 9.9372385 | 10.2373944 |
| 55 | 86529.72 | 172624.77 | 199497.64 | 9.9371653 | 10.2371031 |
| 54 | 86515.14 | 172209.05 | 199397.53 | 9.9370921 | 10.2368119 |
| 53 | 86500.55 | 172393.45 | 199297.52 | 9.9370189 | 10.2365208 |
| 52 | 86485.95 | 172277.97 | 199197.64 | 9.9369456 | 10.2362298 |
| 51 | 86471.34 | 172162.61 | 199097.87 | 9.9368722 | 10.2359388 |
| 50 | 86456.73 | 172047.36 | 198998.22 | 9.9367988 | 10.2356480 |
| 49 | 86442.11 | 171932.22 | 198898.69 | 9.9367254 | 10.2353573 |
| 48 | 86427.48 | 171817.20 | 198799.27 | 9.9366519 | 10.2350666 |
| 47 | 86412.84 | 171702.30 | 198699.97 | 9.9365783 | 10.2347761 |
| 46 | 86398.20 | 171587.51 | 198600.80 | 9.9365047 | 10.2344857 |
| 45 | 86383.55 | 171472.83 | 198501.72 | 9.9364311 | 10.2341953 |
| 44 | 86368.89 | 171358.27 | 198402.76 | 9.9363574 | 10.2339051 |
| 43 | 86354.23 | 171243.82 | 198303.93 | 9.9362836 | 10.2336149 |
| 42 | 86339.56 | 171129.49 | 198205.20 | 9.9362098 | 10.2333245 |
| 41 | 86324.88 | 171015.27 | 198106.59 | 9.9361360 | 10.2330345 |
| 40 | 86310.19 | 170901.16 | 198008.10 | 9.9360621 | 10.2327450 |
| 39 | 86295.49 | 170787.17 | 197909.72 | 9.9359881 | 10.2324552 |
| 38 | 86280.79 | 170673.29 | 197811.46 | 9.9359141 | 10.2321656 |
| 37 | 86266.08 | 170559.53 | 197713.31 | 9.9358401 | 10.2318760 |
| 36 | 86251.36 | 170445.87 | 197615.27 | 9.9357660 | 10.2315865 |
| 35 | 86236.64 | 170332.33 | 197517.35 | 9.9356918 | 10.2312971 |
| 34 | 86221.91 | 170218.90 | 197419.54 | 9.9356177 | 10.2310078 |
| 33 | 86207.17 | 170105.59 | 197321.85 | 9.9355434 | 10.2307186 |
| 32 | 86192.43 | 169992.38 | 197224.26 | 9.9354691 | 10.2304294 |
| 31 | 86177.68 | 169879.29 | 197126.80 | 9.9353948 | 10.2301402 |
| 30 | 86162.92 | 169766.31 | 197029.44 | 9.9353204 | 10.2298511 |

30 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 50753.84 | 58904.50 | 116059.21 | 9.7054689 | 9.7701485 |
| 31 | 50778.90 | 58943.69 | 116079.11 | 9.7056833 | 9.7704373 |
| 32 | 50803.96 | 58982.89 | 116099.02 | 9.7058975 | 9.7707261 |
| 33 | 50829.01 | 59022.11 | 116118.95 | 9.7061116 | 9.7710147 |
| 34 | 50854.06 | 59061.34 | 116138.89 | 9.7063256 | 9.7713033 |
| 35 | 50879.10 | 59100.58 | 116158.85 | 9.7065394 | 9.7715917 |
| 36 | 50904.14 | 59139.83 | 116178.83 | 9.7067531 | 9.7718801 |
| 37 | 50929.18 | 59179.10 | 116198.82 | 9.7069667 | 9.7721684 |
| 38 | 50954.21 | 59218.39 | 116218.83 | 9.7071801 | 9.7724566 |
| 39 | 50979.24 | 59257.68 | 116238.86 | 9.7073933 | 9.7727447 |
| 40 | 51004.26 | 59296.99 | 116258.91 | 9.7076064 | 9.7730327 |
| 41 | 51029.28 | 59336.32 | 116278.97 | 9.7078194 | 9.7733206 |
| 42 | 51054.29 | 59375.66 | 116299.05 | 9.7080323 | 9.7736084 |
| 43 | 51079.30 | 59415.01 | 116319.14 | 9.7082450 | 9.7738961 |
| 44 | 51104.31 | 59454.37 | 116339.25 | 9.7084575 | 9.7741838 |
| 45 | 51129.31 | 59493.75 | 116359.38 | 9.7086699 | 9.7744713 |
| 46 | 51154.31 | 59533.14 | 116379.53 | 9.7088822 | 9.7747588 |
| 47 | 51179.30 | 59572.54 | 116399.69 | 9.7090943 | 9.7750462 |
| 48 | 51204.29 | 59611.96 | 116419.87 | 9.7093063 | 9.7753334 |
| 49 | 51229.27 | 59651.40 | 116440.07 | 9.7095182 | 9.7756206 |
| 50 | 51254.25 | 59690.84 | 116460.28 | 9.7097299 | 9.7759077 |
| 51 | 51279.22 | 59730.30 | 116480.51 | 9.7099415 | 9.7761947 |
| 52 | 51304.19 | 59769.78 | 116500.76 | 9.7101529 | 9.7764816 |
| 53 | 51329.16 | 59809.27 | 116521.02 | 9.7103642 | 9.7767685 |
| 54 | 51354.12 | 59848.77 | 116541.30 | 9.7105753 | 9.7770552 |
| 55 | 51379.08 | 59888.28 | 116561.60 | 9.7107863 | 9.7773418 |
| 56 | 51404.04 | 59927.81 | 116581.91 | 9.7109972 | 9.7776284 |
| 57 | 51428.99 | 59967.35 | 116602.24 | 9.7112080 | 9.7779149 |
| 58 | 51453.93 | 60006.91 | 116622.59 | 9.7114186 | 9.7782012 |
| 59 | 51478.87 | 60046.48 | 116642.96 | 9.7116290 | 9.7784875 |
| 60 | 51503.81 | 60086.06 | 116663.34 | 9.7118393 | 9.7787737 |

59 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 86162.92 | 169766.31 | 197029.44 | 9.9353204 | 10.2298515 |
| 29 | 86148.15 | 169653.44 | 196932.20 | 9.9352459 | 10.2295627 |
| 28 | 86133.37 | 169540.69 | 196835.07 | 9.9351715 | 10.2292739 |
| 27 | 86118.59 | 169428.04 | 196738.05 | 9.9350969 | 10.2289853 |
| 26 | 86103.80 | 169315.50 | 196641.14 | 9.9350223 | 10.2286967 |
| 25 | 86089.00 | 169203.08 | 196544.34 | 9.9349477 | 10.2284083 |
| 24 | 86074.20 | 169090.77 | 196447.67 | 9.9348730 | 10.2281199 |
| 23 | 86059.39 | 168978.56 | 196351.10 | 9.9347983 | 10.2278316 |
| 22 | 86044.57 | 168866.47 | 196254.64 | 9.9347235 | 10.2275434 |
| 21 | 86029.74 | 168754.49 | 196158.29 | 9.9346486 | 10.2272553 |
| 20 | 86014.91 | 168642.61 | 196062.06 | 9.9345738 | 10.2269673 |
| 19 | 86000.07 | 168530.85 | 195965.93 | 9.9344988 | 10.2266794 |
| 18 | 85985.22 | 168419.19 | 195869.92 | 9.9344238 | 10.2263916 |
| 17 | 85970.37 | 168307.65 | 195774.01 | 9.9343488 | 10.2261039 |
| 16 | 85955.51 | 168196.21 | 195678.22 | 9.9342737 | 10.2258162 |
| 15 | 85940.64 | 168084.89 | 195582.54 | 9.9341986 | 10.2255287 |
| 14 | 85925.76 | 167973.67 | 195486.97 | 9.9341234 | 10.2252412 |
| 13 | 85910.88 | 167862.56 | 195391.50 | 9.9340482 | 10.2249538 |
| 12 | 85895.99 | 167751.56 | 195296.15 | 9.9339729 | 10.2246666 |
| 11 | 85881.09 | 167640.67 | 195200.91 | 9.9338976 | 10.2243794 |
| 10 | 85866.18 | 167529.88 | 195105.77 | 9.9338222 | 10.2240923 |
| 9 | 85851.27 | 167419.21 | 195010.75 | 9.9337467 | 10.2238053 |
| 8 | 85836.35 | 167308.64 | 194915.83 | 9.9336713 | 10.2235184 |
| 7 | 85821.42 | 167198.18 | 194821.02 | 9.9335957 | 10.2232315 |
| 6 | 85806.49 | 167087.82 | 194726.32 | 9.9335201 | 10.2229448 |
| 5 | 85791.55 | 166977.58 | 194631.73 | 9.9334445 | 10.2226582 |
| 4 | 85776.60 | 166867.44 | 194537.25 | 9.9333688 | 10.2223716 |
| 3 | 85761.64 | 166757.41 | 194442.88 | 9.9332931 | 10.2220851 |
| 2 | 85746.68 | 166647.48 | 194348.61 | 9.9332173 | 10.2217988 |
| 1 | 85731.71 | 166537.66 | 194254.45 | 9.9331415 | 10.2215125 |
| 0 | 85716.73 | 166427.95 | 194160.40 | 9.9330656 | 10.2212263 |

31 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 51503.81 | 60086.06 | 116663.34 | 9.7118393 | 9.7787737 |
| 1 | 51528.74 | 60125.66 | 116683.74 | 9.7120495 | 9.7790599 |
| 2 | 51553.67 | 60165.27 | 116704.16 | 9.7122596 | 9.7793459 |
| 3 | 51578.59 | 60204.90 | 116724.59 | 9.7124695 | 9.7796318 |
| 4 | 51603.51 | 60244.54 | 116745.04 | 9.7126792 | 9.7799177 |
| 5 | 51628.42 | 60284.19 | 116765.51 | 9.7128889 | 9.7802034 |
| 6 | 51653.33 | 60323.86 | 116785.99 | 9.7130983 | 9.7804891 |
| 7 | 51678.24 | 60363.54 | 116806.49 | 9.7133077 | 9.7807747 |
| 8 | 51703.14 | 60403.23 | 116827.01 | 9.7135169 | 9.7810602 |
| 9 | 51728.04 | 60442.94 | 116847.55 | 9.7137260 | 9.7813456 |
| 10 | 51752.93 | 60482.66 | 116868.10 | 9.7139349 | 9.7816309 |
| 11 | 51777.82 | 60522.40 | 116888.67 | 9.7141437 | 9.7819162 |
| 12 | 51802.70 | 60562.15 | 116909.26 | 9.7143524 | 9.7822013 |
| 13 | 51827.58 | 60601.92 | 116929.86 | 9.7145609 | 9.7824864 |
| 14 | 51852.46 | 60641.70 | 116950.48 | 9.7147693 | 9.7827713 |
| 15 | 51877.33 | 60681.49 | 116971.12 | 9.7149776 | 9.7830562 |
| 16 | 51902.19 | 60721.30 | 116991.78 | 9.7151857 | 9.7833410 |
| 17 | 51927.05 | 60761.12 | 117012.45 | 9.7153937 | 9.7836258 |
| 18 | 51951.91 | 60800.95 | 117033.14 | 9.7156015 | 9.7839104 |
| 19 | 51976.76 | 60840.80 | 117053.85 | 9.7158092 | 9.7841949 |
| 20 | 52001.61 | 60880.67 | 117074.57 | 9.7160168 | 9.7844794 |
| 21 | 52026.46 | 60920.54 | 117095.31 | 9.7162243 | 9.7847638 |
| 22 | 52051.30 | 60960.43 | 117116.07 | 9.7164316 | 9.7850481 |
| 23 | 52076.13 | 61000.34 | 117136.85 | 9.7166387 | 9.7853323 |
| 24 | 52100.96 | 61040.26 | 117157.64 | 9.7168458 | 9.7856164 |
| 25 | 52125.79 | 61080.19 | 117178.45 | 9.7170526 | 9.7859004 |
| 26 | 52150.61 | 61120.14 | 117199.28 | 9.7172594 | 9.7861844 |
| 27 | 52175.43 | 61160.11 | 117220.13 | 9.7174660 | 9.7864682 |
| 28 | 52200.24 | 61200.08 | 117240.99 | 9.7176725 | 9.7867520 |
| 29 | 52225.05 | 61240.07 | 117261.87 | 9.7178789 | 9.7870357 |
| 30 | 52249.86 | 61280.07 | 117282.77 | 9.7180851 | 9.7873193 |

58 Grad.

Minut

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|-----------|-----------|-----------|------------|
| 0 | 85716.73 | 166427.95 | 194160.40 | 9.9330656 | 10.2212263 |
| 1 | 85701.74 | 166318.34 | 194066.46 | 9.9329897 | 10.2209401 |
| 2 | 85686.75 | 166208.84 | 193972.62 | 9.9329137 | 10.2206541 |
| 3 | 85671.75 | 166099.45 | 193878.89 | 9.9328376 | 10.2203682 |
| 4 | 85656.74 | 165990.16 | 193785.27 | 9.9327616 | 10.2200823 |
| 5 | 85641.73 | 165880.97 | 193691.76 | 9.9326854 | 10.2197966 |
| 6 | 85626.71 | 165771.89 | 193598.35 | 9.9326092 | 10.2195109 |
| 7 | 85611.68 | 165662.92 | 193505.05 | 9.9325330 | 10.2192253 |
| 8 | 85596.64 | 165554.05 | 193411.85 | 9.9324567 | 10.2189398 |
| 9 | 85581.60 | 165445.29 | 193318.76 | 9.9323804 | 10.2186544 |
| 10 | 85566.55 | 165336.63 | 193225.78 | 9.9323040 | 10.2183691 |
| 11 | 85551.49 | 165228.08 | 193132.90 | 9.9322276 | 10.2180838 |
| 12 | 85536.42 | 165119.63 | 193040.13 | 9.9321511 | 10.2177987 |
| 13 | 85521.35 | 165011.28 | 192947.46 | 9.9320746 | 10.2175136 |
| 14 | 85506.27 | 164903.04 | 192854.90 | 9.9319980 | 10.2172287 |
| 15 | 85491.18 | 164794.90 | 192762.44 | 9.9319213 | 10.2169438 |
| 16 | 85476.09 | 164686.86 | 192670.09 | 9.9318447 | 10.2166590 |
| 17 | 85460.99 | 164578.93 | 192577.84 | 9.9317679 | 10.2163742 |
| 18 | 85445.88 | 164471.11 | 192485.70 | 9.9316911 | 10.2160896 |
| 19 | 85430.76 | 164363.38 | 192393.66 | 9.9316143 | 10.2158051 |
| 20 | 85415.64 | 164255.76 | 192301.73 | 9.9315374 | 10.2155206 |
| 21 | 85400.51 | 164148.24 | 192209.90 | 9.9314605 | 10.2152362 |
| 22 | 85385.37 | 164040.82 | 192118.17 | 9.9313835 | 10.2149519 |
| 23 | 85370.23 | 163933.51 | 192026.55 | 9.9313065 | 10.2146677 |
| 24 | 85355.08 | 163826.30 | 191935.03 | 9.9312294 | 10.2143836 |
| 25 | 85339.92 | 163719.19 | 191843.62 | 9.9311522 | 10.2140996 |
| 26 | 85324.75 | 163612.18 | 191752.30 | 9.9310750 | 10.2138156 |
| 27 | 85309.58 | 163505.28 | 191661.09 | 9.9309978 | 10.2135318 |
| 28 | 85294.40 | 163398.47 | 191569.99 | 9.9309205 | 10.2132480 |
| 29 | 85279.21 | 163291.77 | 191478.99 | 9.9308432 | 10.2129643 |
| 30 | 85264.02 | 163185.17 | 191388.09 | 9.9307658 | 10.2126807 |

31 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 52249.86 | 61280.08 | 117282.77 | 9.7180851 | 9.7873193 |
| 52274.66 | 61320.10 | 117303.69 | 9.7182912 | 9.7876028 |
| 52299.45 | 61360.13 | 117324.62 | 9.7184971 | 9.7878863 |
| 52324.24 | 61400.18 | 117345.57 | 9.7187030 | 9.7881696 |
| 52349.03 | 61440.24 | 117366.54 | 9.7189086 | 9.7884529 |
| 52373.81 | 61480.32 | 117387.52 | 9.7191142 | 9.7887361 |
| 52398.59 | 61520.41 | 117408.52 | 9.7193196 | 9.7890192 |
| 52423.36 | 61560.52 | 117429.54 | 9.7195249 | 9.7893023 |
| 52448.13 | 61600.64 | 117450.58 | 9.7197300 | 9.7895852 |
| 52472.90 | 61640.77 | 117471.64 | 9.7199350 | 9.7898681 |
| 52497.66 | 61680.92 | 117492.71 | 9.7201399 | 9.7901508 |
| 52522.41 | 61721.08 | 117513.80 | 9.7203447 | 9.7904335 |
| 52547.16 | 61761.26 | 117534.91 | 9.7205493 | 9.7907161 |
| 52571.91 | 61801.45 | 117556.03 | 9.7207538 | 9.7909987 |
| 52596.65 | 61841.66 | 117577.17 | 9.7209581 | 9.7912811 |
| 52621.39 | 61881.88 | 117598.33 | 9.7211623 | 9.7915635 |
| 52646.12 | 61922.11 | 117619.51 | 9.7213664 | 9.7918458 |
| 52670.85 | 61962.36 | 117640.70 | 9.7215704 | 9.7921280 |
| 52695.58 | 62002.63 | 117661.91 | 9.7217742 | 9.7924101 |
| 52720.30 | 62042.91 | 117683.14 | 9.7219779 | 9.7926921 |
| 52745.02 | 62083.20 | 117704.39 | 9.7221814 | 9.7929741 |
| 52769.73 | 62123.51 | 117725.66 | 9.7223848 | 9.7932560 |
| 52794.44 | 62163.83 | 117746.94 | 9.7225881 | 9.7935378 |
| 52819.14 | 62204.17 | 117768.24 | 9.7227913 | 9.7938195 |
| 52843.84 | 62244.52 | 117789.56 | 9.7229943 | 9.7941011 |
| 52868.53 | 62284.88 | 117810.90 | 9.7231972 | 9.7943827 |
| 52893.22 | 62325.26 | 117832.25 | 9.7234000 | 9.7946641 |
| 52917.90 | 62365.66 | 117853.62 | 9.7236026 | 9.7949455 |
| 52942.58 | 62406.07 | 117875.01 | 9.7238051 | 9.7952268 |
| 52967.26 | 62446.50 | 117896.42 | 9.7240075 | 9.7955081 |
| 52991.93 | 62486.94 | 117917.84 | 9.7242097 | 9.7957892 |

58 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 85264.02 | 163185.17 | 191388.09 | 9.9307658 | 10.2126807 |
| 29 | 85248.81 | 163078.67 | 191297.29 | 9.9306883 | 10.2123972 |
| 28 | 85233.60 | 162972.27 | 191206.59 | 9.9306109 | 10.2121137 |
| 27 | 85218.38 | 162865.97 | 191116.00 | 9.9305333 | 10.2118304 |
| 26 | 85203.16 | 162759.77 | 191025.51 | 9.9304557 | 10.2115471 |
| 25 | 85187.93 | 162653.68 | 190935.12 | 9.9303781 | 10.2112639 |
| 24 | 85172.69 | 162547.68 | 190844.83 | 9.9303004 | 10.2109808 |
| 23 | 85157.44 | 162441.78 | 190754.64 | 9.9302226 | 10.2106977 |
| 22 | 85142.19 | 162335.99 | 190664.56 | 9.9301448 | 10.2104148 |
| 21 | 85126.93 | 162230.29 | 190574.57 | 9.9300670 | 10.2101319 |
| 20 | 85111.66 | 162124.69 | 190484.69 | 9.9299891 | 10.2098492 |
| 19 | 85096.39 | 162019.20 | 190394.91 | 9.9299112 | 10.2095665 |
| 18 | 85081.11 | 161913.80 | 190305.22 | 9.9298332 | 10.2092839 |
| 17 | 85065.82 | 161808.50 | 190215.64 | 9.9297551 | 10.2090013 |
| 16 | 85050.52 | 161703.30 | 190126.16 | 9.9296770 | 10.2087189 |
| 15 | 85035.22 | 161598.20 | 190036.78 | 9.9295989 | 10.2084365 |
| 14 | 85019.91 | 161493.20 | 189947.50 | 9.9295207 | 10.2081542 |
| 13 | 85004.59 | 161388.29 | 189858.32 | 9.9294424 | 10.2078720 |
| 12 | 84989.27 | 161283.49 | 189769.24 | 9.9293641 | 10.2075899 |
| 11 | 84973.94 | 161178.78 | 189680.26 | 9.9292857 | 10.2073079 |
| 10 | 84958.60 | 161074.17 | 189591.38 | 9.9292073 | 10.2070259 |
| 9 | 84943.25 | 160969.66 | 189502.59 | 9.9291289 | 10.2067440 |
| 8 | 84927.90 | 160865.25 | 189413.91 | 9.9290504 | 10.2064622 |
| 7 | 84912.54 | 160760.94 | 189325.32 | 9.9289718 | 10.2061804 |
| 6 | 84897.17 | 160656.72 | 189236.84 | 9.9288932 | 10.2058989 |
| 5 | 84881.79 | 160552.60 | 189148.45 | 9.9288145 | 10.2056177 |
| 4 | 84866.41 | 160448.58 | 189060.16 | 9.9287358 | 10.2053359 |
| 3 | 84851.02 | 160344.65 | 188971.97 | 9.9286571 | 10.2050544 |
| 2 | 84835.62 | 160240.82 | 188883.88 | 9.9285783 | 10.2047732 |
| 1 | 84820.22 | 160137.09 | 188795.89 | 9.9284994 | 10.2044919 |
| 0 | 84804.81 | 160033.45 | 188707.99 | 9.9284205 | 10.2042109 |

32 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 52991.93 | 62486.94 | 117917.84 | 9.7242097 | 9.7957892 |
| 1 | 53016.59 | 62527.39 | 117939.28 | 9.7244118 | 9.7960703 |
| 2 | 53041.25 | 62567.86 | 117960.74 | 9.7246138 | 9.7963513 |
| 3 | 53065.91 | 62608.34 | 117982.22 | 9.7248156 | 9.7966322 |
| 4 | 53090.56 | 62648.84 | 118003.72 | 9.7250174 | 9.7969130 |
| 5 | 53115.21 | 62689.35 | 118025.23 | 9.7252189 | 9.7971938 |
| 6 | 53139.86 | 62729.88 | 118046.76 | 9.7254204 | 9.7974745 |
| 7 | 53164.50 | 62770.42 | 118068.31 | 9.7256217 | 9.7977551 |
| 8 | 53189.13 | 62810.98 | 118089.88 | 9.7258229 | 9.7980356 |
| 9 | 53213.76 | 62851.56 | 118111.47 | 9.7260240 | 9.7983160 |
| 10 | 53238.39 | 62892.15 | 118133.07 | 9.7262249 | 9.7985964 |
| 11 | 53263.01 | 62932.75 | 118154.69 | 9.7264257 | 9.7988767 |
| 12 | 53287.63 | 62973.36 | 118176.33 | 9.7266264 | 9.7991569 |
| 13 | 53312.24 | 63013.99 | 118197.99 | 9.7268269 | 9.7994370 |
| 14 | 53336.85 | 63054.64 | 118219.66 | 9.7270273 | 9.7997170 |
| 15 | 53361.45 | 63095.30 | 118241.35 | 9.7272276 | 9.7999970 |
| 16 | 53386.05 | 63135.98 | 118263.06 | 9.7274278 | 9.8002769 |
| 17 | 53410.64 | 63176.67 | 118284.79 | 9.7276278 | 9.8005567 |
| 18 | 53435.23 | 63217.38 | 118306.54 | 9.7278277 | 9.8008365 |
| 19 | 53459.82 | 63258.10 | 118328.30 | 9.7280275 | 9.8011161 |
| 20 | 53484.40 | 63298.83 | 118350.08 | 9.7282271 | 9.8013957 |
| 21 | 53508.98 | 63339.58 | 118371.88 | 9.7284267 | 9.8016752 |
| 22 | 53533.55 | 63380.35 | 118393.70 | 9.7286260 | 9.8019546 |
| 23 | 53558.12 | 63421.13 | 118415.54 | 9.7288253 | 9.8022340 |
| 24 | 53582.68 | 63461.93 | 118437.40 | 9.7290244 | 9.8025133 |
| 25 | 53607.24 | 63502.74 | 118459.27 | 9.7292234 | 9.8027925 |
| 26 | 53631.79 | 63543.57 | 118481.16 | 9.7294223 | 9.8030716 |
| 27 | 53656.34 | 63584.41 | 118503.07 | 9.7296211 | 9.8033506 |
| 28 | 53680.88 | 63625.27 | 118525.00 | 9.7298197 | 9.8036296 |
| 29 | 53705.42 | 63666.14 | 118546.94 | 9.7300182 | 9.8039085 |
| 30 | 53729.96 | 63707.03 | 118568.91 | 9.7302165 | 9.8041873 |

57 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 50 | 84804.81 | 160033.45 | 188707.99 | 9.9284205 | 10.204210 |
| 59 | 84789.39 | 159929.91 | 188626.19 | 9.9283415 | 10.203925 |
| 58 | 84773.96 | 159826.47 | 188532.49 | 9.9282625 | 10.203648 |
| 57 | 84758.53 | 159723.12 | 188444.89 | 9.9281834 | 10.203367 |
| 56 | 84743.09 | 159619.87 | 188357.38 | 9.9281043 | 10.203087 |
| 55 | 84727.64 | 159516.72 | 188269.97 | 9.9280251 | 10.202806 |
| 54 | 84712.19 | 159413.66 | 188182.66 | 9.9279459 | 10.202525 |
| 53 | 84696.73 | 159310.70 | 188095.45 | 9.9278666 | 10.202244 |
| 52 | 84681.26 | 159207.83 | 188008.33 | 9.9277873 | 10.201964 |
| 51 | 84665.78 | 159105.05 | 187921.31 | 9.9277079 | 10.201684 |
| 50 | 84650.30 | 159002.38 | 187834.38 | 9.9276285 | 10.201403 |
| 49 | 84634.81 | 158899.79 | 187747.55 | 9.9275490 | 10.201123 |
| 48 | 84619.31 | 158797.30 | 187660.82 | 9.9274695 | 10.200843 |
| 47 | 84603.81 | 158694.91 | 187574.18 | 9.9273899 | 10.200563 |
| 46 | 84588.30 | 158592.61 | 187487.64 | 9.9273103 | 10.200283 |
| 45 | 84572.78 | 158490.41 | 187401.20 | 9.9272306 | 10.200003 |
| 44 | 84557.25 | 158388.30 | 187314.85 | 9.9271509 | 10.199723 |
| 43 | 84541.72 | 158286.28 | 187228.59 | 9.9270711 | 10.199443 |
| 42 | 84526.18 | 158184.36 | 187142.43 | 9.9269913 | 10.199163 |
| 41 | 84510.63 | 158082.53 | 187056.37 | 9.9269114 | 10.198883 |
| 40 | 84495.08 | 157980.79 | 186970.40 | 9.9268314 | 10.198604 |
| 39 | 84479.52 | 157879.15 | 186884.53 | 9.9267514 | 10.198324 |
| 38 | 84463.95 | 157777.60 | 186798.75 | 9.9266714 | 10.198045 |
| 37 | 84448.37 | 157676.15 | 186713.06 | 9.9265913 | 10.197766 |
| 36 | 84432.79 | 157574.79 | 186627.47 | 9.9265112 | 10.197486 |
| 35 | 84417.20 | 157473.52 | 186541.97 | 9.9264310 | 10.197207 |
| 34 | 84401.60 | 157372.34 | 186456.57 | 9.9263507 | 10.196928 |
| 33 | 84386.00 | 157271.26 | 186371.26 | 9.9262704 | 10.196649 |
| 32 | 84370.39 | 157170.26 | 186286.05 | 9.9261901 | 10.196370 |
| 31 | 84354.77 | 157069.36 | 186200.93 | 9.9261096 | 10.196091 |
| 30 | 84339.14 | 156968.56 | 186115.90 | 9.9260292 | 10.195812 |

32 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 53729.96 | 53707.03 | 118568.91 | 9.7302165 | 9.8041873 |
| 31 | 53754.49 | 63747.93 | 118590.89 | 9.7304148 | 9.8044661 |
| 32 | 53779.02 | 63788.85 | 118612.89 | 9.7306129 | 9.8047447 |
| 33 | 53803.54 | 63829.78 | 118634.91 | 9.7308109 | 9.8050233 |
| 34 | 53828.06 | 63870.73 | 118656.95 | 9.7310087 | 9.8053019 |
| 35 | 53852.57 | 63911.69 | 118679.00 | 9.7312064 | 9.8055803 |
| 36 | 53877.08 | 63952.67 | 118701.07 | 9.7314040 | 9.8058587 |
| 37 | 53901.58 | 63993.66 | 118723.16 | 9.7316015 | 9.8061370 |
| 38 | 53926.08 | 64034.67 | 118745.27 | 9.7317989 | 9.8064152 |
| 39 | 53950.58 | 64075.69 | 118767.40 | 9.7319961 | 9.8066933 |
| 40 | 53975.07 | 64116.73 | 118789.55 | 9.7321932 | 9.8069714 |
| 41 | 53999.55 | 64157.79 | 118811.71 | 9.7323902 | 9.8072494 |
| 42 | 54024.03 | 64198.86 | 118833.89 | 9.7325870 | 9.8075273 |
| 43 | 54048.51 | 64239.95 | 118856.09 | 9.7327837 | 9.8078052 |
| 44 | 54072.98 | 64281.05 | 118878.31 | 9.7329803 | 9.8080829 |
| 45 | 54097.45 | 64322.16 | 118900.55 | 9.7331768 | 9.8083606 |
| 46 | 54121.91 | 64363.29 | 118922.81 | 9.7333731 | 9.8086383 |
| 47 | 54146.37 | 64404.44 | 118945.08 | 9.7335693 | 9.8089158 |
| 48 | 54170.82 | 64445.60 | 118967.37 | 9.7337654 | 9.8091933 |
| 49 | 54195.27 | 64486.76 | 118989.68 | 9.7339614 | 9.8094707 |
| 50 | 54219.71 | 64527.97 | 119012.01 | 9.7341572 | 9.8097480 |
| 51 | 54244.15 | 64569.18 | 119034.36 | 9.7343529 | 9.8100253 |
| 52 | 54268.59 | 64610.41 | 119056.73 | 9.7345485 | 9.8103025 |
| 53 | 54293.02 | 64651.65 | 119079.12 | 9.7347440 | 9.8105796 |
| 54 | 54317.44 | 64692.90 | 119101.52 | 9.7349393 | 9.8108566 |
| 55 | 54341.86 | 64734.17 | 119123.94 | 9.7351345 | 9.8111336 |
| 56 | 54366.28 | 64775.46 | 119146.38 | 9.7353296 | 9.8114105 |
| 57 | 54390.69 | 64816.76 | 119168.84 | 9.7355246 | 9.8116873 |
| 58 | 54415.10 | 64858.08 | 119191.32 | 9.7357195 | 9.8119641 |
| 59 | 54439.50 | 64899.41 | 119213.82 | 9.7359142 | 9.8122408 |
| 60 | 54463.90 | 64940.76 | 119236.33 | 9.7361088 | 9.8125174 |

57 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|-----------|-----------|-----------|-----------|------------|
| 10 | 84339.14 | 156968.56 | 186115.90 | 9.9260292 | 10.1958127 |
| 19 | 84323.51 | 156867.84 | 186030.96 | 9.9259487 | 10.1955339 |
| 18 | 84307.87 | 156767.22 | 185946.12 | 9.9258681 | 10.1952553 |
| 17 | 84292.22 | 156666.69 | 185861.38 | 9.9257875 | 10.1949767 |
| 16 | 84276.57 | 156566.25 | 185776.72 | 9.9257069 | 10.1946981 |
| 15 | 84260.91 | 156465.90 | 185692.16 | 9.9256261 | 10.1944197 |
| 14 | 84245.24 | 156365.64 | 185607.69 | 9.9255454 | 10.1941413 |
| 13 | 84229.56 | 156265.48 | 185523.31 | 9.9254646 | 10.1938630 |
| 12 | 84213.88 | 156165.40 | 185439.03 | 9.9253837 | 10.1935848 |
| 11 | 84198.19 | 156065.42 | 185354.83 | 9.9253028 | 10.1933067 |
| 10 | 84182.49 | 155965.52 | 185270.73 | 9.9252218 | 10.1930286 |
| 9 | 84166.79 | 155865.72 | 185186.72 | 9.9251408 | 10.1927506 |
| 8 | 84151.08 | 155766.01 | 185102.81 | 9.9250597 | 10.1924727 |
| 7 | 84135.36 | 155666.39 | 185018.98 | 9.9249786 | 10.1921948 |
| 6 | 84119.63 | 155566.85 | 184935.25 | 9.9248974 | 10.1919171 |
| 5 | 84103.90 | 155467.41 | 184851.61 | 9.9248161 | 10.1916394 |
| 4 | 84088.16 | 155368.06 | 184768.05 | 9.9247349 | 10.1913617 |
| 3 | 84072.41 | 155268.80 | 184684.59 | 9.9246535 | 10.1910842 |
| 2 | 84056.66 | 155169.63 | 184601.23 | 9.9245721 | 10.1908067 |
| 1 | 84040.90 | 155070.54 | 184517.95 | 9.9244907 | 10.1905293 |
| 0 | 84025.13 | 154971.55 | 184434.76 | 9.9244092 | 10.1902520 |
| | 984009.35 | 154872.64 | 184351.66 | 9.9243277 | 10.1899747 |
| 8 | 83993.57 | 154773.83 | 184268.66 | 9.9242461 | 10.1896975 |
| 7 | 83977.78 | 154675.10 | 184185.74 | 9.9241644 | 10.1894204 |
| 6 | 83961.98 | 154576.46 | 184102.92 | 9.9240827 | 10.1891434 |
| 5 | 83946.18 | 154477.92 | 184020.18 | 9.9240010 | 10.1888664 |
| 4 | 83930.37 | 154379.46 | 183937.53 | 9.9239191 | 10.1885895 |
| 3 | 83914.55 | 154281.08 | 183854.98 | 9.9238373 | 10.1883127 |
| 2 | 83898.73 | 154182.80 | 183772.51 | 9.9237554 | 10.1880359 |
| 1 | 83882.90 | 154084.60 | 183690.13 | 9.9236734 | 10.1877592 |
| 0 | 83867.06 | 153986.50 | 183607.84 | 9.9235914 | 10.1874826 |

33 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 54463.90 | 64940.76 | 119235.33 | 9.7361088 | 9.8125174 |
| 54488.30 | 64982.12 | 119258.86 | 9.7363032 | 9.8127939 |
| 54512.65 | 65023.50 | 119281.41 | 9.7364976 | 9.8130704 |
| 54537.07 | 65064.90 | 119303.98 | 9.7366918 | 9.8133468 |
| 54561.45 | 65106.31 | 119326.57 | 9.7368859 | 9.8136231 |
| 54585.83 | 65147.74 | 119349.18 | 9.7370799 | 9.8138993 |
| 54610.20 | 65189.18 | 119371.81 | 9.7372737 | 9.8141755 |
| 54634.56 | 65230.64 | 119394.46 | 9.7374675 | 9.8144516 |
| 54658.92 | 65272.11 | 119417.12 | 9.7376611 | 9.8147277 |
| 54683.28 | 65313.60 | 119439.80 | 9.7378546 | 9.8150036 |
| 54707.63 | 65355.11 | 119462.50 | 9.7380479 | 9.8152795 |
| 54731.98 | 65396.63 | 119485.22 | 9.7382412 | 9.8155554 |
| 54756.32 | 65438.17 | 119507.96 | 9.7384343 | 9.8158311 |
| 54780.66 | 65479.72 | 119530.72 | 9.7386273 | 9.8161068 |
| 54804.99 | 65521.29 | 119553.50 | 9.7388201 | 9.8163824 |
| 54829.32 | 65562.87 | 119576.30 | 9.7390129 | 9.8166580 |
| 54853.65 | 65604.47 | 119599.11 | 9.7392055 | 9.8169335 |
| 54877.97 | 65646.09 | 119621.94 | 9.7393980 | 9.8172089 |
| 54902.28 | 65687.72 | 119644.79 | 9.7395904 | 9.8174842 |
| 54926.59 | 65729.37 | 119667.66 | 9.7397827 | 9.8177595 |
| 54950.90 | 65771.03 | 119690.55 | 9.7399748 | 9.8180347 |
| 54975.20 | 65812.71 | 119713.46 | 9.7401668 | 9.8183098 |
| 54999.50 | 65854.41 | 119736.39 | 9.7403587 | 9.8185849 |
| 55023.79 | 65896.12 | 119759.34 | 9.7405505 | 9.8188599 |
| 55048.08 | 65937.85 | 119782.31 | 9.7407421 | 9.8191348 |
| 55072.36 | 65979.59 | 119805.29 | 9.7409337 | 9.8194096 |
| 55096.64 | 66021.35 | 119828.29 | 9.7411251 | 9.8196844 |
| 55120.91 | 66063.13 | 119851.31 | 9.7413164 | 9.8199592 |
| 55145.18 | 66104.92 | 119874.35 | 9.7415075 | 9.8202338 |
| 55169.44 | 66146.73 | 119897.41 | 9.7416986 | 9.8205084 |
| 55193.70 | 66188.56 | 119920.49 | 9.7418895 | 9.8207829 |

56 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 83867.06 | 153986.50 | 183607.84 | 9.9235914 | 10.1874826 |
| 59 | 83851.21 | 153888.48 | 183525.64 | 9.9235093 | 10.1872061 |
| 58 | 83835.36 | 153790.55 | 183443.53 | 9.9234272 | 10.1869296 |
| 57 | 83819.50 | 153692.70 | 183361.51 | 9.9233405 | 10.1866532 |
| 56 | 83803.63 | 153594.94 | 183279.58 | 9.9232628 | 10.1863769 |
| 55 | 83787.75 | 153497.27 | 183197.74 | 9.9231805 | 10.1861007 |
| 54 | 83771.87 | 153399.69 | 183115.99 | 9.9230982 | 10.1858245 |
| 53 | 83755.98 | 153302.20 | 183034.32 | 9.9230158 | 10.1855484 |
| 52 | 83740.08 | 153204.79 | 182952.74 | 9.9229334 | 10.1852723 |
| 51 | 83724.18 | 153107.47 | 182871.25 | 9.9228509 | 10.1849964 |
| 50 | 83708.27 | 153010.23 | 182789.85 | 9.9227684 | 10.1847205 |
| 49 | 83692.35 | 152913.08 | 182708.54 | 9.9226858 | 10.1844446 |
| 48 | 83676.43 | 152816.02 | 182627.31 | 9.9226032 | 10.1841689 |
| 47 | 83660.50 | 152719.04 | 182546.17 | 9.9225205 | 10.1838932 |
| 46 | 83644.56 | 152622.15 | 182465.12 | 9.9224377 | 10.1836176 |
| 45 | 83628.61 | 152525.35 | 182384.16 | 9.9223549 | 10.1833420 |
| 44 | 83612.66 | 152428.63 | 182303.28 | 9.9222721 | 10.1830665 |
| 43 | 83596.70 | 152332.00 | 182222.49 | 9.9221891 | 10.1827911 |
| 42 | 83580.73 | 152235.45 | 182141.79 | 9.9221062 | 10.1825158 |
| 41 | 83564.76 | 152138.99 | 182061.18 | 9.9220232 | 10.1822405 |
| 40 | 83548.78 | 152042.61 | 181980.65 | 9.9219401 | 10.1819653 |
| 39 | 83532.79 | 151946.32 | 181900.21 | 9.9218570 | 10.1816902 |
| 38 | 83516.80 | 151850.12 | 181819.85 | 9.9217738 | 10.1814151 |
| 37 | 83500.80 | 151754.00 | 181739.58 | 9.9216906 | 10.1811401 |
| 36 | 83484.79 | 151657.96 | 181659.40 | 9.9216073 | 10.1808652 |
| 35 | 83468.77 | 151562.01 | 181579.30 | 9.9215240 | 10.1805904 |
| 34 | 83452.75 | 151466.14 | 181499.29 | 9.9214406 | 10.1803156 |
| 33 | 83436.72 | 151370.36 | 181419.37 | 9.9213572 | 10.1800408 |
| 32 | 83420.68 | 151274.66 | 181339.53 | 9.9212737 | 10.1797662 |
| 31 | 83404.63 | 151179.05 | 181259.77 | 9.9211902 | 10.1794916 |
| 30 | 83388.58 | 151083.52 | 181180.10 | 9.9211066 | 10.1792171 |

33 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 55193.70 | 66188.56 | 119920.49 | 9.7418895 | 9.8207829 |
| 31 | 55217.95 | 66230.40 | 119943.59 | 9.7420803 | 9.8210574 |
| 32 | 55242.20 | 66272.26 | 119966.71 | 9.7422710 | 9.8213317 |
| 33 | 55266.45 | 66314.13 | 119989.85 | 9.7424616 | 9.8216060 |
| 34 | 55290.69 | 66356.02 | 120013.01 | 9.7426520 | 9.8218803 |
| 35 | 55314.92 | 66397.92 | 120036.19 | 9.7428423 | 9.8221545 |
| 36 | 55339.15 | 66439.84 | 120059.38 | 9.7430325 | 9.8224286 |
| 37 | 55363.38 | 66481.78 | 120082.59 | 9.7432226 | 9.8227026 |
| 38 | 55387.60 | 66523.73 | 120105.82 | 9.7434126 | 9.8229766 |
| 39 | 55411.82 | 66565.70 | 120129.07 | 9.7436024 | 9.8232505 |
| 40 | 55436.03 | 66607.69 | 120152.34 | 9.7437921 | 9.8235244 |
| 41 | 55460.24 | 66649.69 | 120175.63 | 9.7439817 | 9.8237981 |
| 42 | 55484.44 | 66691.71 | 120198.94 | 9.7441712 | 9.8240719 |
| 43 | 55508.64 | 66733.75 | 120222.27 | 9.7443606 | 9.8243455 |
| 44 | 55532.83 | 66775.80 | 120245.62 | 9.7445498 | 9.8246191 |
| 45 | 55557.02 | 66817.87 | 120268.99 | 9.7447390 | 9.8248926 |
| 46 | 55581.21 | 66859.95 | 120292.37 | 9.7449280 | 9.8251660 |
| 47 | 55605.39 | 66902.05 | 120315.77 | 9.7451169 | 9.8254394 |
| 48 | 55629.56 | 66944.17 | 120339.19 | 9.7453056 | 9.8257127 |
| 49 | 55653.73 | 66986.30 | 120362.64 | 9.7454943 | 9.8259860 |
| 50 | 55677.90 | 67028.45 | 120386.10 | 9.7456828 | 9.8262592 |
| 51 | 55702.06 | 67070.62 | 120409.58 | 9.7458712 | 9.8265323 |
| 52 | 55726.21 | 67112.80 | 120433.08 | 9.7460595 | 9.8268053 |
| 53 | 55750.36 | 67155.00 | 120456.60 | 9.7462477 | 9.8270783 |
| 54 | 55774.51 | 67197.21 | 120480.14 | 9.7464358 | 9.8273513 |
| 55 | 55798.65 | 67239.44 | 120503.70 | 9.7466237 | 9.8276241 |
| 56 | 55822.79 | 67281.69 | 120527.28 | 9.7468115 | 9.8278969 |
| 57 | 55846.92 | 67323.96 | 120550.88 | 9.7469992 | 9.8281696 |
| 58 | 55871.05 | 67366.24 | 120574.50 | 9.7471868 | 9.8284423 |
| 59 | 55895.17 | 67408.54 | 120598.14 | 9.7473743 | 9.8287149 |
| 60 | 55919.29 | 67450.85 | 120621.80 | 9.7475617 | 9.8289874 |

56 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 83388.58 | 151083.52 | 181180.10 | 9.9211066 | 10.179217 |
| 29 | 83372.52 | 150988.07 | 181100.52 | 9.9210229 | 10.178942 |
| 28 | 83356.45 | 150892.71 | 181021.02 | 9.9209393 | 10.178668 |
| 27 | 83340.38 | 150797.43 | 180941.61 | 9.9208555 | 10.178394 |
| 26 | 83324.30 | 150702.24 | 180862.28 | 9.9207717 | 10.178119 |
| 25 | 83308.21 | 150607.13 | 180783.04 | 9.9206878 | 10.177845 |
| 24 | 83292.12 | 150512.10 | 180703.88 | 9.9206039 | 10.177571 |
| 23 | 83276.02 | 150417.16 | 180624.81 | 9.9205200 | 10.177297 |
| 22 | 83259.91 | 150322.30 | 180545.82 | 9.9204360 | 10.177023 |
| 21 | 83243.80 | 150227.52 | 180466.91 | 9.9203519 | 10.176749 |
| 20 | 83227.68 | 150132.82 | 180388.09 | 9.9202678 | 10.176476 |
| 19 | 83211.55 | 150038.20 | 180309.35 | 9.9201836 | 10.176209 |
| 18 | 83195.41 | 149943.67 | 180230.70 | 9.9200994 | 10.175921 |
| 17 | 83179.27 | 149849.22 | 180152.13 | 9.9200151 | 10.175655 |
| 16 | 83163.12 | 149754.86 | 180073.65 | 9.9199308 | 10.175389 |
| 15 | 83146.96 | 149660.58 | 179995.25 | 9.9198464 | 10.175107 |
| 14 | 83130.79 | 149566.38 | 179916.93 | 9.9197619 | 10.174834 |
| 13 | 83114.62 | 149472.26 | 179838.69 | 9.9196775 | 10.174560 |
| 12 | 83098.44 | 149378.22 | 179760.54 | 9.9195929 | 10.174287 |
| 11 | 83082.26 | 149284.26 | 179682.47 | 9.9195083 | 10.174014 |
| 10 | 83066.07 | 149190.38 | 179604.48 | 9.9194237 | 10.173740 |
| 9 | 83049.87 | 149096.59 | 179526.58 | 9.9193390 | 10.173467 |
| 8 | 83033.66 | 149002.88 | 179448.76 | 9.9192542 | 10.173194 |
| 7 | 83017.45 | 148909.25 | 179371.02 | 9.9191694 | 10.172921 |
| 6 | 83001.23 | 148815.70 | 179293.37 | 9.9190845 | 10.172648 |
| 5 | 82985.00 | 148722.23 | 179215.80 | 9.9189996 | 10.172375 |
| 4 | 82968.76 | 148628.84 | 179138.31 | 9.9189146 | 10.172103 |
| 3 | 82952.52 | 148535.53 | 179060.90 | 9.9188296 | 10.171830 |
| 2 | 82936.27 | 148442.30 | 178983.58 | 9.9187445 | 10.171557 |
| 1 | 82920.02 | 148349.16 | 178906.33 | 9.9186594 | 10.171285 |
| 0 | 82903.76 | 148256.10 | 178829.16 | 9.9185742 | 10.171012 |

34 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 55919.29 | 67450.85 | 120621.80 | 9.7475617 | 9.8289874 |
| 1 | 55943.40 | 67493.18 | 120645.48 | 9.7477489 | 9.8292599 |
| 2 | 55967.51 | 67535.53 | 120669.18 | 9.7479360 | 9.8295323 |
| 3 | 55991.61 | 67577.90 | 120692.89 | 9.7481230 | 9.8298047 |
| 4 | 56015.71 | 67620.28 | 120716.62 | 9.7483099 | 9.8300769 |
| 5 | 56039.81 | 67662.68 | 120740.37 | 9.7484967 | 9.8303492 |
| 6 | 56063.90 | 67705.09 | 120764.14 | 9.7486833 | 9.8306213 |
| 7 | 56087.98 | 67747.52 | 120787.93 | 9.7488698 | 9.8308934 |
| 8 | 56112.06 | 67789.97 | 120811.75 | 9.7490562 | 9.8311654 |
| 9 | 56136.14 | 67832.44 | 120835.59 | 9.7492425 | 9.8314374 |
| 10 | 56160.21 | 67874.92 | 120859.44 | 9.7494287 | 9.8317093 |
| 11 | 56184.28 | 67917.42 | 120883.31 | 9.7496148 | 9.8319811 |
| 12 | 56208.34 | 67959.93 | 120907.20 | 9.7498007 | 9.8322529 |
| 13 | 56232.39 | 68002.46 | 120931.12 | 9.7499866 | 9.8325246 |
| 14 | 56256.44 | 68045.01 | 120955.05 | 9.7501723 | 9.8327963 |
| 15 | 56280.49 | 68087.58 | 120979.00 | 9.7503579 | 9.8330679 |
| 16 | 56304.53 | 68130.16 | 121002.97 | 9.7505434 | 9.8333394 |
| 17 | 56328.57 | 68172.76 | 121026.96 | 9.7507287 | 9.8336109 |
| 18 | 56352.60 | 68215.38 | 121050.97 | 9.7509140 | 9.8338823 |
| 19 | 56376.63 | 68258.01 | 121075.00 | 9.7510991 | 9.8341536 |
| 20 | 56400.65 | 68300.66 | 121099.05 | 9.7512842 | 9.8344249 |
| 21 | 56424.67 | 68343.33 | 121123.12 | 9.7514691 | 9.8346961 |
| 22 | 56448.69 | 68386.01 | 121147.21 | 9.7516538 | 9.8349673 |
| 23 | 56472.70 | 68428.71 | 121171.32 | 9.7518385 | 9.8352384 |
| 24 | 56496.70 | 68471.43 | 121195.45 | 9.7520231 | 9.8355094 |
| 25 | 56520.70 | 68514.17 | 121219.60 | 9.7522075 | 9.8357804 |
| 26 | 56544.69 | 68556.92 | 121243.77 | 9.7523919 | 9.8360513 |
| 27 | 56568.68 | 68599.69 | 121267.96 | 9.7525761 | 9.8363221 |
| 28 | 56592.57 | 68642.47 | 121292.17 | 9.7527602 | 9.8365929 |
| 29 | 56616.65 | 68685.27 | 121316.40 | 9.7529442 | 9.8368636 |
| 30 | 56640.62 | 68728.10 | 121340.64 | 9.7531280 | 9.8371343 |

55 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 82903.76 | 148256.10 | 178829.16 | 9.9185742 | 10.1710126 |
| 59 | 82887.49 | 148163.11 | 178752.08 | 9.9184890 | 10.1707401 |
| 58 | 82871.21 | 148070.21 | 178675.08 | 9.9184037 | 10.1704677 |
| 57 | 82854.93 | 147977.38 | 178598.17 | 9.9183183 | 10.1701953 |
| 56 | 82838.64 | 147884.63 | 178521.33 | 9.9182329 | 10.1699231 |
| 55 | 82822.34 | 147791.97 | 178444.57 | 9.9181475 | 10.1696508 |
| 54 | 82806.03 | 147699.38 | 178367.90 | 9.9180620 | 10.1693787 |
| 53 | 82789.72 | 147606.88 | 178291.31 | 9.9179764 | 10.1691066 |
| 52 | 82773.40 | 147514.45 | 178214.79 | 9.9178908 | 10.1688346 |
| 51 | 82757.07 | 147422.10 | 178138.36 | 9.9178051 | 10.1685626 |
| 50 | 82740.74 | 147329.83 | 178092.01 | 9.9177194 | 10.1682907 |
| 49 | 82724.40 | 147237.64 | 177985.74 | 9.9176336 | 10.1680189 |
| 48 | 82708.05 | 147145.53 | 177909.55 | 9.9175478 | 10.1677471 |
| 47 | 82691.70 | 147053.50 | 177833.43 | 9.9174619 | 10.1674754 |
| 46 | 82675.34 | 146961.55 | 177757.40 | 9.9173760 | 10.1672037 |
| 45 | 82658.97 | 146869.67 | 177681.45 | 9.9172900 | 10.1669321 |
| 44 | 82642.60 | 146777.87 | 177605.58 | 9.9172040 | 10.1666606 |
| 43 | 82626.22 | 146686.16 | 177529.79 | 9.9171179 | 10.1663891 |
| 42 | 82609.83 | 146594.52 | 177454.08 | 9.9170317 | 10.1661177 |
| 41 | 82593.43 | 146502.96 | 177378.45 | 9.9169455 | 10.1658464 |
| 40 | 82577.03 | 146411.47 | 177302.90 | 9.9168593 | 10.1655751 |
| 39 | 82560.62 | 146320.07 | 177227.43 | 9.9167730 | 10.1653039 |
| 38 | 82544.20 | 146228.74 | 177152.04 | 9.9166866 | 10.1650327 |
| 37 | 82527.78 | 146137.49 | 177076.73 | 9.9166002 | 10.1647616 |
| 36 | 82511.35 | 146046.32 | 177001.49 | 9.9165137 | 10.1644906 |
| 35 | 82494.91 | 145955.22 | 176926.33 | 9.9164272 | 10.1642196 |
| 34 | 82478.47 | 145864.20 | 176851.25 | 9.9163406 | 10.1639487 |
| 33 | 82462.02 | 145773.26 | 176776.25 | 9.9162539 | 10.1636779 |
| 32 | 82445.56 | 145682.44 | 176701.33 | 9.9161673 | 10.1634071 |
| 31 | 82429.09 | 145591.61 | 176626.49 | 9.9160805 | 10.1631364 |
| 30 | 82412.62 | 145500.90 | 176551.73 | 9.9159937 | 10.1628657 |

35 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 57357.64 | 70020.75 | 122077.46 | 9.7585913 | 9.8452268 |
| 57381.47 | 70064.11 | 122102.33 | 9.7587717 | 9.8454956 |
| 57405.29 | 70107.49 | 122127.23 | 9.7589519 | 9.8457644 |
| 57429.11 | 70150.89 | 122152.15 | 9.7591321 | 9.8460332 |
| 57452.92 | 70194.30 | 122177.08 | 9.7593121 | 9.8463018 |
| 57476.72 | 70237.73 | 122202.04 | 9.7594920 | 9.8465705 |
| 57500.52 | 70281.18 | 122227.02 | 9.7596718 | 9.8468390 |
| 57524.32 | 70324.65 | 122252.02 | 9.7598515 | 9.8471075 |
| 57548.11 | 70368.13 | 122277.03 | 9.7600311 | 9.8473760 |
| 57571.90 | 70411.63 | 122302.07 | 9.7602106 | 9.8476444 |
| 57595.68 | 70455.15 | 122327.13 | 9.7603899 | 9.8479127 |
| 57619.46 | 70498.69 | 122352.21 | 9.7605692 | 9.8481810 |
| 57643.23 | 70542.24 | 122377.32 | 9.7607483 | 9.8484492 |
| 57667.00 | 70585.81 | 122402.44 | 9.7609274 | 9.8487174 |
| 57690.76 | 70629.40 | 122427.58 | 9.7611063 | 9.8489855 |
| 57714.52 | 70673.01 | 122452.74 | 9.7612851 | 9.8492536 |
| 57738.27 | 70716.64 | 122477.93 | 9.7614638 | 9.8495216 |
| 57762.02 | 70760.29 | 122503.13 | 9.7616424 | 9.8497896 |
| 57785.76 | 70803.95 | 122528.36 | 9.7618208 | 9.8500575 |
| 57809.50 | 70847.63 | 122553.61 | 9.7619992 | 9.8503253 |
| 57833.23 | 70891.33 | 122578.87 | 9.7621775 | 9.8505931 |
| 57856.96 | 70935.05 | 122604.16 | 9.7623556 | 9.8508608 |
| 57880.68 | 70978.78 | 122629.47 | 9.7625337 | 9.8511285 |
| 57904.40 | 71022.53 | 122654.80 | 9.7627116 | 9.8513961 |
| 57928.12 | 71066.30 | 122680.15 | 9.7628894 | 9.8516637 |
| 57951.83 | 71110.09 | 122705.52 | 9.7630671 | 9.8519312 |
| 57975.53 | 71153.90 | 122730.91 | 9.7632447 | 9.8521987 |
| 57999.23 | 71197.73 | 122756.33 | 9.7634222 | 9.8524661 |
| 58022.92 | 71241.57 | 122781.76 | 9.7635996 | 9.8527335 |
| 58046.61 | 71285.43 | 122807.21 | 9.7637769 | 9.8530008 |
| 58070.30 | 71329.31 | 122832.69 | 9.7639540 | 9.8532680 |

54 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 81915.21 | 142814.80 | 174344.68 | 9.9133645 | 10.1547732 |
| 59 | 81898.52 | 142726.42 | 174272.29 | 9.9132760 | 10.1545044 |
| 58 | 81881.82 | 142638.11 | 174199.97 | 9.9131875 | 10.1542356 |
| 57 | 81865.12 | 142549.87 | 174127.73 | 9.9130989 | 10.1539668 |
| 56 | 81848.41 | 142461.71 | 174055.56 | 9.9130102 | 10.1536982 |
| 55 | 81831.69 | 142373.62 | 173983.47 | 9.9129215 | 10.1534295 |
| 54 | 81814.97 | 142285.61 | 173911.45 | 9.9128328 | 10.1531610 |
| 53 | 81798.24 | 142197.66 | 173839.51 | 9.9127440 | 10.1528925 |
| 52 | 81781.50 | 142109.79 | 173767.64 | 9.9126551 | 10.1526240 |
| 51 | 81764.76 | 142022.00 | 173695.85 | 9.9125662 | 10.1523556 |
| 50 | 81748.01 | 141934.27 | 173624.13 | 9.9124772 | 10.1520873 |
| 49 | 81731.25 | 141846.62 | 173552.47 | 9.9123882 | 10.1518190 |
| 48 | 81714.49 | 141759.04 | 173480.90 | 9.9122991 | 10.1515508 |
| 47 | 81697.72 | 141671.53 | 173409.41 | 9.9122099 | 10.1512826 |
| 46 | 81680.94 | 141584.09 | 173337.98 | 9.9121207 | 10.1510145 |
| 45 | 81664.15 | 141496.73 | 173266.63 | 9.9120315 | 10.1507464 |
| 44 | 81647.36 | 141409.43 | 173195.35 | 9.9119422 | 10.1504784 |
| 43 | 81630.56 | 141322.21 | 173124.14 | 9.9118528 | 10.1502104 |
| 42 | 81613.76 | 141235.06 | 173053.01 | 9.9117634 | 10.1499425 |
| 41 | 81596.95 | 141147.99 | 172981.95 | 9.9116739 | 10.1496747 |
| 40 | 81580.13 | 141060.98 | 172910.96 | 9.9115844 | 10.1494069 |
| 39 | 81563.30 | 140974.05 | 172840.05 | 9.9114948 | 10.1491392 |
| 38 | 81546.47 | 140887.18 | 172769.21 | 9.9114051 | 10.1488714 |
| 37 | 81529.63 | 140800.39 | 172698.44 | 9.9113155 | 10.1486035 |
| 36 | 81512.78 | 140713.67 | 172627.74 | 9.9112257 | 10.1483356 |
| 35 | 81495.93 | 140627.02 | 172557.12 | 9.9111359 | 10.1480678 |
| 34 | 81479.06 | 140540.44 | 172486.57 | 9.9110460 | 10.1478001 |
| 33 | 81462.19 | 140453.93 | 172416.09 | 9.9109561 | 10.1475323 |
| 32 | 81445.32 | 140367.49 | 172345.68 | 9.9108661 | 10.1472646 |
| 31 | 81428.44 | 140281.13 | 172275.34 | 9.9107761 | 10.1469969 |
| 30 | 81411.55 | 140194.83 | 172205.08 | 6.9106860 | 10.1467292 |

35 Grad.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---|----------|----------|-----------|-----------|------------|
| 0 | 58070.30 | 71329.31 | 122832.69 | 9.7639540 | 9.8532680 |
| 1 | 58093.98 | 71373.21 | 122858.19 | 9.7641311 | 9.8535352 |
| 2 | 58117.65 | 71417.13 | 122883.71 | 9.7643080 | 9.8538023 |
| 3 | 58141.32 | 71461.06 | 122909.25 | 9.7644849 | 9.8540694 |
| 4 | 58164.98 | 71505.01 | 122934.81 | 9.7646616 | 9.8543365 |
| 5 | 58188.64 | 71548.98 | 122960.39 | 9.7648382 | 9.8546034 |
| 6 | 58212.30 | 71592.97 | 122985.99 | 9.7650147 | 9.8548704 |
| 7 | 58235.95 | 71636.98 | 123011.61 | 9.7651911 | 9.8551372 |
| 8 | 58259.59 | 71681.01 | 123037.25 | 9.7653674 | 9.8554041 |
| 9 | 58283.23 | 71725.05 | 123062.92 | 9.7655436 | 9.8556708 |
| 0 | 58306.87 | 71769.11 | 123088.61 | 9.7657197 | 9.8559376 |
| 1 | 58330.50 | 71813.19 | 123114.32 | 9.7658957 | 9.8562042 |
| 2 | 58354.12 | 71857.29 | 123140.05 | 9.7660715 | 9.8564708 |
| 3 | 58377.74 | 71901.41 | 123165.80 | 9.7662473 | 9.8567374 |
| 4 | 58401.36 | 71945.55 | 123191.57 | 9.7664229 | 9.8570039 |
| 5 | 58424.97 | 71989.70 | 123217.36 | 9.7665985 | 9.8572704 |
| 6 | 58448.57 | 72033.87 | 123243.17 | 9.7667739 | 9.8575368 |
| 7 | 58472.17 | 72078.06 | 123269.00 | 9.7669492 | 9.8578031 |
| 8 | 58495.77 | 72122.27 | 123294.86 | 9.7671244 | 9.8580694 |
| 9 | 58519.36 | 72166.50 | 123320.74 | 9.7672996 | 9.8583357 |
| 0 | 58542.94 | 72210.75 | 123346.64 | 9.7674746 | 9.8586019 |
| 1 | 58566.52 | 72255.02 | 123372.56 | 9.7676494 | 9.8588680 |
| 2 | 58590.10 | 72299.31 | 123398.50 | 9.7678242 | 9.8591341 |
| 3 | 58613.67 | 72343.61 | 123424.46 | 9.7679989 | 9.8594002 |
| 4 | 58637.24 | 72387.93 | 123450.44 | 9.7681735 | 9.8596661 |
| 5 | 58660.80 | 72432.27 | 123476.45 | 9.7683480 | 9.8599321 |
| 6 | 58684.35 | 72476.63 | 123502.48 | 9.7685223 | 9.8601980 |
| 7 | 58707.90 | 72521.01 | 123528.52 | 9.7686966 | 9.8604638 |
| 8 | 58731.45 | 72565.41 | 123554.59 | 9.7688707 | 9.8607296 |
| 9 | 58754.99 | 72609.83 | 123580.68 | 9.7690448 | 9.8609954 |
| 0 | 58778.53 | 72854.26 | 123606.80 | 9.7692187 | 9.8612610 |

54 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 81411.55 | 140194.83 | 172205.08 | 9.9106860 | 10.1467320 |
| 29 | 81394.65 | 140108.60 | 172134.89 | 9.9105959 | 10.1464648 |
| 28 | 81377.75 | 140022.45 | 172064.77 | 9.9105057 | 10.1461977 |
| 27 | 81360.84 | 139936.36 | 171994.72 | 9.9104155 | 10.1459306 |
| 26 | 81343.93 | 139850.34 | 171924.75 | 9.9103251 | 10.1456635 |
| 25 | 81327.01 | 139764.40 | 171854.84 | 9.9102348 | 10.1453966 |
| 24 | 81310.08 | 139678.52 | 171785.01 | 9.9101444 | 10.1451296 |
| 23 | 81293.14 | 139592.72 | 171715.25 | 9.9100539 | 10.1448628 |
| 22 | 81276.20 | 139506.98 | 171645.56 | 9.9099634 | 10.1445959 |
| 21 | 81259.25 | 139421.31 | 171575.94 | 9.9098728 | 10.1443292 |
| 20 | 81242.29 | 139335.71 | 171506.39 | 9.9097821 | 10.1440624 |
| 19 | 81225.32 | 139250.18 | 171436.91 | 9.9096915 | 10.1437958 |
| 18 | 81208.35 | 139164.73 | 171367.50 | 9.9096007 | 10.1435292 |
| 17 | 81191.37 | 139079.34 | 171298.17 | 9.9095099 | 10.1432626 |
| 16 | 81174.39 | 138994.01 | 171228.90 | 9.9094190 | 10.1429961 |
| 15 | 81157.40 | 138908.76 | 171159.70 | 9.9093281 | 10.1427296 |
| 14 | 81140.40 | 138823.58 | 171090.58 | 9.9092371 | 10.1424632 |
| 13 | 81123.39 | 138738.46 | 171021.52 | 9.9091461 | 10.1421969 |
| 12 | 81106.38 | 138653.42 | 170952.54 | 9.9090550 | 10.1419306 |
| 11 | 81089.36 | 138568.44 | 170883.62 | 9.9089639 | 10.1416643 |
| 10 | 81072.33 | 138483.53 | 170814.78 | 9.9088727 | 10.1413981 |
| 9 | 81055.30 | 138398.69 | 170746.00 | 9.9087814 | 10.1411320 |
| 8 | 81038.26 | 138313.92 | 170677.30 | 9.9086901 | 10.1408659 |
| 7 | 81021.21 | 138229.22 | 170608.66 | 9.9085988 | 10.1405998 |
| 6 | 81004.16 | 138144.58 | 170540.10 | 9.9085073 | 10.1403339 |
| 5 | 80987.10 | 138060.01 | 170471.60 | 9.9084159 | 10.1400679 |
| 4 | 80970.03 | 137975.51 | 170403.18 | 9.9083243 | 10.1398020 |
| 3 | 80952.96 | 137891.08 | 170334.82 | 9.9082327 | 10.1395362 |
| 2 | 80935.88 | 137806.72 | 170266.53 | 9.9081411 | 10.1392704 |
| 1 | 80918.79 | 137722.42 | 170198.31 | 9.9080494 | 10.1390046 |
| 0 | 80901.70 | 137638.19 | 170130.16 | 9.9079576 | 10.1387390 |

36 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 58778.53 | 72654.26 | 123606.80 | 9.7692187 | 9.8612610 |
| 1 | 58802.06 | 72698.71 | 123632.94 | 9.7693925 | 9.8615267 |
| 2 | 58825.58 | 72743.18 | 123659.09 | 9.7695662 | 9.8617923 |
| 3 | 58849.10 | 72787.67 | 123685.26 | 9.7697398 | 9.8620578 |
| 4 | 58872.62 | 72832.18 | 123711.48 | 9.7699134 | 9.8623233 |
| 5 | 58896.13 | 72876.71 | 123737.68 | 9.7700868 | 9.8625887 |
| 6 | 58919.64 | 72921.26 | 123763.93 | 9.7702601 | 9.8628541 |
| 7 | 58943.14 | 72965.82 | 123790.19 | 9.7704332 | 9.8631195 |
| 8 | 58966.63 | 73010.40 | 123816.47 | 9.7706063 | 9.8633848 |
| 9 | 58990.12 | 73055.01 | 123842.78 | 9.7707793 | 9.8636500 |
| 10 | 59013.61 | 73099.63 | 123869.11 | 9.7709522 | 9.8639152 |
| 11 | 59037.09 | 73144.27 | 123895.46 | 9.7711249 | 9.8641803 |
| 12 | 59060.57 | 73188.94 | 123921.83 | 9.7712976 | 9.8644454 |
| 13 | 59084.04 | 73233.62 | 123948.22 | 9.7714702 | 9.8647105 |
| 14 | 59107.50 | 73278.31 | 123974.64 | 9.7716426 | 9.8649755 |
| 15 | 59130.96 | 73323.03 | 124001.08 | 9.7718150 | 9.8652404 |
| 16 | 59154.42 | 73367.77 | 124027.54 | 9.7719872 | 9.8655053 |
| 17 | 59177.87 | 73412.53 | 124054.02 | 9.7721593 | 9.8657702 |
| 18 | 59201.32 | 73457.30 | 124080.52 | 9.7723314 | 9.8660350 |
| 19 | 59224.76 | 73502.10 | 124107.04 | 9.7725033 | 9.8662997 |
| 20 | 59248.19 | 73546.91 | 124133.59 | 9.7726751 | 9.8665644 |
| 21 | 59271.62 | 73591.74 | 124160.16 | 9.7728468 | 9.8668291 |
| 22 | 59295.05 | 73636.60 | 124186.75 | 9.7730185 | 9.8670937 |
| 23 | 59318.47 | 73681.47 | 124213.36 | 9.7731900 | 9.8673583 |
| 24 | 59341.89 | 73726.36 | 124239.99 | 9.7733614 | 9.8676228 |
| 25 | 59365.30 | 73771.27 | 124266.65 | 9.7735327 | 9.8678873 |
| 26 | 59388.71 | 73816.20 | 124293.33 | 9.7737039 | 9.8681517 |
| 27 | 59412.11 | 73861.15 | 124320.03 | 9.7738749 | 9.8684160 |
| 28 | 59435.50 | 73906.11 | 124346.75 | 9.7740459 | 9.8686804 |
| 29 | 59458.89 | 73951.10 | 124373.49 | 9.7742168 | 9.8689446 |
| 30 | 59482.28 | 73996.11 | 124400.26 | 9.7743876 | 9.8692089 |

53 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 80901.70 | 137638.19 | 170130.16 | 9.9079576 | 10.1387390 |
| 59 | 80884.60 | 137554.03 | 170062.03 | 9.9078658 | 10.1384733 |
| 58 | 80867.49 | 137469.94 | 169994.07 | 9.9077740 | 10.1382077 |
| 57 | 80850.37 | 137385.91 | 169926.12 | 9.9076820 | 10.1374922 |
| 56 | 80833.25 | 137301.95 | 169858.25 | 9.9075901 | 10.1376767 |
| 55 | 80816.12 | 137218.05 | 169790.44 | 9.9074980 | 10.1374113 |
| 54 | 80798.99 | 137134.23 | 169722.71 | 9.9074059 | 10.1371459 |
| 53 | 80781.85 | 137050.47 | 169655.04 | 9.9073138 | 10.1368805 |
| 52 | 80764.70 | 136966.78 | 169587.43 | 9.9072216 | 10.1366152 |
| 51 | 80747.54 | 136883.15 | 169519.90 | 9.9071293 | 10.1363500 |
| 50 | 80730.38 | 136799.59 | 169452.44 | 9.9070370 | 10.1360848 |
| 49 | 80713.21 | 136716.10 | 169385.04 | 9.9069446 | 10.1358197 |
| 48 | 80696.03 | 136632.67 | 169317.71 | 9.9068522 | 10.1355546 |
| 47 | 80678.85 | 136549.31 | 169250.45 | 9.9067597 | 10.1352895 |
| 46 | 80661.66 | 136466.02 | 169183.26 | 9.9066671 | 10.1350245 |
| 45 | 80644.46 | 136382.79 | 169116.13 | 9.9065745 | 10.1347596 |
| 44 | 80627.26 | 136299.63 | 169049.07 | 9.9064819 | 10.1344947 |
| 43 | 80610.05 | 136216.53 | 168982.08 | 9.9063892 | 10.1342298 |
| 42 | 80592.83 | 136133.50 | 168915.16 | 9.9062964 | 10.1339650 |
| 41 | 80575.60 | 136050.54 | 168848.30 | 9.9062036 | 10.1337003 |
| 40 | 80558.37 | 135967.64 | 168781.51 | 9.9061107 | 10.1334356 |
| 39 | 80541.13 | 135884.81 | 168714.79 | 9.9060177 | 10.1331709 |
| 38 | 80523.89 | 135802.04 | 168648.14 | 9.9059247 | 10.1329063 |
| 37 | 80506.64 | 135719.34 | 168581.55 | 9.9058317 | 10.1326417 |
| 36 | 80489.38 | 135636.70 | 168515.03 | 9.9057386 | 10.1323772 |
| 35 | 80472.11 | 135554.13 | 168448.57 | 9.9056454 | 10.1321127 |
| 34 | 80454.84 | 135471.62 | 168382.18 | 9.9055522 | 10.1318483 |
| 33 | 80437.56 | 135389.18 | 168315.86 | 9.9054589 | 10.1315840 |
| 32 | 80420.28 | 135306.80 | 168249.61 | 9.9053656 | 10.1313196 |
| 31 | 80402.99 | 135224.49 | 168183.42 | 9.9052722 | 10.1310554 |
| 30 | 80385.69 | 135142.24 | 168117.30 | 9.9051787 | 10.1307911 |

36. Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 59482.28 | 73996.11 | 124400.26 | 9.7743876 | 9.8692089 |
| 31 | 59505.66 | 74041.14 | 124427.05 | 9.7745583 | 9.8694731 |
| 32 | 59529.03 | 74086.18 | 124453.86 | 9.7747288 | 9.8697372 |
| 33 | 59552.40 | 74131.24 | 124480.69 | 9.7748993 | 9.8700013 |
| 34 | 59575.77 | 74176.33 | 124507.54 | 9.7750697 | 9.8702653 |
| 35 | 59599.13 | 74221.43 | 124534.42 | 9.7752399 | 9.8705293 |
| 36 | 59622.49 | 74266.55 | 124561.31 | 9.7754101 | 9.8707933 |
| 37 | 59645.84 | 74311.70 | 124588.23 | 9.7755801 | 9.8710572 |
| 38 | 59669.18 | 74356.86 | 124615.18 | 9.7757501 | 9.8713210 |
| 39 | 59692.52 | 74402.04 | 124642.14 | 9.7759199 | 9.8715848 |
| 40 | 59715.86 | 74447.24 | 124669.13 | 9.7760897 | 9.8718486 |
| 41 | 59739.19 | 74492.46 | 124696.14 | 9.7762593 | 9.8721123 |
| 42 | 59762.51 | 74537.70 | 124723.17 | 9.7764289 | 9.8723760 |
| 43 | 59785.83 | 74582.96 | 124750.22 | 9.7765983 | 9.8726396 |
| 44 | 59809.15 | 74628.24 | 124777.30 | 9.7767676 | 9.8729032 |
| 45 | 59832.46 | 74673.54 | 124804.40 | 9.7769369 | 9.8731668 |
| 46 | 59855.76 | 74718.86 | 124831.52 | 9.7771060 | 9.8734302 |
| 47 | 59879.06 | 74764.20 | 124858.66 | 9.7772750 | 9.8736937 |
| 48 | 59902.36 | 74809.56 | 124885.83 | 9.7774439 | 9.8739571 |
| 49 | 59925.65 | 74854.94 | 124913.02 | 9.7776128 | 9.8742204 |
| 50 | 59948.93 | 74900.33 | 124940.23 | 9.7777815 | 9.8744838 |
| 51 | 59972.21 | 74945.75 | 124967.46 | 9.7779501 | 9.8747470 |
| 52 | 59995.49 | 74991.19 | 124994.71 | 9.7781186 | 9.8750102 |
| 53 | 60018.76 | 75036.65 | 125021.99 | 9.7782870 | 9.8752734 |
| 54 | 60042.02 | 75082.12 | 125049.29 | 9.7784553 | 9.8755365 |
| 55 | 60065.28 | 75127.62 | 125076.61 | 9.7786235 | 9.8757996 |
| 56 | 60088.53 | 75173.14 | 125103.96 | 9.7787916 | 9.8760627 |
| 57 | 60111.78 | 75218.67 | 125131.33 | 9.7789596 | 9.8763257 |
| 58 | 60135.03 | 75264.23 | 125158.72 | 9.7791275 | 9.8765886 |
| 59 | 60158.27 | 75309.81 | 125186.13 | 9.7792953 | 9.8768515 |
| 60 | 60181.50 | 75355.40 | 125213.57 | 9.7794630 | 9.8771144 |

53 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 80385.69 | 135142.24 | 168117.30 | 9.9051787 | 10.1307911 |
| 29 | 80368.38 | 135060.06 | 168051.24 | 9.9050852 | 10.1305265 |
| 28 | 80351.07 | 134977.94 | 167985.25 | 9.9049916 | 10.1302628 |
| 27 | 80333.75 | 134895.89 | 167919.33 | 9.9048980 | 10.1299987 |
| 26 | 80316.42 | 134813.90 | 167853.47 | 9.9048043 | 10.1297347 |
| 25 | 80299.09 | 134731.97 | 167787.68 | 9.9047106 | 10.1294707 |
| 24 | 80281.75 | 134650.11 | 167721.95 | 9.9046168 | 10.1292067 |
| 23 | 80264.40 | 134568.32 | 167656.29 | 9.9045230 | 10.1289428 |
| 22 | 80247.05 | 134486.58 | 167590.70 | 9.9044291 | 10.1286790 |
| 21 | 80229.69 | 134404.92 | 167525.17 | 9.9043351 | 10.1284152 |
| 20 | 80212.32 | 134323.31 | 167459.70 | 9.9042411 | 10.1281514 |
| 19 | 80194.94 | 134241.77 | 167394.30 | 9.9041470 | 10.1278877 |
| 18 | 80177.56 | 134160.29 | 167328.97 | 9.9040529 | 10.1276240 |
| 17 | 80160.17 | 134078.88 | 167263.70 | 9.9039587 | 10.1273604 |
| 16 | 80142.78 | 133997.53 | 167198.50 | 9.9038644 | 10.1270968 |
| 15 | 80125.38 | 133916.24 | 167133.36 | 9.9037701 | 10.1268332 |
| 14 | 80107.97 | 133835.02 | 167068.28 | 9.9036757 | 10.1265698 |
| 13 | 80090.56 | 133753.86 | 167003.28 | 9.9035813 | 10.1263063 |
| 12 | 80073.14 | 133672.76 | 166938.33 | 9.9034868 | 10.1260429 |
| 11 | 80055.71 | 133591.72 | 166873.45 | 9.9033923 | 10.1257796 |
| 10 | 80038.27 | 133510.75 | 166808.64 | 9.9032977 | 10.1255163 |
| 9 | 80020.83 | 133429.84 | 166743.89 | 9.9032031 | 10.1252530 |
| 8 | 80003.38 | 133349.00 | 166679.20 | 9.9031084 | 10.1249897 |
| 7 | 79985.93 | 133268.22 | 166614.58 | 9.9030136 | 10.1247266 |
| 6 | 79968.47 | 133187.49 | 166550.02 | 9.9029188 | 10.1244633 |
| 5 | 79951.00 | 133106.84 | 166485.52 | 9.9028239 | 10.1242000 |
| 4 | 79933.52 | 133026.24 | 166421.09 | 9.9027289 | 10.1239367 |
| 3 | 79916.04 | 132945.71 | 166356.73 | 9.9026339 | 10.1236734 |
| 2 | 79898.55 | 132865.24 | 166292.43 | 9.9025389 | 10.1234101 |
| 1 | 79881.05 | 132784.83 | 166228.19 | 9.9024438 | 10.1231468 |
| 0 | 79863.55 | 132704.48 | 166164.01 | 9.9023486 | 10.1228835 |

37 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 60181.50 | 75355.40 | 125213.57 | 9.7794630 | 9.8771144 |
| 1 | 60204.73 | 75401.02 | 125241.02 | 9.7796306 | 9.8773772 |
| 2 | 60227.95 | 75446.66 | 125268.50 | 9.7797981 | 9.8776400 |
| 3 | 60251.17 | 75492.32 | 125296.01 | 9.7799655 | 9.8779027 |
| 4 | 60274.39 | 75537.99 | 125323.53 | 9.7801328 | 9.8781654 |
| 5 | 60297.60 | 75583.69 | 125351.08 | 9.7803000 | 9.8784281 |
| 6 | 60320.80 | 75629.41 | 125378.65 | 9.7804671 | 9.8786907 |
| 7 | 60344.00 | 75675.14 | 125406.25 | 9.7806341 | 9.8789533 |
| 8 | 60367.19 | 75720.90 | 125433.87 | 9.7808010 | 9.8792158 |
| 9 | 60390.38 | 75766.68 | 125461.51 | 9.7809677 | 9.8794782 |
| 10 | 60413.56 | 75812.48 | 125489.17 | 9.7811344 | 9.8797407 |
| 11 | 60436.74 | 75858.29 | 125516.85 | 9.7813010 | 9.8800031 |
| 12 | 60459.91 | 75904.13 | 125544.56 | 9.7814675 | 9.8802654 |
| 13 | 60483.08 | 75949.99 | 125572.29 | 9.7816339 | 9.8805277 |
| 14 | 60506.24 | 75995.87 | 125600.05 | 9.7818002 | 9.8807900 |
| 15 | 60529.40 | 76041.77 | 125627.82 | 9.7819664 | 9.8810522 |
| 16 | 60552.55 | 76087.69 | 125655.62 | 9.7821324 | 9.8813144 |
| 17 | 60575.70 | 76133.63 | 125683.45 | 9.7822984 | 9.8815765 |
| 18 | 60598.84 | 76179.59 | 125711.29 | 9.7824643 | 9.8818386 |
| 19 | 60621.98 | 76225.57 | 125739.16 | 9.7826301 | 9.8821007 |
| 20 | 60645.11 | 76271.57 | 125767.05 | 9.7827958 | 9.8823627 |
| 21 | 60668.23 | 76317.59 | 125794.97 | 9.7829614 | 9.8826246 |
| 22 | 60691.35 | 76363.63 | 125822.91 | 9.7831268 | 9.8828866 |
| 23 | 60714.47 | 76409.69 | 125850.87 | 9.7832922 | 9.8831484 |
| 24 | 60737.58 | 76455.77 | 125878.85 | 9.7834575 | 9.8834103 |
| 25 | 60760.69 | 76501.88 | 125906.86 | 9.7836227 | 9.8836721 |
| 26 | 60783.79 | 76548.00 | 125934.89 | 9.7837878 | 9.8839338 |
| 27 | 60806.89 | 76594.14 | 125962.94 | 9.7839528 | 9.8841956 |
| 28 | 60829.98 | 76640.31 | 125991.02 | 9.7841177 | 9.8844572 |
| 29 | 60853.06 | 76686.49 | 126019.12 | 9.7842824 | 9.8847189 |
| 30 | 60876.14 | 76732.70 | 126047.24 | 9.7844471 | 9.8849805 |

52 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 79863.55 | 132704.48 | 166164.01 | 9.9023486 | 10.1228850 |
| 59 | 79846.04 | 132624.20 | 166099.90 | 9.9022534 | 10.1226225 |
| 58 | 79828.52 | 132543.97 | 166035.85 | 9.9021581 | 10.1223600 |
| 57 | 79811.00 | 132463.81 | 165971.87 | 9.9020628 | 10.1220975 |
| 56 | 79793.47 | 132383.71 | 165907.95 | 9.9019674 | 10.1218346 |
| 55 | 79775.93 | 132303.68 | 165844.09 | 9.9018719 | 10.1215716 |
| 54 | 79758.39 | 132223.70 | 165780.30 | 9.9017764 | 10.1213092 |
| 53 | 79740.84 | 132143.79 | 165716.57 | 9.9016808 | 10.1210467 |
| 52 | 79723.28 | 132063.93 | 165652.90 | 9.9015852 | 10.1207842 |
| 51 | 79705.72 | 131984.14 | 165589.29 | 9.9014895 | 10.1205218 |
| 50 | 79688.15 | 131904.41 | 165525.75 | 9.9013938 | 10.1202595 |
| 49 | 79670.57 | 131824.74 | 165462.27 | 9.9012980 | 10.1199969 |
| 48 | 79652.99 | 131745.13 | 165398.85 | 9.9012021 | 10.1197346 |
| 47 | 79635.40 | 131665.59 | 165335.50 | 9.9011062 | 10.1194722 |
| 46 | 79617.80 | 131586.10 | 165272.21 | 9.9010102 | 10.1192100 |
| 45 | 79600.20 | 131506.68 | 165208.98 | 9.9009142 | 10.1189478 |
| 44 | 79582.59 | 131427.31 | 165145.81 | 9.9008181 | 10.1186856 |
| 43 | 79564.97 | 131348.01 | 165082.70 | 9.9007219 | 10.1184234 |
| 42 | 79547.35 | 131268.76 | 165019.66 | 9.9006257 | 10.1181612 |
| 41 | 79529.72 | 131189.58 | 164956.68 | 9.9005294 | 10.1178990 |
| 40 | 79512.08 | 131110.46 | 164893.76 | 9.9004331 | 10.1176370 |
| 39 | 79494.43 | 131031.40 | 164830.90 | 9.9003367 | 10.1173750 |
| 38 | 79476.78 | 130952.39 | 164768.11 | 9.9002403 | 10.1171130 |
| 37 | 79459.12 | 130873.45 | 164705.37 | 9.9001438 | 10.1168510 |
| 36 | 79441.46 | 130794.57 | 164642.70 | 9.9000472 | 10.1165890 |
| 35 | 79423.79 | 130715.75 | 164580.09 | 9.8999506 | 10.1163270 |
| 34 | 79406.11 | 130636.99 | 164517.54 | 9.8998539 | 10.1160650 |
| 33 | 79388.43 | 130558.28 | 164455.06 | 9.8997572 | 10.1158030 |
| 32 | 79370.74 | 130479.64 | 164392.63 | 9.8996604 | 10.1155410 |
| 31 | 79353.04 | 130401.06 | 164330.27 | 9.8995636 | 10.1152810 |
| 30 | 79335.33 | 130322.54 | 164267.96 | 9.8994667 | 10.1150210 |

37 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 60876.14 | 76732.70 | 126047.24 | 9.7844471 | 9.8849805 |
| 31 | 60899.22 | 76778.93 | 126075.39 | 9.7846117 | 9.8852420 |
| 32 | 60922.29 | 76825.17 | 126103.56 | 9.7847762 | 9.8855035 |
| 33 | 60945.35 | 76871.44 | 126131.75 | 9.7849406 | 9.8857650 |
| 34 | 60968.41 | 76917.73 | 126159.97 | 9.7851049 | 9.8860264 |
| 35 | 60991.47 | 76964.04 | 126188.20 | 9.7852691 | 9.8862878 |
| 36 | 61014.52 | 77010.37 | 126216.46 | 9.7854332 | 9.8865492 |
| 37 | 61037.56 | 77056.72 | 126244.75 | 9.7855972 | 9.8868105 |
| 38 | 61060.60 | 77103.09 | 126273.06 | 9.7857611 | 9.8870718 |
| 39 | 61083.63 | 77149.48 | 126301.40 | 9.7859249 | 9.8873330 |
| 40 | 61106.66 | 77195.89 | 126329.75 | 9.7860886 | 9.8875942 |
| 41 | 61129.68 | 77242.33 | 126358.13 | 9.7862522 | 9.8878554 |
| 42 | 61152.70 | 77288.79 | 126386.53 | 9.7864157 | 9.8881165 |
| 43 | 61175.72 | 77335.26 | 126414.96 | 9.7865791 | 9.8883775 |
| 44 | 61198.73 | 77381.75 | 126443.41 | 9.7867424 | 9.8886386 |
| 45 | 61221.73 | 77428.27 | 126471.88 | 9.7869056 | 9.8888996 |
| 46 | 61244.73 | 77474.81 | 126500.38 | 9.7870687 | 9.8891605 |
| 47 | 61267.72 | 77521.37 | 126528.90 | 9.7872317 | 9.8894214 |
| 48 | 61290.71 | 77567.95 | 126557.45 | 9.7873946 | 9.8896823 |
| 49 | 61313.69 | 77614.55 | 126586.01 | 9.7875574 | 9.8899432 |
| 50 | 61336.66 | 77661.17 | 126614.60 | 9.7877202 | 9.8902040 |
| 51 | 61359.63 | 77707.82 | 126643.22 | 9.7878828 | 9.8904647 |
| 52 | 61382.60 | 77754.48 | 126671.86 | 9.7880453 | 9.8907254 |
| 53 | 61405.56 | 77801.17 | 126700.52 | 9.7882077 | 9.8909861 |
| 54 | 61428.52 | 77847.88 | 126729.21 | 9.7883701 | 9.8912468 |
| 55 | 61451.47 | 77894.60 | 126757.92 | 9.7885323 | 9.8915074 |
| 56 | 61474.42 | 77941.35 | 126786.65 | 9.7886944 | 9.8917679 |
| 57 | 61497.36 | 77988.12 | 126815.41 | 9.7888565 | 9.8920285 |
| 58 | 61520.29 | 78034.92 | 126844.19 | 9.7890184 | 9.8922890 |
| 59 | 61543.22 | 78081.73 | 126872.99 | 9.7891802 | 9.8925494 |
| 60 | 61566.15 | 78128.56 | 126901.82 | 9.7893420 | 9.8928098 |

52 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 79335.33 | 130322.54 | 164267.96 | 9.8994667 | 10.1150195 |
| 29 | 79317.62 | 130244.07 | 164205.72 | 9.8993697 | 10.1147580 |
| 28 | 79299.90 | 130165.67 | 164143.54 | 9.8992727 | 10.1144965 |
| 27 | 79282.18 | 130087.32 | 164081.42 | 9.8991756 | 10.1142350 |
| 26 | 79264.45 | 130009.04 | 164019.36 | 9.8990784 | 10.1139736 |
| 25 | 79246.71 | 129930.81 | 163957.36 | 9.8989812 | 10.1137122 |
| 24 | 79228.96 | 129852.65 | 163895.42 | 9.8988840 | 10.1134508 |
| 23 | 79211.21 | 129774.54 | 163833.55 | 9.8987867 | 10.1131895 |
| 22 | 79193.45 | 129696.49 | 163771.73 | 9.8986893 | 10.1129282 |
| 21 | 79175.69 | 129618.50 | 163709.97 | 9.8985919 | 10.1126670 |
| 20 | 79157.92 | 129540.57 | 163648.28 | 9.8984944 | 10.1124058 |
| 19 | 79140.14 | 129462.69 | 163586.64 | 9.8983968 | 10.1121446 |
| 18 | 79122.35 | 129384.88 | 163525.07 | 9.8982992 | 10.1118835 |
| 17 | 79104.56 | 129307.12 | 163463.55 | 9.8982015 | 10.1116225 |
| 16 | 79086.76 | 129229.43 | 163402.10 | 9.8981038 | 10.1113614 |
| 15 | 79068.96 | 129151.79 | 163340.70 | 9.8980060 | 10.1111004 |
| 14 | 79051.15 | 129074.21 | 163279.37 | 9.8979082 | 10.1108395 |
| 13 | 79033.33 | 128996.69 | 163218.09 | 9.8978103 | 10.1105786 |
| 12 | 79015.50 | 128919.22 | 163156.88 | 9.8977123 | 10.1103177 |
| 11 | 78997.67 | 128841.82 | 163095.72 | 9.8976143 | 10.1100568 |
| 10 | 78979.83 | 128764.47 | 163034.62 | 9.8975162 | 10.1097960 |
| 9 | 78961.98 | 128687.18 | 162973.59 | 9.8974181 | 10.1095353 |
| 8 | 78944.13 | 128609.95 | 162912.61 | 9.8973199 | 10.1092746 |
| 7 | 78926.27 | 128532.77 | 162851.69 | 9.8972216 | 10.1090139 |
| 6 | 78908.41 | 128455.66 | 162790.83 | 9.8971233 | 10.1087532 |
| 5 | 78890.54 | 128378.60 | 162730.03 | 9.8970249 | 10.1084926 |
| 4 | 78872.66 | 128301.60 | 162669.29 | 9.8969265 | 10.1082321 |
| 3 | 78854.77 | 128224.66 | 162608.61 | 9.8968280 | 10.1079715 |
| 2 | 78836.88 | 128147.76 | 162547.99 | 9.8967294 | 10.1077110 |
| 1 | 78818.98 | 128070.93 | 162487.43 | 9.8966308 | 10.1074506 |
| 0 | 78801.07 | 127994.16 | 162426.92 | 9.8965321 | 10.1271902 |

38 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 61566.15 | 78128.56 | 126901.82 | 9.7893420 | 9.8928098 |
| 1 | 61589.07 | 78175.42 | 126930.67 | 9.7895036 | 9.8930702 |
| 2 | 61611.98 | 78222.29 | 126959.55 | 9.7896652 | 9.8933306 |
| 3 | 61634.89 | 78269.19 | 126988.45 | 9.7898266 | 9.8935909 |
| 4 | 61657.79 | 78316.11 | 127017.37 | 9.7899880 | 9.8938511 |
| 5 | 61680.69 | 78363.05 | 127046.32 | 9.7901493 | 9.8941114 |
| 6 | 61703.59 | 78410.02 | 127075.29 | 9.7903104 | 9.8943715 |
| 7 | 61726.48 | 78457.00 | 127104.29 | 9.7904715 | 9.8946317 |
| 8 | 61749.36 | 78504.00 | 127133.31 | 9.7906325 | 9.8948918 |
| 9 | 61772.24 | 78551.03 | 127162.35 | 9.7907933 | 9.8951519 |
| 10 | 61795.11 | 78598.08 | 127191.42 | 9.7909541 | 9.8954119 |
| 11 | 61817.98 | 78645.15 | 127220.51 | 9.7911148 | 9.8956719 |
| 12 | 61840.84 | 78692.24 | 127249.63 | 9.7912754 | 9.8959319 |
| 13 | 61863.70 | 78739.35 | 127278.77 | 9.7914359 | 9.8961918 |
| 14 | 61886.55 | 78786.49 | 127307.94 | 9.7915963 | 9.8964517 |
| 15 | 61909.40 | 78833.64 | 127337.12 | 9.7917566 | 9.8967116 |
| 16 | 61932.24 | 78880.82 | 127366.34 | 9.7919168 | 9.8969714 |
| 17 | 61955.07 | 78928.02 | 127395.57 | 9.7920769 | 9.8972312 |
| 18 | 61977.90 | 78975.24 | 127424.84 | 9.7922369 | 9.8974910 |
| 19 | 62000.73 | 79022.48 | 127454.12 | 9.7923968 | 9.8977507 |
| 20 | 62023.55 | 79069.75 | 127483.43 | 9.7925566 | 9.8980104 |
| 21 | 62046.36 | 79117.03 | 127512.76 | 9.7927163 | 9.8982700 |
| 22 | 62069.17 | 79164.34 | 127542.12 | 9.7928760 | 9.8985296 |
| 23 | 62091.98 | 79211.67 | 127571.50 | 9.7930355 | 9.8987892 |
| 24 | 62114.78 | 79259.02 | 127600.91 | 9.7931949 | 9.8990487 |
| 25 | 62137.57 | 79306.40 | 127630.34 | 9.7933543 | 9.8993082 |
| 26 | 62160.36 | 79353.79 | 127659.80 | 9.7935135 | 9.8995677 |
| 27 | 62183.14 | 79401.21 | 127689.28 | 9.7936727 | 9.8998271 |
| 28 | 62205.92 | 79448.65 | 127718.78 | 9.7938317 | 9.9000865 |
| 29 | 62228.69 | 79496.11 | 127748.31 | 9.7939907 | 9.9003459 |
| 30 | 62251.46 | 79543.59 | 127777.87 | 9.7941496 | 9.9006052 |

51 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 78801.07 | 127994.16 | 162426.92 | 9.8965321 | 10.1071902 |
| 59 | 78783.16 | 127917.45 | 162366.48 | 9.8964334 | 10.1069298 |
| 58 | 78765.24 | 127840.79 | 162306.09 | 9.8963346 | 10.1066694 |
| 57 | 78747.32 | 127764.19 | 162245.76 | 9.8962358 | 10.1064091 |
| 56 | 78729.39 | 127687.64 | 162185.49 | 9.8961369 | 10.1061485 |
| 55 | 78711.45 | 127611.16 | 162125.28 | 9.8960379 | 10.1058886 |
| 54 | 78693.50 | 127534.73 | 162065.13 | 9.8959389 | 10.1056285 |
| 53 | 78675.55 | 127458.36 | 162005.04 | 9.8958398 | 10.1053683 |
| 52 | 78657.59 | 127382.04 | 161945.00 | 9.8957406 | 10.1051082 |
| 51 | 78639.62 | 127305.78 | 161885.02 | 9.8956414 | 10.1048481 |
| 50 | 78621.65 | 127229.57 | 161825.10 | 9.8955422 | 10.1045881 |
| 49 | 78603.67 | 127153.42 | 161765.24 | 9.8954429 | 10.1043281 |
| 48 | 78585.69 | 127077.33 | 161705.44 | 9.8953435 | 10.1040681 |
| 47 | 78567.70 | 127001.30 | 161645.69 | 9.8952440 | 10.1038082 |
| 46 | 78549.70 | 126925.32 | 161586.00 | 9.8951445 | 10.1035483 |
| 45 | 78531.69 | 126849.39 | 161526.37 | 9.8950450 | 10.1032884 |
| 44 | 78513.68 | 126773.53 | 161466.80 | 9.8949453 | 10.1030286 |
| 43 | 78495.66 | 126697.72 | 161407.28 | 9.8948457 | 10.1027688 |
| 42 | 78477.64 | 126621.96 | 161347.83 | 9.8947459 | 10.1025090 |
| 41 | 78459.61 | 126546.26 | 161288.43 | 9.8946461 | 10.1022492 |
| 40 | 78441.57 | 126470.62 | 161229.08 | 9.8945463 | 10.1019896 |
| 39 | 78423.52 | 126395.03 | 161169.80 | 9.8944463 | 10.1017300 |
| 38 | 78405.47 | 126319.50 | 161110.57 | 9.8943464 | 10.1014704 |
| 37 | 78387.41 | 126244.02 | 161051.40 | 9.8942463 | 10.1012108 |
| 36 | 78369.35 | 126168.60 | 160992.28 | 9.8941462 | 10.1009511 |
| 35 | 78351.28 | 126093.23 | 160933.23 | 9.8940461 | 10.1006911 |
| 34 | 78333.20 | 126017.92 | 160874.23 | 9.8939458 | 10.1004321 |
| 33 | 78315.11 | 125942.67 | 160815.28 | 9.8938456 | 10.1001721 |
| 32 | 78297.02 | 125867.47 | 160756.40 | 9.8937452 | 10.0999133 |
| 31 | 78278.92 | 125792.32 | 160697.57 | 9.8936448 | 10.0996544 |
| 30 | 78260.82 | 125717.23 | 160638.79 | 9.8935444 | 10.0993954 |

38 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 62251.46 | 79543.59 | 127777.87 | 9.7941496 | 9.9006052 |
| 31 | 62274.22 | 79591.10 | 127807.45 | 9.7943083 | 9.9008645 |
| 32 | 62296.98 | 79638.62 | 127837.05 | 9.7944670 | 9.9011237 |
| 33 | 62319.73 | 79686.17 | 127866.67 | 9.7946256 | 9.9013830 |
| 34 | 62342.48 | 79733.74 | 127896.32 | 9.7947841 | 9.9016422 |
| 35 | 62365.22 | 79781.34 | 127926.00 | 9.7949425 | 9.9019013 |
| 36 | 62387.96 | 79828.95 | 127955.70 | 9.7951008 | 9.9021604 |
| 37 | 62410.69 | 79876.59 | 127985.43 | 9.7952590 | 9.9024195 |
| 38 | 62433.42 | 79924.25 | 128015.18 | 9.7954173 | 9.9026786 |
| 39 | 62456.14 | 79971.93 | 128044.95 | 9.7955755 | 9.9029376 |
| 40 | 62478.85 | 80019.63 | 128074.75 | 9.7957330 | 9.9031966 |
| 41 | 62501.56 | 80067.36 | 128104.57 | 9.7958909 | 9.9034555 |
| 42 | 62524.26 | 80115.11 | 128134.42 | 9.7960486 | 9.9037144 |
| 43 | 62546.96 | 80162.88 | 128164.30 | 9.7962062 | 9.9039733 |
| 44 | 62569.66 | 80210.67 | 128194.20 | 9.7963638 | 9.9042321 |
| 45 | 62592.35 | 80258.48 | 128224.12 | 9.7965212 | 9.9044910 |
| 46 | 62615.03 | 80306.32 | 128254.07 | 9.7966786 | 9.9047497 |
| 47 | 62637.71 | 80354.18 | 128284.04 | 9.7968359 | 9.9050085 |
| 48 | 62660.38 | 80402.06 | 128314.04 | 9.7969930 | 9.9052672 |
| 49 | 62683.05 | 80449.97 | 128344.06 | 9.7971501 | 9.9055259 |
| 50 | 62705.71 | 80497.90 | 128374.11 | 9.7973071 | 9.9057845 |
| 51 | 62728.37 | 80545.85 | 128404.18 | 9.7974640 | 9.9060431 |
| 52 | 62751.02 | 80593.82 | 128434.28 | 9.7976208 | 9.9063017 |
| 53 | 62773.66 | 80641.81 | 128464.40 | 9.7977775 | 9.9065603 |
| 54 | 62796.30 | 80689.83 | 128494.55 | 9.7979341 | 9.9068188 |
| 55 | 62818.94 | 80737.87 | 128524.72 | 9.7980906 | 9.9070773 |
| 56 | 62841.57 | 80785.93 | 128554.92 | 9.7982470 | 9.9073357 |
| 57 | 62864.20 | 80834.01 | 128585.14 | 9.7984034 | 9.9075941 |
| 58 | 62886.82 | 80882.12 | 128615.39 | 9.7985596 | 9.9078525 |
| 59 | 62909.43 | 80930.25 | 128645.66 | 9.7987158 | 9.9081109 |
| 60 | 62932.04 | 80978.40 | 128675.96 | 9.7988718 | 9.9083692 |

51 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. |
|--------|----------|-----------|-----------|-----------|-------|
| 30 | 78260.82 | 125717.23 | 160638.79 | 9.8935444 | 10.09 |
| 29 | 78242.71 | 125642.19 | 160580.08 | 9.8934439 | 10.09 |
| 28 | 78224.59 | 125567.21 | 160521.42 | 9.8933433 | 10.09 |
| 27 | 78206.46 | 125492.29 | 160462.81 | 9.8932426 | 10.09 |
| 26 | 78188.33 | 125417.42 | 160404.26 | 9.8931419 | 10.09 |
| 25 | 78170.19 | 125342.60 | 160345.77 | 9.8930412 | 10.09 |
| 24 | 78152.05 | 125267.84 | 160287.34 | 9.8929404 | 10.09 |
| 23 | 78133.90 | 125193.13 | 160228.96 | 9.8928395 | 10.09 |
| 22 | 78115.74 | 125118.48 | 160170.64 | 9.8927385 | 10.09 |
| 21 | 78097.57 | 125043.88 | 160112.37 | 9.8926375 | 10.09 |
| 20 | 78079.40 | 124969.33 | 160054.16 | 9.8925365 | 10.09 |
| 19 | 78061.22 | 124894.84 | 159996.00 | 9.8924354 | 10.09 |
| 18 | 78043.04 | 124820.40 | 159937.90 | 9.8923342 | 10.09 |
| 17 | 78024.85 | 124746.02 | 159879.86 | 9.8922329 | 10.09 |
| 16 | 78006.65 | 124671.69 | 159821.87 | 9.8921316 | 10.09 |
| 15 | 77988.45 | 124597.42 | 159763.94 | 9.8920303 | 10.09 |
| 14 | 77970.24 | 124523.20 | 159706.06 | 9.8919289 | 10.09 |
| 13 | 77952.02 | 124449.03 | 159648.24 | 9.8918274 | 10.09 |
| 12 | 77933.80 | 124374.92 | 159590.47 | 9.8917258 | 10.09 |
| 11 | 77915.57 | 124300.86 | 159532.76 | 9.8916242 | 10.09 |
| 10 | 77897.33 | 124226.85 | 159475.11 | 9.8915226 | 10.09 |
| 9 | 77879.08 | 124152.90 | 159417.51 | 9.8914208 | 10.09 |
| 8 | 77860.83 | 124079.00 | 159359.96 | 9.8913191 | 10.09 |
| 7 | 77842.57 | 124005.15 | 159302.47 | 9.8912172 | 10.09 |
| 6 | 77824.31 | 123931.36 | 159245.04 | 9.8911153 | 10.09 |
| 5 | 77806.04 | 123857.62 | 159187.66 | 9.8910133 | 10.09 |
| 4 | 77787.77 | 123783.93 | 159130.33 | 9.8909113 | 10.09 |
| 3 | 77769.49 | 123710.30 | 159073.06 | 9.8908092 | 10.09 |
| 2 | 77751.20 | 123636.72 | 159015.84 | 9.8907071 | 10.09 |
| 1 | 77732.90 | 123563.19 | 158958.68 | 9.8906049 | 10.09 |
| 0 | 77714.60 | 123489.72 | 158901.57 | 9.8905026 | 10.09 |

39 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 62932.04 | 80978.40 | 128675.96 | 9.7988718 | 9.9083692 |
| 1 | 62954.64 | 81026.58 | 128706.28 | 9.7990278 | 9.9086275 |
| 2 | 62977.24 | 81074.78 | 128736.63 | 9.7991836 | 9.9088858 |
| 3 | 62999.83 | 81123.00 | 128767.00 | 9.7993394 | 9.9091440 |
| 4 | 63022.42 | 81171.24 | 128797.40 | 9.7994951 | 9.9094022 |
| 5 | 63045.00 | 81219.51 | 128827.82 | 9.7996507 | 9.9096603 |
| 6 | 63067.58 | 81267.80 | 128858.27 | 9.7998062 | 9.9099185 |
| 7 | 63090.15 | 81316.11 | 128888.75 | 9.7999616 | 9.9101766 |
| 8 | 63112.72 | 81364.44 | 128919.25 | 9.8001169 | 9.9104347 |
| 9 | 63135.28 | 81412.80 | 128949.77 | 9.8002721 | 9.9106927 |
| 10 | 63157.84 | 81461.18 | 128980.32 | 9.8004272 | 9.9109507 |
| 11 | 63180.39 | 81509.58 | 129010.90 | 9.8005823 | 9.9112087 |
| 12 | 63202.93 | 81558.01 | 129041.50 | 9.8007372 | 9.9114666 |
| 13 | 63225.47 | 81606.46 | 129072.13 | 9.8008921 | 9.9117245 |
| 14 | 63248.00 | 81654.93 | 129102.78 | 9.8010468 | 9.9119824 |
| 15 | 63270.53 | 81703.43 | 129133.46 | 9.8012015 | 9.9122403 |
| 16 | 63293.05 | 81751.95 | 129164.16 | 9.8013561 | 9.9124981 |
| 17 | 63315.57 | 81800.49 | 129194.89 | 9.8015106 | 9.9127559 |
| 18 | 63338.08 | 81849.05 | 129225.64 | 9.8016649 | 9.9130137 |
| 19 | 63360.59 | 81897.64 | 129256.42 | 9.8018192 | 9.9132714 |
| 20 | 63383.09 | 81946.25 | 129287.23 | 9.8019735 | 9.9135291 |
| 21 | 63405.59 | 81994.88 | 129318.06 | 9.8021276 | 9.9137868 |
| 22 | 63428.08 | 82043.54 | 129348.92 | 9.8022816 | 9.9140444 |
| 23 | 63450.57 | 82092.22 | 129379.80 | 9.8024355 | 9.9143020 |
| 24 | 63473.05 | 82140.93 | 129410.71 | 9.8025894 | 9.9145596 |
| 25 | 63495.53 | 82189.65 | 129441.64 | 9.8027431 | 9.9148171 |
| 26 | 63518.00 | 82238.40 | 129472.60 | 9.8028968 | 9.9150747 |
| 27 | 63540.46 | 82287.18 | 129503.59 | 9.8030504 | 9.9153322 |
| 28 | 63562.92 | 82335.97 | 129534.60 | 9.8032038 | 9.9155896 |
| 29 | 63585.37 | 82384.79 | 129565.64 | 9.8033572 | 9.9158471 |
| 30 | 63607.82 | 82433.64 | 129596.70 | 9.8035105 | 9.9161045 |

50 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 77714.60 | 123489.72 | 158901.57 | 9.8905026 | 10.091630 |
| 59 | 77696.29 | 123416.29 | 158844.52 | 9.8904003 | 10.091372 |
| 58 | 77677.97 | 123342.92 | 158787.52 | 9.8902979 | 10.091114 |
| 57 | 77659.65 | 123269.61 | 158730.58 | 9.8901954 | 10.090856 |
| 56 | 77641.32 | 123196.34 | 158673.69 | 9.8900929 | 10.090597 |
| 55 | 77622.98 | 123123.13 | 158616.85 | 9.8899903 | 10.090339 |
| 54 | 77604.64 | 123049.97 | 158560.07 | 9.8898877 | 10.090081 |
| 53 | 77586.29 | 122976.87 | 158503.34 | 9.8897850 | 10.089823 |
| 52 | 77567.94 | 122903.81 | 158446.67 | 9.8896822 | 10.089565 |
| 51 | 77549.58 | 122830.81 | 158390.05 | 9.8895794 | 10.089307 |
| 50 | 77531.21 | 122757.86 | 158333.48 | 9.8894765 | 10.089049 |
| 49 | 77512.83 | 122684.96 | 158276.97 | 9.8893736 | 10.088791 |
| 48 | 77494.45 | 122612.11 | 158220.51 | 9.8892706 | 10.088533 |
| 47 | 77476.06 | 122539.32 | 158164.11 | 9.8891675 | 10.088275 |
| 46 | 77457.67 | 122466.58 | 158107.76 | 9.8890644 | 10.088017 |
| 45 | 77439.27 | 122393.89 | 158051.46 | 9.8889612 | 10.087759 |
| 44 | 77420.86 | 122321.25 | 157995.21 | 9.8888580 | 10.087501 |
| 43 | 77402.44 | 122248.66 | 157939.02 | 9.8887547 | 10.087244 |
| 42 | 77384.02 | 122176.13 | 157882.89 | 9.8886513 | 10.086986 |
| 41 | 77365.59 | 122103.64 | 157826.80 | 9.8885479 | 10.086728 |
| 40 | 77347.16 | 122031.21 | 157770.77 | 9.8884444 | 10.086470 |
| 39 | 77328.72 | 121958.83 | 157714.79 | 9.8883408 | 10.086213 |
| 38 | 77310.27 | 121886.50 | 157658.87 | 9.8882372 | 10.085955 |
| 37 | 77291.82 | 121814.22 | 157603.00 | 9.8881335 | 10.085698 |
| 36 | 77273.36 | 121741.99 | 157547.18 | 9.8880298 | 10.085440 |
| 35 | 77254.89 | 121669.82 | 157491.41 | 9.8879260 | 10.085182 |
| 34 | 77236.42 | 121597.69 | 157435.70 | 9.8878221 | 10.084925 |
| 33 | 77217.94 | 121525.62 | 157380.04 | 9.8877182 | 10.084667 |
| 32 | 77199.45 | 121453.59 | 157324.43 | 9.8876142 | 10.084410 |
| 31 | 77180.96 | 121381.62 | 157268.87 | 9.8875102 | 10.084152 |
| 30 | 77162.46 | 121309.70 | 157213.37 | 9.8874061 | 10.083895 |

39 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 63607.82 | 82433.64 | 129596.70 | 9.8035105 | 9.9161045 |
| 31 | 63630.26 | 82482.51 | 129627.79 | 9.8036637 | 9.9163618 |
| 32 | 63652.70 | 82531.40 | 129658.90 | 9.8038168 | 9.9166192 |
| 33 | 63675.13 | 82580.31 | 129690.04 | 9.8039699 | 9.9168765 |
| 34 | 63697.56 | 82629.25 | 129721.21 | 9.8041228 | 9.9171338 |
| 35 | 63719.98 | 82678.21 | 129752.40 | 9.8042757 | 9.9173911 |
| 36 | 63742.40 | 82727.19 | 129783.62 | 9.8044284 | 9.9176483 |
| 37 | 63764.81 | 82776.20 | 129814.87 | 9.8045811 | 9.9179055 |
| 38 | 63787.21 | 82825.23 | 129846.14 | 9.8047336 | 9.9181627 |
| 39 | 63809.61 | 82874.29 | 129877.44 | 9.8048861 | 9.9184198 |
| 40 | 63832.01 | 82923.37 | 129908.76 | 9.8050385 | 9.9186769 |
| 41 | 63854.40 | 82972.47 | 129940.11 | 9.8051908 | 9.9189340 |
| 42 | 63876.78 | 83021.60 | 129971.48 | 9.8053430 | 9.9191911 |
| 43 | 63899.16 | 83070.75 | 130002.88 | 9.8054951 | 9.9194481 |
| 44 | 63921.53 | 83119.92 | 130034.31 | 9.8056472 | 9.9197051 |
| 45 | 63943.90 | 83169.12 | 130065.76 | 9.8057991 | 9.9199621 |
| 46 | 63966.26 | 83218.34 | 130097.24 | 9.8059510 | 9.9202191 |
| 47 | 63988.62 | 83267.59 | 130128.75 | 9.8061027 | 9.9204760 |
| 48 | 64010.97 | 83316.86 | 130160.28 | 9.8062544 | 9.9207329 |
| 49 | 64033.32 | 83366.15 | 130191.84 | 9.8064060 | 9.9209898 |
| 50 | 64055.66 | 83415.47 | 130223.43 | 9.8065575 | 9.9212466 |
| 51 | 64077.99 | 83464.81 | 130255.04 | 9.8067089 | 9.9215034 |
| 52 | 64100.32 | 83514.18 | 130286.68 | 9.8068602 | 9.9217602 |
| 53 | 64122.64 | 83563.57 | 130318.34 | 9.8070114 | 9.9220170 |
| 54 | 64144.96 | 83612.98 | 130350.03 | 9.8071626 | 9.9222737 |
| 55 | 64167.27 | 83662.42 | 130381.75 | 9.8073136 | 9.9225304 |
| 56 | 64189.58 | 83711.88 | 130413.49 | 9.8074646 | 9.9227871 |
| 57 | 64211.88 | 83761.36 | 130445.26 | 9.8076154 | 9.9230437 |
| 58 | 64234.18 | 83810.87 | 130477.06 | 9.8077662 | 9.9233004 |
| 59 | 64256.47 | 83860.40 | 130508.88 | 9.8079169 | 9.9235570 |
| 60 | 64278.76 | 83909.9 | 130540.73 | 9.8080675 | 9.9238135 |

50 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 77162.46 | 121309.70 | 157213.37 | 9.8874061 | 10.0838955 |
| 29 | 77143.95 | 121237.83 | 157157.92 | 9.8873019 | 10.0836382 |
| 28 | 77125.44 | 121166.01 | 157102.52 | 9.8871977 | 10.0833808 |
| 27 | 77106.92 | 121094.24 | 157047.17 | 9.8870934 | 10.0831235 |
| 26 | 77088.39 | 121022.52 | 156991.88 | 9.8869890 | 10.0828662 |
| 25 | 77069.86 | 120950.85 | 156936.64 | 9.8868846 | 10.0826089 |
| 24 | 77051.32 | 120879.23 | 156881.45 | 9.8867801 | 10.0823517 |
| 23 | 77032.78 | 120807.67 | 156826.31 | 9.8866756 | 10.0820945 |
| 22 | 77014.23 | 120736.15 | 156771.23 | 9.8865710 | 10.0818373 |
| 21 | 76995.67 | 120664.68 | 156716.19 | 9.8864663 | 10.0815802 |
| 20 | 76977.10 | 120593.27 | 156661.21 | 9.8863616 | 10.0813231 |
| 19 | 76958.53 | 120521.90 | 156606.28 | 9.8862568 | 10.0810660 |
| 18 | 76939.95 | 120450.58 | 156551.41 | 9.8861519 | 10.0808089 |
| 17 | 76921.37 | 120379.31 | 156496.58 | 9.8860470 | 10.0805519 |
| 16 | 76902.78 | 120308.10 | 156441.81 | 9.8859420 | 10.0802949 |
| 15 | 76884.18 | 120236.93 | 156387.08 | 9.8858370 | 10.0800379 |
| 14 | 76865.58 | 120165.81 | 156332.41 | 9.8857319 | 10.0797809 |
| 13 | 76846.97 | 120094.75 | 156277.79 | 9.8856267 | 10.0795240 |
| 12 | 76828.35 | 120023.73 | 156223.22 | 9.8855215 | 10.0792671 |
| 11 | 76809.73 | 119952.76 | 156168.70 | 9.8854162 | 10.0790102 |
| 10 | 76791.10 | 119881.84 | 156114.24 | 9.8853109 | 10.0787534 |
| 9 | 76772.46 | 119810.97 | 156059.82 | 9.8852055 | 10.0784966 |
| 8 | 76753.82 | 119740.15 | 156005.46 | 9.8851000 | 10.0782398 |
| 7 | 76735.17 | 119669.38 | 155951.15 | 9.8849945 | 10.0779830 |
| 6 | 76716.51 | 119598.66 | 155896.89 | 9.8848889 | 10.0777262 |
| 5 | 76697.85 | 119527.99 | 155842.67 | 9.8847832 | 10.0774694 |
| 4 | 76679.18 | 119457.36 | 155788.51 | 9.8846775 | 10.0772126 |
| 3 | 76660.51 | 119386.79 | 155734.41 | 9.8845717 | 10.0769558 |
| 2 | 76641.83 | 119316.26 | 155680.35 | 9.8844659 | 10.0766991 |
| 1 | 76623.14 | 119245.79 | 155626.34 | 9.8843599 | 10.0764423 |
| 0 | 76604.44 | 119175.36 | 155572.38 | 9.8842540 | 10.0761856 |

40 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 64278.76 | 83909.96 | 130540.73 | 9.8080675 | 9.9238135 |
| 1 | 64301.04 | 83959.54 | 130572.61 | 9.8082180 | 9.9240701 |
| 2 | 64323.32 | 84009.15 | 130604.51 | 9.8083684 | 9.9243266 |
| 3 | 64345.59 | 84058.78 | 130636.44 | 9.8085188 | 9.9245831 |
| 4 | 64367.85 | 84108.44 | 130668.39 | 9.8086690 | 9.9248396 |
| 5 | 64390.11 | 84158.12 | 130700.37 | 9.8088192 | 9.9250960 |
| 6 | 64412.36 | 84207.82 | 130732.38 | 9.8089692 | 9.9253524 |
| 7 | 64434.61 | 84257.55 | 130764.42 | 9.8091192 | 9.9256088 |
| 8 | 64456.85 | 84307.30 | 130796.49 | 9.8092691 | 9.9258652 |
| 9 | 64479.09 | 84357.08 | 130828.58 | 9.8094189 | 9.9261215 |
| 10 | 64501.32 | 84406.88 | 130860.70 | 9.8095686 | 9.9263778 |
| 11 | 64523.55 | 84456.70 | 130892.84 | 9.8097182 | 9.9266341 |
| 12 | 64545.77 | 84506.55 | 130925.01 | 9.8098678 | 9.9268904 |
| 13 | 64567.98 | 84556.43 | 130957.21 | 9.8100172 | 9.9271466 |
| 14 | 64590.19 | 84606.33 | 130989.43 | 9.8101666 | 9.9274028 |
| 15 | 64612.40 | 84656.25 | 131021.68 | 9.8103159 | 9.9276590 |
| 16 | 64634.60 | 84706.20 | 131053.96 | 9.8104650 | 9.9279152 |
| 17 | 64656.79 | 84756.17 | 131086.26 | 9.8106141 | 9.9281713 |
| 18 | 64678.98 | 84806.17 | 131118.59 | 9.8107631 | 9.9284274 |
| 19 | 64701.16 | 84856.19 | 131150.95 | 9.8109121 | 9.9286835 |
| 20 | 64723.34 | 84906.24 | 131183.34 | 9.8110609 | 9.9289396 |
| 21 | 64745.51 | 84956.31 | 131215.75 | 9.8112096 | 9.9291956 |
| 22 | 64767.67 | 85006.40 | 131248.19 | 9.8113583 | 9.9294516 |
| 23 | 64789.83 | 85056.52 | 131280.66 | 9.8115069 | 9.9297076 |
| 24 | 64811.99 | 85106.67 | 131313.16 | 9.8116554 | 9.9299636 |
| 25 | 64834.14 | 85156.84 | 131345.68 | 9.8118038 | 9.9302195 |
| 26 | 64856.28 | 85207.04 | 131378.23 | 9.8119521 | 9.9304755 |
| 27 | 64878.42 | 85257.26 | 131410.81 | 9.8121003 | 9.9307314 |
| 28 | 64900.55 | 85307.50 | 131443.41 | 9.8122484 | 9.9309872 |
| 29 | 64922.68 | 85357.77 | 131476.04 | 9.8123965 | 9.9312431 |
| 30 | 64944.80 | 85408.07 | 131508.70 | 9.8125444 | 9.9314989 |

49 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 76604.44 | 119175.36 | 155572.38 | 9.8842540 | 10.0761865 |
| 59 | 76585.74 | 119104.98 | 155518.48 | 9.8841479 | 10.0759299 |
| 58 | 76567.03 | 119034.65 | 155464.62 | 9.8840418 | 10.0756734 |
| 57 | 76548.32 | 118964.37 | 155410.81 | 9.8839357 | 10.0754169 |
| 56 | 76529.60 | 118894.14 | 155357.06 | 9.8838294 | 10.0751604 |
| 55 | 76510.87 | 118823.95 | 155303.35 | 9.8837232 | 10.0749040 |
| 54 | 76492.14 | 118753.82 | 155249.70 | 9.8836168 | 10.0746476 |
| 53 | 76473.40 | 118683.73 | 155196.09 | 9.8835104 | 10.0743912 |
| 52 | 76454.65 | 118613.69 | 155142.54 | 9.8834039 | 10.0741348 |
| 51 | 76435.90 | 118543.70 | 155089.04 | 9.8832974 | 10.0738785 |
| 50 | 76417.14 | 118473.76 | 155035.58 | 9.8831908 | 10.0736222 |
| 49 | 76398.37 | 118403.87 | 154982.18 | 9.8830841 | 10.0733659 |
| 48 | 76379.60 | 118334.02 | 154928.82 | 9.8829774 | 10.0731096 |
| 47 | 76360.82 | 118264.22 | 154875.52 | 9.8828706 | 10.0728534 |
| 46 | 76342.04 | 118194.47 | 154822.26 | 9.8827638 | 10.0725972 |
| 45 | 76323.25 | 118124.77 | 154769.06 | 9.8826568 | 10.0723410 |
| 44 | 76304.45 | 118055.12 | 154715.90 | 9.8825499 | 10.0720848 |
| 43 | 76285.64 | 117985.51 | 154662.80 | 9.8824428 | 10.0718287 |
| 42 | 76266.83 | 117915.95 | 154609.74 | 9.8823357 | 10.0715726 |
| 41 | 76248.01 | 117846.44 | 154556.73 | 9.8822285 | 10.0713165 |
| 40 | 76229.19 | 117776.98 | 154503.78 | 9.8821213 | 10.0710604 |
| 39 | 76210.36 | 117707.56 | 154450.87 | 9.8820140 | 10.0708044 |
| 38 | 76191.52 | 117638.20 | 154398.01 | 9.8819067 | 10.0705484 |
| 37 | 76172.68 | 117568.88 | 154345.20 | 9.8817992 | 10.0702924 |
| 36 | 76153.83 | 117499.60 | 154292.44 | 9.8816918 | 10.0700364 |
| 35 | 76134.97 | 117430.38 | 154239.73 | 9.8815842 | 10.0697805 |
| 34 | 76116.11 | 117361.20 | 154187.06 | 9.8814766 | 10.0695245 |
| 33 | 76097.24 | 117292.07 | 154134.45 | 9.8813689 | 10.0692686 |
| 32 | 76078.37 | 117222.98 | 154081.89 | 9.8812612 | 10.0690128 |
| 31 | 76059.49 | 117153.95 | 154029.37 | 9.8811534 | 10.0687569 |
| 30 | 76040.60 | 117084.96 | 153976.90 | 9.8810455 | 10.0685011 |

40 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 30 | 64944.80 | 85408.07 | 131508.70 | 9.8125444 | 9.9314989 |
| 31 | 64966.92 | 85458.39 | 131541.39 | 9.8126923 | 9.9317547 |
| 32 | 64989.03 | 85508.73 | 131574.10 | 9.8128401 | 9.9320105 |
| 33 | 65011.14 | 85559.10 | 131606.84 | 9.8129878 | 9.9322662 |
| 34 | 65033.24 | 85609.50 | 131639.61 | 9.8131354 | 9.9325220 |
| 35 | 65055.33 | 85659.92 | 131672.41 | 9.8132829 | 9.9327777 |
| 36 | 65077.42 | 85710.37 | 131705.23 | 9.8134303 | 9.9330334 |
| 37 | 65099.50 | 85760.84 | 131738.08 | 9.8135777 | 9.9332890 |
| 38 | 65121.58 | 85811.33 | 131770.96 | 9.8137250 | 9.9335446 |
| 39 | 65143.66 | 85861.85 | 131803.86 | 9.8138721 | 9.9338003 |
| 40 | 65165.72 | 85912.40 | 131836.79 | 9.8140192 | 9.9340559 |
| 41 | 65187.78 | 85962.97 | 131869.75 | 9.8141662 | 9.9343114 |
| 42 | 65209.84 | 86013.57 | 131902.74 | 9.8143131 | 9.9345670 |
| 43 | 65231.89 | 86064.19 | 131935.76 | 9.8144600 | 9.9348225 |
| 44 | 65253.94 | 86114.84 | 131968.81 | 9.8146067 | 9.9350780 |
| 45 | 65275.98 | 86165.51 | 132001.88 | 9.8147534 | 9.9353335 |
| 46 | 65298.01 | 86216.21 | 132034.98 | 9.8148999 | 9.9355889 |
| 47 | 65320.04 | 86266.93 | 132068.11 | 9.8150464 | 9.9358444 |
| 48 | 65342.06 | 86317.68 | 132101.26 | 9.8151928 | 9.9360998 |
| 49 | 65364.08 | 86368.46 | 132134.44 | 9.8153391 | 9.9363552 |
| 50 | 65386.09 | 86419.26 | 132167.65 | 9.8154854 | 9.9366105 |
| 51 | 65408.10 | 86470.09 | 132200.89 | 9.8156315 | 9.9368659 |
| 52 | 65430.10 | 86520.94 | 132234.16 | 9.8157776 | 9.9371212 |
| 53 | 65452.09 | 86571.81 | 132267.45 | 9.8159235 | 9.9373765 |
| 54 | 65474.08 | 86622.71 | 132300.77 | 9.8160694 | 9.9376318 |
| 55 | 65496.06 | 86673.64 | 132334.12 | 9.8162152 | 9.9378871 |
| 56 | 65518.04 | 86724.60 | 132367.50 | 9.8163609 | 9.9381423 |
| 57 | 65540.01 | 86775.58 | 132400.91 | 9.8165066 | 9.9383975 |
| 58 | 65561.98 | 86826.59 | 132434.35 | 9.8166521 | 9.9386527 |
| 59 | 65583.94 | 86877.62 | 132467.81 | 9.8167975 | 9.9389079 |
| 60 | 65605.90 | 86928.68 | 132501.30 | 9.8169429 | 9.9391631 |

49 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 76040.60 | 117084.96 | 153976.90 | 9.8810455 | 10.068501 |
| 29 | 76021.70 | 117016.01 | 153924.49 | 9.8809376 | 10.068245 |
| 28 | 76002.80 | 116947.12 | 153872.12 | 9.8808296 | 10.067989 |
| 27 | 75983.89 | 116878.27 | 153819.80 | 9.8807215 | 10.067733 |
| 26 | 75964.98 | 116809.47 | 153767.52 | 9.8806134 | 10.067478 |
| 25 | 75946.06 | 116740.71 | 153715.30 | 9.8805052 | 10.067222 |
| 24 | 75927.13 | 116672.00 | 153663.12 | 9.8803970 | 10.066966 |
| 23 | 75908.20 | 116603.34 | 153611.00 | 9.8802887 | 10.066711 |
| 22 | 75889.26 | 116534.72 | 153558.92 | 9.8801803 | 10.066455 |
| 21 | 75870.31 | 116466.15 | 153506.89 | 9.8800719 | 10.066199 |
| 20 | 75851.36 | 116397.63 | 153454.91 | 9.8799634 | 10.065944 |
| 19 | 75832.40 | 116329.16 | 153402.97 | 9.8798548 | 10.065688 |
| 18 | 75813.43 | 116260.73 | 153351.09 | 9.8797462 | 10.065433 |
| 17 | 75794.46 | 116192.34 | 153299.25 | 9.8796375 | 10.065177 |
| 16 | 75775.48 | 116124.00 | 153247.46 | 9.8795287 | 10.064922 |
| 15 | 75756.50 | 116055.71 | 153195.72 | 9.8794199 | 10.064666 |
| 14 | 75737.51 | 115987.47 | 153144.03 | 9.8793110 | 10.064411 |
| 13 | 75718.51 | 115919.27 | 153092.38 | 9.8792021 | 10.064155 |
| 12 | 75699.50 | 115851.11 | 153040.78 | 9.8790930 | 10.063900 |
| 11 | 75680.49 | 115783.01 | 152989.23 | 9.8789840 | 10.063644 |
| 10 | 75661.47 | 115714.95 | 152937.73 | 9.8788748 | 10.063389 |
| 9 | 75642.45 | 115646.93 | 152886.27 | 9.8787656 | 10.063134 |
| 8 | 75623.42 | 115578.96 | 152834.87 | 9.8786563 | 10.062878 |
| 7 | 75604.39 | 115511.04 | 152783.51 | 9.8785470 | 10.062623 |
| 6 | 75585.35 | 115443.16 | 152732.19 | 9.8784376 | 10.062368 |
| 5 | 75566.30 | 115375.32 | 152680.93 | 9.8783281 | 10.062112 |
| 4 | 75547.24 | 115307.54 | 152629.71 | 9.8782186 | 10.061857 |
| 3 | 75528.18 | 115239.79 | 152578.54 | 9.8781090 | 10.061602 |
| 2 | 75509.11 | 115172.10 | 152527.41 | 9.8779994 | 10.061347 |
| 1 | 75490.04 | 115104.45 | 152476.34 | 9.8778896 | 10.061092 |
| 0 | 75470.96 | 115036.84 | 152425.31 | 9.8777799 | 10.060836 |

41 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|----------|-----------|-----------|------------|
| 0 | 65605.90 | 86928.68 | 132501.30 | 9.8169429 | 9.9391631 |
| 1 | 65627.85 | 86979.76 | 132534.82 | 9.8170882 | 9.9394182 |
| 2 | 65649.80 | 87030.87 | 132568.37 | 9.8172334 | 9.9396733 |
| 3 | 65671.74 | 87082.00 | 132601.94 | 9.8173785 | 9.9399284 |
| 4 | 65693.67 | 87133.16 | 132635.54 | 9.8175235 | 9.9401835 |
| 5 | 65715.60 | 87184.35 | 132669.18 | 9.8176685 | 9.9404385 |
| 6 | 65737.52 | 87235.56 | 132702.84 | 9.8178133 | 9.9406936 |
| 7 | 65759.44 | 87286.80 | 132736.53 | 9.8179581 | 9.9409486 |
| 8 | 65781.35 | 87338.06 | 132770.25 | 9.8181028 | 9.9412036 |
| 9 | 65803.26 | 87389.35 | 132803.99 | 9.8182474 | 9.9414585 |
| 10 | 65825.16 | 87440.67 | 132837.76 | 9.8183919 | 9.9417135 |
| 11 | 65847.06 | 87492.01 | 132871.56 | 9.8185364 | 9.9419684 |
| 12 | 65868.95 | 87543.38 | 132905.39 | 9.8186807 | 9.9422233 |
| 13 | 65890.83 | 87594.78 | 132939.25 | 9.8188250 | 9.9424782 |
| 14 | 65912.71 | 87646.20 | 132973.14 | 9.8189692 | 9.9427331 |
| 15 | 65934.58 | 87697.65 | 133007.06 | 9.8191133 | 9.9429879 |
| 16 | 65956.45 | 87749.12 | 133041.00 | 9.8192573 | 9.9432428 |
| 17 | 65978.31 | 87800.62 | 133074.97 | 9.8194012 | 9.9434976 |
| 18 | 66000.17 | 87852.15 | 133108.97 | 9.8195450 | 9.9437524 |
| 19 | 66022.02 | 87903.70 | 133143.00 | 9.8196888 | 9.9440072 |
| 20 | 66043.86 | 87955.28 | 133177.06 | 9.8198325 | 9.9442619 |
| 21 | 66065.70 | 88006.89 | 133211.15 | 9.8199761 | 9.9445166 |
| 22 | 66087.53 | 88058.52 | 133245.27 | 9.8201196 | 9.9447714 |
| 23 | 66109.36 | 88110.18 | 133279.42 | 9.8202630 | 9.9450261 |
| 24 | 66131.18 | 88161.86 | 133313.59 | 9.8204063 | 9.9452807 |
| 25 | 66153.00 | 88213.57 | 133347.79 | 9.8205496 | 9.9455354 |
| 26 | 66174.81 | 88265.31 | 133382.02 | 9.8206927 | 9.9457900 |
| 27 | 66196.62 | 88317.07 | 133416.28 | 9.8208358 | 9.9460447 |
| 28 | 66218.42 | 88368.86 | 133450.57 | 9.8209788 | 9.9462993 |
| 29 | 66240.22 | 88420.68 | 133484.89 | 9.8211217 | 9.9465539 |
| 30 | 66262.01 | 88472.53 | 133519.24 | 9.8212646 | 9.9468084 |

48 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 60 | 75470.96 | 115036.84 | 152425.31 | 9.8777799 | 10.0603369 |
| 59 | 75451.87 | 114969.28 | 152374.33 | 9.8776700 | 10.0605818 |
| 58 | 75432.78 | 114901.76 | 152323.39 | 9.8775601 | 10.0603267 |
| 57 | 75413.68 | 114834.29 | 152272.50 | 9.8774501 | 10.0600716 |
| 56 | 75394.57 | 114766.87 | 152221.66 | 9.8773401 | 10.0598165 |
| 55 | 75375.46 | 114699.49 | 152170.87 | 9.8772300 | 10.0595615 |
| 54 | 75356.34 | 114632.15 | 152120.12 | 9.8771198 | 10.0593064 |
| 53 | 75337.21 | 114564.86 | 152069.42 | 9.8770096 | 10.0590514 |
| 52 | 75318.08 | 114497.62 | 152018.76 | 9.8768993 | 10.0587964 |
| 51 | 75298.94 | 114430.41 | 151968.15 | 9.8767889 | 10.0585415 |
| 50 | 75279.80 | 114363.26 | 151917.59 | 9.8766785 | 10.0582865 |
| 49 | 75260.65 | 114296.15 | 151867.08 | 9.8765680 | 10.0580316 |
| 48 | 75241.49 | 114229.08 | 151816.61 | 9.8764574 | 10.0577767 |
| 47 | 75222.33 | 114162.06 | 151766.19 | 9.8763468 | 10.0575218 |
| 46 | 75203.16 | 114095.08 | 151715.81 | 9.8762361 | 10.0572669 |
| 45 | 75183.98 | 114028.15 | 151665.48 | 9.8761253 | 10.0570121 |
| 44 | 75164.80 | 113961.26 | 151615.20 | 9.8760145 | 10.0567572 |
| 43 | 75145.61 | 113894.41 | 151564.96 | 9.8759036 | 10.0565024 |
| 42 | 75126.41 | 113827.61 | 151514.77 | 9.8757927 | 10.0562476 |
| 41 | 75107.21 | 113760.85 | 151464.62 | 9.8756816 | 10.0559928 |
| 40 | 75088.00 | 113694.14 | 151414.52 | 9.8755706 | 10.0557381 |
| 39 | 75068.79 | 113627.47 | 151364.47 | 9.8754594 | 10.0554834 |
| 38 | 75049.57 | 113560.85 | 151314.46 | 9.8753482 | 10.0552286 |
| 37 | 75030.34 | 113494.27 | 151264.50 | 9.8752369 | 10.0549739 |
| 36 | 75011.11 | 113427.73 | 151214.59 | 9.8751256 | 10.0547193 |
| 35 | 74991.87 | 113361.24 | 151164.72 | 9.8750142 | 10.0544646 |
| 34 | 74972.62 | 113294.79 | 151114.89 | 9.8749027 | 10.0542100 |
| 33 | 74953.37 | 113228.39 | 151065.11 | 9.8747912 | 10.0539553 |
| 32 | 74934.11 | 113162.03 | 151015.38 | 9.8746795 | 10.0537007 |
| 31 | 74914.84 | 113095.71 | 150965.69 | 9.8745679 | 10.0534461 |
| 30 | 74895.57 | 113029.44 | 150916.05 | 9.8744561 | 10.0531916 |

41 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 30 | 66262.01 | 88472.53 | 133519.24 | 9.8212646 | 9.9468084 |
| 31 | 66283.79 | 88524.40 | 133553.62 | 9.8214073 | 9.9470630 |
| 32 | 66305.57 | 88576.30 | 133588.03 | 9.8215500 | 9.9473175 |
| 33 | 66327.34 | 88628.22 | 133622.46 | 9.8216926 | 9.9475720 |
| 34 | 66349.11 | 88680.17 | 133656.92 | 9.8218351 | 9.9478265 |
| 35 | 66370.87 | 88732.15 | 133691.41 | 9.8219775 | 9.9480810 |
| 36 | 66392.62 | 88784.16 | 133725.94 | 9.8221198 | 9.9483355 |
| 37 | 66414.37 | 88836.20 | 133760.49 | 9.8222621 | 9.9485899 |
| 38 | 66436.11 | 88888.26 | 133795.07 | 9.8224042 | 9.9488443 |
| 39 | 66457.85 | 88940.34 | 133829.68 | 9.8225463 | 9.9490987 |
| 40 | 66479.59 | 88992.45 | 133864.32 | 9.8226883 | 9.9493531 |
| 41 | 66501.32 | 89044.59 | 133898.99 | 9.8228302 | 9.9496075 |
| 42 | 66523.04 | 89096.75 | 133933.69 | 9.8229721 | 9.9498619 |
| 43 | 66544.75 | 89148.94 | 133968.42 | 9.8231138 | 9.9501162 |
| 44 | 66566.46 | 89201.16 | 134003.17 | 9.8232555 | 9.9503705 |
| 45 | 66588.17 | 89253.41 | 134037.95 | 9.8233971 | 9.9506248 |
| 46 | 66609.87 | 89305.69 | 134072.76 | 9.8235386 | 9.9508791 |
| 47 | 66631.56 | 89357.99 | 134107.61 | 9.8236800 | 9.9511334 |
| 48 | 66653.25 | 89410.32 | 134142.48 | 9.8238213 | 9.9513876 |
| 49 | 66674.93 | 89462.68 | 134177.38 | 9.8239626 | 9.9516419 |
| 50 | 66696.61 | 89515.06 | 134212.32 | 9.8241037 | 9.9518961 |
| 51 | 66718.28 | 89567.47 | 134247.28 | 9.8242448 | 9.9521503 |
| 52 | 66739.94 | 89619.91 | 134282.27 | 9.8243858 | 9.9524045 |
| 53 | 66761.60 | 89672.38 | 134317.29 | 9.8245267 | 9.9526587 |
| 54 | 66783.26 | 89724.87 | 134352.34 | 9.8246676 | 9.9529128 |
| 55 | 66804.91 | 89777.39 | 134387.42 | 9.8248083 | 9.9531670 |
| 56 | 66826.55 | 89829.94 | 134422.53 | 9.8249490 | 9.9534211 |
| 57 | 66848.18 | 89882.52 | 134457.67 | 9.8250896 | 9.9536752 |
| 58 | 66869.81 | 89935.12 | 134492.84 | 9.8252301 | 9.9539293 |
| 59 | 66891.44 | 89987.75 | 134528.04 | 9.8253705 | 9.9541834 |
| 60 | 66913.06 | 90040.41 | 134563.27 | 9.8255109 | 9.9544374 |

48 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 74895.57 | 113029.44 | 150916.05 | 9.8744561 | 10.053191 |
| 29 | 74876.29 | 112963.21 | 150896.45 | 9.8743443 | 10.052937 |
| 28 | 74857.01 | 112847.02 | 150816.90 | 9.8742325 | 10.052682 |
| 27 | 74837.72 | 112830.88 | 150767.39 | 9.8741205 | 10.052428 |
| 26 | 74818.42 | 112764.78 | 150717.93 | 9.8740085 | 10.052173 |
| 25 | 74799.12 | 112698.72 | 150668.52 | 9.8738965 | 10.051919 |
| 24 | 74779.81 | 112632.71 | 150619.15 | 9.8737844 | 10.051664 |
| 23 | 74760.49 | 112566.74 | 150569.82 | 9.8736722 | 10.051410 |
| 22 | 74741.17 | 112500.81 | 150520.54 | 9.8735599 | 10.051155 |
| 21 | 74721.84 | 112434.93 | 150471.31 | 9.8734476 | 10.050901 |
| 20 | 74702.51 | 112369.09 | 150422.11 | 9.8733352 | 10.050646 |
| 19 | 74683.17 | 112303.29 | 150372.97 | 9.8732227 | 10.050392 |
| 18 | 74663.82 | 112237.54 | 150323.87 | 9.8731102 | 10.050138 |
| 17 | 74644.46 | 112171.83 | 150274.81 | 9.8729976 | 10.049883 |
| 16 | 74625.10 | 112106.16 | 150225.80 | 9.8728849 | 10.049629 |
| 15 | 74605.74 | 112040.53 | 150176.83 | 9.8727722 | 10.049375 |
| 14 | 74586.37 | 111974.95 | 150127.91 | 9.8726594 | 10.049120 |
| 13 | 74566.99 | 111909.41 | 150079.03 | 9.8725466 | 10.048866 |
| 12 | 74547.60 | 111843.91 | 150030.20 | 9.8724337 | 10.048612 |
| 11 | 74528.21 | 111778.46 | 149981.41 | 9.8723207 | 10.048358 |
| 10 | 74508.81 | 111713.05 | 149932.67 | 9.8722076 | 10.048103 |
| 9 | 74489.40 | 111647.68 | 149883.97 | 9.8720945 | 10.047849 |
| 8 | 74469.99 | 111582.35 | 149835.31 | 9.8719813 | 10.047595 |
| 7 | 74450.57 | 111517.06 | 149786.70 | 9.8718681 | 10.047341 |
| 6 | 74431.15 | 111451.82 | 149738.13 | 9.8717548 | 10.047087 |
| 5 | 74411.72 | 111386.62 | 149689.61 | 9.8716414 | 10.046833 |
| 4 | 74392.29 | 111321.46 | 149641.13 | 9.8715279 | 10.046578 |
| 3 | 74372.85 | 111256.35 | 149592.70 | 9.8714144 | 10.046324 |
| 2 | 74353.40 | 111191.27 | 149544.30 | 9.8713008 | 10.046070 |
| 1 | 74333.94 | 111126.24 | 149495.96 | 9.8711872 | 10.045816 |
| 0 | 74314.48 | 111061.25 | 149447.65 | 9.8710735 | 10.045562 |

42 Grad.

Minute

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|------------|------------|
| 0 | 65913.06 | 90040.41 | 134563.27 | 9.8255109 | 9.9544374 |
| 1 | 66934.67 | 90093.09 | 134598.53 | 9.8256; 12 | 9.9546915 |
| 2 | 66956.28 | 90145.80 | 134633.82 | 9.8257913 | 9.9549455 |
| 3 | 66977.88 | 90198.54 | 134669.14 | 9.1259314 | 9.9551995 |
| 4 | 66999.48 | 90251.31 | 134704.49 | 9.8260715 | 9.9554535 |
| 5 | 67021.07 | 90304.11 | 134739.87 | 9.8262114 | 9.9557075 |
| 6 | 67042.66 | 90356.94 | 134775.28 | 9.8263512 | 9.9559615 |
| 7 | 67064.24 | 90409.79 | 134810.72 | 9.8264910 | 9.9562154 |
| 8 | 67085.82 | 90462.67 | 134846.19 | 9.8266307 | 9.9564694 |
| 9 | 67107.39 | 90515.58 | 134881.69 | 9.8267703 | 9.9567233 |
| 10 | 67128.95 | 90568.51 | 134917.21 | 9.8269098 | 9.9569772 |
| 11 | 67150.51 | 90621.47 | 134952.77 | 9.8270493 | 9.9572311 |
| 12 | 67172.06 | 90674.46 | 134988.36 | 9.8271887 | 9.9574850 |
| 13 | 67193.61 | 90727.48 | 135023.98 | 9.8273279 | 9.9577389 |
| 14 | 67215.15 | 90780.53 | 135059.63 | 9.8274671 | 9.9579927 |
| 15 | 67236.68 | 90833.60 | 135095.31 | 9.8276063 | 9.9582465 |
| 16 | 97258.21 | 90886.71 | 135131.02 | 9.8277453 | 9.9585004 |
| 17 | 67279.73 | 90939.84 | 135166.76 | 9.8278843 | 9.9587542 |
| 18 | 67301.25 | 90993.00 | 135202.54 | 9.8280231 | 9.9590080 |
| 19 | 67322.76 | 91046.19 | 135238.34 | 9.8281619 | 9.9592618 |
| 20 | 67344.27 | 91099.41 | 135274.17 | 9.8283006 | 9.9595155 |
| 21 | 67365.77 | 91152.65 | 135310.03 | 9.8284393 | 9.9597693 |
| 22 | 67387.27 | 91205.92 | 135345.93 | 9.8285778 | 9.9600230 |
| 23 | 67408.76 | 91259.22 | 135381.86 | 9.8287163 | 9.9602767 |
| 24 | 67430.24 | 91312.55 | 135417.81 | 9.8288547 | 9.9605305 |
| 25 | 67451.72 | 91365.91 | 135453.79 | 9.8289930 | 9.9607842 |
| 26 | 67473.19 | 91419.29 | 135489.80 | 9.8291312 | 9.9610378 |
| 27 | 67494.66 | 91472.70 | 135525.85 | 9.8292694 | 9.9612915 |
| 28 | 67516.12 | 91526.15 | 135561.93 | 9.8294075 | 9.9615452 |
| 29 | 67537.57 | 91579.62 | 135598.03 | 9.8295454 | 9.9617988 |
| 30 | 67559.02 | 91633.12 | 135634.17 | 9.8296833 | 9.9620525 |

47 Grad.

| Minut. | 47 Grad. | | | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| | Sinus | Tang. | Secant. | | |
| 60 | 74314.48 | 111061.25 | 149447.65 | 9.8710735 | 10.0455626 |
| 59 | 74295.01 | 110996.30 | 149399.40 | 9.8709597 | 10.0453085 |
| 58 | 74275.54 | 110931.40 | 149351.18 | 9.8708458 | 10.0450545 |
| 57 | 74256.06 | 110866.53 | 149303.01 | 9.8707319 | 10.0448005 |
| 56 | 74236.57 | 110801.71 | 149254.88 | 9.8706179 | 10.0445465 |
| 55 | 74217.08 | 110736.93 | 149206.80 | 9.8705039 | 10.0442925 |
| 54 | 74197.58 | 110672.19 | 149158.75 | 9.8703898 | 10.0440385 |
| 53 | 74178.08 | 110607.50 | 149110.76 | 9.8702756 | 10.0437846 |
| 52 | 74158.57 | 110542.84 | 149062.80 | 9.8701613 | 10.0435306 |
| 51 | 74139.05 | 110478.23 | 149014.89 | 9.8700470 | 10.0432767 |
| 50 | 74119.53 | 110413.65 | 148967.03 | 9.8699326 | 10.0430228 |
| 49 | 74100.00 | 110349.12 | 148919.20 | 9.8698182 | 10.0427689 |
| 48 | 74080.46 | 110284.63 | 148871.42 | 9.8697037 | 10.0425150 |
| 47 | 74060.92 | 110220.19 | 148823.69 | 9.8695891 | 10.0422611 |
| 46 | 74041.37 | 110155.78 | 148775.99 | 9.8694744 | 10.0420073 |
| 45 | 74021.81 | 110091.41 | 148728.34 | 9.8693597 | 10.0417535 |
| 44 | 74002.25 | 110027.09 | 148680.73 | 9.8692449 | 10.0414996 |
| 43 | 73982.68 | 109962.81 | 148633.17 | 9.8691301 | 10.0412458 |
| 42 | 73963.11 | 109898.56 | 148585.65 | 9.8690152 | 10.0409920 |
| 41 | 73943.53 | 109834.36 | 148538.17 | 9.8689002 | 10.0407382 |
| 40 | 73923.94 | 109770.20 | 148490.73 | 9.8687851 | 10.0404844 |
| 39 | 73904.35 | 109706.08 | 148443.34 | 9.8686700 | 10.0402306 |
| 38 | 73884.75 | 109642.01 | 148395.99 | 9.8685548 | 10.0399770 |
| 37 | 73865.15 | 109577.97 | 148348.68 | 9.8684396 | 10.0397233 |
| 36 | 73845.54 | 109513.97 | 148301.42 | 9.8683242 | 10.0394697 |
| 35 | 73825.92 | 109450.02 | 148254.20 | 9.8682088 | 10.0392159 |
| 34 | 73806.29 | 109386.10 | 148207.02 | 9.8680934 | 10.0389622 |
| 33 | 73786.66 | 109322.23 | 148159.88 | 9.8679779 | 10.0387088 |
| 32 | 73767.02 | 109258.40 | 148112.78 | 9.8678623 | 10.0384544 |
| 31 | 73747.38 | 109194.60 | 148065.73 | 9.8677466 | 10.0382011 |
| 30 | 73727.73 | 109130.85 | 148018.72 | 9.8676309 | 10.0379477 |

42 Grad.

| Minut. | 42 Grad. | | Log. Sin. | | Log. Tang. | |
|--------|----------|----------|-----------|-----------|------------|--|
| | Sinus | Tang. | Secant. | | | |
| 30 | 67559.02 | 91633.12 | 135634.17 | 9.8296833 | 9.9620525 | |
| 31 | 67580.46 | 91686.65 | 135670.34 | 9.8298212 | 9.9623061 | |
| 32 | 67601.90 | 91740.20 | 135706.54 | 9.8299589 | 9.9625597 | |
| 33 | 67623.33 | 91793.79 | 135742.77 | 9.8300966 | 9.9628133 | |
| 34 | 67644.76 | 91847.40 | 135779.03 | 9.8302342 | 9.9630669 | |
| 35 | 67666.18 | 91901.04 | 135815.32 | 9.8303717 | 9.9633204 | |
| 36 | 67687.60 | 91954.71 | 135851.64 | 9.8305091 | 9.9635740 | |
| 37 | 67709.01 | 92008.41 | 135888.00 | 9.8306464 | 9.9638275 | |
| 38 | 67730.41 | 92062.14 | 135924.38 | 9.8307837 | 9.9640811 | |
| 39 | 67751.81 | 92115.90 | 135960.80 | 9.8309209 | 9.9643346 | |
| 40 | 67773.20 | 92169.68 | 135997.25 | 9.8310580 | 9.9645881 | |
| 41 | 67794.59 | 92223.50 | 136033.72 | 9.8311950 | 9.9648416 | |
| 42 | 67815.97 | 92277.34 | 136070.23 | 9.8313320 | 9.9650951 | |
| 43 | 67837.34 | 92331.22 | 136106.77 | 9.8314688 | 9.9653486 | |
| 44 | 67858.71 | 92385.12 | 136143.34 | 9.8316056 | 9.9656020 | |
| 45 | 67880.07 | 92439.05 | 136179.95 | 9.8317423 | 9.9658555 | |
| 46 | 67901.43 | 92493.01 | 136216.58 | 9.8318789 | 9.9661089 | |
| 47 | 67922.78 | 92547.00 | 136253.24 | 9.8320155 | 9.9663623 | |
| 48 | 67944.13 | 92601.01 | 136289.94 | 9.8321519 | 9.9666157 | |
| 49 | 67965.47 | 92655.06 | 136326.67 | 9.8322883 | 9.9668692 | |
| 50 | 67986.81 | 92709.14 | 136363.43 | 9.8324246 | 9.9671225 | |
| 51 | 68008.14 | 92763.24 | 136400.22 | 9.8325609 | 9.9673759 | |
| 52 | 68029.46 | 92817.38 | 136437.04 | 9.8326970 | 9.9676293 | |
| 53 | 68050.78 | 92871.54 | 136473.89 | 9.8328331 | 9.9678827 | |
| 54 | 68072.09 | 92925.73 | 136510.78 | 9.8329691 | 9.9681360 | |
| 55 | 68093.39 | 92979.96 | 136547.70 | 9.8331050 | 9.9683893 | |
| 56 | 68114.69 | 93034.21 | 136584.64 | 9.8332403 | 9.9686427 | |
| 57 | 68135.99 | 93088.49 | 136621.62 | 9.8333766 | 9.9688960 | |
| 58 | 68157.28 | 93142.80 | 136658.63 | 9.8335122 | 9.9691493 | |
| 59 | 68178.56 | 93197.14 | 136695.67 | 9.8336478 | 9.9694026 | |
| 60 | 68199.84 | 93251.51 | 136732.75 | 9.8337833 | 9.9696559 | |

47 Grad.

| Minut. | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|--------|----------|-----------|-----------|-----------|------------|
| 30 | 73727.73 | 109130.85 | 148018.72 | 9.8676309 | 10.0379475 |
| 29 | 73708.08 | 109067.14 | 147971.76 | 9.8675151 | 10.0376939 |
| 28 | 73688.42 | 109003.47 | 147924.83 | 9.8673992 | 10.0374403 |
| 27 | 73668.75 | 108939.83 | 147877.95 | 9.8672833 | 10.0371867 |
| 26 | 73649.07 | 108876.24 | 147831.11 | 9.8671673 | 10.0369331 |
| 25 | 73629.39 | 108812.69 | 147784.31 | 9.8670512 | 10.0366796 |
| 24 | 73609.71 | 108749.18 | 147737.55 | 9.8669351 | 10.0364260 |
| 23 | 73590.02 | 108685.71 | 147690.84 | 9.8668189 | 10.0361725 |
| 22 | 73570.32 | 108622.28 | 147644.17 | 9.8667026 | 10.0359189 |
| 21 | 73550.61 | 108558.89 | 147597.54 | 9.8665863 | 10.0356654 |
| 20 | 73530.90 | 108495.54 | 147550.95 | 9.8664699 | 10.0354119 |
| 19 | 73511.18 | 108432.23 | 147504.40 | 9.8663534 | 10.0351584 |
| 18 | 73491.46 | 108368.96 | 147457.90 | 9.8662369 | 10.0349049 |
| 17 | 73471.73 | 108305.73 | 147411.44 | 9.8661203 | 10.0346514 |
| 16 | 73451.99 | 108242.54 | 147365.01 | 9.8660036 | 10.0343980 |
| 15 | 73432.25 | 108179.39 | 147318.64 | 9.8658868 | 10.0341445 |
| 14 | 73412.50 | 108116.28 | 147272.30 | 9.8657700 | 10.0338911 |
| 13 | 73392.75 | 108053.21 | 147226.00 | 9.8656531 | 10.0336377 |
| 12 | 73372.99 | 107990.18 | 147179.75 | 9.8655362 | 10.0333843 |
| 11 | 73353.22 | 107927.18 | 147133.53 | 9.8654192 | 10.0331308 |
| 10 | 73333.45 | 107864.23 | 147087.36 | 9.8653021 | 10.0328775 |
| 9 | 73313.67 | 107801.32 | 147041.23 | 9.8651849 | 10.0326241 |
| 8 | 73293.88 | 107738.44 | 146995.14 | 9.8650677 | 10.0323707 |
| 7 | 73274.09 | 107675.61 | 146949.10 | 9.8649504 | 10.0321173 |
| 6 | 73254.29 | 107612.82 | 146903.09 | 9.8648331 | 10.0318640 |
| 5 | 73234.48 | 107550.06 | 146857.13 | 9.8647156 | 10.0316107 |
| 4 | 73214.67 | 107487.34 | 146811.20 | 9.8645981 | 10.0313573 |
| 3 | 73194.85 | 107424.67 | 146765.32 | 9.8644806 | 10.0311040 |
| 2 | 73175.03 | 107362.03 | 146719.48 | 9.8643629 | 10.0308507 |
| 1 | 73155.20 | 107299.43 | 146673.68 | 9.8642452 | 10.0305974 |
| 0 | 73135.37 | 107236.87 | 146627.92 | 9.8641275 | 10.0303441 |

43 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 68199.84 | 93251.51 | 136732.75 | 9.8337833 | 9.9696559 |
| 1 | 68221.11 | 93305.91 | 136769.85 | 9.8339188 | 9.9699091 |
| 2 | 68242.37 | 93360.34 | 136806.99 | 9.8340541 | 9.9701624 |
| 3 | 68263.63 | 93414.79 | 136844.16 | 9.8341894 | 9.9704157 |
| 4 | 68284.88 | 93469.28 | 136881.36 | 9.8343246 | 9.9706689 |
| 5 | 68306.13 | 93523.80 | 136918.59 | 9.8344597 | 9.9709221 |
| 6 | 68327.37 | 93578.34 | 136955.86 | 9.8345948 | 9.9711754 |
| 7 | 68348.61 | 93632.92 | 136993.15 | 9.8347297 | 9.9714286 |
| 8 | 68369.84 | 93687.53 | 137030.48 | 9.8348646 | 9.9716818 |
| 9 | 68391.07 | 93742.16 | 137067.84 | 9.8349994 | 9.9719350 |
| 10 | 68412.29 | 93796.83 | 137105.23 | 9.8351341 | 9.9721882 |
| 11 | 68433.50 | 93851.52 | 137142.66 | 9.8352688 | 9.9724413 |
| 12 | 68454.71 | 93906.25 | 137180.11 | 9.8354033 | 9.9726945 |
| 13 | 68475.91 | 93961.01 | 137217.60 | 9.8355378 | 9.9729477 |
| 14 | 68497.11 | 94015.79 | 137255.12 | 9.8356722 | 9.9732008 |
| 15 | 68518.30 | 94070.61 | 137292.68 | 9.8358066 | 9.9734539 |
| 16 | 68539.48 | 94125.45 | 137330.26 | 9.8359408 | 9.9737071 |
| 17 | 68560.66 | 94180.33 | 137367.88 | 9.8360750 | 9.9739602 |
| 18 | 68581.83 | 94235.23 | 137405.53 | 9.8362091 | 9.9742133 |
| 19 | 68603.00 | 94290.17 | 137443.21 | 9.8363431 | 9.9744664 |
| 20 | 68624.16 | 94345.13 | 137480.92 | 9.8364771 | 9.9747195 |
| 21 | 68645.32 | 94400.13 | 137518.67 | 9.8366109 | 9.9749726 |
| 22 | 68666.47 | 94455.16 | 137556.45 | 9.8367447 | 9.9752257 |
| 23 | 68687.61 | 94510.21 | 137594.26 | 9.8368784 | 9.9754787 |
| 24 | 68708.75 | 94565.30 | 137632.10 | 9.8370121 | 9.9757318 |
| 25 | 68729.88 | 94620.42 | 137669.98 | 9.8371456 | 9.9759849 |
| 26 | 68751.01 | 94675.56 | 137707.89 | 9.8372791 | 9.9762379 |
| 27 | 68772.13 | 94730.74 | 137745.83 | 9.8374125 | 9.9764909 |
| 28 | 68793.24 | 94785.95 | 137783.80 | 9.8375458 | 9.9767440 |
| 29 | 68814.35 | 94841.19 | 137821.81 | 9.8376790 | 9.9769970 |
| 30 | 68835.45 | 94896.46 | 137859.85 | 9.8378122 | 9.9772500 |

46 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|-----------|-----------|-----------|------------|
| 73135.37 | 107236.87 | 146627.92 | 9.8641275 | 10.030344 |
| 73115.53 | 107174.35 | 146582.20 | 9.8640096 | 10.0300905 |
| 73095.68 | 107111.87 | 146536.52 | 9.8638917 | 10.0298376 |
| 73075.83 | 107049.43 | 146490.88 | 9.8637737 | 10.0295842 |
| 73055.97 | 106987.02 | 146445.29 | 9.8636557 | 10.0293311 |
| 73036.10 | 106924.66 | 146399.73 | 9.8635376 | 10.0290775 |
| 73016.23 | 106862.33 | 146354.22 | 9.8634194 | 10.0288246 |
| 72996.35 | 106800.04 | 146308.75 | 9.8633011 | 10.0285714 |
| 72976.46 | 106737.79 | 146263.31 | 9.8631828 | 10.0283182 |
| 72956.57 | 106675.58 | 146217.92 | 9.8630644 | 10.0280650 |
| 72936.67 | 106613.41 | 146172.57 | 9.8629460 | 10.0278118 |
| 72916.77 | 106551.28 | 146127.26 | 9.8628274 | 10.0275587 |
| 72896.86 | 106489.18 | 146081.98 | 9.8627088 | 10.0273055 |
| 72876.94 | 106427.13 | 146036.75 | 9.8625902 | 10.0270523 |
| 72857.02 | 106365.11 | 145991.56 | 9.8624714 | 10.0267992 |
| 72837.09 | 106303.13 | 145946.41 | 9.8623526 | 10.0265461 |
| 72817.16 | 106241.19 | 145901.30 | 9.8622338 | 10.0262929 |
| 72797.22 | 106179.29 | 145856.23 | 9.8621148 | 10.0260398 |
| 72777.27 | 106117.42 | 145811.20 | 9.8619958 | 10.0257867 |
| 72757.32 | 106055.60 | 145766.21 | 9.8618767 | 10.0255336 |
| 72737.36 | 105993.81 | 145721.27 | 9.8617576 | 10.0252805 |
| 72717.40 | 105932.06 | 145676.36 | 9.8616383 | 10.0250274 |
| 72697.43 | 105870.34 | 145631.49 | 9.8615190 | 10.0247743 |
| 72677.45 | 105808.67 | 145586.66 | 9.8613997 | 10.0245213 |
| 72657.47 | 105747.03 | 145541.87 | 9.8612803 | 10.0242682 |
| 72637.48 | 105685.44 | 145497.12 | 9.8611608 | 10.0240151 |
| 72617.48 | 105623.88 | 145452.41 | 9.8610412 | 10.0237621 |
| 72597.48 | 105562.35 | 145407.74 | 9.8609215 | 10.0235091 |
| 72577.47 | 105500.87 | 145363.11 | 9.8608018 | 10.0232560 |
| 72557.46 | 105439.42 | 145318.52 | 9.8606821 | 10.0230030 |
| 72537.44 | 105378.01 | 145273.97 | 9.8605622 | 10.0227500 |

43 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|----------|-----------|-----------|------------|
| 68835.45 | 94896.46 | 137859.85 | 9.8378122 | 9.9772500 |
| 68856.55 | 94951.76 | 137897.92 | 9.8379453 | 9.9775030 |
| 68877.64 | 95007.09 | 137936.02 | 9.8380783 | 9.9777560 |
| 68898.73 | 95062.45 | 137974.16 | 9.8382112 | 9.9780090 |
| 68919.81 | 95117.84 | 138012.33 | 9.8383441 | 9.9782620 |
| 68940.89 | 95173.26 | 138050.53 | 9.8384769 | 9.9785149 |
| 68961.96 | 95228.71 | 138088.77 | 9.8386096 | 9.9787679 |
| 68983.02 | 95284.20 | 138127.04 | 9.8387422 | 9.9790209 |
| 69004.07 | 95339.71 | 138165.34 | 9.8388747 | 9.9792738 |
| 69025.12 | 95395.26 | 138203.67 | 9.8390072 | 9.9795268 |
| 69046.17 | 95450.83 | 138242.04 | 9.8391396 | 9.9797797 |
| 69067.21 | 95506.44 | 138280.44 | 9.8392719 | 9.9800326 |
| 69088.24 | 95562.08 | 138318.87 | 9.8394041 | 9.9802856 |
| 69109.27 | 95617.74 | 138357.34 | 9.8395363 | 9.9805385 |
| 69130.29 | 95673.44 | 138395.84 | 9.8396684 | 9.9807914 |
| 69151.31 | 95729.17 | 138434.37 | 9.8398004 | 9.9810443 |
| 69172.32 | 95784.94 | 138472.94 | 9.8399323 | 9.9812972 |
| 69193.32 | 95840.73 | 138511.54 | 9.8400642 | 9.9815501 |
| 69214.32 | 95896.55 | 138550.37 | 9.8401959 | 9.9818030 |
| 69235.31 | 95952.41 | 138588.83 | 9.8403276 | 9.9820559 |
| 69256.30 | 96008.29 | 138627.53 | 9.8404593 | 9.9823087 |
| 69277.28 | 96064.21 | 138666.26 | 9.8405908 | 9.9825616 |
| 69298.25 | 96120.16 | 138705.03 | 9.8407223 | 9.9828145 |
| 69319.22 | 96176.14 | 138743.83 | 9.8408537 | 9.9830673 |
| 69340.18 | 96232.15 | 138782.66 | 9.8409850 | 9.9833202 |
| 69361.14 | 96288.19 | 138821.53 | 9.8411162 | 9.9835730 |
| 69382.09 | 96344.27 | 138860.42 | 9.8412474 | 9.9838259 |
| 69403.04 | 96400.37 | 138899.36 | 9.8413785 | 9.9840787 |
| 69423.98 | 96456.51 | 138938.32 | 9.8415095 | 9.9843315 |
| 69444.91 | 96512.68 | 138977.32 | 9.8416404 | 9.9845844 |
| 69465.84 | 96568.88 | 139016.36 | 9.8417713 | 9.9848372 |

46 Grad.

| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|-----------|-----------|-----------|------------|
| 72537.44 | 105378.01 | 145273.97 | 9.8605622 | 10.0227500 |
| 72517.41 | 105316.64 | 145229.46 | 9.8604423 | 10.0224970 |
| 72497.38 | 105255.31 | 145184.98 | 9.8603223 | 10.0222440 |
| 72477.34 | 105194.01 | 145140.55 | 9.8602022 | 10.0219910 |
| 72457.29 | 105132.75 | 145096.16 | 9.8600821 | 10.0217380 |
| 72437.24 | 105071.53 | 145051.81 | 9.8599619 | 10.0214851 |
| 72417.18 | 105010.34 | 145007.49 | 9.8598416 | 10.0212321 |
| 72397.12 | 104949.20 | 144963.22 | 9.8597213 | 10.0209791 |
| 72377.05 | 104888.09 | 144918.98 | 9.8596009 | 10.0207262 |
| 72356.98 | 104827.02 | 144874.78 | 9.8594804 | 10.0204732 |
| 72336.90 | 104765.98 | 144830.63 | 9.8593599 | 10.0202203 |
| 72316.81 | 104704.98 | 144786.51 | 9.8592393 | 10.0199674 |
| 72296.71 | 104644.02 | 144742.43 | 9.8591186 | 10.0197144 |
| 72276.61 | 104583.10 | 144698.39 | 9.8589978 | 10.0194615 |
| 72256.51 | 104522.21 | 144654.39 | 9.8588770 | 10.0192086 |
| 72236.40 | 104461.36 | 144610.43 | 9.8587561 | 10.0189557 |
| 72216.28 | 104400.55 | 144566.51 | 9.8586351 | 10.0187028 |
| 72196.15 | 104339.77 | 144522.62 | 9.8585141 | 10.0184499 |
| 72176.02 | 104279.04 | 144478.78 | 9.8583929 | 10.0181970 |
| 72155.88 | 104218.33 | 144434.97 | 9.8582718 | 10.0179441 |
| 72135.74 | 104157.67 | 144391.20 | 9.8581505 | 10.0176913 |
| 72115.59 | 104097.04 | 144347.48 | 9.8580292 | 10.0174384 |
| 72095.44 | 104036.45 | 144303.79 | 9.8579078 | 10.0171855 |
| 72075.28 | 103975.89 | 144260.13 | 9.8577863 | 10.0169327 |
| 72055.11 | 103915.37 | 144216.52 | 9.8576648 | 10.0166798 |
| 72034.94 | 103854.89 | 144172.95 | 9.8575432 | 10.0164270 |
| 72014.76 | 103794.45 | 144129.41 | 9.8574215 | 10.0161741 |
| 71994.57 | 103734.04 | 144085.91 | 9.8572998 | 10.0159213 |
| 71974.38 | 103673.67 | 144042.46 | 9.8571779 | 10.0156685 |
| 71954.18 | 103613.33 | 143999.04 | 9.8570561 | 10.0154156 |
| 71933.98 | 103553.03 | 143955.65 | 9.8569341 | 10.0151628 |

44 Grad.

Minut.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----|----------|----------|-----------|-----------|------------|
| 0 | 69465.84 | 96568.88 | 139016.36 | 9.8417713 | 9.984832 |
| 1 | 69486.76 | 96625.11 | 139055.43 | 9.8419021 | 9.985008 |
| 2 | 69507.67 | 96681.37 | 139094.53 | 9.8420328 | 9.985184 |
| 3 | 69528.58 | 96737.67 | 139133.66 | 9.8421634 | 9.985359 |
| 4 | 69549.49 | 96794.00 | 139172.83 | 9.8422939 | 9.985534 |
| 5 | 69570.39 | 96850.35 | 139212.03 | 9.8424244 | 9.985709 |
| 6 | 69591.28 | 96906.74 | 139251.27 | 9.8425548 | 9.985884 |
| 7 | 69612.17 | 96963.16 | 139290.54 | 9.8426851 | 9.986059 |
| 8 | 69633.05 | 97019.62 | 139329.85 | 9.8428154 | 9.986234 |
| 9 | 69653.92 | 97076.10 | 139369.18 | 9.8429456 | 9.986409 |
| 10 | 69674.79 | 97132.62 | 139408.56 | 9.8430757 | 9.986584 |
| 11 | 69695.65 | 97189.17 | 139447.96 | 9.8432057 | 9.986759 |
| 12 | 69716.51 | 97245.75 | 139487.40 | 9.8433356 | 9.986934 |
| 13 | 69737.36 | 97302.36 | 139526.88 | 9.8434655 | 9.987109 |
| 14 | 69758.21 | 97359.01 | 139566.39 | 9.8435953 | 9.987284 |
| 15 | 69779.05 | 97415.69 | 139605.93 | 9.8437250 | 9.987459 |
| 16 | 69799.88 | 97472.40 | 139645.51 | 9.8438547 | 9.987634 |
| 17 | 69820.71 | 97529.14 | 139685.12 | 9.8439842 | 9.987809 |
| 18 | 69841.53 | 97585.91 | 139724.77 | 9.8441137 | 9.987984 |
| 19 | 69862.34 | 97642.72 | 139764.45 | 9.8442432 | 9.988159 |
| 20 | 69883.15 | 97699.56 | 139804.16 | 9.8443725 | 9.988334 |
| 21 | 69903.96 | 97756.43 | 139843.91 | 9.8445018 | 9.988509 |
| 22 | 69924.76 | 97813.33 | 139883.69 | 9.8446310 | 9.988684 |
| 23 | 69945.55 | 97870.27 | 139923.51 | 9.8447601 | 9.988859 |
| 24 | 69966.33 | 97927.24 | 139963.36 | 9.8448891 | 9.989034 |
| 25 | 69987.11 | 97984.24 | 140003.25 | 9.8450181 | 9.989209 |
| 26 | 70007.89 | 98041.27 | 140043.17 | 9.8451470 | 9.989384 |
| 27 | 70028.66 | 98098.33 | 140083.13 | 9.8452758 | 9.989559 |
| 28 | 70049.42 | 98155.43 | 140123.12 | 9.8454045 | 9.989734 |
| 29 | 70070.18 | 98212.56 | 140163.15 | 9.8455332 | 9.989909 |
| 30 | 70090.93 | 98269.73 | 140203.21 | 9.8456618 | 9.990084 |

45 Grad.

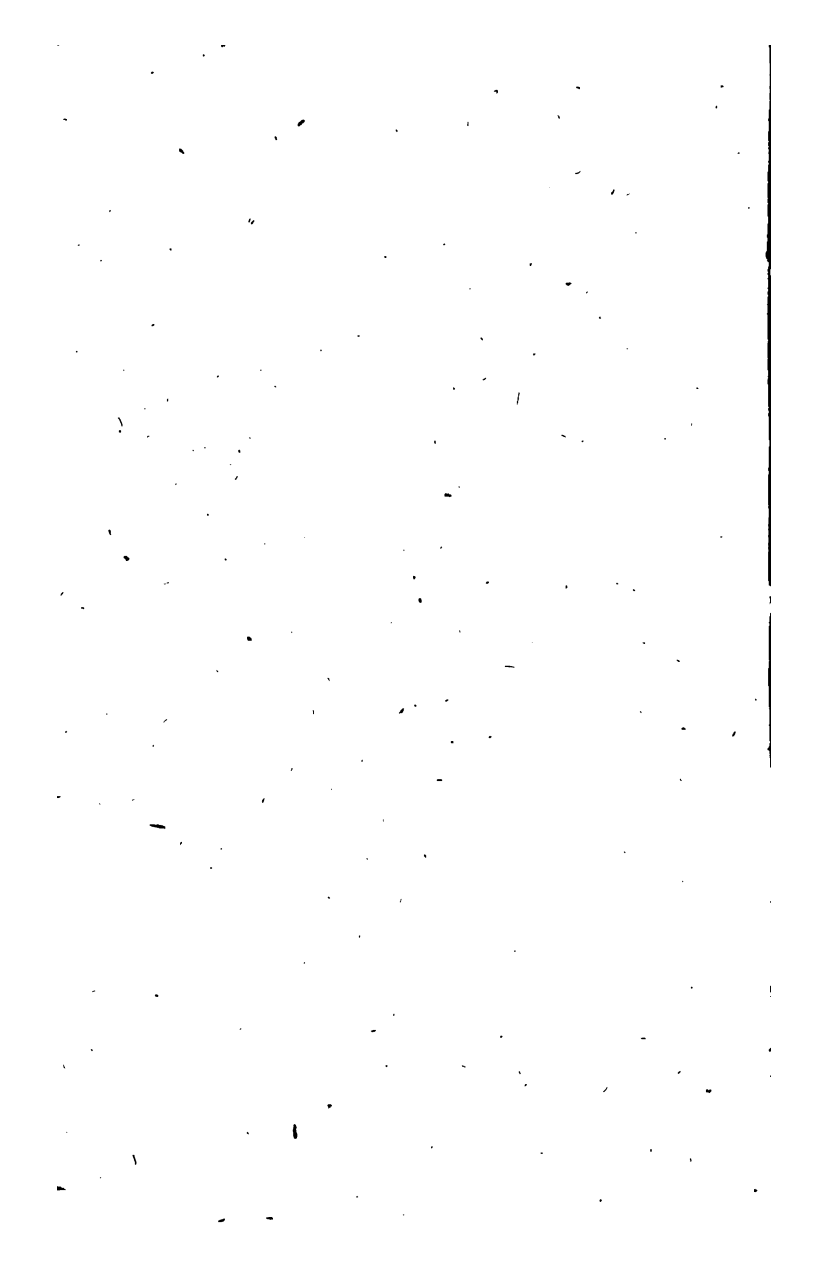
| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|-----------|-----------|-----------|------------|
| 71933.98 | 103553.03 | 143955.65 | 9.8569341 | 10.0151628 |
| 71913.77 | 103492.77 | 143912.31 | 9.8568121 | 10.0149100 |
| 71893.55 | 103432.54 | 143869.00 | 9.8566900 | 10.0146572 |
| 71873.33 | 103372.35 | 143825.74 | 9.8565678 | 10.0144044 |
| 71853.10 | 103312.20 | 143782.51 | 9.8564455 | 10.0141516 |
| 71832.87 | 103252.08 | 143739.32 | 9.8563232 | 10.0138988 |
| 71812.63 | 103191.99 | 143696.16 | 9.8562008 | 10.0136460 |
| 71792.38 | 103131.95 | 143653.05 | 9.8560784 | 10.0133932 |
| 71772.13 | 103071.94 | 143609.97 | 9.8559558 | 10.0131404 |
| 71751.87 | 103011.96 | 143566.93 | 9.8558332 | 10.0128877 |
| 71731.61 | 102952.03 | 143523.93 | 9.8557106 | 10.0126349 |
| 71711.34 | 102892.12 | 143480.97 | 9.8555878 | 10.0123821 |
| 71691.06 | 102832.26 | 143438.05 | 9.8554650 | 10.0121294 |
| 71670.78 | 102772.43 | 143395.16 | 9.8553421 | 10.0118766 |
| 71650.49 | 102712.63 | 143352.31 | 9.8552192 | 10.0116239 |
| 71630.19 | 102652.87 | 143309.50 | 9.8550961 | 10.0113711 |
| 71609.89 | 102593.15 | 143266.72 | 9.8549730 | 10.0111184 |
| 71589.58 | 102533.46 | 143223.99 | 9.8548499 | 10.0108656 |
| 71569.27 | 102473.81 | 143181.29 | 9.8547266 | 10.0106129 |
| 71548.95 | 102414.19 | 143138.63 | 9.8546033 | 10.0103601 |
| 71528.63 | 102354.61 | 143096.00 | 9.8544799 | 10.0101074 |
| 71508.30 | 102295.06 | 143053.42 | 9.8543564 | 10.0098547 |
| 71487.96 | 102235.55 | 143010.87 | 9.8542329 | 10.0096019 |
| 71467.62 | 102176.08 | 142968.36 | 9.8541093 | 10.0093492 |
| 71447.27 | 102116.64 | 142925.88 | 9.8539856 | 10.0090965 |
| 71426.91 | 102057.23 | 142883.44 | 9.8538619 | 10.0088438 |
| 71406.55 | 101997.86 | 142841.04 | 9.8537381 | 10.0085911 |
| 71386.18 | 101938.53 | 142798.68 | 9.8536142 | 10.0083384 |
| 71365.81 | 101879.23 | 142756.36 | 9.8534902 | 10.0080857 |
| 71345.43 | 101819.97 | 142714.07 | 9.8533662 | 10.0078330 |
| 71325.05 | 101760.74 | 142671.82 | 9.8532421 | 10.0075803 |

44 Grad.

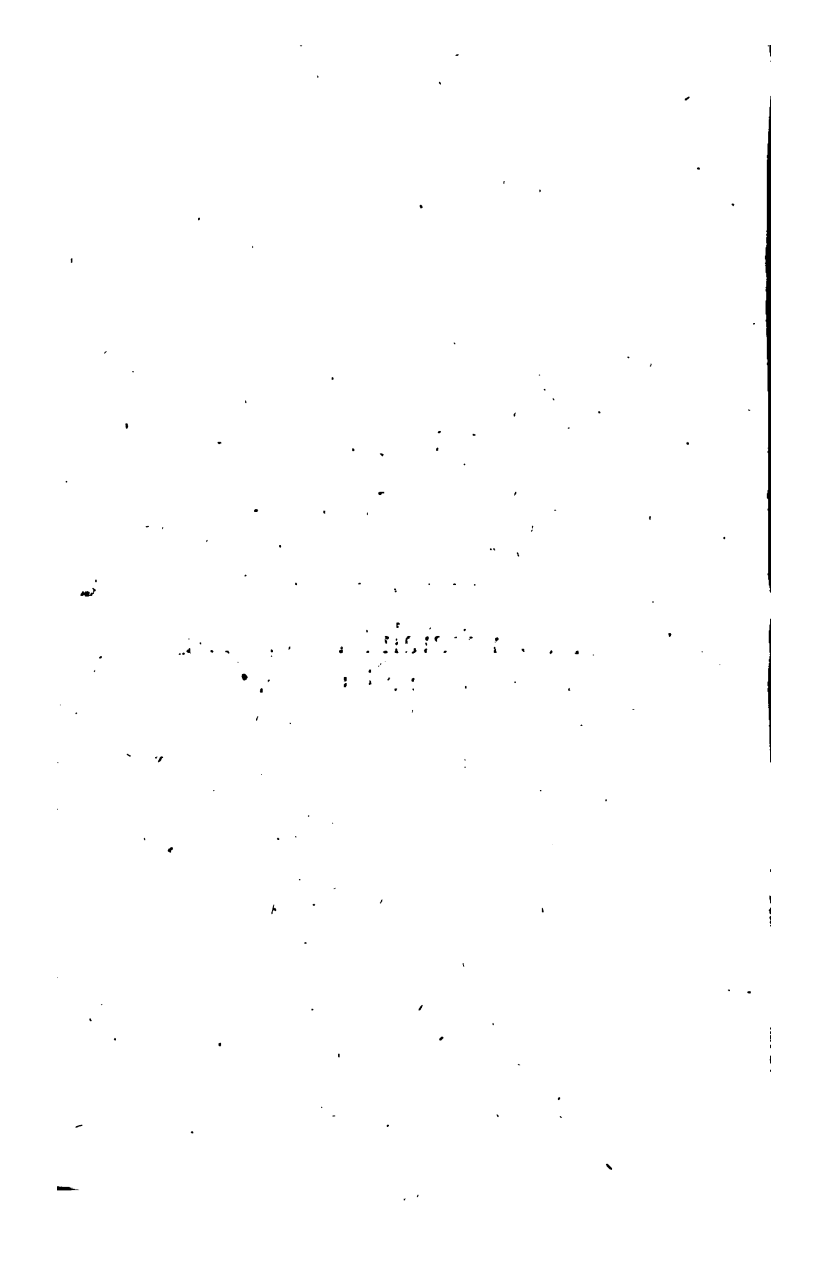
| Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|----------|-----------|-----------|-----------|------------|
| 70090.93 | 98269.73 | 140203.21 | 9.8456618 | 9.9924197 |
| 70111.67 | 98326.92 | 140243.30 | 9.8457903 | 9.9926724 |
| 70132.41 | 98384.15 | 140283.43 | 9.8459188 | 9.9929251 |
| 70153.14 | 98441.41 | 140323.60 | 9.8460471 | 9.9931778 |
| 70173.87 | 98498.71 | 140363.80 | 9.8461754 | 9.9934305 |
| 70194.59 | 98556.03 | 140404.03 | 9.8463036 | 9.9936832 |
| 70215.30 | 98613.39 | 140444.30 | 9.8464318 | 9.9939359 |
| 70236.01 | 98670.79 | 140484.60 | 9.8465599 | 9.9941886 |
| 70256.71 | 98728.21 | 140524.94 | 9.8466879 | 9.9944413 |
| 70277.41 | 98785.67 | 140565.32 | 9.8468158 | 9.9946940 |
| 70298.10 | 98843.16 | 140605.73 | 9.8469436 | 9.9949466 |
| 70318.79 | 98900.69 | 140646.17 | 9.8470714 | 9.9951993 |
| 70339.47 | 98958.25 | 140686.65 | 9.8471991 | 9.9954520 |
| 70360.14 | 99015.84 | 140727.17 | 9.8473267 | 9.9957047 |
| 70380.81 | 99073.46 | 140767.72 | 9.8474543 | 9.9959573 |
| 70401.47 | 99131.12 | 140808.31 | 9.8475817 | 9.9962100 |
| 70422.13 | 99188.81 | 140848.93 | 9.8477091 | 9.9964627 |
| 70442.78 | 99246.54 | 140889.58 | 9.8478365 | 9.9967154 |
| 70463.42 | 99304.29 | 140930.28 | 9.8479637 | 9.9969680 |
| 70484.06 | 99362.08 | 140971.00 | 9.8480909 | 9.9972207 |
| 70504.69 | 99419.91 | 141011.77 | 9.8482180 | 9.9974734 |
| 70525.32 | 99477.77 | 141052.56 | 9.8483450 | 9.9977260 |
| 70545.94 | 99535.66 | 141093.40 | 9.8484720 | 9.9979787 |
| 70566.55 | 99593.58 | 141134.27 | 9.8485989 | 9.9982314 |
| 70587.16 | 99651.54 | 141175.17 | 9.8487257 | 9.9984840 |
| 70607.76 | 99709.53 | 141216.11 | 9.8488524 | 9.9987367 |
| 70628.35 | 99767.56 | 141257.09 | 9.8489791 | 9.9989893 |
| 70648.94 | 99825.62 | 141298.10 | 9.8491057 | 9.9992420 |
| 70669.53 | 99883.71 | 141339.15 | 9.8492322 | 9.9994947 |
| 70690.11 | 99941.84 | 141380.24 | 9.8493586 | 9.9997473 |
| 70710.68 | 100000.00 | 141421.36 | 9.8494850 | 10.0000000 |

45 Grad.

| | Sinus | Tang. | Secant. | Log. Sin. | Log. Tang. |
|---|----------|-----------|-----------|-----------|------------|
| 0 | 71325.05 | 101760.74 | 142671.82 | 9.8532421 | 10.0075803 |
| 1 | 71304.66 | 101701.55 | 142629.61 | 9.8531179 | 10.0073276 |
| 2 | 71284.26 | 101642.39 | 142587.43 | 9.8529936 | 10.0070749 |
| 3 | 71263.85 | 101583.26 | 142545.29 | 9.8528693 | 10.0068222 |
| 4 | 71243.44 | 101524.17 | 142503.19 | 9.8527449 | 10.0065695 |
| 5 | 71223.02 | 101465.12 | 142461.12 | 9.8526204 | 10.0063168 |
| 6 | 71202.60 | 101406.10 | 142419.09 | 9.8524959 | 10.0060641 |
| 7 | 71182.17 | 101347.12 | 142377.10 | 9.8523713 | 10.0058114 |
| 8 | 71161.74 | 101288.17 | 142335.14 | 9.8522466 | 10.0055587 |
| 9 | 71141.30 | 101229.25 | 142293.23 | 9.8521218 | 10.0053060 |
| 0 | 71120.86 | 101170.37 | 142251.34 | 9.8519970 | 10.0050534 |
| 1 | 71100.41 | 101111.53 | 142209.50 | 9.8518721 | 10.0048007 |
| 2 | 71079.95 | 101052.72 | 142167.69 | 9.8517471 | 10.0045480 |
| 3 | 71059.48 | 100993.94 | 142125.92 | 9.8516220 | 10.0042953 |
| 4 | 71039.01 | 100935.20 | 142084.18 | 9.8514969 | 10.0040427 |
| 5 | 71018.54 | 100876.49 | 142042.48 | 9.8513717 | 10.0037900 |
| 6 | 70998.06 | 100817.82 | 142000.82 | 9.8512465 | 10.0035373 |
| 7 | 70977.57 | 100759.18 | 141959.19 | 9.8511211 | 10.0032846 |
| 8 | 70957.07 | 100700.58 | 141917.61 | 9.8509957 | 10.0030320 |
| 9 | 70936.57 | 100642.01 | 141876.05 | 9.8508702 | 10.0027793 |
| 0 | 70916.07 | 100583.47 | 141834.54 | 9.8507446 | 10.0025266 |
| 1 | 70895.56 | 100524.97 | 141793.05 | 9.8506190 | 10.0022740 |
| 2 | 70875.04 | 100466.51 | 141751.61 | 9.8504933 | 10.0020213 |
| 3 | 70854.51 | 100408.07 | 141710.20 | 9.8503675 | 10.0017686 |
| 4 | 70833.98 | 100349.68 | 141668.83 | 9.8502417 | 10.0015160 |
| 5 | 70813.45 | 100291.31 | 141627.49 | 9.8501157 | 10.0012633 |
| 6 | 70792.91 | 100232.98 | 141586.19 | 9.8499897 | 10.0010107 |
| 7 | 70772.36 | 100174.69 | 141544.93 | 9.8498637 | 10.0007580 |
| 8 | 70751.80 | 100116.42 | 141503.70 | 9.8497375 | 10.0005053 |
| 9 | 70731.24 | 100058.19 | 141462.51 | 9.8496113 | 10.0002527 |
| 0 | 70710.68 | 100000.00 | 141421.36 | 9.8494850 | 10.0000000 |



H. BRIGGII
TABULA
LOGARITHMORUM,
Pro numeris naturali serie crescen-
tibus ab Unitate ad 10000.



| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|----|-----------|-----|-----------|
| 10 | 0.0000000 | 34 | 1.5314789 | 67 | 1.8260748 |
| 20 | 0.3010300 | 35 | 1.5440680 | 68 | 1.8325089 |
| 30 | 0.4771212 | 36 | 1.5563025 | 69 | 1.8388491 |
| 40 | 0.6020600 | 37 | 1.5682017 | 70 | 1.8450980 |
| 50 | 0.6989700 | 38 | 1.5797836 | 71 | 1.8512583 |
| 60 | 0.7781512 | 39 | 1.5910646 | 72 | 1.8573325 |
| 70 | 0.8450980 | 40 | 1.6020600 | 73 | 1.8633229 |
| 80 | 0.9030900 | 41 | 1.6127839 | 74 | 1.8692317 |
| 90 | 0.9542425 | 42 | 1.6232493 | 75 | 1.8750613 |
| 100 | 1.0000000 | 43 | 1.6334685 | 76 | 1.8808136 |
| 110 | 1.0413927 | 44 | 1.6434527 | 77 | 1.8864907 |
| 120 | 1.0791812 | 45 | 1.6532125 | 78 | 1.8920946 |
| 130 | 1.1139433 | 46 | 1.6627578 | 79 | 1.8976271 |
| 140 | 1.1461280 | 47 | 1.6720979 | 80 | 1.9030900 |
| 150 | 1.1760913 | 48 | 1.6812412 | 81 | 1.9084850 |
| 160 | 1.2041200 | 49 | 1.6901961 | 82 | 1.9138138 |
| 170 | 1.2304489 | 50 | 1.6989700 | 83 | 1.9190781 |
| 180 | 1.2552725 | 51 | 1.7075702 | 84 | 1.9242793 |
| 190 | 1.2787536 | 52 | 1.7160033 | 85 | 1.9294189 |
| 200 | 1.3010300 | 53 | 1.7242759 | 86 | 1.9344984 |
| 210 | 1.3222193 | 54 | 1.7323938 | 87 | 1.9395192 |
| 220 | 1.3424227 | 55 | 1.7403627 | 88 | 1.9444827 |
| 230 | 1.3617278 | 56 | 1.7481830 | 89 | 1.9493900 |
| 240 | 1.3802112 | 57 | 1.7558748 | 90 | 1.9542425 |
| 250 | 1.3979400 | 58 | 1.7634280 | 91 | 1.9590414 |
| 260 | 1.4149733 | 59 | 1.7708520 | 92 | 1.9637878 |
| 270 | 1.4313638 | 60 | 1.7781512 | 93 | 1.9684829 |
| 280 | 1.4471580 | 61 | 1.7853298 | 94 | 1.9731278 |
| 290 | 1.4623980 | 62 | 1.7923917 | 95 | 1.9777236 |
| 300 | 1.4771212 | 63 | 1.7993405 | 96 | 1.9822712 |
| 310 | 1.4913617 | 64 | 1.8061800 | 97 | 1.9867717 |
| 320 | 1.5051500 | 65 | 1.8129133 | 98 | 1.9912761 |
| 330 | 1.5185139 | 66 | 1.8195439 | 99 | 1.9956352 |
| 340 | 1.5314789 | 67 | 1.8260748 | 100 | 2.0000000 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 101 | 2.0043214 | 134 | 2.1271048 | 167 | 2.2227165 |
| 102 | 2.0086002 | 135 | 2.1303338 | 168 | 2.2253093 |
| 103 | 2.0128372 | 136 | 2.1335389 | 169 | 2.2278867 |
| 104 | 2.0170333 | 137 | 2.1367206 | 170 | 2.2304489 |
| 105 | 2.0211893 | 138 | 2.1398791 | 171 | 2.2329961 |
| 106 | 2.0253059 | 139 | 2.1430148 | 172 | 2.2355284 |
| 107 | 2.0293838 | 140 | 2.1461280 | 173 | 2.2380461 |
| 108 | 2.0334238 | 141 | 2.1492191 | 174 | 2.2405492 |
| 109 | 2.0374265 | 142 | 2.1522883 | 175 | 2.2430380 |
| 110 | 2.0413927 | 143 | 2.1553360 | 176 | 2.2455127 |
| 111 | 2.0453230 | 144 | 2.1583625 | 177 | 2.2479733 |
| 112 | 2.0492180 | 145 | 2.1613680 | 178 | 2.2504200 |
| 113 | 2.0530784 | 146 | 2.1643528 | 179 | 2.2528530 |
| 114 | 2.0569048 | 147 | 2.1673173 | 180 | 2.2552725 |
| 115 | 2.0606978 | 148 | 2.1702617 | 181 | 2.2576786 |
| 116 | 2.0644580 | 149 | 2.1731863 | 182 | 2.2600714 |
| 117 | 2.0681859 | 150 | 2.1760913 | 183 | 2.2624511 |
| 118 | 2.0718820 | 151 | 2.1789769 | 184 | 2.2648178 |
| 119 | 2.0755470 | 152 | 2.1818436 | 185 | 2.2671717 |
| 120 | 2.0791812 | 153 | 2.1846914 | 186 | 2.2695129 |
| 121 | 2.0827854 | 154 | 2.1875207 | 187 | 2.2718416 |
| 122 | 2.0863598 | 155 | 2.1903317 | 188 | 2.2741578 |
| 123 | 2.0899051 | 156 | 2.1931246 | 189 | 2.2764618 |
| 124 | 2.0934217 | 157 | 2.1958996 | 190 | 2.2787536 |
| 125 | 2.0969100 | 158 | 2.1986571 | 191 | 2.2810334 |
| 126 | 2.1003705 | 159 | 2.2013971 | 192 | 2.2833012 |
| 127 | 2.1038037 | 160 | 2.2041200 | 193 | 2.2855573 |
| 128 | 2.1072100 | 161 | 2.2068259 | 194 | 2.2878017 |
| 129 | 2.1105897 | 162 | 2.2095150 | 195 | 2.2900346 |
| 130 | 2.1139433 | 163 | 2.2121876 | 196 | 2.2922561 |
| 131 | 2.1172713 | 164 | 2.2148438 | 197 | 2.2944662 |
| 132 | 2.1205739 | 165 | 2.2174839 | 198 | 2.2966652 |
| 133 | 2.1238516 | 166 | 2.2201081 | 199 | 2.2988531 |
| 134 | 2.1271048 | 167 | 2.2227165 | 200 | 2.3010300 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 201 | 2.3031961 | 234 | 2.3692159 | 267 | 2.4265113 |
| 202 | 2.3053514 | 235 | 2.3710679 | 268 | 2.4281348 |
| 203 | 2.3074960 | 236 | 2.3729120 | 269 | 2.4297523 |
| 204 | 2.3096302 | 237 | 2.3747483 | 270 | 2.4313638 |
| 205 | 2.3117539 | 238 | 2.3765770 | 271 | 2.4329693 |
| 206 | 2.3138672 | 239 | 2.3783979 | 272 | 2.4345689 |
| 207 | 2.3159703 | 240 | 2.3802112 | 273 | 2.4361626 |
| 208 | 2.3180633 | 241 | 2.3820170 | 274 | 2.4377506 |
| 209 | 2.3201463 | 242 | 2.3838154 | 275 | 2.4393327 |
| 210 | 2.3222193 | 243 | 2.3856063 | 276 | 2.4409091 |
| 211 | 2.3242824 | 244 | 2.3873898 | 277 | 2.4424798 |
| 212 | 2.3263359 | 245 | 2.3891661 | 278 | 2.4440448 |
| 213 | 2.3283796 | 246 | 2.3909351 | 279 | 2.4456042 |
| 214 | 2.3304138 | 247 | 2.3926969 | 280 | 2.4471580 |
| 215 | 2.3324385 | 248 | 2.3944517 | 281 | 2.4487063 |
| 216 | 2.3344537 | 249 | 2.3961993 | 282 | 2.4502491 |
| 217 | 2.3364597 | 250 | 2.3979400 | 283 | 2.4517864 |
| 218 | 2.3384565 | 251 | 2.3996737 | 284 | 2.4533183 |
| 219 | 2.3404441 | 252 | 2.4014005 | 285 | 2.4548449 |
| 220 | 2.3424227 | 253 | 2.4031205 | 286 | 2.4563660 |
| 221 | 2.3443923 | 254 | 2.4048337 | 287 | 2.4578819 |
| 222 | 2.3463530 | 255 | 2.4065402 | 288 | 2.4593925 |
| 223 | 2.3483049 | 256 | 2.4082400 | 289 | 2.4608978 |
| 224 | 2.3502480 | 257 | 2.4099331 | 290 | 2.4623980 |
| 225 | 2.3521825 | 258 | 2.4116197 | 291 | 2.4638930 |
| 226 | 2.3541084 | 259 | 2.4132998 | 292 | 2.4653828 |
| 227 | 2.3560259 | 260 | 2.4149733 | 293 | 2.4668676 |
| 228 | 2.3579348 | 261 | 2.4166405 | 294 | 2.4683473 |
| 229 | 2.3598355 | 262 | 2.4183013 | 295 | 2.4698220 |
| 230 | 2.3617278 | 263 | 2.4199557 | 296 | 2.4712917 |
| 231 | 2.3636120 | 264 | 2.4216039 | 297 | 2.4727564 |
| 232 | 2.3654880 | 265 | 2.4232459 | 298 | 2.4742163 |
| 233 | 2.3673559 | 266 | 2.4248816 | 299 | 2.4756712 |
| 234 | 2.3692159 | 267 | 2.4265113 | 300 | 2.4771212 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|-----|------------|-----|------------|-----|------------|
| 301 | 2.4785665 | 334 | 2.5237465 | 367 | 2.5646661 |
| 302 | 2.4800069 | 335 | 2.5250448 | 368 | 2.5658478 |
| 303 | 2.4814426 | 336 | 2.5263393 | 369 | 2.5670264 |
| 304 | 2.4828736 | 337 | 2.5276299 | 370 | 2.5682017 |
| 305 | 2.4842998 | 338 | 2.5289167 | 371 | 2.5693739 |
| 306 | 2.4857214 | 339 | 2.5301997 | 372 | 2.5705429 |
| 307 | 2.4871384 | 340 | 2.5314789 | 373 | 2.5717088 |
| 308 | 2.4885507 | 341 | 2.5327544 | 374 | 2.5728716 |
| 309 | 2.4899585 | 342 | 2.5340261 | 375 | 2.5740313 |
| 310 | 2.4913617 | 343 | 2.5352941 | 376 | 2.5751878 |
| 311 | 2.4927604 | 344 | 2.5365584 | 377 | 2.5763413 |
| 312 | 2.4941546 | 345 | 2.5378191 | 378 | 2.5774918 |
| 313 | 2.4955443 | 346 | 2.5390761 | 379 | 2.5786392 |
| 314 | 2.4969296 | 347 | 2.5403295 | 380 | 2.5797836 |
| 315 | 2.4983105 | 348 | 2.5415792 | 381 | 2.5809250 |
| 316 | 2.4996871 | 349 | 2.5428254 | 382 | 2.5820634 |
| 317 | 2.5010593 | 350 | 2.5440680 | 383 | 2.5831988 |
| 318 | 2.5024271 | 351 | 2.5453071 | 384 | 2.5843312 |
| 319 | 2.5037907 | 352 | 2.5465427 | 385 | 2.5854607 |
| 320 | 2.5051500 | 353 | 2.5477747 | 386 | 2.5865873 |
| 321 | 2.5065050 | 354 | 2.5490033 | 387 | 2.5877110 |
| 322 | 2.5078559 | 355 | 2.5502283 | 388 | 2.5888317 |
| 323 | 2.5092025 | 356 | 2.5514500 | 389 | 2.5899496 |
| 324 | 2.5105450 | 357 | 2.5526682 | 390 | 2.5910646 |
| 325 | 2.5118834 | 358 | 2.5538830 | 391 | 2.5921768 |
| 326 | 2.5132176 | 359 | 2.5550944 | 392 | 2.5932861 |
| 327 | 2.5145477 | 360 | 2.5563025 | 393 | 2.5943925 |
| 328 | 2.5158738 | 361 | 2.5575072 | 394 | 2.5954962 |
| 329 | 2.5171959 | 362 | 2.5587686 | 395 | 2.5965971 |
| 330 | 2.5185139 | 363 | 2.5599066 | 396 | 2.5976952 |
| 331 | 2.5198280 | 364 | 2.5611014 | 397 | 2.5987905 |
| 332 | 2.5211381 | 365 | 2.5622929 | 398 | 2.5998831 |
| 333 | 2.5224442 | 366 | 2.5634811 | 399 | 2.6009729 |
| 334 | 2.5237465 | 367 | 2.5646661 | 400 | 2.6020600 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 401 | 2.6031444 | 434 | 2.6374897 | 467 | 2.6693169 |
| 402 | 2.6042260 | 435 | 2.6384893 | 468 | 2.6702458 |
| 403 | 2.6053050 | 436 | 2.6394865 | 469 | 2.6711728 |
| 404 | 2.6063814 | 437 | 2.6404814 | 470 | 2.6720979 |
| 405 | 2.6074550 | 438 | 2.6414741 | 471 | 2.6730209 |
| 406 | 2.6085260 | 439 | 2.6424645 | 472 | 2.6739420 |
| 407 | 2.6095944 | 440 | 2.6434527 | 473 | 2.6748611 |
| 408 | 2.6106602 | 441 | 2.6444386 | 474 | 2.6757783 |
| 409 | 2.6117233 | 442 | 2.6454223 | 475 | 2.6766936 |
| 410 | 2.6127839 | 443 | 2.6464037 | 476 | 2.6776069 |
| 411 | 2.6138418 | 444 | 2.6473830 | 477 | 2.6785184 |
| 412 | 2.6148972 | 445 | 2.6483600 | 478 | 2.6794279 |
| 413 | 2.6159500 | 446 | 2.6493349 | 479 | 2.6803355 |
| 414 | 2.6170003 | 447 | 2.6503075 | 480 | 2.6812412 |
| 415 | 2.6180481 | 448 | 2.6512780 | 481 | 2.6821451 |
| 416 | 2.6190933 | 449 | 2.6522463 | 482 | 2.6830470 |
| 417 | 2.6201360 | 450 | 2.6532125 | 483 | 2.6839471 |
| 418 | 2.6211763 | 451 | 2.6541765 | 484 | 2.6848454 |
| 419 | 2.6222140 | 452 | 2.6551384 | 485 | 2.6857417 |
| 420 | 2.6232493 | 453 | 2.6560982 | 486 | 2.6866363 |
| 421 | 2.6242821 | 454 | 2.6570558 | 487 | 2.6875290 |
| 422 | 2.6253124 | 455 | 2.6580114 | 488 | 2.6884198 |
| 423 | 2.6273404 | 456 | 2.6589648 | 489 | 2.6893089 |
| 424 | 2.6273659 | 457 | 2.6599162 | 490 | 2.6901961 |
| 425 | 2.6283889 | 458 | 2.6608655 | 491 | 2.6910815 |
| 426 | 2.6294096 | 459 | 2.6618127 | 492 | 2.6919651 |
| 427 | 2.6304279 | 460 | 2.6627578 | 493 | 2.6928469 |
| 428 | 2.6314438 | 461 | 2.6637009 | 494 | 2.6937269 |
| 429 | 2.6324573 | 462 | 2.6646420 | 495 | 2.6946052 |
| 430 | 2.6334685 | 463 | 2.6655810 | 496 | 2.6954817 |
| 431 | 2.6344773 | 464 | 2.6665180 | 497 | 2.6963564 |
| 432 | 2.6354837 | 465 | 2.6674529 | 498 | 2.6972293 |
| 433 | 2.6364879 | 466 | 2.6683859 | 499 | 2.6981005 |
| 434 | 2.6374897 | 467 | 2.6693169 | 500 | 2.6989700 |

| N. | Logarith. | N. | Logarith.* | N. | Logarith. |
|-----|-----------|-----|------------|-----|-----------|
| 501 | 2.6998377 | 534 | 2.7275413 | 567 | 2.7535831 |
| 502 | 2.7007037 | 535 | 2.7283538 | 568 | 2.7543483 |
| 503 | 2.7015680 | 536 | 2.7291648 | 569 | 2.7551123 |
| 504 | 2.7024305 | 537 | 2.7299743 | 570 | 2.7558748 |
| 505 | 2.7032914 | 538 | 2.7307823 | 571 | 2.7566361 |
| 506 | 2.7041505 | 539 | 2.7315888 | 572 | 2.7573960 |
| 507 | 2.7050080 | 540 | 2.7323938 | 573 | 2.7581546 |
| 508 | 2.7058637 | 541 | 2.7331973 | 574 | 2.7589119 |
| 509 | 2.7067178 | 542 | 2.7339993 | 575 | 2.7596678 |
| 510 | 2.7075702 | 543 | 2.7347998 | 576 | 2.7604225 |
| 511 | 2.7084209 | 544 | 2.7355989 | 577 | 2.7611758 |
| 512 | 2.7092700 | 545 | 2.7363965 | 578 | 2.7619278 |
| 513 | 2.7101174 | 546 | 2.7371926 | 579 | 2.7626786 |
| 514 | 2.7109631 | 547 | 2.7379873 | 580 | 2.7634280 |
| 515 | 2.7118072 | 548 | 2.7387806 | 581 | 2.7641761 |
| 516 | 2.7126497 | 549 | 2.7395723 | 582 | 2.7649230 |
| 517 | 2.7134905 | 550 | 2.7403627 | 583 | 2.7656685 |
| 518 | 2.7143298 | 551 | 2.7411516 | 584 | 2.7664128 |
| 519 | 2.7151674 | 552 | 2.7419391 | 585 | 2.7671559 |
| 520 | 2.7160033 | 553 | 2.7427251 | 586 | 2.7678976 |
| 521 | 2.7168377 | 554 | 2.7435098 | 587 | 2.7686381 |
| 522 | 2.7176705 | 555 | 2.7442930 | 588 | 2.7693773 |
| 523 | 2.7185017 | 556 | 2.7450748 | 589 | 2.7701153 |
| 524 | 2.7193313 | 557 | 2.7458552 | 590 | 2.7708520 |
| 525 | 2.7201593 | 558 | 2.7466342 | 591 | 2.7715875 |
| 526 | 2.7209857 | 559 | 2.7474118 | 592 | 2.7723217 |
| 527 | 2.7218106 | 560 | 2.7481880 | 593 | 2.7730547 |
| 528 | 2.7226339 | 561 | 2.7489629 | 594 | 2.7737864 |
| 529 | 2.7234557 | 562 | 2.7497363 | 595 | 2.7745170 |
| 530 | 2.7242759 | 563 | 2.7505084 | 596 | 2.7752463 |
| 531 | 2.7250945 | 564 | 2.7512791 | 597 | 2.7759743 |
| 532 | 2.7259116 | 565 | 2.7520484 | 598 | 2.7767012 |
| 533 | 2.7267272 | 566 | 2.7528164 | 599 | 2.7774268 |
| 534 | 2.7275413 | 567 | 2.7535831 | 600 | 2.7781512 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 601 | 2.7788745 | 634 | 2.8020893 | 667 | 2.8241258 |
| 602 | 2.7795965 | 635 | 2.8027737 | 668 | 2.8247765 |
| 603 | 2.7803173 | 636 | 2.8034571 | 669 | 2.8254261 |
| 604 | 2.7810369 | 637 | 2.8041394 | 670 | 2.8260748 |
| 605 | 2.7817554 | 638 | 2.8048207 | 671 | 2.8267225 |
| 606 | 2.7824726 | 639 | 2.8055009 | 672 | 2.8273693 |
| 607 | 2.7831887 | 640 | 2.8061800 | 673 | 2.8280151 |
| 608 | 2.7839036 | 641 | 2.8068580 | 674 | 2.8286599 |
| 609 | 2.7846173 | 642 | 2.8075350 | 675 | 2.8293038 |
| 610 | 2.7853298 | 643 | 2.8082110 | 676 | 2.8299467 |
| 611 | 2.7860412 | 644 | 2.8088859 | 677 | 2.8305887 |
| 612 | 2.7867514 | 645 | 2.8095597 | 678 | 2.8312298 |
| 613 | 2.7874605 | 646 | 2.8102325 | 679 | 2.8318699 |
| 614 | 2.7881684 | 647 | 2.8109043 | 680 | 2.8325089 |
| 615 | 2.7888751 | 648 | 2.8115750 | 681 | 2.8331471 |
| 616 | 2.7895807 | 649 | 2.8122447 | 682 | 2.8337844 |
| 617 | 2.7902852 | 650 | 2.8129134 | 683 | 2.8344207 |
| 618 | 2.7909885 | 651 | 2.8135810 | 684 | 2.8350561 |
| 619 | 2.7916906 | 652 | 2.8142476 | 685 | 2.8356906 |
| 620 | 2.7923917 | 653 | 2.8149132 | 686 | 2.8363241 |
| 621 | 2.7930916 | 654 | 2.8155777 | 687 | 2.8369567 |
| 622 | 2.7937904 | 655 | 2.8162413 | 688 | 2.8375884 |
| 623 | 2.7944880 | 656 | 2.8169038 | 689 | 2.8382192 |
| 624 | 2.7951846 | 657 | 2.8175654 | 690 | 2.8388491 |
| 625 | 2.7958800 | 658 | 2.8182259 | 691 | 2.8394780 |
| 626 | 2.7965744 | 659 | 2.8188854 | 692 | 2.8401061 |
| 627 | 2.7972675 | 660 | 2.8195439 | 693 | 2.8407332 |
| 628 | 2.7979596 | 661 | 2.8202015 | 694 | 2.8413595 |
| 629 | 2.7986506 | 662 | 2.8208580 | 695 | 2.8419848 |
| 630 | 2.7993405 | 663 | 2.8215135 | 696 | 2.8426092 |
| 631 | 2.8000294 | 664 | 2.8221681 | 697 | 2.8432328 |
| 632 | 2.8007171 | 665 | 2.8228216 | 698 | 2.8438554 |
| 633 | 2.8014037 | 666 | 2.8234742 | 699 | 2.8444772 |
| 634 | 2.8020893 | 667 | 2.8241258 | 700 | 2.8450980 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 701 | 2.8457180 | 734 | 2.8656961 | 767 | 2.88479 |
| 702 | 2.8463371 | 735 | 2.8662873 | 768 | 2.88536 |
| 703 | 2.8469553 | 736 | 2.8668778 | 769 | 2.88592 |
| 704 | 2.8475727 | 737 | 2.8674675 | 770 | 2.88649 |
| 705 | 2.8481891 | 738 | 2.8680564 | 771 | 2.88705 |
| 706 | 2.8488047 | 739 | 2.8686444 | 772 | 2.88761 |
| 707 | 2.8494194 | 740 | 2.8692317 | 773 | 2.88817 |
| 708 | 2.8500333 | 741 | 2.8698182 | 774 | 2.88874 |
| 709 | 2.8506462 | 742 | 2.8704039 | 775 | 2.88930 |
| 710 | 2.8512583 | 743 | 2.8709888 | 776 | 2.88986 |
| 711 | 2.8518696 | 744 | 2.8715729 | 777 | 2.89042 |
| 712 | 2.8524800 | 745 | 2.8721563 | 778 | 2.89097 |
| 713 | 2.8530895 | 746 | 2.8727388 | 779 | 2.89153 |
| 714 | 2.8536982 | 747 | 2.8733206 | 780 | 2.89209 |
| 715 | 2.8533060 | 748 | 2.8739016 | 781 | 2.89265 |
| 716 | 2.8545130 | 749 | 2.8744818 | 782 | 2.89320 |
| 717 | 2.8555191 | 750 | 2.8750613 | 783 | 2.89376 |
| 718 | 2.8561244 | 751 | 2.8756399 | 784 | 2.89431 |
| 719 | 2.8567289 | 752 | 2.8762178 | 785 | 2.89486 |
| 720 | 2.8573325 | 753 | 2.8767950 | 786 | 2.89542 |
| 721 | 2.8579353 | 754 | 2.8773713 | 787 | 2.89597 |
| 722 | 2.8585372 | 755 | 2.8779469 | 788 | 2.89652 |
| 723 | 2.8591383 | 756 | 2.8785218 | 789 | 2.89707 |
| 724 | 2.8597386 | 757 | 2.8790959 | 790 | 2.89762 |
| 725 | 2.8603380 | 758 | 2.8796692 | 791 | 2.89817 |
| 726 | 2.8609366 | 759 | 2.8802418 | 792 | 2.89872 |
| 727 | 2.8615344 | 760 | 2.8808136 | 793 | 2.89927 |
| 728 | 2.8621314 | 761 | 2.8813847 | 794 | 2.89982 |
| 729 | 2.8627275 | 762 | 2.8819550 | 795 | 2.90036 |
| 730 | 2.8633229 | 763 | 2.8825245 | 796 | 2.90091 |
| 731 | 2.8639174 | 764 | 2.8830934 | 797 | 2.90145 |
| 732 | 2.8645111 | 765 | 2.8836614 | 798 | 2.90200 |
| 733 | 2.8651040 | 766 | 2.8842288 | 799 | 2.90254 |
| 734 | 2.8656961 | 767 | 2.8847954 | 800 | 2.90309 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|-----|-----------|-----|-----------|
| 801 | 2.9036325 | 834 | 2.9211660 | 867 | 2.9380191 |
| 802 | 2.9041744 | 835 | 2.9216865 | 868 | 2.9385197 |
| 803 | 2.9047155 | 836 | 2.9222063 | 869 | 2.9390198 |
| 804 | 2.9052560 | 837 | 2.9227254 | 870 | 2.9395192 |
| 805 | 2.9057959 | 838 | 2.9232440 | 871 | 2.9400181 |
| 806 | 2.9063350 | 839 | 2.9237620 | 872 | 2.9405165 |
| 807 | 2.9068735 | 840 | 2.9242793 | 873 | 2.9410142 |
| 808 | 2.9074114 | 841 | 2.9247960 | 874 | 2.9415114 |
| 809 | 2.9079485 | 842 | 2.9253121 | 875 | 2.9420080 |
| 810 | 2.9084850 | 843 | 2.9258276 | 876 | 2.9425041 |
| 811 | 2.9090208 | 844 | 2.9263424 | 877 | 2.9429996 |
| 812 | 2.9095560 | 845 | 2.9268567 | 878 | 2.9434945 |
| 813 | 2.9100905 | 846 | 2.9273704 | 879 | 2.9439889 |
| 814 | 2.9106244 | 847 | 2.9278834 | 880 | 2.9444827 |
| 815 | 2.9111576 | 848 | 2.9283958 | 881 | 2.9449759 |
| 816 | 2.9116901 | 849 | 2.9289077 | 882 | 2.9454686 |
| 817 | 2.9122220 | 850 | 2.9294189 | 883 | 2.9459607 |
| 818 | 2.9127533 | 851 | 2.9299296 | 884 | 2.9464523 |
| 819 | 2.9132839 | 852 | 2.9304396 | 885 | 2.9469433 |
| 820 | 2.9138138 | 853 | 2.9309490 | 886 | 2.9474337 |
| 821 | 2.9143431 | 854 | 2.9314579 | 887 | 2.9479236 |
| 822 | 2.9148718 | 855 | 2.9319661 | 888 | 2.9484130 |
| 823 | 2.9153998 | 856 | 2.9324738 | 889 | 2.9489018 |
| 824 | 2.9159272 | 857 | 2.9329808 | 890 | 2.9493900 |
| 825 | 2.9164539 | 858 | 2.9334873 | 891 | 2.9498777 |
| 826 | 2.9169800 | 859 | 2.9339932 | 892 | 2.9503648 |
| 827 | 2.9175055 | 860 | 2.9344984 | 893 | 2.9508514 |
| 828 | 2.9180303 | 861 | 2.9350031 | 894 | 2.9513375 |
| 829 | 2.9185545 | 862 | 2.9355073 | 895 | 2.9518230 |
| 830 | 2.9190781 | 863 | 2.9360108 | 896 | 2.9523080 |
| 831 | 2.9196010 | 864 | 2.9365137 | 897 | 2.9527924 |
| 832 | 2.9201233 | 865 | 2.9370161 | 898 | 2.9532763 |
| 833 | 2.9206450 | 866 | 2.9375179 | 899 | 2.9537597 |
| 834 | 2.9211660 | 867 | 2.9380191 | 900 | 2.9542425 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|-----|-----------|------|-----------|
| 901 | 2.9547248 | 934 | 2.9703469 | 967 | 2.985426 |
| 902 | 2.9552065 | 935 | 2.9708116 | 968 | 2.985875 |
| 903 | 2.9556877 | 936 | 2.9712758 | 969 | 2.986323 |
| 904 | 2.9561684 | 937 | 2.9717396 | 970 | 2.986771 |
| 905 | 2.9566486 | 938 | 2.9722028 | 971 | 2.987219 |
| 906 | 2.9571282 | 939 | 2.9726656 | 972 | 2.987666 |
| 907 | 2.9576073 | 940 | 2.9731278 | 973 | 2.988112 |
| 908 | 2.9580858 | 941 | 2.9735896 | 974 | 2.988558 |
| 909 | 2.9585639 | 942 | 2.9740509 | 975 | 2.989004 |
| 910 | 2.9590414 | 943 | 2.9745117 | 976 | 2.989449 |
| 911 | 2.9595184 | 944 | 2.9749720 | 977 | 2.989894 |
| 912 | 2.9599948 | 945 | 2.9754318 | 978 | 2.990338 |
| 913 | 2.9604708 | 946 | 2.9758911 | 979 | 2.990782 |
| 914 | 2.9609462 | 947 | 2.9763500 | 980 | 2.991226 |
| 915 | 2.9614211 | 948 | 2.9768083 | 981 | 2.991669 |
| 916 | 2.9618955 | 949 | 2.9772662 | 982 | 2.992111 |
| 917 | 2.9623693 | 950 | 2.9777236 | 983 | 2.992553 |
| 918 | 2.9628427 | 951 | 2.9781805 | 984 | 2.992995 |
| 919 | 2.9633155 | 952 | 2.9786369 | 985 | 2.993436 |
| 920 | 2.9637878 | 953 | 2.9790929 | 986 | 2.993876 |
| 921 | 2.9642596 | 954 | 2.9795484 | 987 | 2.994317 |
| 922 | 2.9647309 | 955 | 2.9800034 | 988 | 2.994756 |
| 923 | 2.9652017 | 956 | 2.9804579 | 989 | 2.995196 |
| 924 | 2.9656720 | 957 | 2.9809119 | 990 | 2.995635 |
| 925 | 2.9661417 | 958 | 2.9813655 | 991 | 2.996073 |
| 926 | 2.9666110 | 959 | 2.9818186 | 992 | 2.996511 |
| 927 | 2.9670797 | 960 | 2.9822712 | 993 | 2.996949 |
| 928 | 2.9675480 | 961 | 2.9827234 | 994 | 2.997386 |
| 929 | 2.9680157 | 962 | 2.9831751 | 995 | 2.997823 |
| 930 | 2.9684829 | 963 | 2.9836263 | 996 | 2.998259 |
| 931 | 2.9689497 | 964 | 2.9840770 | 997 | 2.998695 |
| 932 | 2.9694159 | 965 | 2.9845273 | 998 | 2.999130 |
| 933 | 2.9698816 | 966 | 2.9849771 | 999 | 2.999565 |
| 934 | 2.9703469 | 967 | 2.9854265 | 1000 | 3.000000 |

| N. | Logarithm. | N. | Logarithm. | N. | Logarithm. |
|-----|------------|------|------------|------|------------|
| 001 | 3.0004341 | 1034 | 3.0145205 | 1067 | 3.0281644 |
| 002 | 3.0008677 | 1035 | 3.0149403 | 1068 | 3.0285712 |
| 003 | 3.0013009 | 1036 | 3.0153597 | 1069 | 3.0289777 |
| 004 | 3.0017337 | 1037 | 3.0157787 | 1070 | 3.0293838 |
| 005 | 3.0021661 | 1038 | 3.0161973 | 1071 | 3.0297895 |
| 006 | 3.0025980 | 1039 | 3.0166155 | 1072 | 3.0301948 |
| 007 | 3.0030295 | 1040 | 3.0170333 | 1073 | 3.0305997 |
| 008 | 3.0034605 | 1041 | 3.0174507 | 1074 | 3.0310043 |
| 009 | 3.0038912 | 1042 | 3.0178677 | 1075 | 3.0314085 |
| 010 | 3.0043214 | 1043 | 3.0182843 | 1076 | 3.0318123 |
| 011 | 3.0047511 | 1044 | 3.0187005 | 1077 | 3.0322157 |
| 012 | 3.0051805 | 1045 | 3.0191163 | 1078 | 3.0326188 |
| 013 | 3.0056094 | 1046 | 3.0195317 | 1079 | 3.0330214 |
| 014 | 3.0060379 | 1047 | 3.0199467 | 1080 | 3.0334237 |
| 015 | 3.0064660 | 1048 | 3.0203613 | 1081 | 3.0338257 |
| 016 | 3.0068937 | 1049 | 3.0207755 | 1082 | 3.8342273 |
| 017 | 3.0073209 | 1050 | 3.0211893 | 1083 | 3.0346284 |
| 018 | 3.0077478 | 1051 | 3.0216027 | 1084 | 3.0350293 |
| 019 | 3.0081742 | 1052 | 3.0220157 | 1085 | 3.0354297 |
| 020 | 3.0086002 | 1053 | 3.0224284 | 1086 | 3.0358298 |
| 021 | 3.0090257 | 1054 | 3.0228406 | 1087 | 3.0362295 |
| 022 | 3.0094509 | 1055 | 3.0232524 | 1088 | 3.0366289 |
| 023 | 3.0098756 | 1056 | 3.0236639 | 1089 | 3.0370279 |
| 024 | 3.0102999 | 1057 | 3.0240750 | 1090 | 3.0374265 |
| 025 | 3.0107239 | 1058 | 3.0244857 | 1091 | 3.0378247 |
| 026 | 3.0111474 | 1059 | 3.0248960 | 1092 | 3.0382226 |
| 027 | 3.0115704 | 1060 | 3.0253059 | 1093 | 3.0386201 |
| 028 | 3.0119931 | 1061 | 3.0257154 | 1094 | 3.0390173 |
| 029 | 3.0124154 | 1062 | 3.0261245 | 1095 | 3.0394141 |
| 030 | 3.0128372 | 1063 | 3.0265333 | 1096 | 3.0398105 |
| 031 | 3.0132587 | 1064 | 3.0269416 | 1097 | 3.0402066 |
| 032 | 3.0136797 | 1065 | 3.0273496 | 1098 | 3.0406023 |
| 033 | 3.0141003 | 1066 | 3.0277572 | 1099 | 3.0409977 |
| 034 | 3.0145205 | 1067 | 3.0281644 | 1100 | 3.0413927 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 1101 | 3.0417873 | 1134 | 3.0546130 | 1167 | 3.0670708 |
| 1102 | 3.0421816 | 1135 | 3.0549958 | 1168 | 3.0674428 |
| 1103 | 3.0425755 | 1136 | 3.0553783 | 1169 | 3.0678145 |
| 1104 | 3.0429691 | 1137 | 3.0557604 | 1170 | 3.0681859 |
| 1105 | 3.0433623 | 1138 | 3.0561423 | 1171 | 3.0685569 |
| 1106 | 3.0437551 | 1139 | 3.0565237 | 1172 | 3.0689276 |
| 1107 | 3.0441476 | 1140 | 3.0569048 | 1173 | 3.0692980 |
| 1108 | 3.0445398 | 1141 | 3.0572856 | 1174 | 3.0696681 |
| 1109 | 3.0449315 | 1142 | 3.0576661 | 1175 | 3.0700379 |
| 1110 | 3.0453230 | 1143 | 3.0580462 | 1176 | 3.0704073 |
| 1111 | 3.0457140 | 1144 | 3.0584260 | 1177 | 3.0707765 |
| 1112 | 3.0461048 | 1145 | 3.0588055 | 1178 | 3.0711453 |
| 1113 | 3.0464952 | 1146 | 3.0591846 | 1179 | 3.0715138 |
| 1114 | 3.0468852 | 1147 | 3.0595634 | 1180 | 3.0718820 |
| 1115 | 3.0472749 | 1148 | 3.0599419 | 1181 | 3.0722499 |
| 1116 | 3.0476642 | 1149 | 3.0603200 | 1182 | 3.0726175 |
| 1117 | 3.0480532 | 1150 | 3.0606978 | 1183 | 3.0729847 |
| 1118 | 3.0484418 | 1151 | 3.0610753 | 1184 | 3.0733517 |
| 1119 | 3.0488301 | 1152 | 3.0614525 | 1185 | 3.0737183 |
| 1120 | 3.0492180 | 1153 | 3.0618293 | 1186 | 3.0740847 |
| 1121 | 3.0496056 | 1154 | 3.0622058 | 1187 | 3.0744507 |
| 1122 | 3.0499928 | 1155 | 3.0625820 | 1188 | 3.0748164 |
| 1123 | 3.0503797 | 1156 | 3.0629578 | 1189 | 3.0751818 |
| 1124 | 3.0507663 | 1157 | 3.0633334 | 1190 | 3.0755470 |
| 1125 | 3.0511525 | 1158 | 3.0637085 | 1191 | 3.0759118 |
| 1126 | 3.0515384 | 1159 | 3.0640834 | 1192 | 3.0762762 |
| 1127 | 3.0519239 | 1160 | 3.0644580 | 1193 | 3.0766404 |
| 1128 | 3.0523091 | 1161 | 3.0648322 | 1194 | 3.0770043 |
| 1129 | 3.0526939 | 1162 | 3.0652061 | 1195 | 3.0773679 |
| 1130 | 3.0530784 | 1163 | 3.0655797 | 1196 | 3.0777312 |
| 1131 | 3.0534626 | 1164 | 3.0659530 | 1197 | 3.0780941 |
| 1132 | 3.0538464 | 1165 | 3.0663259 | 1198 | 3.0784568 |
| 1133 | 3.0542299 | 1166 | 3.0666985 | 1199 | 3.0788192 |
| 1134 | 3.0546130 | 1167 | 3.0670708 | 1200 | 3.0791812 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1201 | 3.0795430 | 1234 | 3.0913151 | 1267 | 3.1027766 |
| 1202 | 3.0799045 | 1235 | 3.0916669 | 1268 | 3.1031192 |
| 1203 | 3.0802656 | 1236 | 3.0920185 | 1269 | 3.1034616 |
| 1204 | 3.0806265 | 1237 | 3.0923697 | 1270 | 3.1038037 |
| 1205 | 3.0809870 | 1238 | 3.0927206 | 1271 | 3.1041455 |
| 1206 | 3.0813473 | 1239 | 3.0930713 | 1272 | 3.1044871 |
| 1207 | 3.0817073 | 1240 | 3.0934217 | 1273 | 3.1048284 |
| 1208 | 3.0820669 | 1241 | 3.0937718 | 1274 | 3.1051694 |
| 1209 | 3.0824263 | 1242 | 3.0941216 | 1275 | 3.1055102 |
| 1210 | 3.0827854 | 1243 | 3.0944711 | 1276 | 3.1058507 |
| 1211 | 3.0831441 | 1244 | 3.0948204 | 1277 | 3.1061909 |
| 1212 | 3.0835026 | 1245 | 3.0951693 | 1278 | 3.1065308 |
| 1213 | 3.0838608 | 1246 | 3.0955180 | 1279 | 3.1068705 |
| 1214 | 3.0842187 | 1247 | 3.0958664 | 1280 | 3.1072100 |
| 1215 | 3.0845763 | 1248 | 3.0962146 | 1281 | 3.1075491 |
| 1216 | 3.0849336 | 1249 | 3.0965624 | 1282 | 3.1078880 |
| 1217 | 3.0852906 | 1250 | 3.0969100 | 1283 | 3.1082266 |
| 1218 | 3.0856473 | 1251 | 3.0972573 | 1284 | 3.1085650 |
| 1219 | 3.0860037 | 1252 | 3.0976043 | 1285 | 3.1089031 |
| 1220 | 3.0863598 | 1253 | 3.0979511 | 1286 | 3.1092410 |
| 1221 | 3.0867156 | 1254 | 3.0982975 | 1287 | 3.1095785 |
| 1222 | 3.0870712 | 1255 | 3.0986437 | 1288 | 3.1099159 |
| 1223 | 3.0874264 | 1256 | 3.0989896 | 1289 | 3.1102529 |
| 1224 | 3.0877814 | 1257 | 3.0993353 | 1290 | 3.1105897 |
| 1225 | 3.0881361 | 1258 | 3.0996806 | 1291 | 3.1109262 |
| 1226 | 3.0884905 | 1259 | 3.1000257 | 1292 | 3.1112625 |
| 1227 | 3.0888446 | 1260 | 3.1003705 | 1293 | 3.1115985 |
| 1228 | 3.0891984 | 1261 | 3.1007151 | 1294 | 3.1119343 |
| 1229 | 3.0895519 | 1262 | 3.1010593 | 1295 | 3.1122698 |
| 1230 | 3.0899051 | 1263 | 3.1014033 | 1296 | 3.1126050 |
| 1231 | 3.0902580 | 1264 | 3.1017471 | 1297 | 3.1129400 |
| 1232 | 3.0906107 | 1265 | 3.1020905 | 1298 | 3.1132747 |
| 1233 | 3.0909631 | 1266 | 3.1024337 | 1299 | 3.1136091 |
| 1234 | 3.0913151 | 1267 | 3.1027766 | 1300 | 3.1139433 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 1301 | 3.1142773 | 1334 | 3.1251558 | 1367 | 3.1357685 |
| 1302 | 3.1146110 | 1335 | 3.1254813 | 1368 | 3.1360861 |
| 1303 | 3.1149444 | 1336 | 3.1258064 | 1369 | 3.1364034 |
| 1304 | 3.1152776 | 1337 | 3.1261314 | 1370 | 3.1367206 |
| 1305 | 3.1156105 | 1338 | 3.1264561 | 1371 | 3.1370374 |
| 1306 | 3.1159432 | 1339 | 3.1267806 | 1372 | 3.1373541 |
| 1307 | 3.1162756 | 1340 | 3.1271048 | 1373 | 3.1376705 |
| 1308 | 3.1166077 | 1341 | 3.1274288 | 1374 | 3.1379867 |
| 1309 | 3.1169396 | 1342 | 3.1277525 | 1375 | 3.1383027 |
| 1310 | 3.1172713 | 1343 | 3.1280760 | 1376 | 3.1386184 |
| 1311 | 3.1176027 | 1344 | 3.1283993 | 1377 | 3.1389339 |
| 1312 | 3.1179338 | 1345 | 3.1287223 | 1378 | 3.1392492 |
| 1313 | 3.1182647 | 1346 | 3.1290450 | 1379 | 3.1395643 |
| 1314 | 3.1185954 | 1347 | 3.1293676 | 1380 | 3.1398791 |
| 1315 | 3.1189257 | 1348 | 3.1296899 | 1381 | 3.1401937 |
| 1316 | 3.1192555 | 1349 | 3.1300119 | 1382 | 3.1405080 |
| 1317 | 3.1195858 | 1350 | 3.1303338 | 1383 | 3.1408222 |
| 1318 | 3.1199154 | 1351 | 3.1306553 | 1384 | 3.1411361 |
| 1319 | 3.1202448 | 1352 | 3.1309767 | 1385 | 3.1414498 |
| 1320 | 3.1205739 | 1353 | 3.1312978 | 1386 | 3.1417632 |
| 1321 | 3.1209028 | 1354 | 3.1316187 | 1387 | 3.1420765 |
| 1322 | 3.1212314 | 1355 | 3.1319393 | 1388 | 3.1423895 |
| 1323 | 3.1215598 | 1356 | 3.1322597 | 1389 | 3.1427022 |
| 1324 | 3.1218880 | 1357 | 3.1325798 | 1390 | 3.1430148 |
| 1325 | 3.1222159 | 1358 | 3.1328998 | 1391 | 3.1433271 |
| 1326 | 3.1225435 | 1359 | 3.1332195 | 1392 | 3.1436392 |
| 1327 | 3.1228709 | 1360 | 3.1335389 | 1393 | 3.1439511 |
| 1328 | 3.1231981 | 1361 | 3.1338581 | 1394 | 3.1442628 |
| 1329 | 3.1235250 | 1362 | 3.1341771 | 1395 | 3.1445742 |
| 1330 | 3.1238516 | 1363 | 3.1344958 | 1396 | 3.1448854 |
| 1331 | 3.1241780 | 1364 | 3.1348144 | 1397 | 3.1451964 |
| 1332 | 3.1245042 | 1365 | 3.1351326 | 1398 | 3.1455072 |
| 1333 | 3.1248301 | 1366 | 3.1354507 | 1399 | 3.1458177 |
| 1334 | 3.1251558 | 1367 | 3.1357685 | 1400 | 3.1461280 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1401 | 3.1464381 | 1434 | 3.1565491 | 1467 | 3.1664301 |
| 1402 | 3.1467480 | 1435 | 3.1568519 | 1468 | 3.1667260 |
| 1403 | 3.1470577 | 1436 | 3.1571544 | 1469 | 3.1670218 |
| 1404 | 3.1473671 | 1437 | 3.1574568 | 1470 | 3.1673173 |
| 1405 | 3.1476763 | 1438 | 3.1577589 | 1471 | 3.1676127 |
| 1406 | 3.1479853 | 1439 | 3.1580603 | 1472 | 3.1679078 |
| 1407 | 3.1482941 | 1440 | 3.1583625 | 1473 | 3.1682027 |
| 1408 | 3.1486026 | 1441 | 3.1586640 | 1474 | 3.1684975 |
| 1409 | 3.1489110 | 1442 | 3.1589653 | 1475 | 3.1687920 |
| 1410 | 3.1492191 | 1443 | 3.1592663 | 1476 | 3.1690863 |
| 1411 | 3.1495270 | 1444 | 3.1595672 | 1477 | 3.1693805 |
| 1412 | 3.1498347 | 1445 | 3.1598678 | 1478 | 3.1696744 |
| 1413 | 3.1501422 | 1446 | 3.1601683 | 1479 | 3.1699682 |
| 1414 | 3.1504494 | 1447 | 3.1604685 | 1480 | 3.1702617 |
| 1415 | 3.1507564 | 1448 | 3.1607686 | 1481 | 3.1705550 |
| 1416 | 3.1510632 | 1449 | 3.1610684 | 1482 | 3.1708482 |
| 1417 | 3.1513698 | 1450 | 3.1613680 | 1483 | 3.1711411 |
| 1418 | 3.1516762 | 1451 | 3.1616674 | 1484 | 3.1714339 |
| 1419 | 3.1519824 | 1452 | 3.1619666 | 1485 | 3.1717264 |
| 1420 | 3.1522883 | 1453 | 3.1622656 | 1486 | 3.1720188 |
| 1421 | 3.1525941 | 1454 | 3.1625644 | 1487 | 3.1723110 |
| 1422 | 3.1528996 | 1455 | 3.1628630 | 1488 | 3.1726029 |
| 1423 | 3.1532049 | 1456 | 3.1631614 | 1489 | 3.1728947 |
| 1424 | 3.1535100 | 1457 | 3.1634595 | 1490 | 3.1731863 |
| 1425 | 3.1538149 | 1458 | 3.1637575 | 1491 | 3.1734776 |
| 1426 | 3.1541195 | 1459 | 3.1640553 | 1492 | 3.1737688 |
| 1427 | 3.1544240 | 1460 | 3.1643528 | 1493 | 3.1740598 |
| 1428 | 3.1547282 | 1461 | 3.1646502 | 1494 | 3.1743506 |
| 1429 | 3.1550322 | 1462 | 3.1649474 | 1495 | 3.1746412 |
| 1430 | 3.1553360 | 1463 | 3.1652443 | 1496 | 3.1749316 |
| 1431 | 3.1556396 | 1464 | 3.1655411 | 1497 | 3.1752218 |
| 1432 | 3.1559430 | 1465 | 3.1658376 | 1498 | 3.1755118 |
| 1433 | 3.1562462 | 1466 | 3.1661340 | 1499 | 3.1758016 |
| 1434 | 3.1565491 | 1467 | 3.1664301 | 1500 | 3.1760913 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1501 | 3.1763807 | 1534 | 3.1858253 | 1567 | 3.1950690 |
| 1502 | 3.1766699 | 1535 | 3.1861084 | 1568 | 3.1953460 |
| 1503 | 3.1769590 | 1536 | 3.1863912 | 1569 | 3.1956229 |
| 1504 | 3.1772478 | 1537 | 3.1866739 | 1570 | 3.1958996 |
| 1505 | 3.1775365 | 1538 | 3.1869563 | 1571 | 3.1961762 |
| 1506 | 3.1778250 | 1539 | 3.1872386 | 1572 | 3.1964525 |
| 1507 | 3.1781132 | 1540 | 3.1875207 | 1573 | 3.1967287 |
| 1508 | 3.1784013 | 1541 | 3.1878026 | 1574 | 3.1970047 |
| 1509 | 3.1786892 | 1542 | 3.1880844 | 1575 | 3.1972806 |
| 1510 | 3.1789769 | 1543 | 3.1883659 | 1576 | 3.1975562 |
| 1511 | 3.1792645 | 1544 | 3.1886473 | 1577 | 3.1978317 |
| 1512 | 3.1795518 | 1545 | 3.1889285 | 1578 | 3.1981070 |
| 1513 | 3.1798389 | 1546 | 3.1892095 | 1579 | 3.1983821 |
| 1514 | 3.1801259 | 1547 | 3.1894903 | 1580 | 3.1986571 |
| 1515 | 3.1804126 | 1548 | 3.1897709 | 1581 | 3.1989319 |
| 1516 | 3.1806992 | 1549 | 3.1900514 | 1582 | 3.1992065 |
| 1517 | 3.1809856 | 1550 | 3.1903317 | 1583 | 3.1994809 |
| 1518 | 3.1812718 | 1551 | 3.1906118 | 1584 | 3.1997552 |
| 1519 | 3.1815578 | 1552 | 3.1908917 | 1585 | 3.2000293 |
| 1520 | 3.1818436 | 1553 | 3.1911714 | 1586 | 3.2003032 |
| 1521 | 3.1821292 | 1554 | 3.1914510 | 1587 | 3.2005769 |
| 1522 | 3.1824146 | 1555 | 3.1917304 | 1588 | 3.2008505 |
| 1523 | 3.1826999 | 1556 | 3.1920096 | 1589 | 3.2011239 |
| 1524 | 3.1829850 | 1557 | 3.1922886 | 1590 | 3.2013971 |
| 1525 | 3.1832698 | 1558 | 3.1925674 | 1591 | 3.2016702 |
| 1526 | 3.1835545 | 1559 | 3.1928461 | 1592 | 3.2019431 |
| 1527 | 3.1838390 | 1560 | 3.1931246 | 1593 | 3.2022158 |
| 1528 | 3.1841233 | 1561 | 3.1934029 | 1594 | 3.2024883 |
| 1529 | 3.1844075 | 1562 | 3.1936810 | 1595 | 3.2027607 |
| 1530 | 3.1846914 | 1563 | 3.1939590 | 1596 | 3.2030329 |
| 1531 | 3.1849752 | 1564 | 3.1942367 | 1597 | 3.2033049 |
| 1532 | 3.1852588 | 1565 | 3.1945143 | 1598 | 3.2035768 |
| 1533 | 3.1855421 | 1566 | 3.1947917 | 1599 | 3.2038485 |
| 1534 | 3.1858253 | 1567 | 3.1950690 | 1600 | 3.2041200 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1601 | 3.2043913 | 1634 | 3.2132521 | 1667 | 3.2219356 |
| 1602 | 3.2046625 | 1635 | 3.2135178 | 1668 | 3.2221960 |
| 1603 | 3.2049335 | 1636 | 3.2137833 | 1669 | 3.2224563 |
| 1604 | 3.2052044 | 1637 | 3.2140487 | 1670 | 3.2227165 |
| 1605 | 3.2054750 | 1638 | 3.2143139 | 1671 | 3.2229764 |
| 1606 | 3.2057455 | 1639 | 3.2145789 | 1672 | 3.2232363 |
| 1607 | 3.2060159 | 1640 | 3.2148438 | 1673 | 3.2234959 |
| 1608 | 3.2062860 | 1641 | 3.2151086 | 1674 | 3.2237555 |
| 1609 | 3.2065560 | 1642 | 3.2153732 | 1675 | 3.2240148 |
| 1610 | 3.2068259 | 1643 | 3.2156376 | 1676 | 3.2242740 |
| 1611 | 3.2070955 | 1644 | 3.2159018 | 1677 | 3.2245331 |
| 1612 | 3.2073650 | 1645 | 3.2161659 | 1678 | 3.2247920 |
| 1613 | 3.2076344 | 1646 | 3.2164298 | 1679 | 3.2250507 |
| 1614 | 3.2079035 | 1647 | 3.2166936 | 1680 | 3.2253093 |
| 1615 | 3.2081725 | 1648 | 3.2169572 | 1681 | 3.2255677 |
| 1616 | 3.2084414 | 1649 | 3.2172206 | 1682 | 3.2258260 |
| 1617 | 3.2087100 | 1650 | 3.2174839 | 1683 | 3.2260841 |
| 1618 | 3.2089785 | 1651 | 3.2177471 | 1684 | 3.2263421 |
| 1619 | 3.2092468 | 1652 | 3.2180100 | 1685 | 3.2265999 |
| 1620 | 3.2095150 | 1653 | 3.2182728 | 1686 | 3.2268576 |
| 1621 | 3.2097830 | 1654 | 3.2185355 | 1687 | 3.2271151 |
| 1622 | 3.2100508 | 1655 | 3.2187980 | 1688 | 3.2273724 |
| 1623 | 3.2103185 | 1656 | 3.2190603 | 1689 | 3.2276296 |
| 1624 | 3.2105860 | 1657 | 3.2193225 | 1690 | 3.2278867 |
| 1625 | 3.2108534 | 1658 | 3.2195845 | 1691 | 3.2281436 |
| 1626 | 3.2111205 | 1659 | 3.2198464 | 1692 | 3.2284004 |
| 1627 | 3.2113876 | 1660 | 3.2201081 | 1693 | 3.2286570 |
| 1628 | 3.2116544 | 1661 | 3.2203696 | 1694 | 3.2289134 |
| 1629 | 3.2119211 | 1662 | 3.2206310 | 1695 | 3.2291697 |
| 1630 | 3.2121876 | 1663 | 3.2208922 | 1696 | 3.2294258 |
| 1631 | 3.2124540 | 1664 | 3.2211533 | 1697 | 3.2296818 |
| 1632 | 3.2127201 | 1665 | 3.2214142 | 1698 | 3.2299377 |
| 1633 | 3.2129862 | 1666 | 3.2216750 | 1699 | 3.2301934 |
| 1634 | 3.2132521 | 1667 | 3.2219356 | 1700 | 3.2304489 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 1701 | 3.2307043 | 1734 | 3.2390491 | 1767 | 3.2472365 |
| 1702 | 3.2309596 | 1735 | 3.2392995 | 1768 | 3.2474823 |
| 1703 | 3.2312146 | 1736 | 3.2395497 | 1769 | 3.2477278 |
| 1704 | 3.2314696 | 1737 | 3.2397998 | 1770 | 3.2479733 |
| 1705 | 3.2317244 | 1738 | 3.2400498 | 1771 | 3.2482186 |
| 1706 | 3.2319790 | 1739 | 3.2402996 | 1772 | 3.2484637 |
| 1707 | 3.2322335 | 1740 | 3.2405492 | 1773 | 3.2487087 |
| 1708 | 3.2324879 | 1741 | 3.2407988 | 1774 | 3.2489536 |
| 1709 | 3.2327421 | 1742 | 3.2410481 | 1775 | 3.2491984 |
| 1710 | 3.2329961 | 1743 | 3.2412974 | 1776 | 3.2494430 |
| 1711 | 3.2332500 | 1744 | 3.2415465 | 1777 | 3.2496874 |
| 1712 | 3.2335038 | 1745 | 3.2417954 | 1778 | 3.2499318 |
| 1713 | 3.2337574 | 1746 | 3.2420442 | 1779 | 3.2501759 |
| 1714 | 3.2340108 | 1747 | 3.2422929 | 1780 | 3.2504200 |
| 1715 | 3.2342641 | 1748 | 3.2425414 | 1781 | 3.2506639 |
| 1716 | 3.2345173 | 1749 | 3.2427898 | 1782 | 3.2509077 |
| 1717 | 3.2347703 | 1750 | 3.2430380 | 1783 | 3.2511513 |
| 1718 | 3.2350232 | 1751 | 3.2432861 | 1784 | 3.2513948 |
| 1719 | 3.2352759 | 1752 | 3.2435341 | 1785 | 3.2516382 |
| 1720 | 3.2355284 | 1753 | 3.2437819 | 1786 | 3.2518815 |
| 1721 | 3.2357809 | 1754 | 3.2440296 | 1787 | 3.2521246 |
| 1722 | 3.2360331 | 1755 | 3.2442771 | 1788 | 3.2523675 |
| 1723 | 3.2362853 | 1756 | 3.2445245 | 1789 | 3.2526103 |
| 1724 | 3.2365373 | 1757 | 3.2447718 | 1790 | 3.2528530 |
| 1725 | 3.2367891 | 1758 | 3.2450189 | 1791 | 3.2530956 |
| 1726 | 3.2370408 | 1759 | 3.2452658 | 1792 | 3.2533380 |
| 1727 | 3.2372923 | 1760 | 3.2455127 | 1793 | 3.2535803 |
| 1728 | 3.2375437 | 1761 | 3.2457594 | 1794 | 3.2538224 |
| 1729 | 3.2377950 | 1762 | 3.2460059 | 1795 | 3.2540645 |
| 1730 | 3.2380461 | 1763 | 3.2462523 | 1796 | 3.2543063 |
| 1731 | 3.2382971 | 1764 | 3.2464986 | 1797 | 3.2545481 |
| 1732 | 3.2385479 | 1765 | 3.2467447 | 1798 | 3.2547897 |
| 1733 | 3.2387986 | 1766 | 3.2469907 | 1799 | 3.2550312 |
| 1734 | 3.2390491 | 1767 | 3.2472365 | 1800 | 3.2552725 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1801 | 3.2555137 | 1834 | 3.2633993 | 1867 | 3.2711443 |
| 1802 | 3.2557548 | 1835 | 3.2636361 | 1868 | 3.2713769 |
| 1803 | 3.2559957 | 1836 | 3.2638727 | 1869 | 3.2716093 |
| 1804 | 3.2562365 | 1837 | 3.2641092 | 1870 | 3.2718416 |
| 1805 | 3.2564772 | 1838 | 3.2643455 | 1871 | 3.2720738 |
| 1806 | 3.2567177 | 1839 | 3.2645817 | 1872 | 3.2723058 |
| 1807 | 3.2569582 | 1840 | 3.2648178 | 1873 | 3.2725378 |
| 1808 | 3.2571984 | 1841 | 3.2650538 | 1874 | 3.2727696 |
| 1809 | 3.2574386 | 1842 | 3.2652896 | 1875 | 3.2730013 |
| 1810 | 3.2576786 | 1843 | 3.2655253 | 1876 | 3.2732328 |
| 1811 | 3.2579184 | 1844 | 3.2657609 | 1877 | 3.2734643 |
| 1812 | 3.2581582 | 1845 | 3.2659964 | 1878 | 3.2736956 |
| 1813 | 3.2583978 | 1846 | 3.2662317 | 1879 | 3.2739268 |
| 1814 | 3.2586373 | 1847 | 3.2664669 | 1880 | 3.2741578 |
| 1815 | 3.2588766 | 1848 | 3.2667020 | 1881 | 3.2743888 |
| 1816 | 3.2591158 | 1849 | 3.2669369 | 1882 | 3.2746196 |
| 1817 | 3.2593549 | 1850 | 3.2671717 | 1883 | 3.2748503 |
| 1818 | 3.2595939 | 1851 | 3.2674064 | 1884 | 3.2750809 |
| 1819 | 3.2598327 | 1852 | 3.2676410 | 1885 | 3.2753113 |
| 1820 | 3.2600714 | 1853 | 3.2678754 | 1886 | 3.2755417 |
| 1821 | 3.2603099 | 1854 | 3.2681097 | 1887 | 3.2757719 |
| 1822 | 3.2605484 | 1855 | 3.2683439 | 1888 | 3.2760020 |
| 1823 | 3.2607867 | 1856 | 3.2685780 | 1889 | 3.2762320 |
| 1824 | 3.2610248 | 1857 | 3.2688119 | 1890 | 3.2764618 |
| 1825 | 3.2612629 | 1858 | 3.2690457 | 1891 | 3.2766915 |
| 1826 | 3.2615008 | 1859 | 3.2692794 | 1892 | 3.2769211 |
| 1827 | 3.2617385 | 1860 | 3.2695129 | 1893 | 3.2771506 |
| 1828 | 3.2619762 | 1861 | 3.2697464 | 1894 | 3.2773800 |
| 1829 | 3.2622137 | 1862 | 3.2699797 | 1895 | 3.2776092 |
| 1830 | 3.2624511 | 1863 | 3.2702128 | 1896 | 3.2778383 |
| 1831 | 3.2626883 | 1864 | 3.2704459 | 1897 | 3.2780673 |
| 1832 | 3.2629255 | 1865 | 3.2706788 | 1898 | 3.2782962 |
| 1833 | 3.2631625 | 1866 | 3.2709116 | 1899 | 3.2785250 |
| 1834 | 3.2633993 | 1867 | 3.2711443 | 1900 | 3.2787536 |

1900

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 1901 | 3.2789321 | 1934 | 3.2864565 | 1967 | 3.2938044 |
| 1902 | 3.2792105 | 1935 | 3.2866810 | 1968 | 3.2940251 |
| 1903 | 3.2794388 | 1936 | 3.2869054 | 1969 | 3.2942457 |
| 1904 | 3.2796669 | 1937 | 3.2871296 | 1970 | 3.2944662 |
| 1905 | 3.2798950 | 1938 | 3.2873538 | 1971 | 3.2946866 |
| 1906 | 3.2801229 | 1939 | 3.2875778 | 1972 | 3.2949069 |
| 1907 | 3.2803507 | 1940 | 3.2878017 | 1973 | 3.2951271 |
| 1908 | 3.2805784 | 1941 | 3.2880255 | 1974 | 3.2953471 |
| 1909 | 3.2808059 | 1942 | 3.2882492 | 1975 | 3.2955671 |
| 1910 | 3.2810334 | 1943 | 3.2884728 | 1976 | 3.2957869 |
| 1911 | 3.2812607 | 1944 | 3.2886963 | 1977 | 3.2960067 |
| 1912 | 3.2814879 | 1945 | 3.2889196 | 1978 | 3.2962263 |
| 1913 | 3.2817150 | 1946 | 3.2891428 | 1979 | 3.2964458 |
| 1914 | 3.2819419 | 1947 | 3.2893659 | 1980 | 3.2966652 |
| 1915 | 3.2821688 | 1948 | 3.2895889 | 1981 | 3.2968845 |
| 1916 | 3.2823955 | 1949 | 3.2898118 | 1982 | 3.2971036 |
| 1917 | 3.2826221 | 1950 | 3.2900346 | 1983 | 3.2973227 |
| 1918 | 3.2828486 | 1951 | 3.2902573 | 1984 | 3.2975417 |
| 1919 | 3.2830750 | 1952 | 3.2904798 | 1985 | 3.2977605 |
| 1920 | 3.2833012 | 1953 | 3.2907022 | 1986 | 3.2979792 |
| 1921 | 3.2835274 | 1954 | 3.2909246 | 1987 | 3.2981979 |
| 1922 | 3.2837534 | 1955 | 3.2911468 | 1988 | 3.2984164 |
| 1923 | 3.2839793 | 1956 | 3.2913688 | 1989 | 3.2986348 |
| 1924 | 3.2842051 | 1957 | 3.2915908 | 1990 | 3.2988531 |
| 1925 | 3.2844307 | 1958 | 3.2918127 | 1991 | 3.2990713 |
| 1926 | 3.2846563 | 1959 | 3.2920344 | 1992 | 3.2992893 |
| 1927 | 3.2848817 | 1960 | 3.2922561 | 1993 | 3.2995073 |
| 1928 | 3.2851070 | 1961 | 3.2924776 | 1994 | 3.2997251 |
| 1929 | 3.2853322 | 1962 | 3.2926990 | 1995 | 3.2999429 |
| 1930 | 3.2855573 | 1963 | 3.2929203 | 1996 | 3.3001605 |
| 1931 | 3.2857823 | 1964 | 3.2931415 | 1997 | 3.3003781 |
| 1932 | 3.2860071 | 1965 | 3.2933626 | 1998 | 3.3005955 |
| 1933 | 3.2862318 | 1966 | 3.2935835 | 1999 | 3.3008128 |
| 1934 | 3.2864565 | 1967 | 3.2938044 | 2000 | 3.3010300 |

2000

2000

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2001 | 3.3012471 | 2034 | 3.3083509 | 2067 | 3.3153405 |
| 2002 | 3.3014641 | 2035 | 3.3085644 | 2068 | 3.3155505 |
| 2003 | 3.3016809 | 2036 | 3.3087778 | 2069 | 3.3157605 |
| 2004 | 3.3018977 | 2037 | 3.3089910 | 2070 | 3.3159703 |
| 2005 | 3.3021144 | 2038 | 3.3092042 | 2071 | 3.3161801 |
| 2006 | 3.3023309 | 2039 | 3.3094172 | 2072 | 3.3163897 |
| 2007 | 3.3025474 | 2040 | 3.3096302 | 2073 | 3.3165993 |
| 2008 | 3.3027637 | 2041 | 3.3098430 | 2074 | 3.3168087 |
| 2009 | 3.3029799 | 2042 | 3.3100557 | 2075 | 3.3170181 |
| 2010 | 3.3031961 | 2043 | 3.3102684 | 2076 | 3.3172273 |
| 2011 | 3.3034121 | 2044 | 3.3104809 | 2077 | 3.3174365 |
| 2012 | 3.3036280 | 2045 | 3.3106933 | 2078 | 3.3176455 |
| 2013 | 3.3038438 | 2046 | 3.3109056 | 2079 | 3.3178545 |
| 2014 | 3.3040595 | 2047 | 3.3111178 | 2080 | 3.3180633 |
| 2015 | 3.3042751 | 2048 | 3.3113299 | 2081 | 3.3182721 |
| 2016 | 3.3044905 | 2049 | 3.3115420 | 2082 | 3.3184807 |
| 2017 | 3.3047059 | 2050 | 3.3117539 | 2083 | 3.3186893 |
| 2018 | 3.3049212 | 2051 | 3.3119657 | 2084 | 3.3188977 |
| 2019 | 3.3051363 | 2052 | 3.3121774 | 2085 | 3.3191061 |
| 2020 | 3.3053514 | 2053 | 3.3123889 | 2086 | 3.3193143 |
| 2021 | 3.3055663 | 2054 | 3.3126004 | 2087 | 3.3195224 |
| 2022 | 3.3057812 | 2055 | 3.3128118 | 2088 | 3.3197305 |
| 2023 | 3.3059959 | 2056 | 3.3130231 | 2089 | 3.3199384 |
| 2024 | 3.3062105 | 2057 | 3.3132343 | 2090 | 3.3201463 |
| 2025 | 3.3064250 | 2058 | 3.3134454 | 2091 | 3.3203540 |
| 2026 | 3.3066394 | 2059 | 3.3136563 | 2092 | 3.3205617 |
| 2027 | 3.3068537 | 2060 | 3.3138672 | 2093 | 3.3207692 |
| 2028 | 3.3070679 | 2061 | 3.3140780 | 2094 | 3.3209767 |
| 2029 | 3.3072820 | 2062 | 3.3142887 | 2095 | 3.3211840 |
| 2030 | 3.3074960 | 2063 | 3.3144992 | 2096 | 3.3213913 |
| 2031 | 3.3077099 | 2064 | 3.3147097 | 2097 | 3.3215984 |
| 2032 | 3.3079237 | 2065 | 3.3149200 | 2098 | 3.3218055 |
| 2033 | 3.3081374 | 2066 | 3.3151303 | 2099 | 3.3220124 |
| 2034 | 3.3083509 | 2067 | 3.3153405 | 2100 | 3.3222193 |

2100

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2101 | 3.3224260 | 2134 | 3.3291944 | 2167 | 3.3358589 |
| 2102 | 3.3226327 | 2135 | 3.3293979 | 2168 | 3.3360593 |
| 2103 | 3.3228393 | 2136 | 3.3296012 | 2169 | 3.3362596 |
| 2104 | 3.3230457 | 2137 | 3.3298045 | 2170 | 3.3364597 |
| 2105 | 3.3232521 | 2138 | 3.3300077 | 2171 | 3.3366598 |
| 2106 | 3.3234584 | 2139 | 3.3302108 | 2172 | 3.3368598 |
| 2107 | 3.3236645 | 2140 | 3.3304138 | 2173 | 3.3370597 |
| 2108 | 3.3238706 | 2141 | 3.3306167 | 2174 | 3.3372595 |
| 2109 | 3.3240766 | 2142 | 3.3308195 | 2175 | 3.3374593 |
| 2110 | 3.3242825 | 2143 | 3.3310222 | 2176 | 3.3376589 |
| 2111 | 3.3244882 | 2144 | 3.3312248 | 2177 | 3.3378584 |
| 2112 | 3.3246939 | 2145 | 3.3314273 | 2178 | 3.3380579 |
| 2113 | 3.3248995 | 2146 | 3.3316297 | 2179 | 3.3382572 |
| 2114 | 3.3251050 | 2147 | 3.3318320 | 2180 | 3.3384565 |
| 2115 | 3.3253104 | 2148 | 3.3320343 | 2181 | 3.3386557 |
| 2116 | 3.3255157 | 2149 | 3.3322364 | 2182 | 3.3388547 |
| 2117 | 3.3257209 | 2150 | 3.3324385 | 2183 | 3.3390537 |
| 2118 | 3.3259260 | 2151 | 3.3326404 | 2184 | 3.3392526 |
| 2119 | 3.3261310 | 2152 | 3.3328423 | 2185 | 3.3394514 |
| 2120 | 3.3263359 | 2153 | 3.3330440 | 2186 | 3.3396501 |
| 2121 | 3.3265407 | 2154 | 3.3332457 | 2187 | 3.3398488 |
| 2122 | 3.3267454 | 2155 | 3.3334473 | 2188 | 3.3400473 |
| 2123 | 3.3269500 | 2156 | 3.3336488 | 2189 | 3.3402458 |
| 2124 | 3.3271545 | 2157 | 3.3338501 | 2190 | 3.3404441 |
| 2125 | 3.3273589 | 2158 | 3.3340514 | 2191 | 3.3406424 |
| 2126 | 3.3275633 | 2159 | 3.3342526 | 2192 | 3.3408405 |
| 2127 | 3.3277675 | 2160 | 3.3344537 | 2193 | 3.3410386 |
| 2128 | 3.3279716 | 2161 | 3.3346548 | 2194 | 3.3412366 |
| 2129 | 3.3281757 | 2162 | 3.3348557 | 2195 | 3.3414345 |
| 2130 | 3.3283796 | 2163 | 3.3350565 | 2196 | 3.3416323 |
| 2131 | 3.3285834 | 2164 | 3.3352572 | 2197 | 3.3418301 |
| 2132 | 3.3287872 | 2165 | 3.3354579 | 2198 | 3.3420277 |
| 2133 | 3.3289909 | 2166 | 3.3356585 | 2199 | 3.3422252 |
| 2134 | 3.3291944 | 2167 | 3.3358589 | 2200 | 3.3424227 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|------|-----------|------|-----------|
| 201 | 3.3426200 | 2234 | 3.3490832 | 2267 | 3.3554515 |
| 202 | 3.3428173 | 2235 | 3.3492775 | 2268 | 3.3556430 |
| 203 | 3.3430145 | 2236 | 3.3494718 | 2269 | 3.3558345 |
| 204 | 3.3432116 | 2237 | 3.3496660 | 2270 | 3.3560259 |
| 205 | 3.3434086 | 2238 | 3.3498601 | 2271 | 3.3562171 |
| 206 | 3.3436055 | 2239 | 3.3500541 | 2272 | 3.3564083 |
| 207 | 3.3438023 | 2240 | 3.3502480 | 2273 | 3.3565994 |
| 208 | 3.3439991 | 2241 | 3.3504419 | 2274 | 3.3567905 |
| 209 | 3.3441957 | 2242 | 3.3506356 | 2275 | 3.3569814 |
| 210 | 3.3443923 | 2243 | 3.3508293 | 2276 | 3.3571723 |
| 211 | 3.3445887 | 2244 | 3.3510228 | 2277 | 3.3573630 |
| 212 | 3.3447851 | 2245 | 3.3512163 | 2278 | 3.3575537 |
| 213 | 3.3449814 | 2246 | 3.3514098 | 2279 | 3.3577443 |
| 214 | 3.3451776 | 2247 | 3.3516031 | 2280 | 3.3579348 |
| 215 | 3.3453737 | 2248 | 3.3517963 | 2281 | 3.3581253 |
| 216 | 3.3455698 | 2249 | 3.3519895 | 2282 | 3.3583156 |
| 217 | 3.3457657 | 2250 | 3.3521825 | 2283 | 3.3585059 |
| 218 | 3.3459615 | 2251 | 3.3523755 | 2284 | 3.3586961 |
| 219 | 3.3461573 | 2252 | 3.3525684 | 2285 | 3.3588862 |
| 220 | 3.3463530 | 2253 | 3.3527612 | 2286 | 3.3590762 |
| 221 | 3.3465486 | 2254 | 3.3529539 | 2287 | 3.3592662 |
| 222 | 3.3467441 | 2255 | 3.3531465 | 2288 | 3.3594560 |
| 223 | 3.3469395 | 2256 | 3.3533391 | 2289 | 3.3596458 |
| 224 | 3.3471348 | 2257 | 3.3535316 | 2290 | 3.3598355 |
| 225 | 3.3473300 | 2258 | 3.3537239 | 2291 | 3.3600251 |
| 226 | 3.3475252 | 2259 | 3.3539162 | 2292 | 3.3602146 |
| 227 | 3.3477202 | 2260 | 3.3541084 | 2293 | 3.3604041 |
| 228 | 3.3479152 | 2261 | 3.3543006 | 2294 | 3.3605934 |
| 229 | 3.3481101 | 2262 | 3.3544926 | 2295 | 3.3607827 |
| 230 | 3.3483049 | 2263 | 3.3546846 | 2296 | 3.3609719 |
| 231 | 3.3484996 | 2264 | 3.3548764 | 2297 | 3.3611610 |
| 232 | 3.3486942 | 2265 | 3.3550682 | 2298 | 3.3613500 |
| 233 | 3.3488887 | 2266 | 3.3552599 | 2299 | 3.3615390 |
| 234 | 3.3490832 | 2267 | 3.3554515 | 2300 | 3.3617278 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2301 | 3.3619166 | 2334 | 3.3681008 | 2367 | 3.37419 |
| 2302 | 3.3621053 | 2335 | 3.3682869 | 2368 | 3.37438 |
| 2303 | 3.3622939 | 2336 | 3.3684728 | 2369 | 3.37456 |
| 2304 | 3.3624825 | 2337 | 3.3686587 | 2370 | 3.37474 |
| 2305 | 3.3626709 | 2338 | 3.3688445 | 2371 | 3.37493 |
| 2306 | 3.3628593 | 2339 | 3.3690302 | 2372 | 3.37511 |
| 2307 | 3.3630476 | 2340 | 3.3692159 | 2373 | 3.37529 |
| 2308 | 3.3632358 | 2341 | 3.3694014 | 2374 | 3.37548 |
| 2309 | 3.3634239 | 2342 | 3.3695869 | 2375 | 3.37566 |
| 2310 | 3.3636120 | 2343 | 3.3697723 | 2376 | 3.37584 |
| 2311 | 3.3637999 | 2344 | 3.3699576 | 2377 | 3.37602 |
| 2312 | 3.3639878 | 2345 | 3.3701428 | 2378 | 3.37621 |
| 2313 | 3.3641756 | 2346 | 3.3703280 | 2379 | 3.37639 |
| 2314 | 3.3643633 | 2347 | 3.3705131 | 2380 | 3.37657 |
| 2315 | 3.3645510 | 2348 | 3.3706981 | 2381 | 3.37675 |
| 2316 | 3.3647386 | 2349 | 3.3708830 | 2382 | 3.37694 |
| 2317 | 3.3649260 | 2350 | 3.3710679 | 2383 | 3.37712 |
| 2318 | 3.3651134 | 2351 | 3.3712526 | 2384 | 3.37730 |
| 2319 | 3.3653007 | 2352 | 3.3714373 | 2385 | 3.37748 |
| 2320 | 3.3654880 | 2353 | 3.3716219 | 2386 | 3.37767 |
| 2321 | 3.3656751 | 2354 | 3.3718065 | 2387 | 3.37785 |
| 2322 | 3.3658622 | 2355 | 3.3719909 | 2388 | 3.37803 |
| 2323 | 3.3660492 | 2356 | 3.3721753 | 2389 | 3.37821 |
| 2324 | 3.3662361 | 2357 | 3.3723596 | 2390 | 3.37839 |
| 2325 | 3.3664230 | 2358 | 3.3725438 | 2391 | 3.37857 |
| 2326 | 3.3666097 | 2359 | 3.3727279 | 2392 | 3.37876 |
| 2327 | 3.3667964 | 2360 | 3.3729120 | 2393 | 3.37894 |
| 2328 | 3.3669830 | 2361 | 3.3730960 | 2394 | 3.37912 |
| 2329 | 3.3671695 | 2362 | 3.3732799 | 2395 | 3.37930 |
| 2330 | 3.3673559 | 2363 | 3.3734637 | 2396 | 3.37948 |
| 2331 | 3.3675423 | 2364 | 3.3736475 | 2397 | 3.37966 |
| 2332 | 3.3677285 | 2365 | 3.3738311 | 2398 | 3.37984 |
| 2333 | 3.3679147 | 2366 | 3.3740147 | 2399 | 3.38003 |
| 2334 | 3.3681008 | 2367 | 3.3741983 | 2400 | 3.38021 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2401 | 3.3803922 | 2434 | 3.3863206 | 2467 | 3.3921691 |
| 2402 | 3.3805730 | 2435 | 3.3864990 | 2468 | 3.3923452 |
| 2403 | 3.3807538 | 2436 | 3.3866773 | 2469 | 3.3925211 |
| 2404 | 3.3809345 | 2437 | 3.3868555 | 2470 | 3.3926969 |
| 2405 | 3.3811151 | 2438 | 3.3870337 | 2471 | 3.3928727 |
| 2406 | 3.3812956 | 2439 | 3.3872118 | 2472 | 3.3930485 |
| 2407 | 3.3814761 | 2440 | 3.3873898 | 2473 | 3.3932241 |
| 2408 | 3.3816565 | 2441 | 3.3875678 | 2474 | 3.3933997 |
| 2409 | 3.3818368 | 2442 | 3.3877457 | 2475 | 3.3935752 |
| 2410 | 3.3820170 | 2443 | 3.3879235 | 2476 | 3.3937506 |
| 2411 | 3.3821972 | 2444 | 3.3881012 | 2477 | 3.3939260 |
| 2412 | 3.3823773 | 2445 | 3.3882789 | 2478 | 3.3941013 |
| 2413 | 3.3825573 | 2446 | 3.3884565 | 2479 | 3.3942765 |
| 2414 | 3.3827373 | 2447 | 3.3886340 | 2480 | 3.3944517 |
| 2415 | 3.3829171 | 2448 | 3.3888114 | 2481 | 3.3946268 |
| 2416 | 3.3830969 | 2449 | 3.3889888 | 2482 | 3.3948018 |
| 2417 | 3.3832766 | 2450 | 3.3891661 | 2483 | 3.3949767 |
| 2418 | 3.3834563 | 2451 | 3.3893433 | 2484 | 3.3951516 |
| 2419 | 3.3836359 | 2452 | 3.3895205 | 2485 | 3.3953264 |
| 2420 | 3.3838154 | 2453 | 3.3896975 | 2486 | 3.3955011 |
| 2421 | 3.3839948 | 2454 | 3.3898746 | 2487 | 3.3956758 |
| 2422 | 3.3841741 | 2455 | 3.3900515 | 2488 | 3.3958504 |
| 2423 | 3.3843534 | 2456 | 3.3902284 | 2489 | 3.3960249 |
| 2424 | 3.3845326 | 2457 | 3.3904052 | 2490 | 3.3961993 |
| 2425 | 3.3847117 | 2458 | 3.3905819 | 2491 | 3.3963737 |
| 2426 | 3.3848908 | 2459 | 3.3907585 | 2492 | 3.3965480 |
| 2427 | 3.3850698 | 2460 | 3.3909351 | 2493 | 3.3967223 |
| 2428 | 3.3852487 | 2461 | 3.3911116 | 2494 | 3.3968964 |
| 2429 | 3.3854275 | 2462 | 3.3912880 | 2495 | 3.3970705 |
| 2430 | 3.3856063 | 2463 | 3.3914644 | 2496 | 3.3972446 |
| 2431 | 3.3857850 | 2464 | 3.3916407 | 2497 | 3.3974185 |
| 2432 | 3.3859636 | 2465 | 3.3918169 | 2498 | 3.3975924 |
| 2433 | 3.3861421 | 2466 | 3.3919931 | 2499 | 3.3977662 |
| 2434 | 3.3863206 | 2467 | 3.3921691 | 2500 | 3.3979400 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2501 | 3.3981137 | 2534 | 3.4038066 | 2567 | 3.4094255 |
| 2502 | 3.3982873 | 2535 | 3.4039780 | 2568 | 3.4095950 |
| 2503 | 3.3984608 | 2536 | 3.4041492 | 2569 | 3.4097644 |
| 2504 | 3.3986343 | 2537 | 3.4043205 | 2570 | 3.4099331 |
| 2505 | 3.3988077 | 2538 | 3.4044916 | 2571 | 3.4101021 |
| 2506 | 3.3989811 | 2539 | 3.4046627 | 2572 | 3.4102710 |
| 2507 | 3.3991543 | 2540 | 3.4048337 | 2573 | 3.4104398 |
| 2508 | 3.3993275 | 2541 | 3.4050047 | 2574 | 3.4106085 |
| 2509 | 3.3995007 | 2542 | 3.4051755 | 2575 | 3.4107772 |
| 2510 | 3.3996737 | 2543 | 3.4053464 | 2576 | 3.4109458 |
| 2511 | 3.3998467 | 2544 | 3.4055171 | 2577 | 3.4111144 |
| 2512 | 3.4000196 | 2545 | 3.4056878 | 2578 | 3.4112829 |
| 2513 | 3.4001925 | 2546 | 3.4058584 | 2579 | 3.4114513 |
| 2514 | 3.4003653 | 2547 | 3.4060289 | 2580 | 3.4116197 |
| 2515 | 3.4005380 | 2548 | 3.4061994 | 2581 | 3.4117880 |
| 2516 | 3.4007106 | 2549 | 3.4063698 | 2582 | 3.4119562 |
| 2517 | 3.4008832 | 2550 | 3.4065402 | 2583 | 3.4121244 |
| 2518 | 3.4010557 | 2551 | 3.4067105 | 2584 | 3.4122925 |
| 2519 | 3.4012282 | 2552 | 3.4068807 | 2585 | 3.4124605 |
| 2520 | 3.4014005 | 2553 | 3.4070508 | 2586 | 3.4126285 |
| 2521 | 3.4015728 | 2554 | 3.4072209 | 2587 | 3.4127964 |
| 2522 | 3.4017451 | 2555 | 3.4073909 | 2588 | 3.4129643 |
| 2523 | 3.4019173 | 2556 | 3.4075608 | 2589 | 3.4131320 |
| 2524 | 3.4020893 | 2557 | 3.4077307 | 2590 | 3.4132998 |
| 2525 | 3.4022614 | 2558 | 3.4079005 | 2591 | 3.4134674 |
| 2526 | 3.4024333 | 2559 | 3.4080703 | 2592 | 3.4136350 |
| 2527 | 3.4026052 | 2560 | 3.4082400 | 2593 | 3.4138025 |
| 2528 | 3.4027771 | 2561 | 3.4084096 | 2594 | 3.4139700 |
| 2529 | 3.4029488 | 2562 | 3.4085791 | 2595 | 3.4141374 |
| 2530 | 3.4031205 | 2563 | 3.4087486 | 2596 | 3.4143047 |
| 2531 | 3.4032921 | 2564 | 3.4089180 | 2597 | 3.4144719 |
| 2532 | 3.4034637 | 2565 | 3.4090874 | 2598 | 3.4146391 |
| 2533 | 3.4036352 | 2566 | 3.4092567 | 2599 | 3.4148063 |
| 2534 | 3.4038066 | 2567 | 3.4094259 | 2600 | 3.4149733 |

2600

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2601 | 3.4151404 | 2634 | 3.4206158 | 2667 | 3.4260230 |
| 2602 | 3.4153073 | 2635 | 3.4207806 | 2668 | 3.4261858 |
| 2603 | 3.4154742 | 2636 | 3.4209454 | 2669 | 3.4263486 |
| 2604 | 3.4156410 | 2637 | 3.4211101 | 2670 | 3.4265113 |
| 2605 | 3.4158077 | 2638 | 3.4212748 | 2671 | 3.4266739 |
| 2606 | 3.4159744 | 2639 | 3.4214394 | 2672 | 3.4268365 |
| 2607 | 3.4161410 | 2640 | 3.4216039 | 2673 | 3.4269990 |
| 2608 | 3.4163076 | 2641 | 3.4217684 | 2674 | 3.4271614 |
| 2609 | 3.4164741 | 2642 | 3.4219328 | 2675 | 3.4273238 |
| 2610 | 3.4166405 | 2643 | 3.4220972 | 2676 | 3.4274861 |
| 2611 | 3.4168069 | 2644 | 3.4222614 | 2677 | 3.4276484 |
| 2612 | 3.4169732 | 2645 | 3.4224257 | 2678 | 3.4278106 |
| 2613 | 3.4171394 | 2646 | 3.4225898 | 2679 | 3.4279727 |
| 2614 | 3.4173056 | 2647 | 3.4227539 | 2680 | 3.4281348 |
| 2615 | 3.4174717 | 2648 | 3.4229180 | 2681 | 3.4282968 |
| 2616 | 3.4176377 | 2649 | 3.4230820 | 2682 | 3.4284588 |
| 2617 | 3.4178037 | 2650 | 3.4232459 | 2683 | 3.4286207 |
| 2618 | 3.4179696 | 2651 | 3.4234097 | 2684 | 3.4287825 |
| 2619 | 3.4181355 | 2652 | 3.4235735 | 2685 | 3.4289443 |
| 2620 | 3.4183013 | 2653 | 3.4237372 | 2686 | 3.4291060 |
| 2621 | 3.4184670 | 2654 | 3.4239009 | 2687 | 3.4292677 |
| 2622 | 3.4186327 | 2655 | 3.4240645 | 2688 | 3.4294293 |
| 2623 | 3.4187983 | 2656 | 3.4242281 | 2689 | 3.4295908 |
| 2624 | 3.4189638 | 2657 | 3.4243916 | 2690 | 3.4297523 |
| 2625 | 3.4191293 | 2658 | 3.4245550 | 2691 | 3.4299137 |
| 2626 | 3.4192947 | 2659 | 3.4247183 | 2692 | 3.4300751 |
| 2627 | 3.4194601 | 2660 | 3.4248816 | 2693 | 3.4302364 |
| 2628 | 3.4196254 | 2661 | 3.4250449 | 2694 | 3.4303976 |
| 2629 | 3.4197906 | 2662 | 3.4252080 | 2695 | 3.4305588 |
| 2630 | 3.4199557 | 2663 | 3.4253712 | 2696 | 3.4307199 |
| 2631 | 3.4201208 | 2664 | 3.4255342 | 2697 | 3.4308809 |
| 2632 | 3.4202859 | 2665 | 3.4256972 | 2698 | 3.4310419 |
| 2633 | 3.4204509 | 2666 | 3.4258601 | 2699 | 3.4312029 |
| 2634 | 3.4206158 | 2667 | 3.4260230 | 2700 | 3.4313638 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2701 | 3.4315246 | 2734 | 3.4367985 | 2767 | 3.4420092 |
| 2702 | 3.4316853 | 2735 | 3.4369573 | 2768 | 3.4421661 |
| 2703 | 3.4318460 | 2736 | 3.4371161 | 2769 | 3.4423229 |
| 2704 | 3.4320067 | 2737 | 3.4372748 | 2770 | 3.4424798 |
| 2705 | 3.4321673 | 2738 | 3.4374334 | 2771 | 3.4426365 |
| 2706 | 3.4323278 | 2739 | 3.4375920 | 2772 | 3.4427932 |
| 2707 | 3.4324882 | 2740 | 3.4377506 | 2773 | 3.4429499 |
| 2708 | 3.4326487 | 2741 | 3.4379090 | 2774 | 3.4431065 |
| 2709 | 3.4328090 | 2742 | 3.4380674 | 2775 | 3.4432630 |
| 2710 | 3.4329693 | 2743 | 3.4382258 | 2776 | 3.4434195 |
| 2711 | 3.4331295 | 2744 | 3.4383841 | 2777 | 3.4435759 |
| 2712 | 3.4332897 | 2745 | 3.4385423 | 2778 | 3.4437322 |
| 2713 | 3.4334498 | 2746 | 3.4387005 | 2779 | 3.4438885 |
| 2714 | 3.4336098 | 2747 | 3.4388587 | 2780 | 3.4440448 |
| 2715 | 3.4337698 | 2748 | 3.4390167 | 2781 | 3.4442010 |
| 2716 | 3.4339298 | 2749 | 3.4391747 | 2782 | 3.4443571 |
| 2717 | 3.4340896 | 2750 | 3.4393327 | 2783 | 3.4445131 |
| 2718 | 3.4342494 | 2751 | 3.4394906 | 2784 | 3.4446692 |
| 2719 | 3.4344092 | 2752 | 3.4396484 | 2785 | 3.4448252 |
| 2720 | 3.4345689 | 2753 | 3.4398062 | 2786 | 3.4449811 |
| 2721 | 3.4347285 | 2754 | 3.4399639 | 2787 | 3.4451370 |
| 2722 | 3.4348881 | 2755 | 3.4401216 | 2788 | 3.4452928 |
| 2723 | 3.4350476 | 2756 | 3.4402792 | 2789 | 3.4454485 |
| 2724 | 3.4352071 | 2757 | 3.4404368 | 2790 | 3.4456042 |
| 2725 | 3.4353665 | 2758 | 3.4405943 | 2791 | 3.4457598 |
| 2726 | 3.4355258 | 2759 | 3.4407517 | 2792 | 3.4459154 |
| 2727 | 3.4356851 | 2760 | 3.4409091 | 2793 | 3.4460709 |
| 2728 | 3.4358444 | 2761 | 3.4410664 | 2794 | 3.4462264 |
| 2729 | 3.4360035 | 2762 | 3.4412237 | 2795 | 3.4463818 |
| 2730 | 3.4361626 | 2763 | 3.4413809 | 2796 | 3.4465372 |
| 2731 | 3.4363217 | 2764 | 3.4415380 | 2797 | 3.4466925 |
| 2732 | 3.4364807 | 2765 | 3.4416951 | 2798 | 3.4468477 |
| 2733 | 3.4366396 | 2766 | 3.4418522 | 2799 | 3.4470029 |
| 2734 | 3.4367985 | 2767 | 3.4420092 | 2800 | 3.4471580 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 2801 | 3.4473131 | 2834 | 3.4523998 | 2867 | 3.4574277 |
| 2802 | 3.4474681 | 2835 | 3.4525531 | 2868 | 3.4575791 |
| 2803 | 3.4476231 | 2836 | 3.4527062 | 2869 | 3.4577305 |
| 2804 | 3.4477780 | 2837 | 3.4528593 | 2870 | 3.4578819 |
| 2805 | 3.4479329 | 2838 | 3.4530124 | 2871 | 3.4580332 |
| 2806 | 3.4480877 | 2839 | 3.4531654 | 2872 | 3.4581844 |
| 2807 | 3.4482424 | 2840 | 3.4533183 | 2873 | 3.4583356 |
| 2808 | 3.4483971 | 2841 | 3.4534712 | 2874 | 3.4584867 |
| 2809 | 3.4485517 | 2842 | 3.4536241 | 2875 | 3.4586378 |
| 2810 | 3.4487063 | 2843 | 3.4537769 | 2876 | 3.4587889 |
| 2811 | 3.4488608 | 2844 | 3.4539296 | 2877 | 3.4589399 |
| 2812 | 3.4490153 | 2845 | 3.4540823 | 2878 | 3.4590908 |
| 2813 | 3.4491697 | 2846 | 3.4542349 | 2879 | 3.4592417 |
| 2814 | 3.4493241 | 2847 | 3.4543875 | 2880 | 3.4593925 |
| 2815 | 3.4494784 | 2848 | 3.4545400 | 2881 | 3.4595433 |
| 2816 | 3.4496326 | 2849 | 3.4546924 | 2882 | 3.4596940 |
| 2817 | 3.4497868 | 2850 | 3.4548449 | 2883 | 3.4598446 |
| 2818 | 3.4499410 | 2851 | 3.4549972 | 2884 | 3.4599953 |
| 2819 | 3.4500951 | 2852 | 3.4551495 | 2885 | 3.4601458 |
| 2820 | 3.4502491 | 2853 | 3.4553018 | 2886 | 3.4602963 |
| 2821 | 3.4504031 | 2854 | 3.4554540 | 2887 | 3.4604468 |
| 2822 | 3.4505570 | 2855 | 3.4556061 | 2888 | 3.4605972 |
| 2823 | 3.4507109 | 2856 | 3.4557582 | 2889 | 3.4607475 |
| 2824 | 3.4508647 | 2857 | 3.4559102 | 2890 | 3.4608978 |
| 2825 | 3.4510184 | 2858 | 3.4560622 | 2891 | 3.4610481 |
| 2826 | 3.4511721 | 2859 | 3.4562142 | 2892 | 3.4611983 |
| 2827 | 3.4513258 | 2860 | 3.4563660 | 2893 | 3.4613484 |
| 2828 | 3.4514794 | 2861 | 3.4565179 | 2894 | 3.4614985 |
| 2829 | 3.4516329 | 2862 | 3.4566696 | 2895 | 3.4616486 |
| 2830 | 3.4517864 | 2863 | 3.4568213 | 2896 | 3.4617986 |
| 2831 | 3.4519399 | 2864 | 3.4569730 | 2897 | 3.4619485 |
| 2832 | 3.4520932 | 2865 | 3.4571246 | 2898 | 3.4620984 |
| 2833 | 3.4522466 | 2866 | 3.4572762 | 2899 | 3.4622482 |
| 2834 | 3.4523998 | 2867 | 3.4574277 | 2900 | 3.4623980 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 2901 | 3.4625477 | 2934 | 3.4674601 | 2967 | 3.4723175 |
| 2902 | 3.4626374 | 2935 | 3.4676081 | 2968 | 3.4724639 |
| 2903 | 3.4628470 | 2936 | 3.4677560 | 2969 | 3.4726102 |
| 2904 | 3.4629966 | 2937 | 3.4679039 | 2970 | 3.4727564 |
| 2905 | 3.4631461 | 2938 | 3.4680518 | 2971 | 3.4729027 |
| 2906 | 3.4632956 | 2939 | 3.4681996 | 2972 | 3.4730488 |
| 2907 | 3.4634450 | 2940 | 3.4683473 | 2973 | 3.4731949 |
| 2908 | 3.4635944 | 2941 | 3.4684950 | 2974 | 3.4733410 |
| 2909 | 3.4637437 | 2942 | 3.4686427 | 2975 | 3.4734870 |
| 2910 | 3.4638930 | 2943 | 3.4687903 | 2976 | 3.4736329 |
| 2911 | 3.4640422 | 2944 | 3.4689378 | 2977 | 3.4737788 |
| 2912 | 3.4641914 | 2945 | 3.4690853 | 2978 | 3.4739247 |
| 2913 | 3.4643405 | 2946 | 3.4692327 | 2979 | 3.4740705 |
| 2914 | 3.4644895 | 2947 | 3.4693801 | 2980 | 3.4742163 |
| 2915 | 3.4646386 | 2948 | 3.4695275 | 2981 | 3.4743620 |
| 2916 | 3.4647875 | 2949 | 3.4696748 | 2982 | 3.4745076 |
| 2917 | 3.4649364 | 2950 | 3.4698220 | 2983 | 3.4746533 |
| 2918 | 3.4650853 | 2951 | 3.4699692 | 2984 | 3.4747988 |
| 2919 | 3.4652341 | 2952 | 3.4701163 | 2985 | 3.4749443 |
| 2920 | 3.4653828 | 2953 | 3.4702634 | 2986 | 3.4750898 |
| 2921 | 3.4655316 | 2954 | 3.4704105 | 2987 | 3.4752352 |
| 2922 | 3.4656802 | 2955 | 3.4705575 | 2988 | 3.4753806 |
| 2923 | 3.4658288 | 2956 | 3.4707044 | 2989 | 3.4755259 |
| 2924 | 3.4659774 | 2957 | 3.4708513 | 2990 | 3.4756712 |
| 2925 | 3.4661259 | 2958 | 3.4709982 | 2991 | 3.4758164 |
| 2926 | 3.4662743 | 2959 | 3.4711450 | 2992 | 3.4759616 |
| 2927 | 3.4664227 | 2960 | 3.4712917 | 2993 | 3.4761067 |
| 2928 | 3.4665711 | 2961 | 3.4714384 | 2994 | 3.4762518 |
| 2929 | 3.4667194 | 2962 | 3.4715851 | 2995 | 3.4763968 |
| 2930 | 3.4668676 | 2963 | 3.4717317 | 2996 | 3.4765418 |
| 2931 | 3.4670158 | 2964 | 3.4718782 | 2997 | 3.4766867 |
| 2932 | 3.4671640 | 2965 | 3.4720247 | 2998 | 3.4768316 |
| 2933 | 3.4673121 | 2966 | 3.4721711 | 2999 | 3.4769765 |
| 2934 | 3.4674601 | 2967 | 3.4723175 | 3000 | 3.4771212 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3001 | 3.4772660 | 3034 | 3.4820156 | 3067 | 3.4867138 |
| 3002 | 3.4774107 | 3035 | 3.4821587 | 3068 | 3.4868554 |
| 3003 | 3.4775553 | 3036 | 3.4823018 | 3069 | 3.4869969 |
| 3004 | 3.4776999 | 3037 | 3.4824448 | 3070 | 3.4871384 |
| 3005 | 3.4778445 | 3038 | 3.4825878 | 3071 | 3.4872798 |
| 3006 | 3.4779890 | 3039 | 3.4827307 | 3072 | 3.4874212 |
| 3007 | 3.4781334 | 3040 | 3.4828736 | 3073 | 3.4874626 |
| 3008 | 3.4782778 | 3041 | 3.4830164 | 3074 | 3.4877039 |
| 3009 | 3.4784222 | 3042 | 3.4831592 | 3075 | 3.4878451 |
| 3010 | 3.4785665 | 3043 | 3.4833019 | 3076 | 3.4879863 |
| 3011 | 3.4787108 | 3044 | 3.4834446 | 3077 | 3.4881275 |
| 3012 | 3.4788550 | 3045 | 3.4835873 | 3078 | 3.4882686 |
| 3013 | 3.4789991 | 3046 | 3.4837299 | 3079 | 3.4884097 |
| 3014 | 3.4791432 | 3047 | 3.4838725 | 3080 | 3.4885507 |
| 3015 | 3.4792873 | 3048 | 3.4840150 | 3081 | 3.4886917 |
| 3016 | 3.4794313 | 3049 | 3.4841574 | 3082 | 3.4888326 |
| 3017 | 3.4795753 | 3050 | 3.4842998 | 3083 | 3.4889735 |
| 3018 | 3.4797192 | 3051 | 3.4844422 | 3084 | 3.4891144 |
| 3019 | 3.4798631 | 3052 | 3.4845845 | 3085 | 3.4892552 |
| 3020 | 3.4800065 | 3053 | 3.4847268 | 3086 | 3.4893959 |
| 3021 | 3.4801507 | 3054 | 3.4848690 | 3087 | 3.4895366 |
| 3022 | 3.4802945 | 3055 | 3.4850112 | 3088 | 3.4896773 |
| 3023 | 3.4804381 | 3056 | 3.4851533 | 3089 | 3.4898179 |
| 3024 | 3.4805818 | 3057 | 3.4852954 | 3090 | 3.4899585 |
| 3025 | 3.4807254 | 3058 | 3.4854375 | 3091 | 3.4900990 |
| 3026 | 3.4808689 | 3059 | 3.4855795 | 3092 | 3.4902395 |
| 3027 | 3.4810124 | 3060 | 3.4857214 | 3093 | 3.4903799 |
| 3028 | 3.4811559 | 3061 | 3.4858633 | 3094 | 3.4905203 |
| 3029 | 3.4812993 | 3062 | 3.4860052 | 3095 | 3.4906607 |
| 3030 | 3.4814426 | 3063 | 3.4861470 | 3096 | 3.4908009 |
| 3031 | 3.4815859 | 3064 | 3.4862888 | 3097 | 3.4909412 |
| 3032 | 3.4817292 | 3065 | 3.4864305 | 3098 | 3.4910814 |
| 3033 | 3.4818724 | 3066 | 3.4865721 | 3099 | 3.4912216 |
| 3034 | 3.4820156 | 3067 | 3.4867138 | 3100 | 3.4913617 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3101 | 3.4915018 | 3134 | 3.4960990 | 3167 | 3.5006481 |
| 3102 | 3.4916418 | 3135 | 3.4962375 | 3168 | 3.5007851 |
| 3103 | 3.4917818 | 3136 | 3.4963761 | 3169 | 3.5009222 |
| 3104 | 3.4919217 | 3137 | 3.4965145 | 3170 | 3.5010593 |
| 3105 | 3.4920616 | 3138 | 3.4966529 | 3171 | 3.5011962 |
| 3106 | 3.4922014 | 3139 | 3.4967913 | 3172 | 3.5013332 |
| 3107 | 3.4923413 | 3140 | 3.4969296 | 3173 | 3.5014701 |
| 3108 | 3.4924810 | 3141 | 3.4970679 | 3174 | 3.5016069 |
| 3109 | 3.4926207 | 3142 | 3.4972062 | 3175 | 3.5017437 |
| 3110 | 3.4927604 | 3143 | 3.4973444 | 3176 | 3.5018805 |
| 3111 | 3.4929000 | 3144 | 3.4974825 | 3177 | 3.5020172 |
| 3112 | 3.4930396 | 3145 | 3.4976206 | 3178 | 3.5021539 |
| 3113 | 3.4931791 | 3146 | 3.4977587 | 3179 | 3.5022905 |
| 3114 | 3.4933186 | 3147 | 3.4978967 | 3180 | 3.5024271 |
| 3115 | 3.4934580 | 3148 | 3.4980347 | 3181 | 3.5025637 |
| 3116 | 3.4935974 | 3149 | 3.4981727 | 3182 | 3.5027002 |
| 3117 | 3.4937368 | 3150 | 3.4983106 | 3183 | 3.5028366 |
| 3118 | 3.4938761 | 3151 | 3.4984484 | 3184 | 3.5029731 |
| 3119 | 3.4940154 | 3152 | 3.4985862 | 3185 | 3.5031094 |
| 3120 | 3.4941546 | 3153 | 3.4987240 | 3186 | 3.5032458 |
| 3121 | 3.4942938 | 3154 | 3.4988617 | 3187 | 3.5033821 |
| 3122 | 3.4944329 | 3155 | 3.4989994 | 3188 | 3.5035183 |
| 3123 | 3.4945720 | 3156 | 3.4991370 | 3189 | 3.5036545 |
| 3124 | 3.4947110 | 3157 | 3.4992746 | 3190 | 3.5037907 |
| 3125 | 3.4948500 | 3158 | 3.4994121 | 3191 | 3.5039268 |
| 3126 | 3.4949890 | 3159 | 3.4995496 | 3192 | 3.5040629 |
| 3127 | 3.4951279 | 3160 | 3.4996871 | 3193 | 3.5041989 |
| 3128 | 3.4952667 | 3161 | 3.4998245 | 3194 | 3.5043349 |
| 3129 | 3.4954056 | 3162 | 3.4999619 | 3195 | 3.5044709 |
| 3130 | 3.4955443 | 3163 | 3.5000992 | 3196 | 3.5046068 |
| 3131 | 3.4956831 | 3164 | 3.5002365 | 3197 | 3.5047426 |
| 3132 | 3.4958218 | 3165 | 3.5003737 | 3198 | 3.5048785 |
| 3133 | 3.4959604 | 3166 | 3.5005109 | 3199 | 3.5050142 |
| 3134 | 3.4960990 | 3167 | 3.5006481 | 3200 | 3.5051500 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3201 | 3.5052857 | 3234 | 3.5097400 | 3267 | 3.5141491 |
| 3202 | 3.5054213 | 3235 | 3.5098743 | 3268 | 3.5142820 |
| 3203 | 3.5055569 | 3236 | 3.5100085 | 3269 | 3.5144149 |
| 3204 | 3.5056925 | 3237 | 3.5101427 | 3270 | 3.5145478 |
| 3205 | 3.5058280 | 3238 | 3.5102768 | 3271 | 3.5146805 |
| 3206 | 3.5059635 | 3239 | 3.5104109 | 3272 | 3.5148133 |
| 3207 | 3.5060990 | 3240 | 3.5105450 | 3273 | 3.5149460 |
| 3208 | 3.5062344 | 3241 | 3.5106790 | 3274 | 3.5150787 |
| 3209 | 3.5063697 | 3242 | 3.5108130 | 3275 | 3.5152113 |
| 3210 | 3.5065050 | 3243 | 3.5109469 | 3276 | 3.5153439 |
| 3211 | 3.5066403 | 3244 | 3.5110808 | 3277 | 3.5154764 |
| 3212 | 3.5067755 | 3245 | 3.5112147 | 3278 | 3.5156089 |
| 3213 | 3.5069107 | 3246 | 3.5113485 | 3279 | 3.5157414 |
| 3214 | 3.5070459 | 3247 | 3.5114823 | 3280 | 3.5158738 |
| 3215 | 3.5071810 | 3248 | 3.5116160 | 3281 | 3.5160062 |
| 3216 | 3.5073160 | 3249 | 3.5117497 | 3282 | 3.5161386 |
| 3217 | 3.5074511 | 3250 | 3.5118834 | 3283 | 3.5162709 |
| 3218 | 3.5075860 | 3251 | 3.5120170 | 3284 | 3.5164031 |
| 3219 | 3.5077210 | 3252 | 3.5121505 | 3285 | 3.5165354 |
| 3220 | 3.5078559 | 3253 | 3.5122841 | 3286 | 3.5166676 |
| 3221 | 3.5079907 | 3254 | 3.5124175 | 3287 | 3.5167997 |
| 3222 | 3.5081255 | 3255 | 3.5125510 | 3288 | 3.5169318 |
| 3223 | 3.5082603 | 3256 | 3.5126844 | 3289 | 3.5170639 |
| 3224 | 3.5083950 | 3257 | 3.5128178 | 3290 | 3.5171959 |
| 3225 | 3.5085297 | 3258 | 3.5129511 | 3291 | 3.5173279 |
| 3226 | 3.5086644 | 3259 | 3.5130844 | 3292 | 3.5174598 |
| 3227 | 3.5087990 | 3260 | 3.5132176 | 3293 | 3.5175917 |
| 3228 | 3.5089335 | 3261 | 3.5133508 | 3294 | 3.5177236 |
| 3229 | 3.5090680 | 3262 | 3.5134840 | 3295 | 3.5178554 |
| 3230 | 3.5092025 | 3263 | 3.5136171 | 3296 | 3.5179872 |
| 3231 | 3.5093370 | 3264 | 3.5137501 | 3297 | 3.5181189 |
| 3232 | 3.5094713 | 3265 | 3.5138832 | 3298 | 3.5182506 |
| 3233 | 3.5096057 | 3266 | 3.5140162 | 3299 | 3.5183823 |
| 3234 | 3.5097400 | 3267 | 3.5141491 | 3300 | 3.5185139 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3301 | 3.5186455 | 3334 | 3.5229656 | 3367 | 3.527243 |
| 3302 | 3.5187771 | 3335 | 3.5230958 | 3368 | 3.527372 |
| 3303 | 3.5189086 | 3336 | 3.5232260 | 3369 | 3.527501 |
| 3304 | 3.5190400 | 3337 | 3.5233562 | 3370 | 3.527629 |
| 3305 | 3.5191715 | 3338 | 3.5234863 | 3371 | 3.527758 |
| 3306 | 3.5193028 | 3339 | 3.5236164 | 3372 | 3.527887 |
| 3307 | 3.5194342 | 3340 | 3.5237465 | 3373 | 3.528016 |
| 3308 | 3.5195655 | 3341 | 3.5238765 | 3374 | 3.528145 |
| 3309 | 3.5196968 | 3342 | 3.5240064 | 3375 | 3.528274 |
| 3310 | 3.5198280 | 3343 | 3.5241364 | 3376 | 3.528402 |
| 3311 | 3.5199592 | 3344 | 3.5242663 | 3377 | 3.528531 |
| 3312 | 3.5200903 | 3345 | 3.5243961 | 3378 | 3.528660 |
| 3313 | 3.5202214 | 3346 | 3.5245259 | 3379 | 3.528789 |
| 3314 | 3.5203525 | 3347 | 3.5246557 | 3380 | 3.528918 |
| 3315 | 3.5204835 | 3348 | 3.5247854 | 3381 | 3.529047 |
| 3316 | 3.5206145 | 3349 | 3.5249151 | 3382 | 3.529176 |
| 3317 | 3.5207455 | 3350 | 3.5250448 | 3383 | 3.529305 |
| 3318 | 3.5208764 | 3351 | 3.5251744 | 3384 | 3.529434 |
| 3319 | 3.5210073 | 3352 | 3.5253040 | 3385 | 3.529563 |
| 3320 | 3.5211381 | 3353 | 3.5254335 | 3386 | 3.529692 |
| 3321 | 3.5212689 | 3354 | 3.5255631 | 3387 | 3.529821 |
| 3322 | 3.5213996 | 3355 | 3.5256925 | 3388 | 3.529950 |
| 3323 | 3.5215303 | 3356 | 3.5258219 | 3389 | 3.530079 |
| 3324 | 3.5216610 | 3357 | 3.5259513 | 3390 | 3.530208 |
| 3325 | 3.5217916 | 3358 | 3.5260807 | 3391 | 3.530337 |
| 3326 | 3.5219222 | 3359 | 3.5262100 | 3392 | 3.530466 |
| 3327 | 3.5220528 | 3360 | 3.5263393 | 3393 | 3.530595 |
| 3328 | 3.5221833 | 3361 | 3.5264685 | 3394 | 3.530724 |
| 3329 | 3.5223138 | 3362 | 3.5265977 | 3395 | 3.530853 |
| 3330 | 3.5224442 | 3363 | 3.5267269 | 3396 | 3.530982 |
| 3331 | 3.5225746 | 3364 | 3.5268560 | 3397 | 3.531111 |
| 3332 | 3.5227050 | 3365 | 3.5269851 | 3398 | 3.531240 |
| 3333 | 3.5228353 | 3366 | 3.5271141 | 3399 | 3.531369 |
| 3334 | 3.5229656 | 3367 | 3.5272431 | 3400 | 3.531498 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 401 | 3.5316066 | 3434 | 3.5358003 | 3467 | 3.5399538 |
| 402 | 3.5317343 | 3435 | 3.5359267 | 3468 | 3.5400791 |
| 403 | 3.5318619 | 3436 | 3.5360532 | 3469 | 3.5402043 |
| 404 | 3.5319895 | 3437 | 3.5361795 | 3470 | 3.5403295 |
| 405 | 3.5321171 | 3438 | 3.5363059 | 3471 | 3.5404546 |
| 406 | 3.5322446 | 3439 | 3.5364322 | 3472 | 3.5405797 |
| 407 | 3.5323721 | 3440 | 3.5365584 | 3473 | 3.5407048 |
| 408 | 3.5324996 | 3441 | 3.5366847 | 3474 | 3.5408298 |
| 409 | 3.5326270 | 3442 | 3.5368109 | 3475 | 3.5409548 |
| 410 | 3.5327544 | 3443 | 3.5369370 | 3476 | 3.5410798 |
| 411 | 3.5328817 | 3444 | 3.5370631 | 3477 | 3.5412047 |
| 412 | 3.5330090 | 3445 | 3.5371892 | 3478 | 3.5413296 |
| 413 | 3.5331363 | 3446 | 3.5373153 | 3479 | 3.5414544 |
| 414 | 3.5332635 | 3447 | 3.5374413 | 3480 | 3.5415792 |
| 415 | 3.5333907 | 3448 | 3.5375672 | 3481 | 3.5417040 |
| 416 | 3.5335179 | 3449 | 3.5376932 | 3482 | 3.5418288 |
| 417 | 3.5336450 | 3450 | 3.5378191 | 3483 | 3.5419535 |
| 418 | 3.5337721 | 3451 | 3.5379450 | 3484 | 3.5420781 |
| 419 | 3.5338991 | 3452 | 3.5380708 | 3485 | 3.5422028 |
| 420 | 3.5340261 | 3453 | 3.5381966 | 3486 | 3.5423274 |
| 3421 | 3.5341531 | 3454 | 3.5383223 | 3487 | 3.5424519 |
| 3422 | 3.5342800 | 3455 | 3.5384481 | 3488 | 3.5425765 |
| 3423 | 3.5344069 | 3456 | 3.5385737 | 3489 | 3.5427010 |
| 3424 | 3.5345338 | 3457 | 3.5386994 | 3490 | 3.5428254 |
| 3425 | 3.5346606 | 3458 | 3.5388250 | 3491 | 3.5429498 |
| 3426 | 3.5347874 | 3459 | 3.5389506 | 3492 | 3.5430742 |
| 3427 | 3.5349141 | 3460 | 3.5390761 | 3493 | 3.5431986 |
| 3428 | 3.5350408 | 3461 | 3.5392016 | 3494 | 3.5433229 |
| 3429 | 3.5351675 | 3462 | 3.5393271 | 3495 | 3.5434472 |
| 3430 | 3.5352941 | 3463 | 3.5394525 | 3496 | 3.5435714 |
| 3431 | 3.5354207 | 3464 | 3.5395779 | 3497 | 3.5436956 |
| 3432 | 3.5355473 | 3465 | 3.5397032 | 3498 | 3.5438198 |
| 3433 | 3.5356738 | 3466 | 3.5398286 | 3499 | 3.5439439 |
| 3434 | 3.5358003 | 3467 | 3.5399538 | 3500 | 3.5440680 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3501 | 3.5441921 | 3534 | 3.5482665 | 3567 | 3.552301 |
| 3502 | 3.5443161 | 3535 | 3.5483894 | 3568 | 3.552421 |
| 3503 | 3.5444401 | 3536 | 3.5485123 | 3569 | 3.552541 |
| 3504 | 3.5445641 | 3537 | 3.5486351 | 3570 | 3.552661 |
| 3505 | 3.5446880 | 3538 | 3.5487578 | 3571 | 3.552781 |
| 3506 | 3.5448119 | 3539 | 3.5488806 | 3572 | 3.552901 |
| 3507 | 3.5449358 | 3540 | 3.5490033 | 3573 | 3.553021 |
| 3508 | 3.5450596 | 3541 | 3.5491259 | 3574 | 3.553141 |
| 3509 | 3.5451834 | 3542 | 3.5492486 | 3575 | 3.553261 |
| 3510 | 3.5453071 | 3543 | 3.5493712 | 3576 | 3.553381 |
| 3511 | 3.5454308 | 3544 | 3.5494937 | 3577 | 3.553501 |
| 3512 | 3.5455545 | 3545 | 3.5496162 | 3578 | 3.553621 |
| 3513 | 3.5456781 | 3546 | 3.5497387 | 3579 | 3.553741 |
| 3514 | 3.5458018 | 3547 | 3.5498612 | 3580 | 3.553861 |
| 3515 | 3.5459253 | 3548 | 3.5499836 | 3581 | 3.553981 |
| 3516 | 3.5460489 | 3549 | 3.5501060 | 3582 | 3.554101 |
| 3517 | 3.5461724 | 3550 | 3.5502283 | 3583 | 3.554221 |
| 3518 | 3.5462958 | 3551 | 3.5503507 | 3584 | 3.554341 |
| 3519 | 3.5464193 | 3552 | 3.5504730 | 3585 | 3.554461 |
| 3520 | 3.5465427 | 3553 | 3.5505952 | 3586 | 3.554581 |
| 3521 | 3.5466660 | 3554 | 3.5507174 | 3587 | 3.554701 |
| 3522 | 3.5467894 | 3555 | 3.5508396 | 3588 | 3.554821 |
| 3523 | 3.5469126 | 3556 | 3.5509618 | 3589 | 3.554941 |
| 3524 | 3.5470359 | 3557 | 3.5510839 | 3590 | 3.555061 |
| 3525 | 3.5471591 | 3558 | 3.5512059 | 3591 | 3.555181 |
| 3526 | 3.5472823 | 3559 | 3.5513280 | 3592 | 3.555301 |
| 3527 | 3.5474055 | 3560 | 3.5514500 | 3593 | 3.555421 |
| 3528 | 3.5475286 | 3561 | 3.5515720 | 3594 | 3.555541 |
| 3529 | 3.5476517 | 3562 | 3.5516939 | 3595 | 3.555661 |
| 3530 | 3.5477747 | 3563 | 3.5518158 | 3596 | 3.555781 |
| 3531 | 3.5478977 | 3564 | 3.5519377 | 3597 | 3.555901 |
| 3532 | 3.5480207 | 3565 | 3.5520595 | 3598 | 3.556021 |
| 3533 | 3.5481436 | 3566 | 3.5521813 | 3599 | 3.556141 |
| 3534 | 3.5482665 | 3567 | 3.5523031 | 3600 | 3.556261 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|-----|-----------|------|-----------|------|-----------|
| 501 | 3.5564231 | 3634 | 3.5603849 | 3667 | 3.5643109 |
| 602 | 3.5565437 | 3635 | 3.5605044 | 3668 | 3.5644293 |
| 603 | 3.5566643 | 3636 | 3.5606239 | 3669 | 3.5645477 |
| 604 | 3.5567848 | 3637 | 3.5607433 | 3670 | 3.5646661 |
| 605 | 3.5569053 | 3638 | 3.5608627 | 3671 | 3.5647844 |
| 606 | 3.5570257 | 3639 | 3.5609820 | 3672 | 3.5649027 |
| 607 | 3.5571461 | 3640 | 3.5611014 | 3673 | 3.5650209 |
| 608 | 3.5572665 | 3641 | 3.5612207 | 3674 | 3.5651392 |
| 609 | 3.5573869 | 3642 | 3.5613399 | 3675 | 3.5652573 |
| 610 | 3.5575072 | 3643 | 3.5614592 | 3676 | 3.5653755 |
| 611 | 3.5576275 | 3644 | 3.5615784 | 3677 | 3.5654936 |
| 612 | 3.5577477 | 3645 | 3.5616975 | 3678 | 3.5656117 |
| 613 | 3.5578680 | 3646 | 3.5618167 | 3679 | 3.5657298 |
| 614 | 3.5579881 | 3647 | 3.5619358 | 3680 | 3.5658478 |
| 615 | 3.5581083 | 3648 | 3.5620548 | 3681 | 3.5659658 |
| 616 | 3.5582284 | 3649 | 3.5621739 | 3682 | 3.5660838 |
| 617 | 3.5583485 | 3650 | 3.5622929 | 3683 | 3.5662017 |
| 618 | 3.5584686 | 3651 | 3.5624118 | 3684 | 3.5663196 |
| 619 | 3.5585886 | 3652 | 3.5625308 | 3685 | 3.5664375 |
| 620 | 3.5587086 | 3653 | 3.5626497 | 3686 | 3.5665553 |
| 621 | 3.5588285 | 3654 | 3.5627685 | 3687 | 3.5666731 |
| 622 | 3.5589484 | 3655 | 3.5628874 | 3688 | 3.5667909 |
| 623 | 3.5590683 | 3656 | 3.5630062 | 3689 | 3.5669087 |
| 624 | 3.5591882 | 3657 | 3.5631250 | 3690 | 3.5670264 |
| 625 | 3.5593080 | 3658 | 3.5632437 | 3691 | 3.5671440 |
| 626 | 3.5594278 | 3659 | 3.5633624 | 3692 | 3.5672617 |
| 627 | 3.5595476 | 3660 | 3.5634811 | 3693 | 3.5673793 |
| 628 | 3.5596673 | 3661 | 3.5635997 | 3694 | 3.5674969 |
| 629 | 3.5597870 | 3662 | 3.5637183 | 3695 | 3.5676144 |
| 630 | 3.5599066 | 3663 | 3.5638369 | 3696 | 3.5677320 |
| 631 | 3.5600262 | 3664 | 3.5639555 | 3697 | 3.5678494 |
| 632 | 3.5601458 | 3665 | 3.5640740 | 3698 | 3.5679669 |
| 633 | 3.5602654 | 3666 | 3.5641925 | 3699 | 3.5680843 |
| 634 | 3.5603849 | 3667 | 3.5643109 | 3700 | 3.5682017 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 3701 | 3.5683191 | 3734 | 3.5721743 | 3767 | 3.5759956 |
| 3702 | 3.5684364 | 3735 | 3.5722906 | 3768 | 3.5761109 |
| 3703 | 3.5685537 | 3736 | 3.5724069 | 3769 | 3.5762261 |
| 3704 | 3.5686710 | 3737 | 3.5725231 | 3770 | 3.5763413 |
| 3705 | 3.5687882 | 3738 | 3.5726393 | 3771 | 3.5764565 |
| 3706 | 3.5689054 | 3739 | 3.5727555 | 3772 | 3.5765717 |
| 3707 | 3.5690226 | 3740 | 3.5728716 | 3773 | 3.5766868 |
| 3708 | 3.5691397 | 3741 | 3.5729877 | 3774 | 3.5768019 |
| 3709 | 3.5692568 | 3742 | 3.5731038 | 3775 | 3.5769169 |
| 3710 | 3.5693739 | 3743 | 3.5732198 | 3776 | 3.5770320 |
| 3711 | 3.5694910 | 3744 | 3.5733358 | 3777 | 3.5771470 |
| 3712 | 3.5696080 | 3745 | 3.5734518 | 3778 | 3.5772620 |
| 3713 | 3.5697249 | 3746 | 3.5735678 | 3779 | 3.5773769 |
| 3714 | 3.5698419 | 3747 | 3.5736837 | 3780 | 3.5774918 |
| 3715 | 3.5699588 | 3748 | 3.5737996 | 3781 | 3.5776067 |
| 3716 | 3.5700757 | 3749 | 3.5739154 | 3782 | 3.5777215 |
| 3717 | 3.5701926 | 3750 | 3.5740313 | 3783 | 3.5778363 |
| 3718 | 3.5703094 | 3751 | 3.5741471 | 3784 | 3.5779511 |
| 3719 | 3.5704262 | 3752 | 3.5742628 | 3785 | 3.5780659 |
| 3720 | 3.5705429 | 3753 | 3.5743786 | 3786 | 3.5781806 |
| 3721 | 3.5706597 | 3754 | 3.5744943 | 3787 | 3.5782953 |
| 3722 | 3.5707764 | 3755 | 3.5746099 | 3788 | 3.5784100 |
| 3723 | 3.5708930 | 3756 | 3.5747256 | 3789 | 3.5785246 |
| 3724 | 3.5710097 | 3757 | 3.5748412 | 3790 | 3.5786392 |
| 3725 | 3.5711263 | 3758 | 3.5749568 | 3791 | 3.5787538 |
| 3726 | 3.5712428 | 3759 | 3.5750723 | 3792 | 3.5788683 |
| 3727 | 3.5713594 | 3760 | 3.5751878 | 3793 | 3.5789828 |
| 3728 | 3.5714759 | 3761 | 3.5753033 | 3794 | 3.5790973 |
| 3729 | 3.5715924 | 3762 | 3.5754188 | 3795 | 3.5792118 |
| 3730 | 3.5717088 | 3763 | 3.5755342 | 3796 | 3.5793262 |
| 3731 | 3.5718252 | 3764 | 3.5756496 | 3797 | 3.5794406 |
| 3732 | 3.5719416 | 3765 | 3.5757650 | 3798 | 3.5795550 |
| 3733 | 3.5720580 | 3766 | 3.5758803 | 3799 | 3.5796693 |
| 3734 | 3.5721743 | 3767 | 3.5759956 | 3800 | 3.5797836 |

| J. | Logarith. | N. | Logarith. | N. | Logarith. |
|----|-----------|------|-----------|------|-----------|
| 01 | 3.5798979 | 3834 | 3.5836521 | 3867 | 3.5873742 |
| 02 | 3.5800121 | 3835 | 3.5837654 | 3868 | 3.5874865 |
| 03 | 3.5801263 | 3836 | 3.5838786 | 3869 | 3.5875987 |
| 04 | 3.5802405 | 3837 | 3.5839918 | 3870 | 3.5877110 |
| 05 | 3.5803547 | 3838 | 3.5841050 | 3871 | 3.5878232 |
| 06 | 3.5804688 | 3839 | 3.5842181 | 3872 | 3.5879353 |
| 07 | 3.5805829 | 3840 | 3.5843312 | 3873 | 3.5880475 |
| 08 | 3.5806969 | 3841 | 3.5844443 | 3874 | 3.5881596 |
| 09 | 3.5808110 | 3842 | 3.5845574 | 3875 | 3.5882717 |
| 10 | 3.5809250 | 3843 | 3.5846704 | 3876 | 3.5883838 |
| 11 | 3.5810389 | 3844 | 3.5847834 | 3877 | 3.5884958 |
| 12 | 3.5811529 | 3845 | 3.5848963 | 3878 | 3.5886078 |
| 13 | 3.5812668 | 3846 | 3.5850093 | 3879 | 3.5887198 |
| 14 | 3.5813807 | 3847 | 3.5851222 | 3880 | 3.5888317 |
| 15 | 3.5814945 | 3848 | 3.5852351 | 3881 | 3.5889436 |
| 16 | 3.5816084 | 3849 | 3.5853479 | 3882 | 3.5890555 |
| 17 | 3.5817222 | 3850 | 3.5854607 | 3883 | 3.5891674 |
| 18 | 3.5818359 | 3851 | 3.5855735 | 3884 | 3.5892792 |
| 19 | 3.5819497 | 3852 | 3.5856863 | 3885 | 3.5893910 |
| 20 | 3.5820634 | 3853 | 3.5857990 | 3886 | 3.5895028 |
| 21 | 3.5821770 | 3854 | 3.5859117 | 3887 | 3.5896145 |
| 22 | 3.5822907 | 3855 | 3.5860244 | 3888 | 3.5897262 |
| 23 | 3.5824043 | 3856 | 3.5861370 | 3889 | 3.5898379 |
| 24 | 3.5825179 | 3857 | 3.5862496 | 3890 | 3.5899496 |
| 25 | 3.5826314 | 3858 | 3.5863622 | 3891 | 3.5900612 |
| 26 | 3.5827450 | 3859 | 3.5864748 | 3892 | 3.5901728 |
| 27 | 3.5828585 | 3860 | 3.5865873 | 3893 | 3.5902844 |
| 28 | 3.5829719 | 3861 | 3.5866998 | 3894 | 3.5903959 |
| 29 | 3.5830854 | 3862 | 3.5868123 | 3895 | 3.5905075 |
| 30 | 3.5831988 | 3863 | 3.5869247 | 3896 | 3.5906189 |
| 31 | 3.5833122 | 3864 | 3.5870371 | 3897 | 3.5907304 |
| 32 | 3.5834255 | 3865 | 3.5871495 | 3898 | 3.5908418 |
| 33 | 3.5835388 | 3866 | 3.5872618 | 3899 | 3.5909532 |
| 34 | 3.5836521 | 3867 | 3.5873742 | 3900 | 3.5910646 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3901 | 3.5911759 | 3934 | 3.5948344 | 3967 | 3.5984622 |
| 3902 | 3.5912873 | 3935 | 3.5949447 | 3968 | 3.5985717 |
| 3903 | 3.5913985 | 3936 | 3.5950551 | 3969 | 3.5986811 |
| 3904 | 3.5915098 | 3937 | 3.5951654 | 3970 | 3.5987905 |
| 3905 | 3.5916210 | 3938 | 3.5952757 | 3971 | 3.5988999 |
| 3906 | 3.5917322 | 3939 | 3.5953860 | 3972 | 3.5990092 |
| 3907 | 3.5918434 | 3940 | 3.5954962 | 3973 | 3.5991186 |
| 3908 | 3.5919546 | 3941 | 3.5956064 | 3974 | 3.5992279 |
| 3909 | 3.5920657 | 3942 | 3.5957166 | 3975 | 3.5993371 |
| 3910 | 3.5921768 | 3943 | 3.5958268 | 3976 | 3.5994464 |
| 3911 | 3.5922878 | 3944 | 3.5959369 | 3977 | 3.5995556 |
| 3912 | 3.5923988 | 3945 | 3.5960470 | 3978 | 3.5996648 |
| 3913 | 3.5925098 | 3946 | 3.5961571 | 3979 | 3.5997739 |
| 3914 | 3.5926208 | 3947 | 3.5962671 | 3980 | 3.5998831 |
| 3915 | 3.5927318 | 3948 | 3.5963771 | 3981 | 3.5999922 |
| 3916 | 3.5928427 | 3949 | 3.5964871 | 3982 | 3.6001013 |
| 3917 | 3.5929536 | 3950 | 3.5965971 | 3983 | 3.6002103 |
| 3918 | 3.5930644 | 3951 | 3.5967070 | 3984 | 3.6003193 |
| 3919 | 3.5931753 | 3952 | 3.5968169 | 3985 | 3.6004283 |
| 3920 | 3.5932861 | 3953 | 3.5969268 | 3986 | 3.6005373 |
| 3921 | 3.5933968 | 3954 | 3.5970367 | 3987 | 3.6006462 |
| 3922 | 3.5935076 | 3955 | 3.5971465 | 3988 | 3.6007551 |
| 3923 | 3.5936183 | 3956 | 3.5972563 | 3989 | 3.6008640 |
| 3924 | 3.5937290 | 3957 | 3.5973660 | 3990 | 3.6009729 |
| 3925 | 3.5938397 | 3958 | 3.5974758 | 3991 | 3.6010817 |
| 3926 | 3.5939503 | 3959 | 3.5975855 | 3992 | 3.6011905 |
| 3927 | 3.5940609 | 3960 | 3.5976952 | 3993 | 3.6012993 |
| 3928 | 3.5941715 | 3961 | 3.5978048 | 3994 | 3.6014080 |
| 3929 | 3.5942820 | 3962 | 3.5979145 | 3995 | 3.6015168 |
| 3930 | 3.5943925 | 3963 | 3.5980241 | 3996 | 3.6016255 |
| 3931 | 3.5945030 | 3964 | 3.5981336 | 3997 | 3.6017341 |
| 3932 | 3.5946135 | 3965 | 3.5982432 | 3998 | 3.6018428 |
| 3933 | 3.5947239 | 3966 | 3.5983527 | 3999 | 3.6019514 |
| 3934 | 3.5948344 | 3967 | 3.5984622 | 4000 | 3.6020600 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4001 | 3.6021685 | 4034 | 3.6057359 | 4067 | 3.6092742 |
| 4002 | 3.6022771 | 4035 | 3.6058435 | 4068 | 3.6093809 |
| 4003 | 3.6023856 | 4036 | 3.6059512 | 4069 | 3.6094877 |
| 4004 | 3.6024941 | 4037 | 3.6060587 | 4070 | 3.6095944 |
| 4005 | 3.6026025 | 4038 | 3.6061663 | 4071 | 3.6097011 |
| 4006 | 3.6027109 | 4039 | 3.6062738 | 4072 | 3.6098078 |
| 4007 | 3.6028193 | 4040 | 3.6063814 | 4073 | 3.6099144 |
| 4008 | 3.6029277 | 4041 | 3.6064888 | 4074 | 3.6100210 |
| 4009 | 3.6030361 | 4042 | 3.6065963 | 4075 | 3.6101276 |
| 4010 | 3.6031444 | 4043 | 3.6067037 | 4076 | 3.6102342 |
| 4011 | 3.6032527 | 4044 | 3.6068111 | 4077 | 3.6103407 |
| 4012 | 3.6033609 | 4045 | 3.6069185 | 4078 | 3.6104472 |
| 4013 | 3.6034692 | 4046 | 3.6070259 | 4079 | 3.6105537 |
| 4014 | 3.6035774 | 4047 | 3.6071332 | 4080 | 3.6106602 |
| 4015 | 3.6036855 | 4048 | 3.6072405 | 4081 | 3.6107666 |
| 4016 | 3.6037937 | 4049 | 3.6073478 | 4082 | 3.6108730 |
| 4017 | 3.6039018 | 4050 | 3.6074550 | 4083 | 3.6109794 |
| 4018 | 3.6040099 | 4051 | 3.6075622 | 4084 | 3.6110857 |
| 4019 | 3.6041180 | 4052 | 3.6076694 | 4085 | 3.6111921 |
| 4020 | 3.6042261 | 4053 | 3.6077766 | 4086 | 3.6112984 |
| 4021 | 3.6043341 | 4054 | 3.6078837 | 4087 | 3.6114046 |
| 4022 | 3.6044421 | 4055 | 3.6079909 | 4088 | 3.6115109 |
| 4023 | 3.6045500 | 4056 | 3.6080979 | 4089 | 3.6116171 |
| 4024 | 3.6046580 | 4057 | 3.6082050 | 4090 | 3.6117233 |
| 4025 | 3.6047659 | 4058 | 3.6083120 | 4091 | 3.6118295 |
| 4026 | 3.6048738 | 4059 | 3.6084190 | 4092 | 3.6119356 |
| 4027 | 3.6049816 | 4060 | 3.6085260 | 4093 | 3.6120417 |
| 4028 | 3.6050895 | 4061 | 3.6086330 | 4094 | 3.6121478 |
| 4029 | 3.6051973 | 4062 | 3.6087399 | 4095 | 3.6122539 |
| 4030 | 3.6053050 | 4063 | 3.6088468 | 4096 | 3.6123599 |
| 4031 | 3.6054128 | 4064 | 3.6089537 | 4097 | 3.6124660 |
| 4032 | 3.6055205 | 4065 | 3.6090605 | 4098 | 3.6125720 |
| 4033 | 3.6056282 | 4066 | 3.6091674 | 4099 | 3.6126779 |
| 4034 | 3.6057359 | 4067 | 3.6092742 | 4100 | 3.6127839 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4101 | 3.6128898 | 4134 | 3.6163705 | 4167 | 3.6198235 |
| 4102 | 3.6129957 | 4135 | 3.6164755 | 4168 | 3.6199277 |
| 4103 | 3.6131015 | 4136 | 3.6165805 | 4169 | 3.6200319 |
| 4104 | 3.6132073 | 4137 | 3.6166855 | 4170 | 3.6201360 |
| 4105 | 3.6133132 | 4138 | 3.6167905 | 4171 | 3.6202402 |
| 4106 | 3.6134189 | 4139 | 3.6168954 | 4172 | 3.6203443 |
| 4107 | 3.6135247 | 4140 | 3.6170003 | 4173 | 3.6204484 |
| 4108 | 3.6136304 | 4141 | 3.6171052 | 4174 | 3.6205524 |
| 4109 | 3.6137361 | 4142 | 3.6172101 | 4175 | 3.6206565 |
| 4110 | 3.6138418 | 4143 | 3.6173149 | 4176 | 3.6207605 |
| 4111 | 3.6139475 | 4144 | 3.6174197 | 4177 | 3.6208645 |
| 4112 | 3.6140531 | 4145 | 3.6175245 | 4178 | 3.6209684 |
| 4113 | 3.6141587 | 4146 | 3.6176293 | 4179 | 3.6210724 |
| 4114 | 3.6142643 | 4147 | 3.6177340 | 4180 | 3.6211763 |
| 4115 | 3.6143698 | 4148 | 3.6178387 | 4181 | 3.6212802 |
| 4116 | 3.6144754 | 4149 | 3.6179434 | 4182 | 3.6213840 |
| 4117 | 3.6145809 | 4150 | 3.6180481 | 4183 | 3.6214879 |
| 4118 | 3.6146863 | 4151 | 3.6181527 | 4184 | 3.6215917 |
| 4119 | 3.6147918 | 4152 | 3.6182573 | 4185 | 3.6216955 |
| 4120 | 3.6148972 | 4153 | 3.6183619 | 4186 | 3.6217992 |
| 4121 | 3.6150026 | 4154 | 3.6184665 | 4187 | 3.6219030 |
| 4122 | 3.6151080 | 4155 | 3.6185710 | 4188 | 3.6220067 |
| 4123 | 3.6152133 | 4156 | 3.6186755 | 4189 | 3.6221104 |
| 4124 | 3.6153187 | 4157 | 3.6187800 | 4190 | 3.6222140 |
| 4125 | 3.6154240 | 4158 | 3.6188845 | 4191 | 3.6223177 |
| 4126 | 3.6155292 | 4159 | 3.6189889 | 4192 | 3.6224213 |
| 4127 | 3.6156345 | 4160 | 3.6190933 | 4193 | 3.6225249 |
| 4128 | 3.6157397 | 4161 | 3.6191977 | 4194 | 3.6226284 |
| 4129 | 3.6158449 | 4162 | 3.6193021 | 4195 | 3.6227320 |
| 4130 | 3.6159501 | 4163 | 3.6194064 | 4196 | 3.6228355 |
| 4131 | 3.6160552 | 4164 | 3.6195107 | 4197 | 3.6229390 |
| 4132 | 3.6161603 | 4165 | 3.6196150 | 4198 | 3.6230424 |
| 4133 | 3.6162654 | 4166 | 3.6197193 | 4199 | 3.6231459 |
| 4134 | 3.6163705 | 4167 | 3.6198235 | 4200 | 3.6232493 |

4200

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 4201 | 3.6233527 | 4234 | 3.6267509 | 4267 | 3.6301226 |
| 4202 | 3.6234560 | 4235 | 3.6268534 | 4268 | 3.6302244 |
| 4203 | 3.6235594 | 4236 | 3.6269559 | 4269 | 3.6303262 |
| 4204 | 3.6236627 | 4237 | 3.6270585 | 4270 | 3.6304279 |
| 4205 | 3.6237660 | 4238 | 3.6271610 | 4271 | 3.6305296 |
| 4206 | 3.6238693 | 4239 | 3.6272634 | 4272 | 3.6306312 |
| 4207 | 3.6239725 | 4240 | 3.6273659 | 4273 | 3.6307329 |
| 4208 | 3.6240757 | 4241 | 3.6274683 | 4274 | 3.6308345 |
| 4209 | 3.6241789 | 4242 | 3.6275707 | 4275 | 3.6309361 |
| 4210 | 3.6242821 | 4243 | 3.6276730 | 4276 | 3.6310377 |
| 4211 | 3.6243852 | 4244 | 3.6277754 | 4277 | 3.6311392 |
| 4212 | 3.6244884 | 4245 | 3.6278777 | 4278 | 3.6312408 |
| 4213 | 3.6245915 | 4246 | 3.6279800 | 4279 | 3.6313423 |
| 4214 | 3.6246945 | 4247 | 3.6280823 | 4280 | 3.6314438 |
| 4215 | 3.6247976 | 4248 | 3.6281845 | 4281 | 3.6315452 |
| 4216 | 3.6249006 | 4249 | 3.6282867 | 4282 | 3.6316467 |
| 4217 | 3.6250036 | 4250 | 3.6283889 | 4283 | 3.6317481 |
| 4218 | 3.6251066 | 4251 | 3.6284911 | 4284 | 3.6318495 |
| 4219 | 3.6252095 | 4252 | 3.6285933 | 4285 | 3.6319508 |
| 4220 | 3.6253124 | 4253 | 3.6286954 | 4286 | 3.6320522 |
| 4221 | 3.6254153 | 4254 | 3.6287975 | 4287 | 3.6321535 |
| 4222 | 3.6255182 | 4255 | 3.6288996 | 4288 | 3.6322548 |
| 4223 | 3.6256211 | 4256 | 3.6290016 | 4289 | 3.6323560 |
| 4224 | 3.6257239 | 4257 | 3.6291036 | 4290 | 3.6324573 |
| 4225 | 3.6258267 | 4258 | 3.6292057 | 4291 | 3.6325585 |
| 4226 | 3.6259295 | 4259 | 3.6293076 | 4292 | 3.6326597 |
| 4227 | 3.6260322 | 4260 | 3.6294096 | 4293 | 3.6327609 |
| 4228 | 3.6261350 | 4261 | 3.6295115 | 4294 | 3.6328620 |
| 4229 | 3.6262377 | 4262 | 3.6296134 | 4295 | 3.6329632 |
| 4230 | 3.6263404 | 4263 | 3.6297153 | 4296 | 3.6330643 |
| 4231 | 3.6264430 | 4264 | 3.6298172 | 4297 | 3.6331653 |
| 4232 | 3.6265457 | 4265 | 3.6299190 | 4298 | 3.6332664 |
| 4233 | 3.6266483 | 4266 | 3.6300208 | 4299 | 3.6333674 |
| 4234 | 3.6267509 | 4267 | 3.6301226 | 4300 | 3.6334685 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 4301 | 3.6335694 | 4334 | 3.6368889 | 4367 | 3.6401832 |
| 4302 | 3.6336704 | 4335 | 3.6369891 | 4368 | 3.6402826 |
| 4303 | 3.6337713 | 4336 | 3.6370893 | 4369 | 3.6403820 |
| 4304 | 3.6338723 | 4337 | 3.6371894 | 4370 | 3.6404814 |
| 4305 | 3.6339732 | 4338 | 3.6372895 | 4371 | 3.6405808 |
| 4306 | 3.6340740 | 4339 | 3.6373896 | 4372 | 3.6406802 |
| 4307 | 3.6341749 | 4340 | 3.6374897 | 4373 | 3.6407795 |
| 4308 | 3.6342757 | 4341 | 3.6375898 | 4374 | 3.6408788 |
| 4309 | 3.6343765 | 4342 | 3.6376898 | 4375 | 3.6409781 |
| 4310 | 3.6344773 | 4343 | 3.6377898 | 4376 | 3.6410773 |
| 4311 | 3.6345780 | 4344 | 3.6378898 | 4377 | 3.6411765 |
| 4312 | 3.6346788 | 4345 | 3.6379898 | 4378 | 3.6412758 |
| 4313 | 3.6347795 | 4346 | 3.6380897 | 4379 | 3.6413749 |
| 4314 | 3.6348801 | 4347 | 3.6381896 | 4380 | 3.6414741 |
| 4315 | 3.6349808 | 4348 | 3.6382895 | 4381 | 3.6415733 |
| 4316 | 3.6350814 | 4349 | 3.6383894 | 4382 | 3.6416724 |
| 4317 | 3.6351820 | 4350 | 3.6384893 | 4383 | 3.6417715 |
| 4318 | 3.6352826 | 4351 | 3.6385891 | 4384 | 3.6418705 |
| 4319 | 3.6353832 | 4352 | 3.6386889 | 4385 | 3.6419696 |
| 4320 | 3.6354837 | 4353 | 3.6387887 | 4386 | 3.6420686 |
| 4321 | 3.6355843 | 4354 | 3.6388884 | 4387 | 3.6421676 |
| 4322 | 3.6356848 | 4355 | 3.6389882 | 4388 | 3.6422666 |
| 4323 | 3.6357852 | 4356 | 3.6390879 | 4389 | 3.6423656 |
| 4324 | 3.6358857 | 4357 | 3.6391876 | 4390 | 3.6424645 |
| 4325 | 3.6359861 | 4358 | 3.6392872 | 4391 | 3.6425634 |
| 4326 | 3.6360865 | 4359 | 3.6393869 | 4392 | 3.6426623 |
| 4327 | 3.6361869 | 4360 | 3.6394865 | 4393 | 3.6427612 |
| 4328 | 3.6362872 | 4361 | 3.6395861 | 4394 | 3.6428601 |
| 4329 | 3.6363876 | 4362 | 3.6396857 | 4395 | 3.6429589 |
| 4330 | 3.6364879 | 4363 | 3.6397852 | 4396 | 3.6430577 |
| 4331 | 3.6365882 | 4364 | 3.6398847 | 4397 | 3.6431565 |
| 4332 | 3.6366884 | 4365 | 3.6399842 | 4398 | 3.6432552 |
| 4333 | 3.6367887 | 4366 | 3.6400837 | 4399 | 3.6433540 |
| 4334 | 3.6368889 | 4367 | 3.6401832 | 4400 | 3.6434527 |

4400

| N. | Logarithm. | N. | Logarithm. | N. | Logarithm. |
|------|------------|------|------------|------|------------|
| 4401 | 3.6435514 | 4434 | 3.6467957 | 4467 | 3.6500160 |
| 4402 | 3.6436500 | 4435 | 3.6468936 | 4468 | 3.6501132 |
| 4403 | 3.6437487 | 4436 | 3.6469915 | 4469 | 3.6502104 |
| 4404 | 3.6438473 | 4437 | 3.6470894 | 4470 | 3.6503075 |
| 4405 | 3.6439459 | 4438 | 3.6471873 | 4471 | 3.6504047 |
| 4406 | 3.6440445 | 4439 | 3.6472851 | 4472 | 3.6505018 |
| 4407 | 3.6441430 | 4440 | 3.6473830 | 4473 | 3.6505989 |
| 4408 | 3.6442416 | 4441 | 3.6474808 | 4474 | 3.6506960 |
| 4409 | 3.6443401 | 4442 | 3.6475785 | 4475 | 3.6507930 |
| 4410 | 3.6444386 | 4443 | 3.6476763 | 4476 | 3.6508901 |
| 4411 | 3.6445371 | 4444 | 3.6477740 | 4477 | 3.6509871 |
| 4412 | 3.6446355 | 4445 | 3.6478718 | 4478 | 3.6510841 |
| 4413 | 3.6447339 | 4446 | 3.6479695 | 4479 | 3.6511811 |
| 4414 | 3.6448323 | 4447 | 3.6480671 | 4480 | 3.6512780 |
| 4415 | 3.6449307 | 4448 | 3.6481648 | 4481 | 3.6513749 |
| 4416 | 3.6450291 | 4449 | 3.6482624 | 4482 | 3.6514719 |
| 4417 | 3.6451274 | 4450 | 3.6483600 | 4483 | 3.6515687 |
| 4418 | 3.6452257 | 4451 | 3.6484576 | 4484 | 3.6516656 |
| 4419 | 3.6453240 | 4452 | 3.6485552 | 4485 | 3.6517624 |
| 4420 | 3.6454223 | 4453 | 3.6486527 | 4486 | 3.6518593 |
| 4421 | 3.6455205 | 4454 | 3.6487502 | 4487 | 3.6519561 |
| 4422 | 3.6456187 | 4455 | 3.6488477 | 4488 | 3.6520528 |
| 4423 | 3.6457169 | 4456 | 3.6489452 | 4489 | 3.6521496 |
| 4424 | 3.6458151 | 4457 | 3.6490426 | 4490 | 3.6522463 |
| 4425 | 3.6459133 | 4458 | 3.6491401 | 4491 | 3.6523430 |
| 4426 | 3.6460114 | 4459 | 3.6492375 | 4492 | 3.6524397 |
| 4427 | 3.6461095 | 4460 | 3.6493349 | 4493 | 3.6525364 |
| 4428 | 3.6462076 | 4461 | 3.6494322 | 4494 | 3.6526331 |
| 4429 | 3.6463057 | 4462 | 3.6495296 | 4495 | 3.6527297 |
| 4430 | 3.6464037 | 4463 | 3.6496269 | 4496 | 3.6528263 |
| 4431 | 3.6465017 | 4464 | 3.6497242 | 4497 | 3.6529229 |
| 4432 | 3.6465997 | 4465 | 3.6498215 | 4498 | 3.6530195 |
| 4433 | 3.6466977 | 4466 | 3.6499187 | 4499 | 3.6531160 |
| 4434 | 3.6467957 | 4467 | 3.6500160 | 4500 | 3.6532125 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4501 | 3.6533090 | 4534 | 3.6564815 | 4567 | 3.6596310 |
| 4502 | 3.6534055 | 4535 | 3.6565773 | 4568 | 3.6597261 |
| 4503 | 3.6535019 | 4536 | 3.6566730 | 4569 | 3.6598212 |
| 4504 | 3.6535984 | 4537 | 3.6567688 | 4570 | 3.6599162 |
| 4505 | 3.6536948 | 4538 | 3.6568645 | 4571 | 3.6600112 |
| 4506 | 3.6537912 | 4539 | 3.6569602 | 4572 | 3.6601062 |
| 4507 | 3.6538876 | 4540 | 3.6570550 | 4573 | 3.6602012 |
| 4508 | 3.6539839 | 4541 | 3.6571515 | 4574 | 3.6602962 |
| 4509 | 3.6540802 | 4542 | 3.6572471 | 4575 | 3.6603911 |
| 4510 | 3.6541765 | 4543 | 3.6573427 | 4576 | 3.6604860 |
| 4511 | 3.6542728 | 4544 | 3.6574383 | 4577 | 3.6605809 |
| 4512 | 3.6543691 | 4545 | 3.6575339 | 4578 | 3.6606758 |
| 4513 | 3.6544653 | 4546 | 3.6576294 | 4579 | 3.6607706 |
| 4514 | 3.6545616 | 4547 | 3.6577250 | 4580 | 3.6608655 |
| 4515 | 3.6546578 | 4548 | 3.6578205 | 4581 | 3.6609603 |
| 4516 | 3.6547539 | 4549 | 3.6579159 | 4582 | 3.6610551 |
| 4517 | 3.6548501 | 4550 | 3.6580114 | 4583 | 3.6611499 |
| 4518 | 3.6549462 | 4551 | 3.6581068 | 4584 | 3.6612446 |
| 4519 | 3.6550423 | 4552 | 3.6582023 | 4585 | 3.6613393 |
| 4520 | 3.6551384 | 4553 | 3.6582976 | 4586 | 3.6614340 |
| 4521 | 3.6552345 | 4554 | 3.6583930 | 4587 | 3.6615287 |
| 4522 | 3.6553306 | 4555 | 3.6584884 | 4588 | 3.6616234 |
| 4523 | 3.6554266 | 4556 | 3.6585837 | 4589 | 3.6617181 |
| 4524 | 3.6555226 | 4557 | 3.6586790 | 4590 | 3.6618127 |
| 4525 | 3.6556186 | 4558 | 3.6587743 | 4591 | 3.6619073 |
| 4526 | 3.6557145 | 4559 | 3.6588696 | 4592 | 3.6620019 |
| 4527 | 3.6558105 | 4560 | 3.6589648 | 4593 | 3.6620964 |
| 4528 | 3.6559064 | 4561 | 3.6590601 | 4594 | 3.6621910 |
| 4529 | 3.6560023 | 4562 | 3.6591553 | 4595 | 3.6622855 |
| 4530 | 3.6560982 | 4563 | 3.6592505 | 4596 | 3.6623800 |
| 4531 | 3.6561941 | 4564 | 3.6593456 | 4597 | 3.6624745 |
| 4532 | 3.6562899 | 4565 | 3.6594408 | 4598 | 3.6625690 |
| 4533 | 3.6563857 | 4566 | 3.6595359 | 4599 | 3.6626634 |
| 4534 | 3.6564815 | 4567 | 3.6596310 | 4600 | 3.6627578 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4601 | 3.6628522 | 4634 | 3.6659560 | 4667 | 3.6690378 |
| 4602 | 3.6629466 | 4635 | 3.6660497 | 4668 | 3.6691308 |
| 4603 | 3.6630410 | 4636 | 3.6661434 | 4669 | 3.6692239 |
| 4604 | 3.6631353 | 4637 | 3.6662371 | 4670 | 3.6693169 |
| 4605 | 3.6632296 | 4638 | 3.6663307 | 4671 | 3.6694099 |
| 4606 | 3.6633239 | 4639 | 3.6664244 | 4672 | 3.6695028 |
| 4607 | 3.6634182 | 4640 | 3.6665180 | 4673 | 3.6695958 |
| 4608 | 3.6635125 | 4641 | 3.6666116 | 4674 | 3.6696887 |
| 4609 | 3.6636067 | 4642 | 3.6667051 | 4675 | 3.6697816 |
| 4610 | 3.6637009 | 4643 | 3.6667987 | 4676 | 3.6698745 |
| 4611 | 3.6637951 | 4644 | 3.6668922 | 4677 | 3.6699674 |
| 4612 | 3.6638893 | 4645 | 3.6669857 | 4678 | 3.6700602 |
| 4613 | 3.6639835 | 4646 | 3.6670792 | 4679 | 3.6701530 |
| 4614 | 3.6640776 | 4647 | 3.6671727 | 4680 | 3.6702459 |
| 4615 | 3.6641717 | 4648 | 3.6672661 | 4681 | 3.6703386 |
| 4616 | 3.6642658 | 4649 | 3.6673595 | 4682 | 3.6704314 |
| 4617 | 3.6643599 | 4650 | 3.6674530 | 4683 | 3.6705242 |
| 4618 | 3.6644539 | 4651 | 3.6675463 | 4684 | 3.6706169 |
| 4619 | 3.6645480 | 4652 | 3.6676397 | 4685 | 3.6707096 |
| 4620 | 3.6646420 | 4653 | 3.6677331 | 4686 | 3.6708023 |
| 4621 | 3.6647360 | 4654 | 3.6678264 | 4687 | 3.6708950 |
| 4622 | 3.6648299 | 4655 | 3.6679197 | 4688 | 3.6709876 |
| 4623 | 3.6649239 | 4656 | 3.6680130 | 4689 | 3.6710802 |
| 4624 | 3.6650178 | 4657 | 3.6681062 | 4690 | 3.6711728 |
| 4625 | 3.6651117 | 4658 | 3.6681995 | 4691 | 3.6712654 |
| 4626 | 3.6652056 | 4659 | 3.6682927 | 4692 | 3.6713580 |
| 4627 | 3.6652995 | 4660 | 3.6683859 | 4693 | 3.6714506 |
| 4628 | 3.6653933 | 4661 | 3.6684791 | 4694 | 3.6715431 |
| 4629 | 3.6654872 | 4662 | 3.6685723 | 4695 | 3.6716356 |
| 4630 | 3.6655810 | 4663 | 3.6686654 | 4696 | 3.6717281 |
| 4631 | 3.6656748 | 4664 | 3.6687585 | 4697 | 3.6718206 |
| 4632 | 3.6657685 | 4665 | 3.6688516 | 4698 | 3.6719130 |
| 4633 | 3.6658623 | 4666 | 3.6689447 | 4699 | 3.6720054 |
| 4634 | 3.6659560 | 4667 | 3.6690378 | 4700 | 3.6720979 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 4701 | 3.6721903 | 4734 | 3.6752283 | 4767 | 3.6782452 |
| 4702 | 3.6722826 | 4735 | 3.6753200 | 4768 | 3.6783362 |
| 4703 | 3.6723750 | 4736 | 3.6754117 | 4769 | 3.6784273 |
| 4704 | 3.6724673 | 4737 | 3.6755034 | 4770 | 3.6785184 |
| 4705 | 3.6725596 | 4738 | 3.6755951 | 4771 | 3.6786094 |
| 4706 | 3.6726519 | 4739 | 3.6756867 | 4772 | 3.6787004 |
| 4707 | 3.6727442 | 4740 | 3.6757783 | 4773 | 3.6787914 |
| 4708 | 3.6728365 | 4741 | 3.6758700 | 4774 | 3.6788824 |
| 4709 | 3.6729287 | 4742 | 3.6759615 | 4775 | 3.6789734 |
| 4710 | 3.6730209 | 4743 | 3.6760531 | 4776 | 3.6790643 |
| 4711 | 3.6731131 | 4744 | 3.6761447 | 4777 | 3.6791552 |
| 4712 | 3.6732053 | 4745 | 3.6762362 | 4778 | 3.6792461 |
| 4713 | 3.6732974 | 4746 | 3.6763277 | 4779 | 3.6793370 |
| 4714 | 3.6733896 | 4747 | 3.6764192 | 4780 | 3.6794279 |
| 4715 | 3.6734817 | 4748 | 3.6765107 | 4781 | 3.6795187 |
| 4716 | 3.6735738 | 4749 | 3.6766022 | 4782 | 3.6796096 |
| 4717 | 3.6736659 | 4750 | 3.6766936 | 4783 | 3.6797004 |
| 4718 | 3.6737579 | 4751 | 3.6767850 | 4784 | 3.6797912 |
| 4719 | 3.6738500 | 4752 | 3.6768764 | 4785 | 3.6798819 |
| 4720 | 3.6739420 | 4753 | 3.6769678 | 4786 | 3.6799727 |
| 4721 | 3.6740340 | 4754 | 3.6770592 | 4787 | 3.6800634 |
| 4722 | 3.6741260 | 4755 | 3.6771505 | 4788 | 3.6801541 |
| 4723 | 3.6742179 | 4756 | 3.6772418 | 4789 | 3.6802448 |
| 4724 | 3.6743099 | 4757 | 3.6773332 | 4790 | 3.6803355 |
| 4725 | 3.6744018 | 4758 | 3.6774244 | 4791 | 3.6804262 |
| 4726 | 3.6744937 | 4759 | 3.6775157 | 4792 | 3.6805168 |
| 4727 | 3.6745856 | 4760 | 3.6776069 | 4793 | 3.6806074 |
| 4728 | 3.6746775 | 4761 | 3.6776982 | 4794 | 3.6806980 |
| 4729 | 3.6747693 | 4762 | 3.6777894 | 4795 | 3.6807886 |
| 4730 | 3.6748611 | 4763 | 3.6778806 | 4796 | 3.6808792 |
| 4731 | 3.6749529 | 4764 | 3.6779718 | 4797 | 3.6809697 |
| 4732 | 3.6750447 | 4765 | 3.6780629 | 4798 | 3.6810602 |
| 4733 | 3.6751365 | 4766 | 3.6781540 | 4799 | 3.6811507 |
| 4734 | 3.6752283 | 4767 | 3.6782452 | 4800 | 3.6812412 |

.800

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 1801 | 3.6813317 | 4834 | 3.6843066 | 4867 | 3.6872613 |
| 1802 | 3.6814222 | 4835 | 3.6843965 | 4868 | 3.6873506 |
| 1803 | 3.6815126 | 4836 | 3.6844863 | 4869 | 3.6874398 |
| 1804 | 3.6816030 | 4837 | 3.6845761 | 4870 | 3.6875290 |
| 1805 | 3.6816934 | 4838 | 3.6846659 | 4871 | 3.6876181 |
| 1806 | 3.6817838 | 4839 | 3.6847556 | 4872 | 3.6877073 |
| 1807 | 3.6818741 | 4840 | 3.6848454 | 4873 | 3.6877964 |
| 1808 | 3.6819645 | 4841 | 3.6849351 | 4874 | 3.6878855 |
| 1809 | 3.6820548 | 4842 | 3.6850248 | 4875 | 3.6879746 |
| 4810 | 3.6821451 | 4843 | 3.6851145 | 4876 | 3.6880637 |
| 4811 | 3.6822354 | 4844 | 3.6852041 | 4877 | 3.6881528 |
| 4812 | 3.6823256 | 4845 | 3.6852938 | 4878 | 3.6882418 |
| 4813 | 3.6824159 | 4846 | 3.6853834 | 4879 | 3.6883308 |
| 4814 | 3.6825061 | 4847 | 3.6854730 | 4880 | 3.6884198 |
| 4815 | 3.6825963 | 4848 | 3.6855626 | 4881 | 3.6885088 |
| 4816 | 3.6826865 | 4849 | 3.6856522 | 4882 | 3.6885978 |
| 4817 | 3.6827766 | 4850 | 3.6857417 | 4883 | 3.6886867 |
| 4818 | 3.6828668 | 4851 | 3.6858313 | 4884 | 3.6887756 |
| 4819 | 3.6829569 | 4852 | 3.6859208 | 4885 | 3.6888646 |
| 4820 | 3.6830470 | 4853 | 3.6860103 | 4886 | 3.6889535 |
| 4821 | 3.6831371 | 4854 | 3.6860998 | 4887 | 3.6890423 |
| 4822 | 3.6832272 | 4855 | 3.6861892 | 4888 | 3.6891312 |
| 4823 | 3.6833173 | 4856 | 3.6862787 | 4889 | 3.6892200 |
| 4824 | 3.6834073 | 4857 | 3.6863681 | 4890 | 3.6893089 |
| 4825 | 3.6834973 | 4858 | 3.6864575 | 4891 | 3.6893977 |
| 4826 | 3.6835873 | 4859 | 3.6865469 | 4892 | 3.6894864 |
| 4827 | 3.6836773 | 4860 | 3.6866363 | 4893 | 3.6895752 |
| 4828 | 3.6837673 | 4861 | 3.6867256 | 4894 | 3.6896640 |
| 4829 | 3.6838572 | 4862 | 3.6868149 | 4895 | 3.6897527 |
| 4830 | 3.6839471 | 4863 | 3.6869043 | 4896 | 3.6898414 |
| 4831 | 3.6840370 | 4864 | 3.6869936 | 4897 | 3.6899301 |
| 4832 | 3.6841269 | 4865 | 3.6870828 | 4898 | 3.6900188 |
| 4833 | 3.6842168 | 4866 | 3.6871721 | 4899 | 3.6901074 |
| 4834 | 3.6843066 | 4867 | 3.6872613 | 4900 | 3.6901961 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 4901 | 3.6902847 | 4934 | 3.6931991 | 4967 | 3.696094 |
| 4902 | 3.6903733 | 4935 | 3.6932872 | 4968 | 3.696181 |
| 4903 | 3.6904619 | 4936 | 3.6933752 | 4969 | 3.696269 |
| 4904 | 3.6905505 | 4937 | 3.6934631 | 4970 | 3.696356 |
| 4905 | 3.6906390 | 4938 | 3.6935511 | 4971 | 3.696443 |
| 4906 | 3.6907275 | 4939 | 3.6936390 | 4972 | 3.6965311 |
| 4907 | 3.6908161 | 4940 | 3.6937269 | 4973 | 3.6966181 |
| 4908 | 3.6909046 | 4941 | 3.6938148 | 4974 | 3.6967051 |
| 4909 | 3.6909930 | 4942 | 3.6939027 | 4975 | 3.6967931 |
| 4910 | 3.6910815 | 4943 | 3.6939906 | 4976 | 3.6968806 |
| 4911 | 3.6911699 | 4944 | 3.6940785 | 4977 | 3.6969676 |
| 4912 | 3.6912584 | 4945 | 3.6941663 | 4978 | 3.6970549 |
| 4913 | 3.6913468 | 4946 | 3.6942541 | 4979 | 3.6971421 |
| 4914 | 3.6914352 | 4947 | 3.6943419 | 4980 | 3.6972293 |
| 4915 | 3.6915235 | 4948 | 3.6944297 | 4981 | 3.6973165 |
| 4916 | 3.6916119 | 4949 | 3.6945174 | 4982 | 3.6974037 |
| 4917 | 3.6917002 | 4950 | 3.6946052 | 4983 | 3.6974909 |
| 4918 | 3.6917885 | 4951 | 3.6946929 | 4984 | 3.6975780 |
| 4919 | 3.6918768 | 4952 | 3.6947806 | 4985 | 3.6976652 |
| 4920 | 3.6919651 | 4953 | 3.6948683 | 4986 | 3.6977523 |
| 4921 | 3.6920534 | 4954 | 3.6949560 | 4987 | 3.6978394 |
| 4922 | 3.6921416 | 4955 | 3.6950437 | 4988 | 3.6979264 |
| 4923 | 3.6922298 | 4956 | 3.6951313 | 4989 | 3.6980135 |
| 4924 | 3.6923180 | 4957 | 3.6952189 | 4990 | 3.6981005 |
| 4925 | 3.6924062 | 4958 | 3.6953065 | 4991 | 3.6981876 |
| 4926 | 3.6924944 | 4959 | 3.6953941 | 4992 | 3.6982746 |
| 4927 | 3.6925826 | 4960 | 3.6954817 | 4993 | 3.6983616 |
| 4928 | 3.6926707 | 4961 | 3.6955692 | 4994 | 3.6984485 |
| 4929 | 3.6927588 | 4962 | 3.6956568 | 4995 | 3.6985355 |
| 4930 | 3.6928469 | 4963 | 3.6957443 | 4996 | 3.6986224 |
| 4931 | 3.6929350 | 4964 | 3.6958318 | 4997 | 3.6987093 |
| 4932 | 3.6930231 | 4965 | 3.6959193 | 4998 | 3.6987963 |
| 4933 | 3.6931111 | 4966 | 3.6960067 | 4999 | 3.6988831 |
| 4934 | 3.6931991 | 4967 | 3.6960942 | 5000 | 3.6989700 |

5000

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 5001 | 3.6990569 | 5034 | 3.7019132 | 5067 | 3.7047509 |
| 5002 | 3.6991437 | 5035 | 3.7019995 | 5068 | 3.7048366 |
| 5003 | 3.6992305 | 5036 | 3.7020857 | 5069 | 3.7049223 |
| 5004 | 3.6993173 | 5037 | 3.7021719 | 5070 | 3.7050080 |
| 5005 | 3.6994041 | 5038 | 3.7022582 | 5071 | 3.7050936 |
| 5006 | 3.6994908 | 5039 | 3.7023444 | 5072 | 3.7051792 |
| 5007 | 3.6995776 | 5040 | 3.7024305 | 5073 | 3.7052649 |
| 5008 | 3.6996643 | 5041 | 3.7025167 | 5074 | 3.7053505 |
| 5009 | 3.6997510 | 5042 | 3.7026028 | 5075 | 3.7054360 |
| 5010 | 3.6998377 | 5043 | 3.7026890 | 5076 | 3.7055216 |
| 5011 | 3.6999244 | 5044 | 3.7027751 | 5077 | 3.7056072 |
| 5012 | 3.7000111 | 5045 | 3.7028612 | 5078 | 3.7056927 |
| 5013 | 3.7000977 | 5046 | 3.7029472 | 5079 | 3.7057782 |
| 5014 | 3.7001843 | 5047 | 3.7030333 | 5080 | 3.7058637 |
| 5015 | 3.7002709 | 5048 | 3.7031193 | 5081 | 3.7059492 |
| 5016 | 3.7003575 | 5049 | 3.7032054 | 5082 | 3.7060347 |
| 5017 | 3.7004441 | 5050 | 3.7032914 | 5083 | 3.7061201 |
| 5018 | 3.7005307 | 5051 | 3.7033774 | 5084 | 3.7062055 |
| 5019 | 3.7006172 | 5052 | 3.7034633 | 5085 | 3.7062910 |
| 5020 | 3.7007037 | 5053 | 3.7035493 | 5086 | 3.7063764 |
| 5021 | 3.7007902 | 5054 | 3.7036352 | 5087 | 3.7064617 |
| 5022 | 3.7008767 | 5055 | 3.7037212 | 5088 | 3.7065471 |
| 5023 | 3.7009632 | 5056 | 3.7038071 | 5089 | 3.7066324 |
| 5024 | 3.7010496 | 5057 | 3.7038929 | 5090 | 3.7067178 |
| 5025 | 3.7011361 | 5058 | 3.7039788 | 5091 | 3.7068031 |
| 5026 | 3.7012225 | 5059 | 3.7040647 | 5092 | 3.7068884 |
| 5027 | 3.7013089 | 5060 | 3.7041505 | 5093 | 3.7069737 |
| 5028 | 3.7013953 | 5061 | 3.7042363 | 5094 | 3.7070589 |
| 5029 | 3.7014816 | 5062 | 3.7043221 | 5095 | 3.7071442 |
| 5030 | 3.7015680 | 5063 | 3.7044079 | 5096 | 3.7072294 |
| 5031 | 3.7016543 | 5064 | 3.7044937 | 5097 | 3.7073146 |
| 5032 | 3.7017406 | 5065 | 3.7045794 | 5098 | 3.7073998 |
| 5033 | 3.7018269 | 5066 | 3.7046652 | 5099 | 3.7074850 |
| 5034 | 3.7019132 | 5067 | 3.7047509 | 5100 | 3.7075702 |

5100

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5101 | 3.7076553 | 5134 | 3.7104559 | 5167 | 3.713233 |
| 5102 | 3.7077405 | 5135 | 3.7105404 | 5168 | 3.713322 |
| 5103 | 3.7078256 | 5136 | 3.7106250 | 5169 | 3.713409 |
| 5104 | 3.7079107 | 5137 | 3.7107096 | 5170 | 3.713496 |
| 5105 | 3.7079957 | 5138 | 3.7107941 | 5171 | 3.713574 |
| 5106 | 3.7080808 | 5139 | 3.7108786 | 5172 | 3.713658 |
| 5107 | 3.7081659 | 5140 | 3.7109631 | 5173 | 3.713742 |
| 5108 | 3.7082509 | 5141 | 3.7110476 | 5174 | 3.713826 |
| 5109 | 3.7083359 | 5142 | 3.7111321 | 5175 | 3.713910 |
| 5110 | 3.7084209 | 5143 | 3.7112165 | 5176 | 3.713994 |
| 5111 | 3.7085059 | 5144 | 3.7113010 | 5177 | 3.7140782 |
| 5112 | 3.7085908 | 5145 | 3.7113854 | 5178 | 3.7141620 |
| 5113 | 3.7086758 | 5146 | 3.7114698 | 5179 | 3.7142459 |
| 5114 | 3.7087607 | 5147 | 3.7115542 | 5180 | 3.7143298 |
| 5115 | 3.7088456 | 5148 | 3.7116385 | 5181 | 3.7144136 |
| 5116 | 3.7089305 | 5149 | 3.7117229 | 5182 | 3.7144974 |
| 5117 | 3.7090154 | 5150 | 3.7118072 | 5183 | 3.7145812 |
| 5118 | 3.7091003 | 5151 | 3.7118915 | 5184 | 3.7146650 |
| 5119 | 3.7091851 | 5152 | 3.7119759 | 5185 | 3.7147488 |
| 5120 | 3.7092700 | 5153 | 3.7120601 | 5186 | 3.7148325 |
| 5121 | 3.7093548 | 5154 | 3.7121444 | 5187 | 3.7149162 |
| 5122 | 3.7094396 | 5155 | 3.7122287 | 5188 | 3.7150000 |
| 5123 | 3.7095244 | 5156 | 3.7123129 | 5189 | 3.7150837 |
| 5124 | 3.7096091 | 5157 | 3.7123971 | 5190 | 3.7151674 |
| 5125 | 3.7096939 | 5158 | 3.7124813 | 5191 | 3.7152510 |
| 5126 | 3.7097786 | 5159 | 3.7125655 | 5192 | 3.7153347 |
| 5127 | 3.7098633 | 5160 | 3.7126497 | 5193 | 3.7154183 |
| 5128 | 3.7099480 | 5161 | 3.7127339 | 5194 | 3.7155019 |
| 5129 | 3.7100327 | 5162 | 3.7128180 | 5195 | 3.7155856 |
| 5130 | 3.7101174 | 5163 | 3.7129021 | 5196 | 3.7156691 |
| 5131 | 3.7102020 | 5164 | 3.7129862 | 5197 | 3.7157527 |
| 5132 | 3.7102866 | 5165 | 3.7130703 | 5198 | 3.7158363 |
| 5133 | 3.7103713 | 5166 | 3.7131544 | 5199 | 3.7159198 |
| 5134 | 3.7104559 | 5167 | 3.7132385 | 5200 | 3.7160033 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 5201 | 3.7160869 | 5234 | 3.7188337 | 5267 | 3.7215633 |
| 5202 | 3.7161703 | 5235 | 3.7189167 | 5268 | 3.7216458 |
| 5203 | 3.7162538 | 5236 | 3.7189996 | 5269 | 3.7217282 |
| 5204 | 3.7163373 | 5237 | 3.7190826 | 5270 | 3.7218106 |
| 5205 | 3.7164207 | 5238 | 3.7191655 | 5271 | 3.7218930 |
| 5206 | 3.7165042 | 5239 | 3.7192484 | 5272 | 3.7219754 |
| 5207 | 3.7165876 | 5240 | 3.7193313 | 5273 | 3.7220578 |
| 5208 | 3.7166710 | 5241 | 3.7194142 | 5274 | 3.7221401 |
| 5209 | 3.7167544 | 5242 | 3.7194970 | 5275 | 3.7222225 |
| 5210 | 3.7168377 | 5243 | 3.7195799 | 5276 | 3.7223048 |
| 5211 | 3.7169211 | 5244 | 3.7196627 | 5277 | 3.7223871 |
| 5212 | 3.7170044 | 5245 | 3.7197455 | 5278 | 3.7224694 |
| 5213 | 3.7170877 | 5246 | 3.7198283 | 5279 | 3.7225517 |
| 5214 | 3.7171710 | 5247 | 3.7199111 | 5280 | 3.7226339 |
| 5215 | 3.7172543 | 5248 | 3.7199938 | 5281 | 3.7227162 |
| 5216 | 3.7173376 | 5249 | 3.7200766 | 5282 | 3.7227984 |
| 5217 | 3.7174208 | 5250 | 3.7201593 | 5283 | 3.7228806 |
| 5218 | 3.7175041 | 5251 | 3.7202420 | 5284 | 3.7229628 |
| 5219 | 3.7175873 | 5252 | 3.7203247 | 5285 | 3.7230450 |
| 5220 | 3.7176705 | 5253 | 3.7204074 | 5286 | 3.7231272 |
| 5221 | 3.7177537 | 5254 | 3.7204901 | 5287 | 3.7232093 |
| 5222 | 3.7178369 | 5255 | 3.7205727 | 5288 | 3.7232914 |
| 5223 | 3.7179200 | 5256 | 3.7206554 | 5289 | 3.7233736 |
| 5224 | 3.7180032 | 5257 | 3.7207380 | 5290 | 3.7234557 |
| 5225 | 3.7180863 | 5258 | 3.7208206 | 5291 | 3.7235378 |
| 5226 | 3.7181694 | 5259 | 3.7209032 | 5292 | 3.7236198 |
| 5227 | 3.7182525 | 5260 | 3.7209857 | 5293 | 3.7237019 |
| 5228 | 3.7183356 | 5261 | 3.7210683 | 5294 | 3.7237839 |
| 5229 | 3.7184186 | 5262 | 3.7211508 | 5295 | 3.7238660 |
| 5230 | 3.7185017 | 5263 | 3.7212334 | 5296 | 3.7239480 |
| 5231 | 3.7185847 | 5264 | 3.7213159 | 5297 | 3.7240300 |
| 5232 | 3.7186677 | 5265 | 3.7213984 | 5298 | 3.7241120 |
| 5233 | 3.7187507 | 5266 | 3.7214809 | 5299 | 3.7241939 |
| 5234 | 3.7188337 | 5267 | 3.7215633 | 5300 | 3.7242759 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 5301 | 3.7243578 | 5334 | 3.7270530 | 5367 | 3.7297316 |
| 5302 | 3.7244397 | 5335 | 3.7271344 | 5368 | 3.7298125 |
| 5303 | 3.7245216 | 5336 | 3.7272158 | 5369 | 3.7298934 |
| 5304 | 3.7246035 | 5337 | 3.7272972 | 5370 | 3.7299743 |
| 5305 | 3.7246854 | 5338 | 3.7273786 | 5371 | 3.7300551 |
| 5306 | 3.7247672 | 5339 | 3.7274599 | 5372 | 3.7301360 |
| 5307 | 3.7248491 | 5340 | 3.7275413 | 5373 | 3.7302168 |
| 5308 | 3.7249309 | 5341 | 3.7276226 | 5374 | 3.7302977 |
| 5309 | 3.7250127 | 5342 | 3.7277039 | 5375 | 3.7303785 |
| 5310 | 3.7250945 | 5343 | 3.7277852 | 5376 | 3.7304593 |
| 5311 | 3.7251763 | 5344 | 3.7278664 | 5377 | 3.7305400 |
| 5312 | 3.7252581 | 5345 | 3.7279477 | 5378 | 3.7306208 |
| 5313 | 3.7253398 | 5346 | 3.7280290 | 5379 | 3.7307015 |
| 5314 | 3.7254215 | 5347 | 3.7281102 | 5380 | 3.7307823 |
| 5315 | 3.7255033 | 5348 | 3.7281914 | 5381 | 3.7308630 |
| 5316 | 3.7255850 | 5349 | 3.7282726 | 5382 | 3.7309437 |
| 5317 | 3.7256667 | 5350 | 3.7283538 | 5383 | 3.7310244 |
| 5318 | 3.7257483 | 5351 | 3.7284349 | 5384 | 3.7311051 |
| 5319 | 3.7258300 | 5352 | 3.7285161 | 5385 | 3.7311857 |
| 5320 | 3.7259116 | 5353 | 3.7285972 | 5386 | 3.7312663 |
| 5321 | 3.7259933 | 5354 | 3.7286784 | 5387 | 3.7313470 |
| 5322 | 3.7260749 | 5355 | 3.7287595 | 5388 | 3.7314276 |
| 5323 | 3.7261565 | 5356 | 3.7288406 | 5389 | 3.7315082 |
| 5324 | 3.7262380 | 5357 | 3.7289216 | 5390 | 3.7315888 |
| 5325 | 3.7263196 | 5358 | 3.7290027 | 5391 | 3.7316693 |
| 5326 | 3.7264012 | 5359 | 3.7290838 | 5392 | 3.7317499 |
| 5327 | 3.7264827 | 5360 | 3.7291648 | 5393 | 3.7318304 |
| 5328 | 3.7265642 | 5361 | 3.7292458 | 5394 | 3.7319109 |
| 5329 | 3.7266457 | 5362 | 3.7293268 | 5395 | 3.7319914 |
| 5330 | 3.7267272 | 5363 | 3.7294078 | 5396 | 3.7320719 |
| 5331 | 3.7268087 | 5364 | 3.7294888 | 5397 | 3.7321524 |
| 5332 | 3.7268901 | 5365 | 3.7295697 | 5398 | 3.7322329 |
| 5333 | 3.7269716 | 5366 | 3.7296507 | 5399 | 3.7323133 |
| 5334 | 3.7270530 | 5367 | 3.7297316 | 5400 | 3.7323938 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|----|-----------|------|-----------|------|-----------|
| 01 | 3.7324742 | 5434 | 3.7351196 | 5467 | 3.7377491 |
| 02 | 3.7325546 | 5435 | 3.7351995 | 5468 | 3.7378285 |
| 03 | 3.7326350 | 5436 | 3.7352794 | 5469 | 3.7379079 |
| 04 | 3.7327153 | 5437 | 3.7353593 | 5470 | 3.7379873 |
| 05 | 3.7327957 | 5438 | 3.7354392 | 5471 | 3.7380667 |
| 06 | 3.7328760 | 5439 | 3.7355191 | 5472 | 3.7381461 |
| 07 | 3.7329564 | 5440 | 3.7355989 | 5473 | 3.7382254 |
| 08 | 3.7330367 | 5441 | 3.7356787 | 5474 | 3.7383048 |
| 09 | 3.7331170 | 5442 | 3.7357585 | 5475 | 3.7383841 |
| 10 | 3.7331973 | 5443 | 3.7358383 | 5476 | 3.7384634 |
| 11 | 3.7332775 | 5444 | 3.7359181 | 5477 | 3.7385427 |
| 12 | 3.7333578 | 5445 | 3.7359979 | 5478 | 3.7386220 |
| 13 | 3.7334380 | 5446 | 3.7360776 | 5479 | 3.7387013 |
| 14 | 3.7335182 | 5447 | 3.7361574 | 5480 | 3.7387806 |
| 15 | 3.7335985 | 5448 | 3.7362371 | 5481 | 3.7388598 |
| 16 | 3.7336787 | 5449 | 3.7363168 | 5482 | 3.7389390 |
| 17 | 3.7337588 | 5450 | 3.7363965 | 5483 | 3.7390182 |
| 18 | 3.7338390 | 5451 | 3.7364762 | 5484 | 3.7390974 |
| 19 | 3.7339191 | 5452 | 3.7365558 | 5485 | 3.7391766 |
| 20 | 3.7339993 | 5453 | 3.7366355 | 5486 | 3.7392558 |
| 21 | 3.7340794 | 5454 | 3.7367151 | 5487 | 3.7393350 |
| 22 | 3.7341595 | 5455 | 3.7367948 | 5488 | 3.7394141 |
| 23 | 3.7342396 | 5456 | 3.7368744 | 5489 | 3.7394932 |
| 24 | 3.7343197 | 5457 | 3.7369540 | 5490 | 3.7395723 |
| 25 | 3.7343997 | 5458 | 3.7370335 | 5491 | 3.7396514 |
| 26 | 3.7344798 | 5459 | 3.7371131 | 5492 | 3.7397305 |
| 27 | 3.7345598 | 5460 | 3.7371926 | 5493 | 3.7398096 |
| 28 | 3.7346398 | 5461 | 3.7372722 | 5494 | 3.7398886 |
| 29 | 3.7347198 | 5462 | 3.7373517 | 5495 | 3.7399677 |
| 30 | 3.7347998 | 5463 | 3.7374312 | 5496 | 3.7400467 |
| 31 | 3.7348798 | 5464 | 3.7375107 | 5497 | 3.7401257 |
| 32 | 3.7349598 | 5465 | 3.7375902 | 5498 | 3.7402047 |
| 33 | 3.7350397 | 5466 | 3.7376696 | 5499 | 3.7402837 |
| 34 | 3.7351196 | 5467 | 3.7377491 | 5500 | 3.7403627 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 5501 | 3.7404416 | 5534 | 3.7430392 | 5567 | 3.745622 |
| 5502 | 3.7405206 | 5535 | 3.7431176 | 5568 | 3.745699 |
| 5503 | 3.7405995 | 5536 | 3.7431961 | 5569 | 3.7457772 |
| 5504 | 3.7406784 | 5537 | 3.7432745 | 5570 | 3.7458552 |
| 5505 | 3.7407573 | 5538 | 3.7433530 | 5571 | 3.7459332 |
| 5506 | 3.7408362 | 5539 | 3.7434314 | 5572 | 3.7460111 |
| 5507 | 3.7409151 | 5540 | 3.7435098 | 5573 | 3.7460890 |
| 5508 | 3.7409939 | 5541 | 3.7435881 | 5574 | 3.7461670 |
| 5509 | 3.7410728 | 5542 | 3.7436665 | 5575 | 3.7462449 |
| 5510 | 3.7411516 | 5543 | 3.7437449 | 5576 | 3.7463228 |
| 5511 | 3.7412304 | 5544 | 3.7438232 | 5577 | 3.7464006 |
| 5512 | 3.7413092 | 5545 | 3.7439015 | 5578 | 3.7464785 |
| 5513 | 3.7413880 | 5546 | 3.7439799 | 5579 | 3.7465564 |
| 5514 | 3.7414668 | 5547 | 3.7440582 | 5580 | 3.7466342 |
| 5515 | 3.7415455 | 5548 | 3.7441365 | 5581 | 3.7467120 |
| 5516 | 3.7416243 | 5549 | 3.7442147 | 5582 | 3.7467898 |
| 5517 | 3.7417030 | 5550 | 3.7442930 | 5583 | 3.7468676 |
| 5518 | 3.7417817 | 5551 | 3.7443712 | 5584 | 3.7469454 |
| 5519 | 3.7418604 | 5552 | 3.7444495 | 5585 | 3.7470232 |
| 5520 | 3.7419391 | 5553 | 3.7445277 | 5586 | 3.7471009 |
| 5521 | 3.7420177 | 5554 | 3.7446059 | 5587 | 3.7471787 |
| 5522 | 3.7420964 | 5555 | 3.7446841 | 5588 | 3.7472564 |
| 5523 | 3.7421750 | 5556 | 3.7447622 | 5589 | 3.7473341 |
| 5524 | 3.7422537 | 5557 | 3.7448404 | 5590 | 3.7474118 |
| 5525 | 3.7423323 | 5558 | 3.7449185 | 5591 | 3.7474895 |
| 5526 | 3.7424109 | 5559 | 3.7449967 | 5592 | 3.7475672 |
| 5527 | 3.7424895 | 5560 | 3.7450748 | 5593 | 3.7476448 |
| 5528 | 3.7425680 | 5561 | 3.7451529 | 5594 | 3.7477225 |
| 5529 | 3.7426466 | 5562 | 3.7452310 | 5595 | 3.7478001 |
| 9530 | 3.7427251 | 5563 | 3.7453091 | 5596 | 3.7478777 |
| 5531 | 3.7428037 | 5564 | 3.7453871 | 5597 | 3.7479553 |
| 5532 | 3.7428822 | 5565 | 3.7454652 | 5598 | 3.7480329 |
| 5533 | 3.7429607 | 5566 | 3.7455432 | 5599 | 3.7481105 |
| 5534 | 3.7430392 | 5567 | 3.7456212 | 5600 | 3.7481880 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5601 | 3.7482656 | 5634 | 3.7508168 | 5667 | 3.7533532 |
| 5602 | 3.7483431 | 5635 | 3.7508939 | 5668 | 3.7534298 |
| 5603 | 3.7484206 | 5636 | 3.7509710 | 5669 | 3.7535065 |
| 5604 | 3.7484981 | 5637 | 3.7510480 | 5670 | 3.7535831 |
| 5605 | 3.7485756 | 5638 | 3.7511251 | 5671 | 3.7536596 |
| 5606 | 3.7486531 | 5639 | 3.7512021 | 5672 | 3.7537362 |
| 5607 | 3.7487306 | 5640 | 3.7512791 | 5673 | 3.7538128 |
| 5608 | 3.7488080 | 5641 | 3.7513561 | 5674 | 3.7538893 |
| 5609 | 3.7488854 | 5642 | 3.7514331 | 5675 | 3.7539659 |
| 5610 | 3.7489629 | 5643 | 3.7515100 | 5676 | 3.7540424 |
| 5611 | 3.7490403 | 5644 | 3.7515870 | 5677 | 3.7541189 |
| 5612 | 3.7491177 | 5645 | 3.7516639 | 5678 | 3.7541954 |
| 5613 | 3.7491950 | 5646 | 3.7517409 | 5679 | 3.7542719 |
| 5614 | 3.7492724 | 5647 | 3.7518178 | 5680 | 3.7543483 |
| 5615 | 3.7493498 | 5648 | 3.7518947 | 5681 | 3.7544248 |
| 5616 | 3.7494271 | 5649 | 3.7519716 | 5682 | 3.7545012 |
| 5617 | 3.7495044 | 5650 | 3.7520484 | 5683 | 3.7545777 |
| 5618 | 3.7495817 | 5651 | 3.7521253 | 5684 | 3.7546541 |
| 5619 | 3.7496590 | 5652 | 3.7522022 | 5685 | 3.7547305 |
| 5620 | 3.7497363 | 5653 | 3.7522790 | 5686 | 3.7548069 |
| 5621 | 3.7498136 | 5654 | 3.7523558 | 5687 | 3.7548832 |
| 5622 | 3.7498908 | 5655 | 3.7524326 | 5688 | 3.7549596 |
| 5623 | 3.7499681 | 5656 | 3.7525094 | 5689 | 3.7550359 |
| 5624 | 3.7500453 | 5657 | 3.7525862 | 5690 | 3.7551123 |
| 5625 | 3.7501225 | 5658 | 3.7526629 | 5691 | 3.7551886 |
| 5626 | 3.7501997 | 5659 | 3.7527397 | 5692 | 3.7552649 |
| 5627 | 3.7502769 | 5660 | 3.7528164 | 5693 | 3.7553412 |
| 5628 | 3.7503541 | 5661 | 3.7528932 | 5694 | 3.7554175 |
| 5629 | 3.7504312 | 5662 | 3.7529699 | 5695 | 3.7554937 |
| 5630 | 3.7505084 | 5663 | 3.7530466 | 5696 | 3.7555700 |
| 5631 | 3.7505855 | 5664 | 3.7531232 | 5697 | 3.7556462 |
| 5632 | 3.7506626 | 5665 | 3.7531999 | 5698 | 3.7557224 |
| 5633 | 3.7507398 | 5666 | 3.7532766 | 5699 | 3.7557987 |
| 5634 | 3.7508168 | 5667 | 3.7533532 | 5700 | 3.7558749 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 5701 | 3.7559510 | 5734 | 3.7584577 | 5767 | 3.7609500 |
| 5702 | 3.7560272 | 5735 | 3.7585334 | 5768 | 3.7610253 |
| 5703 | 3.7561034 | 5736 | 3.7586091 | 5769 | 3.7611005 |
| 5704 | 3.7561795 | 5737 | 3.7586848 | 5770 | 3.7611758 |
| 5705 | 3.7562556 | 5738 | 3.7587605 | 5771 | 3.7612511 |
| 5706 | 3.7563318 | 5739 | 3.7588362 | 5772 | 3.7613263 |
| 5707 | 3.7564079 | 5740 | 3.7589119 | 5773 | 3.7614016 |
| 5708 | 3.7564840 | 5741 | 3.7589875 | 5774 | 3.7614768 |
| 5709 | 3.7565600 | 5742 | 3.7590632 | 5775 | 3.7615520 |
| 5710 | 3.7566361 | 5743 | 3.7591388 | 5776 | 3.7616272 |
| 5711 | 3.7567122 | 5744 | 3.7592144 | 5777 | 3.7617024 |
| 5712 | 3.7567882 | 5745 | 3.7592900 | 5778 | 3.7617775 |
| 5713 | 3.7568642 | 5746 | 3.7593656 | 5779 | 3.7618527 |
| 5714 | 3.7569402 | 5747 | 3.7594412 | 5780 | 3.7619278 |
| 5715 | 3.7570162 | 5748 | 3.7595168 | 5781 | 3.7620030 |
| 5716 | 3.7570922 | 5749 | 3.7595923 | 5782 | 3.7620781 |
| 5717 | 3.7571682 | 5750 | 3.7596678 | 5783 | 3.7621532 |
| 5718 | 3.7572442 | 5751 | 3.7597434 | 5784 | 3.7622283 |
| 5719 | 3.7573201 | 5752 | 3.7598189 | 5785 | 3.7623034 |
| 5720 | 3.7573960 | 5753 | 3.7598944 | 5786 | 3.7623784 |
| 5721 | 3.7574719 | 5754 | 3.7599699 | 5787 | 3.7624535 |
| 5722 | 3.7575479 | 5755 | 3.7600453 | 5788 | 3.7625285 |
| 5723 | 3.7576237 | 5756 | 3.7601208 | 5789 | 3.7626035 |
| 5724 | 3.7576996 | 5757 | 3.7601962 | 5790 | 3.7626786 |
| 5725 | 3.7577755 | 5758 | 3.7602717 | 5791 | 3.7627536 |
| 5726 | 3.7578513 | 5759 | 3.7603471 | 5792 | 3.7628286 |
| 5727 | 3.7579272 | 5760 | 3.7604225 | 5793 | 3.7629035 |
| 5728 | 3.7580030 | 5761 | 3.7604979 | 5794 | 3.7629785 |
| 5729 | 3.7580788 | 5762 | 3.7605733 | 5795 | 3.7630534 |
| 5730 | 3.7581546 | 5763 | 3.7606486 | 5796 | 3.7631284 |
| 5731 | 3.7582304 | 5764 | 3.7607240 | 5797 | 3.7632033 |
| 5732 | 3.7583062 | 5765 | 3.7607993 | 5798 | 3.7632782 |
| 5733 | 3.7583819 | 5766 | 3.7608746 | 5799 | 3.7633531 |
| 5734 | 3.7584577 | 5767 | 3.7609500 | 5800 | 3.7634280 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 5801 | 3.7635029 | 5834 | 3.7659664 | 5867 | 3.7684161 |
| 5802 | 3.7635777 | 5835 | 3.7660409 | 5868 | 3.7684901 |
| 5803 | 3.7636526 | 5836 | 3.7661153 | 5869 | 3.7685641 |
| 5804 | 3.7637274 | 5837 | 3.7661897 | 5870 | 3.7686381 |
| 5805 | 3.7638022 | 5838 | 3.7662641 | 5871 | 3.7687121 |
| 5806 | 3.7638770 | 5839 | 3.7663385 | 5872 | 3.7687860 |
| 5807 | 3.7639518 | 5840 | 3.7664128 | 5873 | 3.7688600 |
| 5808 | 3.7640266 | 5841 | 3.7664872 | 5874 | 3.7689339 |
| 5809 | 3.7641014 | 5842 | 3.7665616 | 5875 | 3.7690079 |
| 5810 | 3.7641761 | 5843 | 3.7666359 | 5876 | 3.7690818 |
| 5811 | 3.7642509 | 5844 | 3.7667102 | 5877 | 3.7691557 |
| 5812 | 3.7643256 | 5845 | 3.7667845 | 5878 | 3.7692296 |
| 5813 | 3.7644003 | 5846 | 3.7668588 | 5879 | 3.7693035 |
| 5814 | 3.7644750 | 5847 | 3.7669331 | 5880 | 3.7693773 |
| 5815 | 3.7645497 | 5848 | 3.7670074 | 5881 | 3.7694512 |
| 5816 | 3.7646244 | 5849 | 3.7670816 | 5882 | 3.7695250 |
| 5817 | 3.7646991 | 5850 | 3.7671559 | 5883 | 3.7695988 |
| 5818 | 3.7647737 | 5851 | 3.7672301 | 5884 | 3.7696727 |
| 5819 | 3.7648484 | 5852 | 3.7673043 | 5885 | 3.7697465 |
| 5820 | 3.7649230 | 5853 | 3.7673785 | 5886 | 3.7698203 |
| 5821 | 3.7649976 | 5854 | 3.7674527 | 5887 | 3.7698940 |
| 5822 | 3.7650722 | 5855 | 3.7675269 | 5888 | 3.7699678 |
| 5823 | 3.7651468 | 5856 | 3.7676011 | 5889 | 3.7700416 |
| 5824 | 3.7652214 | 5857 | 3.7676752 | 5890 | 3.7701153 |
| 5825 | 3.7652959 | 5858 | 3.7677494 | 5891 | 3.7701890 |
| 5826 | 3.7653705 | 5859 | 3.7678235 | 5892 | 3.7702627 |
| 5827 | 3.7654450 | 5860 | 3.7678976 | 5893 | 3.7703364 |
| 5828 | 3.7655195 | 5861 | 3.7679717 | 5894 | 3.7704101 |
| 5829 | 3.7655941 | 5862 | 3.7680458 | 5895 | 3.7704838 |
| 5830 | 3.7656686 | 5863 | 3.7681199 | 5896 | 3.7705575 |
| 5831 | 3.7657430 | 5864 | 3.7681940 | 5897 | 3.7706311 |
| 5832 | 3.7658175 | 5865 | 3.7682680 | 5898 | 3.7707048 |
| 5833 | 3.7658920 | 5866 | 3.7683421 | 5899 | 3.7707784 |
| 5834 | 3.7659664 | 5867 | 3.7684161 | 5900 | 3.7708520 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5901 | 3.7709256 | 5934 | 3.7733475 | 5967 | 3.7757560 |
| 5902 | 3.7709992 | 5935 | 3.7734207 | 5968 | 3.7758288 |
| 5903 | 3.7710728 | 5936 | 3.7734939 | 5969 | 3.7759016 |
| 5904 | 3.7711463 | 5937 | 3.7735670 | 5970 | 3.7759743 |
| 5905 | 3.7712199 | 5938 | 3.7736402 | 5971 | 3.7760471 |
| 5906 | 3.7712934 | 5939 | 3.7737133 | 5972 | 3.7761198 |
| 5907 | 3.7713670 | 5940 | 3.7737864 | 5973 | 3.7761925 |
| 5908 | 3.7714405 | 5941 | 3.7738596 | 5974 | 3.7762652 |
| 5909 | 3.7715140 | 5942 | 3.7739326 | 5975 | 3.7763379 |
| 5910 | 3.7715875 | 5943 | 3.7740057 | 5976 | 3.7764106 |
| 5911 | 3.7716610 | 5944 | 3.7740788 | 5977 | 3.7764833 |
| 5912 | 3.7717344 | 5945 | 3.7741519 | 5978 | 3.7765559 |
| 5913 | 3.7718079 | 5946 | 3.7742249 | 5979 | 3.7766286 |
| 5914 | 3.7718813 | 5947 | 3.7742979 | 5980 | 3.7767012 |
| 5915 | 3.7719547 | 5948 | 3.7743710 | 5981 | 3.7767738 |
| 5916 | 3.7720282 | 5949 | 3.7744440 | 5982 | 3.7768464 |
| 5917 | 3.7721016 | 5950 | 3.7745170 | 5983 | 3.7769190 |
| 5918 | 3.7721750 | 5951 | 3.7745899 | 5984 | 3.7769916 |
| 5919 | 3.7722483 | 5952 | 3.7746629 | 5985 | 3.7770642 |
| 5920 | 3.7723217 | 5953 | 3.7747359 | 5986 | 3.7771367 |
| 5921 | 3.7723951 | 5954 | 3.7748088 | 5987 | 3.7772093 |
| 5922 | 3.7724684 | 5955 | 3.7748818 | 5988 | 3.7772818 |
| 5923 | 3.7725417 | 5956 | 3.7749547 | 5989 | 3.7773543 |
| 5924 | 3.7726150 | 5957 | 3.7750276 | 5990 | 3.7774268 |
| 5925 | 3.7726884 | 5958 | 3.7751005 | 5991 | 3.7774993 |
| 5926 | 3.7727616 | 5959 | 3.7751734 | 5992 | 3.7775718 |
| 5927 | 3.7728349 | 5960 | 3.7752463 | 5993 | 3.7776443 |
| 5928 | 3.7729082 | 5961 | 3.7753191 | 5994 | 3.7777167 |
| 5929 | 3.7729814 | 5962 | 3.7753920 | 5995 | 3.7777892 |
| 5930 | 3.7730547 | 5963 | 3.7754648 | 5996 | 3.7778616 |
| 5931 | 3.7731279 | 5964 | 3.7755376 | 5997 | 3.7779340 |
| 5932 | 3.7732011 | 5965 | 3.7756104 | 5998 | 3.7780065 |
| 5933 | 3.7732743 | 5966 | 3.7756832 | 5999 | 3.7780789 |
| 5934 | 3.7733475 | 5967 | 3.7757560 | 6000 | 3.7781512 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6001 | 3.7782236 | 6034 | 3.7806053 | 6067 | 3.7829740 |
| 6002 | 3.7782960 | 6035 | 3.7806773 | 6068 | 3.7830456 |
| 6003 | 3.7783683 | 6036 | 3.7807492 | 6069 | 3.7831171 |
| 6004 | 3.7784407 | 6037 | 3.7808212 | 6070 | 3.7831887 |
| 6005 | 3.7785130 | 6038 | 3.7808931 | 6071 | 3.7832602 |
| 6006 | 3.7785853 | 6039 | 3.7809650 | 6072 | 3.7833318 |
| 6007 | 3.7786576 | 6040 | 3.7810369 | 6073 | 3.7834033 |
| 6008 | 3.7787299 | 6041 | 3.7811088 | 6074 | 3.7834748 |
| 6009 | 3.7788022 | 6042 | 3.7811807 | 6075 | 3.7835463 |
| 6010 | 3.7788745 | 6043 | 3.7812526 | 6076 | 3.7836178 |
| 6011 | 3.7789467 | 6044 | 3.7813245 | 6077 | 3.7836892 |
| 6012 | 3.7790190 | 6045 | 3.7813963 | 6078 | 3.7837607 |
| 6013 | 3.7790912 | 6046 | 3.7814681 | 6079 | 3.7838321 |
| 6014 | 3.7791634 | 6047 | 3.7815400 | 6080 | 3.7839036 |
| 6015 | 3.7792356 | 6048 | 3.7816118 | 6081 | 3.7839750 |
| 6016 | 3.7793078 | 6049 | 3.7816836 | 6082 | 3.7840464 |
| 6017 | 3.7793800 | 6050 | 3.7817554 | 6083 | 3.7841178 |
| 6018 | 3.7794522 | 6051 | 3.7818272 | 6084 | 3.7841892 |
| 6019 | 3.7795243 | 6052 | 3.7818989 | 6085 | 3.7842606 |
| 6020 | 3.7795965 | 6053 | 3.7819707 | 6086 | 3.7843319 |
| 6021 | 3.7796686 | 6054 | 3.7820424 | 6087 | 3.7844033 |
| 6022 | 3.7797408 | 6055 | 3.7821141 | 6088 | 3.7844746 |
| 6023 | 3.7798129 | 6056 | 3.7821859 | 6089 | 3.7845460 |
| 6024 | 3.7798850 | 6057 | 3.7822576 | 6090 | 3.7846173 |
| 6025 | 3.7799571 | 6058 | 3.7823293 | 6091 | 3.7846886 |
| 6026 | 3.7800291 | 6059 | 3.7824010 | 6092 | 3.7847599 |
| 6027 | 3.7801012 | 6060 | 3.7824726 | 6093 | 3.7848312 |
| 6028 | 3.7801732 | 6061 | 3.7825443 | 6094 | 3.7849024 |
| 6029 | 3.7802453 | 6062 | 3.7826159 | 6095 | 3.7849737 |
| 6030 | 3.7803173 | 6063 | 3.7826876 | 6096 | 3.7850450 |
| 6031 | 3.7803893 | 6064 | 3.7827592 | 6097 | 3.7851162 |
| 6032 | 3.7804613 | 6065 | 3.7828308 | 6098 | 3.7851874 |
| 6033 | 3.7805333 | 6066 | 3.7829024 | 6099 | 3.7852586 |
| 6034 | 3.7806053 | 6067 | 3.7829740 | 6100 | 3.7853298 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6101 | 3.7854010 | 6134 | 3.7877438 | 6167 | 3.7900739 |
| 6102 | 3.7854722 | 6135 | 3.7878146 | 6168 | 3.7901444 |
| 6103 | 3.7855434 | 6136 | 3.7878853 | 6169 | 3.7902148 |
| 6104 | 3.7856145 | 6137 | 3.7879561 | 6170 | 3.7902852 |
| 6105 | 3.7856857 | 6138 | 3.7880269 | 6171 | 3.7903555 |
| 6106 | 3.7857568 | 6139 | 3.7880976 | 6172 | 3.7904259 |
| 6107 | 3.7858279 | 6140 | 3.7881684 | 6173 | 3.7904963 |
| 6108 | 3.7858990 | 6141 | 3.7882391 | 6174 | 3.7905666 |
| 6109 | 3.7859701 | 6142 | 3.7883098 | 6175 | 3.7906370 |
| 6110 | 3.7860412 | 6143 | 3.7883805 | 6176 | 3.7907073 |
| 6111 | 3.7861123 | 6144 | 3.7884512 | 6177 | 3.7907776 |
| 6112 | 3.7861833 | 6145 | 3.7885219 | 6178 | 3.7908479 |
| 6113 | 3.7862544 | 6146 | 3.7885926 | 6179 | 3.7909182 |
| 6114 | 3.7863254 | 6147 | 3.7886632 | 6180 | 3.7909885 |
| 6115 | 3.7863965 | 6148 | 3.7887339 | 6181 | 3.7910587 |
| 6116 | 3.7864675 | 6149 | 3.7888045 | 6182 | 3.7911290 |
| 6117 | 3.7865385 | 6150 | 3.7888751 | 6183 | 3.7911992 |
| 6118 | 3.7866095 | 6151 | 3.7889457 | 6184 | 3.7912695 |
| 6119 | 3.7866805 | 6152 | 3.7890163 | 6185 | 3.7913397 |
| 6120 | 3.7867514 | 6153 | 3.7890869 | 6186 | 3.7914099 |
| 6121 | 3.7868224 | 6154 | 3.7891575 | 6187 | 3.7914801 |
| 6122 | 3.7868933 | 6155 | 3.7892281 | 6188 | 3.7915503 |
| 6123 | 3.7869643 | 6156 | 3.7892986 | 6189 | 3.7916205 |
| 6124 | 3.7870352 | 6157 | 3.7893691 | 6190 | 3.7916906 |
| 6125 | 3.7871061 | 6158 | 3.7894397 | 6191 | 3.7917608 |
| 6126 | 3.7871770 | 6159 | 3.7895102 | 6192 | 3.7918309 |
| 6127 | 3.7872479 | 6160 | 3.7895807 | 6193 | 3.7919011 |
| 6128 | 3.7873188 | 6161 | 3.7896512 | 6194 | 3.7919712 |
| 6129 | 3.7873896 | 6162 | 3.7897217 | 6195 | 3.7920413 |
| 6130 | 3.7874605 | 6163 | 3.7897922 | 6196 | 3.7921114 |
| 6131 | 3.7875313 | 6164 | 3.7898626 | 6197 | 3.7921815 |
| 6132 | 3.7876021 | 6165 | 3.7899331 | 6198 | 3.7922516 |
| 6133 | 3.7876730 | 6166 | 3.7900035 | 6199 | 3.7923216 |
| 6134 | 3.7877438 | 6167 | 3.7900739 | 6200 | 3.7923917 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6201 | 3.7924617 | 6234 | 3.7947668 | 6267 | 3.7970597 |
| 6202 | 3.7925318 | 6235 | 3.7948365 | 6268 | 3.7971290 |
| 6203 | 3.7926018 | 6236 | 3.7949061 | 6269 | 3.7971983 |
| 6204 | 3.7926718 | 6237 | 3.7949757 | 6270 | 3.7972675 |
| 6205 | 3.7927418 | 6238 | 3.7950454 | 6271 | 3.7973368 |
| 6206 | 3.7928118 | 6239 | 3.7951150 | 6272 | 3.7974060 |
| 6207 | 3.7928817 | 6240 | 3.7951846 | 6273 | 3.7974753 |
| 6208 | 3.7929517 | 6241 | 3.7952542 | 6274 | 3.7975445 |
| 6209 | 3.7930217 | 6242 | 3.7953238 | 6275 | 3.7976137 |
| 6210 | 3.7930916 | 6243 | 3.7953933 | 6276 | 3.7976829 |
| 6211 | 3.7931615 | 6244 | 3.7954629 | 6277 | 3.7977521 |
| 6212 | 3.7932314 | 6245 | 3.7955324 | 6278 | 3.7978213 |
| 6213 | 3.7933014 | 6246 | 3.7956020 | 6279 | 3.7978905 |
| 6214 | 3.7933712 | 6247 | 3.7956715 | 6280 | 3.7979596 |
| 6215 | 3.7934411 | 6248 | 3.7957410 | 6281 | 3.7980288 |
| 6216 | 3.7935110 | 6249 | 3.7958105 | 6282 | 3.7980979 |
| 6217 | 3.7935809 | 6250 | 3.7958800 | 6283 | 3.7981671 |
| 6218 | 3.7936507 | 6251 | 3.7959495 | 6284 | 3.7982362 |
| 6219 | 3.7937206 | 6252 | 3.7960190 | 6285 | 3.7983053 |
| 6220 | 3.7937904 | 6253 | 3.7960884 | 6286 | 3.7983744 |
| 6221 | 3.7938602 | 6254 | 3.7961579 | 6287 | 3.7984435 |
| 6222 | 3.7939300 | 6255 | 3.7962273 | 6288 | 3.7985125 |
| 6223 | 3.7939998 | 6256 | 3.7962967 | 6289 | 3.7985816 |
| 6224 | 3.7940696 | 6257 | 3.7963662 | 6290 | 3.7986506 |
| 6225 | 3.7941394 | 6258 | 3.7964356 | 6291 | 3.7987197 |
| 6226 | 3.7942091 | 6259 | 3.7965050 | 6292 | 3.7987887 |
| 6227 | 3.7942789 | 6260 | 3.7965743 | 6293 | 3.7988577 |
| 6228 | 3.7943486 | 6261 | 3.7966437 | 6294 | 3.7989267 |
| 6229 | 3.7944183 | 6262 | 3.7967131 | 6295 | 3.7989957 |
| 6230 | 3.7944880 | 6263 | 3.7967824 | 6296 | 3.7990647 |
| 6231 | 3.7945578 | 6264 | 3.7968517 | 6297 | 3.7991337 |
| 6232 | 3.7946274 | 6265 | 3.7969211 | 6298 | 3.7992027 |
| 6233 | 3.7546971 | 6266 | 3.7969904 | 6299 | 3.7992716 |
| 6234 | 3.7947668 | 6267 | 3.7970597 | 6300 | 3.7993405 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6301 | 3.7994095 | 6334 | 3.8016781 | 6367 | 3.8039348 |
| 6302 | 3.7994784 | 6335 | 3.8017466 | 6368 | 3.8040031 |
| 6303 | 3.7995473 | 6336 | 3.8018152 | 6369 | 3.8040712 |
| 6304 | 3.7996162 | 6337 | 3.8018837 | 6370 | 3.8041394 |
| 6305 | 3.7996851 | 6338 | 3.8019522 | 6371 | 3.8042076 |
| 6306 | 3.7997540 | 6339 | 3.8020208 | 6372 | 3.8042758 |
| 6307 | 3.7998228 | 6340 | 3.8020893 | 6373 | 3.8043439 |
| 6308 | 3.7998917 | 6341 | 3.8021578 | 6374 | 3.8044121 |
| 6309 | 3.7999605 | 6342 | 3.8022262 | 6375 | 3.8044802 |
| 6310 | 3.8000294 | 6343 | 3.8022947 | 6376 | 3.8045483 |
| 6311 | 3.8000982 | 6344 | 3.8023632 | 6377 | 3.8046164 |
| 6312 | 3.8001670 | 6345 | 3.8024316 | 6378 | 3.8046845 |
| 6313 | 3.8002358 | 6346 | 3.8025001 | 6379 | 3.8047526 |
| 6314 | 3.8003046 | 6347 | 3.8025685 | 6380 | 3.8048207 |
| 6315 | 3.8003734 | 6348 | 3.8026369 | 6381 | 3.8048887 |
| 6316 | 3.8004421 | 6349 | 3.8027053 | 6382 | 3.8049568 |
| 6317 | 3.8005109 | 6350 | 3.8027737 | 6383 | 3.8050248 |
| 6318 | 3.8005796 | 6351 | 3.8028421 | 6384 | 3.8050929 |
| 6319 | 3.8006484 | 6352 | 3.8029105 | 6385 | 3.8051609 |
| 6320 | 3.8007171 | 6353 | 3.8029789 | 6386 | 3.8052289 |
| 6321 | 3.8007858 | 6354 | 3.8030472 | 6387 | 3.8052969 |
| 6322 | 3.8008545 | 6355 | 3.8031156 | 6388 | 3.8053649 |
| 6323 | 3.8009232 | 6356 | 3.8031839 | 6389 | 3.8054329 |
| 6324 | 3.8009919 | 6357 | 3.8032522 | 6390 | 3.8055009 |
| 6325 | 3.8010605 | 6358 | 3.8033205 | 6391 | 3.8055688 |
| 6326 | 3.8011292 | 6359 | 3.8033888 | 6392 | 3.8056368 |
| 6327 | 3.8011978 | 6360 | 3.8034571 | 6393 | 3.8057047 |
| 6328 | 3.8012665 | 6361 | 3.8035254 | 6394 | 3.8057726 |
| 6329 | 3.8013351 | 6362 | 3.8035937 | 6395 | 3.8058405 |
| 6330 | 3.8014037 | 6363 | 3.8036619 | 6396 | 3.8059085 |
| 6331 | 3.8014723 | 6364 | 3.8037302 | 6397 | 3.8059763 |
| 6332 | 3.8015409 | 6365 | 3.8037984 | 6398 | 3.8060442 |
| 6333 | 3.8016095 | 6366 | 3.8038666 | 6399 | 3.8061121 |
| 6334 | 3.8016781 | 6367 | 3.8039348 | 6400 | 3.8061800 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6401 | 3.8062478 | 6434 | 3.8084811 | 6467 | 3.8107029 |
| 6402 | 3.8063157 | 6435 | 3.8085485 | 6468 | 3.8107700 |
| 6403 | 3.8063835 | 6436 | 3.8086160 | 6469 | 3.8108371 |
| 6404 | 3.8064513 | 6437 | 3.8086835 | 6470 | 3.8109043 |
| 6405 | 3.8065191 | 6438 | 3.8087510 | 6471 | 3.8109714 |
| 6406 | 3.8065869 | 6439 | 3.8088184 | 6472 | 3.8110385 |
| 6407 | 3.8066547 | 6440 | 3.8088859 | 6473 | 3.8111056 |
| 6408 | 3.8067225 | 6441 | 3.8089533 | 6474 | 3.8111727 |
| 6409 | 3.8067903 | 6442 | 3.8090207 | 6475 | 3.8112398 |
| 6410 | 3.8068580 | 6443 | 3.8090881 | 6476 | 3.8113068 |
| 6411 | 3.8069258 | 6444 | 3.8091555 | 6477 | 3.8113739 |
| 6412 | 3.8069935 | 6445 | 3.8092229 | 6478 | 3.8114409 |
| 6413 | 3.8070612 | 6446 | 3.8092903 | 6479 | 3.8115080 |
| 6414 | 3.8071290 | 6447 | 3.8093577 | 6480 | 3.8115750 |
| 6415 | 3.8071967 | 6448 | 3.8094250 | 6481 | 3.8116420 |
| 6416 | 3.8072644 | 6449 | 3.8094924 | 6482 | 3.8117090 |
| 6417 | 3.8073320 | 6450 | 3.8095597 | 6483 | 3.8117760 |
| 6418 | 3.8073997 | 6451 | 3.8096270 | 6484 | 3.8118430 |
| 6419 | 3.8074674 | 6452 | 3.8096944 | 6485 | 3.8119100 |
| 6420 | 3.8075350 | 6453 | 3.8097617 | 6486 | 3.8119769 |
| 6421 | 3.8076027 | 6454 | 3.8098290 | 6487 | 3.8120439 |
| 6422 | 3.8076703 | 6455 | 3.8098962 | 6488 | 3.8121108 |
| 6423 | 3.8077379 | 6456 | 3.8099635 | 6489 | 3.8121778 |
| 6424 | 3.8078055 | 6457 | 3.8100308 | 6490 | 3.8122447 |
| 6425 | 3.8078731 | 6458 | 3.8100980 | 6491 | 3.8123116 |
| 6426 | 3.8079407 | 6459 | 3.8101653 | 6492 | 3.8123785 |
| 6427 | 3.8080083 | 6460 | 3.8102325 | 6493 | 3.8124454 |
| 6428 | 3.8080759 | 6461 | 3.8102997 | 6494 | 3.8125123 |
| 6429 | 3.8081434 | 6462 | 3.8103670 | 6495 | 3.8125792 |
| 6430 | 3.8082110 | 6463 | 3.8104342 | 6496 | 3.8126460 |
| 6431 | 3.8082785 | 6464 | 3.8105013 | 6497 | 3.8127129 |
| 6432 | 3.8083460 | 6465 | 3.8105685 | 6498 | 3.8127797 |
| 6433 | 3.8084136 | 6466 | 3.8106357 | 6499 | 3.8128465 |
| 6434 | 3.8084811 | 6467 | 3.8107029 | 6500 | 3.8129134 |

6500

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6501 | 3.8129802 | 6534 | 3.8151791 | 6567 | 3.8173670 |
| 6502 | 3.8130470 | 6535 | 3.8152456 | 6568 | 3.8174331 |
| 6503 | 3.8131138 | 6536 | 3.8153120 | 6569 | 3.8174993 |
| 6504 | 3.8131805 | 6537 | 3.8153785 | 6570 | 3.8175654 |
| 6505 | 3.8132473 | 6538 | 3.8154449 | 6571 | 3.8176315 |
| 6506 | 3.8133141 | 6539 | 3.8155113 | 6572 | 3.8176976 |
| 6507 | 3.8133808 | 6540 | 3.8155777 | 6573 | 3.8177636 |
| 6508 | 3.8134475 | 6541 | 3.8156441 | 6574 | 3.8178297 |
| 6509 | 3.8135143 | 6542 | 3.8157105 | 6575 | 3.8178958 |
| 6510 | 3.8135810 | 6543 | 3.8157769 | 6576 | 3.8179618 |
| 6511 | 3.8136477 | 6544 | 3.8158433 | 6577 | 3.8180278 |
| 6512 | 3.8137144 | 6545 | 3.8159096 | 6578 | 3.8180939 |
| 6513 | 3.8137811 | 6546 | 3.8159760 | 6579 | 3.8181599 |
| 6514 | 3.8138478 | 6547 | 3.8160423 | 6580 | 3.8182259 |
| 6515 | 3.8139144 | 6548 | 3.8161087 | 6581 | 3.8182919 |
| 6516 | 3.8139811 | 6549 | 3.8161750 | 6582 | 3.8183579 |
| 6517 | 3.8140477 | 6550 | 3.8162413 | 6583 | 3.8184239 |
| 6518 | 3.8141144 | 6551 | 3.8163076 | 6584 | 3.8184898 |
| 6519 | 3.8141810 | 6552 | 3.8163739 | 6585 | 3.8185558 |
| 6520 | 3.8142476 | 6553 | 3.8164402 | 6586 | 3.8186217 |
| 6521 | 3.8143142 | 6554 | 3.8165064 | 6587 | 3.8186877 |
| 6522 | 3.8143808 | 6555 | 3.8165727 | 6588 | 3.8187536 |
| 6523 | 3.8144474 | 6556 | 3.8166389 | 6589 | 3.8188195 |
| 6524 | 3.8145140 | 6557 | 3.8167052 | 6590 | 3.8188854 |
| 6525 | 3.8145805 | 6558 | 3.8167714 | 6591 | 3.8189513 |
| 6526 | 3.8146471 | 6559 | 3.8168376 | 6592 | 3.8190172 |
| 6527 | 3.8147136 | 6560 | 3.8169038 | 6593 | 3.8190831 |
| 6528 | 3.8147801 | 6561 | 3.8169700 | 6594 | 3.8191489 |
| 6529 | 3.8148467 | 6562 | 3.8170362 | 6595 | 3.8192148 |
| 6530 | 3.8149132 | 6563 | 3.8171024 | 6596 | 3.8192806 |
| 6531 | 3.8149797 | 6564 | 3.8171686 | 6597 | 3.8193465 |
| 6532 | 3.8150462 | 6565 | 3.8172347 | 6598 | 3.8194123 |
| 6533 | 3.8151127 | 6566 | 3.8173009 | 6599 | 3.8194781 |
| 6534 | 3.8151791 | 6567 | 3.8173670 | 6600 | 3.8195439 |

5600

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6601 | 3.8196097 | 6634 | 3.8217755 | 6667 | 3.8239305 |
| 6602 | 3.8196755 | 6635 | 3.8218409 | 6668 | 3.8239950 |
| 6603 | 3.8197413 | 6636 | 3.8219064 | 6669 | 3.8240607 |
| 6604 | 3.8198071 | 6637 | 3.8219718 | 6670 | 3.8241258 |
| 6605 | 3.8198728 | 6638 | 3.8220372 | 6671 | 3.8241909 |
| 6606 | 3.8199386 | 6639 | 3.8221027 | 6672 | 3.8242560 |
| 6607 | 3.8200043 | 6640 | 3.8221681 | 6673 | 3.8243211 |
| 6608 | 3.8200700 | 6641 | 3.8222335 | 6674 | 3.8243862 |
| 6609 | 3.8201358 | 6642 | 3.8222989 | 6675 | 3.8244513 |
| 6610 | 3.8202015 | 6643 | 3.8223643 | 6676 | 3.8245163 |
| 6611 | 3.8202672 | 6644 | 3.8224296 | 6677 | 3.8245814 |
| 6612 | 3.8203328 | 6645 | 3.8224950 | 6678 | 3.8246464 |
| 6613 | 3.8203985 | 6646 | 3.8225603 | 6679 | 3.8247114 |
| 6614 | 3.8204642 | 6647 | 3.8226257 | 6680 | 3.8247765 |
| 6615 | 3.8205298 | 6648 | 3.8226910 | 6681 | 3.8248415 |
| 6616 | 3.8205955 | 6649 | 3.8227563 | 6682 | 3.8249065 |
| 6617 | 3.8206611 | 6650 | 3.8228216 | 6683 | 3.8249715 |
| 6618 | 3.8207268 | 6651 | 3.8228869 | 6684 | 3.8250364 |
| 6619 | 3.8207924 | 6652 | 3.8229522 | 6685 | 3.8251014 |
| 6620 | 3.8208580 | 6653 | 3.8230175 | 6686 | 3.8251664 |
| 6621 | 3.8209236 | 6654 | 3.8230828 | 6687 | 3.8252313 |
| 6622 | 3.8209892 | 6655 | 3.8231481 | 6688 | 3.8252963 |
| 6623 | 3.8210548 | 6656 | 3.8232133 | 6689 | 3.8253612 |
| 6624 | 3.8211203 | 6657 | 3.8232786 | 6690 | 3.8254261 |
| 6625 | 3.8211859 | 6658 | 3.8233438 | 6691 | 3.8254910 |
| 6626 | 3.8212514 | 6659 | 3.8234090 | 6692 | 3.8255559 |
| 6627 | 3.8213170 | 6660 | 3.8234742 | 6693 | 3.8256208 |
| 6628 | 3.8213825 | 6661 | 3.8235394 | 6694 | 3.8256857 |
| 6629 | 3.8214480 | 6662 | 3.8236046 | 6695 | 3.8257506 |
| 6630 | 3.8215135 | 6663 | 3.8236698 | 6696 | 3.8258154 |
| 6631 | 3.8215790 | 6664 | 3.8237350 | 6697 | 3.8258803 |
| 6632 | 3.8216445 | 6665 | 3.8238002 | 6698 | 3.8259451 |
| 6633 | 3.8217100 | 6666 | 3.8238653 | 6699 | 3.8260100 |
| 6634 | 3.8217755 | 6667 | 3.8239305 | 6700 | 3.8260748 |

6700

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6701 | 3.8261396 | 6734 | 3.8282731 | 6767 | 3.8303962 |
| 6702 | 3.8262044 | 6735 | 3.8283376 | 6768 | 3.8304603 |
| 6703 | 3.8262692 | 6736 | 3.8284021 | 6769 | 3.8305245 |
| 6704 | 3.8263340 | 6737 | 3.8284665 | 6770 | 3.8305887 |
| 6705 | 3.8263988 | 6738 | 3.8285310 | 6771 | 3.8306528 |
| 6706 | 3.8264635 | 6739 | 3.8285955 | 6772 | 3.8307169 |
| 6707 | 3.8265283 | 6740 | 3.8286599 | 6773 | 3.8307811 |
| 6708 | 3.8265931 | 6741 | 3.8287243 | 6774 | 3.8308452 |
| 6709 | 3.8266578 | 6742 | 3.8287887 | 6775 | 3.8309093 |
| 6710 | 3.8267225 | 6743 | 3.8288532 | 6776 | 3.8309734 |
| 6711 | 3.8267872 | 6744 | 3.8289176 | 6777 | 3.8310375 |
| 6712 | 3.8268519 | 6745 | 3.8289820 | 6778 | 3.8311016 |
| 6713 | 3.8269166 | 6746 | 3.8290463 | 6779 | 3.8311656 |
| 6714 | 3.8269813 | 6747 | 3.8291107 | 6780 | 3.8312297 |
| 6715 | 3.8270460 | 6748 | 3.8291751 | 6781 | 3.8312937 |
| 6716 | 3.8271107 | 6749 | 3.8292394 | 6782 | 3.8313578 |
| 6717 | 3.8271753 | 6750 | 3.8293038 | 6783 | 3.8314218 |
| 6718 | 3.8272400 | 6751 | 3.8293681 | 6784 | 3.8314858 |
| 6719 | 3.8273046 | 6752 | 3.8294324 | 6785 | 3.8315499 |
| 6720 | 3.8273693 | 6753 | 3.8294967 | 6786 | 3.8316139 |
| 6721 | 3.8274339 | 6754 | 3.8295611 | 6787 | 3.8316778 |
| 6722 | 3.8274985 | 6755 | 3.8296254 | 6788 | 3.8317418 |
| 6723 | 3.8275631 | 6756 | 3.8296896 | 6789 | 3.8318058 |
| 9724 | 3.8276277 | 6757 | 3.8297539 | 6790 | 3.8318698 |
| 9725 | 3.8276923 | 6758 | 3.8298182 | 6791 | 3.8319337 |
| 6726 | 3.8277569 | 6759 | 3.8298824 | 6792 | 3.8319977 |
| 6727 | 3.8278214 | 6760 | 3.8299467 | 6793 | 3.8320616 |
| 6728 | 3.8278860 | 6761 | 3.8300109 | 6794 | 3.8321255 |
| 6729 | 3.8279505 | 6762 | 3.8300752 | 6795 | 3.8321895 |
| 6730 | 3.8280151 | 6763 | 3.8301394 | 6796 | 3.8322534 |
| 6731 | 3.8280796 | 6764 | 3.8302036 | 6797 | 3.8323173 |
| 6732 | 3.8281441 | 6765 | 3.8302678 | 6798 | 3.8323812 |
| 6733 | 3.8282086 | 6766 | 3.8303320 | 6799 | 3.8324450 |
| 6734 | 3.8282731 | 6767 | 3.8303962 | 6800 | 3.8325089 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 5801 | 3.8325728 | 6834 | 3.8346750 | 6867 | 3.8367670 |
| 5802 | 3.8326366 | 6835 | 3.8347385 | 6868 | 3.8368303 |
| 5803 | 3.8327005 | 6836 | 3.8348021 | 6869 | 3.8368935 |
| 5804 | 3.8327643 | 6837 | 3.8348656 | 6870 | 3.8369567 |
| 5805 | 3.8328281 | 6838 | 3.8349291 | 6871 | 3.8370199 |
| 5806 | 3.8328919 | 6839 | 3.8349926 | 6872 | 3.8370832 |
| 5807 | 3.8329558 | 6840 | 3.8350561 | 6873 | 3.8371463 |
| 5808 | 3.8330195 | 6841 | 3.8351196 | 6874 | 3.8372095 |
| 5809 | 3.8330833 | 6842 | 3.8351831 | 6875 | 3.8372727 |
| 5810 | 3.8331471 | 6843 | 3.8352465 | 6876 | 3.8373359 |
| 5811 | 3.8332109 | 6844 | 3.8353100 | 6877 | 3.8373990 |
| 5812 | 3.8332746 | 6845 | 3.8353735 | 6878 | 3.8374622 |
| 5813 | 3.8333384 | 6846 | 3.8354369 | 6879 | 3.8375253 |
| 5814 | 3.8334021 | 6847 | 3.8355003 | 6880 | 3.8375884 |
| 5815 | 3.8334659 | 6848 | 3.8355638 | 6881 | 3.8376516 |
| 5816 | 3.8335296 | 6849 | 3.8356272 | 6882 | 3.8377147 |
| 5817 | 3.8335933 | 6850 | 3.8356906 | 6883 | 3.8377778 |
| 5818 | 3.8336570 | 6851 | 3.8357540 | 6884 | 3.8378409 |
| 5819 | 3.8337207 | 6852 | 3.8358174 | 6885 | 3.8379039 |
| 5820 | 3.8337844 | 6853 | 3.8358807 | 6886 | 3.8379670 |
| 5821 | 3.8338480 | 6854 | 3.8359441 | 6887 | 3.8380301 |
| 5822 | 3.8339117 | 6855 | 3.8360075 | 6888 | 3.8380931 |
| 5823 | 3.8339754 | 6856 | 3.8360708 | 6889 | 3.8381562 |
| 5824 | 3.8340390 | 6857 | 3.8361341 | 6890 | 3.8382192 |
| 5825 | 3.8341027 | 6858 | 3.8361975 | 6891 | 3.8382822 |
| 5826 | 3.8341663 | 6859 | 3.8362608 | 6892 | 3.8383453 |
| 5827 | 3.8342299 | 6860 | 3.8363241 | 6893 | 3.8384083 |
| 5828 | 3.8342935 | 6861 | 3.8363874 | 6894 | 3.8384713 |
| 5829 | 3.8343571 | 6862 | 3.8364507 | 6895 | 3.8385343 |
| 5830 | 3.8344207 | 6863 | 3.8365140 | 6896 | 3.8385973 |
| 5831 | 3.8344843 | 6864 | 3.8365773 | 6897 | 3.8386602 |
| 5832 | 3.8345479 | 6865 | 3.8366405 | 6898 | 3.8387232 |
| 5833 | 3.8346114 | 6866 | 3.8367038 | 6899 | 3.8387861 |
| 5834 | 3.8346750 | 6867 | 3.8367670 | 6900 | 3.8388491 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 6901 | 3.8389120 | 6934 | 3.8409838 | 6967 | 3.8430458 |
| 6902 | 3.8389750 | 6935 | 3.8410465 | 6968 | 3.8431081 |
| 6903 | 3.8390379 | 6936 | 3.8411091 | 6969 | 3.8431705 |
| 6904 | 3.8391008 | 6937 | 3.8411717 | 6970 | 3.8432328 |
| 6905 | 3.8391637 | 6938 | 3.8412343 | 6971 | 3.8432951 |
| 6906 | 3.8392266 | 6939 | 3.8412969 | 6972 | 3.8433574 |
| 6907 | 3.8392895 | 6940 | 3.8413595 | 6973 | 3.8434197 |
| 6908 | 3.8393523 | 6941 | 3.8414220 | 6974 | 3.8434819 |
| 6909 | 3.8394152 | 6942 | 3.8414846 | 6975 | 3.8435442 |
| 6910 | 3.8394780 | 6943 | 3.8415472 | 6976 | 3.8436065 |
| 6911 | 3.8395409 | 6944 | 3.8416097 | 6977 | 3.8436687 |
| 6912 | 3.8396037 | 6945 | 3.8416722 | 6978 | 3.8437310 |
| 6913 | 3.8396666 | 6946 | 3.8417348 | 6979 | 3.8437932 |
| 6914 | 3.8397294 | 6947 | 3.8417973 | 6980 | 3.8438554 |
| 6915 | 3.8397922 | 6948 | 3.8418598 | 6981 | 3.8439176 |
| 6916 | 3.8398550 | 6949 | 3.8419223 | 6982 | 3.8439798 |
| 6917 | 3.8399178 | 6950 | 3.8419848 | 6983 | 3.8440420 |
| 6918 | 3.8399806 | 6951 | 3.8420473 | 6984 | 3.8441042 |
| 6919 | 3.8400433 | 6952 | 3.8421098 | 6985 | 3.8441664 |
| 6920 | 3.8401061 | 6953 | 3.8421722 | 6986 | 3.8442286 |
| 6921 | 3.8401688 | 6954 | 3.8422347 | 6987 | 3.8442907 |
| 6922 | 3.8402316 | 6955 | 3.8422971 | 6988 | 3.8443529 |
| 6923 | 3.8402943 | 6956 | 3.8423596 | 6989 | 3.8444150 |
| 6924 | 3.8403571 | 6957 | 3.8424220 | 6990 | 3.8444772 |
| 6925 | 3.8404198 | 6958 | 3.8424844 | 6991 | 3.8445393 |
| 6926 | 3.8404825 | 6959 | 3.8425468 | 6992 | 3.8446014 |
| 6927 | 3.8405452 | 6960 | 3.8426092 | 6993 | 3.8446635 |
| 6928 | 3.8406079 | 6961 | 3.8426716 | 6994 | 3.8447256 |
| 6929 | 3.8406706 | 6962 | 3.8427340 | 6995 | 3.8447877 |
| 6930 | 3.8407332 | 6963 | 3.8427964 | 6996 | 3.8448498 |
| 6931 | 3.8407959 | 6964 | 3.8428588 | 6997 | 3.8449119 |
| 6932 | 3.8408586 | 6965 | 3.8429211 | 6998 | 3.8449739 |
| 6933 | 3.8409212 | 6966 | 3.8429835 | 6999 | 3.8450360 |
| 6934 | 3.8409838 | 6967 | 3.8430458 | 7000 | 3.8450980 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 7001 | 3.8451601 | 7034 | 3.8472024 | 7067 | 3.8492351 |
| 7002 | 3.8452221 | 7035 | 3.8472641 | 7068 | 3.8492965 |
| 7003 | 3.8452841 | 7036 | 3.8473258 | 7069 | 3.8493580 |
| 7004 | 3.8453461 | 7037 | 3.8473876 | 7070 | 3.8494194 |
| 7005 | 3.8454081 | 7038 | 3.8474493 | 7071 | 3.8494808 |
| 7006 | 3.8454701 | 7039 | 3.8475110 | 7072 | 3.8495423 |
| 7007 | 3.8455321 | 7040 | 3.8475727 | 7073 | 3.8496037 |
| 7008 | 3.8455941 | 7041 | 3.8476343 | 7074 | 3.8496651 |
| 7009 | 3.8456561 | 7042 | 3.8476960 | 7075 | 3.8497264 |
| 7010 | 3.8457180 | 7043 | 3.8477577 | 7076 | 3.8497878 |
| 7011 | 3.8457800 | 7044 | 3.8478193 | 7077 | 3.8498492 |
| 7012 | 3.8458419 | 7045 | 3.8478810 | 7078 | 3.8499106 |
| 7013 | 3.8459038 | 7046 | 3.8479426 | 7079 | 3.8499719 |
| 7014 | 3.8459658 | 7047 | 3.8480043 | 7080 | 3.8500333 |
| 7015 | 3.8460277 | 7048 | 3.8480659 | 7081 | 3.8500946 |
| 7016 | 3.8460896 | 7049 | 3.8481275 | 7082 | 3.8501559 |
| 7017 | 3.8461515 | 7050 | 3.8481891 | 7083 | 3.8502172 |
| 7018 | 3.8462134 | 7051 | 3.8482507 | 7084 | 3.8502786 |
| 7019 | 3.8462752 | 7052 | 3.8483123 | 7085 | 3.8503399 |
| 7020 | 3.8463371 | 7053 | 3.8483739 | 7086 | 3.8504011 |
| 7021 | 3.8463990 | 7054 | 3.8484355 | 7087 | 3.8504624 |
| 7022 | 3.8464608 | 7055 | 3.8484970 | 7088 | 3.8505237 |
| 7023 | 3.8465227 | 7056 | 3.8485586 | 7089 | 3.8505850 |
| 7024 | 3.8465845 | 7057 | 3.8486201 | 7090 | 3.8506462 |
| 7025 | 3.8466463 | 7058 | 3.8486817 | 7091 | 3.8507075 |
| 7026 | 3.8467081 | 7059 | 3.8487432 | 7092 | 3.8507687 |
| 7027 | 3.8467700 | 7060 | 3.8488047 | 7093 | 3.8508300 |
| 7028 | 3.8468318 | 7061 | 3.8488662 | 7094 | 3.8508912 |
| 7029 | 3.8468935 | 7062 | 3.8489277 | 7095 | 3.8509524 |
| 7030 | 3.8469553 | 7063 | 3.8489892 | 7096 | 3.8510136 |
| 7031 | 3.8470171 | 7064 | 3.8490507 | 7097 | 3.8510748 |
| 7032 | 3.8470789 | 7065 | 3.8491122 | 7098 | 3.8511360 |
| 7033 | 3.8471406 | 7066 | 3.8491736 | 7099 | 3.8511972 |
| 7034 | 3.8472024 | 7067 | 3.8492351 | 7100 | 3.8512583 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7101 | 3.8513195 | 7134 | 3.8533331 | 7167 | 3.8553374 |
| 7102 | 3.8513807 | 7135 | 3.8533940 | 7168 | 3.8553980 |
| 7103 | 3.8514418 | 7136 | 3.8534548 | 7169 | 3.8554586 |
| 7104 | 3.8515030 | 7137 | 3.8535157 | 7170 | 3.8555192 |
| 7105 | 3.8515641 | 7138 | 3.8535765 | 7171 | 3.8555797 |
| 7106 | 3.8516252 | 7139 | 3.8536374 | 7172 | 3.8556403 |
| 7107 | 3.8516863 | 7140 | 3.8536982 | 7173 | 3.8557008 |
| 7108 | 3.8517474 | 7141 | 3.8537590 | 7174 | 3.8557614 |
| 7109 | 3.8518085 | 7142 | 3.8538198 | 7175 | 3.8558219 |
| 7110 | 3.8518696 | 7143 | 3.8538806 | 7176 | 3.8558824 |
| 7111 | 3.8519307 | 7144 | 3.8539414 | 7177 | 3.8559429 |
| 7112 | 3.8519917 | 7145 | 3.8540022 | 7178 | 3.8560035 |
| 7113 | 3.8520528 | 7146 | 3.8540630 | 7179 | 3.8560640 |
| 7114 | 3.8521139 | 7147 | 3.8541238 | 7180 | 3.8561244 |
| 7115 | 3.8521749 | 7148 | 3.8541845 | 7181 | 3.8561849 |
| 7116 | 3.8522359 | 7149 | 3.8542453 | 7182 | 3.8562454 |
| 7117 | 3.8522970 | 7150 | 3.8543060 | 7183 | 3.8563059 |
| 7118 | 3.8523580 | 7151 | 3.8543668 | 7184 | 3.8563663 |
| 7119 | 3.8524190 | 7152 | 3.8544275 | 7185 | 3.8564268 |
| 7120 | 3.8524800 | 7153 | 3.8544882 | 7186 | 3.8564872 |
| 7121 | 3.8525410 | 7154 | 3.8545489 | 7187 | 3.8565476 |
| 7122 | 3.8526020 | 7155 | 3.8546096 | 7188 | 3.8566081 |
| 7123 | 3.8526629 | 7156 | 3.8546703 | 7189 | 3.8566685 |
| 7124 | 3.8527239 | 7157 | 3.8547310 | 7190 | 3.8567289 |
| 7125 | 3.8527849 | 7158 | 3.8547917 | 7191 | 3.8567893 |
| 7126 | 3.8528458 | 7159 | 3.8548524 | 7192 | 3.8568497 |
| 7127 | 3.8529068 | 7160 | 3.8549130 | 7193 | 3.8569101 |
| 7128 | 3.8529677 | 7161 | 3.8549737 | 7194 | 3.8569704 |
| 7129 | 3.8530286 | 7162 | 3.8550343 | 7195 | 3.8570308 |
| 7130 | 3.8530895 | 7163 | 3.8550949 | 7196 | 3.8570912 |
| 7131 | 3.8531504 | 7164 | 3.8551556 | 7197 | 3.8571515 |
| 7132 | 3.8532113 | 7165 | 3.8552162 | 7198 | 3.8572118 |
| 7133 | 3.8532722 | 7166 | 3.8552768 | 7199 | 3.8572722 |
| 7134 | 3.8533331 | 7167 | 3.8553374 | 7200 | 3.8573325 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 7201 | 3.8573928 | 7234 | 3.8593785 | 7267 | 3.8613852 |
| 7202 | 3.8574531 | 7235 | 3.8594385 | 7268 | 3.8614449 |
| 7203 | 3.8575134 | 7236 | 3.8594986 | 7269 | 3.8614747 |
| 7204 | 3.8575737 | 7237 | 3.8595586 | 7270 | 3.8615344 |
| 7205 | 3.8576340 | 7238 | 3.8596186 | 7271 | 3.8615941 |
| 7206 | 3.8576943 | 7239 | 3.8596786 | 7272 | 3.8616539 |
| 7207 | 3.8577545 | 7240 | 3.8597386 | 7273 | 3.8617136 |
| 7208 | 3.8578148 | 7241 | 3.8597985 | 7274 | 3.8617733 |
| 7209 | 3.8578750 | 7242 | 3.8598585 | 7275 | 3.8618330 |
| 7210 | 3.8579353 | 7243 | 3.8599185 | 7276 | 3.8618927 |
| 7211 | 3.8579955 | 7244 | 3.8599784 | 7277 | 3.8619524 |
| 7212 | 3.8580557 | 7245 | 3.8600384 | 7278 | 3.8620120 |
| 7213 | 3.8581159 | 7246 | 3.8600983 | 7279 | 3.8620717 |
| 7214 | 3.8581761 | 7247 | 3.8601583 | 7280 | 3.8621314 |
| 7215 | 3.8582363 | 7248 | 3.8602182 | 7281 | 3.8621910 |
| 7216 | 3.8582965 | 7249 | 3.8602781 | 7282 | 3.8622507 |
| 7217 | 3.8583567 | 7250 | 3.8603380 | 7283 | 3.8623103 |
| 7218 | 3.8584169 | 7251 | 3.8603979 | 7284 | 3.8623699 |
| 7219 | 3.8584770 | 7252 | 3.8604578 | 7285 | 3.8624296 |
| 7220 | 3.8585372 | 7253 | 3.8605177 | 7286 | 3.8624892 |
| 7221 | 3.8585973 | 7254 | 3.8605776 | 7287 | 3.8625488 |
| 7222 | 3.8586575 | 7255 | 3.8606374 | 7288 | 3.8626084 |
| 7223 | 3.8587176 | 7256 | 3.8606973 | 7289 | 3.8626679 |
| 7224 | 3.8587777 | 7257 | 3.8607571 | 7290 | 3.8627275 |
| 7225 | 3.8588379 | 7258 | 3.8608170 | 7291 | 3.8627871 |
| 7226 | 3.8588980 | 7259 | 3.8608768 | 7292 | 3.8628467 |
| 7227 | 3.8589581 | 7260 | 3.8609366 | 7293 | 3.8629062 |
| 7228 | 3.8590181 | 7261 | 3.8609964 | 7294 | 3.8629658 |
| 7229 | 3.8590782 | 7262 | 3.8610562 | 7295 | 3.8630253 |
| 7230 | 3.8591383 | 7263 | 3.8611160 | 7296 | 3.8630848 |
| 7231 | 3.8591984 | 7264 | 3.8611758 | 7297 | 3.8631443 |
| 7232 | 3.8592584 | 7265 | 3.8612356 | 7298 | 3.8632039 |
| 7233 | 3.8593185 | 7266 | 3.8612954 | 7299 | 3.8632634 |
| 7234 | 3.8593785 | 7267 | 3.8613552 | 7300 | 3.8633229 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7301 | 3.8633823 | 7334 | 3.8653409 | 7367 | 3.867290 |
| 7302 | 3.8634418 | 7335 | 3.8654001 | 7368 | 3.867341 |
| 7303 | 3.8635013 | 7336 | 3.8654593 | 7369 | 3.867400 |
| 7304 | 3.8635608 | 7337 | 3.8655185 | 7370 | 3.867460 |
| 7305 | 3.8636202 | 7338 | 3.8655777 | 7371 | 3.867520 |
| 7306 | 3.8636797 | 7339 | 3.8656369 | 7372 | 3.867580 |
| 7307 | 3.8637391 | 7340 | 3.8656961 | 7373 | 3.867640 |
| 7308 | 3.8637985 | 7341 | 3.8657552 | 7374 | 3.867700 |
| 7309 | 3.8638580 | 7342 | 3.8658144 | 7375 | 3.867760 |
| 7310 | 3.8639174 | 7343 | 3.8658735 | 7376 | 3.867820 |
| 7311 | 3.8639768 | 7344 | 3.8659327 | 7377 | 3.867879 |
| 7312 | 3.8640362 | 7345 | 3.8659918 | 7378 | 3.867938 |
| 7313 | 3.8640956 | 7346 | 3.8660509 | 7379 | 3.867997 |
| 7314 | 3.8641550 | 7347 | 3.8661100 | 7380 | 3.868056 |
| 7315 | 3.8642143 | 7348 | 3.8661691 | 7381 | 3.868115 |
| 7316 | 3.8642737 | 7349 | 3.8662282 | 7382 | 3.868174 |
| 7317 | 3.8643331 | 7350 | 3.8662873 | 7383 | 3.868233 |
| 7318 | 3.8643924 | 7351 | 3.8663464 | 7384 | 3.868292 |
| 7319 | 3.8644517 | 7352 | 3.8664055 | 7385 | 3.868351 |
| 7320 | 3.8645111 | 7353 | 3.8664646 | 7386 | 3.868410 |
| 7321 | 3.8645704 | 7354 | 3.8665236 | 7387 | 3.868469 |
| 7322 | 3.8646297 | 7355 | 3.8665827 | 7388 | 3.868528 |
| 7323 | 3.8646890 | 7356 | 3.8666417 | 7389 | 3.868587 |
| 7324 | 3.8647483 | 7357 | 3.8667008 | 7390 | 3.868646 |
| 7325 | 3.8648076 | 7358 | 3.8667598 | 7391 | 3.868705 |
| 7326 | 3.8648669 | 7359 | 3.8668188 | 7392 | 3.868764 |
| 7327 | 3.8649262 | 7360 | 3.8668778 | 7393 | 3.868823 |
| 7328 | 3.8649855 | 7361 | 3.8669368 | 7394 | 3.868882 |
| 7329 | 3.8650447 | 7362 | 3.8669958 | 7395 | 3.868941 |
| 7330 | 3.8651040 | 7363 | 3.8670548 | 7396 | 3.868999 |
| 7331 | 3.8651632 | 7364 | 3.8671138 | 7397 | 3.869058 |
| 7332 | 3.8652225 | 7365 | 3.8671728 | 7398 | 3.869117 |
| 7333 | 3.8652817 | 7366 | 3.8672317 | 7399 | 3.869176 |
| 7334 | 3.8653409 | 7367 | 3.8672907 | 7400 | 3.869235 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7401 | 3.8692904 | 7434 | 3.8712226 | 7467 | 3.8731461 |
| 7402 | 3.8693491 | 7435 | 3.8712810 | 7468 | 3.8732043 |
| 7403 | 3.8694077 | 7436 | 3.8713394 | 7469 | 3.8732625 |
| 7404 | 3.8694664 | 7437 | 3.8713978 | 7470 | 3.8733206 |
| 7405 | 3.8695251 | 7438 | 3.8714562 | 7471 | 3.8733787 |
| 7406 | 3.8695837 | 7439 | 3.8715146 | 7472 | 3.8734369 |
| 7407 | 3.8696423 | 7440 | 3.8715729 | 7473 | 3.8734950 |
| 7408 | 3.8697010 | 7441 | 3.8716313 | 7474 | 3.8735531 |
| 7409 | 3.8697596 | 7442 | 3.8716897 | 7475 | 3.8736112 |
| 7410 | 3.8698182 | 7443 | 3.8717480 | 7476 | 3.8736693 |
| 7411 | 3.8698768 | 7444 | 3.8718064 | 7477 | 3.8737274 |
| 7412 | 3.8699354 | 7445 | 3.8718647 | 7478 | 3.8737855 |
| 7413 | 3.8699940 | 7446 | 3.8719230 | 7479 | 3.8738435 |
| 7414 | 3.8700526 | 7447 | 3.8719814 | 7480 | 3.8739016 |
| 7415 | 3.8701112 | 7448 | 3.8720397 | 7481 | 3.8739597 |
| 7416 | 3.8701697 | 7449 | 3.8720980 | 7482 | 3.8740177 |
| 7417 | 3.8702283 | 7450 | 3.8721563 | 7483 | 3.8740757 |
| 7418 | 3.8702868 | 7451 | 3.8722146 | 7484 | 3.8741338 |
| 7419 | 3.8703454 | 7452 | 3.8722728 | 7485 | 3.8741918 |
| 7420 | 3.8704039 | 7453 | 3.8723311 | 7486 | 3.8742498 |
| 7421 | 3.8704624 | 7454 | 3.8723894 | 7487 | 3.8743078 |
| 7422 | 3.8705209 | 7455 | 3.8724476 | 7488 | 3.8743658 |
| 7423 | 3.8705793 | 7456 | 3.8725059 | 7489 | 3.8744238 |
| 7424 | 3.8706380 | 7457 | 3.8725641 | 7490 | 3.8744818 |
| 7425 | 3.8706965 | 7458 | 3.8726224 | 7491 | 3.8745398 |
| 7426 | 3.8707549 | 7459 | 3.8726806 | 7492 | 3.8745978 |
| 7427 | 3.8708134 | 7460 | 3.8727388 | 7493 | 3.8746557 |
| 7428 | 3.8708719 | 7461 | 3.8727970 | 7494 | 3.8747137 |
| 7429 | 3.8709304 | 7462 | 3.8728552 | 7495 | 3.8747716 |
| 7430 | 3.8709888 | 7463 | 3.8729134 | 7496 | 3.8748296 |
| 7431 | 3.8710473 | 7464 | 3.8729716 | 7497 | 3.8748875 |
| 7432 | 3.8711057 | 7465 | 3.8730298 | 7498 | 3.8749454 |
| 7433 | 3.8711641 | 7466 | 3.8730880 | 7499 | 3.8750034 |
| 7434 | 3.8712226 | 7467 | 3.8731461 | 7500 | 3.8750613 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7501 | 3.8751192 | 7534 | 3.8770256 | 7567 | 3.8789237 |
| 7502 | 3.8751771 | 7535 | 3.8770833 | 7568 | 3.8789811 |
| 7503 | 3.8752349 | 7536 | 3.8771409 | 7569 | 3.8790385 |
| 7504 | 3.8752928 | 7537 | 3.8771985 | 7570 | 3.8790959 |
| 7505 | 3.8753507 | 7538 | 3.8772561 | 7571 | 3.8791532 |
| 7506 | 3.8754086 | 7539 | 3.8773137 | 7572 | 3.8792106 |
| 7507 | 3.8754664 | 7540 | 3.8773713 | 7573 | 3.8792680 |
| 7508 | 3.8755243 | 7541 | 3.8774289 | 7574 | 3.8793253 |
| 7509 | 3.8755821 | 7542 | 3.8774865 | 7575 | 3.8793826 |
| 7510 | 3.8756399 | 7543 | 3.8775441 | 7576 | 3.8794400 |
| 7511 | 3.8756978 | 7544 | 3.8776017 | 7577 | 3.8794973 |
| 7512 | 3.8757556 | 7545 | 3.8776592 | 7578 | 3.8795546 |
| 7513 | 3.8758134 | 7546 | 3.8777168 | 7579 | 3.8796119 |
| 7514 | 3.8758712 | 7547 | 3.8777743 | 7580 | 3.8796692 |
| 7515 | 3.8759290 | 7548 | 3.8778319 | 7581 | 3.8797265 |
| 7516 | 3.8759868 | 7549 | 3.8778894 | 7582 | 3.8797838 |
| 7517 | 3.8760445 | 7550 | 3.8779469 | 7583 | 3.8798411 |
| 7518 | 3.8761023 | 7551 | 3.8780045 | 7584 | 3.8798983 |
| 7519 | 3.8761601 | 7552 | 3.8780620 | 7585 | 3.8799556 |
| 7520 | 3.8762178 | 7553 | 3.8781195 | 7586 | 3.8800128 |
| 7521 | 3.8762756 | 7554 | 3.8781770 | 7587 | 3.8800701 |
| 7522 | 3.8763333 | 7555 | 3.8782345 | 7588 | 3.8801273 |
| 7523 | 3.8763911 | 7556 | 3.8782919 | 7589 | 3.8801846 |
| 7524 | 3.8764488 | 7557 | 3.8783494 | 7590 | 3.8802418 |
| 7525 | 3.8765065 | 7558 | 3.8784069 | 7591 | 3.8802990 |
| 7526 | 3.8765642 | 7559 | 3.8784643 | 7592 | 3.8803562 |
| 7527 | 3.8766219 | 7560 | 3.8785218 | 7593 | 3.8804134 |
| 7528 | 3.8766796 | 7561 | 3.8785792 | 7594 | 3.8804706 |
| 7529 | 3.8767373 | 7562 | 3.8786367 | 7595 | 3.8805278 |
| 7530 | 3.8767950 | 7563 | 3.8786941 | 7596 | 3.8805850 |
| 7531 | 3.8768526 | 7564 | 3.8787515 | 7597 | 3.8806421 |
| 7532 | 3.8769103 | 7565 | 3.8788089 | 7598 | 3.8806993 |
| 7533 | 3.8769680 | 7566 | 3.8788663 | 7599 | 3.8807564 |
| 7534 | 3.8770256 | 7567 | 3.8789237 | 7600 | 3.8808136 |

7600

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7601 | 3.8808707 | 7634 | 3.8827522 | 7667 | 3.8846255 |
| 7602 | 3.8809279 | 7635 | 3.8828090 | 7668 | 3.8846821 |
| 7603 | 3.8809850 | 7636 | 3.8828659 | 7669 | 3.8847387 |
| 7604 | 3.8810421 | 7637 | 3.8829228 | 7670 | 3.8847954 |
| 7605 | 3.8810992 | 7638 | 3.8829797 | 7671 | 3.8848520 |
| 7606 | 3.8811563 | 7639 | 3.8830365 | 7672 | 3.8849086 |
| 7607 | 3.8812134 | 7640 | 3.8830934 | 7673 | 3.8849652 |
| 7608 | 3.8812705 | 7641 | 3.8831502 | 7674 | 3.8850218 |
| 7609 | 3.8813276 | 7642 | 3.8832070 | 7675 | 3.8850784 |
| 7610 | 3.8813847 | 7643 | 3.8832639 | 7676 | 3.8851350 |
| 7611 | 3.8814417 | 7644 | 3.8833207 | 7677 | 3.8851915 |
| 7612 | 3.8814988 | 7645 | 3.8833775 | 7678 | 3.8852481 |
| 7613 | 3.8815558 | 7646 | 3.8834343 | 7679 | 3.8853047 |
| 7614 | 3.8816129 | 7647 | 3.8834911 | 7680 | 3.8853612 |
| 7615 | 3.8816699 | 7648 | 3.8835479 | 7681 | 3.8854178 |
| 7616 | 3.8817269 | 7649 | 3.8836047 | 7682 | 3.8854743 |
| 7617 | 3.8817840 | 7650 | 3.8836614 | 7683 | 3.8855308 |
| 7618 | 3.8818410 | 7651 | 3.8837182 | 7684 | 3.8855874 |
| 7619 | 3.8818980 | 7652 | 3.8837750 | 7685 | 3.8856439 |
| 7620 | 3.8819550 | 7653 | 3.8838317 | 7686 | 3.8857004 |
| 7621 | 3.8820120 | 7654 | 3.8838885 | 7687 | 3.8857569 |
| 7622 | 3.8820689 | 7655 | 3.8839452 | 7688 | 3.8858134 |
| 7623 | 3.8821259 | 7656 | 3.8840019 | 7689 | 3.8858699 |
| 7624 | 3.8821829 | 7657 | 3.8840586 | 7690 | 3.8859263 |
| 7625 | 3.8822398 | 7658 | 3.8841154 | 7691 | 3.8859828 |
| 7626 | 3.8822968 | 7659 | 3.8841721 | 7692 | 3.8860393 |
| 7627 | 3.8823537 | 7660 | 3.8842288 | 7693 | 3.8860957 |
| 7628 | 3.8824107 | 7661 | 3.8842855 | 7694 | 3.8861522 |
| 7629 | 3.8824676 | 7662 | 3.8843421 | 7695 | 3.8862086 |
| 7630 | 3.8825245 | 7663 | 3.8843988 | 7696 | 3.8862651 |
| 7631 | 3.8825815 | 7664 | 3.8844555 | 7697 | 3.8863215 |
| 7632 | 3.8826384 | 7665 | 3.8845122 | 7698 | 3.8863779 |
| 7633 | 3.8826953 | 7666 | 3.8845688 | 7699 | 3.8864343 |
| 7634 | 3.8827522 | 7667 | 3.8846255 | 7700 | 3.8864907 |

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7700

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7701 | 3.8865471 | 7734 | 3.8884042 | 7767 | 3.8902533 |
| 7702 | 3.8866035 | 7735 | 3.8884603 | 7768 | 3.8903092 |
| 7703 | 3.8866599 | 7736 | 3.8885165 | 7769 | 3.8903651 |
| 7704 | 3.8867163 | 7737 | 3.8885726 | 7770 | 3.8904210 |
| 7705 | 3.8867726 | 7738 | 3.8886287 | 7771 | 3.8904769 |
| 7706 | 3.8868290 | 7739 | 3.8886848 | 7772 | 3.8905328 |
| 7707 | 3.8868854 | 7740 | 3.8887410 | 7773 | 3.8905887 |
| 7708 | 3.8869417 | 7741 | 3.8887971 | 7774 | 3.8906445 |
| 7709 | 3.8869980 | 7742 | 3.8888532 | 7775 | 3.8907004 |
| 7710 | 3.8870544 | 7743 | 3.8889093 | 7776 | 3.8907563 |
| 7711 | 3.8871107 | 7744 | 3.8889653 | 7777 | 3.8908121 |
| 7712 | 3.8871670 | 7745 | 3.8890214 | 7778 | 3.8908679 |
| 7713 | 3.8872233 | 7746 | 3.8890775 | 7779 | 3.8909238 |
| 7714 | 3.8872796 | 7747 | 3.8891336 | 7780 | 3.8909796 |
| 7715 | 3.8873359 | 7748 | 3.8891896 | 7781 | 3.8910354 |
| 7716 | 3.8873922 | 7749 | 3.8892457 | 7782 | 3.8910912 |
| 7717 | 3.8874485 | 7750 | 3.8893017 | 7783 | 3.8911470 |
| 7718 | 3.8875048 | 7751 | 3.8893577 | 7784 | 3.8912028 |
| 7719 | 3.8875610 | 7752 | 3.8894138 | 7785 | 3.8912586 |
| 7720 | 3.8876173 | 7753 | 3.8894698 | 7786 | 3.8913144 |
| 7721 | 3.8876736 | 7754 | 3.8895258 | 7787 | 3.8913702 |
| 7722 | 3.8877298 | 7755 | 3.8895818 | 7788 | 3.8914259 |
| 7723 | 3.8877860 | 7756 | 3.8896378 | 7789 | 3.8914817 |
| 7724 | 3.8878423 | 7757 | 3.8896938 | 7790 | 3.8915375 |
| 7725 | 3.8878985 | 7758 | 3.8897498 | 7791 | 3.8915932 |
| 7726 | 3.8879547 | 7759 | 3.8898058 | 7792 | 3.8916489 |
| 7727 | 3.8880109 | 7760 | 3.8898617 | 7793 | 3.8917047 |
| 7728 | 3.8880671 | 7761 | 3.8899177 | 7794 | 3.8917604 |
| 7729 | 3.8881233 | 7762 | 3.8899736 | 7795 | 3.8918161 |
| 7730 | 3.8881795 | 7763 | 3.8900296 | 7796 | 3.8918718 |
| 7731 | 3.8882357 | 7764 | 3.8900855 | 7797 | 3.8919275 |
| 7732 | 3.8882918 | 7765 | 3.8901415 | 7798 | 3.8919832 |
| 7733 | 3.8883480 | 7766 | 3.8901974 | 7799 | 3.8920389 |
| 7734 | 3.8884042 | 7767 | 3.8902533 | 7800 | 3.8920946 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 7801 | 3.8921503 | 7834 | 3.8939836 | 7867 | 3.8958091 |
| 7802 | 3.8922059 | 7835 | 3.8940390 | 7868 | 3.8958643 |
| 7803 | 3.8922616 | 7836 | 3.8940944 | 7869 | 3.8959195 |
| 7804 | 3.8923173 | 7837 | 3.8941498 | 7870 | 3.8959747 |
| 7805 | 3.8923729 | 7838 | 3.8942053 | 7871 | 3.8960299 |
| 7806 | 3.8924285 | 7839 | 3.8942607 | 7872 | 3.8960851 |
| 7807 | 3.8924842 | 7840 | 3.8943161 | 7873 | 3.8961403 |
| 7808 | 3.8925398 | 7841 | 3.8943715 | 7874 | 3.8961954 |
| 7809 | 3.8925954 | 7842 | 3.8944268 | 7875 | 3.8962506 |
| 7810 | 3.8926510 | 7843 | 3.8944822 | 7876 | 3.8963057 |
| 7811 | 3.8927066 | 7844 | 3.8945376 | 7877 | 3.8963608 |
| 7812 | 3.8927622 | 7845 | 3.8945929 | 7878 | 3.8964160 |
| 7813 | 3.8928178 | 7846 | 3.8946483 | 7879 | 3.8964711 |
| 7814 | 3.8928734 | 7847 | 3.8947037 | 7880 | 3.8965262 |
| 7815 | 3.8929290 | 7848 | 3.8947590 | 7881 | 3.8965813 |
| 7816 | 3.8929846 | 7849 | 3.8948143 | 7882 | 3.8966364 |
| 7817 | 3.8930401 | 7850 | 3.8948697 | 7883 | 3.8966915 |
| 7818 | 3.8930957 | 7851 | 3.8949250 | 7884 | 3.8967466 |
| 7819 | 3.8931512 | 7852 | 3.8949803 | 7885 | 3.8968017 |
| 7820 | 3.8932068 | 7853 | 3.8950356 | 7886 | 3.8968568 |
| 7821 | 3.8932623 | 7854 | 3.8950909 | 7887 | 3.8969118 |
| 7822 | 3.8933178 | 7855 | 3.8951462 | 7888 | 3.8969669 |
| 7823 | 3.8933733 | 7856 | 3.8952015 | 7889 | 3.8970220 |
| 7824 | 3.8934288 | 7857 | 3.8952568 | 7890 | 3.8970770 |
| 7825 | 3.8934843 | 7858 | 3.8953120 | 7891 | 3.8971320 |
| 7826 | 3.8935398 | 7859 | 3.8953673 | 7892 | 3.8971871 |
| 7827 | 3.8935953 | 7860 | 3.8954225 | 7893 | 3.8972421 |
| 7828 | 3.8936508 | 7861 | 3.8954778 | 7894 | 3.8972971 |
| 7829 | 3.8937063 | 7862 | 3.8955330 | 7895 | 3.8973521 |
| 7830 | 3.8937618 | 7863 | 3.8955883 | 7896 | 3.8974071 |
| 7831 | 3.8938172 | 7864 | 3.8956435 | 7897 | 3.8974621 |
| 7832 | 3.8938727 | 7865 | 3.8956987 | 7898 | 3.8975171 |
| 7833 | 3.8939281 | 7866 | 3.8957539 | 7899 | 3.8975721 |
| 7834 | 3.8939836 | 7867 | 3.8958091 | 7900 | 3.8976271 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 7901 | 3.8976821 | 7934 | 3.8994922 | 7967 | 3.9012948 |
| 7902 | 3.8977370 | 7935 | 3.8995469 | 7968 | 3.9013493 |
| 7903 | 3.8977920 | 7936 | 3.8996017 | 7969 | 3.9014038 |
| 7904 | 3.8978469 | 7937 | 3.8996564 | 7970 | 3.9014583 |
| 7905 | 3.8979019 | 7938 | 3.8997111 | 7971 | 3.9015128 |
| 7906 | 3.8979568 | 7939 | 3.8997658 | 7972 | 3.9015673 |
| 7907 | 3.8980117 | 7940 | 3.8998205 | 7973 | 3.9016218 |
| 7908 | 3.8980667 | 7941 | 3.8998752 | 7974 | 3.9016762 |
| 7909 | 3.8981216 | 7942 | 3.8999299 | 7975 | 3.9017307 |
| 7910 | 3.8981765 | 7943 | 3.8999846 | 7976 | 3.9017851 |
| 7911 | 3.8982314 | 7944 | 3.9000392 | 7977 | 3.9018396 |
| 7912 | 3.8982863 | 7945 | 3.9000939 | 7978 | 3.9018940 |
| 7913 | 3.8983412 | 7946 | 3.9001486 | 7979 | 3.9019485 |
| 7914 | 3.8983960 | 7947 | 3.9002032 | 7980 | 3.9020029 |
| 7915 | 3.8984509 | 7948 | 3.9002579 | 7981 | 3.9020573 |
| 7916 | 3.8985056 | 7949 | 3.9003125 | 7982 | 3.9021117 |
| 7917 | 3.8985606 | 7950 | 3.9003671 | 7983 | 3.9021661 |
| 7918 | 3.8986155 | 7951 | 3.9004218 | 7984 | 3.9022205 |
| 7919 | 3.8986703 | 7952 | 3.9004764 | 7985 | 3.9022749 |
| 7920 | 3.8987252 | 7953 | 3.9005310 | 7986 | 3.9023293 |
| 7921 | 3.8987800 | 7954 | 3.9005856 | 7987 | 3.9023837 |
| 7922 | 3.8988348 | 7955 | 3.9006402 | 7988 | 3.9024381 |
| 7923 | 3.8988897 | 7956 | 3.9006948 | 7989 | 3.9024924 |
| 7924 | 3.8989445 | 7957 | 3.9007494 | 7990 | 3.9025468 |
| 7925 | 3.8989993 | 7958 | 3.9008039 | 7991 | 3.9026011 |
| 7926 | 3.8990541 | 7959 | 3.9008585 | 7992 | 3.9026555 |
| 7927 | 3.8991089 | 7960 | 3.9009131 | 7993 | 3.9027098 |
| 7928 | 3.8991636 | 7961 | 3.9009676 | 7994 | 3.9027641 |
| 7929 | 3.8992184 | 7962 | 3.9010222 | 7995 | 3.9028185 |
| 7930 | 3.8992732 | 7963 | 3.9010767 | 7996 | 3.9028728 |
| 7931 | 3.8993279 | 7964 | 3.9011313 | 7997 | 3.9029271 |
| 7932 | 3.8993827 | 7965 | 3.9011858 | 7998 | 3.9029814 |
| 7933 | 3.8994375 | 7966 | 3.9012403 | 7999 | 3.9030357 |
| 7934 | 3.8994922 | 7967 | 3.9012948 | 8000 | 3.9030900 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8001 | 3.9031443 | 8034 | 3.9049318 | 8067 | 3.9067121 |
| 8002 | 3.9031985 | 8035 | 3.9049859 | 8068 | 3.9067659 |
| 8003 | 3.9032528 | 8036 | 3.9050399 | 8069 | 3.9068197 |
| 8004 | 3.9033071 | 8037 | 3.9050940 | 8070 | 3.9068735 |
| 8005 | 3.9033613 | 8038 | 3.9051480 | 8071 | 3.9069273 |
| 8006 | 3.9034156 | 8039 | 3.9052020 | 8072 | 3.9069812 |
| 8007 | 3.9034698 | 8040 | 3.9052560 | 8073 | 3.9070350 |
| 8008 | 3.9035241 | 8041 | 3.9053101 | 8074 | 3.9070887 |
| 8009 | 3.9035783 | 8042 | 3.9053641 | 8075 | 3.9071425 |
| 8010 | 3.9036325 | 8043 | 3.9054181 | 8076 | 3.9071963 |
| 8011 | 3.9036867 | 8044 | 3.9054721 | 8077 | 3.9072501 |
| 8012 | 3.9037409 | 8045 | 3.9055260 | 8078 | 3.9073038 |
| 8013 | 3.9037951 | 8046 | 3.9055800 | 8079 | 3.9073576 |
| 8014 | 3.9038493 | 8047 | 3.9056340 | 8080 | 3.9074114 |
| 8015 | 3.9039035 | 8048 | 3.9056880 | 8081 | 3.9074651 |
| 8016 | 3.9039577 | 8049 | 3.9057419 | 8082 | 3.9075188 |
| 8017 | 3.9040119 | 8050 | 3.9057959 | 8083 | 3.9075726 |
| 8018 | 3.9040661 | 8051 | 3.9058498 | 8084 | 3.9076263 |
| 8019 | 3.9041202 | 8052 | 3.9059038 | 8085 | 3.9076800 |
| 8020 | 3.9041744 | 8053 | 3.9059577 | 8086 | 3.9077337 |
| 8021 | 3.9042285 | 8054 | 3.9060116 | 8087 | 3.9077874 |
| 8022 | 3.9042827 | 8055 | 3.9060655 | 8088 | 3.9078411 |
| 8023 | 3.9043368 | 8056 | 3.9061195 | 8089 | 3.9078948 |
| 8024 | 3.9043909 | 8057 | 3.9061734 | 8090 | 3.9079485 |
| 8025 | 3.9044450 | 8058 | 3.9062273 | 8091 | 3.9080022 |
| 8026 | 3.9044992 | 8059 | 3.9062812 | 8092 | 3.9080559 |
| 8027 | 3.9045533 | 8060 | 3.9063350 | 8093 | 3.9081095 |
| 8028 | 3.9046074 | 8061 | 3.9063889 | 8094 | 3.9081632 |
| 8029 | 3.9046615 | 8062 | 3.9064428 | 8095 | 3.9082169 |
| 8030 | 3.9047155 | 8063 | 3.9064967 | 8096 | 3.9082705 |
| 8031 | 3.9047696 | 8064 | 3.9065505 | 8097 | 3.9083241 |
| 8032 | 3.9048237 | 8065 | 3.9066044 | 8098 | 3.9083778 |
| 8033 | 3.9048778 | 8066 | 3.9066582 | 8099 | 3.9084314 |
| 8034 | 3.9049318 | 8067 | 3.9067121 | 8100 | 3.9084850 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8101 | 3.9085386 | 8134 | 3.9103042 | 8167 | 3.9120626 |
| 8102 | 3.9085922 | 8135 | 3.9103576 | 8168 | 3.9121157 |
| 8103 | 3.9086458 | 8136 | 3.9104109 | 8169 | 3.9121689 |
| 8104 | 3.9086994 | 8137 | 3.9104643 | 8170 | 3.9122221 |
| 8105 | 3.9087530 | 8138 | 3.9105177 | 8171 | 3.9122752 |
| 8106 | 3.9088066 | 8139 | 3.9105710 | 8172 | 3.9123284 |
| 8107 | 3.9088602 | 8140 | 3.9106244 | 8173 | 3.9123815 |
| 8108 | 3.9089137 | 8141 | 3.9106778 | 8174 | 3.9124346 |
| 8109 | 3.9089673 | 8142 | 3.9107311 | 8175 | 3.9124878 |
| 8110 | 3.9090209 | 8143 | 3.9107844 | 8176 | 3.9125409 |
| 8111 | 3.9090744 | 8144 | 3.9108378 | 8177 | 3.9125940 |
| 8112 | 3.9091279 | 8145 | 3.9108911 | 8178 | 3.9126471 |
| 8113 | 3.9091815 | 8146 | 3.9109444 | 8179 | 3.9127002 |
| 8114 | 3.9092350 | 8147 | 3.9109977 | 8180 | 3.9127533 |
| 8115 | 3.9092885 | 8148 | 3.9110510 | 8181 | 3.9128064 |
| 8116 | 3.9093420 | 8149 | 3.9111043 | 8182 | 3.9128595 |
| 8117 | 3.9093955 | 8150 | 3.9111576 | 8183 | 3.9129126 |
| 8118 | 3.9094490 | 8151 | 3.9112109 | 8184 | 3.9129656 |
| 8119 | 3.9095025 | 8152 | 3.9112642 | 8185 | 3.9130187 |
| 8120 | 3.9095560 | 8153 | 3.9113174 | 8186 | 3.9130717 |
| 8121 | 3.9096095 | 8154 | 3.9113707 | 8187 | 3.9131248 |
| 8122 | 3.9096630 | 8155 | 3.9114240 | 8188 | 3.9131778 |
| 8123 | 3.9097165 | 8156 | 3.9114772 | 8189 | 3.9132309 |
| 8124 | 3.9097699 | 8157 | 3.9115305 | 8190 | 3.9132839 |
| 8125 | 3.9098234 | 8158 | 3.9115837 | 8191 | 3.9133369 |
| 8126 | 3.9098768 | 8159 | 3.9116369 | 8192 | 3.9133899 |
| 8127 | 3.9099303 | 8160 | 3.9116902 | 8193 | 3.9134430 |
| 8128 | 3.9099837 | 8161 | 3.9117434 | 8194 | 3.9134960 |
| 8129 | 3.9100371 | 8162 | 3.9117966 | 8195 | 3.9135490 |
| 8130 | 3.9100905 | 8163 | 3.9118498 | 8196 | 3.9136019 |
| 8131 | 3.9101440 | 8164 | 3.9119030 | 8197 | 3.9136549 |
| 8132 | 3.9101974 | 8165 | 3.9119562 | 8198 | 3.9137079 |
| 8133 | 3.9102508 | 8166 | 3.9120094 | 8199 | 3.9137609 |
| 8134 | 3.9103042 | 8167 | 3.9120626 | 8200 | 3.9138139 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8201 | 3.9138668 | 8234 | 3.9156109 | 8267 | 3.9173479 |
| 8202 | 3.9139198 | 8235 | 3.9156636 | 8268 | 3.9174005 |
| 8203 | 3.9139727 | 8236 | 3.9157163 | 8269 | 3.9174530 |
| 8204 | 3.9140257 | 8237 | 3.9157691 | 8270 | 3.9175055 |
| 8205 | 3.9140786 | 8238 | 3.9158218 | 8271 | 3.9175580 |
| 8206 | 3.9141315 | 8239 | 3.9158745 | 8272 | 3.9176105 |
| 8207 | 3.9141844 | 8240 | 3.9159272 | 8273 | 3.9176630 |
| 8208 | 3.9142373 | 8241 | 3.9159799 | 8274 | 3.9177155 |
| 8209 | 3.9142903 | 8242 | 3.9160326 | 8275 | 3.9177680 |
| 8210 | 3.9143432 | 8243 | 3.9160853 | 8276 | 3.9178205 |
| 8211 | 3.9143961 | 8244 | 3.9161380 | 8277 | 3.9178730 |
| 8212 | 3.9144489 | 8245 | 3.9161907 | 8278 | 3.9179254 |
| 8213 | 3.9145018 | 8246 | 3.9162433 | 8279 | 3.9179779 |
| 8214 | 3.9145547 | 8247 | 3.9162960 | 8280 | 3.9180303 |
| 8215 | 3.9146076 | 8248 | 3.9163487 | 8281 | 3.9180828 |
| 8216 | 3.9146604 | 8249 | 3.9164013 | 8282 | 3.9181352 |
| 8217 | 3.9147133 | 8250 | 3.9164539 | 8283 | 3.9181877 |
| 8218 | 3.9147661 | 8251 | 3.9165066 | 8284 | 3.9182401 |
| 8219 | 3.9148190 | 8252 | 3.9165592 | 8285 | 3.9182925 |
| 8220 | 3.9148718 | 8253 | 3.9166118 | 8286 | 3.9183449 |
| 8221 | 3.9149246 | 8254 | 3.9166645 | 8287 | 3.9183973 |
| 8222 | 3.9149775 | 8255 | 3.9167171 | 8288 | 3.9184497 |
| 8223 | 3.9150303 | 8256 | 3.9167697 | 8289 | 3.9185021 |
| 8224 | 3.9150831 | 8257 | 3.9168223 | 8290 | 3.9185545 |
| 8225 | 3.9151359 | 8258 | 3.9168749 | 8291 | 3.9186069 |
| 8226 | 3.9151887 | 8259 | 3.9169275 | 8292 | 3.9186593 |
| 8227 | 3.9152415 | 8260 | 3.9169800 | 8293 | 3.9187117 |
| 8228 | 3.9152943 | 8261 | 3.9170326 | 8294 | 3.9187640 |
| 8229 | 3.9153471 | 8262 | 3.9170852 | 8295 | 3.9188164 |
| 8230 | 3.9153998 | 8263 | 3.9171378 | 8296 | 3.9188687 |
| 8231 | 3.9154526 | 8264 | 3.9171903 | 8297 | 3.9189211 |
| 8232 | 3.9155054 | 8265 | 3.9172429 | 8298 | 3.9189734 |
| 8233 | 3.9155581 | 8266 | 3.9172954 | 8299 | 3.9190258 |
| 8234 | 3.9156109 | 8267 | 3.9173479 | 8300 | 3.9190781 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 8301 | 3.9191304 | 8334 | 3.9208535 | 8367 | 3.9225698 |
| 8302 | 3.9191827 | 8335 | 3.9209056 | 8368 | 3.9226217 |
| 8303 | 3.9192350 | 8336 | 3.9209577 | 8369 | 3.9226736 |
| 8304 | 3.9192873 | 8337 | 3.9210098 | 8370 | 3.9227255 |
| 8305 | 3.9193396 | 8338 | 3.9210619 | 8371 | 3.9227773 |
| 8306 | 3.9193919 | 8339 | 3.9211140 | 8372 | 3.9228292 |
| 8307 | 3.9194442 | 8340 | 3.9211661 | 8373 | 3.9228811 |
| 8308 | 3.9194965 | 8341 | 3.9212181 | 8374 | 3.9229339 |
| 8309 | 3.9195488 | 8342 | 3.9212702 | 8375 | 3.9229848 |
| 8310 | 3.9196010 | 8343 | 3.9213222 | 8376 | 3.9230367 |
| 8311 | 3.9196533 | 8344 | 3.9213743 | 8377 | 3.9230885 |
| 8312 | 3.9197055 | 8345 | 3.9214263 | 8378 | 3.9231404 |
| 8313 | 3.9197578 | 8346 | 3.9214784 | 8379 | 3.9231922 |
| 8314 | 3.9198100 | 8347 | 3.9215304 | 8380 | 3.9232440 |
| 8315 | 3.9198623 | 8348 | 3.9215824 | 8381 | 3.9232958 |
| 8316 | 3.9199145 | 8349 | 3.9216345 | 8382 | 3.9233477 |
| 8317 | 3.9199667 | 8350 | 3.9216865 | 8383 | 3.9233995 |
| 8318 | 3.9200189 | 8351 | 3.9217385 | 8384 | 3.9234513 |
| 8319 | 3.9200711 | 8352 | 3.9217905 | 8385 | 3.9235031 |
| 8320 | 3.9201233 | 8353 | 3.9218425 | 8386 | 3.9235549 |
| 8321 | 3.9201755 | 8354 | 3.9218945 | 8387 | 3.9236066 |
| 8322 | 3.9202277 | 8355 | 3.9219465 | 8388 | 3.9236584 |
| 8323 | 3.9202799 | 8356 | 3.9219984 | 8389 | 3.9237102 |
| 8324 | 3.9203321 | 8357 | 3.9220504 | 8390 | 3.9237620 |
| 8325 | 3.9203842 | 8358 | 3.9221024 | 8391 | 3.9238137 |
| 8326 | 3.9204364 | 8359 | 3.9221543 | 8392 | 3.9238655 |
| 8327 | 3.9204886 | 8360 | 3.9222063 | 8393 | 3.9239172 |
| 8328 | 3.9205407 | 8361 | 3.9222582 | 8394 | 3.9239690 |
| 8329 | 3.9205929 | 8362 | 3.9223102 | 8395 | 3.9240207 |
| 8330 | 3.9206450 | 8363 | 3.9223621 | 8396 | 3.9240724 |
| 8331 | 3.9206971 | 8364 | 3.9224140 | 8397 | 3.9241242 |
| 8332 | 3.9207493 | 8365 | 3.9224659 | 8398 | 3.9241759 |
| 8333 | 3.9208014 | 8366 | 3.9225179 | 8399 | 3.9242276 |
| 8334 | 3.9208535 | 8367 | 3.9225698 | 8400 | 3.9242793 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 8401 | 3.9243310 | 8434 | 3.9260336 | 8467 | 3.9277296 |
| 8402 | 3.9243827 | 8435 | 3.9260851 | 8468 | 3.9277808 |
| 8403 | 3.9244344 | 8436 | 3.9261366 | 8469 | 3.9278321 |
| 8404 | 3.9244860 | 8437 | 3.9261880 | 8470 | 3.9278834 |
| 8405 | 3.9245377 | 8438 | 3.9262395 | 8471 | 3.9279347 |
| 8406 | 3.9245894 | 8439 | 3.9262910 | 8472 | 3.9279859 |
| 8407 | 3.9246410 | 8440 | 3.9263424 | 8473 | 3.9280372 |
| 8408 | 3.9246927 | 8441 | 3.9263939 | 8474 | 3.9280885 |
| 8409 | 3.9247444 | 8442 | 3.9264453 | 8475 | 3.9281397 |
| 8410 | 3.9247960 | 8443 | 3.9264968 | 8476 | 3.9281909 |
| 8411 | 3.9248476 | 8444 | 3.9265482 | 8477 | 3.9282422 |
| 8412 | 3.9248993 | 8445 | 3.9265997 | 8478 | 3.9282934 |
| 8413 | 3.9249509 | 8446 | 3.9266511 | 8479 | 3.9283446 |
| 8414 | 3.9250025 | 8447 | 3.9267025 | 8480 | 3.9283959 |
| 8415 | 3.9250541 | 8448 | 3.9267539 | 8481 | 3.9284471 |
| 8416 | 3.9251057 | 8449 | 3.9268053 | 8482 | 3.9284983 |
| 8417 | 3.9251573 | 8450 | 3.9268567 | 8483 | 3.9285495 |
| 8418 | 3.9252089 | 8451 | 3.9269081 | 8484 | 3.9286007 |
| 8419 | 3.9252605 | 8452 | 3.9269595 | 8485 | 3.9286518 |
| 8420 | 3.9253121 | 8453 | 3.9270109 | 8486 | 3.9287030 |
| 8421 | 3.9253637 | 8454 | 3.9270622 | 8487 | 3.9287542 |
| 8422 | 3.9254152 | 8455 | 3.9271136 | 8488 | 3.9288054 |
| 8423 | 3.9254668 | 8456 | 3.9271650 | 8489 | 3.9288565 |
| 8424 | 3.9255184 | 8457 | 3.9272163 | 8490 | 3.9289077 |
| 8425 | 3.9255699 | 8458 | 3.9272677 | 8491 | 3.9289588 |
| 8426 | 3.9256215 | 8459 | 3.9273190 | 8492 | 3.9290100 |
| 8427 | 3.9256730 | 8460 | 3.9273704 | 8493 | 3.9290611 |
| 8428 | 3.9257245 | 8461 | 3.9274217 | 8494 | 3.9291123 |
| 8429 | 3.9257761 | 8462 | 3.9274730 | 8495 | 3.9291634 |
| 8430 | 3.9258276 | 8463 | 3.9275243 | 8496 | 3.9292145 |
| 8431 | 3.9258791 | 8464 | 3.9275757 | 8497 | 3.9292656 |
| 8432 | 3.9259306 | 8465 | 3.9276270 | 8498 | 3.9293167 |
| 8433 | 3.9259821 | 8466 | 3.9276783 | 8499 | 3.9293678 |
| 8434 | 3.9260336 | 8467 | 3.9277296 | 8500 | 3.9294189 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8501 | 3.9294700 | 8534 | 3.9311526 | 8567 | 3.9328288 |
| 8502 | 3.9295211 | 8535 | 3.9312035 | 8568 | 3.9328795 |
| 8503 | 3.9295722 | 8536 | 3.9312544 | 8569 | 3.9329301 |
| 8504 | 3.9296233 | 8537 | 3.9313053 | 8570 | 3.9329808 |
| 8505 | 3.9296743 | 8538 | 3.9313561 | 8571 | 3.9330315 |
| 8506 | 3.9297254 | 8539 | 3.9314070 | 8572 | 3.9330822 |
| 8507 | 3.9297764 | 8540 | 3.9314579 | 8573 | 3.9331328 |
| 8508 | 3.9298275 | 8541 | 3.9315087 | 8574 | 3.9331835 |
| 8509 | 3.9298785 | 8542 | 3.9315596 | 8575 | 3.9332341 |
| 8510 | 3.9299296 | 8543 | 3.9316104 | 8576 | 3.9332848 |
| 8511 | 3.9299806 | 8544 | 3.9316612 | 8577 | 3.9333354 |
| 8512 | 3.9300316 | 8545 | 3.9317121 | 8578 | 3.9333860 |
| 8513 | 3.9300826 | 8546 | 3.9317629 | 8579 | 3.9334367 |
| 8514 | 3.9301336 | 8547 | 3.9318137 | 8580 | 3.9334873 |
| 8515 | 3.9301847 | 8548 | 3.9318645 | 8581 | 3.9335379 |
| 8516 | 3.9302357 | 8549 | 3.9319153 | 8582 | 3.9335885 |
| 8517 | 3.9302866 | 8550 | 3.9319661 | 8583 | 3.9336391 |
| 8518 | 3.9303376 | 8551 | 3.9320169 | 8584 | 3.9336897 |
| 8519 | 3.9303886 | 8552 | 3.9320677 | 8585 | 3.9337403 |
| 8520 | 3.9304396 | 8553 | 3.9321185 | 8586 | 3.9337909 |
| 8521 | 3.9304906 | 8554 | 3.9321692 | 8587 | 3.9338415 |
| 8522 | 3.9305415 | 8555 | 3.9322200 | 8588 | 3.9338920 |
| 8523 | 3.9305925 | 8556 | 3.9322708 | 8589 | 3.9339426 |
| 8524 | 3.9306434 | 8557 | 3.9323215 | 8590 | 3.9339932 |
| 8525 | 3.9306944 | 8558 | 3.9323723 | 8591 | 3.9340437 |
| 8526 | 3.9307453 | 8559 | 3.9324230 | 8592 | 3.9340943 |
| 8527 | 3.9307963 | 8560 | 3.9324738 | 8593 | 3.9341448 |
| 8528 | 3.9308472 | 8561 | 3.9325245 | 8594 | 3.9341953 |
| 8529 | 3.9308981 | 8562 | 3.9325752 | 8595 | 3.9342459 |
| 8530 | 3.9309490 | 8563 | 3.9326259 | 8596 | 3.9342964 |
| 8531 | 3.9309999 | 8564 | 3.9326767 | 8597 | 3.9343469 |
| 8532 | 3.9310508 | 8565 | 3.9327274 | 8598 | 3.9343974 |
| 8533 | 3.9311017 | 8566 | 3.9327781 | 8599 | 3.9344479 |
| 8534 | 3.9311526 | 8567 | 3.9328288 | 8600 | 3.9344984 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 3601 | 3.9345489 | 8634 | 3.9362120 | 8667 | 3.9378688 |
| 3602 | 3.9345994 | 8635 | 3.9362623 | 8668 | 3.9379189 |
| 3603 | 3.9346499 | 8636 | 3.9363126 | 8669 | 3.9379690 |
| 3604 | 3.9347004 | 8637 | 3.9363629 | 8670 | 3.9380191 |
| 3605 | 3.9347509 | 8638 | 3.9364132 | 8671 | 3.9380692 |
| 3606 | 3.9348013 | 8639 | 3.9364635 | 8672 | 3.9381193 |
| 3607 | 3.9348518 | 8640 | 3.9365137 | 8673 | 3.9381693 |
| 3608 | 3.9349023 | 8641 | 3.9365640 | 8674 | 3.9382194 |
| 3609 | 3.9349527 | 8642 | 3.9366143 | 8675 | 3.9382695 |
| 3610 | 3.9350032 | 8643 | 3.9366645 | 8676 | 3.9383195 |
| 3611 | 3.9350536 | 8644 | 3.9367148 | 8677 | 3.9383696 |
| 3612 | 3.9351040 | 8645 | 3.9367650 | 8678 | 3.9384196 |
| 3613 | 3.9351544 | 8646 | 3.9368152 | 8679 | 3.9384697 |
| 3614 | 3.9352040 | 8647 | 3.9368655 | 8680 | 3.9385197 |
| 3615 | 3.9352553 | 8648 | 3.9369157 | 8681 | 3.9385698 |
| 3616 | 3.9353057 | 8649 | 3.9369659 | 8682 | 3.9386198 |
| 3617 | 3.9353561 | 8650 | 3.9370161 | 8683 | 3.9386698 |
| 3618 | 3.9354065 | 8651 | 3.9370663 | 8684 | 3.9387198 |
| 3619 | 3.9354569 | 8652 | 3.9371165 | 8685 | 3.9387698 |
| 3620 | 3.9355073 | 8653 | 3.9371667 | 8686 | 3.9388198 |
| 3621 | 3.9355576 | 8654 | 3.9372169 | 8687 | 3.9388698 |
| 3622 | 3.9356080 | 8655 | 3.9372671 | 8688 | 3.9389198 |
| 3623 | 3.9356584 | 8656 | 3.9373172 | 8689 | 3.9389698 |
| 3624 | 3.9357087 | 8657 | 3.9373674 | 8690 | 3.9390198 |
| 3625 | 3.9357591 | 8658 | 3.9374176 | 8691 | 3.9390697 |
| 3626 | 3.9358095 | 8659 | 3.9374677 | 8692 | 3.9391197 |
| 3627 | 3.9358598 | 8660 | 3.9375179 | 8693 | 3.9391697 |
| 3628 | 3.9359101 | 8661 | 3.9375680 | 8694 | 3.9392196 |
| 3629 | 3.9359605 | 8662 | 3.9376182 | 8695 | 3.9392696 |
| 3630 | 3.9360108 | 8663 | 3.9376683 | 8696 | 3.9393195 |
| 3631 | 3.9360611 | 8664 | 3.9377184 | 8697 | 3.9393695 |
| 3632 | 3.9361114 | 8665 | 3.9377686 | 8698 | 3.9394194 |
| 3633 | 3.9361617 | 8666 | 3.9378187 | 8699 | 3.9394693 |
| 3634 | 3.9362120 | 8667 | 3.9378688 | 8700 | 3.9395193 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8701 | 3.9395692 | 8734 | 3.9412132 | 8767 | 3.9428514 |
| 8702 | 3.9396191 | 8735 | 3.9412629 | 8768 | 3.9429000 |
| 8703 | 3.9396690 | 8736 | 3.9413126 | 8769 | 3.9429486 |
| 8704 | 3.9397189 | 8737 | 3.9413623 | 8770 | 3.9429972 |
| 8705 | 3.9397688 | 8738 | 3.9414120 | 8771 | 3.9430458 |
| 8706 | 3.9398187 | 8739 | 3.9414617 | 8772 | 3.9430944 |
| 8707 | 3.9398685 | 8740 | 3.9415114 | 8773 | 3.9431430 |
| 8708 | 3.9399184 | 8741 | 3.9415611 | 8774 | 3.9431916 |
| 8709 | 3.9399683 | 8742 | 3.9416108 | 8775 | 3.9432402 |
| 8710 | 3.9400182 | 8743 | 3.9416605 | 8776 | 3.9432888 |
| 8711 | 3.9400680 | 8744 | 3.9417101 | 8777 | 3.9433374 |
| 8712 | 3.9401179 | 8745 | 3.9417598 | 8778 | 3.9433860 |
| 8713 | 3.9401677 | 8746 | 3.9418095 | 8779 | 3.9434346 |
| 8714 | 3.9402176 | 8747 | 3.9418591 | 8780 | 3.9434832 |
| 8715 | 3.9402674 | 8748 | 3.9419088 | 8781 | 3.9435318 |
| 8716 | 3.9403172 | 8749 | 3.9419584 | 8782 | 3.9435804 |
| 8717 | 3.9403670 | 8750 | 3.9420081 | 8783 | 3.9436290 |
| 8718 | 3.9404169 | 8751 | 3.9420577 | 8784 | 3.9436776 |
| 8719 | 3.9404667 | 8752 | 3.9421073 | 8785 | 3.9437262 |
| 8720 | 3.9405165 | 8753 | 3.9421569 | 8786 | 3.9437748 |
| 8721 | 3.9405663 | 8754 | 3.9422065 | 8787 | 3.9438234 |
| 8722 | 3.9406161 | 8755 | 3.9422561 | 8788 | 3.9438720 |
| 8723 | 3.9406659 | 8756 | 3.9423058 | 8789 | 3.9439206 |
| 8724 | 3.9407157 | 8757 | 3.9423553 | 8790 | 3.9439692 |
| 8725 | 3.9407654 | 8758 | 3.9424049 | 8791 | 3.9440178 |
| 8726 | 3.9408152 | 8759 | 3.9424545 | 8792 | 3.9440664 |
| 8727 | 3.9408650 | 8760 | 3.9425041 | 8793 | 3.9441150 |
| 8728 | 3.9409147 | 8761 | 3.9425537 | 8794 | 3.9441636 |
| 8729 | 3.9409645 | 8762 | 3.9426032 | 8795 | 3.9442122 |
| 8730 | 3.9410142 | 8763 | 3.9426528 | 8796 | 3.9442608 |
| 8731 | 3.9410640 | 8764 | 3.9427024 | 8797 | 3.9443094 |
| 8732 | 3.9411137 | 8765 | 3.9427519 | 8798 | 3.9443580 |
| 8733 | 3.9411635 | 8766 | 3.9428015 | 8799 | 3.9444066 |
| 8734 | 3.9412132 | 8767 | 3.9428510 | 8800 | 3.9444552 |

8800

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8801 | 3.9445320 | 8834 | 3.9461574 | 8867 | 3.9477767 |
| 8802 | 3.9445814 | 8835 | 3.9462066 | 8868 | 3.9478257 |
| 8803 | 3.9446307 | 8836 | 3.9462557 | 8869 | 3.9478747 |
| 8804 | 3.9446800 | 8837 | 3.9463048 | 8870 | 3.9479236 |
| 8805 | 3.9447294 | 8838 | 3.9463540 | 8871 | 3.9479726 |
| 8806 | 3.9447787 | 8839 | 3.9464031 | 8872 | 3.9480215 |
| 8807 | 3.9448280 | 8840 | 3.9464523 | 8873 | 3.9480705 |
| 8808 | 3.9448773 | 8841 | 3.9465014 | 8874 | 3.9481194 |
| 8809 | 3.9449266 | 8842 | 3.9465505 | 8875 | 3.9481684 |
| 8810 | 3.9449759 | 8843 | 3.9465996 | 8876 | 3.9482173 |
| 8811 | 3.9450252 | 8844 | 3.9466487 | 8877 | 3.9482662 |
| 8812 | 3.9450745 | 8845 | 3.9466978 | 8878 | 3.9483151 |
| 8813 | 3.9451238 | 8846 | 3.9467469 | 8879 | 3.9483641 |
| 8814 | 3.9451730 | 8847 | 3.9467960 | 8880 | 3.9484130 |
| 8815 | 3.9452223 | 8848 | 3.9468451 | 8881 | 3.9484619 |
| 8816 | 3.9452716 | 8849 | 3.9468942 | 8882 | 3.9485108 |
| 8817 | 3.9453208 | 8850 | 3.9469433 | 8883 | 3.9485597 |
| 8818 | 3.9453701 | 8851 | 3.9469923 | 8884 | 3.9486085 |
| 8819 | 3.9454193 | 8852 | 3.9470414 | 8885 | 3.9486574 |
| 8820 | 3.9454686 | 8853 | 3.9470905 | 8886 | 3.9487063 |
| 8821 | 3.9455178 | 8854 | 3.9471395 | 8887 | 3.9487552 |
| 8822 | 3.9455671 | 8855 | 3.9471886 | 8888 | 3.9488040 |
| 8823 | 3.9456163 | 8856 | 3.9472376 | 8889 | 3.9488529 |
| 8824 | 3.9456655 | 8857 | 3.9472866 | 8890 | 3.9489018 |
| 8825 | 3.9457147 | 8858 | 3.9473357 | 8891 | 3.9489506 |
| 8826 | 3.9457639 | 8859 | 3.9473847 | 8892 | 3.9489995 |
| 8827 | 3.9458131 | 8860 | 3.9474337 | 8893 | 3.9490483 |
| 8828 | 3.9458623 | 8861 | 3.9474827 | 8894 | 3.9490971 |
| 8829 | 3.9459115 | 8862 | 3.9475317 | 8895 | 3.9491460 |
| 8830 | 3.9459607 | 8863 | 3.9475807 | 8896 | 3.9491948 |
| 8831 | 3.9460099 | 8864 | 3.9476297 | 8897 | 3.9492436 |
| 8832 | 3.9460591 | 8865 | 3.9476787 | 8898 | 3.9492924 |
| 8833 | 3.9461082 | 8866 | 3.9477277 | 8899 | 3.9493412 |
| 8834 | 3.9461574 | 8867 | 3.9477767 | 8900 | 3.9493900 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 8901 | 3.9494388 | 8934 | 3.9510459 | 8967 | 3.9526472 |
| 8902 | 3.9494876 | 8935 | 3.9510946 | 8968 | 3.9526956 |
| 8903 | 3.9495364 | 8936 | 3.9511432 | 8969 | 3.9527440 |
| 8904 | 3.9495852 | 8937 | 3.9511918 | 8970 | 3.9527924 |
| 8905 | 3.9496339 | 8938 | 3.9512404 | 8971 | 3.9528409 |
| 8906 | 3.9496827 | 8939 | 3.9512889 | 8972 | 3.9528893 |
| 8907 | 3.9497315 | 8940 | 3.9513375 | 8973 | 3.9529377 |
| 8908 | 3.9497802 | 8941 | 3.9513861 | 8974 | 3.9529861 |
| 8909 | 3.9498290 | 8942 | 3.9514347 | 8975 | 3.9530345 |
| 8910 | 3.9498777 | 8943 | 3.9514832 | 8976 | 3.9530828 |
| 8911 | 3.9499264 | 8944 | 3.9515318 | 8977 | 3.9531312 |
| 8912 | 3.9499752 | 8945 | 3.9515803 | 8978 | 3.9531796 |
| 8913 | 3.9500239 | 8946 | 3.9516289 | 8979 | 3.9532280 |
| 8914 | 3.9500726 | 8947 | 3.9516774 | 8980 | 3.9532763 |
| 8915 | 3.9501213 | 8948 | 3.9517260 | 8981 | 3.9533247 |
| 8916 | 3.9501701 | 8949 | 3.9517745 | 8982 | 3.9533730 |
| 8917 | 3.9502188 | 8950 | 3.9518230 | 8983 | 3.9534214 |
| 8918 | 3.9502675 | 8951 | 3.9518716 | 8984 | 3.9534697 |
| 8919 | 3.9503162 | 8952 | 3.9519201 | 8985 | 3.9535181 |
| 8920 | 3.9503649 | 8953 | 3.9519686 | 8986 | 3.9535664 |
| 8921 | 3.9504135 | 8954 | 3.9520171 | 8987 | 3.9536147 |
| 8922 | 3.9504622 | 8955 | 3.9520656 | 8988 | 3.9536631 |
| 8923 | 3.9505109 | 8956 | 3.9521141 | 8989 | 3.9537114 |
| 8924 | 3.9505596 | 8957 | 3.9521626 | 8990 | 3.9537597 |
| 8925 | 3.9506082 | 8958 | 3.9522111 | 8991 | 3.9538080 |
| 8926 | 3.9506569 | 8959 | 3.9522595 | 8992 | 3.9538563 |
| 8927 | 3.9507055 | 8960 | 3.9523080 | 8993 | 3.9539046 |
| 8928 | 3.9507542 | 8961 | 3.9523565 | 8994 | 3.9539529 |
| 8929 | 3.9508028 | 8962 | 3.9524049 | 8995 | 3.9540012 |
| 8930 | 3.9508515 | 8963 | 3.9524534 | 8996 | 3.9540494 |
| 8931 | 3.9509001 | 8964 | 3.9525018 | 8997 | 3.9540977 |
| 8932 | 3.9509487 | 8965 | 3.9525503 | 8998 | 3.9541460 |
| 8933 | 3.9509973 | 8966 | 3.9525987 | 8999 | 3.9541943 |
| 8934 | 3.9510459 | 8967 | 3.9526472 | 9000 | 3.9542425 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9001 | 3.9542908 | 9034 | 3.9558801 | 9067 | 3.9574636 |
| 9002 | 3.9543390 | 9035 | 3.9559282 | 9068 | 3.9575115 |
| 9003 | 3.9543872 | 9036 | 3.9559762 | 9069 | 3.9575594 |
| 9004 | 3.9544355 | 9037 | 3.9560243 | 9070 | 3.9576073 |
| 9005 | 3.9544837 | 9038 | 3.9560723 | 9071 | 3.9576552 |
| 9006 | 3.9545319 | 9039 | 3.9561204 | 9072 | 3.9577030 |
| 9007 | 3.9545802 | 9040 | 3.9561684 | 9073 | 3.9577509 |
| 9008 | 3.9546284 | 9041 | 3.9562165 | 9074 | 3.9577988 |
| 9009 | 3.9546766 | 9042 | 3.9562645 | 9075 | 3.9578466 |
| 9010 | 3.9547248 | 9043 | 3.9563125 | 9076 | 3.9578945 |
| 9011 | 3.9547730 | 9044 | 3.9563606 | 9077 | 3.9579423 |
| 9012 | 3.9548212 | 9045 | 3.9564086 | 9078 | 3.9579902 |
| 9013 | 3.9548694 | 9046 | 3.9564566 | 9079 | 3.9580380 |
| 9014 | 3.9549176 | 9047 | 3.9565046 | 9080 | 3.9580858 |
| 9015 | 3.9549657 | 9048 | 3.9565526 | 9081 | 3.9581337 |
| 9016 | 3.9550139 | 9049 | 3.9566006 | 9082 | 3.9581815 |
| 9017 | 3.9550621 | 9050 | 3.9566486 | 9083 | 3.9582293 |
| 9018 | 3.9551102 | 9051 | 3.9566966 | 9084 | 3.9582771 |
| 9019 | 3.9551584 | 9052 | 3.9567445 | 9085 | 3.9583249 |
| 9020 | 3.9552065 | 9053 | 3.9567925 | 9086 | 3.9583727 |
| 9021 | 3.9552547 | 9054 | 3.9568405 | 9087 | 3.9584205 |
| 9022 | 3.9553028 | 9055 | 3.9568885 | 9088 | 3.9584683 |
| 9023 | 3.9553510 | 9056 | 3.9569364 | 9089 | 3.9585161 |
| 9024 | 3.9553991 | 9057 | 3.9569844 | 9090 | 3.9585639 |
| 9025 | 3.9554472 | 9058 | 3.9570323 | 9091 | 3.9586117 |
| 9026 | 3.9554953 | 9059 | 3.9570803 | 9092 | 3.9586594 |
| 9027 | 3.9555434 | 9060 | 3.9571282 | 9093 | 3.9587072 |
| 9028 | 3.9555915 | 9061 | 3.9571761 | 9094 | 3.9587549 |
| 9029 | 3.9556397 | 9062 | 3.9572241 | 9095 | 3.9588027 |
| 9030 | 3.9556877 | 9063 | 3.9572720 | 9096 | 3.9588505 |
| 9031 | 3.9557358 | 9064 | 3.9573199 | 9097 | 3.9588982 |
| 9032 | 3.9557839 | 9065 | 3.9573678 | 9098 | 3.9589459 |
| 9033 | 3.9558320 | 9066 | 3.9574157 | 9099 | 3.9589937 |
| 9034 | 3.9558801 | 9067 | 3.9574636 | 9100 | 3.9590414 |

| N. | Logarithm. | N. | Logarithm | N. | Logarithm. |
|------|------------|------|-----------|------|------------|
| 9101 | 3.9590891 | 9134 | 3.9606610 | 9167 | 3.9622272 |
| 9102 | 3.9591368 | 9135 | 3.9607086 | 9168 | 3.9622746 |
| 9103 | 3.9591845 | 9136 | 3.9607561 | 9169 | 3.9623220 |
| 9104 | 3.9592322 | 9137 | 3.9608036 | 9170 | 3.9623694 |
| 9105 | 3.9592799 | 9138 | 3.9608512 | 9171 | 3.9624167 |
| 9106 | 3.9593276 | 9139 | 3.9608987 | 9172 | 3.9624640 |
| 9107 | 3.9593753 | 9140 | 3.9609462 | 9173 | 3.9625114 |
| 9108 | 3.9594230 | 9141 | 3.9609937 | 9174 | 3.9625587 |
| 9109 | 3.9594707 | 9142 | 3.9610412 | 9175 | 3.9626061 |
| 9110 | 3.9595184 | 9143 | 3.9610887 | 9176 | 3.9626534 |
| 9111 | 3.9595660 | 9144 | 3.9611362 | 9177 | 3.9627007 |
| 9112 | 3.9596137 | 9145 | 3.9611837 | 9178 | 3.9627481 |
| 9113 | 3.9596614 | 9146 | 3.9612312 | 9179 | 3.9627954 |
| 9114 | 3.9597090 | 9147 | 3.9612787 | 9180 | 3.9628427 |
| 9115 | 3.9597567 | 9148 | 3.9613262 | 9181 | 3.9628900 |
| 9116 | 3.9598043 | 9149 | 3.9613736 | 9182 | 3.9629373 |
| 9117 | 3.9598520 | 9150 | 3.9614211 | 9183 | 3.9629846 |
| 9118 | 3.9598996 | 9151 | 3.9614686 | 9184 | 3.9630319 |
| 9119 | 3.9599472 | 9152 | 3.9615160 | 9185 | 3.9630792 |
| 9120 | 3.9599948 | 9153 | 3.9615635 | 9186 | 3.9631265 |
| 9121 | 3.9600425 | 9154 | 3.9616109 | 9187 | 3.9631738 |
| 9122 | 3.9600901 | 9155 | 3.9616583 | 9188 | 3.9632211 |
| 9123 | 3.9601377 | 9156 | 3.9617058 | 9189 | 3.9632684 |
| 9124 | 3.9601853 | 9157 | 3.9617532 | 9190 | 3.9633157 |
| 9125 | 3.9602329 | 9158 | 3.9618006 | 9191 | 3.9633630 |
| 9126 | 3.9602805 | 9159 | 3.9618481 | 9192 | 3.9634103 |
| 9127 | 3.9603280 | 9160 | 3.9618955 | 9193 | 3.9634576 |
| 9128 | 3.9603756 | 9161 | 3.9619429 | 9194 | 3.9635049 |
| 9129 | 3.9604232 | 9162 | 3.9619903 | 9195 | 3.9635522 |
| 9130 | 3.9604708 | 9163 | 3.9620377 | 9196 | 3.9635995 |
| 9131 | 3.9605183 | 9164 | 3.9620851 | 9197 | 3.9636468 |
| 9132 | 3.9605659 | 9165 | 3.9621325 | 9198 | 3.9636941 |
| 9133 | 3.9606135 | 9166 | 3.9621799 | 9199 | 3.9637414 |
| 9134 | 3.9606610 | 9167 | 3.9622272 | 9200 | 3.9637887 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9201 | 3.9638350 | 9234 | 3.9653899 | 9267 | 3.9669392 |
| 9202 | 3.9638822 | 9235 | 3.9654369 | 9268 | 3.9669860 |
| 9203 | 3.9639294 | 9236 | 3.9654839 | 9269 | 3.9670329 |
| 9204 | 3.9639766 | 9237 | 3.9655309 | 9270 | 3.9670797 |
| 9205 | 3.9640238 | 9238 | 3.9655780 | 9271 | 3.9671266 |
| 9206 | 3.9640710 | 9239 | 3.9656250 | 9272 | 3.9671734 |
| 9207 | 3.9641181 | 9240 | 3.9656720 | 9273 | 3.9672203 |
| 9208 | 3.9641653 | 9241 | 3.9657190 | 9274 | 3.9672671 |
| 9209 | 3.9642125 | 9242 | 3.9657660 | 9275 | 3.9673139 |
| 9210 | 3.9642596 | 9243 | 3.9658130 | 9276 | 3.9673607 |
| 9211 | 3.9643068 | 9244 | 3.9658599 | 9277 | 3.9674076 |
| 9212 | 3.9643539 | 9245 | 3.9659069 | 9278 | 3.9674544 |
| 9213 | 3.9644011 | 9246 | 3.9659539 | 9279 | 3.9675012 |
| 9214 | 3.9644482 | 9247 | 3.9660009 | 9280 | 3.9675480 |
| 9215 | 3.9644953 | 9248 | 3.9660478 | 9281 | 3.9675948 |
| 9216 | 3.9645425 | 9249 | 3.9660948 | 9282 | 3.9676416 |
| 9217 | 3.9645896 | 9250 | 3.9661417 | 9283 | 3.9676883 |
| 9218 | 3.9646367 | 9251 | 3.9661887 | 9284 | 3.9677351 |
| 9219 | 3.9646838 | 9252 | 3.9662356 | 9285 | 3.9677819 |
| 9220 | 3.9647309 | 9253 | 3.9662826 | 9286 | 3.9678287 |
| 9221 | 3.9647780 | 9254 | 3.9663295 | 9287 | 3.9678754 |
| 9222 | 3.9648251 | 9255 | 3.9663764 | 9288 | 3.9679222 |
| 9223 | 3.9648722 | 9256 | 3.9664233 | 9289 | 3.9679690 |
| 9224 | 3.9649193 | 9257 | 3.9664703 | 9290 | 3.9680157 |
| 9225 | 3.9649664 | 9258 | 3.9665172 | 9291 | 3.9680625 |
| 9226 | 3.9650134 | 9259 | 3.9665641 | 9292 | 3.9681092 |
| 9227 | 3.9650605 | 9260 | 3.9666110 | 9293 | 3.9681559 |
| 9228 | 3.9651076 | 9261 | 3.9666579 | 9294 | 3.9682027 |
| 9229 | 3.9651546 | 9262 | 3.9667048 | 9295 | 3.9682494 |
| 9230 | 3.9652017 | 9263 | 3.9667517 | 9296 | 3.9682961 |
| 9231 | 3.9652488 | 9264 | 3.9667985 | 9297 | 3.9683428 |
| 9232 | 3.9652958 | 9265 | 3.9668454 | 9298 | 3.9683895 |
| 9233 | 3.9653428 | 9266 | 3.9668923 | 9299 | 3.9684362 |
| 9234 | 3.9653899 | 9267 | 3.9669392 | 9300 | 3.9684829 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9301 | 3.968529 | 9334 | 3.9700678 | 9367 | 3.9716005 |
| 9302 | 3.9685763 | 9335 | 3.9701143 | 9368 | 3.9716469 |
| 9303 | 3.9686230 | 9336 | 3.9701608 | 9369 | 3.9716932 |
| 9304 | 3.9686697 | 9337 | 3.9702074 | 9370 | 3.9717396 |
| 9305 | 3.9687164 | 9338 | 3.9702539 | 9371 | 3.9717859 |
| 9306 | 3.9687630 | 9339 | 3.9703004 | 9372 | 3.9718323 |
| 9307 | 3.9688097 | 9340 | 3.9703469 | 9373 | 3.9718786 |
| 9308 | 3.9688564 | 9341 | 3.9703934 | 9374 | 3.9719249 |
| 9309 | 3.9689030 | 9342 | 3.9704399 | 9375 | 3.9719713 |
| 9310 | 3.9689497 | 9343 | 3.9704863 | 9376 | 3.9720176 |
| 9311 | 3.9689963 | 9344 | 3.9705328 | 9377 | 3.9720639 |
| 9312 | 3.9690430 | 9345 | 3.9705793 | 9378 | 3.9721102 |
| 9313 | 3.9690896 | 9346 | 3.9706258 | 9379 | 3.9721565 |
| 9314 | 3.9691362 | 9347 | 3.9706722 | 9380 | 3.9722028 |
| 9315 | 3.9691829 | 9348 | 3.9707187 | 9381 | 3.9722491 |
| 9316 | 3.9692295 | 9349 | 3.9707652 | 9382 | 3.9722954 |
| 9317 | 3.9692761 | 9350 | 3.9708116 | 9383 | 3.9723417 |
| 9318 | 3.9693227 | 9351 | 3.9708581 | 9384 | 3.9723880 |
| 9319 | 3.9693693 | 9352 | 3.9709045 | 9385 | 3.9724343 |
| 9320 | 3.9694159 | 9353 | 3.9709509 | 9386 | 3.9724805 |
| 9321 | 3.9694625 | 9354 | 3.9709974 | 9387 | 3.9725268 |
| 9322 | 3.9695091 | 9355 | 3.9710438 | 9388 | 3.9725731 |
| 9323 | 3.9695557 | 9356 | 3.9710902 | 9389 | 3.9726193 |
| 9324 | 3.9696023 | 9357 | 3.9711366 | 9390 | 3.9726656 |
| 9325 | 3.9696488 | 9358 | 3.9711830 | 9391 | 3.9727118 |
| 9326 | 3.9696954 | 9359 | 3.9712294 | 9392 | 3.9727581 |
| 9327 | 3.9697420 | 9360 | 3.9712758 | 9393 | 3.9728043 |
| 9328 | 3.9697885 | 9361 | 3.9713222 | 9394 | 3.9728506 |
| 9329 | 3.9698351 | 9362 | 3.9713686 | 9395 | 3.9728968 |
| 9330 | 3.9698816 | 9363 | 3.9714150 | 9396 | 3.9729430 |
| 9331 | 3.9699282 | 9364 | 3.9714614 | 9397 | 3.9729892 |
| 9332 | 3.9699747 | 9365 | 3.9715078 | 9398 | 3.9730354 |
| 9333 | 3.9700213 | 9366 | 3.9715542 | 9399 | 3.9730816 |
| 9334 | 3.9700678 | 9367 | 3.9716005 | 9400 | 3.9731279 |

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9401 | 3.9731741 | 9434 | 3.9746959 | 9467 | 3.9762124 |
| 9402 | 3.9732202 | 9435 | 3.9747419 | 9468 | 3.9762582 |
| 9403 | 3.9732664 | 9436 | 3.9747879 | 9469 | 3.9763041 |
| 9404 | 3.9733126 | 9437 | 3.9748340 | 9470 | 3.9763500 |
| 9405 | 3.9733588 | 9438 | 3.9748800 | 9471 | 3.9763958 |
| 9406 | 3.9734050 | 9439 | 3.9749260 | 9472 | 3.9764417 |
| 9407 | 3.9734511 | 9440 | 3.9749720 | 9473 | 3.9764875 |
| 9408 | 3.9734973 | 9441 | 3.9750180 | 9474 | 3.9765334 |
| 9409 | 3.9735435 | 9442 | 3.9750640 | 9475 | 3.9765792 |
| 9410 | 3.9735896 | 9443 | 3.9751100 | 9476 | 3.9766251 |
| 9411 | 3.9736358 | 9444 | 3.9751560 | 9477 | 3.9766709 |
| 9412 | 3.9736819 | 9445 | 3.9752020 | 9478 | 3.9767167 |
| 9413 | 3.9737281 | 9446 | 3.9752479 | 9479 | 3.9767625 |
| 9414 | 3.9737742 | 9447 | 3.9752939 | 9480 | 3.9768083 |
| 9415 | 3.9738203 | 9448 | 3.9753399 | 9481 | 3.9768541 |
| 9416 | 3.9738664 | 9449 | 3.9753858 | 9482 | 3.9768999 |
| 9417 | 3.9739126 | 9450 | 3.9754318 | 9483 | 3.9769457 |
| 9418 | 3.9739587 | 9451 | 3.9754778 | 9484 | 3.9769915 |
| 9419 | 3.9740048 | 9452 | 3.9755237 | 9485 | 3.9770373 |
| 9420 | 3.9740509 | 9453 | 3.9755697 | 9486 | 3.9770831 |
| 9421 | 3.9740970 | 9454 | 3.9756156 | 9487 | 3.9771289 |
| 9422 | 3.9741431 | 9455 | 3.9756615 | 9488 | 3.9771747 |
| 9423 | 3.9741892 | 9456 | 3.9757075 | 9489 | 3.9772204 |
| 9424 | 3.9742353 | 9457 | 3.9757534 | 9490 | 3.9772662 |
| 9425 | 3.9742814 | 9458 | 3.9757993 | 9491 | 3.9773120 |
| 9426 | 3.9743274 | 9459 | 3.9758452 | 9492 | 3.9773577 |
| 9427 | 3.9743735 | 9460 | 3.9758911 | 9493 | 3.9774035 |
| 9428 | 3.9744196 | 9461 | 3.9759370 | 9494 | 3.9774492 |
| 9429 | 3.9744656 | 9462 | 3.9759829 | 9495 | 3.9774950 |
| 9430 | 3.9745117 | 9463 | 3.9760288 | 9496 | 3.9775407 |
| 9431 | 3.9745577 | 9464 | 3.9760747 | 9497 | 3.9775864 |
| 9432 | 3.9746038 | 9465 | 3.9761206 | 9498 | 3.9776322 |
| 9433 | 3.9746498 | 9466 | 3.9761665 | 9499 | 3.9776779 |
| 9434 | 3.9746959 | 9467 | 3.9762124 | 9500 | 3.9777236 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 9501 | 3.9777693 | 9534 | 3.9792751 | 9567 | 3.9807758 |
| 9502 | 3.9778150 | 9535 | 3.9793207 | 9568 | 3.9808212 |
| 9503 | 3.9778607 | 9536 | 3.9793662 | 9569 | 3.9808666 |
| 9504 | 3.9779064 | 9537 | 3.9794118 | 9570 | 3.9809119 |
| 9505 | 3.9779521 | 9538 | 3.9794573 | 9571 | 3.9809573 |
| 9506 | 3.9779978 | 9539 | 3.9795028 | 9572 | 3.9810027 |
| 9507 | 3.9780435 | 9540 | 3.9795484 | 9573 | 3.9810481 |
| 9508 | 3.9780892 | 9541 | 3.9795939 | 9574 | 3.9810934 |
| 9509 | 3.9781348 | 9542 | 3.9796394 | 9575 | 3.9811388 |
| 9510 | 3.9781805 | 9543 | 3.9796849 | 9576 | 3.9811841 |
| 9511 | 3.9782262 | 9544 | 3.9797304 | 9577 | 3.9812295 |
| 9512 | 3.9782718 | 9545 | 3.9797759 | 9578 | 3.9812748 |
| 9513 | 3.9783175 | 9546 | 3.9798214 | 9579 | 3.9813202 |
| 9514 | 3.9783631 | 9547 | 3.9798669 | 9580 | 3.9813655 |
| 9515 | 3.9784088 | 9548 | 3.9799124 | 9581 | 3.9814108 |
| 9516 | 3.9784544 | 9549 | 3.9799579 | 9582 | 3.9814562 |
| 9517 | 3.9785001 | 9550 | 3.9800034 | 9583 | 3.9815015 |
| 9518 | 3.9785457 | 9551 | 3.9800488 | 9584 | 3.9815468 |
| 9519 | 3.9785913 | 9552 | 3.9800943 | 9585 | 3.9815921 |
| 9520 | 3.9786369 | 9553 | 3.9801398 | 9586 | 3.9816374 |
| 9521 | 3.9786826 | 9554 | 3.9801852 | 9587 | 3.9816827 |
| 9522 | 3.9787282 | 9555 | 3.9802307 | 9588 | 3.9817280 |
| 9523 | 3.9787738 | 9556 | 3.9802761 | 9589 | 3.9817733 |
| 9524 | 3.9788194 | 9557 | 3.9803216 | 9590 | 3.9818186 |
| 9525 | 3.9788650 | 9558 | 3.9803670 | 9591 | 3.9818639 |
| 9526 | 3.9789106 | 9559 | 3.9804125 | 9592 | 3.9819092 |
| 9527 | 3.9789562 | 9560 | 3.9804579 | 9593 | 3.9819544 |
| 9528 | 3.9790017 | 9561 | 3.9805033 | 9594 | 3.9819997 |
| 9529 | 3.9790473 | 9562 | 3.9805487 | 9595 | 3.9820450 |
| 9530 | 3.9790929 | 9563 | 3.9805942 | 9596 | 3.9820902 |
| 9531 | 3.9791385 | 9564 | 3.9806396 | 9597 | 3.98213 |
| 9532 | 3.9791840 | 9565 | 3.9806850 | 9598 | 3.98218 |
| 9533 | 3.9792296 | 9566 | 3.9807304 | 9599 | 3.98222 |
| 9534 | 3.9792751 | 9567 | 3.9807758 | 9600 | 3.98227 |

| N. | Logarithh. | N. | Logarithh. | N. | Logarithh. |
|------|------------|------|------------|------|------------|
| 9601 | 3.9823165 | 9634 | 3.9838066 | 9667 | 3.9852917 |
| 9602 | 3.9823617 | 9635 | 3.9838517 | 9668 | 3.9853366 |
| 9603 | 3.9824069 | 9636 | 3.9838968 | 9669 | 3.9853816 |
| 9604 | 3.9824522 | 9637 | 3.9839419 | 9670 | 3.9854265 |
| 9605 | 3.9824974 | 9638 | 3.9839869 | 9671 | 3.9854714 |
| 9606 | 3.9825426 | 9639 | 3.9840320 | 9672 | 3.9855163 |
| 9607 | 3.9825878 | 9640 | 3.9840770 | 9673 | 3.9855612 |
| 9608 | 3.9826330 | 9641 | 3.9841221 | 9674 | 3.9856061 |
| 9609 | 3.9826782 | 9642 | 3.9841671 | 9675 | 3.9856510 |
| 9610 | 3.9827234 | 9643 | 3.9842122 | 9676 | 3.9856959 |
| 9611 | 3.9827686 | 9644 | 3.9842572 | 9677 | 3.9857407 |
| 9612 | 3.9828138 | 9645 | 3.9843022 | 9678 | 3.9857856 |
| 9613 | 3.9828589 | 9646 | 3.9843473 | 9679 | 3.9858305 |
| 9614 | 3.9829041 | 9647 | 3.9843923 | 9680 | 3.9858754 |
| 9615 | 3.9829493 | 9648 | 3.9844373 | 9681 | 3.9859202 |
| 9616 | 3.9829945 | 9649 | 3.9844823 | 9682 | 3.9859651 |
| 9617 | 3.9830396 | 9650 | 3.9845273 | 9683 | 3.9860099 |
| 9618 | 3.9830848 | 9651 | 3.9845723 | 9684 | 3.9860548 |
| 9619 | 3.9831299 | 9652 | 3.9846173 | 9685 | 3.9860996 |
| 9620 | 3.9831751 | 9653 | 3.9846623 | 9686 | 3.9861445 |
| 9621 | 3.9832202 | 9654 | 3.9847073 | 9687 | 3.9861893 |
| 9622 | 3.9832654 | 9655 | 3.9847523 | 9688 | 3.9862341 |
| 9623 | 3.9833105 | 9656 | 3.9847973 | 9689 | 3.9862790 |
| 9624 | 3.9833556 | 9657 | 3.9848422 | 9690 | 3.9863238 |
| 9625 | 3.9834007 | 9658 | 3.9848872 | 9691 | 3.9863686 |
| 9626 | 3.9834459 | 9659 | 3.9849322 | 9692 | 3.9864134 |
| 9627 | 3.9834910 | 9660 | 3.9849771 | 9693 | 3.9864582 |
| 9628 | 3.9835361 | 9661 | 3.9850221 | 9694 | 3.9865030 |
| 9629 | 3.9835812 | 9662 | 3.9850670 | 9695 | 3.9865478 |
| 9630 | 3.9836263 | 9663 | 3.9851120 | 9696 | 3.9865926 |
| 9631 | 3.9836714 | 9664 | 3.9851569 | 9697 | 3.9866374 |
| 9632 | 3.9837165 | 9665 | 3.9852019 | 9698 | 3.9866822 |
| 9633 | 3.9837616 | 9666 | 3.9852468 | 9699 | 3.9867270 |
| 9634 | 3.9838066 | 9667 | 3.9852917 | 9700 | 3.9867717 |

| N. | Logarithb. | N. | Logarithb. | N. | Logarithb. |
|------|------------|------|------------|------|------------|
| 9701 | 3.9868165 | 9734 | 3.9882913 | 9767 | 3.98976 |
| 9702 | 3.9868613 | 9735 | 3.9883360 | 9768 | 3.98980 |
| 9703 | 3.9869060 | 9736 | 3.9883806 | 9769 | 3.98984 |
| 9704 | 3.9869508 | 9737 | 3.9884252 | 9770 | 3.98988 |
| 9705 | 3.9869955 | 9738 | 3.9884698 | 9771 | 3.98992 |
| 9706 | 3.9870403 | 9739 | 3.9885144 | 9772 | 3.98996 |
| 9707 | 3.9870850 | 9740 | 3.9885590 | 9773 | 3.99000 |
| 9708 | 3.9871298 | 9741 | 3.9886035 | 9774 | 3.99004 |
| 9709 | 3.9871745 | 9742 | 3.9886481 | 9775 | 3.99008 |
| 9710 | 3.9872192 | 9743 | 3.9886927 | 9776 | 3.99012 |
| 9711 | 3.9872640 | 9744 | 3.9887373 | 9777 | 3.99016 |
| 9712 | 3.9873087 | 9745 | 3.9887818 | 9778 | 3.99020 |
| 9713 | 3.9873534 | 9746 | 3.9888264 | 9779 | 3.99024 |
| 9714 | 3.9873981 | 9747 | 3.9888710 | 9780 | 3.99028 |
| 9715 | 3.9874428 | 9748 | 3.9889155 | 9781 | 3.99032 |
| 9716 | 3.9874875 | 9749 | 3.9889601 | 9782 | 3.99036 |
| 9717 | 3.9875322 | 9750 | 3.9890046 | 9783 | 3.99040 |
| 9718 | 3.9875769 | 9751 | 3.9890492 | 9784 | 3.99044 |
| 9719 | 3.9876216 | 9752 | 3.9890937 | 9785 | 3.99048 |
| 9720 | 3.9876663 | 9753 | 3.9891382 | 9786 | 3.99052 |
| 9721 | 3.9877109 | 9754 | 3.9891828 | 9787 | 3.99056 |
| 9722 | 3.9877556 | 9755 | 3.9892273 | 9788 | 3.99060 |
| 9723 | 3.9878003 | 9756 | 3.9892718 | 9789 | 3.99064 |
| 9724 | 3.9878449 | 9757 | 3.9893163 | 9790 | 3.99068 |
| 9725 | 3.9878896 | 9758 | 3.9893608 | 9791 | 3.99072 |
| 9726 | 3.9879343 | 9759 | 3.9894053 | 9792 | 3.99076 |
| 9727 | 3.9879789 | 9760 | 3.9894498 | 9793 | 3.99080 |
| 9728 | 3.9880236 | 9761 | 3.9894943 | 9794 | 3.99084 |
| 9729 | 3.9880682 | 9762 | 3.9895388 | 9795 | 3.99088 |
| 9730 | 3.9881128 | 9763 | 3.9895833 | 9796 | 3.99092 |
| 9731 | 3.9881575 | 9764 | 3.9896278 | 9797 | 3.99096 |
| 9732 | 3.9882021 | 9765 | 3.9896722 | 9798 | 3.99100 |
| 9733 | 3.9882467 | 9766 | 3.9897167 | 9799 | 3.99104 |
| 9734 | 3.9882913 | 9767 | 3.9897612 | 9800 | 3.99108 |

9800

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|------|-----------|
| 9801 | 3.9912704 | 9834 | 3.9927302 | 9867 | 3.9941851 |
| 9802 | 3.9913147 | 9835 | 3.9927744 | 9868 | 3.9942291 |
| 9803 | 3.9913590 | 9836 | 3.9928185 | 9869 | 3.9942731 |
| 9804 | 3.9914033 | 9837 | 3.9928627 | 9870 | 3.9943172 |
| 9805 | 3.9914476 | 9838 | 3.9929068 | 9871 | 3.9943612 |
| 9806 | 3.9914919 | 9839 | 3.9929510 | 9872 | 3.9944051 |
| 9807 | 3.9915362 | 9840 | 3.9929951 | 9873 | 3.9944491 |
| 9808 | 3.9915805 | 9841 | 3.9930392 | 9874 | 3.9944931 |
| 9809 | 3.9916247 | 9842 | 3.9930834 | 9875 | 3.9945371 |
| 9810 | 3.9916690 | 9843 | 3.9931275 | 9876 | 3.9945811 |
| 9811 | 3.9917133 | 9844 | 3.9931716 | 9877 | 3.9946251 |
| 9812 | 3.9917575 | 9845 | 3.9932157 | 9878 | 3.9946690 |
| 9813 | 3.9918018 | 9846 | 3.9932598 | 9879 | 3.9947130 |
| 9814 | 3.9918461 | 9847 | 3.9933039 | 9880 | 3.9947569 |
| 9815 | 3.9918903 | 9848 | 3.9933480 | 9881 | 3.9948009 |
| 9816 | 3.9919345 | 9849 | 3.9933921 | 9882 | 3.9948448 |
| 9817 | 3.9919788 | 9850 | 3.9934362 | 9883 | 3.9948888 |
| 9818 | 3.9920230 | 9851 | 3.9934803 | 9884 | 3.9949327 |
| 9819 | 3.9920673 | 9852 | 3.9935244 | 9885 | 3.9949767 |
| 9820 | 3.9921115 | 9853 | 3.9935685 | 9886 | 3.9950206 |
| 9821 | 3.9921557 | 9854 | 3.9936126 | 9887 | 3.9950645 |
| 9822 | 3.9921999 | 9855 | 3.9936566 | 9888 | 3.9951085 |
| 9823 | 3.9922441 | 9856 | 3.9937007 | 9889 | 3.9951524 |
| 9824 | 3.9922884 | 9857 | 3.9937448 | 9890 | 3.9951963 |
| 9825 | 3.9923326 | 9858 | 3.9937888 | 9891 | 3.9952402 |
| 9826 | 3.9923768 | 9859 | 3.9938329 | 9892 | 3.9952841 |
| 9827 | 3.9924210 | 9860 | 3.9938769 | 9893 | 3.9953280 |
| 9828 | 3.9924651 | 9861 | 3.9939210 | 9894 | 3.9953719 |
| 9829 | 3.9925093 | 9862 | 3.9939650 | 9895 | 3.9954158 |
| 9830 | 3.9925535 | 9863 | 3.9940090 | 9896 | 3.9954597 |
| 9831 | 3.9925977 | 9864 | 3.9940531 | 9897 | 3.9955036 |
| 9832 | 3.9926419 | 9865 | 3.9940971 | 9898 | 3.9955474 |
| 9833 | 3.9926860 | 9866 | 3.9941411 | 9899 | 3.9955913 |
| 9834 | 3.9927302 | 9867 | 3.9941851 | 9900 | 3.9956352 |

9900

| N. | Logarith. | N. | Logarith. | N. | Logarith. |
|------|-----------|------|-----------|-------|-----------|
| 9901 | 3.9956791 | 9934 | 3.9971242 | 9967 | 3.9985645 |
| 9902 | 3.9957229 | 9935 | 3.9971679 | 9968 | 3.9986080 |
| 9903 | 3.9957668 | 9936 | 3.9972116 | 9969 | 3.9986516 |
| 9904 | 3.9958106 | 9937 | 3.9972553 | 9970 | 3.9986952 |
| 9905 | 3.9958545 | 9938 | 3.9972990 | 9971 | 3.9987387 |
| 9906 | 3.9958983 | 9939 | 3.9973427 | 9972 | 3.9987823 |
| 9907 | 3.9959422 | 9940 | 3.9973864 | 9973 | 3.9988258 |
| 9908 | 3.9959860 | 9941 | 3.9974301 | 9974 | 3.9988694 |
| 9909 | 3.9960298 | 9942 | 3.9974738 | 9975 | 3.9989129 |
| 9910 | 3.9960737 | 9943 | 3.9975174 | 9976 | 3.9989564 |
| 9911 | 3.9961175 | 9944 | 3.9975611 | 9977 | 3.9990000 |
| 9912 | 3.9961613 | 9945 | 3.9976048 | 9978 | 3.9990435 |
| 9913 | 3.9962051 | 9946 | 3.9976485 | 9979 | 3.9990870 |
| 9914 | 3.9962489 | 9947 | 3.9976921 | 9980 | 3.9991305 |
| 9915 | 3.9962927 | 9948 | 3.9977358 | 9981 | 3.9991741 |
| 9916 | 3.9963365 | 9949 | 3.9977794 | 9982 | 3.9992176 |
| 9917 | 3.9963803 | 9950 | 3.9978231 | 9983 | 3.9992611 |
| 9918 | 3.9964241 | 9951 | 3.9978667 | 9984 | 3.9993046 |
| 9919 | 3.9964679 | 9952 | 3.9979104 | 9985 | 3.9993481 |
| 9920 | 3.9965117 | 9953 | 3.9979540 | 9986 | 3.9993916 |
| 9921 | 3.9965554 | 9954 | 3.9979976 | 9987 | 3.9994350 |
| 9922 | 3.9965992 | 9955 | 3.9980413 | 9988 | 3.9994785 |
| 9923 | 3.9966430 | 9956 | 3.9980849 | 9989 | 3.9995220 |
| 9924 | 3.9966868 | 9957 | 3.9981285 | 9990 | 3.9995655 |
| 9925 | 3.9967305 | 9958 | 3.9981721 | 9991 | 3.9996090 |
| 9926 | 3.9967743 | 9959 | 3.9982157 | 9992 | 3.9996524 |
| 9927 | 3.9968180 | 9960 | 3.9982593 | 9993 | 3.9996959 |
| 9928 | 3.9968618 | 9961 | 3.9983029 | 9994 | 3.9997393 |
| 9929 | 3.9969055 | 9962 | 3.9983465 | 9995 | 3.9997828 |
| 9930 | 3.9969492 | 9963 | 3.9983901 | 9996 | 3.9998262 |
| 9931 | 3.9969930 | 9964 | 3.9984337 | 9997 | 3.9998697 |
| 9932 | 3.9970367 | 9965 | 3.9984773 | 9998 | 3.9999131 |
| 9933 | 3.9970804 | 9966 | 3.9985209 | 9999 | 3.9999566 |
| 9934 | 3.9971242 | 9967 | 3.9985645 | 10000 | 4.0000000 |





