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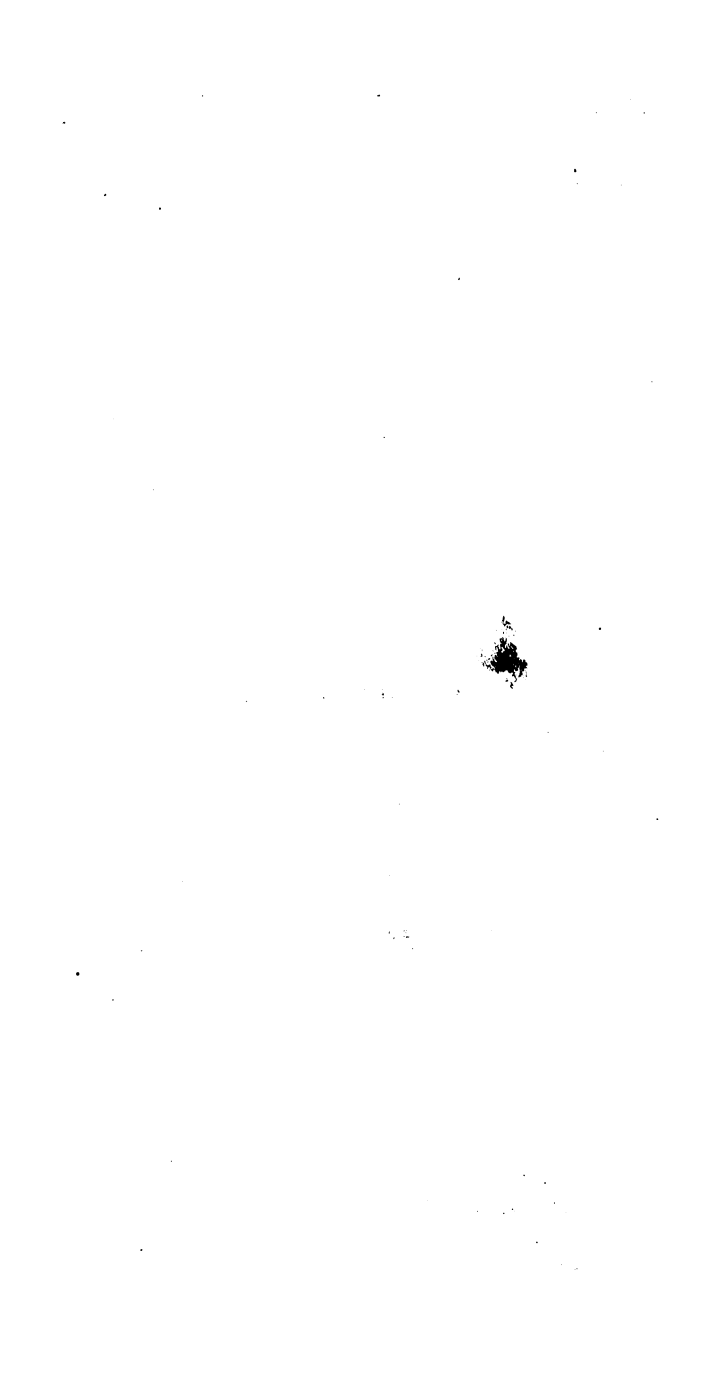












8.6,
11

TABLES DE LOGARITHMES

DES NOMBRES DEPUIS 1 JUSQU'A 21750;

5 SINUS, COSINUS, TANGENTES et COTANGENTES
pour chaque minute du quart de cercle;

SUIVIES

1e TABLE CENTÉSIMALE donnant les Logarithmes de ces
èmes lignes pour chaque cent-millième du QUADRANS,
depuis 0,0000 jusqu'à 0,0300, et pour chaque dix-
illième depuis 0,0300 jusqu'à 0,5000.

Ch. Plouzeau

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AVERTISSEMENT

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J'AI fait paraître en 1795 l'édition in-8° stéréotype des Tables de logarithmes données par M. Callet. Elles offrent avec SEPT figures, indépendamment de la caractéristique, les logarithmes des nombres depuis 1 jusqu'à 108000, et les logarithmes sinus et tangentes de seconde en seconde pour les cinq premiers degrés, de dix en dix secondes pour tous les degrés du quart de cercle, et suivant la division centésimale de dix-millième en dix-millième ou minute nouvelle, etc. A chaque tirage, les fautes qui s'étaient glissées dans la première édition ont été corrigées d'après la révision de MM. Vega, Mascheroni, etc., et sur-tout de M. De Lalande, qui a mis à surveiller lui-même les corrections un zèle et un soin particuliers : aussi, depuis plus de cinq ans, n'a-t-on pas découvert dans les exemplaires des derniers tirages une seule faute, et on peut regarder ces éditions, et par conséquent celles qui paraîtront dorénavant, comme absolument correctes.

En 1802 a paru l'édition in-18 stéréotype, par J. De Lalande. Ces Tables donnent, avec CINQ figures, les logarithmes des nombres depuis 1 jusqu'à 10000, et les logarithmes des sinus et tangentes de minute en minute. Elles ont été corrigées avec tant de soin, que l'auteur n'a pas hésité de proposer 300 fr. pour chaque faute qu'on pourrait y découvrir.

Voici l'édition in-12 stéréotype, et du troisième format, que je mets sous les yeux du public. Ces Tables contiennent les logarithmes des nombres depuis 1 jusqu'à 21750, avec six figures, et les logarithmes des sinus et tangentes, de minute en minute. Elles sont plus commodes que celles de Lacaille pour leur disposition, la page contenant cinquante lignes pour les logarithmes des nombres, et soixante lignes pour les logarithmes des sinus. On y a ajouté les Tables de logarithmes sinus et tangentes calculées d'après la division centésimale du cercle, et disposées comme celles d'Ober et d'Ideler. Elles ont été revues avec le plus grand soin par des coopérateurs des grandes Tables de logarithmes, dites du Cadastre, et j'espère que MM. les calculateurs voudront bien nous indiquer les fautes qui auront pu échapper, afin

que ces Tables deviennent en peu de temps aussi correctes que les précédentes.

Actuellement je m'occupe de plus grands travaux, et je vais poursuivre la carrière que je me suis tracée en ce genre. Je commence à stéréotyper les Tables de logarithmes grand in-4°, par M. De Prony, directeur de l'École Impériale des Ponts-et-Chaussées.

Ces Tables ont été construites, d'après les méthodes et sous les yeux de M. De Prony, par des calculateurs, payés à mes frais, qui avaient travaillé à ses grandes Tables, dites du Cadastre.

Elles contiennent, avec huit figures, indépendamment de la Caractéristique :

1° Les logarithmes des Nombres entiers depuis 1 jusqu'à 10 000.

2° Les logarithmes des Nombres, de dixième en dixième d'unité, depuis 10 000 jusqu'à 20 000.

3° Les logarithmes des Nombres entiers depuis 20 000 jusqu'à 100 000.

4° Les logarithmes Sinus et Tangentes, de seconde en seconde, pour tous les degrés du quart de cercle.

Les Tables des logarithmes des Nombres sont entièrement nouvelles, et quant au fond et quant à la forme. D'abord elles contiennent 200 000 logarithmes, et les Tables les plus étendues que nous ayons n'en contiennent que 108 000 : ensuite, quoique les logarithmes de Vlacq, à dix figures, ne soient employés, avec toutes leurs décimales, que dans des cas extraordinaires, il est d'autres cas, beaucoup moins rares, où on a besoin de sept chiffres significatifs parfaitement exacts, qu'on ne peut obtenir qu'avec des Tables à huit figures, indépendamment de la caractéristique ; les calculs astronomiques, ceux où il entre des quantités dépendantes de la figure de la terre, ceux des nombres fondamentaux de diverses Tables qu'on peut avoir à construire par des additions successives, etc., etc., offriraient une foule d'exemples de la nécessité dont nous parlons. Or, les Tables de Gardiner, de Callet et de Taylor ne donnent, en général, que six chiffres parfaitement exacts : on a, sur le septième, quand on le calcule, une petite incertitude, qui, dans les Tables de M. De Prony, se trouve renvoyée au huitième chiffre.

Cependant l'infériorité des anciennes Tables, quant au nombre de chiffres exacts qu'elles donnent, serait, en partie, compensée par la facilité de l'interpolation, au moyen des parties proportionnelles, si M. De Prony n'avait pas

cherché et trouvé le moyen de donner aux calculateurs, à cet égard, autant et même plus de facilité que ne leur en donnent ces anciennes Tables. C'est, dans cette vue qu'il a fait calculer les logarithmes de 10 000 à 20 000 de dixième en dixième d'unité, et rendu ainsi, dans cet intervalle, les premières différences (qui sont les nombres fondamentaux des petites Tables marginales de parties proportionnelles) plus exactes, pour huit chiffres, qu'elles ne le sont pour sept chiffres, entre les mêmes limites, dans Gardiner, Callet, et Taylor. La marche par intervalles de dixième d'unités n'est plus nécessaire au-delà de 20 000.

Voilà la première fois que les Tables de Logarithmes donnent sept à huit chiffres par le simple usage des Tables marginales de parties proportionnelles; les Tables existantes à dix figures, qui seules peuvent donner ces sept à huit chiffres, exigent des calculs longs et fastidieux, et on peut ajouter que ces Tables sont rares et d'un prix très-élevé.

Enfin on trouve dans les Tables de M. De Prony, immédiatement, ou à vue, les logarithmes des Nombres entiers de 100 000 à 200 000 (on les prend entre 10 000 et 20 000, en employant la caractéristique convenable), autre circonstance nouvelle qui ajoute beaucoup à l'utilité de ces Tables.

Les divers avantages dont nous venons de parler auraient été perdus pour la Trigonométrie, c'est-à-dire, pour la branche de calcul où il importait le plus de les conserver, si les logarithmes Sinus et Tangentes n'avaient pas été calculés à huit figures, comme ceux des Nombres. Taylor, qui en a formé, ainsi que M. De Prony, une Table procédant de seconde en seconde, ne les donne qu'avec sept figures. Les Tables que j'annonce ont donc, à cet égard, une grande supériorité sur celles de Taylor; elles en ont une autre très-importante, relativement à la manière dont elles sont disposées pour prévenir toute erreur dans la recherche des Logarithmes, soit dans les Nombres, soit dans les Sinus. Un exemple pris au hasard justifiera mon assertion.

Dans les Tables de Taylor (voyez log. sin. de $23^{\circ} 13'$) la troisième ligne horizontale représente les trois chiffres qui doivent être placés immédiatement après la caractéristique 9, depuis 1" jusqu'à 55" inclusivement; le dernier à droite de ces chiffres n'est constant que jusqu'au log. sinus de $23^{\circ} 13' 55''$, et change à compter du log. suivant: le nombre 595 devient alors 596, mais rien n'indique explicitement dans ces Tables un tel changement, si ce n'est la rencontre d'un zéro formant la quatrième figure du logarithme; dans ce cas, le calculateur ne doit pas prendre

DISCOURS

PRÉLIMINAIRE.



LES Tables suivantes sont à six figures pour les lignes trigonométriques et pour les nombres.

L'usage des instruments de géodésie, divisés suivant le système métrique, exigeant des tables centésimales, nous donnons les logarithmes des sinus, cosinus, tangentes et cotangentes pour la division nouvelle du quart de cercle.

Le rapport de l'ancienne division du quart de cercle à la nouvelle étant 0,9, et 90° valant 5400' ou 324000", le grade ou degré nouveau vaudra 54' de l'ancien ; le 0,0001 ou minute nouvelle vaudra 32",4 et le 0,00001 sera égal à 3",24.

Ce rapport sert à convertir les degrés centésimaux en degrés sexagésimaux, et réciproquement.

Si l'on a 97 degrés nouveaux, pour connaître à quel nombre de degrés anciens ils répondent, il faut les multiplier par 9 et diviser le produit par 10, ce qui donne $87^\circ,3$, ces $\frac{3}{10}$ multipliés par 60, donnent 18', donc 97 grades valent $87^\circ 18'$.

Cette expression 0,0201 ou 2 grades et une minute nouvelle, équivaut à $1^\circ 48' 32",4$. En effet, en multipliant 201 par 9 il vient 1809, qu'il faut mettre sous cette forme $1^\circ,809$.

Multipliez 0,809 par 60 et vous aurez 48',540, multipliez encore 0,540 par 60 et il viendra 32",4.

Réciproquement si l'on veut convertir 87° 18' en grades, il faut convertir 18' en parties décimales de degré, en les divisant par 60, et l'on aura $\frac{18}{60} = 0,3$, et diviser ensuite 87°,3 ou 873 par 9, il vient 97 grades, ou 0, ^Q97. (Q exprimant le quart de cercle).

Soit encore 1° 48' 32",4, à convertir en grades, commencez par convertir les secondes et dixièmes de seconde en décimales de minute, en prenant le sixième de 32",4 rendu dix fois plus petit, et l'on aura 0',54; puis le sixième de 48',54, il viendra 0°,809, et enfin divisant 1°,809 par 0,9, pour avoir des grades, vous aurez 2 grades et une minute nouvelle ou 0,0201, comme nous le savions déjà.

Les méthodes employées pour calculer les logarithmes étant expliquées dans les traités d'algèbre, nous croyons pouvoir nous dispenser de les rappeler au Lecteur. Nous nous bornerons à donner l'usage de ces Tables, en suivant le procédé de l'abbé Marie, toutes les fois qu'il pourra se concilier avec leur disposition.

USAGE DES TABLES.

Avant d'entrer en matière, il est bon de rappeler que le logarithme d'un nombre entier quelconque, rendu 10,100,1000 fois plus grand que ce nombre, ne varie que dans sa caractéristique, c'est-à-dire que le logarithme de 3 étant 0,477121, celui de 30 sera 1,477121, celui

de 300 sera 2,477121, celui de 3000 sera 3,477121, etc.

1 étant le logarithme de 10; 2 celui de 100; 3 celui de 1000, pour rendre donc un nombre 10, 100, 1000 fois plus grand, il ne s'agit que d'ajouter 1 ou 2 ou 3 unités à la caractéristique de son logarithme.

LOGARITHMES DES NOMBRES.

Dans la recherche des logarithmes des nombres il se présente deux questions générales.

Étant donné un nombre, trouver son logarithme, et réciproquement étant donné un logarithme, trouver le nombre auquel il appartient.

Lorsque le nombre n'excede pas les limites des tables, son logarithme est toujours à la droite de ce nombre; ainsi, le logarithme de 3240 est 3,510545; celui de 32400 serait 4,510545; d'après ce que nous avons dit plus haut.

Mais si l'on demande le logarithme de 42758, qui excède les limites de ces Tables, il faut séparer par une virgule, sur la droite de ce nombre, le chiffre 8, et le nombre devient alors 4275,8; ce nombre est plus grand que 4275 et plus petit que 4276, son logarithme tombera entre ceux de ces deux nombres.

Cela posé, cherchez le logarithme de 4275, que vous trouverez être 3,630936. Pour avoir la quantité qu'il faut lui ajouter afin qu'il soit celui de 4275,8, voici comment il faut faire.

Prenez la différence 101 qui existe entre les logarithmes de 4275 et 4276, et dites: si pour une unité de différence entre deux nombres

on a 101 de différence entre leurs logarithmes, quelle sera celle pour 0,8, ou

$$1 : 101 :: 0,8 : x = 80,8,$$

quantité qu'il faudra ajouter au log. de 4275 pour avoir celui de 4275,8, mais comme ce nombre a été rendu dix fois plus petit, il faut augmenter d'une unité la caractéristique de son logarithme, et vous aurez 4,631017 pour log. de 42758.

Soit encore proposé de trouver le logarithme de 637482. Séparez deux chiffres sur la droite par une virgule, afin que la partie restante se trouve dans les Tables, et vous aurez à chercher le log. de 6374,82, il est 3,804412 pour 6374 seulement; pour avoir la quantité qu'il faut ajouter à ce log., afin d'avoir celui de 6374,82, multipliez 0,82 par 68, différence entre les logarithmes de 6374 et 6375, et vous aurez la quantité 55,76, qui, ajoutée au logarithme de 6374, donnera 5,804468, après toutefois avoir augmenté de deux unités sa caractéristique, pour avoir le log. de 637482, nombre cent fois plus grand que 6374,82.

Pour avoir le logarithme du carré ou du cube d'un nombre, il faut doubler ou tripler le log. de ce nombre; exemple :

On demande le logarithme du carré de 25 : multipliez par 2 le log. de 25, qui est 1,397940, et il viendra 2,795880 pour logarithme de 625, carré de 25; réciproquement pour avoir la racine carrée ou cubique d'un nombre, prenez la moitié ou le tiers de son logarithme, le reste sera le log. de la racine.

Quelle est la racine carrée de 7056? le log.

de ce nombre est 3,848559, dont la moitié 1,924279 répond à 84, racine quarrée cherchée.

Ce principe est une conséquence de la propriété qu'ont les logarithmes de changer la multiplication ou la division d'un nombre par un autre en une addition ou soustraction de leurs logarithmes.

Passons aux logarithmes des nombres entiers, joints à des fractions ordinaires ou décimales.

On demande le logarithme de $28 \frac{2}{3}$; réduisez le tout en fraction, ce qui donne $\frac{142}{3}$, prenez le logarit. du numérateur, que vous trouverez être 2,152288, retranchez-en 0,698970, log. du dénominateur 3, la différence 1,453318 sera le log. cherché. Donc, le logarithme d'une fraction est égal au log. du numérateur moins celui du dénominateur; mais comme le log. du numérateur est toujours plus petit que celui du dénominateur, dans une fraction proprement dite, il faut supposer la caractéristique du log. du numérateur plus forte de 10 unités, sans cela le reste de la soustraction serait négatif, quant à la caractéristique seulement, ou il serait tout négatif en retranchant le numérateur du dénominateur. D'après ce principe le log. de $\frac{2}{3}$ sera 10,301030 — 0,477121 = 9,823909. Dans le cas de la caractéristique négative, il serait $\bar{1},823909$; mais, si l'on veut que le log. de $\frac{2}{3}$ soit négatif dans tous ses chiffres, on aura — 0,176091. Le log. d'une fraction plus petite que l'unité pouvant être exprimé de trois manières différentes; par exemple, logarithme $\frac{2}{3}$ = 9,823909 — $\bar{1},823909$ = — 0,176091; le logarit. de $\frac{1}{16}$ serait 8,795880, ou $\bar{2},795880$, ou — 1,204120.

Le cas de la caractéristique seule négative nous paraît préférable aux deux autres, parce que dans le premier cas, il faut, après l'emploi d'un log. de cette nature, se rappeler que la caractéristique est trop grande de 10 unités, et dans le deuxième cas, lorsqu'on veut ajouter un logarithme tout négatif, il faut le soustraire, et que pour le soustraire il faut l'ajouter. La caractéristique seule négative a la propriété d'indiquer le rang qu'occupe après la virgule le premier chiffre significatif du nombre correspondant ; ainsi le logar. de $\frac{1}{10}$ ou de 0,0625 qu'on a trouvé ci-dessus de 2,795880, a pour caractéristique $\bar{2}$, parce que le premier chiffre significatif 6 occupe le second rang après la virgule ; à l'égard des décimales 795880 du log. ce sont les mêmes que celles de 625. On reconnaîtra la vérité de ce principe en se rappelant que

le logarithme de 1000 = 3

celui de 100 = 2

10 = 1

1 = 0

0,1 = — 1

0,01 = — 2

0,001 = — 3 etc., etc.

Quel sera le logarithme de 44,76 ? en ôtant la virgule, le nombre devient 4476, qui est cent fois plus grand. De la caractéristique du log. de ce dernier nombre, qui est 3,650890, retranchez deux unités et vous aurez le log. de 44,76. Donc, lorsqu'il s'agit d'avoir le log. d'un entier, joint à une fraction décimale, on fait abstraction de la virgule, mais on a soin de diminuer la caractéristique du log. du nombre

ainsi préparé, d'autant d'unités qu'il y a de chiffres à la droite de la virgule.

De cette manière, le log. de 0,5249 sera le même que celui de 5249 avec une caractéristique plus petite de quatre unités; mais comme le log. de 5249 est 3,720077, vous aurez 1,720077 pour log. de 0,5249.

Maintenant étant donné un logarithme, trouver le nombre qui lui répond.

Lorsque le logarithme est tout entier dans les Tables, nulle difficulté pour trouver le nombre qui lui appartient, il est toujours à la gauche de ce logarithme.

Nous ne donnerons donc d'exemples que pour les logarithmes qui ne se trouvent pas tout entiers dans les Tables.

Soit proposé de trouver à quel nombre appartient le log. 3,976875, ce log. tombe entre ceux de 9481 et de 9482; le nombre qui lui correspond dans les Tables sera donc un entier et une fraction; pour avoir cette fraction, il faut ici faire la proportion inverse, et dire: si 46 différence entre les log. de 9481 et 9482 répond à 1, différence entre ces deux nombres, à quel nombre répondra 21, qui est la différence entre le log. proposé et celui de 9481, ou

$$46 : 1 :: 21 : x = \frac{21}{46} = 0,456.$$

Donc, le nombre cherché sera 9481,456.

A quel nombre répond le logarit. 5,730102? ce log., cherché avec la caractéristique 3, tombe entre ceux de 5371 et 5372; pour avoir la fraction qui doit accompagner le nombre demandé, dites :

$$81 : 1 :: 41 : x = \frac{41}{81} = 0,506.$$

Donc, le nombre sera 5371,51; mais comme vous avez diminué la caractéristique de deux unités, il faut rendre ce nombre cent fois plus grand, et l'on a 537151.

Soit encore proposé de trouver le nombre correspondant au log. 0,129082 : cherchez ce log. avec une caractéristique plus forte de trois unités, et vous remarquerez qu'il tombe entre ceux de 1346 et 1347; le nombre cherché sera alors 1346, plus une fraction, que vous obtiendrez par la proportion suivante :

$$323 : 1 :: 37 : x = \frac{37}{323} = 0,11.$$

Le nombre 1346,11 appartiendra bien au logarithme 3,129082. Pour avoir celui qui répond à 0,129082, il faut reculer la virgule de trois rangs vers la gauche, parce que vous avez ajouté trois unités à la caractéristique de ce logarithme, ce qui donnera enfin 1,34611 pour le nombre cherché.

On voit par ces exemples que lorsque la caractéristique d'un logarithme est plus forte ou plus petite que celle des Tables, il faut la diminuer ou l'augmenter d'une ou plusieurs unités.

Passons à la recherche des logarithmes des sinus, cosinus, tangentes et cotangentes de la division sexagésimale.

USAGE DES TABLES SEXAGÉSIMALES.

Ces Tables comprennent les logarithmes des sinus, cosinus, tangentes et cotangentes artificiels ou logarithmiques; ce sont les logarithmes des sinus, cosinus, etc. naturels, calculés sur

celui du rayon divisé en 1000000000 de parties, dont la caractéristique est 10.

Les tangentes au-dessus de 45° étant plus grandes que le rayon, on a supprimé la dixaine qui est à leur caractéristique.

Dans les 3 premiers degrés de ces Tables, on n'a pas mis les différences des logarithmes, à cause de leur trop grande inégalité, mais on y a suppléé par des logarit. dont les quatre premiers chiffres 4,685 sont placés au haut de la page, et les trois derniers vis-à-vis chaque minute correspondante; ceux de la gauche sont pour les sinus et ceux de la droite pour les tangentes: ces logarithmes ne sont autre chose que la différence entre le logarithme du sinus ou de la tangente dont il s'agit et le logarithme du nombre de secondes de cet angle. Par exemple, le logarithme 4,685531 répond au logarithme de sinus de $1^\circ 25'$; c'est la différence entre 8,393101 et 3,707570 qui est le logarit. de 5190 secondes = $1^\circ 25'$.

Faisons une application: on demande le log. de $1^\circ 26' 30''$ ou de 5190", c'est 3,715167; ajoutez à ce log. 4,685529, qui répondrait à $1^\circ 26' 30''$, et vous aurez 8,400696, logarithme cherché. En opérant ainsi, le log. de $2^\circ 15' 35''$ serait à-peu-près 8,595820: on procède de même pour les tangentes.

Réciproquement étant donné 8,583615 pour le logarithme de la tangente d'un angle inconnu; il faut oter 4,685788 (log. correspondant au logarit. tang. le plus approchant de 8,583615) du log. proposé 8,583615, le reste 3,897827. cherché dans les tables des log. des

nombres, répond à $7904'' = 2^{\circ} 11' 44''$, et c'est à très-peu près l'angle demandé.

Autre application : soit proposé de trouver le log. tangente d'un angle de 87 à 90 degrés, de $89^{\circ} 5' 54''$, par exemple, il faut ajouter $6,488651$ complément arithmétique du log. de $0^{\circ} 54' 6''$, pris dans les tables des log. des nombres, avec $5,314390$ complément arithmétique du logarit. $4,685610$, qui répond à la tangente de $0^{\circ} 54' 6''$, ce qui donne $1,803041$ pour logarit. tangente de $89^{\circ} 5' 54''$.

Réciproquement, étant donné un logarit. tangente d'un angle compris entre 87° et 90° tel que $1,390508$, trouver à quel angle il répond : ajoutez $5,314186$ (complément arith. du log. $4,685814$ qui répond au log. tangente donné), au complément arithmétique du log. proposé ($8,609492$). La table des log. des nombres vous apprendra que la somme $3,923678$ des deux compléments est le log. de $2^{\circ} 19' 48''$, à très-peu près ; ainsi l'angle cherché est $87^{\circ} 40' 12''$, environ.

Lorsqu'un angle est au-dessous de 45° , son log. sinus est à côté du nombre de ses minutes, qui se comptent en descendant ; ainsi le log. du sinus de $32^{\circ} 24'$ est $9,729024$; celui de $32^{\circ} 26'$ est $9,729422$; les tangentes, les cotangentes et les cosinus se trouvent de même chacun dans sa colonne.

Lorsque l'angle est entre 45° et 90° , le log. de son sinus est dans la dernière colonne ; il faut alors compter les minutes en montant. Ainsi, pour trouver le log. sinus de $57^{\circ} 34'$, complément de $32^{\circ} 26'$, cherchez à la page où

vous avez pris celui de ce dernier angle et vous verrez au bas sur la droite le titre sinus 57 ; montez le long de cette colonne et vous trouverez $57^{\circ} 34'$, dont le logarithme sinus est 9,926351.

Le logarithme sinus ou tangente d'un angle obtus est le même que celui de son supplément ; il n'y a donc aucun angle estimé seulement en degrés et minutes dont on ne trouve aussitôt dans les tables le sinus , cosinus , etc. ; mais lorsqu'il y a des secondes, il faut pour trouver la quantité à ajouter au log. du nombre de degrés et minutes, faire la proportion suivante :

60" différence des deux angles entre lesquels tombe le log. donné est à la différence de leurs log. comme la différence entre le log. donné et celui qui est plus petit que lui est à un quatrième terme qui est la quantité à ajouter ; exemple :

On demande le log. du sinus de $23^{\circ} 42' 28''$; celui de $23^{\circ} 42'$ est 9,604170 , pour avoir la quantité correspondante à 28" dites :

60", différence des deux angles entre lesquels tombe l'angle donné, est à 287, différence des log. sinus de ces deux angles, comme 28", diff. entre l'angle donné et celui qui est plus petit que lui, est à un quatrième terme qu'il faut ajouter au log. trouvé pour les deg. et minutes, c'est-à-dire,

$$60'' : 287 :: 28'' : x = \frac{8036}{60} = 134$$

le log. cherché sera donc 9,604304.

Cette méthode est commune à toutes les tables ; nous allons en donner une qui est particulière à la disposition de celles-ci. Appliquons-la à notre exemple : elle consiste à multiplier

4,79 (*) que l'on voit dans la petite colonne qui vient immédiatement après celle des sinus,

(*) Pour expliquer le procédé de calcul des quantités renfermées dans les petites colonnes, nous nous servirons d'une remarque qu'a bien voulu nous communiquer M. Haros, géometre très-habile.

Dans l'édition de 1768 des Tables de l'abbé Marie, il est dit, page 41, que la fraction que l'on donne de trois en trois log. sinus ou log. tang. etc., tient lieu de la partie proportionnelle qu'il faut ajouter au log. pour chaque seconde, en ne prenant ce log. qu'avec cinq décimales seulement.

Il est donc évident que cette partie proportionnelle pour des log. à six décimales doit être dix fois plus grande, et c'est ce qu'on a fait dans l'édition de ces Tables. Cette partie proportionnelle pour une seconde est toujours égale à la soixantième partie de la différence entre deux log. voisins; ainsi, pour avoir la partie proportionnelle moyenne à cinq log. de suite, il faut d'abord diviser par 5 la différence des log. pris de 5 en 5, et diviser ensuite le quotient par 60, ou, ce qui revient au même, diviser chaque différence de 5 en 5 logarithmes par 5 fois 60 ou 300, ce qui se fait facilement en séparant par un point deux chiffres et en prenant le tiers; tel est le procédé qu'on a employé pour déterminer la partie proportionnelle relative à une seconde de variation.

Les Tables de l'abbé Marie ont l'inconvénient de ne donner la partie proportionnelle relative à 1" de variation que pour les log. sinus ou tangentes à cinq décimales, tandis que ces mêmes log. ont six décimales, ce qui est une source d'erreurs pour les personnes qui veulent en faire usage. Nos Tables n'auront point cet inconvénient.

Application.

Soit proposé de trouver le log. sinus de $26^{\circ} 25' 37''$: le log. de $26^{\circ} 25'$ est 9,648258, et la partie proportionnelle relative à une seconde de variation est 4,24; donc en multipliant 4,24 par $37''$, on aura 156,88 ou 157 à ajouter à 9,648258, ce qui donnera 9,648415 pour le log. sinus de $26^{\circ} 25' 37''$.

Par les Tables de l'abbé Marie, la partie proportionnelle est 0,424, parce qu'elle n'appartient qu'à des log. à cinq décimales.

par $28''$ et l'on a pour produit 13412; séparez deux chiffres sur la droite et ajoutant 199,604170, vous aurez 9,604304, comme dessus.

Autre exemple : on demande quel est le sinus de $135^{\circ} 52' 39''$; réponse, le même que celui de $44^{\circ} 7' 21''$, son supplément; or, le premier est pour les degrés et les minutes égal à 9,842685 : la fraction 2,17 qui tient lieu de partie proportionnelle multipliée par $21''$ donne 45,57, ou 46, ajoutez cette quantité au premier trouvé, il vient 9,842731 pour le logarithme cherché.

On trouve de même le log. de la tangente de tout angle compris entre 3° et 90° , en multipliant la partie proportionnelle commune des tangentes et cotangentes par le nombre de secondes. Ainsi, le log. tangente de $44^{\circ} 7' 21''$ pour les degrés et minutes 9,986607; multiplié par $21''$, le produit 88,41 ajouté à ce premier donnera 9,986695.

Pour trouver maintenant les degrés, minutes et secondes d'un angle dont on connaît le sinus, il faut faire l'inverse de la deuxième méthode.

Exemple : soit le log. 9,822917 que l'on suppose d'ailleurs être celui d'un sinus; cherchez le sinus prochainement plus petit dans les Tables, il répond à $41^{\circ} 41'$, ajoutez deux zéros à la différence 87 de ces deux log. et divisez 87 par la partie proportionnelle correspondante 236, le quotient 36,8 marque les secondes des dixièmes qu'il faut ajouter à $41^{\circ} 41'$, ensorte qu'on a $41^{\circ} 41' 36'',8$.

Cherchons encore à quel angle répond $0,573776$ log. tangente : il faut dans ce cas lire de bas en haut, et vous trouverez qu'il répond à $75^{\circ} 3'$; pour avoir les secondes ajoutez deux zéros à la différence 310 des deux log. $0,573776$ et $0,573466$ et divisez par la partie proportionnelle correspondante 844 , le quotient $36'',7$ sera le nombre de secondes et dixièmes à ajouter à $75^{\circ} 3'$.

Le nombre de degrés, minutes et secondes de $9,968398$, cherché de cette manière, serait log. sinus de $68^{\circ} 24' 22'', 6$.

USAGE DES TABLES CENTÉSIMALES.

Après ce qui a été dit sur l'usage des tables sexagésimales, il reste peu de chose à dire sur les tables centésimales.

Ces Tables donnent de cent-millième en cent-millième du quart de cercle ($3'', 24$) les log. sinus, cosinus, tangentes et cotangentes, depuis $0,00000$ jusqu'à $0,03000$, et de dix-millième en dix-millième ($32'', 4$) depuis $0,0300$ jusqu'à $0,5000$, pour les nouveaux degrés du quart de cercle.

Pour trouver le log. sinus et tangente des petits arcs qui ne sont point dans ces Tables, le procédé est le même que celui que nous avons employé à la recherche des secondes et parties décimales de secondes; dans la division sexagésimale : exemple, quel est le log. sinus de $0,023578$?

Cherchez d'abord celui de $0,02357$, qui est $8,568380$, pour avoir ce qu'il faut ajouter à ce log. sinus, afin d'avoir celui de $0,023578$, dites :

$1 : 184 :: 0,8 : x = 184 \times 0,8 = 147,2$, quantité qui ajoutée au premier log. donne 8,568527 pour le log. sinus de 0,023578, en procédant de même, le log. sinus de 0,001049 serait 7,216893; cet arc répond à $0^{\circ} 5' 39'', 876$.

Le log. tangente de 0,025585 serait 8,604339, répondant à log. tangente de $2^{\circ} 18' 9'', 54$.

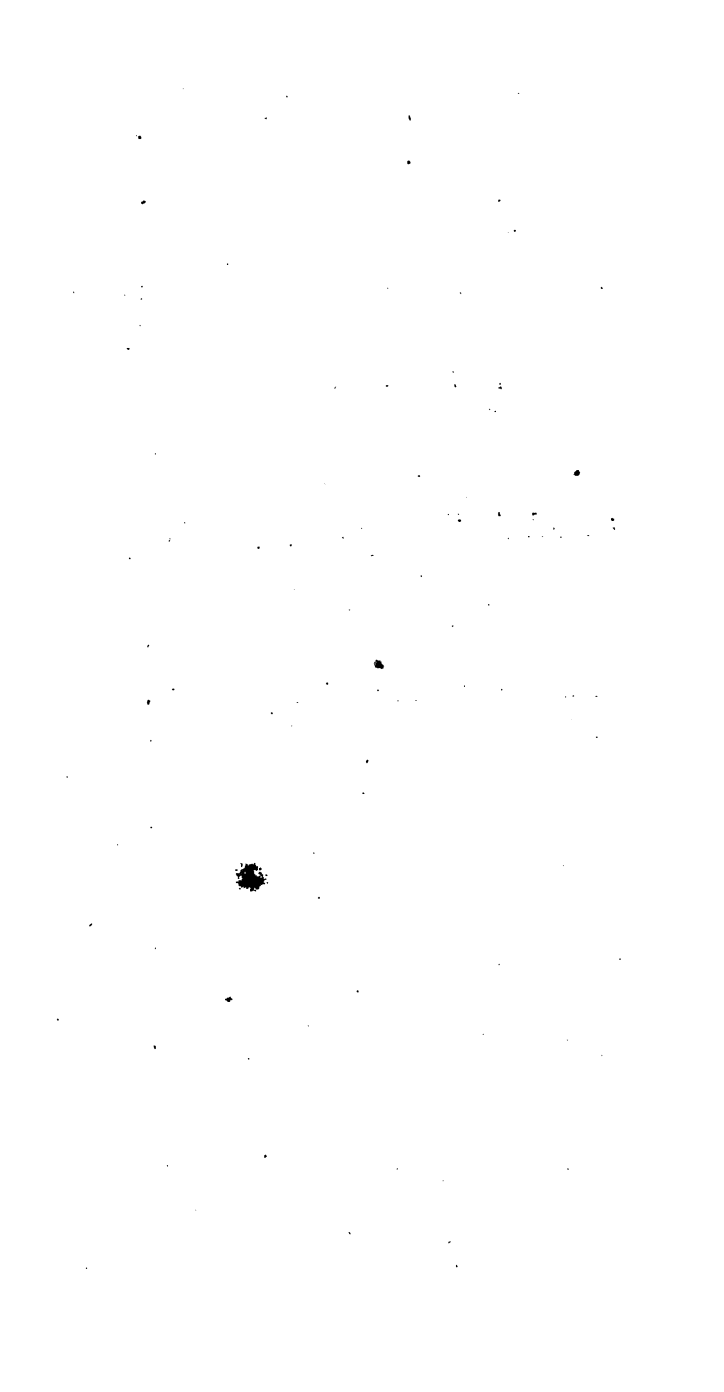
Réciproquement, cherchons à six décimales l'arc appartenant au log. d'un sinus qui n'est pas dans les Tables : soit par exemple 8,660398, que l'on sait être un log. sinus, ce logarithme cherché dans la Table approche de celui de 0,02913; pour avoir la sixième décimale il faut faire l'opération inverse, et dire; $149 : 1 :: 89 : x = \frac{89}{149} = 0,59$, donc la sixième décimale est 6, et vous aurez pour l'arc cherché 0,029136.

Nous ne donnerons point d'exemples pour la recherche des grands arcs, qui n'offre aucune difficulté.

Ne nous étant proposé que d'enseigner ici l'usage de ces Tables, nous pensons que ce que nous en avons dit suffira pour mettre promptement le calculateur à même de s'en servir.

Ch. PLAUZOLES.

TABLES
DE
LOGARITHMES
DES NOMBRES
DEPUIS 1 JUSQU'A 21750.



N.	O. O' O" Logarith.	Dif.	N.	O. O' 50" Logarith.	Dif.	N.	O. I' 40" Logarith.	Dif.
0	Inf. nég.		50	1.698970	8600	100	2.000000	4321
1	0.000000		51	1.707570	8433	101	2.004321	4279
2	0.301030	301030	52	1.716003	8273	102	2.008600	4237
3	0.477121	176091	53	1.724276	8118	103	2.012837	4196
4	0.602060	124939	54	1.732394	7969	104	2.017033	4156
5	0.698970	96910	55	1.740363	7825	105	2.021189	4117
6	0.778151	79181	56	1.748188	7687	106	2.025306	4078
7	0.845098	66947	57	1.755875	7553	107	2.029384	4040
8	0.903090	57992	58	1.763428	7424	108	2.033424	4002
9	0.954243	51153	59	1.770852	7299	109	2.037426	3967
10	1.000000	45757	60	1.778151	7179	110	2.041393	3930
11	1.041393	41393	61	1.785330	7062	111	2.045323	3895
12	1.079181	37788	62	1.792392	6949	112	2.049218	3860
13	1.113943	34762	63	1.799341	6839	113	2.053078	3827
14	1.146128	32185	64	1.806180	6733	114	2.056905	3793
15	1.176091	29963	65	1.812913	6631	115	2.060698	3760
16	1.204120	28029	66	1.819544	6531	116	2.064458	3728
17	1.230449	26329	67	1.826075	6434	117	2.068186	3696
18	1.255273	24824	68	1.832509	6340	118	2.071882	3665
19	1.278754	23481	69	1.838849	6249	119	2.075547	3634
20	1.301030	22276	70	1.845098	6160	120	2.079181	3604
21	1.322219	21189	71	1.851258	6074	121	2.082785	3575
22	1.342423	20204	72	1.857332	5991	122	2.086360	3545
23	1.361728	19305	73	1.863323	5909	123	2.089905	3517
24	1.380211	18483	74	1.869232	5829	124	2.093422	3488
25	1.397940	17729	75	1.875061	5753	125	2.096910	3461
26	1.414973	17033	76	1.880814	5677	126	2.100371	3433
27	1.431364	16391	77	1.886491	5604	127	2.103804	3406
28	1.447158	15794	78	1.892095	5532	128	2.107210	3380
29	1.462398	15240	79	1.897627	5463	129	2.110590	3353
30	1.477121	14723	80	1.903090	5395	130	2.113943	3328
31	1.491362	14241	81	1.908485	5329	131	2.117271	3303
32	1.505150	13788	82	1.913814	5264	132	2.120574	3278
33	1.518514	13364	83	1.919078	5201	133	2.123852	3253
34	1.531479	12965	84	1.924279	5140	134	2.127105	3229
35	1.544068	12589	85	1.929419	5079	135	2.130334	3205
36	1.556303	12235	86	1.934498	5021	136	2.133539	3182
37	1.568202	11899	87	1.939519	4964	137	2.136721	3158
38	1.579784	11582	88	1.944483	4907	138	2.139879	3136
39	1.591065	11281	89	1.949390	4853	139	2.143015	3113
40	1.602060	10995	90	1.954243	4798	140	2.146128	3091
41	1.612784	10724	91	1.959041	4747	141	2.149219	3069
42	1.623249	10465	92	1.963788	4695	142	2.152288	3048
43	1.633468	10219	93	1.968483	4645	143	2.155336	3026
44	1.643453	9985	94	1.973128	4596	144	2.158362	3006
45	1.653213	9760	95	1.977724	4547	145	2.161368	2985
46	1.662758	9545	96	1.982271	4501	146	2.164353	2964
47	1.672098	9340	97	1.986772	4454	147	2.167317	2945
48	1.681241	9143	98	1.991226	4409	148	2.170262	2924
49	1.690196	8955	99	1.995635	4365	149	2.173186	2905
50	1.698970	8774	100	2.000000		150	2.176091	

N.	0. 2' 30"	Dif.	N.	0. 3' 20"	Dif.	N.	0. 4' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
150	2.176091	2886	200	2.301030	2166	250	2.397940	1734
151	2.178977	2867	201	2.303196	2155	251	2.399674	1727
152	2.181844	2847	202	2.305351	2145	252	2.401401	1720
153	2.184691	2830	203	2.307496	2134	253	2.403121	1713
154	2.187521	2811	204	2.309630	2124	254	2.404834	1706
155	2.190332	2793	205	2.311754	2113	255	2.406540	1700
156	2.193125	2775	206	2.313867	2103	256	2.408240	1693
157	2.195900	2757	207	2.315970	2093	257	2.409933	1687
158	2.198657	2740	208	2.318063	2083	258	2.411620	1680
159	2.201397	2723	209	2.320146	2073	259	2.413300	1673
160	2.204120	2706	210	2.322219	2063	260	2.414973	1668
161	2.206826	2689	211	2.324282	2054	261	2.416641	1660
162	2.209515	2673	212	2.326336	2044	262	2.418301	1655
163	2.212188	2656	213	2.328380	2034	263	2.419956	1648
164	2.214844	2640	214	2.330414	2024	264	2.421604	1642
165	2.217484	2624	215	2.332438	2016	265	2.423246	1636
166	2.220108	2608	216	2.334454	2006	266	2.424882	1629
167	2.222716	2593	217	2.336460	1996	267	2.426511	1624
168	2.225309	2578	218	2.338456	1988	268	2.428135	1617
169	2.227887	2562	219	2.340444	1979	269	2.429752	1612
170	2.230449	2547	220	2.342423	1969	270	2.431364	1605
171	2.232996	2532	221	2.344392	1961	271	2.432969	1600
172	2.235528	2518	222	2.346353	1952	272	2.434569	1594
173	2.238046	2503	223	2.348305	1943	273	2.436163	1588
174	2.240549	2489	224	2.350248	1935	274	2.437751	1582
175	2.243038	2475	225	2.352183	1925	275	2.439333	1576
176	2.245513	2460	226	2.354108	1918	276	2.440909	1571
177	2.247973	2447	227	2.356026	1909	277	2.442480	1565
178	2.250420	2433	228	2.357935	1900	278	2.444045	1559
179	2.252853	2420	229	2.359835	1893	279	2.445604	1554
180	2.255273	2406	230	2.361728	1884	280	2.447158	1548
181	2.257679	2392	231	2.363612	1876	281	2.448706	1543
182	2.260071	2380	232	2.365488	1868	282	2.450249	1537
183	2.262451	2367	233	2.367356	1860	283	2.451786	1532
184	2.264818	2354	234	2.369216	1852	284	2.453318	1527
185	2.267172	2341	235	2.371068	1844	285	2.454845	1521
186	2.269513	2329	236	2.372912	1836	286	2.456366	1516
187	2.271842	2316	237	2.374748	1829	287	2.457882	1510
188	2.274158	2304	238	2.376577	1821	288	2.459392	1508
189	2.276462	2292	239	2.378398	1813	289	2.460898	1500
190	2.278754	2279	240	2.380211	1806	290	2.462398	1495
191	2.281033	2268	241	2.382017	1798	291	2.463893	1490
192	2.283301	2256	242	2.383815	1791	292	2.465383	1485
193	2.285557	2245	243	2.385606	1784	293	2.466868	1479
194	2.287802	2233	244	2.387390	1776	294	2.468347	1475
195	2.290035	2221	245	2.389166	1769	295	2.469822	1470
196	2.292256	2210	246	2.390935	1762	296	2.471292	1464
197	2.294466	2199	247	2.392697	1755	297	2.472756	1460
198	2.296665	2188	248	2.394452	1747	298	2.474216	1455
199	2.298853	2177	249	2.396199	1741	299	2.475671	1450
200	2.301030		250	2.397940		300	2.477121	

N.	o. 5' 0"	Dif.	N.	o. 5' 50"	Dif.	N.	o. 6' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
300	2.477121		350	2.544068		400	2.602060	
301	2.478566	1445	351	2.545307	1239	401	2.603144	1084
302	2.480007	1441	352	2.546543	1236	402	2.604226	1082
303	2.481443	1436	353	2.547775	1232	403	2.605305	1079
304	2.482874	1431	354	2.549003	1228	404	2.606381	1076
305	2.484300	1426	355	2.550228	1225	405	2.607455	1074
306	2.485721	1421	356	2.551450	1222	406	2.608526	1071
307	2.487138	1417	357	2.552668	1218	407	2.609594	1068
308	2.488551	1413	358	2.553883	1215	408	2.610660	1066
309	2.489958	1407	359	2.555094	1211	409	2.611723	1063
		1404			1209			1061
310	2.491362	1398	360	2.556303	1204	410	2.612784	1058
311	2.492760	1395	361	2.557507	1202	411	2.613842	1055
312	2.494155	1389	362	2.558709	1198	412	2.614897	1053
313	2.495544	1386	363	2.559907	1194	413	2.615950	1050
314	2.496930	1381	364	2.561101	1192	414	2.617000	1048
315	2.498311	1376	365	2.562293	1188	415	2.618048	1045
316	2.499687	1372	366	2.563481	1185	416	2.619093	1043
317	2.501059	1368	367	2.564666	1182	417	2.620136	1040
318	2.502427	1364	368	2.565848	1178	418	2.621176	1038
319	2.503791	1359	369	2.567026	1176	419	2.622214	1035
320	2.505150	1355	370	2.568202	1172	420	2.623249	1033
321	2.506505	1351	371	2.569374	1169	421	2.624282	1030
322	2.507856	1347	372	2.570543	1166	422	2.625312	1028
323	2.509203	1342	373	2.571709	1163	423	2.626340	1026
324	2.510545	1338	374	2.572872	1159	424	2.627366	1023
325	2.511883	1335	375	2.574031	1157	425	2.628389	1021
326	2.513218	1330	376	2.575188	1153	426	2.629410	1018
327	2.514548	1326	377	2.576341	1151	427	2.630428	1016
328	2.515874	1322	378	2.577492	1147	428	2.631444	1013
329	2.517196	1318	379	2.578639	1145	429	2.632457	1011
330	2.518514	1314	380	2.579784	1141	430	2.633468	1009
331	2.519828	1310	381	2.580925	1138	431	2.634477	1007
332	2.521138	1306	382	2.582063	1136	432	2.635484	1004
333	2.522444	1302	383	2.583199	1132	433	2.636488	1002
334	2.523746	1299	384	2.584331	1130	434	2.637490	999
335	2.525045	1294	385	2.585461	1126	435	2.638489	997
336	2.526339	1291	386	2.586587	1124	436	2.639486	995
337	2.527630	1287	387	2.587711	1121	437	2.640481	993
338	2.528917	1283	388	2.588833	1118	438	2.641474	991
339	2.530200	1279	389	2.589950	1115	439	2.642465	988
340	2.531479	1275	390	2.591065	1112	440	2.643453	986
341	2.532754	1272	391	2.592177	1109	441	2.644439	983
342	2.534026	1268	392	2.593286	1107	442	2.645422	982
343	2.535294	1264	393	2.594393	1103	443	2.646404	979
344	2.536558	1261	394	2.595496	1101	444	2.647383	977
345	2.537819	1257	395	2.596597	1098	445	2.648360	975
346	2.539076	1253	396	2.597695	1096	446	2.649335	973
347	2.540329	1250	397	2.598791	1092	447	2.650308	970
348	2.541579	1246	398	2.599883	1090	448	2.651278	968
349	2.542825	1243	399	2.600973	1087	449	2.652246	967
350	2.544068		400	2.602060		450	2.653213	

N.	0. 7' 30" Logarith.	Dif.	N.	0. 8' 20" Logarith.	Dif.	N.	0. 9' 10" Logarith.	Dif.
450	2.653213		500	2.698970		550	2.740363	
451	2.654177	964	501	2.699838	868	551	2.741152	789
452	2.655138	961	502	2.700704	866	552	2.741939	787
453	2.656098	960	503	2.701568	864	553	2.742725	786
454	2.657056	958	504	2.702431	863	554	2.743510	785
		955			860			783
455	2.658011	954	505	2.703291	860	555	2.744293	782
456	2.658965	951	506	2.704151	857	556	2.745075	780
457	2.659916	949	507	2.705008	856	557	2.745855	779
458	2.660865	948	508	2.705864	854	558	2.746634	778
459	2.661813	945	509	2.706718	852	559	2.747412	776
		943			851			775
460	2.662758	941	510	2.707570	849	560	2.748188	773
461	2.663701	939	511	2.708421	847	561	2.748963	772
462	2.664642	937	512	2.709270	846	562	2.749736	771
463	2.665581	935	513	2.710117	844	563	2.750508	769
464	2.666518	933	514	2.710963	841	564	2.751279	768
		931			839			767
465	2.667453	929	515	2.711807	837	565	2.752048	766
466	2.668386	927	516	2.712650	836	566	2.752816	765
467	2.669317	925	517	2.713491	833	567	2.753583	764
468	2.670246	923	518	2.714330	832	568	2.754348	763
469	2.671173	921	519	2.715167	830	569	2.755112	761
		919			828			760
470	2.672098	917	520	2.716003	827	570	2.755875	759
471	2.673021	916	521	2.716838	825	571	2.756636	757
472	2.673942	913	522	2.717671	823	572	2.757396	756
473	2.674861	911	523	2.718502	822	573	2.758155	755
474	2.675778	910	524	2.719331	820	574	2.758912	754
		908			819			753
475	2.676694	905	525	2.720159	817	575	2.759668	752
476	2.677607	904	526	2.720986	815	576	2.760422	751
477	2.678518	902	527	2.721811	814	577	2.761176	749
478	2.679428	900	528	2.722634	813	578	2.761928	748
479	2.680336	898	529	2.723456	811	579	2.762679	747
		897			809			746
480	2.681241	895	530	2.724276	808	580	2.763428	745
481	2.682145	893	531	2.725095	807	581	2.764176	744
482	2.683047	891	532	2.725912	805	582	2.764923	743
483	2.683947	889	533	2.726727	803	583	2.765669	742
484	2.684845	887	534	2.727541	802	584	2.766413	741
		885			801			740
485	2.685742	883	535	2.728354	800	585	2.767156	739
486	2.686636	881	536	2.729165	799	586	2.767898	738
487	2.687529	879	537	2.729974	798	587	2.768638	737
488	2.688420	877	538	2.730782	796	588	2.769377	736
489	2.689309	875	539	2.731589	795	589	2.770115	735
		873			794			734
490	2.690196	871	540	2.732394	793	590	2.770852	733
491	2.691081	869	541	2.733197	792	591	2.771587	732
492	2.691965	867	542	2.733999	791	592	2.772322	731
493	2.692847	865	543	2.734800	790	593	2.773055	730
494	2.693727	863	544	2.735599	789	594	2.773786	729
		861			788			728
495	2.694605	859	545	2.736397	787	595	2.774517	727
496	2.695482	857	546	2.737193	786	596	2.775246	726
497	2.696356	855	547	2.737987	785	597	2.775974	725
498	2.697229	853	548	2.738781	784	598	2.776701	724
499	2.698101	851	549	2.739572	783	599	2.777427	723
500	2.698970	849	550	2.740363	782	600	2.778151	722

N.	O. 10' 0"	Dif.	N.	O. 10' 50"	Dif.	N.	O. 11' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
600	2.778151		650	2.812913		700	2.845098	
601	2.778874	723	651	2.813581	668	701	2.845718	620
602	2.779596	722	652	2.814248	667	702	2.846333	619
603	2.780317	721	653	2.814913	665	703	2.846955	618
604	2.781037	720	654	2.815578	665	704	2.847573	618
605	2.781755	718	655	2.816241	663	705	2.848189	616
606	2.782473	718	656	2.816904	663	706	2.848805	616
607	2.783189	716	657	2.817565	661	707	2.849419	614
608	2.783904	715	658	2.818226	661	708	2.850035	614
609	2.784617	713	659	2.818885	659	709	2.850646	613
		713	660	2.819544	659	710	2.851258	612
610	2.785330	711	661	2.820201	657	711	2.851870	612
611	2.786041	710	662	2.820858	657	712	2.852480	610
612	2.786751	709	663	2.821514	656	713	2.853090	610
613	2.787460	708	664	2.822168	654	714	2.853698	608
614	2.788168	707	665	2.822822	654	715	2.854306	608
615	2.788875	706	666	2.823474	652	716	2.854913	607
616	2.789581	704	667	2.824126	652	717	2.855519	606
617	2.790285	703	668	2.824776	650	718	2.856124	605
618	2.790988	703	669	2.825426	650	719	2.856729	605
619	2.791691	701	670	2.826075	649	720	2.857332	605
620	2.792392	700	671	2.826723	648	721	2.857935	603
621	2.793092	698	672	2.827369	646	722	2.858537	602
622	2.793790	698	673	2.828015	646	723	2.859138	601
623	2.794488	697	674	2.828660	645	724	2.859739	601
624	2.795185	695	675	2.829304	644	725	2.860338	599
625	2.795880	694	676	2.829947	643	726	2.860937	599
626	2.796574	694	677	2.830589	642	727	2.861534	597
627	2.797268	692	678	2.831230	641	728	2.862131	597
628	2.797960	691	679	2.831870	640	729	2.862728	597
629	2.798651	690	680	2.832509	639	730	2.863323	595
630	2.799341	688	681	2.833147	638	731	2.863917	594
631	2.800029	688	682	2.833784	637	732	2.864511	594
632	2.800717	687	683	2.834421	637	733	2.865104	593
633	2.801404	685	684	2.835056	635	734	2.865696	592
634	2.802089	685	685	2.835691	635	735	2.866287	591
635	2.802774	683	686	2.836324	633	736	2.866878	591
636	2.803457	682	687	2.836957	633	737	2.867467	589
637	2.804139	682	688	2.837588	631	738	2.868056	589
638	2.804821	680	689	2.838219	631	739	2.868644	588
639	2.805501	679	690	2.838849	630	740	2.869232	588
640	2.806180	678	691	2.839478	629	741	2.869818	586
641	2.806858	677	692	2.840106	628	742	2.870404	586
642	2.807535	676	693	2.840733	627	743	2.870989	585
643	2.808211	675	694	2.841359	626	744	2.871573	584
644	2.808886	674	695	2.841985	626	745	2.872156	583
645	2.809560	673	696	2.842609	624	746	2.872739	583
646	2.810233	671	697	2.843233	624	747	2.873321	582
647	2.810904	671	698	2.843855	622	748	2.873902	581
648	2.811575	670	699	2.844477	622	749	2.874482	580
649	2.812245	668	700	2.845098	621	750	2.875061	579
650	2.812913							

N.	0. 12' 30" Logarith.	Dif.	N.	0. 13' 20" Logarith.	Dif.	N.	0. 14' 10" Logarith.	Dif.
750	2.875061	579	800	2.903090		850	2.929419	
751	2.875640	578	801	2.903633	543	851	2.929930	511
752	2.876218	577	802	2.904174	541	852	2.930440	510
753	2.876795	577	803	2.904716	542	853	2.930949	509
754	2.877371	576	804	2.905256	540	854	2.931458	509
		576			540			508
755	2.877947	575	805	2.905796	539	855	2.931966	508
756	2.878522	574	806	2.906335	539	856	2.932474	507
757	2.879096	573	807	2.906874	537	857	2.932981	506
758	2.879669	573	808	2.907411	538	858	2.933487	506
759	2.880242	572	809	2.907949	536	859	2.933993	505
760	2.880814	571	810	2.908485	536	860	2.934498	505
761	2.881385	570	811	2.909021	535	861	2.935003	504
762	2.881955	570	812	2.909556	535	862	2.935507	504
763	2.882525	568	813	2.910091	533	863	2.936011	503
764	2.883093	568	814	2.910624	534	864	2.936514	502
765	2.883661	568	815	2.911158	532	865	2.937016	502
766	2.884229	566	816	2.911690	532	866	2.937518	501
767	2.884795	566	817	2.912222	531	867	2.938019	501
768	2.885361	565	818	2.912753	531	868	2.938520	500
769	2.885926	565	819	2.913284	530	869	2.939020	499
770	2.886491	563	820	2.913814	529	870	2.939519	499
771	2.887054	563	821	2.914343	529	871	2.940018	498
772	2.887617	562	822	2.914872	528	872	2.940516	498
773	2.888179	562	823	2.915400	527	873	2.941014	497
774	2.888741	561	824	2.915927	527	874	2.941511	497
775	2.889302	560	825	2.916454	526	875	2.942008	496
776	2.889862	559	826	2.916980	526	876	2.942504	496
777	2.890421	559	827	2.917506	524	877	2.943000	495
778	2.890980	557	828	2.918030	525	878	2.943495	494
779	2.891537	558	829	2.918555	523	879	2.943989	494
780	2.892095	556	830	2.919078	523	880	2.944483	493
781	2.892651	556	831	2.919601	522	881	2.944976	493
782	2.893207	555	832	2.920123	522	882	2.945469	492
783	2.893762	554	833	2.920645	521	883	2.945961	491
784	2.894316	554	834	2.921166	520	884	2.946452	491
785	2.894870	553	835	2.921686	520	885	2.946943	491
786	2.895423	552	836	2.922206	519	886	2.947434	490
787	2.895975	551	837	2.922725	519	887	2.947924	489
788	2.896526	551	838	2.923244	518	888	2.948413	488
789	2.897077	550	839	2.923762	517	889	2.948902	488
790	2.897627	549	840	2.924279	517	890	2.949390	488
791	2.898176	549	841	2.924796	516	891	2.949878	487
792	2.898725	548	842	2.925312	516	892	2.950365	487
793	2.899273	548	843	2.925828	514	893	2.950851	486
794	2.899821	546	844	2.926342	515	894	2.951338	486
795	2.900367	546	845	2.926857	513	895	2.951823	485
796	2.900913	545	846	2.927370	513	896	2.952308	484
797	2.901458	545	847	2.927883	513	897	2.952792	484
798	2.902003	544	848	2.928396	512	898	2.953276	484
799	2.902547	543	849	2.928908	511	899	2.953760	483
800	2.903090		850	2.929419		900	2.954243	483

N.	α. 15' 0"	Dif.	N.	α. 15' 50"	Dif.	N.	α. 16' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
900	2.954243	482	950	2.977724	457	1000	3.000000	434
901	2.954725	482	951	2.978181	456	1001	3.000434	434
902	2.955207	481	952	2.978637	456	1002	3.000868	433
903	2.955688	480	953	2.979093	455	1003	3.001301	433
904	2.956168	481	954	2.979548	455	1004	3.001734	432
905	2.956649	479	955	2.980003	455	1005	3.002166	432
906	2.957128	479	956	2.980458	454	1006	3.002598	431
907	2.957607	479	957	2.980912	454	1007	3.003029	432
908	2.958086	478	958	2.981366	453	1008	3.003461	430
909	2.958564	477	959	2.981819	452	1009	3.003891	430
910	2.959041	477	960	2.982271	452	1010	3.004321	430
911	2.959518	477	961	2.982723	452	1011	3.004751	430
912	2.959995	476	962	2.983175	451	1012	3.005181	428
913	2.960471	475	963	2.983626	451	1013	3.005609	429
914	2.960946	475	964	2.984077	450	1014	3.006038	428
915	2.961421	474	965	2.984527	450	1015	3.006466	428
916	2.961895	474	966	2.984977	449	1016	3.006894	427
917	2.962369	474	967	2.985426	449	1017	3.007321	427
918	2.962843	473	968	2.985875	449	1018	3.007748	426
919	2.963316	472	969	2.986324	448	1019	3.008174	426
920	2.963788	472	970	2.986772	447	1020	3.008600	426
921	2.964260	471	971	2.987219	447	1021	3.009026	425
922	2.964731	471	972	2.987666	447	1022	3.009451	425
923	2.965202	470	973	2.988113	446	1023	3.009876	424
924	2.965672	470	974	2.988559	446	1024	3.010300	424
925	2.966142	469	975	2.989005	445	1025	3.010724	423
926	2.966611	469	976	2.989450	445	1026	3.011147	423
927	2.967080	468	977	2.989895	444	1027	3.011570	423
928	2.967548	468	978	2.990339	444	1028	3.011993	422
929	2.968016	467	979	2.990783	443	1029	3.012415	422
930	2.968483	467	980	2.991226	443	1030	3.012837	422
931	2.968950	466	981	2.991669	442	1031	3.013259	421
932	2.969416	466	982	2.992111	443	1032	3.013680	420
933	2.969882	465	983	2.992554	441	1033	3.014100	421
934	2.970347	465	984	2.992995	441	1034	3.014521	419
935	2.970812	464	985	2.993436	441	1035	3.014940	420
936	2.971276	464	986	2.993877	440	1036	3.015360	419
937	2.971740	463	987	2.994317	440	1037	3.015779	418
938	2.972203	463	988	2.994757	439	1038	3.016197	419
939	2.972666	462	989	2.995196	439	1039	3.016616	417
940	2.973128	462	990	2.995635	439	1040	3.017033	418
941	2.973590	461	991	2.996074	438	1041	3.017451	417
942	2.974051	461	992	2.996512	437	1042	3.017868	416
943	2.974512	460	993	2.996949	437	1043	3.018284	416
944	2.974972	460	994	2.997386	437	1044	3.018700	416
945	2.975432	459	995	2.997823	436	1045	3.019116	416
946	2.975891	459	996	2.998259	436	1046	3.019532	415
947	2.976350	458	997	2.998695	436	1047	3.019947	414
948	2.976808	458	998	2.999131	434	1048	3.020361	414
949	2.977266	458	999	2.999565	435	1049	3.020775	414
950	2.977724		1000	3.000000		1050	3.021189	

Nomb.	O. 22' 30" Logarithh.	Dif.	Nomb.	O. 23' 20" Logarithh.	Dif.	Nomb.	O. 24' 10" Logarithh.	Dif.
1350	3.130334	321	1400	3.146128	310	1450	3.161368	299
1351	3.130655	322	1401	3.146438	310	1451	3.161667	300
1352	3.130977	321	1402	3.146748	310	1452	3.161967	299
1353	3.131298	321	1403	3.147058	309	1453	3.162266	298
1354	3.131619	320	1404	3.147367	309	1454	3.162564	299
1355	3.131939	321	1405	3.147676	309	1455	3.162863	298
1356	3.132260	320	1406	3.147985	309	1456	3.163161	299
1357	3.132580	320	1407	3.148294	309	1457	3.163460	298
1358	3.132900	319	1408	3.148603	308	1458	3.163758	297
1359	3.133219	320	1409	3.148911	308	1459	3.164055	298
1360	3.133539	319	1410	3.149219	308	1460	3.164353	297
1361	3.133858	319	1411	3.149527	308	1461	3.164650	297
1362	3.134177	319	1412	3.149835	307	1462	3.164947	297
1363	3.134496	318	1413	3.150142	307	1463	3.165244	297
1364	3.134814	319	1414	3.150449	307	1464	3.165541	297
1365	3.135133	318	1415	3.150756	307	1465	3.165838	296
1366	3.135451	318	1416	3.151063	307	1466	3.166134	296
1367	3.135769	317	1417	3.151370	306	1467	3.166430	296
1368	3.136086	317	1418	3.151676	306	1468	3.166726	296
1369	3.136403	318	1419	3.151982	306	1469	3.167022	295
1370	3.136721	316	1420	3.152288	306	1470	3.167317	296
1371	3.137037	317	1421	3.152594	306	1471	3.167613	295
1372	3.137354	317	1422	3.152900	305	1472	3.167908	295
1373	3.137671	316	1423	3.153205	305	1473	3.168203	294
1374	3.137987	316	1424	3.153510	305	1474	3.168497	295
1375	3.138303	315	1425	3.153815	305	1475	3.168792	294
1376	3.138618	315	1426	3.154120	304	1476	3.169086	294
1377	3.138933	316	1427	3.154424	304	1477	3.169380	294
1378	3.139249	315	1428	3.154728	304	1478	3.169674	294
1379	3.139564	315	1429	3.155032	304	1479	3.169968	294
1380	3.139879	315	1430	3.155336	304	1480	3.170262	293
1381	3.140194	314	1431	3.155640	303	1481	3.170555	293
1382	3.140508	314	1432	3.155943	303	1482	3.170848	293
1383	3.140822	314	1433	3.156246	303	1483	3.171141	293
1384	3.141136	314	1434	3.156549	303	1484	3.171434	292
1385	3.141450	313	1435	3.156852	302	1485	3.171726	293
1386	3.141763	313	1436	3.157154	303	1486	3.172019	292
1387	3.142076	313	1437	3.157457	302	1487	3.172311	292
1388	3.142389	313	1438	3.157759	302	1488	3.172603	292
1389	3.142702	313	1439	3.158061	301	1489	3.172895	291
1390	3.143015	312	1440	3.158362	302	1490	3.173186	292
1391	3.143327	312	1441	3.158664	301	1491	3.173478	291
1392	3.143639	312	1442	3.158965	301	1492	3.173769	291
1393	3.143951	312	1443	3.159266	301	1493	3.174060	291
1394	3.144263	311	1444	3.159567	301	1494	3.174351	291
1395	3.144574	311	1445	3.159868	300	1495	3.174641	291
1396	3.144885	311	1446	3.160168	301	1496	3.174932	291
1397	3.145196	311	1447	3.160469	300	1497	3.175222	290
1398	3.145507	311	1448	3.160769	299	1498	3.175512	290
1399	3.145818	310	1449	3.161068	299	1499	3.175802	290
1400	3.146128	310	1450	3.161368	300	1500	3.176091	289

Nomb.	0. 25' 0"	Dif.	Nomb.	0. 25' 50"	Dif.	Nomb.	0. 26' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
1500	3.176091		1550	3.190332	280	1600	3.204120	271
1501	3.176381	290	1551	3.190612	280	1601	3.204391	272
1502	3.176670	289	1552	3.190892	280	1602	3.204663	271
1503	3.176959	289	1553	3.191171	279	1603	3.204934	270
1504	3.177248	288	1554	3.191451	280	1604	3.205204	271
1505	3.177536	289	1555	3.191730	279	1605	3.205475	271
1506	3.177825	288	1556	3.192010	280	1606	3.205746	270
1507	3.178113	288	1557	3.192289	279	1607	3.206016	270
1508	3.178401	288	1558	3.192567	278	1608	3.206286	270
1509	3.178689	288	1559	3.192846	279	1609	3.206556	270
1510	3.178977	287	1560	3.193125	278	1610	3.206826	270
1511	3.179264	288	1561	3.193403	278	1611	3.207096	269
1512	3.179552	287	1562	3.193681	278	1612	3.207365	269
1513	3.179839	287	1563	3.193959	278	1613	3.207634	270
1514	3.180126	287	1564	3.194237	277	1614	3.207904	269
1515	3.180413	286	1565	3.194514	278	1615	3.208173	268
1516	3.180699	287	1566	3.194792	277	1616	3.208441	269
1517	3.180986	286	1567	3.195069	277	1617	3.208710	269
1518	3.181272	286	1568	3.195346	277	1618	3.208979	268
1519	3.181558	286	1569	3.195623	277	1619	3.209247	268
1520	3.181844	285	1570	3.195900	276	1620	3.209515	268
1521	3.182129	286	1571	3.196176	277	1621	3.209783	268
1522	3.182415	285	1572	3.196453	277	1622	3.210051	268
1523	3.182700	285	1573	3.196729	276	1623	3.210319	267
1524	3.182985	285	1574	3.197005	276	1624	3.210586	267
1525	3.183270	285	1575	3.197281	275	1625	3.210853	268
1526	3.183555	284	1576	3.197556	276	1626	3.211121	267
1527	3.183839	284	1577	3.197832	275	1627	3.211388	266
1528	3.184123	284	1578	3.198107	275	1628	3.211654	267
1529	3.184407	284	1579	3.198382	275	1629	3.211921	267
1530	3.184691	284	1580	3.198657	275	1630	3.212188	266
1531	3.184975	284	1581	3.198932	274	1631	3.212454	266
1532	3.185259	283	1582	3.199206	275	1632	3.212720	266
1533	3.185542	283	1583	3.199481	274	1633	3.212986	266
1534	3.185825	283	1584	3.199755	274	1634	3.213252	266
1535	3.186108	283	1585	3.200029	274	1635	3.213518	265
1536	3.186391	283	1586	3.200303	274	1636	3.213783	266
1537	3.186674	282	1587	3.200577	273	1637	3.214049	265
1538	3.186956	283	1588	3.200850	274	1638	3.214314	265
1539	3.187239	282	1589	3.201124	273	1639	3.214579	265
1540	3.187521	282	1590	3.201397	273	1640	3.214844	265
1541	3.187803	281	1591	3.201670	273	1641	3.215109	264
1542	3.188084	282	1592	3.201943	273	1642	3.215373	265
1543	3.188366	281	1593	3.202216	272	1643	3.215638	264
1544	3.188647	281	1594	3.202488	273	1644	3.215902	264
1545	3.188928	281	1595	3.202761	272	1645	3.216166	264
1546	3.189209	281	1596	3.203033	272	1646	3.216430	264
1547	3.189490	281	1597	3.203305	272	1647	3.216694	263
1548	3.189771	280	1598	3.203577	271	1648	3.216957	264
1549	3.190051	281	1599	3.203848	272	1649	3.217221	263
1550	3.190332		1600	3.204120	272	1650	3.217484	

Nomb.	0. 27' 30"	Dif.	Nomb.	0. 28' 20"	Dif.	Nomb.	0. 29' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
1650	3.217484	263	1700	3.230449	255	1750	3.243038	248
1651	3.217747	263	1701	3.230704	256	1751	3.243286	248
1652	3.218010	263	1702	3.230960	255	1752	3.243534	248
1653	3.218273	263	1703	3.231215	255	1753	3.243782	248
1654	3.218536	262	1704	3.231470	254	1754	3.244030	247
1655	3.218798	262	1705	3.231724	255	1755	3.244277	247
1656	3.219060	263	1706	3.231979	255	1756	3.244524	248
1657	3.219323	262	1707	3.232234	254	1757	3.244772	247
1658	3.219585	261	1708	3.232488	254	1758	3.245019	247
1659	3.219846	262	1709	3.232742	254	1759	3.245266	247
1660	3.220108	262	1710	3.232996	254	1760	3.245513	246
1661	3.220370	261	1711	3.233250	254	1761	3.245759	247
1662	3.220631	261	1712	3.233504	253	1762	3.246006	246
1663	3.220892	261	1713	3.233757	254	1763	3.246252	247
1664	3.221153	261	1714	3.234011	253	1764	3.246499	246
1665	3.221414	261	1715	3.234264	253	1765	3.246745	246
1666	3.221675	261	1716	3.234517	253	1766	3.246991	246
1667	3.221936	260	1717	3.234770	253	1767	3.247237	245
1668	3.222196	260	1718	3.235023	253	1768	3.247482	246
1669	3.222456	260	1719	3.235276	252	1769	3.247728	245
1670	3.222716	260	1720	3.235528	253	1770	3.247973	246
1671	3.222976	260	1721	3.235781	252	1771	3.248219	245
1672	3.223236	260	1722	3.236033	252	1772	3.248464	245
1673	3.223496	259	1723	3.236285	252	1773	3.248709	245
1674	3.223755	260	1724	3.236537	252	1774	3.248954	244
1675	3.224015	259	1725	3.236789	252	1775	3.249198	245
1676	3.224274	259	1726	3.237041	251	1776	3.249443	244
1677	3.224533	259	1727	3.237292	252	1777	3.249687	245
1678	3.224792	259	1728	3.237544	251	1778	3.249932	244
1679	3.225051	258	1729	3.237795	251	1779	3.250176	244
1680	3.225309	259	1730	3.238046	251	1780	3.250420	244
1681	3.225568	258	1731	3.238297	251	1781	3.250664	244
1682	3.225826	258	1732	3.238548	251	1782	3.250908	243
1683	3.226084	258	1733	3.238799	250	1783	3.251151	244
1684	3.226342	258	1734	3.239049	250	1784	3.251395	243
1685	3.226600	258	1735	3.239299	251	1785	3.251638	243
1686	3.226858	257	1736	3.239550	250	1786	3.251881	244
1687	3.227115	257	1737	3.239800	250	1787	3.252125	243
1688	3.227372	258	1738	3.240050	250	1788	3.252368	242
1689	3.227630	257	1739	3.240300	249	1789	3.252610	243
1690	3.227887	257	1740	3.240549	250	1790	3.252853	243
1691	3.228144	256	1741	3.240799	249	1791	3.253096	242
1692	3.228400	257	1742	3.241048	249	1792	3.253338	242
1693	3.228657	256	1743	3.241297	249	1793	3.253580	242
1694	3.228913	257	1744	3.241546	249	1794	3.253822	242
1695	3.229170	256	1745	3.241795	249	1795	3.254064	242
1696	3.229426	256	1746	3.242044	249	1796	3.254306	242
1697	3.229682	256	1747	3.242293	248	1797	3.254548	242
1698	3.229938	255	1748	3.242541	249	1798	3.254790	241
1699	3.230193	256	1749	3.242790	248	1799	3.255031	241
1700	3.230449		1750	3.243038	248	1800	3.255273	242

Nomb.	0. 25' 0" Logarith.	Dif.	Nomb.	0. 25' 50" Logarith.	Dif.	Nomb.	0. 26' 40" Logarith.	Dif.
1500	3.176091	290	1550	3.190332	280	1600	3.204120	271
1501	3.176381	289	1551	3.190612	280	1601	3.204391	272
1502	3.176670	289	1552	3.190892	279	1602	3.204663	271
1503	3.176959	289	1553	3.191171	280	1603	3.204934	270
1504	3.177248	288	1554	3.191451	279	1604	3.205204	271
1505	3.177536	289	1555	3.191730	280	1605	3.205475	271
1506	3.177825	288	1556	3.192010	279	1606	3.205746	270
1507	3.178113	288	1557	3.192289	278	1607	3.206016	270
1508	3.178401	288	1558	3.192567	279	1608	3.206286	270
1509	3.178689	288	1559	3.192846	279	1609	3.206556	270
1510	3.178977	287	1560	3.193125	278	1610	3.206826	270
1511	3.179264	288	1561	3.193403	278	1611	3.207096	269
1512	3.179552	287	1562	3.193681	278	1612	3.207365	269
1513	3.179839	287	1563	3.193959	277	1613	3.207634	270
1514	3.180126	287	1564	3.194237	277	1614	3.207904	269
1515	3.180413	286	1565	3.194514	278	1615	3.208173	268
1516	3.180699	287	1566	3.194792	277	1616	3.208441	269
1517	3.180986	286	1567	3.195069	277	1617	3.208710	269
1518	3.181272	286	1568	3.195346	277	1618	3.208979	268
1519	3.181558	286	1569	3.195623	277	1619	3.209247	268
1520	3.181844	285	1570	3.195900	276	1620	3.209515	268
1521	3.182129	286	1571	3.196176	277	1621	3.209783	268
1522	3.182415	285	1572	3.196453	276	1622	3.210051	268
1523	3.182700	285	1573	3.196729	276	1623	3.210319	267
1524	3.182985	285	1574	3.197005	276	1624	3.210586	267
1525	3.183270	285	1575	3.197281	275	1625	3.210853	268
1526	3.183555	284	1576	3.197556	276	1626	3.211121	267
1527	3.183839	284	1577	3.197832	275	1627	3.211388	266
1528	3.184123	284	1578	3.198107	275	1628	3.211654	267
1529	3.184407	284	1579	3.198382	275	1629	3.211921	267
1530	3.184691	284	1580	3.198657	274	1630	3.212188	266
1531	3.184975	284	1581	3.198932	275	1631	3.212454	266
1532	3.185259	283	1582	3.199206	275	1632	3.212720	266
1533	3.185542	283	1583	3.199481	274	1633	3.212986	266
1534	3.185825	283	1584	3.199755	274	1634	3.213252	266
1535	3.186108	283	1585	3.200029	274	1635	3.213518	265
1536	3.186391	283	1586	3.200303	274	1636	3.213783	266
1537	3.186674	282	1587	3.200577	273	1637	3.214049	265
1538	3.186956	283	1588	3.200850	274	1638	3.214314	265
1539	3.187239	282	1589	3.201124	273	1639	3.214579	265
1540	3.187521	282	1590	3.201397	273	1640	3.214844	265
1541	3.187803	281	1591	3.201670	273	1641	3.215109	264
1542	3.188084	282	1592	3.201943	273	1642	3.215373	265
1543	3.188366	281	1593	3.202216	272	1643	3.215638	264
1544	3.188647	281	1594	3.202488	273	1644	3.215902	264
1545	3.188928	281	1595	3.202761	272	1645	3.216166	264
1546	3.189209	281	1596	3.203033	272	1646	3.216430	264
1547	3.189490	281	1597	3.203305	272	1647	3.216694	263
1548	3.189771	280	1598	3.203577	271	1648	3.216957	264
1549	3.190051	281	1599	3.203848	272	1649	3.217221	263
1550	3.190332		1600	3.204120		1650	3.217484	

Nomb.	α. 27' 30"	Dif.	Nomb.	α. 28' 20"	Dif.	Nomb.	α. 29' 10"
	Logarith.			Logarith.			Logarith.
1650	3.217484		1700	3.230449		1750	3.243038
1651	3.217747	263	1701	3.230704	255	1751	3.243286
1652	3.218010	263	1702	3.230960	256	1752	3.243534
1653	3.218273	263	1703	3.231215	255	1753	3.243782
1654	3.218536	263	1704	3.231470	255	1754	3.244030
1655	3.218798	262	1705	3.231724	254	1755	3.244277
1656	3.219060	262	1706	3.231979	255	1756	3.244524
1657	3.219323	263	1707	3.232234	255	1757	3.244772
1658	3.219585	262	1708	3.232488	254	1758	3.245019
1659	3.219846	261	1709	3.232742	254	1759	3.245266
1660	3.220108	262	1710	3.232996	254	1760	3.245513
1661	3.220370	262	1711	3.233250	254	1761	3.245759
1662	3.220631	261	1712	3.233504	254	1762	3.246006
1663	3.220892	261	1713	3.233757	253	1763	3.246252
1664	3.221153	261	1714	3.234011	254	1764	3.246499
1665	3.221414	261	1715	3.234264	253	1765	3.246745
1666	3.221675	261	1716	3.234517	253	1766	3.246991
1667	3.221936	260	1717	3.234770	253	1767	3.247237
1668	3.222196	260	1718	3.235023	253	1768	3.247482
1669	3.222456	260	1719	3.235276	252	1769	3.247728
1670	3.222716	260	1720	3.235528	252	1770	3.247973
1671	3.222976	260	1721	3.235781	252	1771	3.248219
1672	3.223236	260	1722	3.236033	252	1772	3.248464
1673	3.223496	259	1723	3.236285	252	1773	3.248709
1674	3.223755	260	1724	3.236537	252	1774	3.248954
1675	3.224015	259	1725	3.236789	252	1775	3.249198
1676	3.224274	259	1726	3.237041	251	1776	3.249443
1677	3.224533	259	1727	3.237292	252	1777	3.249687
1678	3.224792	259	1728	3.237544	251	1778	3.249932
1679	3.225051	258	1729	3.237795	251	1779	3.250176
1680	3.225309	259	1730	3.238046	251	1780	3.250420
1681	3.225568	258	1731	3.238297	251	1781	3.250664
1682	3.225826	258	1732	3.238548	251	1782	3.250908
1683	3.226084	258	1733	3.238799	250	1783	3.251151
1684	3.226342	258	1734	3.239049	250	1784	3.251395
1685	3.226600	258	1735	3.239299	251	1785	3.251638
1686	3.226858	257	1736	3.239550	250	1786	3.251881
1687	3.227115	257	1737	3.239800	250	1787	3.252125
1688	3.227372	258	1738	3.240050	250	1788	3.252368
1689	3.227630	257	1739	3.240300	249	1789	3.252610
1690	3.227887	257	1740	3.240549	249	1790	3.252853
1691	3.228144	256	1741	3.240799	249	1791	3.253096
1692	3.228400	257	1742	3.241048	249	1792	3.253338
1693	3.228657	256	1743	3.241297	249	1793	3.253580
1694	3.228913	257	1744	3.241546	249	1794	3.253822
1695	3.229170	256	1745	3.241795	249	1795	3.254064
1696	3.229426	256	1746	3.242044	249	1796	3.254306
1697	3.229682	256	1747	3.242293	248	1797	3.254548
1698	3.229938	255	1748	3.242541	249	1798	3.254790
1699	3.230193	256	1749	3.242790	248	1799	3.255031
1700	3.230449	256	1750	3.243038	248	1800	3.255273

Nomb.	0. 30' 0"	Dif.	Nomb.	0. 30' 50"	Dif.	Nomb.	0. 31' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
1800	3.255273	241	1850	3.267172	234	1900	3.278754	228
1801	3.255514	241	1851	3.267406	235	1901	3.278982	229
1802	3.255755	241	1852	3.267641	234	1902	3.279211	228
1803	3.255996	240	1853	3.267875	235	1903	3.279439	228
1804	3.256236	241	1854	3.268110	234	1904	3.279667	228
1805	3.256477	241	1855	3.268344	234	1905	3.279895	228
1806	3.256718	240	1856	3.268578	234	1906	3.280123	228
1807	3.256958	240	1857	3.268812	234	1907	3.280351	227
1808	3.257198	241	1858	3.269046	233	1908	3.280578	228
1809	3.257439	240	1859	3.269279	234	1909	3.280806	227
1810	3.257679	239	1860	3.269513	233	1910	3.281033	228
1811	3.257918	240	1861	3.269746	234	1911	3.281261	227
1812	3.258158	240	1862	3.269980	233	1912	3.281488	227
1813	3.258398	239	1863	3.270213	233	1913	3.281715	227
1814	3.258637	240	1864	3.270446	233	1914	3.281942	227
1815	3.258877	239	1865	3.270679	233	1915	3.282169	227
1816	3.259116	239	1866	3.270912	232	1916	3.282396	226
1817	3.259355	239	1867	3.271144	233	1917	3.282622	227
1818	3.259594	239	1868	3.271377	232	1918	3.282849	226
1819	3.259833	238	1869	3.271609	233	1919	3.283075	226
1820	3.260071	239	1870	3.271842	232	1920	3.283301	226
1821	3.260310	238	1871	3.272074	232	1921	3.283527	226
1822	3.260548	239	1872	3.272306	232	1922	3.283753	226
1823	3.260787	238	1873	3.272538	232	1923	3.283979	226
1824	3.261025	238	1874	3.272770	231	1924	3.284205	226
1825	3.261263	238	1875	3.273001	232	1925	3.284431	225
1826	3.261501	238	1876	3.273233	231	1926	3.284656	226
1827	3.261739	237	1877	3.273464	232	1927	3.284882	225
1828	3.261976	238	1878	3.273696	231	1928	3.285107	225
1829	3.262214	237	1879	3.273927	231	1929	3.285332	225
1830	3.262451	237	1880	3.274158	231	1930	3.285557	225
1831	3.262688	237	1881	3.274389	231	1931	3.285782	225
1832	3.262925	237	1882	3.274620	230	1932	3.286007	225
1833	3.263162	237	1883	3.274850	231	1933	3.286232	224
1834	3.263399	237	1884	3.275081	230	1934	3.286456	225
1835	3.263636	237	1885	3.275311	231	1935	3.286681	224
1836	3.263873	236	1886	3.275542	230	1936	3.286905	225
1837	3.264109	237	1887	3.275772	230	1937	3.287130	224
1838	3.264346	236	1888	3.276002	230	1938	3.287354	224
1839	3.264582	236	1889	3.276232	230	1939	3.287578	224
1840	3.264818	236	1890	3.276462	230	1940	3.287802	224
1841	3.265054	236	1891	3.276692	229	1941	3.288026	223
1842	3.265290	235	1892	3.276921	230	1942	3.288249	224
1843	3.265525	236	1893	3.277151	229	1943	3.288473	223
1844	3.265761	235	1894	3.277380	229	1944	3.288696	224
1845	3.265996	236	1895	3.277609	229	1945	3.288920	223
1846	3.266232	235	1896	3.277838	229	1946	3.289143	223
1847	3.266467	235	1897	3.278066	229	1947	3.289366	223
1848	3.266702	235	1898	3.278296	229	1948	3.289589	223
1849	3.266937	235	1899	3.278525	229	1949	3.289812	223
1850	3.267172		1900	3.278754		1950	3.290035	

Nomb.	o. 37' 30" Logarithh.	Dif.	Nomb.	o. 38' 20" Logarithh.	Dif.	Nomb.	o. 39' 10" Logarithh.	Dif.
2250	3.352183		2300	3.361728		2350	3.371068	185
2251	3.352375	192	2301	3.361917	189	2351	3.371253	184
2252	3.352568	193	2302	3.362105	188	2352	3.371437	185
2253	3.352761	193	2303	3.362294	189	2353	3.371622	184
2254	3.352954	193	2304	3.362482	188	2354	3.371806	185
2255	3.353147	192	2305	3.362671	189	2355	3.371991	184
2256	3.353339	193	2306	3.362859	188	2356	3.372175	185
2257	3.353532	192	2307	3.363048	189	2357	3.372360	184
2258	3.353724	192	2308	3.363236	188	2358	3.372544	184
2259	3.353916	192	2309	3.363424	188	2359	3.372728	184
2260	3.354108	193	2310	3.363612	188	2360	3.372912	184
2261	3.354301	192	2311	3.363800	188	2361	3.373096	184
2262	3.354493	192	2312	3.363988	188	2362	3.373280	184
2263	3.354685	192	2313	3.364176	188	2363	3.373464	183
2264	3.354876	191	2314	3.364363	187	2364	3.373647	184
2265	3.355068	192	2315	3.364551	188	2365	3.373831	184
2266	3.355260	192	2316	3.364739	187	2366	3.374015	183
2267	3.355452	191	2317	3.364926	187	2367	3.374198	184
2268	3.355643	191	2318	3.365113	188	2368	3.374382	183
2269	3.355834	192	2319	3.365301	187	2369	3.374565	183
2270	3.356026	191	2320	3.365488	187	2370	3.374748	184
2271	3.356217	191	2321	3.365675	187	2371	3.374932	183
2272	3.356408	191	2322	3.365862	187	2372	3.375115	183
2273	3.356599	191	2323	3.366049	187	2373	3.375298	183
2274	3.356790	191	2324	3.366236	187	2374	3.375481	183
2275	3.356981	191	2325	3.366423	187	2375	3.375664	182
2276	3.357172	191	2326	3.366610	186	2376	3.375846	183
2277	3.357363	191	2327	3.366796	186	2377	3.376029	183
2278	3.357554	190	2328	3.366983	186	2378	3.376212	182
2279	3.357744	191	2329	3.367169	187	2379	3.376394	183
2280	3.357935	190	2330	3.367356	186	2380	3.376577	182
2281	3.358125	191	2331	3.367542	187	2381	3.376759	183
2282	3.358316	190	2332	3.367729	186	2382	3.376942	182
2283	3.358506	190	2333	3.367915	186	2383	3.377124	182
2284	3.358696	190	2334	3.368101	186	2384	3.377306	182
2285	3.358886	190	2335	3.368287	186	2385	3.377488	182
2286	3.359076	190	2336	3.368473	186	2386	3.377670	182
2287	3.359266	190	2337	3.368659	185	2387	3.377852	182
2288	3.359456	190	2338	3.368844	186	2388	3.378034	182
2289	3.359646	189	2339	3.369030	186	2389	3.378216	182
2290	3.359835	190	2340	3.369216	185	2390	3.378398	182
2291	3.360025	190	2341	3.369401	186	2391	3.378580	181
2292	3.360215	189	2342	3.369587	185	2392	3.378761	182
2293	3.360404	189	2343	3.369772	186	2393	3.378943	181
2294	3.360593	190	2344	3.369958	185	2394	3.379124	182
2295	3.360783	189	2345	3.370143	185	2395	3.379306	181
2296	3.360972	189	2346	3.370328	185	2396	3.379487	181
2297	3.361161	189	2347	3.370513	185	2397	3.379668	181
2298	3.361350	189	2348	3.370698	185	2398	3.379849	181
2299	3.361539	189	2349	3.370883	185	2399	3.380030	181
2300	3.361728	189	2350	3.371068	185	2400	3.380211	181

Nomb.	o. 35' 0"	Dif.	Nomb.	o. 35' 50"	Dif.	Nomb.	o. 36' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
2100	3.322219		2150	3.332438		2200	3.342423	
2101	3.322426	207	2151	3.332640	202	2201	3.342620	197
2102	3.322633	207	2152	3.332842	202	2202	3.342817	197
2103	3.322839	206	2153	3.333044	202	2203	3.343014	197
2104	3.323046	207	2154	3.333246	202	2204	3.343212	198
2105	3.323252	206	2155	3.333447	201	2205	3.343409	197
2106	3.323458	206	2156	3.333649	202	2206	3.343606	197
2107	3.323665	207	2157	3.333850	201	2207	3.343802	196
2108	3.323871	206	2158	3.334051	201	2208	3.343999	197
2109	3.324077	206	2159	3.334253	202	2209	3.344196	197
2110	3.324282	205	2160	3.334454	201	2210	3.344392	196
2111	3.324488	206	2161	3.334655	201	2211	3.344589	197
2112	3.324694	206	2162	3.334856	201	2212	3.344785	196
2113	3.324899	205	2163	3.335056	200	2213	3.344981	196
2114	3.325105	206	2164	3.335257	201	2214	3.345178	197
2115	3.325310	205	2165	3.335458	201	2215	3.345374	196
2116	3.325516	206	2166	3.335658	200	2216	3.345570	196
2117	3.325721	205	2167	3.335859	201	2217	3.345766	196
2118	3.325926	205	2168	3.336059	200	2218	3.345962	196
2119	3.326131	205	2169	3.336260	201	2219	3.346157	195
2120	3.326336	205	2170	3.336460	200	2220	3.346353	196
2121	3.326541	205	2171	3.336660	200	2221	3.346549	196
2122	3.326745	204	2172	3.336860	200	2222	3.346744	195
2123	3.326950	205	2173	3.337060	200	2223	3.346939	195
2124	3.327155	205	2174	3.337260	200	2224	3.347135	196
2125	3.327359	204	2175	3.337459	199	2225	3.347330	195
2126	3.327563	204	2176	3.337659	200	2226	3.347525	195
2127	3.327767	204	2177	3.337858	199	2227	3.347720	195
2128	3.327972	205	2178	3.338058	200	2228	3.347915	195
2129	3.328176	204	2179	3.338257	199	2229	3.348110	195
2130	3.328380	204	2180	3.338456	199	2230	3.348305	195
2131	3.328583	203	2181	3.338656	200	2231	3.348500	195
2132	3.328787	204	2182	3.338855	199	2232	3.348694	194
2133	3.328991	204	2183	3.339054	199	2233	3.348889	195
2134	3.329194	203	2184	3.339253	199	2234	3.349083	194
2135	3.329398	204	2185	3.339451	198	2235	3.349278	195
2136	3.329601	203	2186	3.339650	199	2236	3.349472	194
2137	3.329805	204	2187	3.339849	199	2237	3.349666	194
2138	3.330008	203	2188	3.340047	198	2238	3.349860	194
2139	3.330211	203	2189	3.340246	199	2239	3.350054	194
2140	3.330414	203	2190	3.340444	198	2240	3.350248	194
2141	3.330617	203	2191	3.340642	198	2241	3.350442	194
2142	3.330819	202	2192	3.340841	199	2242	3.350636	194
2143	3.331022	203	2193	3.341039	198	2243	3.350829	193
2144	3.331225	203	2194	3.341237	198	2244	3.351023	194
2145	3.331427	202	2195	3.341435	198	2245	3.351216	193
2146	3.331630	203	2196	3.341632	197	2246	3.351410	194
2147	3.331832	202	2197	3.341830	198	2247	3.351603	193
2148	3.332034	202	2198	3.342028	198	2248	3.351796	193
2149	3.332236	202	2199	3.342225	197	2249	3.351989	193
2150	3.332438	202	2200	3.342423	198	2250	3.352183	194

Nomb.	o. 37° 30'	Dif.	Nomb.	o. 38° 20'	Dif.	Nomb.	o. 39° 10'	Dif.
	Logarith.			Logarith.			Logarith.	
2250	3.352183		2300	3.361728	189	2350	3.371068	185
2251	3.352375	192	2301	3.361917	188	2351	3.371253	184
2252	3.352568	193	2302	3.362105	189	2352	3.371437	185
2253	3.352761	193	2303	3.362294	188	2353	3.371622	184
2254	3.352954	193	2304	3.362482	189	2354	3.371806	185
2255	3.353147	192	2305	3.362671	188	2355	3.371991	184
2256	3.353339	193	2306	3.362859	189	2356	3.372175	185
2257	3.353532	192	2307	3.363048	188	2357	3.372360	184
2258	3.353724	192	2308	3.363236	188	2358	3.372544	184
2259	3.353916	192	2309	3.363424	188	2359	3.372728	184
2260	3.354108	193	2310	3.363612	188	2360	3.372912	184
2261	3.354301	192	2311	3.363800	188	2361	3.373096	184
2262	3.354493	192	2312	3.363988	188	2362	3.373280	184
2263	3.354685	191	2313	3.364176	187	2363	3.373464	183
2264	3.354876	192	2314	3.364363	188	2364	3.373647	184
2265	3.355068	192	2315	3.364551	188	2365	3.373831	184
2266	3.355260	192	2316	3.364739	187	2366	3.374015	183
2267	3.355452	191	2317	3.364926	187	2367	3.374198	184
2268	3.355643	191	2318	3.365113	188	2368	3.374382	183
2269	3.355834	192	2319	3.365301	187	2369	3.374565	183
2270	3.356026	191	2320	3.365488	187	2370	3.374748	184
2271	3.356217	191	2321	3.365675	187	2371	3.374932	183
2272	3.356408	191	2322	3.365862	187	2372	3.375115	185
2273	3.356599	191	2323	3.366049	187	2373	3.375298	183
2274	3.356790	191	2324	3.366236	187	2374	3.375481	183
2275	3.356981	191	2325	3.366423	187	2375	3.375664	182
2276	3.357172	191	2326	3.366610	186	2376	3.375846	183
2277	3.357363	191	2327	3.366796	187	2377	3.376029	183
2278	3.357554	190	2328	3.366983	186	2378	3.376212	182
2279	3.357744	191	2329	3.367169	187	2379	3.376394	183
2280	3.357935	190	2330	3.367356	186	2380	3.376577	182
2281	3.358125	191	2331	3.367542	187	2381	3.376759	183
2282	3.358316	190	2332	3.367729	186	2382	3.376942	182
2283	3.358506	190	2333	3.367915	186	2383	3.377124	182
2284	3.358696	190	2334	3.368101	186	2384	3.377306	182
2285	3.358886	190	2335	3.368287	186	2385	3.377488	182
2286	3.359076	190	2336	3.368473	186	2386	3.377670	182
2287	3.359266	190	2337	3.368659	185	2387	3.377852	182
2288	3.359456	190	2338	3.368844	186	2388	3.378034	182
2289	3.359646	189	2339	3.369030	186	2389	3.378216	182
2290	3.359835	190	2340	3.369216	185	2390	3.378398	182
2291	3.360025	190	2341	3.369401	186	2391	3.378580	181
2292	3.360215	189	2342	3.369587	185	2392	3.378761	182
2293	3.360404	189	2343	3.369772	186	2393	3.378943	181
2294	3.360593	190	2344	3.369958	185	2394	3.379124	182
2295	3.360783	189	2345	3.370143	185	2395	3.379306	181
2296	3.360972	189	2346	3.370328	185	2396	3.379487	181
2297	3.361161	189	2347	3.370513	185	2397	3.379668	181
2298	3.361350	189	2348	3.370698	185	2398	3.379849	181
2299	3.361539	189	2349	3.370883	185	2399	3.380030	181
2300	3.361728	189	2350	3.371068	185	2400	3.380211	181

Nomb.	0. 40' 0"	Dif.	Nomb.	0. 40' 50"	Dif.	Nomb.	0. 41' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
2400	3.380211	181	2450	3.389166	177	2500	3.399441	174
2401	3.380392	181	2451	3.389343	177	2501	3.398114	173
2402	3.380573	181	2452	3.389520	177	2502	3.398287	174
2403	3.380754	180	2453	3.389698	178	2503	3.398461	173
2404	3.380934	181	2454	3.389875	177	2504	3.398634	174
2405	3.381115	181	2455	3.390051	176	2505	3.398808	173
2406	3.381296	180	2456	3.390228	177	2506	3.398981	173
2407	3.381476	180	2457	3.390405	177	2507	3.399154	174
2408	3.381656	181	2458	3.390582	177	2508	3.399328	173
2409	3.381837	180	2459	3.390759	176	2509	3.399501	173
2410	3.382017	180	2460	3.390935	177	2510	3.399674	173
2411	3.382197	180	2461	3.391112	176	2511	3.399847	173
2412	3.382377	180	2462	3.391288	176	2512	3.400020	172
2413	3.382557	180	2463	3.391464	177	2513	3.400192	173
2414	3.382737	180	2464	3.391641	176	2514	3.400365	173
2415	3.382917	180	2465	3.391817	176	2515	3.400538	173
2416	3.383097	180	2466	3.391993	176	2516	3.400711	172
2417	3.383277	179	2467	3.392169	176	2517	3.400883	173
2418	3.383456	180	2468	3.392345	176	2518	3.401056	172
2419	3.383636	179	2469	3.392521	176	2519	3.401228	173
2420	3.383815	180	2470	3.392697	176	2520	3.401401	172
2421	3.383995	179	2471	3.392873	175	2521	3.401573	172
2422	3.384174	179	2472	3.393048	176	2522	3.401745	172
2423	3.384353	180	2473	3.393224	176	2523	3.401917	172
2424	3.384533	179	2474	3.393400	175	2524	3.402089	172
2425	3.384712	179	2475	3.393575	176	2525	3.402261	172
2426	3.384891	179	2476	3.393751	175	2526	3.402433	172
2427	3.385070	179	2477	3.393926	175	2527	3.402605	172
2428	3.385249	179	2478	3.394101	176	2528	3.402777	172
2429	3.385428	178	2479	3.394277	175	2529	3.402949	172
2430	3.385606	179	2480	3.394452	175	2530	3.403121	171
2431	3.385785	179	2481	3.394627	175	2531	3.403292	172
2432	3.385964	178	2482	3.394802	175	2532	3.403464	171
2433	3.386142	179	2483	3.394977	175	2533	3.403635	172
2434	3.386321	178	2484	3.395152	174	2534	3.403807	171
2435	3.386499	178	2485	3.395326	175	2535	3.403978	171
2436	3.386677	179	2486	3.395501	175	2536	3.404149	171
2437	3.386856	178	2487	3.395676	174	2537	3.404320	172
2438	3.387034	178	2488	3.395850	175	2538	3.404492	171
2439	3.387212	178	2489	3.396025	174	2539	3.404663	171
2440	3.387390	178	2490	3.396199	175	2540	3.404834	171
2441	3.387568	178	2491	3.396374	174	2541	3.405005	171
2442	3.387746	177	2492	3.396548	174	2542	3.405176	170
2443	3.387923	178	2493	3.396722	174	2543	3.405346	171
2444	3.388101	178	2494	3.396896	175	2544	3.405517	171
2445	3.388279	177	2495	3.397071	174	2545	3.405688	170
2446	3.388456	178	2496	3.397245	174	2546	3.405858	171
2447	3.388634	177	2497	3.397419	173	2547	3.406029	170
2448	3.388811	178	2498	3.397592	174	2548	3.406199	171
2449	3.388989	177	2499	3.397766	174	2549	3.406370	170
2450	3.389166	177	2500	3.397940	174	2550	3.406540	170

Nomb.	0. 42' 30" Logarith.	Dif.	Nomb.	0. 43' 20" Logarith.	Dif.	Nomb.	0. 44' 10" Logarith.	Dif.
2550	3.406540	170	2600	3.414973	167	2650	3.423246	164
2551	3.406710	171	2601	3.415140	167	2651	3.423410	164
2552	3.406881	170	2602	3.415307	167	2652	3.423574	163
2553	3.407051	170	2603	3.415474	167	2653	3.423737	164
2554	3.407221	170	2604	3.415641	167	2654	3.423901	164
		170			167			164
2555	3.407391	170	2605	3.415808	166	2655	3.424065	163
2556	3.407561	170	2606	3.415974	167	2656	3.424228	164
2557	3.407731	170	2607	3.416141	167	2657	3.424392	163
2558	3.407901	169	2608	3.416308	166	2658	3.424555	163
2559	3.408070	170	2609	3.416474	167	2659	3.424718	164
		170			166			163
2560	3.408240	170	2610	3.416641	166	2660	3.424882	163
2561	3.408410	169	2611	3.416807	166	2661	3.425045	163
2562	3.408579	170	2612	3.416973	166	2662	3.425208	163
2563	3.408749	169	2613	3.417139	167	2663	3.425371	163
2564	3.408918	169	2614	3.417306	166	2664	3.425534	163
		170			166			163
2565	3.409087	170	2615	3.417472	166	2665	3.425697	163
2566	3.409257	169	2616	3.417638	166	2666	3.425860	163
2567	3.409426	169	2617	3.417804	166	2667	3.426023	163
2568	3.409595	169	2618	3.417970	165	2668	3.426186	163
2569	3.409764	169	2619	3.418135	166	2669	3.426349	162
		169			166			162
2570	3.409933	169	2620	3.418301	166	2670	3.426511	163
2571	3.410102	169	2621	3.418467	166	2671	3.426674	162
2572	3.410271	169	2622	3.418633	165	2672	3.426836	163
2573	3.410440	169	2623	3.418798	166	2673	3.426999	162
2574	3.410609	168	2624	3.418964	165	2674	3.427161	163
		169			166			162
2575	3.410777	169	2625	3.419129	166	2675	3.427324	162
2576	3.410946	168	2626	3.419295	165	2676	3.427486	162
2577	3.411114	169	2627	3.419460	165	2677	3.427648	163
2578	3.411283	168	2628	3.419625	166	2678	3.427811	162
2579	3.411451	169	2629	3.419791	165	2679	3.427973	162
		168			165			162
2580	3.411620	168	2630	3.419956	165	2680	3.428135	162
2581	3.411788	168	2631	3.420121	165	2681	3.428297	162
2582	3.411956	168	2632	3.420286	165	2682	3.428459	162
2583	3.412124	169	2633	3.420451	165	2683	3.428621	162
2584	3.412293	168	2634	3.420616	165	2684	3.428783	161
		168			164			162
2585	3.412461	168	2635	3.420781	164	2685	3.428944	162
2586	3.412629	16-	2636	3.420945	165	2686	3.429106	162
2587	3.412796	168	2637	3.421110	165	2687	3.429268	161
2588	3.412964	168	2638	3.421275	164	2688	3.429429	162
2589	3.413132	168	2639	3.421439	165	2689	3.429591	161
		167			164			162
2590	3.413300	167	2640	3.421604	165	2690	3.429752	161
2591	3.413467	168	2641	3.421768	164	2691	3.429914	161
2592	3.413635	168	2642	3.421933	164	2692	3.430075	161
2593	3.413803	167	2643	3.422097	164	2693	3.430236	162
2594	3.413970	167	2644	3.422261	165	2694	3.430398	161
		168			164			161
2595	3.414137	168	2645	3.422426	164	2695	3.430559	161
2596	3.414305	167	2646	3.422590	164	2696	3.430720	161
2597	3.414472	167	2647	3.422754	164	2697	3.430881	161
2598	3.414639	167	2648	3.422918	164	2698	3.431042	161
2599	3.414806	167	2649	3.423082	164	2699	3.431203	161
2600	3.414973	167	2650	3.423246	164	2700	3.431364	161

Nomb.	o. 45° 0'	Dif.	Nomb.	o. 45° 50'	Dif.	Nomb.	o. 46° 40'	Dif.
	Logarith.			Logarith.			Logarith.	
2700	3.431364		2750	3.439333	158	2800	3.447158	155
2701	3.431525	161	2751	3.439491	157	2801	3.447313	155
2702	3.431685	160	2752	3.439648	158	2802	3.447468	155
2703	3.431846	161	2753	3.439806	158	2803	3.447623	155
2704	3.432007	160	2754	3.439964	158	2804	3.447778	155
2705	3.432167	161	2755	3.440122	157	2805	3.447933	155
2706	3.432328	160	2756	3.440279	158	2806	3.448088	154
2707	3.432488	161	2757	3.440437	157	2807	3.448242	155
2708	3.432649	160	2758	3.440594	158	2808	3.448397	155
2709	3.432809	160	2759	3.440752	157	2809	3.448552	154
2710	3.432969	161	2760	3.440909	157	2810	3.448706	155
2711	3.433130	160	2761	3.441066	158	2811	3.448861	154
2712	3.433290	160	2762	3.441224	157	2812	3.449015	155
2713	3.433450	160	2763	3.441381	157	2813	3.449170	154
2714	3.433610	160	2764	3.441538	157	2814	3.449324	154
2715	3.433770	160	2765	3.441695	157	2815	3.449478	155
2716	3.433930	160	2766	3.441852	157	2816	3.449633	154
2717	3.434090	159	2767	3.442009	157	2817	3.449787	154
2718	3.434249	160	2768	3.442166	157	2818	3.449941	154
2719	3.434409	160	2769	3.442323	157	2819	3.450095	154
2720	3.434569	160	2770	3.442480	157	2820	3.450249	154
2721	3.434729	159	2771	3.442637	156	2821	3.450403	154
2722	3.434888	160	2772	3.442793	157	2822	3.450557	154
2723	3.435048	159	2773	3.442950	156	2823	3.450711	154
2724	3.435207	160	2774	3.443106	157	2824	3.450865	153
2725	3.435367	159	2775	3.443263	156	2825	3.451018	154
2726	3.435526	159	2776	3.443419	157	2826	3.451172	154
2727	3.435685	159	2777	3.443576	156	2827	3.451326	153
2728	3.435844	160	2778	3.443732	157	2828	3.451479	154
2729	3.436004	159	2779	3.443889	156	2829	3.451633	153
2730	3.436163	159	2780	3.444045	156	2830	3.451786	154
2731	3.436322	159	2781	3.444201	156	2831	3.451940	153
2732	3.436481	159	2782	3.444355	156	2832	3.452093	154
2733	3.436640	159	2783	3.444513	156	2833	3.452247	153
2734	3.436799	158	2784	3.444669	156	2834	3.452400	153
2735	3.436957	159	2785	3.444825	156	2835	3.452553	153
2736	3.437116	159	2786	3.444981	156	2836	3.452706	153
2737	3.437275	158	2787	3.445137	156	2837	3.452859	153
2738	3.437433	159	2788	3.445293	156	2838	3.453012	153
2739	3.437592	159	2789	3.445449	155	2839	3.453165	153
2740	3.437751	158	2790	3.445604	156	2840	3.453318	153
2741	3.437909	158	2791	3.445760	155	2841	3.453471	153
2742	3.438067	159	2792	3.445915	156	2842	3.453624	153
2743	3.438226	158	2793	3.446071	155	2843	3.453777	153
2744	3.438384	158	2794	3.446226	156	2844	3.453930	152
2745	3.438542	159	2795	3.446382	155	2845	3.454082	153
2746	3.438701	158	2796	3.446537	155	2846	3.454235	152
2747	3.438859	158	2797	3.446692	156	2847	3.454387	153
2748	3.439017	158	2798	3.446848	155	2848	3.454540	152
2749	3.439175	158	2799	3.447003	155	2849	3.454692	153
2750	3.439333		2800	3.447158	155	2850	3.454845	

Nomb.	0. 52' 30" Logarith.	Dif.	Nomb.	0. 53' 20" Logarith.	Dif.	Nomb.	0. 54' 10" Logarith.	Dif.
3150	3.498311	137	3200	3.505150	136	3250	3.511883	134
3151	3.498448	138	3201	3.505286	135	3251	3.512017	134
3152	3.498586	138	3202	3.505421	136	3252	3.512151	133
3153	3.498724	138	3203	3.505557	136	3253	3.512284	134
3154	3.498862	137	3204	3.505693	135	3254	3.512418	133
3155	3.498999	138	3205	3.505828	136	3255	3.512551	133
3156	3.499137	138	3206	3.505964	135	3256	3.512684	134
3157	3.499275	137	3207	3.506099	135	3257	3.512818	133
3158	3.499412	138	3208	3.506234	136	3258	3.512951	133
3159	3.499550	137	3209	3.506370	135	3259	3.513084	134
3160	3.499687	137	3210	3.506505	135	3260	3.513218	133
3161	3.499824	138	3211	3.506640	136	3261	3.513351	133
3162	3.499962	137	3212	3.506776	135	3262	3.513484	133
3163	3.500099	137	3213	3.506911	135	3263	3.513617	133
3164	3.500236	138	3214	3.507046	135	3264	3.513750	133
3165	3.500374	137	3215	3.507181	135	3265	3.513883	133
3166	3.500511	137	3216	3.507316	135	3266	3.514016	133
3167	3.500648	137	3217	3.507451	135	3267	3.514149	133
3168	3.500785	137	3218	3.507586	135	3268	3.514282	133
3169	3.500922	137	3219	3.507721	135	3269	3.514415	133
3170	3.501059	137	3220	3.507856	135	3270	3.514548	132
3171	3.501196	137	3221	3.507991	135	3271	3.514680	133
3172	3.501333	137	3222	3.508126	134	3272	3.514813	133
3173	3.501470	137	3223	3.508260	135	3273	3.514946	133
3174	3.501607	137	3224	3.508395	135	3274	3.515079	132
3175	3.501744	136	3225	3.508530	134	3275	3.515211	133
3176	3.501880	137	3226	3.508664	135	3276	3.515344	132
3177	3.502017	137	3227	3.508799	135	3277	3.515476	133
3178	3.502154	137	3228	3.508934	134	3278	3.515609	132
3179	3.502291	136	3229	3.509068	135	3279	3.515741	133
3180	3.502427	137	3230	3.509203	134	3280	3.515874	132
3181	3.502564	136	3231	3.509337	134	3281	3.516006	133
3182	3.502700	137	3232	3.509471	135	3282	3.516139	132
3183	3.502837	136	3233	3.509606	134	3283	3.516271	132
3184	3.502973	136	3234	3.509740	134	3284	3.516403	132
3185	3.503109	137	3235	3.509874	135	3285	3.516535	133
3186	3.503246	136	3236	3.510009	134	3286	3.516668	132
3187	3.503382	136	3237	3.510143	134	3287	3.516800	132
3188	3.503518	137	3238	3.510277	134	3288	3.516932	132
3189	3.503655	136	3239	3.510411	134	3289	3.517064	132
3190	3.503791	136	3240	3.510545	134	3290	3.517196	132
3191	3.503927	136	3241	3.510679	134	3291	3.517328	132
3192	3.504063	136	3242	3.510813	134	3292	3.517460	132
3193	3.504199	136	3243	3.510947	134	3293	3.517592	132
3194	3.504335	136	3244	3.511081	134	3294	3.517724	131
3195	3.504471	136	3245	3.511215	134	3295	3.517855	132
3196	3.504607	136	3246	3.511349	133	3296	3.517987	132
3197	3.504743	135	3247	3.511482	134	3297	3.518119	132
3198	3.504878	136	3248	3.511616	134	3298	3.518251	131
3199	3.505014	136	3249	3.511750	134	3299	3.518382	132
3200	3.505150	136	3250	3.511883	133	3300	3.518514	132

Nomb.	α. 55° 0'	Dif.	Nomb.	α. 55° 50'	Dif.	Nomb.	α. 56° 40'	Dif.
	Logarith.			Logarith.			Logarith.	
3300	3.518514	132	3350	3.525045	129	3400	3.531479	128
3301	3.518646	131	3351	3.525174	130	3401	3.531607	127
3302	3.518777	132	3352	3.525304	130	3402	3.531734	128
3303	3.518909	131	3353	3.525434	129	3403	3.531862	128
3304	3.519040	131	3354	3.525563	130	3404	3.531990	127
3305	3.519171	132	3355	3.525693	129	3405	3.532117	128
3306	3.519303	131	3356	3.525822	129	3406	3.532245	127
3307	3.519434	131	3357	3.525951	130	3407	3.532372	128
3308	3.519565	132	3358	3.526081	129	3408	3.532500	127
3309	3.519697	131	3359	3.526210	129	3409	3.532627	127
3310	3.519828	131	3360	3.526339	130	3410	3.532754	128
3311	3.519959	131	3361	3.526469	129	3411	3.532882	127
3312	3.520090	131	3362	3.526598	129	3412	3.533009	127
3313	3.520221	132	3363	3.526727	129	3413	3.533136	128
3314	3.520353	131	3364	3.526856	129	3414	3.533264	127
3315	3.520484	131	3365	3.526985	129	3415	3.533391	127
3316	3.520615	130	3366	3.527114	129	3416	3.533518	127
3317	3.520745	131	3367	3.527243	129	3417	3.533645	127
3318	3.520876	131	3368	3.527372	129	3418	3.533772	127
3319	3.521007	131	3369	3.527501	129	3419	3.533899	127
3320	3.521138	131	3370	3.527630	129	3420	3.534026	127
3321	3.521269	131	3371	3.527759	129	3421	3.534153	127
3322	3.521400	130	3372	3.527888	128	3422	3.534280	127
3323	3.521530	131	3373	3.528016	129	3423	3.534407	127
3324	3.521661	131	3374	3.528145	129	3424	3.534534	127
3325	3.521792	130	3375	3.528274	128	3425	3.534661	126
3326	3.521922	131	3376	3.528402	129	3426	3.534787	127
3327	3.522053	130	3377	3.528531	129	3427	3.534914	127
3328	3.522183	131	3378	3.528660	128	3428	3.535041	126
3329	3.522314	130	3379	3.528788	129	3429	3.535167	127
3330	3.522444	131	3380	3.528917	128	3430	3.535294	127
3331	3.522575	130	3381	3.529045	129	3431	3.535421	126
3332	3.522705	130	3382	3.529174	128	3432	3.535547	127
3333	3.522835	131	3383	3.529302	128	3433	3.535674	127
3334	3.522966	130	3384	3.529430	129	3434	3.535800	126
3335	3.523096	130	3385	3.529559	128	3435	3.535927	126
3336	3.523226	130	3386	3.529687	128	3436	3.536053	127
3337	3.523356	130	3387	3.529815	128	3437	3.536180	127
3338	3.523486	130	3388	3.529943	128	3438	3.536306	126
3339	3.523616	130	3389	3.530072	128	3439	3.536432	126
3340	3.523746	130	3390	3.530200	128	3440	3.536558	127
3341	3.523876	130	3391	3.530328	128	3441	3.536685	126
3342	3.524006	130	3392	3.530456	128	3442	3.536811	126
3343	3.524136	130	3393	3.530584	128	3443	3.536937	126
3344	3.524266	130	3394	3.530712	128	3444	3.537063	126
3345	3.524396	130	3395	3.530840	128	3445	3.537189	126
3346	3.524526	130	3396	3.530968	128	3446	3.537315	126
3347	3.524656	129	3397	3.531096	127	3447	3.537441	126
3348	3.524785	130	3398	3.531223	128	3448	3.537567	126
3349	3.524915	130	3399	3.531351	128	3449	3.537693	126
3350	3.525045	130	3400	3.531479	128	3450	3.537819	126

Nomb.	α. 52' 30"	Dif.	Nomb.	α. 53' 20"	Dif.	Nomb.	α. 54' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
3150	3.498311		3200	3.505150	136	3250	3.511883	134
3151	3.498448	137	3201	3.505286	135	3251	3.512017	134
3152	3.498586	138	3202	3.505421	136	3252	3.512151	133
3153	3.498724	138	3203	3.505557	136	3253	3.512284	134
3154	3.498862	137	3204	3.505693	135	3254	3.512418	133
3155	3.498999	138	3205	3.505828	136	3255	3.512551	133
3156	3.499137	138	3206	3.505964	135	3256	3.512684	134
3157	3.499275	137	3207	3.506099	135	3257	3.512818	133
3158	3.499412	138	3208	3.506234	136	3258	3.512951	133
3159	3.499550	137	3209	3.506370	135	3259	3.513084	134
3160	3.499687	137	3210	3.506505	135	3260	3.513218	133
3161	3.499824	138	3211	3.506640	136	3261	3.513351	133
3162	3.499962	137	3212	3.506776	135	3262	3.513484	133
3163	3.500099	137	3213	3.506911	135	3263	3.513617	133
3164	3.500236	138	3214	3.507046	135	3264	3.513750	133
3165	3.500374	137	3215	3.507181	135	3265	3.513883	133
3166	3.500511	137	3216	3.507316	135	3266	3.514016	133
3167	3.500648	137	3217	3.507451	135	3267	3.514149	133
3168	3.500785	137	3218	3.507586	135	3268	3.514282	133
3169	3.500922	137	3219	3.507721	135	3269	3.514415	133
3170	3.501059	137	3220	3.507856	135	3270	3.514548	132
3171	3.501196	137	3221	3.507991	135	3271	3.514680	133
3172	3.501333	137	3222	3.508126	135	3272	3.514813	133
3173	3.501470	137	3223	3.508260	134	3273	3.514946	133
3174	3.501607	137	3224	3.508395	135	3274	3.515079	132
3175	3.501744	136	3225	3.508530	134	3275	3.515211	133
3176	3.501880	137	3226	3.508664	135	3276	3.515344	132
3177	3.502017	137	3227	3.508799	135	3277	3.515476	133
3178	3.502154	137	3228	3.508934	134	3278	3.515609	132
3179	3.502291	136	3229	3.509068	135	3279	3.515741	133
3180	3.502427	137	3230	3.509203	134	3280	3.515874	132
3181	3.502564	136	3231	3.509337	134	3281	3.516006	133
3182	3.502700	137	3232	3.509471	135	3282	3.516139	132
3183	3.502837	136	3233	3.509606	134	3283	3.516271	132
3184	3.502973	136	3234	3.509740	134	3284	3.516403	132
3185	3.503109	137	3235	3.509874	135	3285	3.516535	133
3186	3.503246	136	3236	3.510009	134	3286	3.516668	132
3187	3.503382	136	3237	3.510143	134	3287	3.516800	132
3188	3.503518	137	3238	3.510277	134	3288	3.516932	132
3189	3.503655	136	3239	3.510411	134	3289	3.517064	132
3190	3.503791	136	3240	3.510545	134	3290	3.517196	132
3191	3.503927	136	3241	3.510679	134	3291	3.517328	132
3192	3.504063	136	3242	3.510813	134	3292	3.517460	132
3193	3.504199	136	3243	3.510947	134	3293	3.517592	132
3194	3.504335	136	3244	3.511081	134	3294	3.517724	131
3195	3.504471	136	3245	3.511215	134	3295	3.517855	132
3196	3.504607	136	3246	3.511349	133	3296	3.517987	132
3197	3.504743	135	3247	3.511482	134	3297	3.518119	132
3198	3.504878	136	3248	3.511616	134	3298	3.518251	131
3199	3.505014	136	3249	3.511750	133	3299	3.518382	132
3200	3.505150	136	3250	3.511883	133	3300	3.518514	132

Nomb.	α. 55' 0"	Dif.	Nomb.	α. 55' 50"	Dif.	Nomb.	α. 56' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
3300	3.518514	132	3350	3.525045	129	3400	3.531479	128
3301	3.518646	131	3351	3.525174	130	3401	3.531607	127
3302	3.518777	132	3352	3.525304	130	3402	3.531734	128
3303	3.518909	131	3353	3.525434	129	3403	3.531862	128
3304	3.519040	131	3354	3.525563	130	3404	3.531990	127
3305	3.519171	132	3355	3.525693	129	3405	3.532117	128
3306	3.519303	131	3356	3.525822	129	3406	3.532245	127
3307	3.519434	131	3357	3.525951	130	3407	3.532372	128
3308	3.519565	132	3358	3.526081	129	3408	3.532500	127
3309	3.519697	131	3359	3.526210	129	3409	3.532627	127
3310	3.519828	131	3360	3.526339	130	3410	3.532754	128
3311	3.519959	131	3361	3.526469	129	3411	3.532882	127
3312	3.520090	131	3362	3.526598	129	3412	3.533009	127
3313	3.520221	132	3363	3.526727	129	3413	3.533136	128
3314	3.520353	131	3364	3.526856	129	3414	3.533264	127
3315	3.520484	131	3365	3.526985	129	3415	3.533391	127
3316	3.520615	130	3366	3.527114	129	3416	3.533518	127
3317	3.520745	131	3367	3.527243	129	3417	3.533645	127
3318	3.520876	131	3368	3.527372	129	3418	3.533772	127
3319	3.521007	131	3369	3.527501	129	3419	3.533899	127
3320	3.521138	131	3370	3.527630	129	3420	3.534026	127
3321	3.521269	131	3371	3.527759	129	3421	3.534153	127
3322	3.521400	130	3372	3.527888	128	3422	3.534280	127
3323	3.521530	131	3373	3.528016	129	3423	3.534407	127
3324	3.521661	131	3374	3.528145	129	3424	3.534534	127
3325	3.521792	130	3375	3.528274	128	3425	3.534661	126
3326	3.521922	131	3376	3.528402	129	3426	3.534787	127
3327	3.522053	130	3377	3.528531	129	3427	3.534914	127
3328	3.522183	131	3378	3.528660	128	3428	3.535041	126
3329	3.522314	130	3379	3.528788	129	3429	3.535167	127
3330	3.522444	131	3380	3.528917	128	3430	3.535294	127
3331	3.522575	130	3381	3.529045	129	3431	3.535421	126
3332	3.522705	130	3382	3.529174	128	3432	3.535547	127
3333	3.522835	131	3383	3.529302	128	3433	3.535674	127
3334	3.522966	130	3384	3.529430	129	3434	3.535800	126
3335	3.523096	130	3385	3.529559	128	3435	3.535927	126
3336	3.523226	130	3386	3.529687	128	3436	3.536053	127
3337	3.523356	130	3387	3.529815	128	3437	3.536180	126
3338	3.523486	130	3388	3.529943	129	3438	3.536306	126
3339	3.523616	130	3389	3.530072	128	3439	3.536432	126
3340	3.523746	130	3390	3.530200	128	3440	3.536558	127
3341	3.523876	130	3391	3.530328	128	3441	3.536685	126
3342	3.524006	130	3392	3.530456	128	3442	3.536811	126
3343	3.524136	130	3393	3.530584	128	3443	3.536937	126
3344	3.524266	130	3394	3.530712	128	3444	3.537063	126
3345	3.524396	130	3395	3.530840	128	3445	3.537189	126
3346	3.524526	130	3396	3.530968	128	3446	3.537315	126
3347	3.524656	130	3397	3.531096	127	3447	3.537441	126
3348	3.524785	130	3398	3.531223	128	3448	3.537567	126
3349	3.524915	130	3399	3.531351	128	3449	3.537693	126
3350	3.525045		3400	3.531479		3450	3.537819	126

Nomb.	o. 57' 30" Logarithh.	Dif.	Nomb.	o. 58 20" Logarithh.	Dif.	Nomb.	o. 59' 10" Logarithh.	DIF.
3450	3.537819	126	3500	3.544068	124	3550	3.550228	123
3451	3.537945	126	3501	3.544192	124	3551	3.550351	122
3452	3.538071	126	3502	3.544316	124	3552	3.550473	122
3453	3.538197	125	3503	3.544440	124	3553	3.550595	122
3454	3.538322	125	3504	3.544564	124	3554	3.550717	123
3455	3.538448	126	3505	3.544688	124	3555	3.550840	122
3456	3.538574	125	3506	3.544812	124	3556	3.550962	122
3457	3.538699	125	3507	3.544936	124	3557	3.551084	122
3458	3.538825	126	3508	3.545060	124	3558	3.551206	122
3459	3.538951	126	3509	3.545183	123	3559	3.551328	122
		125			124			122
3460	3.539076	126	3510	3.545307	124	3560	3.551450	122
3461	3.539202	125	3511	3.545431	124	3561	3.551572	122
3462	3.539327	125	3512	3.545555	123	3562	3.551694	122
3463	3.539452	126	3513	3.545678	124	3563	3.551816	122
3464	3.539578	125	3514	3.545802	123	3564	3.551938	122
3465	3.539703	126	3515	3.545925	124	3565	3.552060	121
3466	3.539829	125	3516	3.546049	123	3566	3.552181	122
3467	3.539954	125	3517	3.546172	124	3567	3.552303	122
3468	3.540079	125	3518	3.546296	123	3568	3.552425	122
3469	3.540204	125	3519	3.546419	124	3569	3.552547	121
		126			123			122
3470	3.540329	125	3520	3.546543	123	3570	3.552668	122
3471	3.540455	125	3521	3.546666	123	3571	3.552790	121
3472	3.540580	125	3522	3.546789	124	3572	3.552911	122
3473	3.540705	125	3523	3.546913	123	3573	3.553033	122
3474	3.540830	125	3524	3.547036	123	3574	3.553155	121
		125			123			122
3475	3.540955	125	3525	3.547159	123	3575	3.553276	122
3476	3.541080	125	3526	3.547282	123	3576	3.553398	121
3477	3.541205	125	3527	3.547405	124	3577	3.553519	121
3478	3.541330	124	3528	3.547529	123	3578	3.553640	122
3479	3.541454	125	3529	3.547652	123	3579	3.553762	121
		125			123			121
3480	3.541579	125	3530	3.547775	123	3580	3.553883	121
3481	3.541704	125	3531	3.547898	123	3581	3.554004	122
3482	3.541829	124	3532	3.548021	123	3582	3.554126	121
3483	3.541953	125	3533	3.548144	123	3583	3.554247	121
3484	3.542078	125	3534	3.548267	122	3584	3.554368	121
		125			122			121
3485	3.542203	124	3535	3.548389	123	3585	3.554489	121
3486	3.542327	125	3536	3.548512	123	3586	3.554610	121
3487	3.542452	124	3537	3.548635	123	3587	3.554731	121
3488	3.542576	124	3538	3.548758	123	3588	3.554852	121
3489	3.542701	124	3539	3.548881	122	3589	3.554973	121
		124			122			121
3490	3.542825	125	3540	3.549003	123	3590	3.555094	121
3491	3.542950	124	3541	3.549126	123	3591	3.555215	121
3492	3.543074	125	3542	3.549249	122	3592	3.555336	121
3493	3.543199	124	3543	3.549371	123	3593	3.555457	121
3494	3.543323	124	3544	3.549494	122	3594	3.555578	121
		124			122			121
3495	3.543447	124	3545	3.549616	123	3595	3.555699	121
3496	3.543571	125	3546	3.549739	122	3596	3.555820	120
3497	3.543696	124	3547	3.549861	123	3597	3.555940	121
3498	3.543820	124	3548	3.549984	122	3598	3.556061	121
3499	3.543944	124	3549	3.550106	122	3599	3.556182	121
3500	3.544068	124	3550	3.550228	122	3600	3.556303	121

I. 0' 0"	Dif.	Nomb.	I. 0' 50"	Dif.	Nomb.	I. 1' 40"	Dif.
Logarith.			Logarith.			Logarith.	
3.556303	120	3650	3.562293	119	3700	3.568202	117
3.556423	121	3651	3.562412	119	3701	3.568319	117
3.556544	120	3652	3.562531	119	3702	3.568436	118
3.556664	121	3653	3.562650	119	3703	3.568554	117
3.556785	120	3654	3.562769	118	3704	3.568671	117
3.556905	121	3655	3.562887	119	3705	3.568788	117
3.557026	120	3656	3.563006	119	3706	3.568905	118
3.557146	121	3657	3.563125	119	3707	3.569023	117
3.557267	120	3658	3.563244	118	3708	3.569140	117
3.557387	120	3659	3.563362	119	3709	3.569257	117
3.557507	120	3660	3.563481	119	3710	3.569374	117
3.557627	121	3661	3.563600	118	3711	3.569491	117
3.557748	120	3662	3.563718	119	3712	3.569608	117
3.557868	120	3663	3.563837	118	3713	3.569725	117
3.557988	120	3664	3.563955	119	3714	3.569842	117
3.558108	120	3665	3.564074	118	3715	3.569959	117
3.558228	121	3666	3.564192	119	3716	3.570076	117
3.558349	120	3667	3.564311	118	3717	3.570193	116
3.558469	120	3668	3.564429	119	3718	3.570309	117
3.558589	120	3669	3.564548	118	3719	3.570426	117
3.558709	120	3670	3.564666	118	3720	3.570543	117
3.558829	119	3671	3.564784	119	3721	3.570660	116
3.558948	120	3672	3.564903	118	3722	3.570776	117
3.559068	120	3673	3.565021	118	3723	3.570893	117
3.559188	120	3674	3.565139	118	3724	3.571010	116
3.559308	120	3675	3.565257	119	3725	3.571126	117
3.559428	120	3676	3.565376	118	3726	3.571243	116
3.559548	119	3677	3.565494	118	3727	3.571359	117
3.559667	120	3678	3.565612	118	3728	3.571476	116
3.559787	120	3679	3.565730	118	3729	3.571592	117
3.559907	119	3680	3.565848	118	3730	3.571709	116
3.560026	120	3681	3.565966	118	3731	3.571825	117
3.560146	119	3682	3.566084	118	3732	3.571942	116
3.560265	120	3683	3.566202	118	3733	3.572058	116
3.560385	119	3684	3.566320	117	3734	3.572174	117
3.560504	120	3685	3.566437	118	3735	3.572291	116
3.560624	119	3686	3.566555	118	3736	3.572407	116
3.560743	120	3687	3.566673	118	3737	3.572523	116
3.560863	119	3688	3.566791	118	3738	3.572639	116
3.560982	119	3689	3.566909	117	3739	3.572755	117
3.561101	120	3690	3.567026	118	3740	3.572872	116
3.561221	119	3691	3.567144	118	3741	3.572988	116
3.561340	119	3692	3.567262	117	3742	3.573104	116
3.561459	119	3693	3.567379	118	3743	3.573220	116
3.561578	120	3694	3.567497	117	3744	3.573336	116
3.561698	119	3695	3.567614	118	3745	3.573452	116
3.561817	119	3696	3.567732	117	3746	3.573568	116
3.561936	119	3697	3.567849	118	3747	3.573684	116
3.562055	119	3698	3.567967	117	3748	3.573800	115
3.562174	119	3699	3.568084	118	3749	3.573915	116
3.562293	119	3700	3.568202	118	3750	3.574031	116

Nomb.	1. 2' 30" Logarith.	Dif.	Nomb.	1. 3' 20" Logarith.	Dif.	Nomb.	1. 4' 10" Logarith.	Dif.
3750	3.574031	116	3800	3.579784	114	3850	3.585461	113
3751	3.574147	116	3801	3.579898	114	3851	3.585574	112
3752	3.574263	116	3802	3.580012	114	3852	3.585686	113
3753	3.574379	115	3803	3.580126	115	3853	3.585799	113
3754	3.574494	116	3804	3.580241	114	3854	3.585912	112
3755	3.574610	116	3805	3.580355	114	3855	3.586024	113
3756	3.574726	115	3806	3.580469	114	3856	3.586137	113
3757	3.574841	116	3807	3.580583	114	3857	3.586250	112
3758	3.574957	115	3808	3.580697	114	3858	3.586362	113
3759	3.575072	116	3809	3.580811	114	3859	3.586475	112
3760	3.575188	115	3810	3.580925	114	3860	3.586587	113
3761	3.575303	116	3811	3.581039	114	3861	3.586700	112
3762	3.575419	115	3812	3.581153	114	3862	3.586812	113
3763	3.575534	116	3813	3.581267	114	3863	3.586925	112
3764	3.575650	115	3814	3.581381	114	3864	3.587037	112
3765	3.575765	115	3815	3.581495	113	3865	3.587149	113
3766	3.575880	116	3816	3.581608	114	3866	3.587262	112
3767	3.575996	115	3817	3.581722	114	3867	3.587374	112
3768	3.576111	115	3818	3.581836	114	3868	3.587486	113
3769	3.576226	115	3819	3.581950	113	3869	3.587599	112
3770	3.576341	116	3820	3.582063	114	3870	3.587711	112
3771	3.576457	115	3821	3.582177	114	3871	3.587823	112
3772	3.576572	115	3822	3.582291	113	3872	3.587935	112
3773	3.576687	115	3823	3.582404	114	3873	3.588047	113
3774	3.576802	115	3824	3.582518	113	3874	3.588160	112
3775	3.576917	115	3825	3.582631	114	3875	3.588272	112
3776	3.577032	115	3826	3.582745	113	3876	3.588384	112
3777	3.577147	115	3827	3.582858	114	3877	3.588496	112
3778	3.577262	115	3828	3.582972	113	3878	3.588608	112
3779	3.577377	115	3829	3.583085	114	3879	3.588720	112
3780	3.577492	115	3830	3.583199	113	3880	3.588832	112
3781	3.577607	115	3831	3.583312	114	3881	3.588944	112
3782	3.577722	114	3832	3.583426	113	3882	3.589056	111
3783	3.577836	115	3833	3.583539	113	3883	3.589167	112
3784	3.577951	115	3834	3.583652	113	3884	3.589279	112
3785	3.578066	115	3835	3.583765	114	3885	3.589391	112
3786	3.578181	114	3836	3.583879	113	3886	3.589503	112
3787	3.578295	115	3837	3.583992	113	3887	3.589615	111
3788	3.578410	115	3838	3.584105	113	3888	3.589726	112
3789	3.578525	114	3839	3.584218	113	3889	3.589838	112
3790	3.578639	115	3840	3.584331	113	3890	3.589950	111
3791	3.578754	114	3841	3.584444	113	3891	3.590061	112
3792	3.578868	115	3842	3.584557	113	3892	3.590173	111
3793	3.578983	114	3843	3.584670	113	3893	3.590284	111
3794	3.579097	115	3844	3.584783	113	3894	3.590396	112
3795	3.579212	114	3845	3.584896	113	3895	3.590507	112
3796	3.579326	115	3846	3.585009	113	3896	3.590619	111
3797	3.579441	114	3847	3.585122	113	3897	3.590730	112
3798	3.579555	114	3848	3.585235	113	3898	3.590842	111
3799	3.579669	115	3849	3.585348	113	3899	3.590953	111
3800	3.579784	115	3850	3.585461	113	3900	3.591065	112

Nomb.	1. 5' 0"	Dif.	Nomb.	1. 5' 50"	Dif.	Nomb.	1. 6' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
3900	3.591065		3950	3.596597	110	4000	3.602060	109
3901	3.591176	111	3951	3.596707	110	4001	3.602169	108
3902	3.591287	112	3952	3.596817	110	4002	3.602277	109
3903	3.591399	111	3953	3.596927	110	4003	3.602386	108
3904	3.591510	111	3954	3.597037	109	4004	3.602494	109
3905	3.591621	111	3955	3.597146	110	4005	3.602603	108
3906	3.591732	111	3956	3.597256	110	4006	3.602711	108
3907	3.591843	112	3957	3.597366	110	4007	3.602819	109
3908	3.591955	111	3958	3.597476	110	4008	3.602928	108
3909	3.592066	111	3959	3.597586	109	4009	3.603036	108
3910	3.592177	111	3960	3.597695	110	4010	3.603144	109
3911	3.592288	111	3961	3.597805	109	4011	3.603253	108
3912	3.592399	111	3962	3.597914	110	4012	3.603361	108
3913	3.592510	111	3963	3.598024	110	4013	3.603469	108
3914	3.592621	111	3964	3.598134	109	4014	3.603577	109
3915	3.592732	111	3965	3.598243	110	4015	3.603686	108
3916	3.592843	111	3966	3.598353	109	4016	3.603794	108
3917	3.592954	110	3967	3.598462	110	4017	3.603902	108
3918	3.593064	111	3968	3.598572	109	4018	3.604010	108
3919	3.593175	111	3969	3.598681	110	4019	3.604118	108
3920	3.593286	111	3970	3.598791	109	4020	3.604226	108
3921	3.593397	111	3971	3.598900	109	4021	3.604334	108
3922	3.593508	110	3972	3.599009	110	4022	3.604442	108
3923	3.593618	111	3973	3.599119	109	4023	3.604550	108
3924	3.593729	111	3974	3.599228	109	4024	3.604658	108
3925	3.593840	110	3975	3.599337	109	4025	3.604766	108
3926	3.593950	111	3976	3.599446	110	4026	3.604874	108
3927	3.594061	110	3977	3.599556	109	4027	3.604982	107
3928	3.594171	111	3978	3.599665	109	4028	3.605089	108
3929	3.594282	111	3979	3.599774	109	4029	3.605197	108
3930	3.594393	110	3980	3.599883	109	4030	3.605305	108
3931	3.594503	111	3981	3.599992	109	4031	3.605413	108
3932	3.594614	111	3982	3.600101	109	4032	3.605521	107
3933	3.594724	110	3983	3.600210	109	4033	3.605628	108
3934	3.594834	111	3984	3.600319	109	4034	3.605736	108
3935	3.594945	110	3985	3.600428	109	4035	3.605844	107
3936	3.595055	110	3986	3.600537	109	4036	3.605951	108
3937	3.595165	111	3987	3.600646	109	4037	3.606059	107
3938	3.595276	110	3988	3.600755	109	4038	3.606166	108
3939	3.595386	110	3989	3.600864	109	4039	3.606274	107
3940	3.595496	110	3990	3.600973	109	4040	3.606381	108
3941	3.595606	111	3991	3.601082	109	4041	3.606489	107
3942	3.595717	110	3992	3.601191	108	4042	3.606596	108
3943	3.595827	110	3993	3.601299	109	4043	3.606704	107
3944	3.595937	110	3994	3.601408	109	4044	3.606811	108
3945	3.596047	110	3995	3.601517	108	4045	3.606919	107
3946	3.596157	110	3996	3.601625	109	4046	3.607026	107
3947	3.596267	110	3997	3.601734	109	4047	3.607133	108
3948	3.596377	110	3998	3.601843	108	4048	3.607241	107
3949	3.596487	110	3999	3.601951	109	4049	3.607348	107
3950	3.596597		4000	3.602060		4050	3.607455	

Nomb.	1. 7' 30" Logarith.	Dif.	Nomb.	1. 8' 20" Logarith.	Dif.	Nomb.	1. 9 11 Logarith.
4050	3.607455		4100	3.612784		4150	3.6180.
4051	3.607562	107	4101	3.612890	106	4151	3.6181!
4052	3.607669	107	4102	3.612996	106	4152	3.6182!
4053	3.607777	108	4103	3.613102	106	4153	3.6183!
4054	3.607884	107	4104	3.613207	105	4154	3.6184!
		107			106		
4055	3.607991	107	4105	3.613313	106	4155	3.6185.
4056	3.608098	107	4106	3.613419	106	4156	3.6186.
4057	3.608205	107	4107	3.613525	106	4157	3.6187!
4058	3.608312	107	4108	3.613630	105	4158	3.6188!
4059	3.608419	107	4109	3.613736	106	4159	3.6189!
		107			106		
4060	3.608526	107	4110	3.613842	105	4160	3.6190.
4061	3.608633	107	4111	3.613947	105	4161	3.6191!
4062	3.608740	107	4112	3.614053	106	4162	3.6193!
4063	3.608847	107	4113	3.614159	106	4163	3.6194!
4064	3.608954	107	4114	3.614264	105	4164	3.6195.
		107			106		
4065	3.609061	106	4115	3.614370	105	4165	3.6196.
4066	3.609167	107	4116	3.614475	105	4166	3.6197.
4067	3.609274	107	4117	3.614581	106	4167	3.6198.
4068	3.609381	107	4118	3.614686	105	4168	3.6199!
4069	3.609488	107	4119	3.614792	106	4169	3.6200.
		106			105		
4070	3.609594	107	4120	3.614897	106	4170	3.6201.
4071	3.609701	107	4121	3.615003	105	4171	3.6202.
4072	3.609808	107	4122	3.615108	105	4172	3.6203.
4073	3.609914	106	4123	3.615213	105	4173	3.6204.
4074	3.610021	107	4124	3.615319	106	4174	3.6205.
		107			105		
4075	3.610128	106	4125	3.615424	105	4175	3.6206.
4076	3.610234	106	4126	3.615529	105	4176	3.6207!
4077	3.610341	107	4127	3.615634	105	4177	3.6208!
4078	3.610447	106	4128	3.615740	106	4178	3.6209!
4079	3.610554	107	4129	3.615845	105	4179	3.6210.
		106			105		
4080	3.610660	107	4130	3.615950	105	4180	3.6211.
4081	3.610767	107	4131	3.616055	105	4181	3.6212!
4082	3.610873	106	4132	3.616160	105	4182	3.6213!
4083	3.610979	106	4133	3.616265	105	4183	3.6214!
4084	3.611086	107	4134	3.616370	105	4184	3.6215.
		106			106		
4085	3.611192	106	4135	3.616476	105	4185	3.6216.
4086	3.611298	106	4136	3.616581	105	4186	3.6217!
4087	3.611405	107	4137	3.616686	105	4187	3.6219.
4088	3.611511	106	4138	3.616790	104	4188	3.6220.
4089	3.611617	106	4139	3.616895	105	4189	3.6221.
		106			105		
4090	3.611723	106	4140	3.617000	105	4190	3.6222.
4091	3.611829	106	4141	3.617105	105	4191	3.6223.
4092	3.611936	107	4142	3.617210	105	4192	3.6224.
4093	3.612042	106	4143	3.617315	105	4193	3.6225.
4094	3.612148	106	4144	3.617420	105	4194	3.6226.
		106			105		
4095	3.612254	106	4145	3.617525	105	4195	3.6227.
4096	3.612360	106	4146	3.617629	104	4196	3.6228.
4097	3.612466	106	4147	3.617734	105	4197	3.6229.
4098	3.612572	106	4148	3.617839	105	4198	3.6230.
4099	3.612678	106	4149	3.617943	104	4199	3.6231.
4100	3.612784	106	4150	3.618048	105	4200	3.6232.

Nomb.	I. 10' 0"	Dif.	Nomb.	I. 10' 50'	Dif.	Nomb.	I. 11' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
4200	3.623249		4250	3.628389		4300	3.633468	
4201	3.623353	104	4251	3.628491	102	4301	3.633569	101
4202	3.623456	103	4252	3.628593	102	4302	3.633670	101
4203	3.623559	103	4253	3.628695	102	4303	3.633771	101
4204	3.623663	104	4254	3.628797	102	4304	3.633872	101
		103			103			101
4205	3.623766	103	4255	3.628900	102	4305	3.633973	101
4206	3.623869	103	4256	3.629002	102	4306	3.634074	101
4207	3.623973	104	4257	3.629104	102	4307	3.634175	101
4208	3.624076	103	4258	3.629206	102	4308	3.634276	101
4209	3.624179	103	4259	3.629308	102	4309	3.634376	100
		103			102			101
4210	3.624282	103	4260	3.629410	102	4310	3.634477	101
4211	3.624385	103	4261	3.629512	102	4311	3.634578	101
4212	3.624488	103	4262	3.629613	101	4312	3.634679	101
4213	3.624591	103	4263	3.629715	102	4313	3.634779	100
4214	3.624695	104	4264	3.629817	102	4314	3.634880	101
		103			102			101
4215	3.624798	103	4265	3.629919	102	4315	3.634981	100
4216	3.624901	103	4266	3.630021	102	4316	3.635081	100
4217	3.625004	103	4267	3.630123	102	4317	3.635182	101
4218	3.625107	103	4268	3.630224	101	4318	3.635283	101
4219	3.625210	103	4269	3.630326	102	4319	3.635383	100
		102			102			101
4220	3.625312	103	4270	3.630428	102	4320	3.635484	100
4221	3.625415	103	4271	3.630530	101	4321	3.635584	101
4222	3.625518	103	4272	3.630631	101	4322	3.635685	101
4223	3.625621	103	4273	3.630733	102	4323	3.635785	100
4224	3.625724	103	4274	3.630835	102	4324	3.635886	101
		103			101			100
4225	3.625827	102	4275	3.630936	101	4325	3.635986	101
4226	3.625929	102	4276	3.631038	102	4326	3.636087	101
4227	3.626032	103	4277	3.631139	102	4327	3.636187	100
4228	3.626135	103	4278	3.631241	101	4328	3.636287	100
4229	3.626238	103	4279	3.631342	101	4329	3.636388	101
		102			102			100
4230	3.626340	103	4280	3.631444	102	4330	3.636488	100
4231	3.626443	103	4281	3.631545	101	4331	3.636588	100
4232	3.626546	103	4282	3.631647	102	4332	3.636688	100
4233	3.626648	102	4283	3.631748	101	4333	3.636789	101
4234	3.626751	103	4284	3.631849	101	4334	3.636889	101
		102			102			100
4235	3.626853	103	4285	3.631951	101	4335	3.636989	100
4236	3.626956	103	4286	3.632052	101	4336	3.637089	100
4237	3.627058	102	4287	3.632153	101	4337	3.637189	100
4238	3.627161	103	4288	3.632255	102	4338	3.637290	101
4239	3.627263	102	4289	3.632356	101	4339	3.637390	100
		103			101			100
4240	3.627366	102	4290	3.632457	102	4340	3.637490	100
4241	3.627468	102	4291	3.632559	101	4341	3.637590	100
4242	3.627571	103	4292	3.632660	101	4342	3.637690	100
4243	3.627673	102	4293	3.632761	101	4343	3.637790	100
4244	3.627775	102	4294	3.632862	101	4344	3.637890	100
		103			101			100
4245	3.627878	102	4295	3.632963	101	4345	3.637990	100
4246	3.627980	102	4296	3.633064	101	4346	3.638090	100
4247	3.628082	102	4297	3.633165	101	4347	3.638190	100
4248	3.628185	103	4298	3.633266	101	4348	3.638290	100
4249	3.628287	102	4299	3.633367	101	4349	3.638389	99
4250	3.628389	102	4300	3.633468	101	4350	3.638489	100

Nomb.	1. 12' 30" Logarith.	Dif.	Nomb.	1. 13' 20" Logarith.	Dif.	Nomb.	1. 14' 10" Logarith.	Dif.
4350	3.638489		4400	3.643453		4450	3.648360	98
4351	3.638589	100	4401	3.643551	98	4451	3.648458	98
4352	3.638689	100	4402	3.643650	99	4452	3.648555	97
4353	3.638789	100	4403	3.643749	99	4453	3.648653	97
4354	3.638888	99	4404	3.643847	98	4454	3.648750	98
4355	3.638988	100	4405	3.643946	99	4455	3.648848	98
4356	3.639088	100	4406	3.644044	98	4456	3.648945	97
4357	3.639188	100	4407	3.644143	99	4457	3.649043	98
4358	3.639287	99	4408	3.644242	99	4458	3.649140	97
4359	3.639387	100	4409	3.644340	98	4459	3.649237	97
4360	3.639486	99	4410	3.644439	99	4460	3.649335	97
4361	3.639586	100	4411	3.644537	98	4461	3.649432	98
4362	3.639686	100	4412	3.644636	99	4462	3.649530	98
4363	3.639785	99	4413	3.644734	98	4463	3.649627	97
4364	3.639885	100	4414	3.644832	98	4464	3.649724	97
4365	3.639984	99	4415	3.644931	99	4465	3.649821	97
4366	3.640084	100	4416	3.645029	98	4466	3.649919	98
4367	3.640183	99	4417	3.645127	98	4467	3.650016	97
4368	3.640283	100	4418	3.645226	99	4468	3.650113	97
4369	3.640382	99	4419	3.645324	98	4469	3.650210	97
4370	3.640481	99	4420	3.645422	98	4470	3.650308	98
4371	3.640581	100	4421	3.645521	99	4471	3.650405	97
4372	3.640680	99	4422	3.645619	98	4472	3.650502	97
4373	3.640779	99	4423	3.645717	98	4473	3.650599	97
4374	3.640879	100	4424	3.645815	98	4474	3.650696	97
4375	3.640978	99	4425	3.645913	98	4475	3.650793	97
4376	3.641077	99	4426	3.646011	98	4476	3.650890	97
4377	3.641177	100	4427	3.646110	99	4477	3.650987	97
4378	3.641276	99	4428	3.646208	98	4478	3.651084	97
4379	3.641375	99	4429	3.646306	98	4479	3.651181	97
4380	3.641474	99	4430	3.646404	98	4480	3.651278	97
4381	3.641573	99	4431	3.646502	98	4481	3.651375	97
4382	3.641672	99	4432	3.646600	98	4482	3.651472	97
4383	3.641771	99	4433	3.646698	98	4483	3.651569	97
4384	3.641871	100	4434	3.646796	98	4484	3.651666	97
4385	3.641970	99	4435	3.646894	98	4485	3.651762	96
4386	3.642069	99	4436	3.646992	98	4486	3.651859	97
4387	3.642168	99	4437	3.647089	97	4487	3.651956	97
4388	3.642267	99	4438	3.647187	98	4488	3.652053	97
4389	3.642366	99	4439	3.647285	98	4489	3.652150	97
4390	3.642465	99	4440	3.647383	98	4490	3.652246	96
4391	3.642563	98	4441	3.647481	98	4491	3.652343	97
4392	3.642662	99	4442	3.647579	98	4492	3.652440	97
4393	3.642761	99	4443	3.647676	97	4493	3.652536	96
4394	3.642860	99	4444	3.647774	98	4494	3.652633	97
4395	3.642959	99	4445	3.647872	98	4495	3.652730	97
4396	3.643058	99	4446	3.647969	97	4496	3.652826	96
4397	3.643156	98	4447	3.648067	98	4497	3.652923	97
4398	3.643255	99	4448	3.648165	98	4498	3.653019	96
4399	3.643354	99	4449	3.648262	97	4499	3.653116	97
4400	3.643453	99	4450	3.648360	98	4500	3.653213	97

Nomb.	1. 15' 0"	Dif.	Nomb.	1. 15' 50"	Dif.	Nomb.	1. 16' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
4500	3.653213		4550	3.658011		4600	3.662758	
4501	3.653309	96	4551	3.658107	96	4601	3.662852	94
4502	3.653405	96	4552	3.658202	95	4602	3.662947	95
4503	3.653502	97	4553	3.658298	96	4603	3.663041	94
4504	3.653598	96	4554	3.658393	95	4604	3.663135	94
4505	3.653695	97	4555	3.658488	95	4605	3.663230	95
4506	3.653791	96	4556	3.658584	96	4606	3.663324	94
4507	3.653888	97	4557	3.658679	95	4607	3.663418	94
4508	3.653984	96	4558	3.658774	95	4608	3.663512	94
4509	3.654080	96	4559	3.658870	96	4609	3.663607	95
4510	3.654177	97	4560	3.658965	95	4610	3.663701	94
4511	3.654273	96	4561	3.659060	95	4611	3.663795	94
4512	3.654369	96	4562	3.659155	95	4612	3.663889	94
4513	3.654465	96	4563	3.659250	95	4613	3.663983	94
4514	3.654562	97	4564	3.659346	96	4614	3.664078	95
4515	3.654658	96	4565	3.659441	95	4615	3.664172	94
4516	3.654754	96	4566	3.659536	95	4616	3.664266	94
4517	3.654850	96	4567	3.659631	95	4617	3.664360	94
4518	3.654946	96	4568	3.659726	95	4618	3.664454	94
4519	3.655042	96	4569	3.659821	95	4619	3.664548	94
4520	3.655138	96	4570	3.659916	95	4620	3.664642	94
4521	3.655235	97	4571	3.660011	95	4621	3.664736	94
4522	3.655331	96	4572	3.660106	95	4622	3.664830	94
4523	3.655427	96	4573	3.660201	95	4623	3.664924	94
4524	3.655523	96	4574	3.660296	95	4624	3.665018	94
4525	3.655619	96	4575	3.660391	95	4625	3.665112	94
4526	3.655715	96	4576	3.660486	95	4626	3.665206	94
4527	3.655810	95	4577	3.660581	95	4627	3.665299	93
4528	3.655906	96	4578	3.660676	95	4628	3.665393	94
4529	3.656002	96	4579	3.660771	95	4629	3.665487	94
4530	3.656098	96	4580	3.660865	94	4630	3.665581	94
4531	3.656194	96	4581	3.660960	95	4631	3.665675	94
4532	3.656290	96	4582	3.661055	95	4632	3.665769	94
4533	3.656386	96	4583	3.661150	95	4633	3.665862	93
4534	3.656482	96	4584	3.661245	95	4634	3.665956	94
4535	3.656577	95	4585	3.661339	94	4635	3.666050	94
4536	3.656673	96	4586	3.661434	95	4636	3.666143	93
4537	3.656769	96	4587	3.661529	95	4637	3.666237	94
4538	3.656864	95	4588	3.661623	94	4638	3.666331	94
4539	3.656960	96	4589	3.661718	95	4639	3.666424	93
4540	3.657056	96	4590	3.661813	95	4640	3.666518	94
4541	3.657152	96	4591	3.661907	94	4641	3.666612	94
4542	3.657247	95	4592	3.662002	95	4642	3.666705	93
4543	3.657343	96	4593	3.662096	94	4643	3.666799	94
4544	3.657438	95	4594	3.662191	95	4644	3.666892	93
4545	3.657534	96	4595	3.662286	95	4645	3.666986	94
4546	3.657629	95	4596	3.662380	94	4646	3.667079	93
4547	3.657725	96	4597	3.662475	95	4647	3.667173	94
4548	3.657820	95	4598	3.662569	94	4648	3.667266	93
4549	3.657916	96	4599	3.662663	94	4649	3.667360	94
4550	3.658011	95	4600	3.662758	95	4650	3.667453	93

Nomb.	1. 17' 30"	Dif.	Nomb.	1. 18' 20"	Dif.	Nomb.	1. 19' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
4650	3.667453		4700	3.672098		4750	3.676694	
4651	3.667546	93	4701	3.672190	92	4751	3.676785	91
4652	3.667640	94	4702	3.672283	93	4752	3.676876	91
4653	3.667733	93	4703	3.672375	92	4753	3.676968	92
4654	3.667826	93	4704	3.672467	92	4754	3.677059	91
		94			93			92
4655	3.667920	93	4705	3.672560	92	4755	3.677151	91
4656	3.668013	93	4706	3.672652	92	4756	3.677242	91
4657	3.668106	93	4707	3.672744	92	4757	3.677333	91
4658	3.668199	93	4708	3.672836	92	4758	3.677424	91
4659	3.668293	94	4709	3.672929	93	4759	3.677516	92
		93			92			91
4660	3.668386	93	4710	3.673021	92	4760	3.677607	91
4661	3.668479	93	4711	3.673113	92	4761	3.677698	91
4662	3.668572	93	4712	3.673205	92	4762	3.677789	91
4663	3.668665	93	4713	3.673297	92	4763	3.677881	92
4664	3.668759	94	4714	3.673390	93	4764	3.677972	91
		93			92			91
4665	3.668852	93	4715	3.673482	92	4765	3.678063	91
4666	3.668945	93	4716	3.673574	92	4766	3.678154	91
4667	3.669038	93	4717	3.673666	92	4767	3.678245	91
4668	3.669131	93	4718	3.673758	92	4768	3.678336	91
4669	3.669224	93	4719	3.673850	92	4769	3.678427	91
		93			92			91
4670	3.669317	93	4720	3.673942	92	4770	3.678518	91
4671	3.669410	93	4721	3.674034	92	4771	3.678609	91
4672	3.669503	93	4722	3.674126	92	4772	3.678700	91
4673	3.669596	93	4723	3.674218	92	4773	3.678791	91
4674	3.669689	93	4724	3.674310	92	4774	3.678882	91
		93			92			91
4675	3.669782	93	4725	3.674402	92	4775	3.678973	91
4676	3.669875	93	4726	3.674494	92	4776	3.679064	91
4677	3.669967	92	4727	3.674586	92	4777	3.679155	91
4678	3.670060	93	4728	3.674677	91	4778	3.679246	91
4679	3.670153	93	4729	3.674769	92	4779	3.679337	91
		93			92			91
4680	3.670246	93	4730	3.674861	92	4780	3.679428	91
4681	3.670339	92	4731	3.674953	92	4781	3.679519	91
4682	3.670431	92	4732	3.675045	92	4782	3.679610	91
4683	3.670524	93	4733	3.675137	92	4783	3.679700	90
4684	3.670617	93	4734	3.675228	91	4784	3.679791	91
		93			92			91
4685	3.670710	92	4735	3.675320	92	4785	3.679882	91
4686	3.670802	92	4736	3.675412	92	4786	3.679973	91
4687	3.670895	93	4737	3.675503	91	4787	3.680063	90
4688	3.670988	93	4738	3.675595	92	4788	3.680154	91
4689	3.671080	92	4739	3.675687	92	4789	3.680245	91
		93			91			91
4690	3.671173	92	4740	3.675778	92	4790	3.680336	91
4691	3.671265	93	4741	3.675870	92	4791	3.680426	90
4692	3.671358	93	4742	3.675962	92	4792	3.680517	91
4693	3.671451	93	4743	3.676053	91	4793	3.680607	90
4694	3.671543	92	4744	3.676145	92	4794	3.680698	91
		93			91			91
4695	3.671636	92	4745	3.676236	92	4795	3.680789	91
4696	3.671728	92	4746	3.676328	92	4796	3.680879	90
4697	3.671821	93	4747	3.676419	91	4797	3.680970	91
4698	3.671913	92	4748	3.676511	92	4798	3.681060	90
4699	3.672005	92	4749	3.676602	91	4799	3.681151	91
4700	3.672098	93	4750	3.676694	92	4800	3.681241	90

Nomb.	I. 20' 0"	Dif.	Nomb.	I. 20' 50"	Dif.	Nomb.	I. 21' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
4800	3.681241	91	4850	3.685742	89	4900	3.690196	89
4801	3.681332	90	4851	3.685831	90	4901	3.690285	88
4802	3.681422	91	4852	3.685921	89	4902	3.690373	89
4803	3.681513	90	4853	3.686010	90	4903	3.690462	88
4804	3.681603	90	4854	3.686100	89	4904	3.690550	89
		90			89			89
4805	3.681693	91	4855	3.686189	90	4905	3.690639	89
4806	3.681784	90	4856	3.686279	89	4906	3.690728	88
4807	3.681874	90	4857	3.686368	90	4907	3.690816	89
4808	3.681964	91	4858	3.686458	89	4908	3.690905	88
4809	3.682055	90	4859	3.686547	89	4909	3.690993	88
		90			89			88
4810	3.682145	90	4860	3.686636	90	4910	3.691081	89
4811	3.682235	91	4861	3.686726	89	4911	3.691170	88
4812	3.682326	90	4862	3.686815	89	4912	3.691258	89
4813	3.682416	90	4863	3.686904	90	4913	3.691347	88
4814	3.682506	90	4864	3.686994	89	4914	3.691435	89
		90			89			88
4815	3.682596	91	4865	3.687083	89	4915	3.691524	88
4816	3.682686	90	4866	3.687172	89	4916	3.691612	88
4817	3.682777	90	4867	3.687261	90	4917	3.691700	89
4818	3.682867	90	4868	3.687351	89	4918	3.691789	88
4819	3.682957	90	4869	3.687440	89	4919	3.691877	88
		90			89			88
4820	3.683047	90	4870	3.687529	89	4920	3.691965	88
4821	3.683137	90	4871	3.687618	89	4921	3.692053	89
4822	3.683227	90	4872	3.687707	89	4922	3.692142	88
4823	3.683317	90	4873	3.687796	90	4923	3.692230	88
4824	3.683407	90	4874	3.687886	89	4924	3.692318	88
		90			89			88
4825	3.683497	90	4875	3.687975	89	4925	3.692406	88
4826	3.683587	90	4876	3.688064	89	4926	3.692494	89
4827	3.683677	90	4877	3.688153	89	4927	3.692583	88
4828	3.683767	90	4878	3.688242	89	4928	3.692671	88
4829	3.683857	90	4879	3.688331	89	4929	3.692759	88
		90			89			88
4830	3.683947	90	4880	3.688420	89	4930	3.692847	88
4831	3.684037	90	4881	3.688509	89	4931	3.692935	88
4832	3.684127	90	4882	3.688598	89	4932	3.693023	88
4833	3.684217	90	4883	3.688687	89	4933	3.693111	88
4834	3.684307	89	4884	3.688776	89	4934	3.693199	88
		89			88			88
4835	3.684396	90	4885	3.688865	88	4935	3.693287	88
4836	3.684486	90	4886	3.688953	89	4936	3.693375	88
4837	3.684576	90	4887	3.689042	89	4937	3.693463	88
4838	3.684666	90	4888	3.689131	89	4938	3.693551	88
4839	3.684756	89	4889	3.689220	89	4939	3.693639	88
		89			89			88
4840	3.684845	90	4890	3.689309	89	4940	3.693727	88
4841	3.684935	90	4891	3.689398	88	4941	3.693815	88
4842	3.685025	89	4892	3.689486	89	4942	3.693903	88
4843	3.685114	90	4893	3.689575	89	4943	3.693991	87
4844	3.685204	90	4894	3.689664	89	4944	3.694078	88
		90			88			88
4845	3.685294	89	4895	3.689753	88	4945	3.694166	88
4846	3.685383	90	4896	3.689841	89	4946	3.694254	88
4847	3.685473	90	4897	3.689930	89	4947	3.694342	88
4848	3.685563	89	4898	3.690019	88	4948	3.694430	87
4849	3.685652	89	4899	3.690107	89	4949	3.694517	88
4850	3.685742	90	4900	3.690196	89	4950	3.694605	88

Nomb.	1. 22' 30" Logarith.	Dif.	Nomb.	1. 23' 20" Logarith.	Dif.	Nomb.	1. 24' 10" Logarith.	Dif.
4950	3.694605	88	5000	3.698970	87	5050	3.703291	86
4951	3.694693	88	5001	3.699057	87	5051	3.703377	86
4952	3.694781	87	5002	3.699144	87	5052	3.703463	86
4953	3.694868	88	5003	3.699231	86	5053	3.703549	86
4954	3.694956	88	5004	3.699317	87	5054	3.703635	86
4955	3.695044	87	5005	3.699404	87	5055	3.703721	86
4956	3.695131	88	5006	3.699491	87	5056	3.703807	86
4957	3.695219	88	5007	3.699578	86	5057	3.703893	86
4958	3.695307	87	5008	3.699664	87	5058	3.703979	86
4959	3.695394	88	5009	3.699751	87	5059	3.704065	86
4960	3.695482	87	5010	3.699838	86	5060	3.704151	85
4961	3.695569	88	5011	3.699924	87	5061	3.704236	86
4962	3.695657	87	5012	3.700011	87	5062	3.704322	86
4963	3.695744	88	5013	3.700098	86	5063	3.704408	86
4964	3.695832	87	5014	3.700184	87	5064	3.704494	85
4965	3.695919	88	5015	3.700271	87	5065	3.704579	86
4966	3.696007	87	5016	3.700358	86	5066	3.704665	86
4967	3.696094	88	5017	3.700444	87	5067	3.704751	86
4968	3.696182	87	5018	3.700531	86	5068	3.704837	85
4969	3.696269	87	5019	3.700617	87	5069	3.704922	86
4970	3.696356	88	5020	3.700704	86	5070	3.705008	86
4971	3.696444	87	5021	3.700790	87	5071	3.705094	85
4972	3.696531	87	5022	3.700877	86	5072	3.705179	86
4973	3.696618	88	5023	3.700963	87	5073	3.705265	85
4974	3.696706	87	5024	3.701050	86	5074	3.705350	86
4975	3.696793	87	5025	3.701136	86	5075	3.705436	86
4976	3.696880	88	5026	3.701222	87	5076	3.705522	85
4977	3.696968	87	5027	3.701309	86	5077	3.705607	86
4978	3.697055	87	5028	3.701395	87	5078	3.705693	85
4979	3.697142	87	5029	3.701482	86	5079	3.705778	86
4980	3.697229	88	5030	3.701568	86	5080	3.705864	85
4981	3.697317	87	5031	3.701654	87	5081	3.705949	86
4982	3.697404	87	5032	3.701741	86	5082	3.706035	85
4983	3.697491	87	5033	3.701827	86	5083	3.706120	86
4984	3.697578	87	5034	3.701913	86	5084	3.706206	85
4985	3.697665	87	5035	3.701999	87	5085	3.706291	85
4986	3.697752	87	5036	3.702086	86	5086	3.706376	86
4987	3.697839	87	5037	3.702172	86	5087	3.706462	85
4988	3.697926	88	5038	3.702258	86	5088	3.706547	85
4989	3.698014	87	5039	3.702344	87	5089	3.706632	86
4990	3.698101	87	5040	3.702431	86	5090	3.706718	85
4991	3.698188	87	5041	3.702517	86	5091	3.706803	85
4992	3.698275	87	5042	3.702603	86	5092	3.706888	86
4993	3.698362	87	5043	3.702689	86	5093	3.706974	85
4994	3.698449	86	5044	3.702775	86	5094	3.707059	85
4995	3.698535	87	5045	3.702861	86	5095	3.707144	85
4996	3.698622	87	5046	3.702947	86	5096	3.707229	86
4997	3.698709	87	5047	3.703033	86	5097	3.707315	85
4998	3.698796	87	5048	3.703119	86	5098	3.707400	85
4999	3.698883	87	5049	3.703205	86	5099	3.707485	85
5000	3.698970	87	5050	3.703291	86	5100	3.707570	85

Nomb.	1. 25' 0"	Dif.	Nomb.	1. 25' 50"	Dif.	Nomb.	1. 26' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
5100	3.707570	85	5150	3.711807	85	5200	3.716003	84
5101	3.707655	85	5151	3.711892	84	5201	3.716087	83
5102	3.707740	86	5152	3.711976	84	5202	3.716170	84
5103	3.707826	85	5153	3.712060	84	5203	3.716254	83
5104	3.707911	85	5154	3.712144	85	5204	3.716337	84
5105	3.707996	85	5155	3.712229	84	5205	3.716421	83
5106	3.708081	85	5156	3.712313	84	5206	3.716504	84
5107	3.708166	85	5157	3.712397	84	5207	3.716588	83
5108	3.708251	85	5158	3.712481	85	5208	3.716671	83
5109	3.708336	85	5159	3.712566	84	5209	3.716754	84
5110	3.708421	85	5160	3.712650	84	5210	3.716838	83
5111	3.708506	85	5161	3.712734	84	5211	3.716921	83
5112	3.708591	85	5162	3.712818	84	5212	3.717004	84
5113	3.708676	85	5163	3.712902	84	5213	3.717088	83
5114	3.708761	85	5164	3.712986	84	5214	3.717171	83
5115	3.708846	85	5165	3.713070	84	5215	3.717254	84
5116	3.708931	84	5166	3.713154	84	5216	3.717338	83
5117	3.709015	85	5167	3.713238	85	5217	3.717421	83
5118	3.709100	85	5168	3.713323	84	5218	3.717504	83
5119	3.709185	85	5169	3.713407	84	5219	3.717587	84
5120	3.709270	85	5170	3.713491	84	5220	3.717671	83
5121	3.709355	85	5171	3.713575	84	5221	3.717754	83
5122	3.709440	84	5172	3.713659	83	5222	3.717837	83
5123	3.709524	85	5173	3.713742	84	5223	3.717920	83
5124	3.709609	85	5174	3.713826	84	5224	3.718003	83
5125	3.709694	85	5175	3.713910	84	5225	3.718086	83
5126	3.709779	84	5176	3.713994	84	5226	3.718169	84
5127	3.709863	85	5177	3.714078	84	5227	3.718253	83
5128	3.709948	85	5178	3.714162	84	5228	3.718336	83
5129	3.710033	84	5179	3.714246	84	5229	3.718419	83
5130	3.710117	85	5180	3.714330	84	5230	3.718502	83
5131	3.710202	85	5181	3.714414	83	5231	3.718585	83
5132	3.710287	84	5182	3.714497	84	5232	3.718668	83
5133	3.710371	85	5183	3.714581	84	5233	3.718751	83
5134	3.710456	84	5184	3.714665	84	5234	3.718834	83
5135	3.710540	85	5185	3.714749	84	5235	3.718917	83
5136	3.710625	85	5186	3.714833	83	5236	3.719000	83
5137	3.710710	84	5187	3.714916	84	5237	3.719083	82
5138	3.710794	85	5188	3.715000	84	5238	3.719165	83
5139	3.710879	84	5189	3.715084	83	5239	3.719248	83
5140	3.710963	85	5190	3.715167	84	5240	3.719331	83
5141	3.711048	84	5191	3.715251	84	5241	3.719414	83
5142	3.711132	85	5192	3.715335	83	5242	3.719497	83
5143	3.711217	84	5193	3.715418	84	5243	3.719580	83
5144	3.711301	84	5194	3.715502	84	5244	3.719663	82
5145	3.711385	85	5195	3.715586	83	5245	3.719745	83
5146	3.711470	84	5196	3.715669	84	5246	3.719828	83
5147	3.711554	85	5197	3.715753	83	5247	3.719911	83
5148	3.711639	84	5198	3.715836	84	5248	3.719994	83
5149	3.711723	84	5199	3.715920	83	5249	3.720077	82
5150	3.711807	84	5200	3.716003	83	5250	3.720159	82

Nomb.	1. 27' 30" Logarith.	Dif.	Nomb.	1. 28' 20" Logarith.	Dif.	Nomb.	1. 29' 10" Logarith.	Dif.
5250	3.720159	83	5300	3.724276	82	5350	3.728354	81
5251	3.720242	83	5301	3.724358	82	5351	3.728435	81
5252	3.720325	82	5302	3.724440	82	5352	3.728516	81
5253	3.720407	83	5303	3.724522	82	5353	3.728597	81
5254	3.720490	83	5304	3.724604	81	5354	3.728678	81
5255	3.720573	82	5305	3.724685	82	5355	3.728759	82
5256	3.720655	83	5306	3.724767	82	5356	3.728841	81
5257	3.720738	83	5307	3.724849	82	5357	3.728922	81
5258	3.720821	82	5308	3.724931	82	5358	3.729003	81
5259	3.720903	83	5309	3.725013	82	5359	3.729084	81
5260	3.720986	82	5310	3.725095	81	5360	3.729165	81
5261	3.721068	83	5311	3.725176	82	5361	3.729246	81
5262	3.721151	82	5312	3.725258	82	5362	3.729327	81
5263	3.721233	83	5313	3.725340	82	5363	3.729408	81
5264	3.721316	82	5314	3.725422	82	5364	3.729489	81
5265	3.721398	83	5315	3.725503	82	5365	3.729570	81
5266	3.721481	82	5316	3.725585	82	5366	3.729651	81
5267	3.721563	83	5317	3.725667	81	5367	3.729732	81
5268	3.721646	82	5318	3.725748	82	5368	3.729813	81
5269	3.721728	83	5319	3.725830	82	5369	3.729893	81
5270	3.721811	82	5320	3.725912	81	5370	3.729974	81
5271	3.721893	82	5321	3.725993	82	5371	3.730055	81
5272	3.721975	83	5322	3.726075	81	5372	3.730136	81
5273	3.722058	82	5323	3.726156	82	5373	3.730217	81
5274	3.722140	82	5324	3.726238	82	5374	3.730298	81
5275	3.722222	83	5325	3.726320	81	5375	3.730378	81
5276	3.722305	82	5326	3.726401	82	5376	3.730459	81
5277	3.722387	82	5327	3.726483	81	5377	3.730540	81
5278	3.722469	83	5328	3.726564	82	5378	3.730621	81
5279	3.722552	82	5329	3.726646	81	5379	3.730702	81
5280	3.722634	82	5330	3.726727	82	5380	3.730782	81
5281	3.722716	83	5331	3.726809	81	5381	3.730863	81
5282	3.722798	82	5332	3.726890	82	5382	3.730944	81
5283	3.722881	82	5333	3.726972	81	5383	3.731024	81
5284	3.722963	82	5334	3.727053	81	5384	3.731105	81
5285	3.723045	82	5335	3.727134	82	5385	3.731186	81
5286	3.723127	82	5336	3.727216	81	5386	3.731266	81
5287	3.723209	83	5337	3.727297	82	5387	3.731347	81
5288	3.723291	82	5338	3.727379	81	5388	3.731428	81
5289	3.723374	82	5339	3.727460	81	5389	3.731508	81
5290	3.723456	82	5340	3.727541	82	5390	3.731589	81
5291	3.723538	82	5341	3.727623	81	5391	3.731669	81
5292	3.723620	82	5342	3.727704	81	5392	3.731750	81
5293	3.723702	82	5343	3.727785	81	5393	3.731830	81
5294	3.723784	82	5344	3.727866	82	5394	3.731911	81
5295	3.723866	82	5345	3.727948	81	5395	3.731991	81
5296	3.723948	82	5346	3.728029	81	5396	3.732072	81
5297	3.724030	82	5347	3.728110	81	5397	3.732152	81
5298	3.724112	82	5348	3.728191	82	5398	3.732233	81
5299	3.724194	82	5349	3.728273	81	5399	3.732313	81
5300	3.724276	82	5350	3.728354	81	5400	3.732394	81

Nomb.	1. 30' 0" Logarith.	Dif.	Nomb.	1. 30' 50" Logarith.	Dif.	Nomb.	1. 31' 40" Logarith.	Dif.
5400	3.732394	80	5450	3.736397	79	5500	3.740363	79
5401	3.732474	81	5451	3.736476	80	5501	3.740442	79
5402	3.732555	80	5452	3.736556	80	5502	3.740521	79
5403	3.732635	80	5453	3.736635	79	5503	3.740600	79
5404	3.732715	80	5454	3.736715	80	5504	3.740678	78
5405	3.732796	81	5455	3.736795	80	5505	3.740757	79
5406	3.732876	80	5456	3.736874	79	5506	3.740836	79
5407	3.732956	80	5457	3.736954	80	5507	3.740915	79
5408	3.733037	81	5458	3.737034	80	5508	3.740994	79
5409	3.733117	80	5459	3.737113	79	5509	3.741073	79
5410	3.733197	80	5460	3.737193	80	5510	3.741152	79
5411	3.733278	81	5461	3.737272	79	5511	3.741230	78
5412	3.733358	80	5462	3.737352	80	5512	3.741309	79
5413	3.733438	80	5463	3.737431	79	5513	3.741388	79
5414	3.733518	80	5464	3.737511	80	5514	3.741467	79
5415	3.733598	81	5465	3.737590	79	5515	3.741546	79
5416	3.733679	80	5466	3.737670	80	5516	3.741624	78
5417	3.733759	80	5467	3.737749	79	5517	3.741703	79
5418	3.733839	80	5468	3.737829	80	5518	3.741782	79
5419	3.733919	80	5469	3.737908	79	5519	3.741860	78
5420	3.733999	81	5470	3.737987	79	5520	3.741939	79
5421	3.734079	80	5471	3.738067	80	5521	3.742018	79
5422	3.734160	81	5472	3.738146	79	5522	3.742096	78
5423	3.734240	80	5473	3.738225	79	5523	3.742175	79
5424	3.734320	80	5474	3.738305	80	5524	3.742254	79
5425	3.734400	80	5475	3.738384	79	5525	3.742332	78
5426	3.734480	80	5476	3.738463	79	5526	3.742411	79
5427	3.734560	80	5477	3.738543	80	5527	3.742489	78
5428	3.734640	80	5478	3.738622	79	5528	3.742568	79
5429	3.734720	80	5479	3.738701	79	5529	3.742647	79
5430	3.734800	81	5480	3.738781	80	5530	3.742725	78
5431	3.734880	80	5481	3.738860	79	5531	3.742804	79
5432	3.734960	80	5482	3.738939	79	5532	3.742882	78
5433	3.735040	80	5483	3.739018	79	5533	3.742961	79
5434	3.735120	80	5484	3.739097	79	5534	3.743039	78
5435	3.735200	81	5485	3.739177	80	5535	3.743118	79
5436	3.735279	79	5486	3.739256	79	5536	3.743196	78
5437	3.735359	80	5487	3.739335	79	5537	3.743275	79
5438	3.735439	80	5488	3.739414	79	5538	3.743353	78
5439	3.735519	80	5489	3.739493	79	5539	3.743431	78
5440	3.735599	80	5490	3.739572	79	5540	3.743510	79
5441	3.735679	80	5491	3.739651	79	5541	3.743588	78
5442	3.735759	80	5492	3.739731	80	5542	3.743667	79
5443	3.735838	79	5493	3.739810	79	5543	3.743745	78
5444	3.735918	80	5494	3.739889	79	5544	3.743823	79
5445	3.735998	80	5495	3.739968	79	5545	3.743902	78
5446	3.736078	80	5496	3.740047	79	5546	3.743980	78
5447	3.736157	79	5497	3.740126	79	5547	3.744058	78
5448	3.736237	80	5498	3.740205	79	5548	3.744136	78
5449	3.736317	80	5499	3.740284	79	5549	3.744215	79
5450	3.736397	80	5500	3.740363	79	5550	3.744293	78

Nomb.	1. 32' 30"	Dif.	Nomb.	1. 33' 20"	Dif.	Nomb.	1. 34' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
5550	3.744293	78	5600	3.748188	78	5650	3.752048	
5551	3.744371	78	5601	3.748266	77	5651	3.752125	77
5552	3.744449	78	5602	3.748343	77	5652	3.752202	77
5553	3.744528	79	5603	3.748421	78	5653	3.752279	77
5554	3.744606	78	5604	3.748498	77	5654	3.752356	77
5555	3.744684	78	5605	3.748576	78	5655	3.752433	77
5556	3.744762	78	5606	3.748653	77	5656	3.752509	76
5557	3.744840	78	5607	3.748731	78	5657	3.752586	77
5558	3.744919	79	5608	3.748808	77	5658	3.752663	77
5559	3.744997	78	5609	3.748885	77	5659	3.752740	77
5560	3.745075	78	5610	3.748963	78	5660	3.752816	76
5561	3.745153	78	5611	3.749040	77	5661	3.752893	77
5562	3.745231	78	5612	3.749118	78	5662	3.752970	77
5563	3.745309	78	5613	3.749195	77	5663	3.753047	77
5564	3.745387	78	5614	3.749272	77	5664	3.753123	76
5565	3.745465	78	5615	3.749350	78	5665	3.753200	77
5566	3.745543	78	5616	3.749427	77	5666	3.753277	77
5567	3.745621	78	5617	3.749504	77	5667	3.753353	77
5568	3.745699	78	5618	3.749582	78	5668	3.753430	77
5569	3.745777	78	5619	3.749659	77	5669	3.753506	76
5570	3.745855	78	5620	3.749736	77	5670	3.753583	77
5571	3.745933	78	5621	3.749814	78	5671	3.753660	77
5572	3.746011	78	5622	3.749891	77	5672	3.753736	76
5573	3.746089	78	5623	3.749968	77	5673	3.753813	77
5574	3.746167	78	5624	3.750045	77	5674	3.753889	76
5575	3.746245	78	5625	3.750123	78	5675	3.753966	77
5576	3.746323	78	5626	3.750200	77	5676	3.754042	76
5577	3.746401	78	5627	3.750277	77	5677	3.754119	77
5578	3.746478	77	5628	3.750354	77	5678	3.754195	76
5579	3.746556	78	5629	3.750431	77	5679	3.754272	77
5580	3.746634	78	5630	3.750508	77	5680	3.754348	76
5581	3.746712	78	5631	3.750586	78	5681	3.754425	77
5582	3.746790	78	5632	3.750663	77	5682	3.754501	76
5583	3.746868	78	5633	3.750740	77	5683	3.754578	77
5584	3.746945	77	5634	3.750817	77	5684	3.754654	76
5585	3.747023	78	5635	3.750894	77	5685	3.754730	76
5586	3.747101	78	5636	3.750971	77	5686	3.754807	77
5587	3.747179	77	5637	3.751048	77	5687	3.754883	77
5588	3.747256	78	5638	3.751125	77	5688	3.754960	76
5589	3.747334	78	5639	3.751202	77	5689	3.755036	76
5590	3.747412	78	5640	3.751279	77	5690	3.755112	76
5591	3.747489	77	5641	3.751356	77	5691	3.755189	77
5592	3.747567	78	5642	3.751433	77	5692	3.755265	76
5593	3.747645	78	5643	3.751510	77	5693	3.755341	76
5594	3.747722	77	5644	3.751587	77	5694	3.755417	77
5595	3.747800	78	5645	3.751664	77	5695	3.755494	76
5596	3.747878	78	5646	3.751741	77	5696	3.755570	76
5597	3.747955	77	5647	3.751818	77	5697	3.755646	76
5598	3.748033	78	5648	3.751895	77	5698	3.755722	76
5599	3.748110	77	5649	3.751972	77	5699	3.755799	77
5600	3.748188	78	5650	3.752048	76	5700	3.755875	76

Nomb.	I. 35' 0"	Dif.	Nomb.	I. 35' 50"	Dif.	Nomb.	I. 36' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
5700	3.755875		5750	3.759668	75	5800	3.763428	
5701	3.755951	76	5751	3.759743	75	5801	3.763503	75
5702	3.756027	76	5752	3.759819	75	5802	3.763578	75
5703	3.756103	76	5753	3.759894	76	5803	3.763653	75
5704	3.756180	77	5754	3.759970	76	5804	3.763727	74
5705	3.756256	76	5755	3.760045	75	5805	3.763802	75
5706	3.756332	76	5756	3.760121	76	5806	3.763877	75
5707	3.756408	76	5757	3.760196	75	5807	3.763952	75
5708	3.756484	76	5758	3.760272	76	5808	3.764027	75
5709	3.756560	76	5759	3.760347	75	5809	3.764101	74
5710	3.756636	76	5760	3.760422	75	5810	3.764176	75
5711	3.756712	76	5761	3.760498	76	5811	3.764251	75
5712	3.756788	76	5762	3.760573	75	5812	3.764326	75
5713	3.756864	76	5763	3.760649	76	5813	3.764400	74
5714	3.756940	76	5764	3.760724	75	5814	3.764475	75
5715	3.757016	76	5765	3.760799	75	5815	3.764550	75
5716	3.757092	76	5766	3.760875	76	5816	3.764624	74
5717	3.757168	76	5767	3.760950	75	5817	3.764699	75
5718	3.757244	76	5768	3.761025	75	5818	3.764774	75
5719	3.757320	76	5769	3.761101	76	5819	3.764848	74
5720	3.757396	76	5770	3.761176	75	5820	3.764923	75
5721	3.757472	76	5771	3.761251	75	5821	3.764998	75
5722	3.757548	76	5772	3.761326	76	5822	3.765072	74
5723	3.757624	76	5773	3.761402	75	5823	3.765147	75
5724	3.757700	75	5774	3.761477	75	5824	3.765221	74
5725	3.757775	76	5775	3.761552	75	5825	3.765296	75
5726	3.757851	76	5776	3.761627	75	5826	3.765370	74
5727	3.757927	76	5777	3.761702	76	5827	3.765445	75
5728	3.758003	76	5778	3.761778	75	5828	3.765520	75
5729	3.758079	76	5779	3.761853	75	5829	3.765594	74
5730	3.758155	75	5780	3.761928	75	5830	3.765669	75
5731	3.758230	76	5781	3.762003	75	5831	3.765743	74
5732	3.758306	76	5782	3.762078	75	5832	3.765818	75
5733	3.758382	76	5783	3.762153	75	5833	3.765892	74
5734	3.758458	75	5784	3.762228	75	5834	3.765966	74
5735	3.758533	76	5785	3.762303	75	5835	3.766041	75
5736	3.758609	76	5786	3.762378	75	5836	3.766115	74
5737	3.758685	76	5787	3.762453	75	5837	3.766190	75
5738	3.758761	76	5788	3.762529	76	5838	3.766264	74
5739	3.758836	75	5789	3.762604	75	5839	3.766338	74
5740	3.758912	76	5790	3.762679	75	5840	3.766413	75
5741	3.758988	76	5791	3.762754	75	5841	3.766487	74
5742	3.759063	75	5792	3.762829	75	5842	3.766562	75
5743	3.759139	76	5793	3.762904	75	5843	3.766636	74
5744	3.759214	75	5794	3.762978	74	5844	3.766710	74
5745	3.759290	76	5795	3.763053	75	5845	3.766785	75
5746	3.759366	76	5796	3.763128	75	5846	3.766859	74
5747	3.759441	75	5797	3.763203	75	5847	3.766933	74
5748	3.759517	76	5798	3.763278	75	5848	3.767007	74
5749	3.759592	75	5799	3.763353	75	5849	3.767082	75
5750	3.759668	76	5800	3.763428	75	5850	3.767156	74

Nomb.	1. 37' 30" Logarith.	Dif.	Nomb.	1. 38' 20" Logarith.	Dif.	Nomb.	1. 39' 10" Logarith.	Dif.
5850	3.767156		5900	3.770852		5950	3.774517	
5851	3.767230	74	5901	3.770926	74	5951	3.774590	73
5852	3.767304	74	5902	3.770999	73	5952	3.774663	73
5853	3.767379	75	5903	3.771073	74	5953	3.774736	73
5854	3.767453	74	5904	3.771146	73	5954	3.774809	73
		74			74			73
5855	3.767527	74	5905	3.771220	73	5955	3.774882	73
5856	3.767601	74	5906	3.771293	74	5956	3.774955	73
5857	3.767675	74	5907	3.771367	74	5957	3.775028	73
5858	3.767749	74	5908	3.771440	73	5958	3.775100	72
5859	3.767823	74	5909	3.771514	74	5959	3.775173	73
		75			73			73
5860	3.767898	74	5910	3.771587	74	5960	3.775246	73
5861	3.767972	74	5911	3.771661	74	5961	3.775319	73
5862	3.768046	74	5912	3.771734	73	5962	3.775392	73
5863	3.768120	74	5913	3.771808	74	5963	3.775465	73
5864	3.768194	74	5914	3.771881	73	5964	3.775538	73
		74			74			72
5865	3.768268	74	5915	3.771955	73	5965	3.775610	73
5866	3.768342	74	5916	3.772028	73	5966	3.775683	73
5867	3.768416	74	5917	3.772102	74	5967	3.775756	73
5868	3.768490	74	5918	3.772175	73	5968	3.775829	73
5869	3.768564	74	5919	3.772248	73	5969	3.775902	73
		74			74			72
5870	3.768638	74	5920	3.772322	73	5970	3.775974	73
5871	3.768712	74	5921	3.772395	73	5971	3.776047	73
5872	3.768786	74	5922	3.772468	73	5972	3.776120	73
5873	3.768860	74	5923	3.772542	74	5973	3.776193	73
5874	3.768934	74	5924	3.772615	73	5974	3.776265	72
		74			73			73
5875	3.769008	74	5925	3.772688	74	5975	3.776338	73
5876	3.769082	74	5926	3.772762	74	5976	3.776411	73
5877	3.769156	74	5927	3.772835	73	5977	3.776483	72
5878	3.769230	74	5928	3.772908	73	5978	3.776556	73
5879	3.769303	73	5929	3.772981	73	5979	3.776629	73
		74			74			72
5880	3.769377	74	5930	3.773055	73	5980	3.776701	73
5881	3.769451	74	5931	3.773128	73	5981	3.776774	72
5882	3.769525	74	5932	3.773201	73	5982	3.776846	72
5883	3.769599	74	5933	3.773274	73	5983	3.776919	73
5884	3.769673	74	5934	3.773348	74	5984	3.776992	73
		73			73			72
5885	3.769746	74	5935	3.773421	73	5985	3.777064	73
5886	3.769820	74	5936	3.773494	73	5986	3.777137	72
5887	3.769894	74	5937	3.773567	73	5987	3.777209	72
5888	3.769968	74	5938	3.773640	73	5988	3.777282	73
5889	3.770042	74	5939	3.773713	73	5989	3.777354	72
		73			73			73
5890	3.770115	74	5940	3.773786	74	5990	3.777427	72
5891	3.770189	74	5941	3.773860	74	5991	3.777499	73
5892	3.770263	74	5942	3.773933	73	5992	3.777572	72
5893	3.770336	73	5943	3.774006	73	5993	3.777644	72
5894	3.770410	74	5944	3.774079	73	5994	3.777717	73
		74			73			72
5895	3.770484	73	5945	3.774152	73	5995	3.777789	72
5896	3.770557	73	5946	3.774225	73	5996	3.777862	73
5897	3.770631	74	5947	3.774298	73	5997	3.777934	72
5898	3.770705	74	5948	3.774371	73	5998	3.778006	72
5899	3.770778	73	5949	3.774444	73	5999	3.778079	73
5900	3.770852	74	5950	3.774517	73	6000	3.778151	72

Nomb.	I. 40' 0"	Dif.	Nomb.	I. 40' 50"	Dif.	Nomb.	I. 41' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
6000	3.778151		6050	3.781755		6100	3.785330	
6001	3.778224	73	6051	3.781827	72	6101	3.785401	71
6002	3.778296	72	6052	3.781899	72	6102	3.785472	71
6003	3.778368	72	6053	3.781971	72	6103	3.785543	71
6004	3.778441	73	6054	3.782042	71	6104	3.785615	72
6005	3.778513	72	6055	3.782114	72	6105	3.785686	71
6006	3.778585	72	6056	3.782186	72	6106	3.785757	71
6007	3.778658	73	6057	3.782258	72	6107	3.785828	71
6008	3.778730	72	6058	3.782329	71	6108	3.785899	71
6009	3.778802	72	6059	3.782401	72	6109	3.785970	71
6010	3.778874	72	6060	3.782473	72	6110	3.786041	71
6011	3.778947	73	6061	3.782544	71	6111	3.786112	71
6012	3.779019	72	6062	3.782616	72	6112	3.786183	71
6013	3.779091	72	6063	3.782688	72	6113	3.786254	71
6014	3.779163	72	6064	3.782759	71	6114	3.786325	71
6015	3.779236	73	6065	3.782831	72	6115	3.786396	71
6016	3.779308	72	6066	3.782902	71	6116	3.786467	71
6017	3.779380	72	6067	3.782974	72	6117	3.786538	71
6018	3.779452	72	6068	3.783046	72	6118	3.786609	71
6019	3.779524	72	6069	3.783117	71	6119	3.786680	71
6020	3.779596	72	6070	3.783189	72	6120	3.786751	71
6021	3.779669	73	6071	3.783260	71	6121	3.786822	71
6022	3.779741	72	6072	3.783332	72	6122	3.786893	71
6023	3.779813	72	6073	3.783403	71	6123	3.786964	71
6024	3.779885	72	6074	3.783475	72	6124	3.787035	71
6025	3.779957	72	6075	3.783546	71	6125	3.787106	71
6026	3.780029	72	6076	3.783618	72	6126	3.787177	71
6027	3.780101	72	6077	3.783689	71	6127	3.787248	71
6028	3.780173	72	6078	3.783761	72	6128	3.787319	71
6029	3.780245	72	6079	3.783832	71	6129	3.787390	71
6030	3.780317	72	6080	3.783904	72	6130	3.787460	70
6031	3.780389	72	6081	3.783975	71	6131	3.787531	71
6032	3.780461	72	6082	3.784046	71	6132	3.787602	71
6033	3.780533	72	6083	3.784118	72	6133	3.787673	71
6034	3.780605	72	6084	3.784189	71	6134	3.787744	71
6035	3.780677	72	6085	3.784261	72	6135	3.787815	71
6036	3.780749	72	6086	3.784332	71	6136	3.787885	70
6037	3.780821	72	6087	3.784403	71	6137	3.787956	71
6038	3.780893	72	6088	3.784475	72	6138	3.788027	71
6039	3.780965	72	6089	3.784546	71	6139	3.788098	71
6040	3.781037	72	6090	3.784617	71	6140	3.788168	70
6041	3.781109	72	6091	3.784689	72	6141	3.788239	71
6042	3.781181	72	6092	3.784760	71	6142	3.788310	71
6043	3.781253	72	6093	3.784831	71	6143	3.788381	71
6044	3.781324	71	6094	3.784902	71	6144	3.788451	70
6045	3.781396	72	6095	3.784974	72	6145	3.788522	71
6046	3.781468	72	6096	3.785045	71	6146	3.788593	71
6047	3.781540	72	6097	3.785116	71	6147	3.788663	70
6048	3.781612	72	6098	3.785187	71	6148	3.788734	71
6049	3.781684	72	6099	3.785259	72	6149	3.788804	70
6050	3.781755	71	6100	3.785330	71	6150	3.788875	71

Nomb.	1. 42' 30" Logarith.	Dif.	Nomb.	1. 43' 20" Logarith.	Dif.	Nomb.	1. 44' 10" Logarith.	Dif.
6150	3.788875	71	6200	3.792392	70	6250	3.795880	69
6151	3.788946	70	6201	3.792462	70	6251	3.795949	70
6152	3.789016	71	6202	3.792532	70	6252	3.796019	69
6153	3.789087	70	6203	3.792602	70	6253	3.796088	70
6154	3.789157	71	6204	3.792672	70	6254	3.796158	69
6155	3.789228	71	6205	3.792742	70	6255	3.796227	70
6156	3.789299	70	6206	3.792812	70	6256	3.796297	69
6157	3.789369	71	6207	3.792882	70	6257	3.796366	70
6158	3.789440	70	6208	3.792952	70	6258	3.796436	69
6159	3.789510	71	6209	3.793022	70	6259	3.796505	70
6160	3.789581	70	6210	3.793092	70	6260	3.796574	69
6161	3.789651	71	6211	3.793162	69	6261	3.796644	69
6162	3.789722	70	6212	3.793231	70	6262	3.796713	69
6163	3.789792	71	6213	3.793301	70	6263	3.796782	70
6164	3.789863	70	6214	3.793371	70	6264	3.796852	69
6165	3.789933	71	6215	3.793441	70	6265	3.796921	69
6166	3.790004	70	6216	3.793511	70	6266	3.796990	70
6167	3.790074	71	6217	3.793581	70	6267	3.797060	69
6168	3.790144	70	6218	3.793651	70	6268	3.797129	69
6169	3.790215	71	6219	3.793721	69	6269	3.797198	70
6170	3.790285	70	6220	3.793790	70	6270	3.797268	69
6171	3.790356	71	6221	3.793860	70	6271	3.797337	69
6172	3.790426	70	6222	3.793930	70	6272	3.797406	69
6173	3.790496	71	6223	3.794000	70	6273	3.797475	70
6174	3.790567	70	6224	3.794070	69	6274	3.797545	69
6175	3.790637	71	6225	3.794139	70	6275	3.797614	69
6176	3.790707	70	6226	3.794209	70	6276	3.797683	69
6177	3.790778	71	6227	3.794279	70	6277	3.797752	69
6178	3.790848	70	6228	3.794349	69	6278	3.797821	69
6179	3.790918	71	6229	3.794418	70	6279	3.797890	70
6180	3.790988	70	6230	3.794488	70	6280	3.797960	69
6181	3.791059	71	6231	3.794558	69	6281	3.798029	69
6182	3.791129	70	6232	3.794627	70	6282	3.798098	69
6183	3.791199	71	6233	3.794697	70	6283	3.798167	69
6184	3.791269	70	6234	3.794767	69	6284	3.798236	69
6185	3.791340	71	6235	3.794836	70	6285	3.798305	69
6186	3.791410	70	6236	3.794906	70	6286	3.798374	69
6187	3.791480	71	6237	3.794976	69	6287	3.798443	70
6188	3.791550	70	6238	3.795045	70	6288	3.798513	69
6189	3.791620	71	6239	3.795115	70	6289	3.798582	69
6190	3.791691	70	6240	3.795185	69	6290	3.798651	69
6191	3.791761	71	6241	3.795254	70	6291	3.798720	69
6192	3.791831	70	6242	3.795324	69	6292	3.798789	69
6193	3.791901	71	6243	3.795393	70	6293	3.798858	69
6194	3.791971	70	6244	3.795463	69	6294	3.798927	69
6195	3.792041	71	6245	3.795532	70	6295	3.798996	69
6196	3.792111	70	6246	3.795602	70	6296	3.799065	69
6197	3.792181	71	6247	3.795672	69	6297	3.799134	69
6198	3.792252	70	6248	3.795741	70	6298	3.799203	69
6199	3.792322	71	6249	3.795811	69	6299	3.799272	69
6200	3.792392	70	6250	3.795880	69	6300	3.799341	69

Nomb.	1. 45° 0' Logarith.	Dif.	Nomb.	1. 45° 50' Logarith.	Dif.	Nomb.	1. 46° 40' Logarith.	Dif.
6300	3.799341	68	6350	3.802774	68	6400	3.806180	68
6301	3.799409	69	6351	3.802842	68	6401	3.806248	68
6302	3.799478	69	6352	3.802910	69	6402	3.806316	68
6303	3.799547	69	6353	3.802979	68	6403	3.806384	67
6304	3.799616	69	6354	3.803047	69	6404	3.806451	68
6305	3.799685	69	6355	3.803116	68	6405	3.806519	68
6306	3.799754	69	6356	3.803184	68	6406	3.806587	68
6307	3.799823	69	6357	3.803252	69	6407	3.806655	68
6308	3.799892	69	6358	3.803321	68	6408	3.806723	68
6309	3.799961	68	6359	3.803389	68	6409	3.806790	68
6310	3.800029	69	6360	3.803457	68	6410	3.806858	68
6311	3.800098	69	6361	3.803525	69	6411	3.806926	68
6312	3.800167	69	6362	3.803594	68	6412	3.806994	67
6313	3.800236	69	6363	3.803662	68	6413	3.807061	68
6314	3.800305	68	6364	3.803730	68	6414	3.807129	68
6315	3.800373	69	6365	3.803798	69	6415	3.807197	67
6316	3.800442	69	6366	3.803867	68	6416	3.807264	68
6317	3.800511	69	6367	3.803935	68	6417	3.807332	68
6318	3.800580	68	6368	3.804003	68	6418	3.807400	67
6319	3.800648	69	6369	3.804071	68	6419	3.807467	68
6320	3.800717	69	6370	3.804139	69	6420	3.807535	68
6321	3.800786	68	6371	3.804208	68	6421	3.807603	67
6322	3.800854	69	6372	3.804276	68	6422	3.807670	68
6323	3.800923	69	6373	3.804344	68	6423	3.807738	68
6324	3.800992	69	6374	3.804412	68	6424	3.807806	67
6325	3.801061	68	6375	3.804480	68	6425	3.807873	68
6326	3.801129	69	6376	3.804548	68	6426	3.807941	67
6327	3.801198	68	6377	3.804616	69	6427	3.808008	68
6328	3.801266	69	6378	3.804685	68	6428	3.808076	67
6329	3.801335	69	6379	3.804753	68	6429	3.808143	68
6330	3.801404	68	6380	3.804821	68	6430	3.808211	68
6331	3.801472	69	6381	3.804889	68	6431	3.808279	67
6332	3.801541	68	6382	3.804957	68	6432	3.808346	68
6333	3.801609	69	6383	3.805025	68	6433	3.808414	67
6334	3.801678	69	6384	3.805093	68	6434	3.808481	68
6335	3.801747	68	6385	3.805161	68	6435	3.808549	67
6336	3.801815	69	6386	3.805229	68	6436	3.808616	68
6337	3.801884	68	6387	3.805297	68	6437	3.808684	67
6338	3.801952	69	6388	3.805365	68	6438	3.808751	67
6339	3.802021	68	6389	3.805433	68	6439	3.808818	68
6340	3.802089	69	6390	3.805501	68	6440	3.808886	67
6341	3.802158	68	6391	3.805569	68	6441	3.808953	68
6342	3.802226	69	6392	3.805637	68	6442	3.809021	67
6343	3.802295	68	6393	3.805705	68	6443	3.809088	68
6344	3.802363	69	6394	3.805773	68	6444	3.809156	67
6345	3.802432	68	6395	3.805841	67	6445	3.809223	67
6346	3.802500	68	6396	3.805908	68	6446	3.809290	68
6347	3.802568	69	6397	3.805976	68	6447	3.809358	67
6348	3.802637	68	6398	3.806044	68	6448	3.809425	67
6349	3.802705	69	6399	3.806112	68	6449	3.809492	68
6350	3.802774	68	6400	3.806180	68	6450	3.809560	68

Nomb.	1. 47' 30"	Dif.	Nomb.	1. 48' 20"	Dif.	Nomb.	1. 49' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
6450	3.809560		6500	3.812913		6550	3.816241	
6451	3.809627	67	6501	3.812980	67	6551	3.816308	67
6452	3.809694	67	6502	3.813047	67	6552	3.816374	66
6453	3.809762	68	6503	3.813114	67	6553	3.816440	66
6454	3.809829	67	6504	3.813181	67	6554	3.816506	66
6455	3.809896	67	6505	3.813247	66	6555	3.816573	67
6456	3.809964	68	6506	3.813314	67	6556	3.816639	66
6457	3.810031	67	6507	3.813381	67	6557	3.816705	66
6458	3.810098	67	6508	3.813448	67	6558	3.816771	66
6459	3.810165	67	6509	3.813514	66	6559	3.816838	67
6460	3.810233	68	6510	3.813581	67	6560	3.816904	66
6461	3.810300	67	6511	3.813648	67	6561	3.816970	66
6462	3.810367	67	6512	3.813714	66	6562	3.817036	66
6463	3.810434	67	6513	3.813781	67	6563	3.817102	66
6464	3.810501	67	6514	3.813848	67	6564	3.817169	67
6465	3.810569	68	6515	3.813914	66	6565	3.817235	66
6466	3.810636	67	6516	3.813981	67	6566	3.817301	66
6467	3.810703	67	6517	3.814048	67	6567	3.817367	66
6468	3.810770	67	6518	3.814114	66	6568	3.817433	66
6469	3.810837	67	6519	3.814181	67	6569	3.817499	66
6470	3.810904	67	6520	3.814248	67	6570	3.817565	66
6471	3.810971	68	6521	3.814314	66	6571	3.817631	66
6472	3.811039	67	6522	3.814381	67	6572	3.817698	67
6473	3.811106	67	6523	3.814447	66	6573	3.817764	66
6474	3.811173	67	6524	3.814514	67	6574	3.817830	66
6475	3.811240	67	6525	3.814581	67	6575	3.817896	66
6476	3.811307	67	6526	3.814647	66	6576	3.817962	66
6477	3.811374	67	6527	3.814714	67	6577	3.818028	66
6478	3.811441	67	6528	3.814780	66	6578	3.818094	66
6479	3.811508	67	6529	3.814847	67	6579	3.818160	66
6480	3.811575	67	6530	3.814913	66	6580	3.818226	66
6481	3.411642	67	6531	3.814980	67	6581	3.818292	66
6482	3.811709	67	6532	3.815046	66	6582	3.818358	66
6483	3.811776	67	6533	3.815113	67	6583	3.818424	66
6484	3.811843	67	6534	3.815179	66	6584	3.818490	66
6485	3.811910	67	6535	3.815246	67	6585	3.818556	66
6486	3.811977	67	6536	3.815312	66	6586	3.818622	66
6487	3.812044	67	6537	3.815378	66	6587	3.818688	66
6488	3.812111	67	6538	3.815445	67	6588	3.818754	66
6489	3.812178	67	6539	3.815511	66	6589	3.818820	66
6490	3.812245	67	6540	3.815578	67	6590	3.818885	65
6491	3.812312	67	6541	3.815644	66	6591	3.818951	66
6492	3.812379	67	6542	3.815711	67	6592	3.819017	66
6493	3.812445	66	6543	3.815777	66	6593	3.819083	66
6494	3.812512	67	6544	3.815843	66	6594	3.819149	66
6495	3.812579	67	6545	3.815910	67	6595	3.819215	66
6496	3.812646	67	6546	3.815976	66	6596	3.819281	66
6497	3.812713	67	6547	3.816042	66	6597	3.819346	65
6498	3.812780	67	6548	3.816109	67	6598	3.8194	66
6499	3.812847	67	6549	3.816175	66	6599	3.8194	66
6500	3.812913	66	6550	3.816241	66	6600	3.8195	66

Nomb.	1. 50 0'	Dif.	Nomb.	1. 50' 50"	Dif.	Nomb.	1. 51' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
6600	3.819544	66	6650	3.822822	65	6700	3.826075	65
6601	3.819610	66	6651	3.822887	65	6701	3.826140	64
6602	3.819676	65	6652	3.822952	66	6702	3.826204	65
6603	3.819741	66	6653	3.823018	65	6703	3.826269	65
6604	3.819807	66	6654	3.823083	65	6704	3.826334	65
6605	3.819873	66	6655	3.823148	65	6705	3.826399	65
6606	3.819939	65	6656	3.823213	66	6706	3.826464	64
6607	3.820004	66	6657	3.823279	65	6707	3.826528	65
6608	3.820070	66	6658	3.823344	65	6708	3.826593	65
6609	3.820136	65	6659	3.823409	65	6709	3.826658	65
6610	3.820201	66	6660	3.823474	65	6710	3.826723	64
6611	3.820267	66	6661	3.823539	66	6711	3.826788	65
6612	3.820333	66	6662	3.823605	65	6712	3.826852	65
6613	3.820399	65	6663	3.823670	65	6713	3.826917	64
6614	3.820464	66	6664	3.823735	65	6714	3.826981	65
6615	3.820530	65	6665	3.823800	65	6715	3.827046	65
6616	3.820595	66	6666	3.823865	65	6716	3.827111	64
6617	3.820661	66	6667	3.823930	66	6717	3.827175	65
6618	3.820727	65	6668	3.823996	66	6718	3.827240	65
6619	3.820792	66	6669	3.824061	65	6719	3.827305	64
6620	3.820858	66	6670	3.824126	65	6720	3.827369	65
6621	3.820924	65	6671	3.824191	65	6721	3.827434	65
6622	3.820989	66	6672	3.824256	65	6722	3.827499	64
6623	3.821055	65	6673	3.824321	65	6723	3.827563	65
6624	3.821120	66	6674	3.824386	65	6724	3.827628	64
6625	3.821186	65	6675	3.824451	65	6725	3.827692	65
6626	3.821251	66	6676	3.824516	65	6726	3.827757	64
6627	3.821317	65	6677	3.824581	65	6727	3.827821	65
6628	3.821382	66	6678	3.824646	65	6728	3.827886	65
6629	3.821448	66	6679	3.824711	65	6729	3.827951	64
6630	3.821514	65	6680	3.824776	65	6730	3.828015	65
6631	3.821579	66	6681	3.824841	65	6731	3.828080	64
6632	3.821645	65	6682	3.824906	65	6732	3.828144	65
6633	3.821710	65	6683	3.824971	65	6733	3.828209	64
6634	3.821775	66	6684	3.825036	65	6734	3.828273	65
6635	3.821841	65	6685	3.825101	65	6735	3.828338	64
6636	3.821906	66	6686	3.825166	65	6736	3.828402	65
6637	3.821972	65	6687	3.825231	65	6737	3.828467	64
6638	3.822037	66	6688	3.825296	65	6738	3.828531	64
6639	3.822103	66	6689	3.825361	65	6739	3.828595	65
6640	3.822168	65	6690	3.825426	65	6740	3.828660	64
6641	3.822233	66	6691	3.825491	65	6741	3.828724	65
6642	3.822299	65	6692	3.825556	65	6742	3.828789	64
6643	3.822364	66	6693	3.825621	65	6743	3.828853	65
6644	3.822430	65	6694	3.825686	65	6744	3.828918	64
6645	3.822495	65	6695	3.825751	64	6745	3.828982	64
6646	3.822560	66	6696	3.825815	65	6746	3.829046	65
6647	3.822626	65	6697	3.825880	65	6747	3.829111	64
6648	3.822691	65	6698	3.825945	65	6748	3.829175	64
6649	3.822756	66	6699	3.826010	65	6749	3.829239	65
6650	3.822822	66	6700	3.826075	65	6750	3.829304	65

Numb.	1. 52' 30"	Dif.	Numb.	1. 53' 20"	Dif.	Numb.	1. 54' 10"	Dif.
	Logarithm.			Logarithm.			Logarithm.	
6750	3.829304		6800	3.832509		6850	3.835691	61
6751	3.829368	64	6801	3.832573	64	6851	3.835754	61
6752	3.829432	64	6802	3.832637	64	6852	3.835817	61
6753	3.829497	65	6803	3.832700	63	6853	3.835881	61
6754	3.829561	64	6804	3.832764	64	6854	3.835944	61
		64			64			61
6755	3.829625	65	6805	3.832828	64	6855	3.836007	61
6756	3.829690	64	6806	3.832892	64	6856	3.836071	61
6757	3.829754	64	6807	3.832956	64	6857	3.836134	61
6758	3.829818	64	6808	3.833020	64	6858	3.836197	61
6759	3.829882	64	6809	3.833083	63	6859	3.836261	61
		65			64			61
6760	3.829947	64	6810	3.833147	64	6860	3.836324	61
6761	3.830011	64	6811	3.833211	64	6861	3.836387	61
6762	3.830075	64	6812	3.833275	64	6862	3.836451	61
6763	3.830139	64	6813	3.833338	63	6863	3.836514	61
6764	3.830204	65	6814	3.833402	64	6864	3.836577	61
		64			64			61
6765	3.830268	64	6815	3.833466	64	6865	3.836641	61
6766	3.830332	64	6816	3.833530	63	6866	3.836704	61
6767	3.830396	64	6817	3.833593	64	6867	3.836767	61
6768	3.830460	64	6818	3.833657	64	6868	3.836830	61
6769	3.830525	65	6819	3.833721	64	6869	3.836894	61
		64			63			61
6770	3.830589	64	6820	3.833784	64	6870	3.836957	61
6771	3.830653	64	6821	3.833848	64	6871	3.837020	61
6772	3.830717	64	6822	3.833912	64	6872	3.837083	61
6773	3.830781	64	6823	3.833975	63	6873	3.837146	61
6774	3.830845	64	6824	3.834039	64	6874	3.837210	61
		64			64			61
6775	3.830909	64	6825	3.834103	63	6875	3.837273	61
6776	3.830973	64	6826	3.834166	63	6876	3.837336	61
6777	3.831037	64	6827	3.834230	64	6877	3.837399	61
6778	3.831102	65	6828	3.834294	64	6878	3.837462	61
6779	3.831166	64	6829	3.834357	63	6879	3.837525	61
		64			64			61
6780	3.831230	64	6830	3.834421	64	6880	3.837588	61
6781	3.831294	64	6831	3.834484	63	6881	3.837652	61
6782	3.831358	64	6832	3.834548	64	6882	3.837715	61
6783	3.831422	64	6833	3.834611	63	6883	3.837778	61
6784	3.831486	64	6834	3.834675	64	6884	3.837841	61
		64			64			61
6785	3.831550	64	6835	3.834739	64	6885	3.837904	61
6786	3.831614	64	6836	3.834802	63	6886	3.837967	61
6787	3.831678	64	6837	3.834866	64	6887	3.838030	61
6788	3.831742	64	6838	3.834929	63	6888	3.838093	61
6789	3.831806	64	6839	3.834993	64	6889	3.838156	61
		64			63			61
6790	3.831870	64	6840	3.835056	64	6890	3.838219	61
6791	3.831934	64	6841	3.835120	64	6891	3.838282	61
6792	3.831998	64	6842	3.835183	63	6892	3.838345	61
6793	3.832062	64	6843	3.835247	64	6893	3.838408	61
6794	3.832126	64	6844	3.835310	63	6894	3.838471	61
		63			63			61
6795	3.832189	64	6845	3.835373	64	6895	3.838534	61
6796	3.832253	64	6846	3.835437	64	6896	3.838597	61
6797	3.832317	64	6847	3.835500	63	6897	3.838660	61
6798	3.832381	64	6848	3.835564	64	6898	3.838723	61
6799	3.832445	64	6849	3.835627	63	6899	3.838786	61
6800	3.832509	64	6850	3.835691	64	6900	3.838849	61

mb.	1. 55' 0"	Dif.	Nomb.	1. 55' 50"	Dif.	Nomb.	1. 56' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
900	3.838849	63	6950	3.841985	62	7000	3.845098	62
901	3.838912	63	6951	3.842047	63	7001	3.845160	62
902	3.838975	63	6952	3.842110	62	7002	3.845222	62
903	3.839038	63	6953	3.842172	63	7003	3.845284	62
904	3.839101	63	6954	3.842235	63	7004	3.845346	62
					62			62
905	3.839164	63	6955	3.842297	63	7005	3.845408	62
906	3.839227	62	6956	3.842360	62	7006	3.845470	62
907	3.839289	63	6957	3.842422	62	7007	3.845532	62
908	3.839352	63	6958	3.842484	63	7008	3.845594	62
909	3.839415	63	6959	3.842547	62	7009	3.845656	62
					62			62
910	3.839478	63	6960	3.842609	63	7010	3.845718	62
911	3.839541	63	6961	3.842672	62	7011	3.845780	62
912	3.839604	63	6962	3.842734	62	7012	3.845842	62
913	3.839667	63	6963	3.842796	63	7013	3.845904	62
914	3.839729	62	6964	3.842859	63	7014	3.845966	62
					62			62
915	3.839792	63	6965	3.842921	62	7015	3.846028	62
916	3.839855	63	6966	3.842983	63	7016	3.846090	61
917	3.839918	63	6967	3.843046	62	7017	3.846151	61
918	3.839981	62	6968	3.843108	62	7018	3.846213	62
919	3.840043	63	6969	3.843170	63	7019	3.846275	62
					62			62
920	3.840106	63	6970	3.843233	62	7020	3.846337	62
921	3.840169	63	6971	3.843295	62	7021	3.846399	62
922	3.840232	62	6972	3.843357	63	7022	3.846461	62
923	3.840294	63	6973	3.843420	62	7023	3.846523	62
924	3.840357	63	6974	3.843482	62	7024	3.846585	62
					62			61
925	3.840420	62	6975	3.843544	62	7025	3.846646	62
926	3.840482	63	6976	3.843606	63	7026	3.846708	62
927	3.840545	63	6977	3.843669	62	7027	3.846770	62
928	3.840608	63	6978	3.843731	62	7028	3.846832	62
929	3.840671	62	6979	3.843793	62	7029	3.846894	61
					62			61
930	3.840733	63	6980	3.843855	63	7030	3.846955	62
931	3.840796	63	6981	3.843918	62	7031	3.847017	62
932	3.840859	62	6982	3.843980	62	7032	3.847079	62
933	3.840921	63	6983	3.844042	62	7033	3.847141	61
934	3.840984	62	6984	3.844104	62	7034	3.847202	62
					62			62
935	3.841046	63	6985	3.844166	63	7035	3.847264	62
936	3.841109	63	6986	3.844229	62	7036	3.847326	62
937	3.841172	62	6987	3.844291	62	7037	3.847388	61
938	3.841234	63	6988	3.844353	62	7038	3.847449	62
939	3.841297	62	6989	3.844415	62	7039	3.847511	62
					62			62
940	3.841359	63	6990	3.844477	62	7040	3.847573	61
941	3.841422	63	6991	3.844539	62	7041	3.847634	62
942	3.841485	62	6992	3.844601	63	7042	3.847696	62
943	3.841547	63	6993	3.844664	62	7043	3.847758	61
944	3.841610	62	6994	3.844726	62	7044	3.847819	62
					62			62
945	3.841672	63	6995	3.844788	62	7045	3.847881	61
946	3.841735	63	6996	3.844850	62	7046	3.847943	62
947	3.841797	62	6997	3.844912	62	7047	3.848004	62
948	3.841860	62	6998	3.844974	62	7048	3.848066	62
949	3.841922	63	6999	3.845036	62	7049	3.848128	61
950	3.841985		7000	3.845098		7050	3.848189	

Nomb.	1. 57 30" Logarith.	Dif.	Nomb.	1. 58 20" Logarith.	Dif.	Nomb.	1. 59 10" Logarith.	Dif.
7050	3.848189	62	7100	3.851258	62	7150	3.854306	61
7051	3.848251	61	7101	3.851320	61	7151	3.854367	61
7052	3.848312	62	7102	3.851381	61	7152	3.854428	60
7053	3.848374	61	7103	3.851442	61	7153	3.854488	61
7054	3.848435	61	7104	3.851503	61	7154	3.854549	61
		62			61			61
7055	3.848497	62	7105	3.851564	61	7155	3.854610	60
7056	3.848559	61	7106	3.851625	61	7156	3.854670	61
7057	3.848620	62	7107	3.851686	61	7157	3.854731	61
7058	3.848682	61	7108	3.851747	62	7158	3.854792	60
7059	3.848743	62	7109	3.851809	61	7159	3.854852	61
7060	3.848805	61	7110	3.851870	61	7160	3.854913	61
7061	3.848866	62	7111	3.851931	61	7161	3.854974	60
7062	3.848928	61	7112	3.851992	61	7162	3.855034	61
7063	3.848989	62	7113	3.852053	61	7163	3.855095	61
7064	3.849051	61	7114	3.852114	61	7164	3.855156	60
		62			61			61
7065	3.849112	62	7115	3.852175	61	7165	3.855216	61
7066	3.849174	61	7116	3.852236	61	7166	3.855277	60
7067	3.849235	62	7117	3.852297	61	7167	3.855337	61
7068	3.849297	61	7118	3.852358	61	7168	3.855398	61
7069	3.849358	61	7119	3.852419	61	7169	3.855459	60
7070	3.849419	62	7120	3.852480	61	7170	3.855519	61
7071	3.849481	61	7121	3.852541	61	7171	3.855580	60
7072	3.849542	62	7122	3.852602	61	7172	3.855640	61
7073	3.849604	61	7123	3.852663	61	7173	3.855701	60
7074	3.849665	61	7124	3.852724	61	7174	3.855761	61
		62			61			60
7075	3.849726	62	7125	3.852785	61	7175	3.855822	60
7076	3.849788	61	7126	3.852846	61	7176	3.855882	61
7077	3.849849	62	7127	3.852907	61	7177	3.855943	60
7078	3.849911	61	7128	3.852968	61	7178	3.856003	61
7079	3.849972	61	7129	3.853029	61	7179	3.856064	60
7080	3.850033	62	7130	3.853090	60	7180	3.856124	61
7081	3.850095	61	7131	3.853150	61	7181	3.856185	60
7082	3.850156	61	7132	3.853211	61	7182	3.856245	61
7083	3.850217	62	7133	3.853272	61	7183	3.856306	60
7084	3.850279	61	7134	3.853333	61	7184	3.856366	61
		62			61			60
7085	3.850340	61	7135	3.853394	61	7185	3.856427	61
7086	3.850401	61	7136	3.853455	61	7186	3.856487	61
7087	3.850462	62	7137	3.853516	61	7187	3.856548	60
7088	3.850524	61	7138	3.853577	61	7188	3.856608	60
7089	3.850585	61	7139	3.853637	60	7189	3.856668	61
		62			61			60
7090	3.850646	61	7140	3.853698	61	7190	3.856729	60
7091	3.850707	62	7141	3.853759	61	7191	3.856789	61
7092	3.850769	61	7142	3.853820	61	7192	3.856850	60
7093	3.850830	61	7143	3.853881	60	7193	3.856910	60
7094	3.850891	61	7144	3.853941	61	7194	3.856970	61
		62			61			60
7095	3.850952	62	7145	3.854002	61	7195	3.857031	61
7096	3.851014	61	7146	3.854063	61	7196	3.857091	61
7097	3.851075	61	7147	3.854124	61	7197	3.857152	60
7098	3.851136	61	7148	3.854185	60	7198	3.857212	60
7099	3.851197	61	7149	3.854245	61	7199	3.857272	60
7100	3.851258	61	7150	3.854306	61	7200	3.857332	60

Nomb.	2. 0' 0" Logarith.	Dif.	Nomb.	2. 0' 50" Logarith.	Dif.	Nomb.	2. 1' 40" Logarith.	Dif.
7200	3.857332	61	7250	3.860338	60	7300	3.863323	59
7201	3.857393	60	7251	3.860398	60	7301	3.863382	60
7202	3.857453	60	7252	3.860458	60	7302	3.863442	59
7203	3.857513	61	7253	3.860518	60	7303	3.863501	60
7204	3.857574	60	7254	3.860578	59	7304	3.863561	59
7205	3.857634	60	7255	3.860637	60	7305	3.863620	60
7206	3.857694	61	7256	3.860697	60	7306	3.863680	59
7207	3.857755	60	7257	3.860757	60	7307	3.863739	60
7208	3.857815	60	7258	3.860817	60	7308	3.863799	59
7209	3.857875	60	7259	3.860877	60	7309	3.863858	59
7210	3.857935	60	7260	3.860937	59	7310	3.863917	60
7211	3.857995	61	7261	3.860996	60	7311	3.863977	59
7212	3.858056	60	7262	3.861056	60	7312	3.864036	60
7213	3.858116	60	7263	3.861116	60	7313	3.864096	59
7214	3.858176	60	7264	3.861176	60	7314	3.864155	59
7215	3.858236	61	7265	3.861236	59	7315	3.864214	60
7216	3.858297	60	7266	3.861295	60	7316	3.864274	59
7217	3.858357	60	7267	3.861355	60	7317	3.864333	59
7218	3.858417	60	7268	3.861415	60	7318	3.864392	60
7219	3.858477	60	7269	3.861475	59	7319	3.864452	59
7220	3.858537	60	7270	3.861534	60	7320	3.864511	59
7221	3.858597	60	7271	3.861594	60	7321	3.864570	60
7222	3.858657	61	7272	3.861654	60	7322	3.864630	59
7223	3.858718	60	7273	3.861714	59	7323	3.864689	59
7224	3.858778	60	7274	3.861773	60	7324	3.864748	60
7225	3.858838	60	7275	3.861833	60	7325	3.864808	59
7226	3.858898	60	7276	3.861893	59	7326	3.864867	59
7227	3.858958	60	7277	3.861952	60	7327	3.864926	59
7228	3.859018	60	7278	3.862012	60	7328	3.864985	60
7229	3.859078	60	7279	3.862072	59	7329	3.865045	59
7230	3.859138	60	7280	3.862131	60	7330	3.865104	59
7231	3.859198	60	7281	3.862191	60	7331	3.865163	59
7232	3.859258	60	7282	3.862251	59	7332	3.865222	60
7233	3.859318	61	7283	3.862310	60	7333	3.865282	59
7234	3.859379	60	7284	3.862370	60	7334	3.865341	59
7235	3.859439	60	7285	3.862430	59	7335	3.865400	59
7236	3.859499	60	7286	3.862489	60	7336	3.865459	60
7237	3.859559	60	7287	3.862549	59	7337	3.865519	59
7238	3.859619	60	7288	3.862608	60	7338	3.865578	59
7239	3.859679	60	7289	3.862668	60	7339	3.865637	59
7240	3.859739	60	7290	3.862728	59	7340	3.865696	59
7241	3.859799	60	7291	3.862787	60	7341	3.865755	59
7242	3.859859	59	7292	3.862847	59	7342	3.865814	60
7243	3.859918	60	7293	3.862906	60	7343	3.865874	59
7244	3.859978	60	7294	3.862966	59	7344	3.865933	59
7245	3.860038	60	7295	3.863025	60	7345	3.865992	59
7246	3.860098	60	7296	3.863085	59	7346	3.866051	59
7247	3.860158	60	7297	3.863144	59	7347	3.866110	59
7248	3.860218	60	7298	3.863204	59	7348	3.866169	59
7249	3.860278	60	7299	3.863263	60	7349	3.866228	59
7250	3.860338		7300	3.863323		7350	3.866287	

Nomb.	2. 2' 30"	Dif.	Nomb.	2. 3' 20"	Dif.	Nomb.	2. 4' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
7350	3.866287		7400	3.869232	58	7450	3.872156	50
7351	3.866346	59	7401	3.869290	59	7451	3.872215	58
7352	3.866405	59	7402	3.869349	59	7452	3.872273	58
7353	3.866465	60	7403	3.869408	59	7453	3.872331	58
7354	3.866524	59	7404	3.869466	58	7454	3.872389	58
7355	3.866583	59	7405	3.869525	59	7455	3.872448	59
7356	3.866642	59	7406	3.869584	59	7456	3.872506	58
7357	3.866701	59	7407	3.869642	58	7457	3.872564	58
7358	3.866760	59	7408	3.869701	59	7458	3.872622	58
7359	3.866819	59	7409	3.869760	59	7459	3.872681	59
7360	3.866878	59	7410	3.869818	58	7460	3.872739	58
7361	3.866937	59	7411	3.869877	59	7461	3.872797	58
7362	3.866996	59	7412	3.869935	58	7462	3.872855	58
7363	3.867055	59	7413	3.869994	59	7463	3.872913	58
7364	3.867114	59	7414	3.870053	59	7464	3.872972	59
7365	3.867173	59	7415	3.870111	58	7465	3.873030	58
7366	3.867232	59	7416	3.870170	59	7466	3.873088	58
7367	3.867291	59	7417	3.870228	58	7467	3.873146	58
7368	3.867350	59	7418	3.870287	59	7468	3.873204	58
7369	3.867409	58	7419	3.870345	58	7469	3.873262	59
7370	3.867467	59	7420	3.870404	59	7470	3.873321	58
7371	3.867526	59	7421	3.870462	58	7471	3.873379	58
7372	3.867585	59	7422	3.870521	59	7472	3.873437	58
7373	3.867644	59	7423	3.870579	58	7473	3.873495	58
7374	3.867703	59	7424	3.870638	59	7474	3.873553	58
7375	3.867762	59	7425	3.870696	58	7475	3.873611	58
7376	3.867821	59	7426	3.870755	59	7476	3.873669	58
7377	3.867880	59	7427	3.870813	58	7477	3.873727	58
7378	3.867939	59	7428	3.870872	59	7478	3.873785	58
7379	3.867998	58	7429	3.870930	58	7479	3.873844	59
7380	3.868056	59	7430	3.870989	59	7480	3.873902	58
7381	3.868115	59	7431	3.871047	58	7481	3.873960	58
7382	3.868174	59	7432	3.871106	59	7482	3.874018	58
7383	3.868233	59	7433	3.871164	58	7483	3.874076	58
7384	3.868292	58	7434	3.871223	59	7484	3.874134	58
7385	3.868350	59	7435	3.871281	58	7485	3.874192	58
7386	3.868409	59	7436	3.871339	59	7486	3.874250	58
7387	3.868468	59	7437	3.871398	58	7487	3.874308	58
7388	3.868527	59	7438	3.871456	59	7488	3.874366	58
7389	3.868586	58	7439	3.871515	58	7489	3.874424	58
7390	3.868644	59	7440	3.871573	59	7490	3.874482	58
7391	3.868703	59	7441	3.871631	58	7491	3.874540	58
7392	3.868762	59	7442	3.871690	59	7492	3.874598	58
7393	3.868821	58	7443	3.871748	58	7493	3.874656	58
7394	3.868879	59	7444	3.871806	59	7494	3.874714	58
7395	3.868938	59	7445	3.871865	58	7495	3.874772	58
7396	3.868997	59	7446	3.871923	59	7496	3.874830	58
7397	3.869056	58	7447	3.871981	58	7497	3.874888	57
7398	3.869114	59	7448	3.872040	59	7498	3.874945	58
7399	3.869173	59	7449	3.872098	58	7499	3.875003	58
7400	3.869232	59	7450	3.872156	58	7500	3.875061	58

Nomb.	2. 5' 0"	Dif.	Nomb.	2. 5' 50"	Dif.	Nomb.	2. 6' 40"	Dif.
	Logarithh.			Logarithh.			Logarithh.	
7500	3.875061	58	7550	3.877947	57	7600	3.880814	57
7501	3.875119	58	7551	3.878004	57	7601	3.880871	57
7502	3.875177	58	7552	3.878062	57	7602	3.880928	57
7503	3.875235	58	7553	3.878119	57	7603	3.880985	57
7504	3.875293	58	7554	3.878177	57	7604	3.881042	57
7505	3.875351	58	7555	3.878234	57	7605	3.881099	57
7506	3.875409	57	7556	3.878292	57	7606	3.881156	57
7507	3.875466	58	7557	3.878349	57	7607	3.881213	57
7508	3.875524	58	7558	3.878407	57	7608	3.881271	57
7509	3.875582	58	7559	3.878464	57	7609	3.881328	57
7510	3.875640	58	7560	3.878522	57	7610	3.881385	57
7511	3.875698	58	7561	3.878579	57	7611	3.881442	57
7512	3.875756	57	7562	3.878637	57	7612	3.881499	57
7513	3.875813	58	7563	3.878694	57	7613	3.881556	57
7514	3.875871	58	7564	3.878752	57	7614	3.881613	57
7515	3.875929	58	7565	3.878809	57	7615	3.881670	57
7516	3.875987	58	7566	3.878866	57	7616	3.881727	57
7517	3.876045	57	7567	3.878924	57	7617	3.881784	57
7518	3.876102	58	7568	3.878981	57	7618	3.881841	57
7519	3.876160	58	7569	3.879039	57	7619	3.881898	57
7520	3.876218	58	7570	3.879096	57	7620	3.881955	57
7521	3.876276	57	7571	3.879153	57	7621	3.882012	57
7522	3.876333	58	7572	3.879211	57	7622	3.882069	57
7523	3.876391	58	7573	3.879268	57	7623	3.882126	57
7524	3.876449	58	7574	3.879325	57	7624	3.882183	57
7525	3.876507	57	7575	3.879383	57	7625	3.882240	57
7526	3.876564	58	7576	3.879440	57	7626	3.882297	57
7527	3.876622	58	7577	3.879497	57	7627	3.882354	57
7528	3.876680	57	7578	3.879555	57	7628	3.882411	57
7529	3.876737	58	7579	3.879612	57	7629	3.882468	57
7530	3.876795	58	7580	3.879669	57	7630	3.882525	56
7531	3.876853	57	7581	3.879726	57	7631	3.882581	57
7532	3.876910	58	7582	3.879784	57	7632	3.882638	57
7533	3.876968	58	7583	3.879841	57	7633	3.882695	57
7534	3.877026	57	7584	3.879898	57	7634	3.882752	57
7535	3.877083	58	7585	3.879956	57	7635	3.882809	57
7536	3.877141	58	7586	3.880013	57	7636	3.882866	57
7537	3.877199	57	7587	3.880070	57	7637	3.882923	57
7538	3.877256	58	7588	3.880127	57	7638	3.882980	57
7539	3.877314	57	7589	3.880185	57	7639	3.883037	56
7540	3.877371	58	7590	3.880242	57	7640	3.883093	57
7541	3.877429	58	7591	3.880299	57	7641	3.883150	57
7542	3.877487	57	7592	3.880356	57	7642	3.883207	57
7543	3.877544	58	7593	3.880413	57	7643	3.883264	57
7544	3.877602	57	7594	3.880471	57	7644	3.883321	56
7545	3.877659	58	7595	3.880528	57	7645	3.883377	57
7546	3.877717	57	7596	3.880585	57	7646	3.883434	57
7547	3.877774	58	7597	3.880642	57	7647	3.883491	57
7548	3.877832	57	7598	3.880699	57	7648	3.883548	57
7549	3.877889	58	7599	3.880756	57	7649	3.883605	56
7550	3.877947		7600	3.880814	58	7650	3.883661	56

2. 7' 30"			2. 8' 20"			2. 9' 10"		
Nomb.	Logarith.	Dif.	Nomb.	Logarith.	Dif.	Nomb.	Logarith.	Dif.
7650	3.883661		7700	3.886491		7750	3.889302	
7651	3.883718	57	7701	3.886547	56	7751	3.889358	56
7652	3.883775	57	7702	3.886604	56	7752	3.889414	56
7653	3.883832	57	7703	3.886660	56	7753	3.889470	56
7654	3.883888	56	7704	3.886716	56	7754	3.889526	56
7655	3.883945	57	7705	3.886773	57	7755	3.889582	56
7656	3.884002	57	7706	3.886829	56	7756	3.889638	56
7657	3.884059	57	7707	3.886885	56	7757	3.889694	56
7658	3.884115	56	7708	3.886942	57	7758	3.889750	56
7659	3.884172	57	7709	3.886998	56	7759	3.889806	56
7660	3.884229	56	7710	3.887054	56	7760	3.889862	56
7661	3.884285	56	7711	3.887111	57	7761	3.889918	56
7662	3.884342	57	7712	3.887167	56	7762	3.889974	56
7663	3.884399	57	7713	3.887223	56	7763	3.890030	56
7664	3.884455	56	7714	3.887280	57	7764	3.890086	56
7665	3.884512	57	7715	3.887336	56	7765	3.890141	55
7666	3.884569	57	7716	3.887392	56	7766	3.890197	56
7667	3.884625	56	7717	3.887448	56	7767	3.890253	56
7668	3.884682	57	7718	3.887505	57	7768	3.890309	56
7669	3.884739	57	7719	3.887561	56	7769	3.890365	56
7670	3.884795	56	7720	3.887617	56	7770	3.890421	56
7671	3.884852	57	7721	3.887674	57	7771	3.890477	56
7672	3.884909	56	7722	3.887730	56	7772	3.890533	56
7673	3.884965	57	7723	3.887786	56	7773	3.890589	56
7674	3.885022	57	7724	3.887842	56	7774	3.890645	56
7675	3.885078	56	7725	3.887898	56	7775	3.890700	55
7676	3.885135	57	7726	3.887955	57	7776	3.890756	56
7677	3.885192	56	7727	3.888011	56	7777	3.890812	56
7678	3.885248	57	7728	3.888067	56	7778	3.890868	56
7679	3.885305	56	7729	3.888123	56	7779	3.890924	56
7680	3.885361	57	7730	3.888179	56	7780	3.890980	56
7681	3.885418	56	7731	3.888236	57	7781	3.891035	55
7682	3.885474	57	7732	3.888292	56	7782	3.891091	56
7683	3.885531	56	7733	3.888348	56	7783	3.891147	56
7684	3.885587	57	7734	3.888404	56	7784	3.891203	56
7685	3.885644	56	7735	3.888460	56	7785	3.891259	55
7686	3.885700	57	7736	3.888516	56	7786	3.891315	56
7687	3.885757	56	7737	3.888573	57	7787	3.891370	56
7688	3.885813	56	7738	3.888629	56	7788	3.891426	56
7689	3.885870	57	7739	3.888685	56	7789	3.891482	56
7690	3.885926	56	7740	3.888741	56	7790	3.891537	55
7691	3.885983	57	7741	3.888797	56	7791	3.891593	56
7692	3.886039	56	7742	3.888853	56	7792	3.891649	56
7693	3.886096	57	7743	3.888909	56	7793	3.891705	56
7694	3.886152	56	7744	3.888965	56	7794	3.891760	55
7695	3.886209	57	7745	3.889021	56	7795	3.891816	56
7696	3.886265	56	7746	3.889077	56	7796	3.891872	56
7697	3.886321	57	7747	3.889134	57	7797	3.891928	55
7698	3.886378	56	7748	3.889190	56	7798	3.891983	56
7699	3.886434	57	7749	3.889246	56	7799	3.892039	56

Nomb.	2. 10' 0"	Dif.	Nomb.	2. 10' 50"	Dif.	Nomb.	2. 11' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
7800	3.892095	55	7850	3.894870	55	7900	3.897627	55
7801	3.892150	56	7851	3.894925	55	7901	3.897682	55
7802	3.892206	56	7852	3.894980	56	7902	3.897737	55
7803	3.892262	55	7853	3.895036	55	7903	3.897792	55
7804	3.892317	56	7854	3.895091	55	7904	3.897847	55
7805	3.892373	56	7855	3.895146	55	7905	3.897902	55
7806	3.892429	55	7856	3.895201	56	7906	3.897957	55
7807	3.892484	56	7857	3.895257	55	7907	3.898012	55
7808	3.892540	55	7858	3.895312	55	7908	3.898067	55
7809	3.892595	56	7859	3.895367	56	7909	3.898122	54
7810	3.892651	56	7860	3.895423	55	7910	3.898176	55
7811	3.892707	55	7861	3.895478	55	7911	3.898231	55
7812	3.892762	56	7862	3.895533	55	7912	3.898286	55
7813	3.892818	55	7863	3.895588	56	7913	3.898341	55
7814	3.892873	56	7864	3.895644	55	7914	3.898396	55
7815	3.892929	56	7865	3.895699	55	7915	3.898451	55
7816	3.892985	55	7866	3.895754	55	7916	3.898506	55
7817	3.893040	56	7867	3.895809	55	7917	3.898561	54
7818	3.893096	55	7868	3.895864	56	7918	3.898615	55
7819	3.893151	56	7869	3.895920	55	7919	3.898670	55
7820	3.893207	55	7870	3.895975	55	7920	3.898725	55
7821	3.893262	56	7871	3.896030	55	7921	3.898780	55
7822	3.893318	55	7872	3.896085	55	7922	3.898835	55
7823	3.893373	56	7873	3.896140	55	7923	3.898890	54
7824	3.893429	55	7874	3.896195	56	7924	3.898944	55
7825	3.893484	56	7875	3.896251	55	7925	3.898999	55
7826	3.893540	55	7876	3.896306	55	7926	3.899054	55
7827	3.893595	56	7877	3.896361	55	7927	3.899109	55
7828	3.893651	55	7878	3.896416	55	7928	3.899164	54
7829	3.893706	56	7879	3.896471	55	7929	3.899218	55
7830	3.893762	55	7880	3.896526	55	7930	3.899273	55
7831	3.893817	56	7881	3.896581	55	7931	3.899328	55
7832	3.893873	55	7882	3.896636	56	7932	3.899383	54
7833	3.893928	56	7883	3.896692	55	7933	3.899437	55
7834	3.893984	55	7884	3.896747	55	7934	3.899492	55
7835	3.894039	55	7885	3.896802	55	7935	3.899547	55
7836	3.894094	56	7886	3.896857	55	7936	3.899602	54
7837	3.894150	55	7887	3.896912	55	7937	3.899656	55
7838	3.894205	56	7888	3.896967	55	7938	3.899711	55
7839	3.894261	55	7889	3.897022	55	7939	3.899766	55
7840	3.894316	55	7890	3.897077	55	7940	3.899821	54
7841	3.894371	56	7891	3.897132	55	7941	3.899875	55
7842	3.894427	55	7892	3.897187	55	7942	3.899930	55
7843	3.894482	56	7893	3.897242	55	7943	3.899985	54
7844	3.894538	55	7894	3.897297	55	7944	3.900039	55
7845	3.894593	55	7895	3.897352	55	7945	3.900094	55
7846	3.894648	56	7896	3.897407	55	7946	3.900149	54
7847	3.894704	55	7897	3.897462	55	7947	3.900203	55
7848	3.894759	55	7898	3.897517	55	7948	3.900258	54
7849	3.894814	56	7899	3.897572	55	7949	3.900312	55
7850	3.894870		7900	3.897627		7950	3.900367	

Nomb.	2. 12' 30" Logarith.	Dif.	Nomb.	2. 13' 20" Logarith.	Dif.	Nomb.	2. 14' 10" Logarith.	Dif.
7950	3.900367	55	8000	3.903090	54	8050	3.905796	54
7951	3.900422	54	8001	3.903144	55	8051	3.905850	54
7952	3.900476	55	8002	3.903199	54	8052	3.905904	54
7953	3.900531	55	8003	3.903253	54	8053	3.905958	54
7954	3.900586	54	8004	3.903307	54	8054	3.906012	54
7955	3.900640	55	8005	3.903361	55	8055	3.906066	53
7956	3.900695	54	8006	3.903416	54	8056	3.906119	54
7957	3.900749	55	8007	3.903470	54	8057	3.906173	54
7958	3.900804	55	8008	3.903524	54	8058	3.906227	54
7959	3.900859	54	8009	3.903578	55	8059	3.906281	54
7960	3.900913	55	8010	3.903633	54	8060	3.906335	54
7961	3.900968	54	8011	3.903687	54	8061	3.906389	54
7962	3.901022	55	8012	3.903741	54	8062	3.906443	54
7963	3.901077	54	8013	3.903795	54	8063	3.906497	54
7964	3.901131	55	8014	3.903849	55	8064	3.906551	53
7965	3.901186	54	8015	3.903904	54	8065	3.906604	54
7966	3.901240	55	8016	3.903958	54	8066	3.906658	54
7967	3.901295	54	8017	3.904012	54	8067	3.906712	54
7968	3.901349	55	8018	3.904066	54	8068	3.906766	54
7969	3.901404	54	8019	3.904120	54	8069	3.906820	54
7970	3.901458	55	8020	3.904174	55	8070	3.906874	53
7971	3.901513	54	8021	3.904229	54	8071	3.906927	54
7972	3.901567	55	8022	3.904283	54	8072	3.906981	54
7973	3.901622	54	8023	3.904337	54	8073	3.907035	54
7974	3.901676	55	8024	3.904391	54	8074	3.907089	54
7975	3.901731	54	8025	3.904445	54	8075	3.907143	53
7976	3.901785	55	8026	3.904499	54	8076	3.907196	54
7977	3.901840	54	8027	3.904553	54	8077	3.907250	54
7978	3.901894	54	8028	3.904607	54	8078	3.907304	54
7979	3.901948	55	8029	3.904661	55	8079	3.907358	53
7980	3.902003	54	8030	3.904716	54	8080	3.907411	54
7981	3.902057	55	8031	3.904770	54	8081	3.907465	54
7982	3.902112	54	8032	3.904824	54	8082	3.907519	54
7983	3.902166	55	8033	3.904878	54	8083	3.907573	53
7984	3.902221	54	8034	3.904932	54	8084	3.907626	54
7985	3.902275	54	8035	3.904986	54	8085	3.907680	54
7986	3.902329	55	8036	3.905040	54	8086	3.907734	53
7987	3.902384	54	8037	3.905094	54	8087	3.907787	54
7988	3.902438	54	8038	3.905148	54	8088	3.907841	54
7989	3.902492	55	8039	3.905202	54	8089	3.907895	54
7990	3.902547	54	8040	3.905256	54	8090	3.907949	53
7991	3.902601	54	8041	3.905310	54	8091	3.908002	54
7992	3.902655	55	8042	3.905364	54	8092	3.908056	54
7993	3.902710	54	8043	3.905418	54	8093	2.908110	53
7994	3.902764	54	8044	3.905472	54	8094	3.908163	54
7995	3.902818	55	8045	3.905526	54	8095	3.908217	53
7996	3.902873	54	8046	3.905580	54	8096	3.908270	54
7997	3.902927	54	8047	3.905634	54	8097	3.908324	54
7998	3.902981	55	8048	3.905688	54	8098	3.908378	53
7999	3.903036	54	8049	3.905742	54	8099	3.908431	54
8000	3.903090		8050	3.905796		8100	3.908485	

Nomb.	2. 15' 0"	Dif.	Nomb.	2. 15' 50"	Dif.	Nomb.	2. 16' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
8100	3.908485	54	8150	3.911158	53	8200	3.913814	53
8101	3.908539	53	8151	3.911211	53	8201	3.913867	53
8102	3.908592	54	8152	3.911264	53	8202	3.913920	53
8103	3.908646	53	8153	3.911317	54	8203	3.913973	53
8104	3.908699	54	8154	3.911371	53	8204	3.914026	53
8105	3.908753	53	8155	3.911424	53	8205	3.914079	53
8106	3.908807	54	8156	3.911477	53	8206	3.914132	52
8107	3.908860	53	8157	3.911530	54	8207	3.914184	53
8108	3.908914	53	8158	3.911584	53	8208	3.914237	53
8109	3.908967	54	8159	3.911637	53	8209	3.914290	53
8110	3.909021	53	8160	3.911690	53	8210	3.914343	53
8111	3.909074	54	8161	3.911743	54	8211	3.914396	53
8112	3.909128	53	8162	3.911797	53	8212	3.914449	53
8113	3.909181	54	8163	3.911850	53	8213	3.914502	53
8114	3.909235	54	8164	3.911903	53	8214	3.914555	53
8115	3.909289	53	8165	3.911956	53	8215	3.914608	52
8116	3.909342	54	8166	3.912009	54	8216	3.914660	53
8117	3.909396	53	8167	3.912063	53	8217	3.914713	53
8118	3.909449	54	8168	3.912116	53	8218	3.914766	53
8119	3.909503	53	8169	3.912169	53	8219	3.914819	53
8120	3.909556	54	8170	3.912222	53	8220	3.914872	53
8121	3.909610	53	8171	3.912275	53	8221	3.914925	52
8122	3.909663	53	8172	3.912328	53	8222	3.914977	53
8123	3.909716	54	8173	3.912381	54	8223	3.915030	53
8124	3.909770	53	8174	3.912435	53	8224	3.915083	53
8125	3.909823	54	8175	3.912488	53	8225	3.915136	53
8126	3.909877	53	8176	3.912541	53	8226	3.915189	52
8127	3.909930	54	8177	3.912594	53	8227	3.915241	53
8128	3.909984	53	8178	3.912647	53	8228	3.915294	53
8129	3.910037	54	8179	3.912700	53	8229	3.915347	53
8130	3.910091	53	8180	3.912753	53	8230	3.915400	53
8131	3.910144	53	8181	3.912806	53	8231	3.915453	52
8132	3.910197	54	8182	3.912859	54	8232	3.915505	53
8133	3.910251	53	8183	3.912913	53	8233	3.915558	53
8134	3.910304	54	8184	3.912966	53	8234	3.915611	53
8135	3.910358	53	8185	3.913019	53	8235	3.915664	52
8136	3.910411	53	8186	3.913072	53	8236	3.915716	53
8137	3.910464	54	8187	3.913125	53	8237	3.915769	53
8138	3.910518	53	8188	3.913178	53	8238	3.915822	52
8139	3.910571	53	8189	3.913231	53	8239	3.915874	53
8140	3.910624	54	8190	3.913284	53	8240	3.915927	53
8141	3.910678	53	8191	3.913337	53	8241	3.915980	53
8142	3.910731	53	8192	3.913390	53	8242	3.916033	52
8143	3.910784	54	8193	3.913443	53	8243	3.916085	53
8144	3.910838	53	8194	3.913496	53	8244	3.916138	53
8145	3.910891	53	8195	3.913549	53	8245	3.916191	52
8146	3.910944	54	8196	3.913602	53	8246	3.916243	53
8147	3.910998	53	8197	3.913655	53	8247	3.916296	53
8148	3.911051	53	8198	3.913708	53	8248	3.916349	52
8149	3.911104	54	8199	3.913761	53	8249	3.916401	53
8150	3.911158		8200	3.913814		8250	3.916454	

Nomb.	2. 17' 30"	Dif.	Nomb.	2. 18' 20"	Dif.	Nomb.	2. 19' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
8250	3.916454		8300	3.919078		8350	3.921686	
8251	3.916507	53	8301	3.919130	52	8351	3.921738	52
8252	3.916559	52	8302	3.919183	53	8352	3.921790	52
8253	3.916612	52	8303	3.919235	52	8353	3.921842	52
8254	3.916664	52	8304	3.919287	52	8354	3.921894	52
8255	3.916717	53	8305	3.919340	53	8355	3.921946	52
8256	3.916770	53	8306	3.919392	52	8356	3.921998	52
8257	3.916822	52	8307	3.919444	52	8357	3.922050	52
8258	3.916875	53	8308	3.919496	52	8358	3.922102	52
8259	3.916927	52	8309	3.919549	53	8359	3.922154	52
8260	3.916980	53	8310	3.919601	52	8360	3.922206	52
8261	3.917033	53	8311	3.919653	52	8361	3.922258	52
8262	3.917085	52	8312	3.919706	53	8362	3.922310	52
8263	3.917138	53	8313	3.919758	52	8363	3.922362	52
8264	3.917190	52	8314	3.919810	52	8364	3.922414	52
8265	3.917243	53	8315	3.919862	52	8365	3.922466	52
8266	3.917295	52	8316	3.919914	52	8366	3.922518	52
8267	3.917348	53	8317	3.919967	53	8367	3.922570	52
8268	3.917400	52	8318	3.920019	52	8368	3.922622	52
8269	3.917453	53	8319	3.920071	52	8369	3.922674	51
8270	3.917506	53	8320	3.920123	52	8370	3.922725	52
8271	3.917558	52	8321	3.920176	53	8371	3.922777	52
8272	3.917611	53	8322	3.920228	52	8372	3.922829	52
8273	3.917663	52	8323	3.920280	52	8373	3.922881	52
8274	3.917716	53	8324	3.920332	52	8374	3.922933	52
8275	3.917768	52	8325	3.920384	53	8375	3.922985	52
8276	3.917820	53	8326	3.920436	52	8376	3.923037	52
8277	3.917873	52	8327	3.920489	53	8377	3.923089	51
8278	3.917925	52	8328	3.920541	52	8378	3.923140	52
8279	3.917978	53	8329	3.920593	52	8379	3.923192	52
8280	3.918030	52	8330	3.920645	52	8380	3.923244	52
8281	3.918083	53	8331	3.920697	52	8381	3.923296	52
8282	3.918135	52	8332	3.920749	52	8382	3.923348	51
8283	3.918188	53	8333	3.920801	52	8383	3.923399	52
8284	3.918240	52	8334	3.920853	52	8384	3.923451	52
8285	3.918293	53	8335	3.920906	53	8385	3.923503	52
8286	3.918345	52	8336	3.920958	52	8386	3.923555	52
8287	3.918397	52	8337	3.921010	52	8387	3.923607	52
8288	3.918450	53	8338	3.921062	52	8388	3.923658	51
8289	3.918502	52	8339	3.921114	52	8389	3.923710	52
8290	3.918555	53	8340	3.921166	52	8390	3.923762	52
8291	3.918607	52	8341	3.921218	52	8391	3.923814	51
8292	3.918659	52	8342	3.921270	52	8392	3.923865	52
8293	3.918712	53	8343	3.921322	52	8393	3.923917	52
8294	3.918764	52	8344	3.921374	52	8394	3.923969	52
8295	3.918816	53	8345	3.921426	52	8395	3.924021	51
8296	3.918869	52	8346	3.921478	52	8396	3.924072	52
8297	3.918921	52	8347	3.921530	52	8397	3.924124	52
8298	3.918973	53	8348	3.921582	52	8398	3.924176	52
8299	3.919026	52	8349	3.921634	52	8399	3.924228	51
8300	3.919078	52	8350	3.921686	52	8400	3.924279	

Nomb.	3. 20' 0"	D.	Nomb.	3. 20' 50"	D.	Nomb.	3. 21' 40"	D.
	Logarith.			Logarith.			Logarith.	
12000	4.079181	36	12050	4.080987	36	12100	4.082785	36
12001	4.079217	37	12051	4.081023	36	12101	4.082821	36
12002	4.079254	36	12052	4.081059	36	12102	4.082857	36
12003	4.079290	36	12053	4.081095	36	12103	4.082893	36
12004	4.079326	36	12054	4.081131	36	12104	4.082929	36
12005	4.079362	36	12055	4.081167	36	12105	4.082965	36
12006	4.079398	37	12056	4.081203	36	12106	4.083001	36
12007	4.079435	36	12057	4.081239	36	12107	4.083037	35
12008	4.079471	36	12058	4.081275	36	12108	4.083072	36
12009	4.079507	36	12059	4.081311	36	12109	4.083108	36
12010	4.079543	36	12060	4.081347	36	12110	4.083144	36
12011	4.079579	36	12061	4.081383	36	12111	4.083180	36
12012	4.079615	36	12062	4.081419	36	12112	4.083216	36
12013	4.079651	37	12063	4.081455	36	12113	4.083252	36
12014	4.079688	36	12064	4.081491	36	12114	4.083288	35
12015	4.079724	36	12065	4.081527	36	12115	4.083323	36
12016	4.079760	36	12066	4.081563	36	12116	4.083359	36
12017	4.079796	36	12067	4.081599	36	12117	4.083395	36
12018	4.079832	36	12068	4.081635	36	12118	4.083431	36
12019	4.079868	36	12069	4.081671	36	12119	4.083467	36
12020	4.079904	37	12070	4.081707	36	12120	4.083503	35
12021	4.079941	36	12071	4.081743	36	12121	4.083538	36
12022	4.079977	36	12072	4.081779	36	12122	4.083574	36
12023	4.080013	36	12073	4.081815	36	12123	4.083610	36
12024	4.080049	36	12074	4.081851	36	12124	4.083646	36
12025	4.080085	36	12075	4.081887	36	12125	4.083682	36
12026	4.080121	36	12076	4.081923	36	12126	4.083718	35
12027	4.080157	36	12077	4.081959	36	12127	4.083753	36
12028	4.080193	37	12078	4.081995	36	12128	4.083789	56
12029	4.080230	36	12079	4.082031	36	12129	4.083825	36
12030	4.080266	37	12080	4.082067	36	12130	4.083861	36
12031	4.080302	36	12081	4.082103	36	12131	4.083897	35
12032	4.080338	36	12082	4.082139	36	12132	4.083932	36
12033	4.080374	36	12083	4.082175	36	12133	4.083968	36
12034	4.080410	36	12084	4.082211	36	12134	4.084004	36
12035	4.080446	36	12085	4.082247	36	12135	4.084040	36
12036	4.080482	36	12086	4.082283	36	12136	4.084076	35
12037	4.080518	36	12087	4.082319	35	12137	4.084111	36
12038	4.080554	36	12088	4.082354	36	12138	4.084147	36
12039	4.080590	36	12089	4.082390	36	12139	4.084183	36
12040	4.080626	37	12090	4.082426	36	12140	4.084219	35
12041	4.080663	36	12091	4.082462	36	12141	4.084254	36
12042	4.080699	36	12092	4.082498	36	12142	4.084290	56
12043	4.080735	36	12093	4.082534	36	12143	4.084326	56
12044	4.080771	36	12094	4.082570	36	12144	4.084362	36
12045	4.080807	36	12095	4.082606	36	12145	4.084398	35
12046	4.080843	36	12096	4.082642	36	12146	4.084433	36
12047	4.080879	36	12097	4.082678	36	12147	4.084469	36
12048	4.080915	36	12098	4.082714	35	12148	4.084505	36
12049	4.080951	36	12099	4.082749	36	12149	4.084541	35
12050	4.080987	36	12100	4.082785	36	12150	4.084576	35

2. 22' 30"			2. 23' 20"			2. 24' 10"		
Nomb.	Logarith.	Dif.	Nomb.	Logarith.	Dif.	Nomb.	Logarith.	Dif.
8550	3.931966		8600	3.934498		8650	3.937016	
8551	3.932017	51	8601	3.934549	51	8651	3.937066	50
8552	3.932068	51	8602	3.934600	50	8652	3.937117	51
8553	3.932118	50	8603	3.934650	51	8653	3.937167	50
8554	3.932169	51	8604	3.934700	50	8654	3.937217	50
		51			51			50
8555	3.932220	51	8605	3.934751	50	8655	3.937267	50
8556	3.932271	51	8606	3.934801	51	8656	3.937317	50
8557	3.932322	50	8607	3.934852	50	8657	3.937367	51
8558	3.932372	51	8608	3.934902	51	8658	3.937418	50
8559	3.932423	51	8609	3.934953	50	8659	3.937468	50
		50			51			50
8560	3.932474	51	8610	3.935003	50	8660	3.937518	50
8561	3.932524	51	8611	3.935054	50	8661	3.937568	50
8562	3.932575	51	8612	3.935104	50	8662	3.937618	50
8563	3.932626	51	8613	3.935154	51	8663	3.937668	50
8564	3.932677	50	8614	3.935205	51	8664	3.937718	51
		51			50			50
8565	3.932727	51	8615	3.935255	51	8665	3.937769	50
8566	3.932778	51	8616	3.935306	50	8666	3.937819	50
8567	3.932829	50	8617	3.935356	50	8667	3.937869	50
8568	3.932879	51	8618	3.935406	51	8668	3.937919	50
8569	3.932930	51	8619	3.935457	50	8669	3.937969	50
		50			51			50
8570	3.932981	51	8620	3.935507	50	8670	3.938019	50
8571	3.933031	51	8621	3.935558	50	8671	3.938069	50
8572	3.933082	51	8622	3.935608	50	8672	3.938119	50
8573	3.933133	50	8623	3.935658	51	8673	3.938169	50
8574	3.933183	51	8624	3.935709	50	8674	3.938219	50
		51			50			51
8575	3.933234	51	8625	3.935759	50	8675	3.938269	51
8576	3.933285	50	8626	3.935809	51	8676	3.938320	50
8577	3.933335	51	8627	3.935860	50	8677	3.938370	50
8578	3.933386	51	8628	3.935910	50	8678	3.938420	50
8579	3.933437	50	8629	3.935960	51	8679	3.938470	50
		51			50			50
8580	3.933487	51	8630	3.936011	50	8680	3.938520	50
8581	3.933538	51	8631	3.936061	50	8681	3.938570	50
8582	3.933589	50	8632	3.936111	51	8682	3.938620	50
8583	3.933639	51	8633	3.936162	50	8683	3.938670	50
8584	3.933690	50	8634	3.936212	50	8684	3.938720	50
		51			50			50
8585	3.933740	51	8635	3.936262	51	8685	3.938770	50
8586	3.933791	50	8636	3.936313	50	8686	3.938820	50
8587	3.933841	51	8637	3.936363	50	8687	3.938870	50
8588	3.933892	51	8638	3.936413	50	8688	3.938920	50
8589	3.933943	50	8639	3.936463	51	8689	3.938970	50
		51			50			50
8590	3.933993	51	8640	3.936514	50	8690	3.939020	50
8591	3.934044	50	8641	3.936564	50	8691	3.939070	50
8592	3.934094	51	8642	3.936614	51	8692	3.939120	50
8593	3.934145	50	8643	3.936665	50	8693	3.939170	50
8594	3.934195	51	8644	3.936715	50	8694	3.939220	50
		50			51			50
8595	3.934246	50	8645	3.936765	50	8695	3.939270	50
8596	3.934296	51	8646	3.936815	50	8696	3.939320	49
8597	3.934347	50	8647	3.936865	51	8697	3.939369	50
8598	3.934397	51	8648	3.936916	50	8698	3.939419	50
8599	3.934448	50	8649	3.936966	50	8699	3.939469	50
8600	3.934498	50	8650	3.937016	50	8700	3.939519	50

Nomb.	2. 25' 0"	Dif.	Nomb.	2. 25' 50"	Dif.	Nomb.	2. 26' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
8700	3.939519		8750	3.942008		8800	3.944483	
8701	3.939569	50	8751	3.942058	50	8801	3.944532	49
8702	3.939619	50	8752	3.942107	49	8802	3.944581	50
8703	3.939669	50	8753	3.942157	50	8803	3.944631	49
8704	3.939719	50	8754	3.942207	50	8804	3.944680	49
8705	3.939769	50	8755	3.942256	49	8805	3.944729	49
8706	3.939819	50	8756	3.942306	50	8806	3.944779	50
8707	3.939869	50	8757	3.942355	49	8807	3.944828	49
8708	3.939918	49	8758	3.942405	50	8808	3.944877	49
8709	3.939968	50	8759	3.942455	50	8809	3.944927	50
8710	3.940018	50	8760	3.942504	49	8810	3.944976	49
8711	3.940068	50	8761	3.942554	50	8811	3.945025	49
8712	3.940118	50	8762	3.942603	49	8812	3.945074	49
8713	3.940168	50	8763	3.942653	50	8813	3.945124	50
8714	3.940218	50	8764	3.942702	49	8814	3.945173	49
8715	3.940267	49	8765	3.942752	50	8815	3.945222	49
8716	3.940317	50	8766	3.942801	49	8816	3.945272	50
8717	3.940367	50	8767	3.942851	50	8817	3.945321	49
8718	3.940417	50	8768	3.942901	50	8818	3.945370	49
8719	3.940467	50	8769	3.942950	49	8819	3.945419	49
8720	3.940516	49	8770	3.943000	50	8820	3.945469	50
8721	3.940566	50	8771	3.943049	49	8821	3.945518	49
8722	3.940616	50	8772	3.943099	50	8822	3.945567	49
8723	3.940666	50	8773	3.943148	49	8823	3.945616	49
8724	3.940716	50	8774	3.943198	50	8824	3.945665	49
8725	3.940765	49	8775	3.943247	49	8825	3.945715	50
8726	3.940815	50	8776	3.943297	50	8826	3.945764	49
8727	3.940865	50	8777	3.943346	49	8827	3.945813	49
8728	3.940915	50	8778	3.943396	50	8828	3.945862	49
8729	3.940964	49	8779	3.943445	49	8829	3.945912	50
8730	3.941014	50	8780	3.943495	50	8830	3.945961	49
8731	3.941064	49	8781	3.943544	49	8831	3.946010	49
8732	3.941114	50	8782	3.943593	49	8832	3.946059	49
8733	3.941163	49	8783	3.943643	50	8833	3.946108	49
8734	3.941213	50	8784	3.943692	49	8834	3.946157	49
8735	3.941263	50	8785	3.943742	50	8835	3.946207	50
8736	3.941313	49	8786	3.943791	49	8836	3.946256	49
8737	3.941362	50	8787	3.943841	50	8837	3.946305	49
8738	3.941412	49	8788	3.943890	49	8838	3.946354	49
8739	3.941462	50	8789	3.943939	49	8839	3.946403	49
8740	3.941511	49	8790	3.943989	50	8840	3.946452	49
8741	3.941561	50	8791	3.944038	49	8841	3.946501	49
8742	3.941611	50	8792	3.944088	50	8842	3.946550	49
8743	3.941660	49	8793	3.944137	49	8843	3.946600	50
8744	3.941710	50	8794	3.944186	49	8844	3.946649	49
8745	3.941760	50	8795	3.944236	50	8845	3.946698	49
8746	3.941809	49	8796	3.944285	49	8846	3.946747	49
8747	3.941859	50	8797	3.944335	50	8847	3.946796	49
8748	3.941909	50	8798	3.944384	49	8848	3.946845	49
8749	3.941958	49	8799	3.944433	49	8849	3.946894	49
8750	3.942008	50	8800	3.944483	50	8850	3.946943	49

Nomb.	2. 27' 30"	Dif.	Nomb.	2. 28' 20"	Dif.	Nomb.	2. 29' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
8850	3.946943		8900	3.949390		8950	3.951823	
8851	3.946992	49	8901	3.949439	49	8951	3.951872	49
8852	3.947041	49	8902	3.949488	49	8952	3.951920	48
8853	3.947090	49	8903	3.949536	48	8953	3.951969	49
8854	3.947140	50	8904	3.949585	49	8954	3.952017	48
		49			49			49
8855	3.947189	49	8905	3.949634	49	8955	3.952066	48
8856	3.947238	49	8906	3.949683	48	8956	3.952114	49
8857	3.947287	49	8907	3.949731	48	8957	3.952163	48
8858	3.947336	49	8908	3.949780	49	8958	3.952211	48
8859	3.947385	49	8909	3.949829	49	8959	3.952260	49
		49			49			48
8860	3.947434	49	8910	3.949878	48	8960	3.952308	48
8861	3.947483	49	8911	3.949926	49	8961	3.952356	49
8862	3.947532	49	8912	3.949975	49	8962	3.952405	48
8863	3.947581	49	8913	3.950024	49	8963	3.952453	48
8864	3.947630	49	8914	3.950073	49	8964	3.952502	49
		49			48			48
8865	3.947679	49	8915	3.950121	49	8965	3.952550	49
8866	3.947728	49	8916	3.950170	49	8966	3.952599	49
8867	3.947777	49	8917	3.950219	49	8967	3.952647	48
8868	3.947826	49	8918	3.950267	48	8968	3.952696	49
8869	3.947875	49	8919	3.950316	49	8969	3.952744	48
		49			49			48
8870	3.947924	49	8920	3.950365	49	8970	3.952792	49
8871	3.947973	49	8921	3.950414	49	8971	3.952841	49
8872	3.948022	49	8922	3.950462	48	8972	3.952889	48
8873	3.948070	48	8923	3.950511	49	8973	3.952938	49
8874	3.948119	49	8924	3.950560	49	8974	3.952986	48
		49			48			48
8875	3.948168	49	8925	3.950608	49	8975	3.953034	49
8876	3.948217	49	8926	3.950657	49	8976	3.953083	49
8877	3.948266	49	8927	3.950706	49	8977	3.953131	48
8878	3.948315	49	8928	3.950754	48	8978	3.953180	49
8879	3.948364	49	8929	3.950803	49	8979	3.953228	48
		49			48			48
8880	3.948413	49	8930	3.950851	49	8980	3.953276	49
8881	3.948462	49	8931	3.950900	49	8981	3.953325	49
8882	3.948511	49	8932	3.950949	49	8982	3.953373	48
8883	3.948560	49	8933	3.950997	48	8983	3.953421	48
8884	3.948609	49	8934	3.951046	49	8984	3.953470	49
		48			49			48
8885	3.948657	49	8935	3.951095	48	8985	3.953518	48
8886	3.948706	49	8936	3.951143	48	8986	3.953566	48
8887	3.948755	49	8937	3.951192	49	8987	3.953615	49
8888	3.948804	49	8938	3.951240	48	8988	3.953663	48
8889	3.948853	49	8939	3.951289	49	8989	3.953711	48
		49			49			49
8890	3.948902	49	8940	3.951338	48	8990	3.953760	48
8891	3.948951	48	8941	3.951386	48	8991	3.953808	48
8892	3.948999	49	8942	3.951435	49	8992	3.953856	48
8893	3.949048	49	8943	3.951483	48	8993	3.953905	49
8894	3.949097	49	8944	3.951532	49	8994	3.953953	48
		49			48			48
8895	3.949146	49	8945	3.951580	49	8995	3.954001	48
8896	3.949195	49	8946	3.951629	49	8996	3.954049	49
8897	3.949244	48	8947	3.951677	48	8997	3.954098	48
8898	3.949292	48	8948	3.951726	49	8998	3.954146	48
8899	3.949341	49	8949	3.951774	48	8999	3.954194	48
8900	3.949390	49	8950	3.951823	49	9000	3.954243	49

Nomb.	2. 30' 0"	Dif.	Nomb.	2. 30' 50"	Dif.	Nomb.	2. 31' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
9000	3.954243	48	9050	3.956649	48	9100	3.959041	48
9001	3.954291	48	9051	3.956697	48	9101	3.959089	48
9002	3.954339	48	9052	3.956745	48	9102	3.959137	48
9003	3.954387	48	9053	3.956793	48	9103	3.959185	47
9004	3.954435	48	9054	3.956840	48	9104	3.959232	48
9005	3.954484	48	9055	3.956888	48	9105	3.959280	48
9006	3.954532	48	9056	3.956936	48	9106	3.959328	47
9007	3.954580	48	9057	3.956984	48	9107	3.959375	48
9008	3.954628	48	9058	3.957032	48	9108	3.959423	48
9009	3.954677	49	9059	3.957080	48	9109	3.959471	47
9010	3.954725	48	9060	3.957128	48	9110	3.959518	48
9011	3.954773	48	9061	3.957176	48	9111	3.959566	48
9012	3.954821	48	9062	3.957224	48	9112	3.959614	47
9013	3.954869	48	9063	3.957272	48	9113	3.959661	48
9014	3.954918	48	9064	3.957320	48	9114	3.959709	48
9015	3.954966	48	9065	3.957368	48	9115	3.959757	47
9016	3.955014	48	9066	3.957416	48	9116	3.959804	48
9017	3.955062	48	9067	3.957464	48	9117	3.959852	48
9018	3.955110	48	9068	3.957512	47	9118	3.959900	47
9019	3.955158	49	9069	3.957559	48	9119	3.959947	48
9020	3.955207	48	9070	3.957607	48	9120	3.959995	47
9021	3.955255	48	9071	3.957655	48	9121	3.960042	48
9022	3.955303	48	9072	3.957703	48	9122	3.960090	48
9023	3.955351	48	9073	3.957751	48	9123	3.960138	47
9024	3.955399	48	9074	3.957799	48	9124	3.960185	48
9025	3.955447	48	9075	3.957847	47	9125	3.960233	47
9026	3.955495	48	9076	3.957894	48	9126	3.960280	48
9027	3.955543	48	9077	3.957942	48	9127	3.960328	48
9028	3.955592	49	9078	3.957990	48	9128	3.960376	47
9029	3.955640	48	9079	3.958038	48	9129	3.960423	48
9030	3.955688	48	9080	3.958086	48	9130	3.960471	47
9031	3.955736	48	9081	3.958134	47	9131	3.960518	48
9032	3.955784	48	9082	3.958181	48	9132	3.960566	47
9033	3.955832	48	9083	3.958229	48	9133	3.960613	48
9034	3.955880	48	9084	3.958277	48	9134	3.960661	48
9035	3.955928	48	9085	3.958325	48	9135	3.960709	47
9036	3.955976	48	9086	3.958373	48	9136	3.960756	48
9037	3.956024	48	9087	3.958421	47	9137	3.960804	47
9038	3.956072	48	9088	3.958468	48	9138	3.960851	48
9039	3.956120	48	9089	3.958516	48	9139	3.960899	47
9040	3.956168	48	9090	3.958564	48	9140	3.960946	48
9041	3.956216	49	9091	3.958612	47	9141	3.960994	47
9042	3.956265	48	9092	3.958659	48	9142	3.961041	48
9043	3.956313	48	9093	3.958707	48	9143	3.961089	47
9044	3.956361	48	9094	3.958755	48	9144	3.961136	48
9045	3.956409	48	9095	3.958803	47	9145	3.961184	47
9046	3.956457	48	9096	3.958850	48	9146	3.961231	48
9047	3.956505	48	9097	3.958898	48	9147	3.961279	47
9048	3.956553	48	9098	3.958946	48	9148	3.961326	48
9049	3.956601	48	9099	3.958994	47	9149	3.961374	47
9050	3.956649		9100	3.959041		9150	3.961421	

Nomb.	2. 32' 30"	Dif.	Nomb.	2. 33' 20"	Dif.	Nomb.	2. 34' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
9150	3.961421	48	9200	3.963788	47	9250	3.966142	47
9151	3.961469	47	9201	3.963835	47	9251	3.966189	47
9152	3.961516	47	9202	3.963882	47	9252	3.966236	47
9153	3.961563	47	9203	3.963929	47	9253	3.966283	47
9154	3.961611	48	9204	3.963977	48	9254	3.966329	46
9155	3.961658	47	9205	3.964024	47	9255	3.966376	47
9156	3.961706	48	9206	3.964071	47	9256	3.966423	47
9157	3.961753	47	9207	3.964118	47	9257	3.966470	47
9158	3.961801	48	9208	3.964165	47	9258	3.966517	47
9159	3.961848	47	9209	3.964212	47	9259	3.966564	47
9160	3.961895	47	9210	3.964260	48	9260	3.966611	47
9161	3.961943	48	9211	3.964307	47	9261	3.966658	47
9162	3.961990	47	9212	3.964354	47	9262	3.966705	47
9163	3.962038	48	9213	3.964401	47	9263	3.966752	47
9164	3.962085	47	9214	3.964448	47	9264	3.966799	47
9165	3.962132	47	9215	3.964495	47	9265	3.966845	46
9166	3.962180	48	9216	3.964542	47	9266	3.966892	47
9167	3.962227	47	9217	3.964590	48	9267	3.966939	47
9168	3.962275	48	9218	3.964637	47	9268	3.966986	47
9169	3.962322	47	9219	3.964684	47	9269	3.967033	47
9170	3.962369	47	9220	3.964731	47	9270	3.967080	47
9171	3.962417	48	9221	3.964778	47	9271	3.967127	47
9172	3.962464	47	9222	3.964825	47	9272	3.967173	46
9173	3.962511	47	9223	3.964872	47	9273	3.967220	47
9174	3.962559	48	9224	3.964919	47	9274	3.967267	47
9175	3.962606	47	9225	3.964966	47	9275	3.967314	47
9176	3.962653	48	9226	3.965013	47	9276	3.967361	47
9177	3.962701	47	9227	3.965061	48	9277	3.967408	47
9178	3.962748	47	9228	3.965108	47	9278	3.967454	46
9179	3.962795	47	9229	3.965155	47	9279	3.967501	47
9180	3.962843	48	9230	3.965202	47	9280	3.967548	47
9181	3.962890	47	9231	3.965249	47	9281	3.967595	47
9182	3.962937	47	9232	3.965296	47	9282	3.967642	47
9183	3.962985	48	9233	3.965343	47	9283	3.967688	46
9184	3.963032	47	9234	3.965390	47	9284	3.967735	47
9185	3.963079	47	9235	3.965437	47	9285	3.967782	47
9186	3.963126	47	9236	3.965484	47	9286	3.967829	47
9187	3.963174	48	9237	3.965531	47	9287	3.967875	47
9188	3.963221	47	9238	3.965578	47	9288	3.967922	47
9189	3.963268	47	9239	3.965625	47	9289	3.967969	47
9190	3.963316	48	9240	3.965672	47	9290	3.968016	47
9191	3.963363	47	9241	3.965719	47	9291	3.968062	46
9192	3.963410	47	9242	3.965766	47	9292	3.968109	47
9193	3.963457	47	9243	3.965813	47	9293	3.968156	47
9194	3.963504	47	9244	3.965860	47	9294	3.968203	47
9195	3.963552	48	9245	3.965907	47	9295	3.968249	46
9196	3.963599	47	9246	3.965954	47	9296	3.968296	47
9197	3.963646	47	9247	3.966001	47	9297	3.968343	47
9198	3.963693	47	9248	3.966048	47	9298	3.968390	47
9199	3.963741	48	9249	3.966095	47	9299	3.968436	46
9200	3.963788	47	9250	3.966142	47	9300	3.968483	47

2. 35' 0"			2. 35' 50"			2. 36. 40"		
Nomb.	Logarith.	Dif.	Nomb.	Logarith.	Dif.	Nomb.	Logarith.	Dif.
9300	3.968483		9350	3.970812	46	9400	3.973128	46
9301	3.968530	47	9351	3.970858	46	9401	3.973174	46
9302	3.968576	46	9352	3.970904	46	9402	3.973220	46
9303	3.968623	47	9353	3.970951	47	9403	3.973266	46
9304	3.968670	47	9354	3.970997	46	9404	3.973313	47
9305	3.968716	46	9355	3.971044	47	9405	3.973359	46
9306	3.968763	47	9356	3.971090	46	9406	3.973405	46
9307	3.968810	47	9357	3.971137	47	9407	3.973451	46
9308	3.968856	46	9358	3.971183	46	9408	3.973497	46
9309	3.968903	47	9359	3.971229	46	9409	3.973543	46
9310	3.968950	47	9360	3.971276	47	9410	3.973590	47
9311	3.968996	46	9361	3.971322	46	9411	3.973636	46
9312	3.969043	47	9362	3.971369	47	9412	3.973682	46
9313	3.969090	47	9363	3.971415	46	9413	3.973728	46
9314	3.969136	46	9364	3.971461	46	9414	3.973774	46
9315	3.969183	47	9365	3.971508	47	9415	3.973820	46
9316	3.969229	46	9366	3.971554	46	9416	3.973866	46
9317	3.969276	47	9367	3.971601	47	9417	3.973913	47
9318	3.969323	47	9368	3.971647	46	9418	3.973959	46
9319	3.969369	46	9369	3.971693	46	9419	3.974005	46
9320	3.969416	47	9370	3.971740	47	9420	3.974051	46
9321	3.969463	47	9371	3.971786	46	9421	3.974097	46
9322	3.969509	46	9372	3.971832	46	9422	3.974143	46
9323	3.969556	47	9373	3.971879	47	9423	3.974189	46
9324	3.969602	46	9374	3.971925	46	9424	3.974235	46
9325	3.969649	47	9375	3.971971	46	9425	3.974281	46
9326	3.969695	46	9376	3.972018	47	9426	3.974327	47
9327	3.969742	47	9377	3.972064	46	9427	3.974374	46
9328	3.969789	47	9378	3.972110	46	9428	3.974420	46
9329	3.969835	46	9379	3.972157	47	9429	3.974466	46
9330	3.969882	47	9380	3.972203	46	9430	3.974512	46
9331	3.969928	46	9381	3.972249	46	9431	3.974558	46
9332	3.969975	47	9382	3.972295	46	9432	3.974604	46
9333	3.970021	46	9383	3.972342	47	9433	3.974650	46
9334	3.970068	47	9384	3.972388	46	9434	3.974696	46
9335	3.970114	46	9385	3.972434	46	9435	3.974742	46
9336	3.970161	47	9386	3.972481	47	9436	3.974788	46
9337	3.970207	46	9387	3.972527	46	9437	3.974834	46
9338	3.970254	47	9388	3.972573	46	9438	3.974880	46
9339	3.970300	46	9389	3.972619	46	9439	3.974926	46
9340	3.970347	47	9390	3.972666	47	9440	3.974972	46
9341	3.970393	46	9391	3.972712	46	9441	3.975018	46
9342	3.970440	47	9392	3.972758	46	9442	3.975064	46
9343	3.970486	46	9393	3.972804	46	9443	3.975110	46
9344	3.970533	47	9394	3.972851	47	9444	3.975156	46
9345	3.970579	46	9395	3.972897	46	9445	3.975202	46
9346	3.970626	47	9396	3.972943	46	9446	3.975248	46
9347	3.970672	46	9397	3.972989	46	9447	3.975294	46
9348	3.970719	47	9398	3.973035	46	9448	3.975340	46
9349	3.970765	46	9399	3.973082	47	9449	3.975386	46
9350	3.970812	47	9400	3.973128	46	9450	3.975432	46

Nomb.	2. 37' 30"	Dif.	Nomb.	2. 38' 20"	Dif.	Nomb.	2. 39' 10"	Dif.
	Logarith.			Logarith.			Logarith.	
9450	3.975432	46	9500	3.977724	45	9550	3.980003	46
9451	3.975478	46	9501	3.977769	46	9551	3.980049	45
9452	3.975524	46	9502	3.977815	46	9552	3.980094	46
9453	3.975570	46	9503	3.977861	45	9553	3.980140	45
9454	3.975616	46	9504	3.977906	46	9554	3.980185	46
9455	3.975662	45	9505	3.977952	46	9555	3.980231	45
9456	3.975707	46	9506	3.977998	45	9556	3.980276	46
9457	3.975753	46	9507	3.978043	46	9557	3.980322	45
9458	3.975799	46	9508	3.978089	46	9558	3.980367	45
9459	3.975845	46	9509	3.978135	46	9559	3.980412	46
9460	3.975891	46	9510	3.978181	45	9560	3.980458	45
9461	3.975937	46	9511	3.978226	46	9561	3.980503	46
9462	3.975983	46	9512	3.978272	45	9562	3.980549	45
9463	3.976029	46	9513	3.978317	46	9563	3.980594	46
9464	3.976075	46	9514	3.978363	46	9564	3.980640	45
9465	3.976121	45	9515	3.978409	45	9565	3.980685	45
9466	3.976166	46	9516	3.978454	46	9566	3.980730	46
9467	3.976212	46	9517	3.978500	46	9567	3.980776	45
9468	3.976258	46	9518	3.978546	45	9568	3.980821	46
9469	3.976304	46	9519	3.978591	46	9569	3.980867	45
9470	3.976350	46	9520	3.978637	46	9570	3.980912	45
9471	3.976396	46	9521	3.978683	45	9571	3.980957	46
9472	3.976442	46	9522	3.978728	46	9572	3.981003	45
9473	3.976488	45	9523	3.978774	45	9573	3.981048	45
9474	3.976533	46	9524	3.978819	46	9574	3.981093	46
9475	3.976579	46	9525	3.978865	46	9575	3.981139	45
9476	3.976625	46	9526	3.978911	45	9576	3.981184	45
9477	3.976671	46	9527	3.978956	46	9577	3.981229	46
9478	3.976717	46	9528	3.979002	45	9578	3.981275	45
9479	3.976763	45	9529	3.979047	46	9579	3.981320	46
9480	3.976808	46	9530	3.979093	45	9580	3.981366	45
9481	3.976854	46	9531	3.979138	46	9581	3.981411	45
9482	3.976900	46	9532	3.979184	46	9582	3.981456	45
9483	3.976946	46	9533	3.979230	45	9583	3.981501	46
9484	3.976992	45	9534	3.979275	46	9584	3.981547	45
9485	3.977037	46	9535	3.979321	45	9585	3.981592	45
9486	3.977083	46	9536	3.979366	46	9586	3.981637	46
9487	3.977129	46	9537	3.979412	45	9587	3.981683	45
9488	3.977175	45	9538	3.979457	46	9588	3.981728	45
9489	3.977220	46	9539	3.979503	45	9589	3.981773	46
9490	3.977266	46	9540	3.979548	46	9590	3.981819	45
9491	3.977312	46	9541	3.979594	45	9591	3.981864	45
9492	3.977358	45	9542	3.979639	46	9592	3.981909	45
9493	3.977403	46	9543	3.979685	45	9593	3.981954	46
9494	3.977449	46	9544	3.979730	46	9594	3.982000	45
9495	3.977495	46	9545	3.979776	45	9595	3.982045	45
9496	3.977541	45	9546	3.979821	46	9596	3.982090	45
9497	3.977586	46	9547	3.979867	45	9597	3.982135	46
9498	3.977632	46	9548	3.979912	46	9598	3.982181	45
9499	3.977678	46	9549	3.979958	45	9599	3.982226	45
9500	3.977724	46	9550	3.980003	45	9600	3.982271	45

Nomb.	2. 40' 0"	Dif.	Nomb.	2. 40' 50"	Dif.	Nomb.	2. 41' 40"	Dif.
	Logarith.			Logarith.			Logarith.	
9600	3.982271	45	9650	3.984527	45	9700	3.986772	44
9601	3.982316	46	9651	3.984572	45	9701	3.986816	45
9602	3.982362	45	9652	3.984617	45	9702	3.986861	45
9603	3.982407	45	9653	3.984662	45	9703	3.986906	45
9604	3.982452	45	9654	3.984707	45	9704	3.986951	45
9605	3.982497	46	9655	3.984752	45	9705	3.986996	44
9606	3.982543	45	9656	3.984797	45	9706	3.987040	45
9607	3.982588	45	9657	3.984842	45	9707	3.987085	45
9608	3.982633	45	9658	3.984887	45	9708	3.987130	45
9609	3.982678	45	9659	3.984932	45	9709	3.987175	44
9610	3.982723	46	9660	3.984977	45	9710	3.987219	45
9611	3.982769	45	9661	3.985022	45	9711	3.987264	45
9612	3.982814	45	9662	3.985067	45	9712	3.987309	44
9613	3.982859	45	9663	3.985112	45	9713	3.987353	45
9614	3.982904	45	9664	3.985157	45	9714	3.987398	45
9615	3.982949	45	9665	3.985202	45	9715	3.987443	45
9616	3.982994	46	9666	3.985247	45	9716	3.987488	44
9617	3.983040	45	9667	3.985292	45	9717	3.987532	45
9618	3.983085	45	9668	3.985337	45	9718	3.987577	45
9619	3.983130	45	9669	3.985382	44	9719	3.987622	44
9620	3.983175	45	9670	3.985426	45	9720	3.987666	45
9621	3.983220	45	9671	3.985471	45	9721	3.987711	45
9622	3.983265	45	9672	3.985516	45	9722	3.987756	44
9623	3.983310	45	9673	3.985561	45	9723	3.987800	45
9624	3.983356	46	9674	3.985606	45	9724	3.987845	45
9625	3.983401	45	9675	3.985651	45	9725	3.987890	44
9626	3.983446	45	9676	3.985696	45	9726	3.987934	44
9627	3.983491	45	9677	3.985741	45	9727	3.987979	45
9628	3.983536	45	9678	3.985786	44	9728	3.988024	44
9629	3.983581	45	9679	3.985830	45	9729	3.988068	45
9630	3.983626	45	9680	3.985875	45	9730	3.988113	44
9631	3.983671	45	9681	3.985920	45	9731	3.988157	45
9632	3.983716	46	9682	3.985965	45	9732	3.988202	45
9633	3.983762	45	9683	3.986010	45	9733	3.988247	44
9634	3.983807	45	9684	3.986055	45	9734	3.988291	45
9635	3.983852	45	9685	3.986100	44	9735	3.988336	45
9636	3.983897	45	9686	3.986144	45	9736	3.988381	44
9637	3.983942	45	9687	3.986189	45	9737	3.988425	45
9638	3.983987	45	9688	3.986234	45	9738	3.988470	44
9639	3.984032	45	9689	3.986279	45	9739	3.988514	45
9640	3.984077	45	9690	3.986324	45	9740	3.988559	45
9641	3.984122	45	9691	3.986369	44	9741	3.988604	44
9642	3.984167	45	9692	3.986413	45	9742	3.988648	45
9643	3.984212	45	9693	3.986458	45	9743	3.988693	44
9644	3.984257	45	9694	3.986503	45	9744	3.988737	45
9645	3.984302	45	9695	3.986548	45	9745	3.988782	44
9646	3.984347	45	9696	3.986593	44	9746	3.988826	45
9647	3.984392	45	9697	3.986637	45	9747	3.988871	45
9648	3.984437	45	9698	3.986682	45	9748	3.988916	44
9649	3.984482	45	9699	3.986727	45	9749	3.988960	45
9650	3.984527	45	9700	3.986772	45	9750	3.989005	45

Nomb.	2. 42 30" Logarith.	Dif.	Nomb.	2. 43 20" Logarith.	Dif.	Nomb.	2. 44 10" Logarith.	Dif.
9750	3.989005	44	9800	3.991226	44	9850	3.993436	44
9751	3.989049	45	9801	3.991270	45	9851	3.993480	44
9752	3.989094	44	9802	3.991315	44	9852	3.993524	44
9753	3.989138	44	9803	3.991359	44	9853	3.993568	45
9754	3.989183	45	9804	3.991403	44	9854	3.993613	44
9755	3.989227	44	9805	3.991448	45	9855	3.993657	44
9756	3.989272	45	9806	3.991492	44	9856	3.993701	44
9757	3.989316	44	9807	3.991536	44	9857	3.993745	44
9758	3.989361	45	9808	3.991580	44	9858	3.993789	44
9759	3.989405	44	9809	3.991625	45	9859	3.993833	44
9760	3.989450	45	9810	3.991669	44	9860	3.993877	44
9761	3.989494	44	9811	3.991713	44	9861	3.993921	44
9762	3.989539	45	9812	3.991758	45	9862	3.993965	44
9763	3.989583	44	9813	3.991802	44	9863	3.994009	44
9764	3.989628	45	9814	3.991846	44	9864	3.994053	44
9765	3.989672	44	9815	3.991890	44	9865	3.994097	44
9766	3.989717	45	9816	3.991935	45	9866	3.994141	44
9767	3.989761	44	9817	3.991979	44	9867	3.994185	44
9768	3.989806	45	9818	3.992023	44	9868	3.994229	44
9769	3.989850	44	9819	3.992067	44	9869	3.994273	44
9770	3.989895	45	9820	3.992111	44	9870	3.994317	44
9771	3.989939	44	9821	3.992156	45	9871	3.994361	44
9772	3.989983	44	9822	3.992200	44	9872	3.994405	44
9773	3.990028	45	9823	3.992244	44	9873	3.994449	44
9774	3.990072	44	9824	3.992288	44	9874	3.994493	44
9775	3.990117	45	9825	3.992333	45	9875	3.994537	44
9776	3.990161	44	9826	3.992377	44	9876	3.994581	44
9777	3.990206	45	9827	3.992421	44	9877	3.994625	44
9778	3.990250	44	9828	3.992465	44	9878	3.994669	44
9779	3.990294	44	9829	3.992509	44	9879	3.994713	44
9780	3.990339	45	9830	3.992554	45	9880	3.994757	44
9781	3.990383	44	9831	3.992598	44	9881	3.994801	44
9782	3.990428	45	9832	3.992642	44	9882	3.994845	44
9783	3.990472	44	9833	3.992686	44	9883	3.994889	44
9784	3.990516	44	9834	3.992730	44	9884	3.994933	44
9785	3.990561	45	9835	3.992774	44	9885	3.994977	44
9786	3.990605	44	9836	3.992819	45	9886	3.995021	44
9787	3.990650	45	9837	3.992863	44	9887	3.995065	44
9788	3.990694	44	9838	3.992907	44	9888	3.995108	43
9789	3.990738	44	9839	3.992951	44	9889	3.995152	44
9790	3.990783	45	9840	3.992995	44	9890	3.995196	44
9791	3.990827	44	9841	3.993039	44	9891	3.995240	44
9792	3.990871	44	9842	3.993083	44	9892	3.995284	44
9793	3.990916	45	9843	3.993127	44	9893	3.995328	44
9794	3.990960	44	9844	3.993172	45	9894	3.995372	44
9795	3.991004	44	9845	3.993216	44	9895	3.995416	44
9796	3.991049	45	9846	3.993260	44	9896	3.995460	44
9797	3.991093	44	9847	3.993304	44	9897	3.995504	44
9798	3.991137	44	9848	3.993348	44	9898	3.995547	43
9799	3.991182	44	9849	3.993392	44	9899	3.995591	44
9800	3.991226	45	9850	3.993436	44	9900	3.995635	44

Nomb.	2. 45' 0"	Dif.	Nomb.	2. 45' 50"	Dif.	Nomb.	2. 46' 40"	D.
	Logarith.			Logarith.			Logarith.	
9900	3.995635	44	9950	3.997823	44	10000	4.000000	43
9901	3.995679	44	9951	3.997867	43	10001	4.000043	44
9902	3.995723	44	9952	3.997910	44	10002	4.000087	43
9903	3.995767	44	9953	3.997954	44	10003	4.000130	44
9904	3.995811	43	9954	3.997998	43	10004	4.000174	43
9905	3.995854	44	9955	3.998041	44	10005	4.000217	43
9906	3.995898	44	9956	3.998085	44	10006	4.000260	44
9907	3.995942	44	9957	3.998129	43	10007	4.000304	43
9908	3.995986	44	9958	3.998172	44	10008	4.000347	44
9909	3.996030	44	9959	3.998216	43	10009	4.000391	43
9910	3.996074	43	9960	3.998259	44	10010	4.000434	43
9911	3.996117	44	9961	3.998303	44	10011	4.000477	44
9912	3.996161	44	9962	3.998347	43	10012	4.000521	43
9913	3.996205	44	9963	3.998390	44	10013	4.000564	44
9914	3.996249	44	9964	3.998434	43	10014	4.000608	43
9915	3.996293	44	9965	3.998477	44	10015	4.000651	43
9916	3.996337	43	9966	3.998521	43	10016	4.000694	44
9917	3.996380	44	9967	3.998564	44	10017	4.000738	43
9918	3.996424	44	9968	3.998608	44	10018	4.000781	43
9919	3.996468	44	9969	3.998652	43	10019	4.000824	44
9920	3.996512	43	9970	3.998695	44	10020	4.000868	43
9921	3.996555	44	9971	3.998739	43	10021	4.000911	43
9922	3.996599	44	9972	3.998782	44	10022	4.000954	44
9923	3.996643	44	9973	3.998826	43	10023	4.000998	43
9924	3.996687	44	9974	3.998869	44	10024	4.001041	43
9925	3.996731	43	9975	3.998913	43	10025	4.001084	44
9926	3.996774	44	9976	3.998956	44	10026	4.001128	43
9927	3.996818	44	9977	3.999000	43	10027	4.001171	43
9928	3.996862	44	9978	3.999043	44	10028	4.001214	44
9929	3.996906	43	9979	3.999087	44	10029	4.001258	43
9930	3.996949	44	9980	3.999131	43	10030	4.001301	43
9931	3.996993	44	9981	3.999174	44	10031	4.001344	44
9932	3.997037	43	9982	3.999218	43	10032	4.001388	43
9933	3.997080	44	9983	3.999261	44	10033	4.001431	43
9934	3.997124	44	9984	3.999305	43	10034	4.001474	43
9935	3.997168	44	9985	3.999348	44	10035	4.001517	44
9936	3.997212	43	9986	3.999392	43	10036	4.001561	43
9937	3.997255	44	9987	3.999435	44	10037	4.001604	43
9938	3.997299	44	9988	3.999479	43	10038	4.001647	43
9939	3.997343	43	9989	3.999522	43	10039	4.001690	44
9940	3.997386	44	9990	3.999565	44	10040	4.001734	43
9941	3.997430	44	9991	3.999609	43	10041	4.001777	43
9942	3.997474	43	9992	3.999652	44	10042	4.001820	43
9943	3.997517	44	9993	3.999696	43	10043	4.001863	44
9944	3.997561	44	9994	3.999739	44	10044	4.001907	43
9945	3.997605	43	9995	3.999783	43	10045	4.001950	43
9946	3.997648	44	9996	3.999826	44	10046	4.001993	43
9947	3.997692	44	9997	3.999870	43	10047	4.002036	44
9948	3.997736	43	9998	3.999913	44	10048	4.002080	43
9949	3.997779	44	9999	3.999957	43	10049	4.002123	43
9950	3.997823		10000	4.000000		10050	4.002166	

Nomb.	2. 47' 30" Logarith.	D.	Nomb.	2. 48' 20" Logarith.	D.	Nomb.	2. 49' 10" Logarith.	D.
10050	4.002166	43	10100	4.004321	43	10150	4.006466	43
10051	4.002209	43	10101	4.004364	43	10151	4.006509	43
10052	4.002252	43	10102	4.004407	43	10152	4.006552	42
10053	4.002296	44	10103	4.004450	43	10153	4.006594	42
10054	4.002339	43	10104	4.004493	43	10154	4.006637	43
10055	4.002382	43	10105	4.004536	43	10155	4.006680	43
10056	4.002425	43	10106	4.004579	43	10156	4.006723	42
10057	4.002468	43	10107	4.004622	43	10157	4.006765	43
10058	4.002512	44	10108	4.004665	43	10158	4.006808	43
10059	4.002555	43	10109	4.004708	43	10159	4.006851	43
10060	4.002598	43	10110	4.004751	43	10160	4.006894	42
10061	4.002641	43	10111	4.004794	43	10161	4.006936	43
10062	4.002684	43	10112	4.004837	43	10162	4.006979	43
10063	4.002727	44	10113	4.004880	43	10163	4.007022	43
10064	4.002771	43	10114	4.004923	43	10164	4.007065	42
10065	4.002814	43	10115	4.004966	43	10165	4.007107	43
10066	4.002857	43	10116	4.005009	43	10166	4.007150	43
10067	4.002900	43	10117	4.005052	43	10167	4.007193	43
10068	4.002943	43	10118	4.005095	43	10168	4.007236	42
10069	4.002986	43	10119	4.005138	43	10169	4.007278	43
10070	4.003029	44	10120	4.005181	42	10170	4.007321	43
10071	4.003073	43	10121	4.005223	43	10171	4.007364	42
10072	4.003116	43	10122	4.005266	43	10172	4.007406	43
10073	4.003159	43	10123	4.005309	43	10173	4.007449	43
10074	4.003202	43	10124	4.005352	43	10174	4.007492	42
10075	4.003245	43	10125	4.005395	43	10175	4.007534	43
10076	4.003288	43	10126	4.005438	43	10176	4.007577	43
10077	4.003331	43	10127	4.005481	43	10177	4.007620	42
10078	4.003374	43	10128	4.005524	43	10178	4.007662	43
10079	4.003417	43	10129	4.005567	42	10179	4.007705	43
10080	4.003461	44	10130	4.005609	43	10180	4.007748	42
10081	4.003504	43	10131	4.005652	43	10181	4.007790	43
10082	4.003547	43	10132	4.005695	43	10182	4.007833	43
10083	4.003590	43	10133	4.005738	43	10183	4.007876	42
10084	4.003633	43	10134	4.005781	43	10184	4.007918	43
10085	4.003676	43	10135	4.005824	43	10185	4.007961	43
10086	4.003719	43	10136	4.005867	42	10186	4.008004	42
10087	4.003762	43	10137	4.005909	43	10187	4.008046	43
10088	4.003805	43	10138	4.005952	43	10188	4.008089	43
10089	4.003848	43	10139	4.005995	43	10189	4.008132	42
10090	4.003891	43	10140	4.006038	43	10190	4.008174	43
10091	4.003934	43	10141	4.006081	43	10191	4.008217	42
10092	4.003977	43	10142	4.006124	42	10192	4.008259	43
10093	4.004020	43	10143	4.006166	43	10193	4.008302	43
10094	4.004063	43	10144	4.006209	43	10194	4.008345	42
10095	4.004106	43	10145	4.006252	43	10195	4.008387	43
10096	4.004149	43	10146	4.006295	43	10196	4.008430	42
10097	4.004192	43	10147	4.006338	42	10197	4.008472	43
10098	4.004235	43	10148	4.006380	43	10198	4.008515	43
10099	4.004278	43	10149	4.006423	43	10199	4.008558	42
10100	4.004321	43	10150	4.006466	43	10200	4.008600	42

Numb.	2. 50' 0"	D.	Numb.	2. 50' 50"	D.	Numb.	2. 51' 40"	D.
	Logarith.			Logarith.			Logarith.	
10200	4.008600		10250	4.010724	42	10300	4.012837	42
10201	4.008643	43	10251	4.010766	43	10301	4.012879	43
10202	4.008685	42	10252	4.010809	42	10302	4.012922	42
10203	4.008728	43	10253	4.010851	42	10303	4.012964	42
10204	4.008770	42	10254	4.010893	42	10304	4.013006	42
		43			43			42
10205	4.008813	43	10255	4.010936	42	10305	4.013048	42
10206	4.008856	42	10256	4.010978	42	10306	4.013090	42
10207	4.008898	42	10257	4.011020	42	10307	4.013132	42
10208	4.008941	43	10258	4.011063	42	10308	4.013174	42
10209	4.008983	42	10259	4.011105	43	10309	4.013217	42
		43			42			42
10210	4.009026	42	10260	4.011147	43	10310	4.013259	42
10211	4.009068	42	10261	4.011190	42	10311	4.013301	42
10212	4.009111	43	10262	4.011232	42	10312	4.013343	42
10213	4.009153	42	10263	4.011274	42	10313	4.013385	42
10214	4.009196	43	10264	4.011317	43	10314	4.013427	42
		42			42			42
10215	4.009238	42	10265	4.011359	42	10315	4.013469	42
10216	4.009281	43	10266	4.011401	42	10316	4.013511	42
10217	4.009323	42	10267	4.011444	43	10317	4.013553	42
10218	4.009366	43	10268	4.011486	42	10318	4.013595	43
10219	4.009408	42	10269	4.011528	42	10319	4.013638	42
		43			42			42
10220	4.009451	42	10270	4.011570	42	10320	4.013680	42
10221	4.009493	43	10271	4.011613	43	10321	4.013722	42
10222	4.009536	42	10272	4.011655	42	10322	4.013764	42
10223	4.009578	42	10273	4.011697	42	10323	4.013806	42
10224	4.009621	43	10274	4.011740	43	10324	4.013848	42
		42			42			42
10225	4.009663	42	10275	4.011782	42	10325	4.013890	42
10226	4.009706	43	10276	4.011824	42	10326	4.013932	42
10227	4.009748	42	10277	4.011866	42	10327	4.013974	42
10228	4.009791	43	10278	4.011909	43	10328	4.014016	42
10229	4.009833	42	10279	4.011951	42	10329	4.014058	42
		43			42			42
10230	4.009876	42	10280	4.011993	42	10330	4.014100	42
10231	4.009918	42	10281	4.012035	42	10331	4.014142	42
10232	4.009961	43	10282	4.012078	43	10332	4.014184	42
10233	4.010003	42	10283	4.012120	42	10333	4.014226	42
10234	4.010045	42	10284	4.012162	42	10334	4.014268	42
		43			42			42
10235	4.010088	42	10285	4.012204	42	10335	4.014310	42
10236	4.010130	42	10286	4.012247	43	10336	4.014353	43
10237	4.010173	43	10287	4.012289	42	10337	4.014395	42
10238	4.010215	42	10288	4.012331	42	10338	4.014437	42
10239	4.010258	43	10289	4.012373	42	10339	4.014479	42
		42			42			42
10240	4.010300	42	10290	4.012415	42	10340	4.014521	42
10241	4.010342	42	10291	4.012458	43	10341	4.014563	42
10242	4.010385	43	10292	4.012500	42	10342	4.014605	42
10243	4.010427	42	10293	4.012542	42	10343	4.014647	42
10244	4.010470	43	10294	4.012584	42	10344	4.014689	42
		42			42			41
10245	4.010512	42	10295	4.012626	42	10345	4.014730	42
10246	4.010554	42	10296	4.012669	43	10346	4.014772	42
10247	4.010597	43	10297	4.012711	42	10347	4.014814	42
10248	4.010639	42	10298	4.012753	42	10348	4.014856	42
10249	4.010681	42	10299	4.012795	42	10349	4.014898	42
10250	4.010724	43	10300	4.012837	42	10350	4.014940	42

Nomb.	3. 52' 30"	D.	Nomb.	3. 53' 20"	D.	Nomb.	3. 5.
	Logarith.			Logarith.			Log
13950	4.144574		14000	4.146128		14050	4.14
13951	4.144605	31	14001	4.146159	31	14051	4.14
13952	4.144636	31	14002	4.146190	31	14052	4.14
13953	4.144668	32	14003	4.146221	31	14053	4.14
13954	4.144699	31	14004	4.146252	31	14054	4.14
13955	4.144730	31	14005	4.146283	31	14055	4.14
13956	4.144761	31	14006	4.146314	31	14056	4.14
13957	4.144792	31	14007	4.146345	31	14057	4.14
13958	4.144823	31	14008	4.146376	31	14058	4.14
13959	4.144854	31	14009	4.146407	31	14059	4.14
13960	4.144885	31	14010	4.146438	31	14060	4.14
13961	4.144917	32	14011	4.146469	31	14061	4.14
13962	4.144948	31	14012	4.146500	31	14062	4.14
13963	4.144979	31	14013	4.146531	31	14063	4.14
13964	4.145010	31	14014	4.146562	31	14064	4.14
13965	4.145041	31	14015	4.146593	31	14065	4.14
13966	4.145072	31	14016	4.146624	31	14066	4.14
13967	4.145103	31	14017	4.146655	31	14067	4.14
13968	4.145134	31	14018	4.146686	31	14068	4.14
13969	4.145165	31	14019	4.146717	31	14069	4.14
13970	4.145196	31	14020	4.146748	31	14070	4.14
13971	4.145227	31	14021	4.146779	31	14071	4.14
13972	4.145259	32	14022	4.146810	31	14072	4.14
13973	4.145290	31	14023	4.146841	31	14073	4.14
13974	4.145321	31	14024	4.146872	31	14074	4.14
13975	4.145352	31	14025	4.146903	31	14075	4.14
13976	4.145383	31	14026	4.146934	31	14076	4.14
13977	4.145414	31	14027	4.146965	31	14077	4.14
13978	4.145445	31	14028	4.146996	31	14078	4.14
13979	4.145476	31	14029	4.147027	31	14079	4.14
13980	4.145507	31	14030	4.147058	31	14080	4.14
13981	4.145538	31	14031	4.147089	31	14081	4.14
13982	4.145569	31	14032	4.147120	31	14082	4.14
13983	4.145600	31	14033	4.147151	31	14083	4.14
13984	4.145631	31	14034	4.147181	30	14084	4.14
13985	4.145662	31	14035	4.147212	31	14085	4.14
13986	4.145694	32	14036	4.147243	31	14086	4.14
13987	4.145725	31	14037	4.147274	31	14087	4.14
13988	4.145756	31	14038	4.147305	31	14088	4.14
13989	4.145787	31	14039	4.147336	31	14089	4.14
13990	4.145818	31	14040	4.147367	31	14090	4.14
13991	4.145849	31	14041	4.147398	31	14091	4.14
13992	4.145880	31	14042	4.147429	31	14092	4.14

3. 55' 0"	D.	Nomb.	3. 55' 50"	D.	Nomb.	3. 56' 40"	D.
Logarith.			Logarith.			Logarith.	
.149219		14150	4.150756		14200	4.152288	
.149250	31	14151	4.150787	31	14201	4.152319	31
.149281	31	14152	4.150818	31	14202	4.152350	31
.149312	31	14153	4.150849	31	14203	4.152380	30
.149342	30	14154	4.150879	30	14204	4.152411	31
.149373	31	14155	4.150910	31	14205	4.152441	30
.149404	31	14156	4.150941	31	14206	4.152472	31
.149435	31	14157	4.150971	30	14207	4.152502	30
.149465	30	14158	4.151002	31	14208	4.152533	31
.149496	31	14159	4.151033	31	14209	4.152564	31
.149527	31	14160	4.151063	30	14210	4.152594	30
.149558	31	14161	4.151094	31	14211	4.152625	31
.149589	31	14162	4.151125	31	14212	4.152655	30
.149619	30	14163	4.151155	30	14213	4.152686	31
.149650	31	14164	4.151186	31	14214	4.152716	30
.149681	31	14165	4.151217	31	14215	4.152747	31
.149712	31	14166	4.151247	30	14216	4.152777	30
.149742	30	14167	4.151278	31	14217	4.152808	31
.149773	31	14168	4.151309	31	14218	4.152839	31
.149804	31	14169	4.151339	30	14219	4.152869	30
.149835	31	14170	4.151370	31	14220	4.152900	31
.149865	30	14171	4.151400	30	14221	4.152930	30
.149896	31	14172	4.151431	31	14222	4.152961	31
.149927	31	14173	4.151462	31	14223	4.152991	30
.149958	31	14174	4.151492	30	14224	4.153022	31
.149988	30	14175	4.151523	31	14225	4.153052	30
.150019	31	14176	4.151554	31	14226	4.153083	31
.150050	31	14177	4.151584	30	14227	4.153113	30
.150081	31	14178	4.151615	31	14228	4.153144	31
.150111	30	14179	4.151646	31	14229	4.153174	30
.150142	31	14180	4.151676	30	14230	4.153205	31
.150173	31	14181	4.151707	31	14231	4.153235	30
.150204	31	14182	4.151737	30	14232	4.153266	31
.150234	30	14183	4.151768	31	14233	4.153296	30
.150265	31	14184	4.151799	31	14234	4.153327	31
.150296	31	14185	4.151829	30	14235	4.153357	30
.150327	31	14186	4.151860	31	14236	4.153388	31
.150357	30	14187	4.151891	31	14237	4.153418	30
.150388	31	14188	4.151921	30	14238	4.153449	31
.150419	31	14189	4.151952	31	14239	4.153479	30
.150449	30	14190	4.151982	30	14240	4.153510	31
.150480	31	14191	4.152013	31	14241	4.153540	30
.150511	31	14192	4.152044	31	14242	4.153571	31
.150542	31	14193	4.152074	30	14243	4.153601	30
.150572	30	14194	4.152105	31	14244	4.153632	31
.150603	31	14195	4.152135	30	14245	4.153662	30
.150634	31	14196	4.152166	31	14246	4.153693	31
.150664	30	14197	4.152197	31	14247	4.153723	30
.150695	31	14198	4.152227	30	14248	4.153754	31
.150726	31	14199	4.152258	31	14249	4.153784	30
.150756	30	14200	4.152288	30	14250	4.153815	31

Nomb.	3. 57' 30"	D.	Nomb.	3. 58' 20"	D.	Nomb.	3
	Logarith.			Logarith.			
14250	4.153815		14300	4.155336		14350	4
14251	4.153845	30	14301	4.155366	30	14351	4
14252	4.153876	31	14302	4.155397	31	14352	4
14253	4.153906	30	14303	4.155427	30	14353	4
14254	4.153937	31	14304	4.155458	31	14354	4
14255	4.153967	30	14305	4.155488	30	14355	4
14256	4.153998	31	14306	4.155518	30	14356	4
14257	4.154028	30	14307	4.155549	31	14357	4
14258	4.154059	31	14308	4.155579	30	14358	4
14259	4.154089	30	14309	4.155609	30	14359	4
14260	4.154120	31	14310	4.155640	31	14360	4
14261	4.154150	30	14311	4.155670	30	14361	4
14262	4.154180	30	14312	4.155700	30	14362	4
14263	4.154211	31	14313	4.155731	31	14363	4
14264	4.154241	30	14314	4.155761	30	14364	4
14265	4.154272	31	14315	4.155791	30	14365	4
14266	4.154302	30	14316	4.155822	31	14366	4
14267	4.154333	31	14317	4.155852	30	14367	4
14268	4.154363	30	14318	4.155882	30	14368	4
14269	4.154394	31	14319	4.155913	31	14369	4
14270	4.154424	30	14320	4.155943	30	14370	4
14271	4.154454	30	14321	4.155973	30	14371	4
14272	4.154485	31	14322	4.156004	31	14372	4
14273	4.154515	30	14323	4.156034	30	14373	4
14274	4.154546	31	14324	4.156064	30	14374	4
14275	4.154576	30	14325	4.156095	31	14375	4
14276	4.154607	31	14326	4.156125	30	14376	4
14277	4.154637	30	14327	4.156155	30	14377	4
14278	4.154667	30	14328	4.156186	31	14378	4
14279	4.154698	31	14329	4.156216	30	14379	4
14280	4.154728	30	14330	4.156246	30	14380	4
14281	4.154759	31	14331	4.156276	30	14381	4
14282	4.154789	30	14332	4.156307	31	14382	4
14283	4.154819	30	14333	4.156337	30	14383	4
14284	4.154850	31	14334	4.156367	30	14384	4
14285	4.154880	30	14335	4.156398	31	14385	4
14286	4.154911	31	14336	4.156428	30	14386	4
14287	4.154941	30	14337	4.156458	30	14387	4
14288	4.154971	30	14338	4.156489	31	14388	4
14289	4.155002	31	14339	4.156519	30	14389	4
14290	4.155032	30	14340	4.156549	30	14390	4
14291	4.155063	31	14341	4.156579	30	14391	4
14292	4.155093	30	14342	4.156610	31	14392	4
14293	4.155123	30	14343	4.156640	30	14393	4
14294	4.155154	31	14344	4.156670	30	14394	4
14295	4.155184	30	14345	4.156701	31	14395	4
14296	4.155215	31	14346	4.156731	30	14396	4
14297	4.155245	30	14347	4.156761	30	14397	4
14298	4.155275	30	14348	4.156791	30	14398	4
14299	4.155306	31	14349	4.156822	31	14399	4
14300	4.155336	30	14350	4.156852	30	14400	4

Nomb.	3. 0° 0'	D.	Nomb.	3. 0° 50'	D.	Nomb.	3. 1° 40'	D.
	Logarith.			Logarith.			Logarith.	
10800	4.033424		10850	4.035430		10900	4.037426	
10801	4.033464	40	10851	4.035470	40	10901	4.037466	40
10802	4.033504	40	10852	4.035510	40	10902	4.037506	40
10803	4.033544	40	10853	4.035550	40	10903	4.037546	40
10804	4.033585	41	10854	4.035590	40	10904	4.037586	40
10805	4.033625	40	10855	4.035630	40	10905	4.037626	40
10806	4.033665	40	10856	4.035670	40	10906	4.037665	39
10807	4.033705	40	10857	4.035710	40	10907	4.037705	40
10808	4.033745	40	10858	4.035750	40	10908	4.037745	40
10809	4.033786	41	10859	4.035790	40	10909	4.037785	40
10810	4.033826	40	10860	4.035830	40	10910	4.037825	40
10811	4.033866	40	10861	4.035870	40	10911	4.037865	39
10812	4.033906	40	10862	4.035910	40	10912	4.037904	40
10813	4.033946	40	10863	4.035950	40	10913	4.037944	40
10814	4.033986	41	10864	4.035990	40	10914	4.037984	40
10815	4.034027	40	10865	4.036030	40	10915	4.038024	40
10816	4.034067	40	10866	4.036070	40	10916	4.038064	39
10817	4.034107	40	10867	4.036110	40	10917	4.038103	40
10818	4.034147	40	10868	4.036150	40	10918	4.038143	40
10819	4.034187	40	10869	4.036190	40	10919	4.038183	40
10820	4.034227	40	10870	4.036230	39	10920	4.038223	39
10821	4.034267	41	10871	4.036269	40	10921	4.038262	40
10822	4.034308	40	10872	4.036309	40	10922	4.038302	40
10823	4.234348	40	10873	4.036349	40	10923	4.038342	40
10824	4.034388	40	10874	4.036389	40	10924	4.038382	39
10825	4.034428	40	10875	4.036429	40	10925	4.038421	40
10826	4.034468	40	10876	4.036469	40	10926	4.038461	40
10827	4.034508	40	10877	4.036509	40	10927	4.038501	40
10828	4.034548	40	10878	4.036549	40	10928	4.038541	39
10829	4.034588	40	10879	4.036589	40	10929	4.038580	40
10830	4.034628	41	10880	4.036629	40	10930	4.038620	40
10831	4.034669	40	10881	4.036669	40	10931	4.038660	40
10832	4.034709	40	10882	4.036709	40	10932	4.038700	39
10833	4.034749	40	10883	4.036749	40	10933	4.038739	40
10834	4.034789	40	10884	4.036789	39	10934	4.038779	40
10835	4.034829	40	10885	4.036828	40	10935	4.038819	40
10836	4.034869	40	10886	4.036868	40	10936	4.038859	39
10837	4.034909	40	10887	4.036908	40	10937	4.038898	40
10838	4.034949	40	10888	4.036948	40	10938	4.038938	40
10839	4.034989	40	10889	4.036988	40	10939	4.038978	39
10840	4.035029	40	10890	4.037028	40	10940	4.039017	40
10841	4.035069	40	10891	4.037068	40	10941	4.039057	40
10842	4.035109	40	10892	4.037108	40	10942	4.039097	39
10843	4.035149	41	10893	4.037148	39	10943	4.039136	40
10844	4.035190	40	10894	4.037187	40	10944	4.039176	40
10845	4.035230	40	10895	4.037227	40	10945	4.039216	39
10846	4.035270	40	10896	4.037267	40	10946	4.039255	40
10847	4.035310	40	10897	4.037307	40	10947	4.039295	40
10848	4.035350	40	10898	4.037347	40	10948	4.039335	39
10849	4.035390	40	10899	4.037387	39	10949	4.039374	40
10850	4.035430	40	10900	4.037426	39	10950	4.039414	40

Nomb.	3. 2' 30" Logarith.	D.	Nomb.	3. 3' 20" Logarith.	D.	Nomb.	3. 4' 10" Logarith.	D.
10950	4.039414	40	11000	4.041393	39	11050	4.043362	40
10951	4.039454	39	11001	4.041432	40	11051	4.043402	39
10952	4.039493	40	11002	4.041472	39	11052	4.043441	39
10953	4.039533	40	11003	4.041511	40	11053	4.043480	39
10954	4.039573	39	11004	4.041551	40	11054	4.043519	39
10955	4.039612	40	11005	4.041590	39	11055	4.043559	40
10956	4.039652	40	11006	4.041630	40	11056	4.043598	39
10957	4.039692	40	11007	4.041669	39	11057	4.043637	39
10958	4.039731	39	11008	4.041708	39	11058	4.043677	40
10959	4.039771	40	11009	4.041748	40	11059	4.043716	39
10960	4.039811	40	11010	4.041787	39	11060	4.043755	39
10961	4.039850	39	11011	4.041827	40	11061	4.043794	39
10962	4.039890	40	11012	4.041866	39	11062	4.043834	40
10963	4.039929	39	11013	4.041906	40	11063	4.043873	39
10964	4.039969	40	11014	4.041945	39	11064	4.043912	39
10965	4.040009	40	11015	4.041985	40	11065	4.043951	39
10966	4.040048	39	11016	4.042024	39	11066	4.043991	40
10967	4.040088	40	11017	4.042063	39	11067	4.044030	39
10968	4.040127	39	11018	4.042103	40	11068	4.044069	39
10969	4.040167	40	11019	4.042142	39	11069	4.044108	39
10970	4.040207	40	11020	4.042182	40	11070	4.044148	40
10971	4.040246	39	11021	4.042221	39	11071	4.044187	39
10972	4.040286	40	11022	4.042260	39	11072	4.044226	39
10973	4.040325	39	11023	4.042300	40	11073	4.044265	39
10974	4.040365	40	11024	4.042339	39	11074	4.044305	40
10975	4.040405	40	11025	4.042379	40	11075	4.044344	39
10976	4.040444	39	11026	4.042418	39	11076	4.044383	39
10977	4.040484	40	11027	4.042457	39	11077	4.044422	39
10978	4.040523	39	11028	4.042497	40	11078	4.044461	39
10979	4.040563	40	11029	4.042536	39	11079	4.044501	40
10980	4.040602	39	11030	4.042576	40	11080	4.044540	39
10981	4.040642	40	11031	4.042615	39	11081	4.044579	39
10982	4.040681	39	11032	4.042654	39	11082	4.044618	39
10983	4.040721	40	11033	4.042694	40	11083	4.044657	39
10984	4.040761	40	11034	4.042733	39	11084	4.044697	40
10985	4.040800	39	11035	4.042772	39	11085	4.044736	39
10986	4.040840	40	11036	4.042812	40	11086	4.044775	39
10987	4.040879	39	11037	4.042851	39	11087	4.044814	39
10988	4.040919	40	11038	4.042890	39	11088	4.044853	39
10989	4.040958	39	11039	4.042930	40	11089	4.044892	39
10990	4.040998	40	11040	4.042969	39	11090	4.044932	40
10991	4.041037	39	11041	4.043008	39	11091	4.044971	39
10992	4.041077	40	11042	4.043048	40	11092	4.045010	39
10993	4.041116	39	11043	4.043087	39	11093	4.045049	39
10994	4.041156	40	11044	4.043126	39	11094	4.045088	39
10995	4.041195	39	11045	4.043166	40	11095	4.045127	39
10996	4.041235	40	11046	4.043205	39	11096	4.045166	39
10997	4.041274	39	11047	4.043244	39	11097	4.045206	40
10998	4.041314	40	11048	4.043284	40	11098	4.045245	39
10999	4.041353	39	11049	4.043323	39	11099	4.045284	39
11000	4.041393	40	11050	4.043362	39	11100	4.045323	39

Nomb.	4. 5' 0"	D.	Nomb.	4. 5' 50"	D.	Nomb.	4. 6' 40"	D.
	Logarith.			Logarith.			Logarith.	
14700	4.167317	30	14750	4.168792	29	14800	4.170262	29
14701	4.167347	29	14751	4.168821	30	14801	4.170291	29
14702	4.167376	29	14752	4.168851	30	14802	4.170320	29
14703	4.167406	30	14753	4.168880	29	14803	4.170350	30
14704	4.167435	29	14754	4.168910	30	14804	4.170379	29
		30			29			29
14705	4.167465	30	14755	4.168939	29	14805	4.170408	29
14706	4.167495	30	14756	4.168969	30	14806	4.170438	30
14707	4.167524	29	14757	4.168998	29	14807	4.170467	29
14708	4.167554	30	14758	4.169028	30	14808	4.170496	29
14709	4.167583	29	14759	4.169057	29	14809	4.170526	30
		30			29			29
14710	4.167613	29	14760	4.169086	30	14810	4.170555	29
14711	4.167642	29	14761	4.169116	30	14811	4.170584	29
14712	4.167672	30	14762	4.169145	29	14812	4.170614	30
14713	4.167701	29	14763	4.169175	30	14813	4.170643	29
14714	4.167731	30	14764	4.169204	29	14814	4.170672	29
		29			29			30
14715	4.167760	30	14765	4.169233	30	14815	4.170702	29
14716	4.167790	30	14766	4.169263	30	14816	4.170731	29
14717	4.167819	29	14767	4.169292	29	14817	4.170760	29
14718	4.167849	29	14768	4.169322	30	14818	4.170790	30
14719	4.167878	30	14769	4.169351	29	14819	4.170819	29
		30			29			29
14720	4.167908	29	14770	4.169380	30	14820	4.170848	30
14721	4.167937	30	14771	4.169410	30	14821	4.170878	30
14722	4.167967	30	14772	4.169439	29	14822	4.170907	29
14723	4.167996	29	14773	4.169469	30	14823	4.170936	29
14724	4.168026	30	14774	4.169498	29	14824	4.170965	29
		29			29			30
14725	4.168055	30	14775	4.169527	29	14825	4.170995	29
14726	4.168085	29	14776	4.169557	30	14826	4.171024	29
14727	4.168114	29	14777	4.169586	30	14827	4.171053	29
14728	4.168144	30	14778	4.169616	30	14828	4.171083	30
14729	4.168173	29	14779	4.169645	29	14829	4.171112	29
		30			29			29
14730	4.168203	29	14780	4.169674	30	14830	4.171141	29
14731	4.168232	29	14781	4.169704	30	14831	4.171170	29
14732	4.168262	30	14782	4.169733	29	14832	4.171200	30
14733	4.168291	29	14783	4.169763	30	14833	4.171229	29
14734	4.168321	30	14784	4.169792	29	14834	4.171258	29
		29			29			30
14735	4.168350	29	14785	4.169821	29	14835	4.171288	29
14736	4.168380	30	14786	4.169850	29	14836	4.171317	29
14737	4.168409	29	14787	4.169880	30	14837	4.171346	29
14738	4.168439	30	14788	4.169909	29	14838	4.171375	29
14739	4.168468	29	14789	4.169939	30	14839	4.171405	30
		29			29			29
14740	4.168497	30	14790	4.169968	30	14840	4.171434	29
14741	4.168527	30	14791	4.169998	30	14841	4.171463	29
14742	4.168556	29	14792	4.170027	29	14842	4.171492	29
14743	4.168586	30	14793	4.170056	29	14843	4.171522	30
14744	4.168615	29	14794	4.170086	29	14844	4.171551	29
		30			29			29
14745	4.168645	29	14795	4.170115	29	14845	4.171580	29
14746	4.168674	29	14796	4.170144	29	14846	4.171609	29
14747	4.168704	30	14797	4.170174	30	14847	4.171639	30
14748	4.168733	29	14798	4.170203	29	14848	4.171668	29
14749	4.168763	30	14799	4.170232	29	14849	4.171697	29
14750	4.168792	29	14800	4.170262	30	14850	4.171726	29

Nomb.	4.7° 30' Logarith.	D.	Nomb.	4.8° 20' Logarith.	D.	Nomb.	4.9° 10' Logarith.	D.
14850	4.171726	30	14900	4.173186	29	14950	4.174641	29
14851	4.171756	29	14901	4.173215	30	14951	4.174670	29
14852	4.171785	29	14902	4.173245	29	14952	4.174699	29
14853	4.171814	29	14903	4.173274	29	14953	4.174728	29
14854	4.171843	29	14904	4.173303	29	14954	4.174757	29
14855	4.171873	30	14905	4.173332	29	14955	4.174786	29
14856	4.171902	29	14906	4.173361	29	14956	4.174815	29
14857	4.171931	29	14907	4.173390	29	14957	4.174844	29
14858	4.171960	29	14908	4.173419	29	14958	4.174874	30
14859	4.171990	30	14909	4.173449	30	14959	4.174903	29
14860	4.172019	29	14910	4.173478	29	14960	4.174932	29
14861	4.172048	29	14911	4.173507	29	14961	4.174961	29
14862	4.172077	29	14912	4.173536	29	14962	4.174990	29
14863	4.172106	29	14913	4.173565	29	14963	4.175019	29
14864	4.172136	30	14914	4.173594	29	14964	4.175048	29
14865	4.172165	29	14915	4.173623	29	14965	4.175077	29
14866	4.172194	29	14916	4.173652	29	14966	4.175106	29
14867	4.172223	29	14917	4.173681	29	14967	4.175135	29
14868	4.172253	30	14918	4.173711	30	14968	4.175164	29
14869	4.172282	29	14919	4.173740	29	14969	4.175193	29
14870	4.172311	29	14920	4.173769	29	14970	4.175222	29
14871	4.172340	29	14921	4.173798	29	14971	4.175251	29
14872	4.172369	29	14922	4.173827	29	14972	4.175280	29
14873	4.172399	30	14923	4.173856	29	14973	4.175309	29
14874	4.172428	29	14924	4.173885	29	14974	4.175338	29
14875	4.172457	29	14925	4.173914	29	14975	4.175367	29
14876	4.172486	29	14926	4.173943	30	14976	4.175396	29
14877	4.172515	29	14927	4.173973	30	14977	4.175425	29
14878	4.172545	30	14928	4.174002	29	14978	4.175454	29
14879	4.172574	29	14929	4.174031	29	14979	4.175483	29
14880	4.172603	29	14930	4.174060	29	14980	4.175512	29
14881	4.172632	29	14931	4.174089	29	14981	4.175541	29
14882	4.172661	29	14932	4.174118	29	14982	4.175570	29
14883	4.172690	30	14933	4.174147	29	14983	4.175599	29
14884	4.172720	29	14934	4.174176	29	14984	4.175628	29
14885	4.172749	29	14935	4.174205	29	14985	4.175657	29
14886	4.172778	29	14936	4.174234	29	14986	4.175686	29
14887	4.172807	29	14937	4.174263	29	14987	4.175715	29
14888	4.172836	29	14938	4.174292	29	14988	4.175744	29
14889	4.172866	30	14939	4.174322	30	14989	4.175773	29
14890	4.172895	29	14940	4.174351	29	14990	4.175802	29
14891	4.172924	29	14941	4.174380	29	14991	4.175831	29
14892	4.172953	29	14942	4.174409	29	14992	4.175860	29
14893	4.172982	29	14943	4.174438	29	14993	4.175889	29
14894	4.173011	29	14944	4.174467	29	14994	4.175918	29
14895	4.173041	30	14945	4.174496	29	14995	4.175946	28
14896	4.173070	29	14946	4.174525	29	14996	4.175975	29
14897	4.173099	29	14947	4.174554	29	14997	4.176004	29
14898	4.173128	29	14948	4.174583	29	14998	4.176033	29
14899	4.173157	29	14949	4.174612	29	14999	4.176062	29
14900	4.173186	29	14950	4.174641	29	15000	4.176091	29

Nomb.	4. 10' 0"	D.	Nomb.	4. 10' 50"	D.	Nomb.	4. 11' 40"	D.
	Logarith.			Logarith.			Logarith.	
15000	4.176091		15050	4.177537	28	15100	4.178977	29
15001	4.176120	29	15051	4.177565	29	15101	4.179006	28
15002	4.176149	29	15052	4.177594	29	15102	4.179034	29
15003	4.176178	29	15053	4.177623	29	15103	4.179063	29
15004	4.176207	29	15054	4.177652	29	15104	4.179092	29
15005	4.176236	29	15055	4.177681	29	15105	4.179121	29
15006	4.176265	29	15056	4.177710	29	15106	4.179149	28
15007	4.176294	29	15057	4.177738	28	15107	4.179178	29
15008	4.176323	29	15058	4.177767	29	15108	4.179207	29
15009	4.176352	29	15059	4.177796	29	15109	4.179236	29
15010	4.176381	29	15060	4.177825	29	15110	4.179264	28
15011	4.176410	29	15061	4.177854	29	15111	4.179293	29
15012	4.176439	29	15062	4.177883	29	15112	4.179322	29
15013	4.176468	29	15063	4.177911	28	15113	4.179351	29
15014	4.176496	28	15064	4.177940	29	15114	4.179379	28
15015	4.176525	29	15065	4.177969	29	15115	4.179408	29
15016	4.176554	29	15066	4.177998	29	15116	4.179437	29
15017	4.176583	29	15067	4.178027	29	15117	4.179466	29
15018	4.176612	29	15068	4.178056	29	15118	4.179494	28
15019	4.176641	29	15069	4.178084	28	15119	4.179523	29
15020	4.176670	29	15070	4.178113	29	15120	4.179552	29
15021	4.176699	29	15071	4.178142	29	15121	4.179581	28
15022	4.176728	29	15072	4.178171	29	15122	4.179609	29
15023	4.176757	29	15073	4.178200	29	15123	4.179638	29
15024	4.176786	29	15074	4.178229	29	15124	4.179667	29
15025	4.176815	29	15075	4.178257	28	15125	4.179695	28
15026	4.176843	28	15076	4.178286	29	15126	4.179724	29
15027	4.176872	29	15077	4.178315	29	15127	4.179753	29
15028	4.176901	29	15078	4.178344	29	15128	4.179782	28
15029	4.176930	29	15079	4.178373	29	15129	4.179810	28
15030	4.176959	29	15080	4.178401	28	15130	4.179839	29
15031	4.176988	29	15081	4.178430	29	15131	4.179868	29
15032	4.177017	29	15082	4.178459	29	15132	4.179896	28
15033	4.177046	29	15083	4.178488	29	15133	4.179925	29
15034	4.177075	29	15084	4.178517	29	15134	4.179954	29
15035	4.177103	28	15085	4.178545	28	15135	4.179982	28
15036	4.177132	29	15086	4.178574	29	15136	4.180011	29
15037	4.177161	29	15087	4.178603	29	15137	4.180040	29
15038	4.177190	29	15088	4.178632	29	15138	4.180069	29
15039	4.177219	29	15089	4.178660	28	15139	4.180097	28
15040	4.177248	29	15090	4.178689	29	15140	4.180126	29
15041	4.177277	29	15091	4.178717	29	15141	4.180155	29
15042	4.177306	29	15092	4.178746	29	15142	4.180183	28
15043	4.177334	28	15093	4.178776	29	15143	4.180212	29
15044	4.177363	29	15094	4.178804	28	15144	4.180241	29
15045	4.177392	29	15095	4.178833	29	15145	4.180269	28
15046	4.177421	29	15096	4.178862	29	15146	4.180298	29
15047	4.177450	29	15097	4.178891	29	15147	4.180327	29
15048	4.177479	29	15098	4.178919	28	15148	4.180355	28
15049	4.177508	29	15099	4.178948	29	15149	4.180384	29
15050	4.177537	29	15100	4.178977	29	15150	4.180413	29

Nomb.	4. 12' 30"	D.	Nomb.	4. 13' 20"	D.	Nomb.	4. 14' 10"	D.
	Logarith.			Logarith.			Logarith.	
15150	4.180413	28	15200	4.181844	28	15250	4.183270	28
15151	4.180441	29	15201	4.181872	29	15251	4.183298	29
15152	4.180470	29	15202	4.181901	29	15252	4.183327	29
15153	4.180499	29	15203	4.181929	28	15253	4.183355	28
15154	4.180527	28	15204	4.181958	29	15254	4.183384	29
15155	4.180556	29	15205	4.181986	28	15255	4.183412	28
15156	4.180585	29	15206	4.182015	29	15256	4.183441	29
15157	4.180613	28	15207	4.182044	29	15257	4.183469	28
15158	4.180642	29	15208	4.182072	28	15258	4.183498	29
15159	4.180671	29	15209	4.182101	29	15259	4.183526	28
15160	4.180699	28	15210	4.182129	28	15260	4.183555	29
15161	4.180728	29	15211	4.182158	29	15261	4.183583	28
15162	4.180757	29	15212	4.182186	28	15262	4.183611	28
15163	4.180785	28	15213	4.182215	29	15263	4.183640	29
15164	4.180814	29	15214	4.182243	28	15264	4.183668	28
15165	4.180842	28	15215	4.182272	29	15265	4.183697	29
15166	4.180871	29	15216	4.182301	29	15266	4.183725	28
15167	4.180900	29	15217	4.182329	28	15267	4.183754	29
15168	4.180928	28	15218	4.182358	29	15268	4.183782	28
15169	4.180957	29	15219	4.182386	28	15269	4.183811	29
15170	4.180986	28	15220	4.182415	29	15270	4.183839	28
15171	4.181014	29	15221	4.182443	28	15271	4.183868	29
15172	4.181043	28	15222	4.182472	29	15272	4.183896	28
15173	4.181071	28	15223	4.182500	28	15273	4.183924	28
15174	4.181100	29	15224	4.182529	29	15274	4.183953	29
15175	4.181129	29	15225	4.182557	28	15275	4.183981	28
15176	4.181157	28	15226	4.182586	29	15276	4.184010	29
15177	4.181186	29	15227	4.182614	28	15277	4.184038	28
15178	4.181215	29	15228	4.182643	29	15278	4.184067	29
15179	4.181243	28	15229	4.182671	28	15279	4.184095	28
15180	4.181272	29	15230	4.182700	29	15280	4.184123	28
15181	4.181300	28	15231	4.182728	28	15281	4.184152	29
15182	4.181329	29	15232	4.182757	29	15282	4.184180	28
15183	4.181358	28	15233	4.182785	28	15283	4.184209	29
15184	4.181386	29	15234	4.182814	29	15284	4.184237	28
15185	4.181415	28	15235	4.182842	28	15285	4.184265	29
15186	4.181443	29	15236	4.182871	29	15286	4.184294	28
15187	4.181472	29	15237	4.182900	29	15287	4.184322	28
15188	4.181501	29	15238	4.182928	28	15288	4.184351	29
15189	4.181529	28	15239	4.182957	29	15289	4.184379	29
15190	4.181558	28	15240	4.182985	28	15290	4.184408	28
15191	4.181586	29	15241	4.183014	29	15291	4.184436	28
15192	4.181615	29	15242	4.183042	28	15292	4.184464	29
15193	4.181644	29	15243	4.183070	28	15293	4.184493	29
15194	4.181672	28	15244	4.183099	29	15294	4.184521	28
15195	4.181701	29	15245	4.183127	28	15295	4.184550	29
15196	4.181729	28	15246	4.183156	29	15296	4.184578	28
15197	4.181758	28	15247	4.183184	29	15297	4.184606	29
15198	4.181786	28	15248	4.183213	29	15298	4.184635	29
15199	4.181815	29	15249	4.183241	28	15299	4.184663	28
15200	4.181844	29	15250	4.183270	29	15300	4.184691	28

Nomb.	4. 15' 0"	D.	Nomb.	4. 15' 30"	D.	Nomb.	4. 16' 40"	D.
	Logarithm			Logarithm			Logarithm	
15300	4.184691	29	15350	4.186108	29	15400	4.187521	28
15301	4.184720	28	15351	4.186137	28	15401	4.187549	28
15302	4.184748	29	15352	4.186165	28	15402	4.187577	28
15303	4.184777	29	15353	4.186193	28	15403	4.187605	28
15304	4.184805	28	15354	4.186222	29	15404	4.187634	29
15305	4.184833	28	15355	4.186250	28	15405	4.187662	28
15306	4.184862	29	15356	4.186278	28	15406	4.187690	28
15307	4.184890	28	15357	4.186306	28	15407	4.187718	28
15308	4.184919	29	15358	4.186335	29	15408	4.187746	28
15309	4.184947	28	15359	4.186363	28	15409	4.187774	28
15310	4.184975	28	15360	4.186391	28	15410	4.187803	29
15311	4.185004	29	15361	4.186420	29	15411	4.187831	28
15312	4.185032	28	15362	4.186448	28	15412	4.187859	28
15313	4.185060	28	15363	4.186476	28	15413	4.187887	28
15314	4.185089	29	15364	4.186504	28	15414	4.187915	28
15315	4.185117	28	15365	4.186533	29	15415	4.187944	29
15316	4.185145	28	15366	4.186561	28	15416	4.187972	28
15317	4.185174	29	15367	4.186589	28	15417	4.188000	28
15318	4.185202	28	15368	4.186617	29	15418	4.188028	28
15319	4.185230	28	15369	4.186646	28	15419	4.188056	28
15320	4.185259	29	15370	4.186674	28	15420	4.188084	29
15321	4.185287	28	15371	4.186702	28	15421	4.188113	28
15322	4.185316	29	15372	4.186730	28	15422	4.188141	28
15323	4.185344	28	15373	4.186759	29	15423	4.188169	28
15324	4.185372	28	15374	4.186787	28	15424	4.188197	28
15325	4.185401	29	15375	4.186815	28	15425	4.188225	28
15326	4.185429	28	15376	4.186843	29	15426	4.188253	29
15327	4.185457	28	15377	4.186872	28	15427	4.188282	28
15328	4.185486	29	15378	4.186900	28	15428	4.188310	28
15329	4.185514	28	15379	4.186928	28	15429	4.188338	28
15330	4.185542	28	15380	4.186956	29	15430	4.188366	28
15331	4.185571	29	15381	4.186985	29	15431	4.188394	28
15332	4.185599	28	15382	4.187013	28	15432	4.188422	28
15333	4.185627	28	15383	4.187041	28	15433	4.188450	29
15334	4.185656	29	15384	4.187069	29	15434	4.188479	28
15335	4.185684	28	15385	4.187098	28	15435	4.188507	28
15336	4.185712	28	15386	4.187126	28	15436	4.188535	28
15337	4.185740	28	15387	4.187154	28	15437	4.188563	28
15338	4.185769	29	15388	4.187182	28	15438	4.188591	28
15339	4.185797	28	15389	4.187210	29	15439	4.188619	28
15340	4.185825	28	15390	4.187239	29	15440	4.188647	28
15341	4.185854	29	15391	4.187267	28	15441	4.188675	28
15342	4.185882	28	15392	4.187295	28	15442	4.188704	29
15343	4.185910	28	15393	4.187323	28	15443	4.188732	28
15344	4.185939	29	15394	4.187352	29	15444	4.188760	28
15345	4.185967	28	15395	4.187380	28	15445	4.188788	28
15346	4.185995	28	15396	4.187408	28	15446	4.188816	28
15347	4.186024	29	15397	4.187436	28	15447	4.188844	28
15348	4.186052	28	15398	4.187464	28	15448	4.188872	28
15349	4.186080	28	15399	4.187493	29	15449	4.188900	28
15350	4.186108	28	15400	4.187521	28	15450	4.188929	29

4. 17 30"			4. 18 20"			4. 19 10"		
Nomb.	Logarith.	D.	Nomb.	Logarith.	D.	Nomb.	Logarith.	D.
15450	4.188929		15500	4.190332		15550	4.191730	
15451	4.188957	28	15501	4.190360	28	15551	4.191758	28
15452	4.188985	28	15502	4.190388	28	15552	4.191786	28
15453	4.189013	28	15503	4.190416	28	15553	4.191814	28
15454	4.189041	28	15504	4.190444	28	15554	4.191842	28
15455	4.189069	28	15505	4.190472	28	15555	4.191870	28
15456	4.189097	28	15506	4.190500	28	15556	4.191898	28
15457	4.189125	28	15507	4.190528	28	15557	4.191926	28
15458	4.189153	28	15508	4.190556	28	15558	4.191954	28
15459	4.189181	28	15509	4.190584	28	15559	4.191982	28
15460	4.189210	29	15510	4.190612	28	15560	4.192010	28
15461	4.189238	28	15511	4.190640	28	15561	4.192038	28
15462	4.189266	28	15512	4.190668	28	15562	4.192065	27
15463	4.189294	28	15513	4.190696	28	15563	4.192093	28
15464	4.189322	28	15514	4.190724	28	15564	4.192121	28
15465	4.189350	28	15515	4.190752	28	15565	4.192149	28
15466	4.189378	28	15516	4.190780	28	15566	4.192177	28
15467	4.189406	28	15517	4.190808	28	15567	4.192205	28
15468	4.189434	28	15518	4.190836	28	15568	4.192233	28
15469	4.189462	28	15519	4.190864	28	15569	4.192261	28
15470	4.189490	28	15520	4.190892	28	15570	4.192289	28
15471	4.189518	28	15521	4.190920	28	15571	4.192317	28
15472	4.189546	29	15522	4.190948	28	15572	4.192344	27
15473	4.189575	28	15523	4.190976	28	15573	4.192372	28
15474	4.189603	28	15524	4.191004	28	15574	4.192400	28
15475	4.189631	28	15525	4.191032	28	15575	4.192428	28
15476	4.189659	28	15526	4.191060	28	15576	4.192456	28
15477	4.189687	28	15527	4.191088	28	15577	4.192484	28
15478	4.189715	28	15528	4.191116	28	15578	4.192512	28
15479	4.189743	28	15529	4.191144	28	15579	4.192540	28
15480	4.189771	28	15530	4.191171	27	15580	4.192567	27
15481	4.189799	28	15531	4.191199	28	15581	4.192595	28
15482	4.189827	28	15532	4.191227	28	15582	4.192623	28
15483	4.189855	28	15533	4.191255	28	15583	4.192651	28
15484	4.189883	28	15534	4.191283	28	15584	4.192679	28
15485	4.189911	28	15535	4.191311	28	15585	4.192707	28
15486	4.189939	28	15536	4.191339	28	15586	4.192735	28
15487	4.189967	28	15537	4.191367	28	15587	4.192763	28
15488	4.189995	28	15538	4.191395	28	15588	4.192790	27
15489	4.190023	28	15539	4.191423	28	15589	4.192818	28
15490	4.190051	28	15540	4.191451	28	15590	4.192846	28
15491	4.190080	29	15541	4.191479	28	15591	4.192874	28
15492	4.190108	28	15542	4.191507	28	15592	4.192902	28
15493	4.190136	28	15543	4.191535	28	15593	4.192930	28
15494	4.190164	28	15544	4.191563	28	15594	4.192958	28
15495	4.190192	28	15545	4.191591	28	15595	4.192985	27
15496	4.190220	28	15546	4.191619	28	15596	4.193013	28
15497	4.190248	28	15547	4.191647	28	15597	4.193041	28
15498	4.190276	28	15548	4.191675	28	15598	4.193069	28
15499	4.190304	28	15549	4.191703	28	15599	4.193097	28
15500	4.190332	28	15550	4.191730	27	15600	4.193125	28

Nomb.	3. 20' 0"	D.	Nomb.	3. 20' 50"	D.	Nomb.	3. 21' 40"	D.
	Logarith.			Logarith.			Logarith.	
12000	4.079181	36	12050	4.080987	36	12100	4.082785	36
12001	4.079217	37	12051	4.081023	36	12101	4.082821	36
12002	4.079254	36	12052	4.081059	36	12102	4.082857	36
12003	4.079290	36	12053	4.081095	36	12103	4.082893	36
12004	4.079326	36	12054	4.081131	36	12104	4.082929	36
12005	4.079362	36	12055	4.081167	36	12105	4.082965	36
12006	4.079398	37	12056	4.081203	36	12106	4.083001	36
12007	4.079435	36	12057	4.081239	36	12107	4.083037	35
12008	4.079471	36	12058	4.081275	36	12108	4.083072	36
12009	4.079507	36	12059	4.081311	36	12109	4.083108	36
12010	4.079543	36	12060	4.081347	36	12110	4.083144	36
12011	4.079579	36	12061	4.081383	36	12111	4.083180	36
12012	4.079615	36	12062	4.081419	36	12112	4.083216	36
12013	4.079651	37	12063	4.081455	36	12113	4.083252	36
12014	4.079688	36	12064	4.081491	36	12114	4.083288	35
12015	4.079724	36	12065	4.081527	36	12115	4.083323	36
12016	4.079760	36	12066	4.081563	36	12116	4.083359	36
12017	4.079796	36	12067	4.081599	36	12117	4.083395	36
12018	4.079832	36	12068	4.081635	36	12118	4.083431	36
12019	4.079868	36	12069	4.081671	36	12119	4.083467	36
12020	4.079904	37	12070	4.081707	36	12120	4.083503	35
12021	4.079941	36	12071	4.081743	36	12121	4.083538	36
12022	4.079977	36	12072	4.081779	36	12122	4.083574	36
12023	4.080013	36	12073	4.081815	36	12123	4.083610	36
12024	4.080049	36	12074	4.081851	36	12124	4.083646	36
12025	4.080085	36	12075	4.081887	36	12125	4.083682	36
12026	4.080121	36	12076	4.081923	36	12126	4.083718	35
12027	4.080157	36	12077	4.081959	36	12127	4.083753	36
12028	4.080193	37	12078	4.081995	36	12128	4.083789	36
12029	4.080230	36	12079	4.082031	36	12129	4.083825	36
12030	4.080266	36	12080	4.082067	36	12130	4.083861	36
12031	4.080302	36	12081	4.082103	36	12131	4.083897	35
12032	4.080338	36	12082	4.082139	36	12132	4.083932	36
12033	4.080374	36	12083	4.082175	36	12133	4.083968	36
12034	4.080410	36	12084	4.082211	36	12134	4.084004	36
12035	4.080446	36	12085	4.082247	36	12135	4.084040	36
12036	4.080482	36	12086	4.082283	36	12136	4.084076	35
12037	4.080518	36	12087	4.082319	35	12137	4.084111	36
12038	4.080554	36	12088	4.082354	36	12138	4.084147	36
12039	4.080590	36	12089	4.082390	36	12139	4.084183	36
12040	4.080626	37	12090	4.082426	36	12140	4.084219	35
12041	4.080663	36	12091	4.082462	36	12141	4.084254	36
12042	4.080699	36	12092	4.082498	36	12142	4.084290	36
12043	4.080735	36	12093	4.082534	36	12143	4.084326	36
12044	4.080771	36	12094	4.082570	36	12144	4.084362	36
12045	4.080807	36	12095	4.082606	36	12145	4.084398	35
12046	4.080843	36	12096	4.082642	36	12146	4.084433	36
12047	4.080879	36	12097	4.082678	36	12147	4.084469	36
12048	4.080915	36	12098	4.082714	35	12148	4.084505	36
12049	4.080951	36	12099	4.082749	36	12149	4.084541	35
12050	4.080987		12100	4.082785		12150	4.084576	

Nomb.	3. 22' 30"	D.	Nomb.	3. 23' 20"	D.	Nomb.	3. 24' 10"	D.
	Logarith.			Logarith.			Logarith.	
12150	4.084576	36	12200	4.086360		12250	4.088136	
12151	4.084612	36	12201	4.086395	35	12251	4.088172	36
12152	4.084648	35	12202	4.086431	36	12252	4.088207	35
12153	4.084683	36	12203	4.086467	36	12253	4.088242	35
12154	4.084719	36	12204	4.086502	35	12254	4.088278	36
12155	4.084755	36	12205	4.086538	36	12255	4.088313	35
12156	4.084791	35	12206	4.086573	35	12256	4.088349	36
12157	4.084826	36	12207	4.086609	36	12257	4.088384	35
12158	4.084862	36	12208	4.086645	36	12258	4.088420	36
12159	4.084898	36	12209	4.086680	35	12259	4.088455	35
12160	4.084934	35	12210	4.086716	36	12260	4.088490	35
12161	4.084969	36	12211	4.086751	35	12261	4.088526	36
12162	4.085005	36	12212	4.086787	36	12262	4.088561	35
12163	4.085041	35	12213	4.086822	35	12263	4.088597	36
12164	4.085076	35	12214	4.086858	36	12264	4.088632	35
12165	4.085112	36	12215	4.086893	35	12265	4.088668	36
12166	4.085148	36	12216	4.086929	36	12266	4.088703	35
12167	4.085184	36	12217	4.086965	36	12267	4.088738	35
12168	4.085219	35	12218	4.087000	35	12268	4.088774	36
12169	4.085255	36	12219	4.087036	36	12269	4.088809	35
12170	4.085291	36	12220	4.087071	35	12270	4.088845	36
12171	4.085326	35	12221	4.087107	36	12271	4.088880	35
12172	4.085362	36	12222	4.087142	35	12272	4.088915	35
12173	4.085398	36	12223	4.087178	36	12273	4.088951	36
12174	4.085433	35	12224	4.087213	35	12274	4.088986	35
12175	4.085469	36	12225	4.087249	36	12275	4.089022	36
12176	4.085505	35	12226	4.087284	35	12276	4.089057	35
12177	4.085540	36	12227	4.087320	36	12277	4.089092	35
12178	4.085576	36	12228	4.087355	35	12278	4.089128	36
12179	4.085612	36	12229	4.087391	36	12279	4.089163	35
12180	4.085647	35	12230	4.087426	35	12280	4.089198	35
12181	4.085683	36	12231	4.087462	36	12281	4.089234	36
12182	4.085719	36	12232	4.087497	35	12282	4.089269	35
12183	4.085754	35	12233	4.087533	36	12283	4.089304	35
12184	4.085790	36	12234	4.087568	36	12284	4.089340	36
12185	4.085826	36	12235	4.087604	35	12285	4.089375	35
12186	4.085861	35	12236	4.087639	35	12286	4.089411	36
12187	4.085897	36	12237	4.087675	36	12287	4.089446	35
12188	4.085932	35	12238	4.087710	35	12288	4.089481	35
12189	4.085968	36	12239	4.087746	36	12289	4.089517	36
12190	4.086004	36	12240	4.087781	35	12290	4.089552	35
12191	4.086039	35	12241	4.087817	36	12291	4.089587	36
12192	4.086075	36	12242	4.087852	35	12292	4.089623	35
12193	4.086111	36	12243	4.087888	36	12293	4.089658	35
12194	4.086146	35	12244	4.087923	35	12294	4.089693	36
12195	4.086182	36	12245	4.087959	36	12295	4.089729	35
12196	4.086217	35	12246	4.087994	35	12296	4.089764	36
12197	4.086253	36	12247	4.088030	36	12297	4.089799	35
12198	4.086289	36	12248	4.088065	35	12298	4.089834	35
12199	4.086324	35	12249	4.088101	36	12299	4.089870	36
12200	4.086360	36	12250	4.088136	35	12300	4.089905	35

Nomb.	4. 25' 0"	D.	Nomb.	4. 25' 50"	D.	Nomb.	4. 26' 40"	D.
	Logarith.			Logarith.			Logarith.	
15900	4.201397	27	15950	4.202761	27	16000	4.204120	27
15901	4.201424	28	15951	4.202788	27	16001	4.204147	27
15902	4.201452	28	15952	4.202815	27	16002	4.204174	27
15903	4.201479	27	15953	4.202842	27	16003	4.204201	27
15904	4.201506	27	15954	4.202870	28	16004	4.204228	27
15905	4.201534	28	15955	4.202897	27	16005	4.204256	28
15906	4.201561	27	15956	4.202924	27	16006	4.204283	27
15907	4.201588	27	15957	4.202951	27	16007	4.204310	27
15908	4.201616	28	15958	4.202978	27	16008	4.204337	27
15909	4.201643	27	15959	4.203006	28	16009	4.204364	27
15910	4.201670	27	15960	4.203033	27	16010	4.204391	27
15911	4.201697	27	15961	4.203060	27	16011	4.204418	27
15912	4.201725	28	15962	4.203087	27	16012	4.204446	28
15913	4.201752	27	15963	4.203114	27	16013	4.204473	27
15914	4.201779	27	15964	4.203142	28	16014	4.204500	27
15915	4.201807	28	15965	4.203169	27	16015	4.204527	27
15916	4.201834	27	15966	4.203196	27	16016	4.204554	27
15917	4.201861	27	15967	4.203223	27	16017	4.204581	27
15918	4.201888	27	15968	4.203250	27	16018	4.204608	27
15919	4.201916	28	15969	4.203278	28	16019	4.204635	27
15920	4.201943	27	15970	4.203305	27	16020	4.204662	27
15921	4.201970	27	15971	4.203332	27	16021	4.204690	28
15922	4.201998	28	15972	4.203359	27	16022	4.204717	27
15923	4.202025	27	15973	4.203386	27	16023	4.204744	27
15924	4.202052	27	15974	4.203414	28	16024	4.204771	27
15925	4.202079	27	15975	4.203441	27	16025	4.204798	27
15926	4.202107	28	15976	4.203468	27	16026	4.204825	27
15927	4.202134	27	15977	4.203495	27	16027	4.204852	27
15928	4.202161	27	15978	4.203522	27	16028	4.204879	27
15929	4.202188	27	15979	4.203550	28	16029	4.204906	27
15930	4.202216	28	15980	4.203577	27	16030	4.204933	27
15931	4.202243	27	15981	4.203604	27	16031	4.204961	28
15932	4.202270	27	15982	4.203631	27	16032	4.204988	27
15933	4.202298	28	15983	4.203658	27	16033	4.205015	27
15934	4.202325	27	15984	4.203685	27	16034	4.205042	27
15935	4.202352	27	15985	4.203713	28	16035	4.205069	27
15936	4.202379	27	15986	4.203740	27	16036	4.205096	27
15937	4.202407	28	15987	4.203767	27	16037	4.205123	27
15938	4.202434	27	15988	4.203794	27	16038	4.205150	27
15939	4.202461	27	15989	4.203821	27	16039	4.205177	27
15940	4.202488	27	15990	4.203848	27	16040	4.205204	27
15941	4.202516	28	15991	4.203876	28	16041	4.205231	27
15942	4.202543	27	15992	4.203903	27	16042	4.205258	27
15943	4.202570	27	15993	4.203930	27	16043	4.205286	28
15944	4.202597	27	15994	4.203957	27	16044	4.205313	27
15945	4.202624	27	15995	4.203984	27	16045	4.205340	27
15946	4.202652	28	15996	4.204011	27	16046	4.205367	27
15947	4.202679	27	15997	4.204038	27	16047	4.205394	27
15948	4.202706	27	15998	4.204066	28	16048	4.205421	27
15949	4.202733	27	15999	4.204093	27	16049	4.205448	27
15950	4.202761	28	16000	4.204120	27	16050	4.205475	27

4. 27' 30"			4. 28' 20"			4. 29' 10"		
Nomb.	Logarithh.	D.	Nomb.	Logarithh.	D.	Nomb.	Logarithh.	D.
16050	4.205475		16100	4.206826		16150	4.208173	
16051	4.205502	27	16101	4.206853	27	16151	4.208199	26
16052	4.205529	27	16102	4.206880	27	16152	4.208226	27
16053	4.205556	27	16103	4.206907	27	16153	4.208253	27
16054	4.205583	27	16104	4.206934	27	16154	4.208280	27
16055	4.205610	27	16105	4.206961	27	16155	4.208307	27
16056	4.205637	27	16106	4.206988	27	16156	4.208334	27
16057	4.205664	27	16107	4.207015	27	16157	4.208361	27
16058	4.205691	27	16108	4.207042	27	16158	4.208388	27
16059	4.205718	27	16109	4.207069	27	16159	4.208414	26
16060	4.205746	28	16110	4.207096	27	16160	4.208441	27
16061	4.205773	27	16111	4.207122	26	16161	4.208468	27
16062	4.205800	27	16112	4.207149	27	16162	4.208495	27
16063	4.205827	27	16113	4.207176	27	16163	4.208522	27
16064	4.205854	27	16114	4.207203	27	16164	4.208549	27
16065	4.205881	27	16115	4.207230	27	16165	4.208576	27
16066	4.205908	27	16116	4.207257	27	16166	4.208603	27
16067	4.205935	27	16117	4.207284	27	16167	4.208629	26
16068	4.205962	27	16118	4.207311	27	16168	4.208656	27
16069	4.205989	27	16119	4.207338	27	16169	4.208683	27
16070	4.206016	27	16120	4.207365	27	16170	4.208710	27
16071	4.206043	27	16121	4.207392	27	16171	4.208737	27
16072	4.206070	27	16122	4.207419	27	16172	4.208764	27
16073	4.206097	27	16123	4.207446	27	16173	4.208791	27
16074	4.206124	27	16124	4.207473	27	16174	4.208817	26
16075	4.206151	27	16125	4.207500	27	16175	4.208844	27
16076	4.206178	27	16126	4.207527	27	16176	4.208871	27
16077	4.206205	27	16127	4.207554	27	16177	4.208898	27
16078	4.206232	27	16128	4.207581	27	16178	4.208925	27
16079	4.206259	27	16129	4.207607	26	16179	4.208952	27
16080	4.206286	27	16130	4.207634	27	16180	4.208979	27
16081	4.206313	27	16131	4.207661	27	16181	4.209005	26
16082	4.206340	27	16132	4.207688	27	16182	4.209032	27
16083	4.206367	27	16133	4.207715	27	16183	4.209059	27
16084	4.206394	27	16134	4.207742	27	16184	4.209086	27
16085	4.206421	27	16135	4.207769	27	16185	4.209113	27
16086	4.206448	27	16136	4.207796	27	16186	4.209140	27
16087	4.206475	27	16137	4.207823	27	16187	4.209166	26
16088	4.206502	27	16138	4.207850	27	16188	4.209193	27
16089	4.206529	27	16139	4.207877	27	16189	4.209220	27
16090	4.206556	27	16140	4.207904	27	16190	4.209247	27
16091	4.206583	27	16141	4.207930	26	16191	4.209274	26
16092	4.206610	27	16142	4.207957	27	16192	4.209300	27
16093	4.206637	27	16143	4.207984	27	16193	4.209327	27
16094	4.206664	27	16144	4.208011	27	16194	4.209354	27
16095	4.206691	27	16145	4.208038	27	16195	4.209381	27
16096	4.206718	27	16146	4.208065	27	16196	4.209408	27
16097	4.206745	27	16147	4.208092	27	16197	4.209435	27
16098	4.206772	27	16148	4.208119	27	16198	4.209461	26
16099	4.206799	27	16149	4.208146	27	16199	4.209488	27
16100	4.206826	27	16150	4.208173	27	16200	4.209515	27

4 2 0 0		4 3 0 0		4 3 0 0	
	Logarith.		Logarith.		Logarith.
16200	4.209515	16254	4.210855	16300	4.212188
16201	4.209542	16255	4.210880	16301	4.212214
16202	4.209569	16256	4.210907	16302	4.212241
16203	4.209595	16257	4.210934	16303	4.212268
16204	4.209622	16258	4.210960	16304	4.212294
16205	4.209649	16259	4.210987	16305	4.212321
16206	4.209676	16260	4.211014	16306	4.212347
16207	4.209703	16261	4.211040	16307	4.212374
16208	4.209729	16262	4.211067	16308	4.212401
16209	4.209756	16263	4.211094	16309	4.212427
16210	4.209783	16264	4.211121	16310	4.212454
16211	4.209810	16265	4.211147	16311	4.212481
16212	4.209837	16266	4.211174	16312	4.212507
16213	4.209863	16267	4.211201	16313	4.212534
16214	4.209890	16268	4.211227	16314	4.212560
16215	4.209917	16269	4.211254	16315	4.212587
16216	4.209944	16270	4.211281	16316	4.212614
16217	4.209971	16271	4.211307	16317	4.212640
16218	4.209997	16272	4.211334	16318	4.212667
16219	4.210024	16273	4.211361	16319	4.212694
16220	4.210051	16274	4.211388	16320	4.212720
16221	4.210078	16275	4.211414	16321	4.212747
16222	4.210104	16276	4.211441	16322	4.212773
16223	4.210131	16277	4.211468	16323	4.212800
16224	4.210158	16278	4.211494	16324	4.212827
16225	4.210185	16279	4.211521	16325	4.212853
16226	4.210211	16280	4.211548	16326	4.212880
16227	4.210238	16281	4.211574	16327	4.212906
16228	4.210265	16282	4.211601	16328	4.212933
16229	4.210292	16283	4.211628	16329	4.212960
16230	4.210319	16284	4.211654	16330	4.212986
16231	4.210345	16285	4.211681	16331	4.213013
16232	4.210372	16286	4.211708	16332	4.213039
16233	4.210399	16287	4.211734	16333	4.213066
16234	4.210426	16288	4.211761	16334	4.213093
16235	4.210452	16289	4.211788	16335	4.213119
16236	4.210479	16290	4.211814	16336	4.213146
16237	4.210506	16291	4.211841	16337	4.213172
16238	4.210533	16292	4.211868	16338	4.213199
16239	4.210559	16293	4.211894	16339	4.213225
16240	4.210586	16294	4.211921	16340	4.213252
16241	4.210613	16295	4.211948	16341	4.213279
16242	4.210640	16296	4.211974	16342	4.213305
16243	4.210666	16297	4.212001	16343	4.213332
16244	4.210693	16298	4.212028	16344	4.213358
16245	4.210720	16299	4.212054	16345	4.213385
16246	4.210746	16300	4.212081	16346	4.213411
16247	4.210773			16347	4.213438
16248	4.210800			16348	4.213465
16249	4.210827			16349	4.213491
16250	4.210853			16350	4.213518

Nomb.	4. 52' 30"	D.	Nomb.	4. 33' 20"	D.	Nomb.
	Logarith.			Logarith.		
16350	4.213518	26	16400	4.214844	26	16450
16351	4.213544	27	16401	4.214870	27	16451
16352	4.213571	27	16402	4.214897	27	16452
16353	4.213597	26	16403	4.214923	26	16453
16354	4.213624	27	16404	4.214950	27	16454
16355	4.213650	26	16405	4.214976	26	16455
16356	4.213677	27	16406	4.215003	27	16456
16357	4.213704	27	16407	4.215029	26	16457
16358	4.213730	26	16408	4.215056	27	16458
16359	4.213757	27	16409	4.215082	26	16459
16360	4.213783	26	16410	4.215109	27	16460
16361	4.213810	27	16411	4.215135	26	16461
16362	4.213836	26	16412	4.215162	27	16462
16363	4.213863	27	16413	4.215188	26	16463
16364	4.213889	26	16414	4.215214	26	16464
16365	4.213916	27	16415	4.215241	27	16465
16366	4.213943	27	16416	4.215267	26	16466
16367	4.213969	26	16417	4.215294	27	16467
16368	4.213996	27	16418	4.215320	26	16468
16369	4.214022	26	16419	4.215347	27	16469
16370	4.214049	27	16420	4.215373	26	16470
16371	4.214075	26	16421	4.215400	27	16471
16372	4.214102	27	16422	4.215426	26	16472
16373	4.214128	26	16423	4.215452	26	16473
16374	4.214155	27	16424	4.215479	27	16474
16375	4.214181	26	16425	4.215505	26	16475
16376	4.214208	27	16426	4.215532	27	16476
16377	4.214234	26	16427	4.215558	26	16477
16378	4.214261	27	16428	4.215585	27	16478
16379	4.214287	26	16429	4.215611	26	16479
16380	4.214314	27	16430	4.215638	27	16480
16381	4.214340	26	16431	4.215664	26	16481
16382	4.214367	27	16432	4.215690	26	16482
16383	4.214393	26	16433	4.215717	27	16483
16384	4.214420	27	16434	4.215743	26	16484
16385	4.214446	26	16435	4.215770	27	16485
16386	4.214473	27	16436	4.215796	26	16486
16387	4.214499	26	16437	4.215823	27	16487
16388	4.214526	27	16438	4.215849	26	16488
16389	4.214552	26	16439	4.215875	26	16489
16390	4.214579	27	16440	4.215902	27	16490
16391	4.214605	26	16441	4.215928	26	16491
16392	4.214632	27	16442	4.215955	27	16492
16393	4.214658	26	16443	4.215981	26	16493
16394	4.214685	27	16444	4.216007	26	16494
16395	4.214711	26	16445	4.216034	27	16495
16396	4.214738	27	16446	4.216060	26	16496
16397	4.214764	26	16447	4.216087	27	16497
16398	4.214791	27	16448	4.216113	26	16498
16399	4.214817	26	16449	4.216140	27	16499
16400	4.214844	27	16450	4.216166	26	16500

Yomb.	4. 35' 0"	D.	Nomb.	4. 35' 50"	D.	Nomb.	4. 36' 40"	D.
	Logarith.			Logarith.			Logarith.	
16500	4.217484	26	16550	4.218798	26	16600	4.220108	26
16501	4.217510		16551	4.218824	26	16601	4.220134	26
16502	4.217537	27	16552	4.218850	26	16602	4.220160	26
16503	4.217563	26	16553	4.218877	27	16603	4.220187	27
16504	4.217589	26	16554	4.218903	26	16604	4.220213	26
		27			26			26
16505	4.217616	26	16555	4.218929	26	16605	4.220239	26
16506	4.217642	26	16556	4.218955	26	16606	4.220265	26
16507	4.217668	26	16557	4.218982	27	16607	4.220291	26
16508	4.217694	26	16558	4.219008	26	16608	4.220317	26
16509	4.217721	27	16559	4.219034	26	16609	4.220343	26
		26			26			27
16510	4.217747	26	16560	4.219060	27	16610	4.220370	26
16511	4.217773	27	16561	4.219087	26	16611	4.220396	26
16512	4.217800	26	16562	4.219113	26	16612	4.220422	26
16513	4.217826	26	16563	4.219139	26	16613	4.220448	26
16514	4.217852	26	16564	4.219165	26	16614	4.220474	26
		27			26			26
16515	4.217879	26	16565	4.219191	27	16615	4.220500	26
16516	4.217905	26	16566	4.219218	27	16616	4.220526	26
16517	4.217931	26	16567	4.219244	26	16617	4.220553	27
16518	4.217957	26	16568	4.219270	26	16618	4.220579	26
16519	4.217984	27	16569	4.219296	26	16619	4.220605	26
		26			27			26
16520	4.218010	26	16570	4.219323	26	16620	4.220631	26
16521	4.218036	26	16571	4.219349	26	16621	4.220657	26
16522	4.218063	27	16572	4.219375	26	16622	4.220683	26
16523	4.218089	26	16573	4.219401	26	16623	4.220709	26
16524	4.218115	26	16574	4.219427	26	16624	4.220736	27
		26			27			26
16525	4.218141	27	16575	4.219454	26	16625	4.220762	26
16526	4.218168	26	16576	4.219480	26	16626	4.220788	26
16527	4.218194	26	16577	4.219506	26	16627	4.220814	26
16528	4.218220	26	16578	4.219532	26	16628	4.220840	26
16529	4.218247	27	16579	4.219558	26	16629	4.220866	26
		26			27			26
16530	4.218273	26	16580	4.219585	26	16630	4.220892	26
16531	4.218299	26	16581	4.219611	26	16631	4.220918	26
16532	4.218325	26	16582	4.219637	26	16632	4.220944	26
16533	4.218352	27	16583	4.219663	26	16633	4.220971	27
16534	4.218378	26	16584	4.219689	26	16634	4.220997	26
		26			26			26
16535	4.218404	26	16585	4.219715	27	16635	4.221023	26
16536	4.218430	26	16586	4.219742	26	16636	4.221049	26
16537	4.218457	27	16587	4.219768	26	16637	4.221075	26
16538	4.218483	26	16588	4.219794	26	16638	4.221101	26
16539	4.218509	26	16589	4.219820	26	16639	4.221127	26
		27			26			26
16540	4.218536	26	16590	4.219846	27	16640	4.221153	26
16541	4.218562	26	16591	4.219873	26	16641	4.221179	27
16542	4.218588	26	16592	4.219899	26	16642	4.221206	26
16543	4.218614	27	16593	4.219925	26	16643	4.221232	26
16544	4.218641	27	16594	4.219951	26	16644	4.221258	26
		26			26			26
16545	4.218667	26	16595	4.219977	26	16645	4.221284	26
16546	4.218693	26	16596	4.220003	27	16646	4.221310	26
16547	4.218719	27	16597	4.220030	26	16647	4.221336	26
16548	4.218746	26	16598	4.220056	26	16648	4.221362	26
16549	4.218772	26	16599	4.220082	26	16649	4.221388	26
16550	4.218798	26	16600	4.220108	26	16650	4.221414	26

Nomb.	4 37. 30"	D.	Nomb.	4 38' 20"	D.	Nomb.
	Logarith.			Logarith.		
16650	4.221414		16700	4.222716		16750
16651	4.221440	26	16701	4.222742	26	16751
16652	4.221466	26	16702	4.222768	26	16752
16653	4.221492	26	16703	4.222794	26	16753
16654	4.221519	27	16704	4.222820	26	16754
16655	4.221545	26	16705	4.222846	26	16755
16656	4.221571	26	16706	4.222872	26	16756
16657	4.221597	26	16707	4.222898	26	16757
16658	4.221623	26	16708	4.222924	26	16758
16659	4.221649	26	16709	4.222950	26	16759
16660	4.221675	26	16710	4.222976	26	16760
16661	4.221701	26	16711	4.223002	26	16761
16662	4.221727	26	16712	4.223028	26	16762
16663	4.221753	26	16713	4.223054	26	16763
16664	4.221779	26	16714	4.223080	26	16764
16665	4.221805	26	16715	4.223106	26	16765
16666	4.221831	26	16716	4.223132	26	16766
16667	4.221857	26	16717	4.223158	26	16767
16668	4.221883	26	16718	4.223184	26	16768
16669	4.221910	27	16719	4.223210	26	16769
16670	4.221936	26	16720	4.223236	26	16770
16671	4.221962	26	16721	4.223262	26	16771
16672	4.221988	26	16722	4.223288	26	16772
16673	4.222014	26	16723	4.223314	26	16773
16674	4.222040	26	16724	4.223340	26	16774
16675	4.222066	26	16725	4.223366	26	16775
16676	4.222092	26	16726	4.223392	26	16776
16677	4.222118	26	16727	4.223418	26	16777
16678	4.222144	26	16728	4.223444	26	16778
16679	4.222170	26	16729	4.223470	26	16779
16680	4.222196	26	16730	4.223496	26	16780
16681	4.222222	26	16731	4.223522	26	16781
16682	4.222248	26	16732	4.223548	26	16782
16683	4.222274	26	16733	4.223574	26	16783
16684	4.222300	26	16734	4.223600	26	16784
16685	4.222326	26	16735	4.223626	26	16785
16686	4.222352	26	16736	4.223652	26	16786
16687	4.222378	26	16737	4.223678	26	16787
16688	4.222404	26	16738	4.223704	26	16788
16689	4.222430	26	16739	4.223730	26	16789
16690	4.222456	26	16740	4.223755	26	16790
16691	4.222482	26	16741	4.223781	26	16791
16692	4.222508	26	16742	4.223807	26	16792
16693	4.222534	26	16743	4.223833	26	16793
16694	4.222560	26	16744	4.223859	26	16794
16695	4.222586	26	16745	4.223885	26	16795
16696	4.222612	26	16746	4.223911	26	16796
16697	4.222638	26	16747	4.223937	26	16797
16698	4.222664	26	16748	4.223963	26	16798
16699	4.222690	26	16749	4.223989	26	16799
16700	4.222716	26	16750	4.224015	26	16800

Nomb.	4 40' 0"	D.	Nomb.	4 40' 50"	D.	Nomb.	4 41' 40"	D.
	Logarith.			Logarith.			Logarith.	
16800	4.225300	26	16850	4.226600	26	16900	4.227887	25
16801	4.225335	26	16851	4.226626	25	16901	4.227912	26
16802	4.225361	26	16852	4.226651	26	16902	4.227938	26
16803	4.225387	26	16853	4.226677	26	16903	4.227964	25
16804	4.225413	26	16854	4.226703	26	16904	4.227989	26
16805	4.225439	25	16855	4.226729	26	16905	4.228015	26
16806	4.225464	26	16856	4.226755	25	16906	4.228041	26
16807	4.225490	26	16857	4.226780	26	16907	4.228067	25
16808	4.225516	26	16858	4.226806	26	16908	4.228092	26
16809	4.225542	26	16859	4.226832	26	16909	4.228118	26
16810	4.225568	26	16860	4.226858	26	16910	4.228144	25
16811	4.225594	25	16861	4.226883	26	16911	4.228169	26
16812	4.225619	26	16862	4.226909	26	16912	4.228195	26
16813	4.225645	26	16863	4.226935	26	16913	4.228221	25
16814	4.225671	26	16864	4.226961	25	16914	4.228246	26
16815	4.225697	26	16865	4.226986	26	16915	4.228272	25
16816	4.225723	26	16866	4.227012	26	16916	4.228298	26
16817	4.225749	25	16867	4.227038	26	16917	4.228323	26
16818	4.225774	26	16868	4.227064	25	16918	4.228349	26
16819	4.225800	26	16869	4.227089	26	16919	4.228375	25
16820	4.225826	26	16870	4.227115	26	16920	4.228400	26
16821	4.225852	26	16871	4.227141	26	16921	4.228426	26
16822	4.225878	25	16872	4.227167	25	16922	4.228452	25
16823	4.225903	26	16873	4.227192	26	16923	4.228477	26
16824	4.225929	26	16874	4.227218	26	16924	4.228503	26
16825	4.225955	26	16875	4.227244	26	16925	4.228529	25
16826	4.225981	26	16876	4.227270	25	16926	4.228554	26
16827	4.226007	26	16877	4.227295	26	16927	4.228580	26
16828	4.226033	25	16878	4.227321	26	16928	4.228606	26
16829	4.226058	26	16879	4.227347	25	16929	4.228631	25
16830	4.226084	26	16880	4.227372	26	16930	4.228657	26
16831	4.226110	26	16881	4.227398	26	16931	4.228683	25
16832	4.226136	26	16882	4.227424	26	16932	4.228708	26
16833	4.226162	25	16883	4.227450	25	16933	4.228734	26
16834	4.226187	26	16884	4.227475	26	16934	4.228760	25
16835	4.226213	26	16885	4.227501	26	16935	4.228785	26
16836	4.226239	26	16886	4.227527	26	16936	4.228811	25
16837	4.226265	26	16887	4.227553	25	16937	4.228836	26
16838	4.226291	25	16888	4.227578	26	16938	4.228862	26
16839	4.226316	26	16889	4.227604	26	16939	4.228888	25
16840	4.226342	26	16890	4.227630	25	16940	4.228913	26
16841	4.226368	26	16891	4.227655	26	16941	4.228939	26
16842	4.226394	25	16892	4.227681	26	16942	4.228965	25
16843	4.226419	26	16893	4.227707	25	16943	4.228990	26
16844	4.226445	26	16894	4.227732	26	16944	4.229016	26
16845	4.226471	26	16895	4.227758	26	16945	4.229042	25
5846	4.226497	26	16896	4.227784	26	16946	4.229067	26
5847	4.226523	25	16897	4.227810	25	16947	4.229093	25
5848	4.226548	26	16898	4.227835	26	16948	4.229118	26
849	4.226574	26	16899	4.227861	26	16949	4.229144	26
850	4.226600	26	16900	4.227887	26	16950	4.229170	26

Nomb.	4 42 30 ^o Logarith.	D.	Nomb.	4 43 20 ^o Logarith.	D.	Nomb.	4 44 10 ^o Logarith.	D.
16950	4.229170		17000	4.230449	25	17050	4.231724	
16951	4.229195	25	17001	4.230474	26	17051	4.231750	26
16952	4.229221	26	17002	4.230500	26	17052	4.231775	25
16953	4.229247	26	17003	4.230526	26	17053	4.231801	26
16954	4.229272	25	17004	4.230551	25	17054	4.231826	25
		26			26			26
16955	4.229298	25	17005	4.230577	25	17055	4.231852	25
16956	4.229323	26	17006	4.230602	25	17056	4.231877	26
16957	4.229349	26	17007	4.230628	26	17057	4.231903	25
16958	4.229375	26	17008	4.230653	26	17058	4.231928	26
16959	4.229400	25	17009	4.230679	26	17059	4.231954	25
		26			25			25
16960	4.229426	25	17010	4.230704	26	17060	4.231979	25
16961	4.229451	26	17011	4.230730	25	17061	4.232004	26
16962	4.229477	26	17012	4.230755	25	17062	4.232030	26
16963	4.229503	26	17013	4.230781	25	17063	4.232055	25
16964	4.229528	25	17014	4.230806	26	17064	4.232081	26
		26			26			25
16965	4.229554	25	17015	4.230832	25	17065	4.232106	26
16966	4.229579	26	17016	4.230857	25	17066	4.232132	25
16967	4.229605	26	17017	4.230883	26	17067	4.232157	26
16968	4.229631	26	17018	4.230909	26	17068	4.232183	26
16969	4.229656	25	17019	4.230934	25	17069	4.232208	25
		26			26			26
16970	4.229682	25	17020	4.230960	26	17070	4.232234	25
16971	4.229707	26	17021	4.230985	25	17071	4.232259	25
16972	4.229733	26	17022	4.231011	25	17072	4.232284	26
16973	4.229759	26	17023	4.231036	25	17073	4.232310	26
16974	4.229784	25	17024	4.231062	26	17074	4.232335	25
		26			25			26
16975	4.229810	25	17025	4.231087	26	17075	4.232361	25
16976	4.229835	26	17026	4.231113	26	17076	4.232386	26
16977	4.229861	26	17027	4.231138	25	17077	4.232412	25
16978	4.229887	26	17028	4.231164	26	17078	4.232437	25
16979	4.229912	25	17029	4.231189	25	17079	4.232462	26
		26			26			26
16980	4.229938	25	17030	4.231215	25	17080	4.232488	25
16981	4.229963	26	17031	4.231240	26	17081	4.232513	26
16982	4.229989	26	17032	4.231266	26	17082	4.232539	25
16983	4.230014	25	17033	4.231291	25	17083	4.232564	26
16984	4.230040	26	17034	4.231317	26	17084	4.232590	25
		26			25			25
16985	4.230066	25	17035	4.231342	26	17085	4.232615	25
16986	4.230091	26	17036	4.231368	25	17086	4.232640	26
16987	4.230117	25	17037	4.231393	26	17087	4.232666	25
16988	4.230142	26	17038	4.231419	26	17088	4.232691	26
16989	4.230168	25	17039	4.231444	25	17089	4.232717	25
		26			26			26
16990	4.230193	26	17040	4.231470	25	17090	4.232742	25
16991	4.230219	25	17041	4.231495	26	17091	4.232767	26
16992	4.230244	26	17042	4.231521	25	17092	4.232793	25
16993	4.230270	26	17043	4.231546	26	17093	4.232818	26
16994	4.230296	26	17044	4.231572	26	17094	4.232844	25
		25			25			25
16995	4.230321	26	17045	4.231597	26	17095	4.232869	26
16996	4.230347	25	17046	4.231622	25	17096	4.232895	25
16997	4.230372	26	17047	4.231648	26	17097	4.232920	25
16998	4.230398	25	17048	4.231673	25	17098	4.232945	26
16999	4.230423	26	17049	4.231699	26	17099	4.232971	25
17000	4.230449	26	17050	4.231724	25	17100	4.232996	25

D.	Nomb.	4. 45' 50"	D.	Nomb.	4. 46' 40"	D.
		Logarith.			Logarith.	
26	17150	4.234264		17200	4.235528	
25	17151	4.234289	25	17201	4.235554	26
25	17152	4.234315	26	17202	4.235579	25
25	17153	4.234340	25	17203	4.235604	25
26	17154	4.234365	25	17204	4.235629	25
25			26			26
25	17155	4.234391	25	17205	4.235655	25
25	17156	4.234416	25	17206	4.235680	25
26	17157	4.234441	25	17207	4.235705	25
25	17158	4.234467	26	17208	4.235730	25
26	17159	4.234492	25	17209	4.235756	26
25			25			25
25	17160	4.234517	26	17210	4.235781	25
26	17161	4.234543	25	17211	4.235806	25
26	17162	4.234568	25	17212	4.235831	25
25	17163	4.234593	25	17213	4.235857	26
26	17164	4.234619	26	17214	4.235882	25
25			25			25
25	17165	4.234644	25	17215	4.235907	25
25	17166	4.234669	25	17216	4.235932	25
26	17167	4.234694	25	17217	4.235957	25
25	17168	4.234720	26	17218	4.235983	26
25	17169	4.234745	25	17219	4.236008	25
26			25			25
25	17170	4.234770	26	17220	4.236033	25
25	17171	4.234796	26	17221	4.236058	25
25	17172	4.234821	25	17222	4.236084	26
26	17173	4.234846	25	17223	4.236109	25
25	17174	4.234871	25	17224	4.236134	25
26			26			25
25	17175	4.234897	25	17225	4.236159	25
25	17176	4.234922	25	17226	4.236184	25
25	17177	4.234947	26	17227	4.236210	26
26	17178	4.234973	26	17228	4.236235	25
25	17179	4.234998	25	17229	4.236260	25
25			25			25
25	17180	4.235023	25	17230	4.236285	25
26	17181	4.235048	25	17231	4.236310	25
25	17182	4.235074	26	17232	4.236336	26
25	17183	4.235099	25	17233	4.236361	25
26	17184	4.235124	25	17234	4.236386	25
25			26			25
25	17185	4.235150	25	17235	4.236411	25
25	17186	4.235175	25	17236	4.236436	25
26	17187	4.235200	25	17237	4.236462	26
25	17188	4.235225	25	17238	4.236487	25
25	17189	4.235251	25	17239	4.236512	25
26			26			25
25	17190	4.235276	25	17240	4.236537	25
25	17191	4.235301	25	17241	4.236562	25
25	17192	4.235326	25	17242	4.236588	26
26	17193	4.235352	26	17243	4.236613	25
25	17194	4.235377	25	17244	4.236638	25
25			25			25
25	17195	4.235402	25	17245	4.236663	25
26	17196	4.235427	25	17246	4.236688	25
25	17197	4.235453	26	17247	4.236714	26
25	17198	4.235478	25	17248	4.236739	25
26	17199	4.235503	25	17249	4.236764	25
25	17200	4.235528	25	17250	4.236789	25

Nomb.	4. 47' 30"	D.	Nomb.	4. 48' 20"	D.	Nomb.	4
	Logarith.			Logarith.			
17250	4.236789	25	17300	4.238046	25	17350	4
17251	4.236814	25	17301	4.238071	25	17351	4
17252	4.236839	25	17302	4.238096	25	17352	4
17253	4.236865	26	17303	4.238121	25	17353	4
17254	4.236890	25	17304	4.238147	26	17354	4
17255	4.236915	25	17305	4.238172	25	17355	4
17256	4.236940	25	17306	4.238197	25	17356	4
17257	4.236965	25	17307	4.238222	25	17357	4
17258	4.236990	25	17308	4.238247	25	17358	4
17259	4.237016	26	17309	4.238272	25	17359	4
17260	4.237041	25	17310	4.238297	25	17360	4
17261	4.237066	25	17311	4.238322	25	17361	4
17262	4.237091	25	17312	4.238347	25	17362	4
17263	4.237116	25	17313	4.238372	25	17363	4
17264	4.237141	25	17314	4.238397	25	17364	4
17265	4.237167	26	17315	4.238422	25	17365	4
17266	4.237192	25	17316	4.238448	26	17366	4
17267	4.237217	25	17317	4.238473	25	17367	4
17268	4.237242	25	17318	4.238498	25	17368	4
17269	4.237267	25	17319	4.238523	25	17369	4
17270	4.237292	25	17320	4.238548	25	17370	4
17271	4.237317	25	17321	4.238573	25	17371	4
17272	4.237343	26	17322	4.238598	25	17372	4
17273	4.237368	25	17323	4.238623	25	17373	4
17274	4.237393	25	17324	4.238648	25	17374	4
17275	4.237418	25	17325	4.238673	25	17375	4
17276	4.237443	25	17326	4.238698	25	17376	4
17277	4.237468	25	17327	4.238723	25	17377	4
17278	4.237493	25	17328	4.238748	25	17378	4
17279	4.237519	26	17329	4.238773	25	17379	4
17280	4.237544	25	17330	4.238799	26	17380	4
17281	4.237569	25	17331	4.238824	25	17381	4
17282	4.237594	25	17332	4.238849	25	17382	4
17283	4.237619	25	17333	4.238874	25	17383	4
17284	4.237644	25	17334	4.238899	25	17384	4
17285	4.237669	25	17335	4.238924	25	17385	4
17286	4.237694	26	17336	4.238949	25	17386	4
17287	4.237720	25	17337	4.238974	25	17387	4
17288	4.237745	25	17338	4.238999	25	17388	4
17289	4.237770	25	17339	4.239024	25	17389	4
17290	4.237795	25	17340	4.239049	25	17390	4
17291	4.237820	25	17341	4.239074	25	17391	4
17292	4.237845	25	17342	4.239099	25	17392	4
17293	4.237870	25	17343	4.239124	25	17393	4
17294	4.237895	25	17344	4.239149	25	17394	4
17295	4.237921	26	17345	4.239174	25	17395	4
17296	4.237946	25	17346	4.239199	25	17396	4
17297	4.237971	25	17347	4.239224	25	17397	4
17298	4.237996	25	17348	4.239249	25	17398	4
17299	4.238021	25	17349	4.239274	25	17399	4
17300	4.238046	25	17350	4.239299	25	17400	4

0' 0"	D.	Nomb.	4. 50' 50"	D.	Nomb.	4. 51' 40"	D.
arith.			Logarith.			Logarith.	
0549	25	17450	4.241795	25	17500	4.243038	25
0574	25	17451	4.241820	25	17501	4.243063	25
0599	25	17452	4.241845	25	17502	4.243088	24
0624	25	17453	4.241870	25	17503	4.243112	25
0649	25	17454	4.241895	25	17504	4.243137	25
0674	25	17455	4.241920	25	17505	4.243162	25
0699	25	17456	4.241945	25	17506	4.243187	25
0724	25	17457	4.241970	24	17507	4.243212	25
0749	25	17458	4.241994	25	17508	4.243237	25
0774	25	17459	4.242019	25	17509	4.243262	24
0799	25	17460	4.242044	25	17510	4.243286	25
0824	25	17461	4.242069	25	17511	4.243311	25
0849	25	17462	4.242094	25	17512	4.243336	24
0874	24	17463	4.242119	25	17513	4.243360	25
0898	25	17464	4.242144	25	17514	4.243385	25
0923	25	17465	4.242169	24	17515	4.243410	25
0948	25	17466	4.242193	25	17516	4.243435	25
0973	25	17467	4.242218	25	17517	4.243460	24
0998	25	17468	4.242243	25	17518	4.243484	25
1023	25	17469	4.242268	25	17519	4.243509	25
1048	25	17470	4.242293	25	17520	4.243534	25
1073	25	17471	4.242318	25	17521	4.243559	25
1098	25	17472	4.242343	24	17522	4.243584	24
1123	25	17473	4.242367	25	17523	4.243608	25
1148	25	17474	4.242392	25	17524	4.243633	25
1173	25	17475	4.242417	25	17525	4.243658	25
1198	25	17476	4.242442	25	17526	4.243683	25
1223	25	17477	4.242467	25	17527	4.243708	24
1248	25	17478	4.242492	25	17528	4.243732	25
1272	24	17479	4.242517	24	17529	4.243757	25
1297	25	17480	4.242541	25	17530	4.243782	25
1322	25	17481	4.242566	25	17531	4.243807	24
1347	25	17482	4.242591	25	17532	4.243831	25
1372	25	17483	4.242616	25	17533	4.243856	25
1397	25	17484	4.242641	25	17534	4.243881	25
1422	25	17485	4.242666	24	17535	4.243906	25
1447	25	17486	4.242690	25	17536	4.243931	24
1472	25	17487	4.242715	25	17537	4.243955	25
1497	25	17488	4.242740	25	17538	4.243980	25
1522	24	17489	4.242765	25	17539	4.244005	25
1546	25	17490	4.242790	25	17540	4.244030	24
1571	25	17491	4.242815	24	17541	4.244054	25
1596	25	17492	4.242839	25	17542	4.244079	25
1621	25	17493	4.242864	25	17543	4.244104	25
1646	25	17494	4.242889	25	17544	4.244129	24
1671	25	17495	4.242914	25	17545	4.244153	25
1696	25	17496	4.242939	25	17546	4.244178	25
1721	25	17497	4.242964	24	17547	4.244203	25
1746	25	17498	4.242988	25	17548	4.244228	24
1771	24	17499	4.243013	25	17549	4.244252	25
1795	24	17500	4.243038	25	17550	4.244277	25

17559	4.244500	25	17609	4.245735	25	17659
17560	4.244524	24	17610	4.245759	24	17660
17561	4.244549	25	17611	4.245784	25	17661
17562	4.244574	25	17612	4.245809	25	17662
17563	4.244599	25	17613	4.245833	24	17663
17564	4.244623	24	17614	4.245858	25	17664
		25			25	
17565	4.244648	25	17615	4.245883	25	17665
17566	4.244673	25	17616	4.245907	24	17666
17567	4.244698	25	17617	4.245932	25	17667
17568	4.244722	24	17618	4.245957	25	17668
17569	4.244747	25	17619	4.245981	24	17669
		25			25	
17570	4.244772	24	17620	4.246006	25	17670
17571	4.244796	24	17621	4.246031	25	17671
17572	4.244821	25	17622	4.246055	24	17672
17573	4.244846	25	17623	4.246080	25	17673
17574	4.244871	25	17624	4.246104	24	17674
		24			25	
17575	4.244895	25	17625	4.246129	25	17675
17576	4.244920	25	17626	4.246154	25	17676
17577	4.244945	25	17627	4.246178	24	17677
17578	4.244969	24	17628	4.246203	25	17678
17579	4.244994	25	17629	4.246228	25	17679
		25			24	
17580	4.245019	25	17630	4.246252	25	17680
17581	4.245044	25	17631	4.246277	25	17681
17582	4.245068	24	17632	4.246302	25	17682
17583	4.245093	25	17633	4.246326	24	17683
17584	4.245118	25	17634	4.246351	25	17684
		24			24	
17585	4.245142	25	17635	4.246375	25	17685
17586	4.245167	25	17636	4.246400	25	17686
17587	4.245192	25	17637	4.246425	25	17687
17588	4.245216	24	17638	4.246449	24	17688
17589	4.245241	25	17639	4.246474	25	17689
		25			25	
17590	4.245266	24	17640	4.246499	24	17690
17591	4.245290	24	17641	4.246523	24	17691

4 55 0° Logarithh.	D.	Nomb.	4 55 50° Logarithh.	D.	Nomb.	4 56 40° Logarithh.	D.
4.247973	25	17750	4.249198	25	17800	4.250420	24
4.247998	24	17751	4.249223	24	17801	4.250444	25
4.248022	25	17752	4.249247	25	17802	4.250469	24
4.248047	24	17753	4.249272	24	17803	4.250493	25
4.248071	25	17754	4.249296	25	17804	4.250518	24
4.248096	24	17755	4.249321	24	17805	4.250542	25
4.248120	25	17756	4.249345	25	17806	4.250566	24
4.248145	24	17757	4.249370	24	17807	4.250591	25
4.248169	25	17758	4.249394	25	17808	4.250615	24
4.248194	24	17759	4.249418	24	17809	4.250639	25
4.248219	25	17760	4.249443	25	17810	4.250664	24
4.248243	24	17761	4.249467	24	17811	4.250688	25
4.248268	25	17762	4.249492	25	17812	4.250713	24
4.248292	24	17763	4.249516	24	17813	4.250737	25
4.248317	25	17764	4.249541	25	17814	4.250761	24
4.248341	24	17765	4.249565	24	17815	4.250786	25
4.248366	25	17766	4.249590	25	17816	4.250810	24
4.248390	24	17767	4.249614	24	17817	4.250835	25
4.248415	25	17768	4.249638	25	17818	4.250859	24
4.248439	24	17769	4.249663	24	17819	4.250883	25
4.248464	25	17770	4.249687	25	17820	4.250908	24
4.248488	24	17771	4.249712	24	17821	4.250932	25
4.248513	25	17772	4.249736	25	17822	4.250956	24
4.248537	24	17773	4.249761	24	17823	4.250981	25
4.248562	25	17774	4.249785	25	17824	4.251005	24
4.248586	24	17775	4.249810	24	17825	4.251029	25
4.248611	25	17776	4.249834	25	17826	4.251054	24
4.248635	24	17777	4.249858	24	17827	4.251078	25
4.248660	25	17778	4.249883	25	17828	4.251103	24
4.248684	24	17779	4.249907	24	17829	4.251127	25
4.248709	25	17780	4.249932	25	17830	4.251151	24
4.248733	24	17781	4.249956	24	17831	4.251176	25
4.248758	25	17782	4.249981	25	17832	4.251200	24
4.248782	24	17783	4.250005	24	17833	4.251224	25
4.248807	25	17784	4.250029	25	17834	4.251249	24
4.248831	24	17785	4.250054	24	17835	4.251273	25
4.248856	25	17786	4.250078	25	17836	4.251297	24
4.248880	24	17787	4.250103	24	17837	4.251322	25
4.248905	25	17788	4.250127	25	17838	4.251346	24
4.248929	24	17789	4.250151	24	17839	4.251370	25
4.248954	25	17790	4.250176	25	17840	4.251395	24
4.248978	24	17791	4.250200	24	17841	4.251419	25
4.249003	25	17792	4.250225	25	17842	4.251443	24
4.249027	24	17793	4.250249	24	17843	4.251468	25
4.249051	25	17794	4.250274	25	17844	4.251492	24
4.249076	24	17795	4.250298	24	17845	4.251517	25
4.249100	25	17796	4.250322	25	17846	4.251541	24
4.249125	24	17797	4.250347	24	17847	4.251565	25
4.249149	25	17798	4.250371	25	17848	4.251590	24
4.249174	24	17799	4.250396	24	17849	4.251614	25
4.249198	25	17800	4.250420	25	17850	4.251638	24

Nomb.	4. 57' 30"	D.	Nomb.	4. 58' 20"	D.	Nomb.	4.
	Logarith.			Logarith.			I
17850	4.251638	25	17900	4.252853	24	17950	4.
17851	4.251663	24	17901	4.252877	25	17951	4.
17852	4.251687	24	17902	4.252902	24	17952	4.
17853	4.251711	24	17903	4.252926	24	17953	4.
17854	4.251735	24	17904	4.252950	24	17954	4.
17855	4.251760	25	17905	4.252974	25	17955	4.
17856	4.251784	24	17906	4.252999	24	17956	4.
17857	4.251808	24	17907	4.253023	24	17957	4.
17858	4.251833	25	17908	4.253047	24	17958	4.
17859	4.251857	24	17909	4.253071	24	17959	4.
17860	4.251881	24	17910	4.253096	25	17960	4.
17861	4.251906	25	17911	4.253120	24	17961	4.
17862	4.251930	24	17912	4.253144	24	17962	4.
17863	4.251954	24	17913	4.253168	24	17963	4.
17864	4.251979	25	17914	4.253193	25	17964	4.
17865	4.252003	24	17915	4.253217	24	17965	4.
17866	4.252027	24	17916	4.253241	24	17966	4.
17867	4.252052	25	17917	4.253265	24	17967	4.
17868	4.252076	24	17918	4.253289	24	17968	4.
17869	4.252100	24	17919	4.253314	25	17969	4.
17870	4.252125	25	17920	4.253338	24	17970	4.
17871	4.252149	24	17921	4.253362	24	17971	4.
17872	4.252173	24	17922	4.253386	24	17972	4.
17873	4.252197	24	17923	4.253411	25	17973	4.
17874	4.252222	25	17924	4.253435	24	17974	4.
17875	4.252246	24	17925	4.253459	24	17975	4.
17876	4.252270	24	17926	4.253483	25	17976	4.
17877	4.252295	25	17927	4.253508	24	17977	4.
17878	4.252319	24	17928	4.253532	24	17978	4.
17879	4.252343	24	17929	4.253556	24	17979	4.
17880	4.252367	24	17930	4.253580	24	17980	4.
17881	4.252392	25	17931	4.253604	25	17981	4.
17882	4.252416	24	17932	4.253629	24	17982	4.
17883	4.252440	24	17933	4.253653	24	17983	4.
17884	4.252465	25	17934	4.253677	24	17984	4.
17885	4.252489	24	17935	4.253701	24	17985	4.
17886	4.252513	24	17936	4.253726	25	17986	4.
17887	4.252537	24	17937	4.253750	24	17987	4.
17888	4.252562	25	17938	4.253774	24	17988	4.
17889	4.252586	24	17939	4.253798	24	17989	4.
17890	4.252610	24	17940	4.253822	24	17990	4.

5. 0' 0"	D.	Nomb.	5. 0' 50"	D.	Nomb.	5. 1' 40"	D.
Logarith.			Logarith.			Logarith.	
.255273	24	18050	4.256477	24	18100	4.257679	24
.255297	24	18051	4.256501	24	18101	4.257703	24
.255321	24	18052	4.256525	24	18102	4.257727	24
.255345	24	18053	4.256549	24	18103	4.257751	24
.255369	24	18054	4.256573	24	18104	4.257775	24
.255393	24	18055	4.256597	24	18105	4.257799	24
.255417	24	18056	4.256621	24	18106	4.257822	24
.255441	24	18057	4.256646	24	18107	4.257846	24
.255465	24	18058	4.256670	24	18108	4.257870	24
.255490	25	18059	4.256694	24	18109	4.257894	24
.255514	24	18060	4.256718	24	18110	4.257918	24
.255538	24	18061	4.256742	24	18111	4.257942	24
.255562	24	18062	4.256766	24	18112	4.257966	24
.255586	24	18063	4.256790	24	18113	4.257990	24
.255610	24	18064	4.256814	24	18114	4.258014	24
.255634	24	18065	4.256838	24	18115	4.258038	24
.255658	24	18066	4.256862	24	18116	4.258062	24
.255682	24	18067	4.256886	24	18117	4.258086	24
.255707	25	18068	4.256910	24	18118	4.258110	24
.255731	24	18069	4.256934	24	18119	4.258134	24
.255755	24	18070	4.256958	24	18120	4.258158	24
.255779	24	18071	4.256982	24	18121	4.258182	24
.255803	24	18072	4.257006	24	18122	4.258206	24
.255827	24	18073	4.257030	24	18123	4.258230	24
.255851	24	18074	4.257054	24	18124	4.258254	24
.255875	24	18075	4.257078	24	18125	4.258278	24
.255899	24	18076	4.257102	24	18126	4.258302	24
.255923	24	18077	4.257126	24	18127	4.258326	24
.255947	25	18078	4.257150	24	18128	4.258350	24
.255972	24	18079	4.257174	24	18129	4.258374	24
.255996	24	18080	4.257198	24	18130	4.258398	24
.256020	24	18081	4.257222	24	18131	4.258422	24
.256044	24	18082	4.257246	24	18132	4.258446	24
.256068	24	18083	4.257270	24	18133	4.258470	24
.256092	24	18084	4.257294	24	18134	4.258494	24
.256116	24	18085	4.257318	24	18135	4.258518	24
.256140	24	18086	4.257342	24	18136	4.258542	24
.256164	24	18087	4.257366	24	18137	4.258566	24
.256188	24	18088	4.257390	25	18138	4.258590	24
.256212	24	18089	4.257415	24	18139	4.258613	24
.256236	25	18090	4.257439	24	18140	4.258637	24
.256261	24	18091	4.257463	24	18141	4.258661	24
.256285	24	18092	4.257487	24	18142	4.258685	24
.256309	24	18093	4.257511	24	18143	4.258709	24
.256333	24	18094	4.257535	24	18144	4.258733	24
.256357	24	18095	4.257559	24	18145	4.258757	24
.256381	24	18096	4.257583	24	18146	4.258781	24
.256405	24	18097	4.257607	24	18147	4.258805	24
.256429	24	18098	4.257631	24	18148	4.258829	24
.256453	24	18099	4.257655	24	18149	4.258853	24
.256477	24	18100	4.257679	24	18150	4.258877	24

Nomb.	4. 2' 30"	D.	Nomb.	4. 3' 20"	D.	Nomb.	4. 4' 10"	D.
	Logarith.			Logarith.			Logarith.	
14550	4.162875		14600	4.164353		14650	4.165838	
14551	4.162895	30	14601	4.164383	30	14651	4.165867	29
14552	4.162923	30	14602	4.164412	29	14652	4.165897	30
14553	4.162953	30	14603	4.164442	30	14653	4.165927	30
14554	4.162982	29	14604	4.164472	30	14654	4.165956	29
14555	4.163012	30	14605	4.164502	30	14655	4.165986	30
14556	4.163042	30	14606	4.164531	29	14656	4.166015	29
14557	4.163072	30	14607	4.164561	30	14657	4.166045	30
14558	4.163102	30	14608	4.164591	30	14658	4.166075	30
14559	4.163132	30	14609	4.164620	29	14659	4.166104	29
14560	4.163161	29	14610	4.164650	30	14660	4.166134	30
14561	4.163191	30	14611	4.164680	30	14661	4.166164	30
14562	4.163221	30	14612	4.164710	30	14662	4.166193	29
14563	4.163251	30	14613	4.164739	29	14663	4.166223	30
14564	4.163281	30	14614	4.164769	30	14664	4.166252	29
14565	4.163310	29	14615	4.164799	30	14665	4.166282	30
14566	4.163340	30	14616	4.164829	30	14666	4.166312	29
14567	4.163370	30	14617	4.164858	29	14667	4.166341	29
14568	4.163400	30	14618	4.164888	30	14668	4.166371	30
14569	4.163430	30	14619	4.164918	30	14669	4.166401	30
14570	4.163460	29	14620	4.164947	29	14670	4.166430	29
14571	4.163489	29	14621	4.164977	30	14671	4.166460	30
14572	4.163519	30	14622	4.165007	30	14672	4.166489	29
14573	4.163549	30	14623	4.165036	29	14673	4.166519	30
14574	4.163579	30	14624	4.165066	30	14674	4.166549	30
14575	4.163609	30	14625	4.165096	30	14675	4.166578	29
14576	4.163638	29	14626	4.165126	30	14676	4.166608	30
14577	4.163668	30	14627	4.165155	29	14677	4.166637	29
14578	4.163698	30	14628	4.165185	30	14678	4.166667	29
14579	4.163728	30	14629	4.165215	30	14679	4.166696	29
14580	4.163758	29	14630	4.165244	29	14680	4.166726	30
14581	4.163787	29	14631	4.165274	30	14681	4.166756	30
14582	4.163817	30	14632	4.165304	30	14682	4.166785	29
14583	4.163847	30	14633	4.165333	29	14683	4.166815	30
14584	4.163877	30	14634	4.165363	30	14684	4.166844	29
14585	4.163906	29	14635	4.165393	30	14685	4.166874	30
14586	4.163936	30	14636	4.165422	29	14686	4.166904	30
14587	4.163966	30	14637	4.165452	30	14687	4.166933	29
14588	4.163996	30	14638	4.165482	30	14688	4.166963	30
14589	4.164026	30	14639	4.165511	29	14689	4.166992	29
14590	4.164055	29	14640	4.165541	30	14690	4.167022	30
14591	4.164085	30	14641	4.165571	30	14691	4.167051	29
14592	4.164115	30	14642	4.165600	29	14692	4.167081	30
14593	4.164145	30	14643	4.165630	30	14693	4.167110	29
14594	4.164174	29	14644	4.165660	30	14694	4.167140	30
14595	4.164204	30	14645	4.165689	29	14695	4.167170	30
14596	4.164234	30	14646	4.165719	30	14696	4.167199	29
14597	4.164264	30	14647	4.165749	30	14697	4.167229	30
14598	4.164293	29	14648	4.165778	29	14698	4.167258	29
14599	4.164323	30	14649	4.165808	30	14699	4.167288	30
14600	4.164353	30	14650	4.165838	30	14700	4.167317	29

Nomb.	4. 5' 0"	D.	Nomb.	4. 5' 50"	D.	Nomb.	4. 6' 40"	D.
	Logarith.			Logarith.			Logarith.	
14700	4.167317	30	14750	4.168792	29	14800	4.170262	29
14701	4.167347	29	14751	4.168821	30	14801	4.170291	29
14702	4.167376	29	14752	4.168851	30	14802	4.170320	29
14703	4.167406	30	14753	4.168880	29	14803	4.170350	30
14704	4.167435	29	14754	4.168910	30	14804	4.170379	29
14705	4.167465	30	14755	4.168939	29	14805	4.170408	29
14706	4.167495	30	14756	4.168969	30	14806	4.170438	30
14707	4.167524	29	14757	4.168998	29	14807	4.170467	29
14708	4.167554	30	14758	4.169028	30	14808	4.170496	29
14709	4.167583	29	14759	4.169057	29	14809	4.170526	30
14710	4.167613	30	14760	4.169086	29	14810	4.170555	29
14711	4.167642	29	14761	4.169116	30	14811	4.170584	29
14712	4.167672	30	14762	4.169145	29	14812	4.170614	30
14713	4.167701	29	14763	4.169175	30	14813	4.170643	29
14714	4.167731	30	14764	4.169204	29	14814	4.170672	29
14715	4.167760	29	14765	4.169233	29	14815	4.170702	30
14716	4.167790	30	14766	4.169263	30	14816	4.170731	29
14717	4.167819	29	14767	4.169292	29	14817	4.170760	29
14718	4.167849	30	14768	4.169322	30	14818	4.170790	30
14719	4.167878	29	14769	4.169351	29	14819	4.170819	29
14720	4.167908	30	14770	4.169380	29	14820	4.170848	29
14721	4.167937	29	14771	4.169410	30	14821	4.170878	30
14722	4.167967	30	14772	4.169439	29	14822	4.170907	29
14723	4.167996	29	14773	4.169469	30	14823	4.170936	29
14724	4.168026	30	14774	4.169498	29	14824	4.170965	29
14725	4.168055	29	14775	4.169527	29	14825	4.170995	30
14726	4.168085	30	14776	4.169557	30	14826	4.171024	29
14727	4.168114	29	14777	4.169586	29	14827	4.171053	29
14728	4.168144	30	14778	4.169616	30	14828	4.171083	30
14729	4.168173	29	14779	4.169645	29	14829	4.171112	29
14730	4.168203	30	14780	4.169674	29	14830	4.171141	29
14731	4.168232	29	14781	4.169704	30	14831	4.171170	29
14732	4.168262	30	14782	4.169733	29	14832	4.171200	30
14733	4.168291	29	14783	4.169763	30	14833	4.171229	29
14734	4.168321	30	14784	4.169792	29	14834	4.171258	29
14735	4.168350	29	14785	4.169821	29	14835	4.171288	30
14736	4.168380	30	14786	4.169850	29	14836	4.171317	29
14737	4.168409	29	14787	4.169880	30	14837	4.171346	29
14738	4.168439	30	14788	4.169909	29	14838	4.171375	29
14739	4.168468	29	14789	4.169939	30	14839	4.171405	30
14740	4.168497	29	14790	4.169968	29	14840	4.171434	29
14741	4.168527	30	14791	4.169998	30	14841	4.171463	29
14742	4.168556	29	14792	4.170027	29	14842	4.171492	29
14743	4.168586	30	14793	4.170056	29	14843	4.171522	30
14744	4.168615	29	14794	4.170086	30	14844	4.171551	29
14745	4.168645	30	14795	4.170115	29	14845	4.171580	29
14746	4.168674	29	14796	4.170144	29	14846	4.171609	29
14747	4.168704	30	14797	4.170174	30	14847	4.171639	30
14748	4.168733	29	14798	4.170203	29	14848	4.171668	29
14749	4.168763	30	14799	4.170232	29	14849	4.171697	29
14750	4.168792	29	14800	4.170262	30	14850	4.171726	29

Nomb.	4. 7' 30" Logarith.	D.	Nomb.	4. 8' 20" Logarith.	D.	Nomb.	4. 9' 10" Logarith.	D.
14850	4.171726	30	14900	4.173186		14950	4.174641	29
14851	4.171756		14901	4.173215	29	14951	4.174670	29
14852	4.171785	29	14902	4.173245	30	14952	4.174699	29
14853	4.171814	29	14903	4.173274	29	14953	4.174728	29
14854	4.171843	29	14904	4.173303	29	14954	4.174757	29
		30			29			29
14855	4.171873		14905	4.173332	29	14955	4.174786	29
14856	4.171902	29	14906	4.173361	29	14956	4.174815	29
14857	4.171931	29	14907	4.173390	29	14957	4.174844	29
14858	4.171960	29	14908	4.173419	29	14958	4.174874	30
14859	4.171990	30	14909	4.173449	30	14959	4.174903	29
		29			29			29
14860	4.172019		14910	4.173478	29	14960	4.174932	29
14861	4.172048	29	14911	4.173507	29	14961	4.174961	29
14862	4.172077	29	14912	4.173536	29	14962	4.174990	29
14863	4.172106	29	14913	4.173565	29	14963	4.175019	29
14864	4.172136	30	14914	4.173594	29	14964	4.175048	29
		29			29			29
14865	4.172165		14915	4.173623	29	14965	4.175077	29
14866	4.172194	29	14916	4.173652	29	14966	4.175106	29
14867	4.172223	29	14917	4.173681	29	14967	4.175135	29
14868	4.172253	30	14918	4.173711	30	14968	4.175164	29
14869	4.172282	29	14919	4.173740	29	14969	4.175193	29
		29			29			29
14870	4.172311		14920	4.173769	29	14970	4.175222	29
14871	4.172340	29	14921	4.173798	29	14971	4.175251	29
14872	4.172369	29	14922	4.173827	29	14972	4.175280	29
14873	4.172399	30	14923	4.173856	29	14973	4.175309	29
14874	4.172428	29	14924	4.173885	29	14974	4.175338	29
		29			29			29
14875	4.172457		14925	4.173914	29	14975	4.175367	29
14876	4.172486	29	14926	4.173943	29	14976	4.175396	29
14877	4.172515	29	14927	4.173973	30	14977	4.175425	29
14878	4.172545	30	14928	4.174002	29	14978	4.175454	29
14879	4.172574	29	14929	4.174031	29	14979	4.175483	29
		29			29			29
14880	4.172603		14930	4.174060	29	14980	4.175512	29
14881	4.172632	29	14931	4.174089	29	14981	4.175541	29
14882	4.172661	29	14932	4.174118	29	14982	4.175570	29
14883	4.172691	30	14933	4.174147	29	14983	4.175599	29
14884	4.172720	29	14934	4.174176	29	14984	4.175628	29
		29			29			29
14885	4.172749		14935	4.174205	29	14985	4.175657	29
14886	4.172778	29	14936	4.174234	29	14986	4.175686	29
14887	4.172807	29	14937	4.174263	29	14987	4.175715	29
14888	4.172836	29	14938	4.174292	29	14988	4.175744	29
14889	4.172866	30	14939	4.174322	30	14989	4.175773	29
		29			29			29
14890	4.172895		14940	4.174351	29	14990	4.175802	29
14891	4.172924	29	14941	4.174380	29	14991	4.175831	29
14892	4.172953	29	14942	4.174409	29	14992	4.175860	29
14893	4.172982	29	14943	4.174438	29	14993	4.175889	29
14894	4.173011	29	14944	4.174467	29	14994	4.175918	29
		30			29			28
14895	4.173041		14945	4.174496	29	14995	4.175947	29
14896	4.173070	29	14946	4.174525	29	14996	4.175975	29
14897	4.173099	29	14947	4.174554	29	14997	4.176004	29
14898	4.173128	29	14948	4.174583	29	14998	4.176033	29
14899	4.173157	29	14949	4.174612	29	14999	4.176062	29
14900	4.173186	29	14950	4.174641	29	15000	4.176091	29

Nomb.	4. 10' 0"	D.	Nomb.	4. 10' 50"	D.	Nomb.	4. 11' 40"	D.
	Logarith.			Logarith.			Logarith.	
15000	4.176091	29	15050	4.177537	28	15100	4.178977	29
15001	4.176120	29	15051	4.177565	29	15101	4.179006	28
15002	4.176149	29	15052	4.177594	29	15102	4.179034	29
15003	4.176178	29	15053	4.177623	29	15103	4.179063	29
15004	4.176207	29	15054	4.177652	29	15104	4.179092	29
15005	4.176236	29	15055	4.177681	29	15105	4.179121	29
15006	4.176265	29	15056	4.177710	28	15106	4.179149	28
15007	4.176294	29	15057	4.177738	28	15107	4.179178	29
15008	4.176323	29	15058	4.177767	29	15108	4.179207	29
15009	4.176352	29	15059	4.177796	29	15109	4.179236	29
15010	4.176381	29	15060	4.177825	29	15110	4.179264	28
15011	4.176410	29	15061	4.177854	29	15111	4.179293	29
15012	4.176439	29	15062	4.177883	28	15112	4.179322	29
15013	4.176468	29	15063	4.177911	28	15113	4.179351	29
15014	4.176496	28	15064	4.177940	29	15114	4.179379	28
15015	4.176525	29	15065	4.177969	29	15115	4.179408	29
15016	4.176554	29	15066	4.177998	29	15116	4.179437	29
15017	4.176583	29	15067	4.178027	29	15117	4.179466	29
15018	4.176612	29	15068	4.178056	28	15118	4.179494	28
15019	4.176641	29	15069	4.178084	28	15119	4.179523	29
15020	4.176670	29	15070	4.178113	29	15120	4.179552	29
15021	4.176699	29	15071	4.178142	29	15121	4.179581	29
15022	4.176728	29	15072	4.178171	29	15122	4.179609	28
15023	4.176757	29	15073	4.178200	29	15123	4.179638	29
15024	4.176786	29	15074	4.178229	29	15124	4.179667	29
15025	4.176815	29	15075	4.178257	28	15125	4.179695	28
15026	4.176843	28	15076	4.178286	29	15126	4.179724	29
15027	4.176872	29	15077	4.178315	29	15127	4.179753	29
15028	4.176901	29	15078	4.178344	29	15128	4.179782	29
15029	4.176930	29	15079	4.178373	29	15129	4.179810	28
15030	4.176959	29	15080	4.178401	28	15130	4.179839	29
15031	4.176988	29	15081	4.178430	29	15131	4.179868	29
15032	4.177017	29	15082	4.178459	29	15132	4.179896	28
15033	4.177046	29	15083	4.178488	29	15133	4.179925	29
15034	4.177075	29	15084	4.178517	29	15134	4.179954	29
15035	4.177103	28	15085	4.178545	28	15135	4.179982	28
15036	4.177132	29	15086	4.178574	29	15136	4.180011	29
15037	4.177161	29	15087	4.178603	29	15137	4.180040	29
15038	4.177190	29	15088	4.178632	29	15138	4.180069	29
15039	4.177219	29	15089	4.178660	28	15139	4.180097	28
15040	4.177248	29	15090	4.178689	29	15140	4.180126	29
15041	4.177277	29	15091	4.178718	29	15141	4.180155	29
15042	4.177306	29	15092	4.178747	29	15142	4.180183	28
15043	4.177334	28	15093	4.178776	29	15143	4.180212	29
15044	4.177363	29	15094	4.178804	28	15144	4.180241	29
15045	4.177392	29	15095	4.178833	29	15145	4.180269	28
15046	4.177421	29	15096	4.178862	29	15146	4.180298	29
15047	4.177450	29	15097	4.178891	28	15147	4.180327	29
15048	4.177479	29	15098	4.178919	28	15148	4.180355	28
15049	4.177508	29	15099	4.178948	29	15149	4.180384	29
15050	4.177537	29	15100	4.178977	29	15150	4.180413	29

Nomb.	5. 12' 30"	D.	Nomb.	5. 13' 20"	D.	Nomb.
	Logarith.			Logarith.		
18-50	4.273001		18800	4.274158		18850
18-51	4.273024	23	18801	4.274181	23	18851
18-52	4.273048	24	18802	4.274204	23	18852
18-53	4.273071	23	18803	4.274227	23	18853
18-54	4.273094	23	18804	4.274250	23	18854
18-55	4.273117	23	18805	4.274273	23	18855
18-56	4.273140	23	18806	4.274296	23	18856
18-57	4.273163	23	18807	4.274320	24	18857
18-58	4.273187	24	18808	4.274343	23	18858
18-59	4.273210	23	18809	4.274366	23	18859
18-60	4.273233	23	18810	4.274389	23	18860
18-61	4.273256	23	18811	4.274412	23	18861
18-62	4.273279	23	18812	4.274435	23	18862
18-63	4.273302	23	18813	4.274458	23	18863
18-64	4.273325	23	18814	4.274481	23	18864
18-65	4.273349	24	18815	4.274504	23	18865
18-66	4.273372	23	18816	4.274527	23	18866
18-67	4.273395	23	18817	4.274550	23	18867
18-68	4.273418	23	18818	4.274573	23	18868
18-69	4.273441	23	18819	4.274597	24	18869
18-70	4.273464	23	18820	4.274620	23	18870
18-71	4.273487	23	18821	4.274643	23	18871
18-72	4.273511	24	18822	4.274666	23	18872
18-73	4.273534	23	18823	4.274689	23	18873
18-74	4.273557	23	18824	4.274712	23	18874
18-75	4.273580	23	18825	4.274735	23	18875
18-76	4.273603	23	18826	4.274758	23	18876
18-77	4.273626	23	18827	4.274781	23	18877
18-78	4.273649	23	18828	4.274804	23	18878
18-79	4.273672	24	18829	4.274827	23	18879
18-80	4.273696	23	18830	4.274850	23	18880
18-81	4.273719	23	18831	4.274873	23	18881
18-82	4.273742	23	18832	4.274896	23	18882
18-83	4.273765	23	18833	4.274920	24	18883
18-84	4.273788	23	18834	4.274943	23	18884
18-85	4.273811	23	18835	4.274966	23	18885
18-86	4.273834	23	18836	4.274989	23	18886
18-87	4.273857	24	18837	4.275012	23	18887
18-88	4.273881	23	18838	4.275035	23	18888
18-89	4.273904	23	18839	4.275058	23	18889

Nomb.	4. 20' 0"	D.	Nomb.	4. 20' 50"	D.	Nomb.	4. 21' 40"	D.
	Logarithh.			Logarithh.			Logarithh.	
15600	4.193125		15650	4.194514	28	15700	4.195900	
15601	4.193152	27	15651	4.194542	28	15701	4.195927	27
15602	4.193180	28	15652	4.194570	28	15702	4.195955	28
15603	4.193208	28	15653	4.194598	28	15703	4.195983	28
15604	4.193236	28	15654	4.194625	27	15704	4.196010	27
15605	4.193264	28	15655	4.194653	28	15705	4.196038	28
15606	4.193292	28	15656	4.194681	88	15706	4.196066	28
15607	4.193319	27	15657	4.194709	28	15707	4.196093	27
15608	4.193347	28	15658	4.194736	27	15708	4.196121	28
15609	4.193375	28	15659	4.194764	28	15709	4.196148	27
15610	4.193403	28	15660	4.194792	28	15710	4.196176	28
15611	4.193431	28	15661	4.194819	27	15711	4.196204	28
15612	4.193458	27	15662	4.194847	28	15712	4.196231	27
15613	4.193486	28	15663	4.194875	28	15713	4.196259	28
15614	4.193514	28	15664	4.194903	28	15714	4.196287	28
15615	4.193542	28	15665	4.194930	27	15715	4.196314	27
15616	4.193570	28	15666	4.194958	28	15716	4.196342	28
15617	4.193598	28	15667	4.194986	28	15717	4.196370	28
15618	4.193625	27	15668	4.195013	27	15718	4.196397	27
15619	4.193653	28	15669	4.195041	28	15719	4.196425	28
15620	4.193681	28	15670	4.195069	28	15720	4.196452	27
15621	4.193709	28	15671	4.195097	28	15721	4.196480	28
15622	4.193737	28	15672	4.195124	27	15722	4.196508	28
15623	4.193764	27	15673	4.195152	28	15723	4.196535	27
15624	4.193792	28	15674	4.195180	28	15724	4.196563	28
15625	4.193820	28	15675	4.195207	27	15725	4.196591	28
15626	4.193848	28	15676	4.195235	28	15726	4.196618	27
15627	4.193876	28	15677	4.195263	28	15727	4.196646	28
15628	4.193903	27	15678	4.195291	27	15728	4.196673	27
15629	4.193931	28	15679	4.195318	28	15729	4.196701	28
15630	4.193959	28	15680	4.195346	28	15730	4.196729	28
15631	4.193987	28	15681	4.195374	28	15731	4.196756	27
15632	4.194014	27	15682	4.195401	27	15732	4.196784	28
15633	4.194042	28	15683	4.195429	28	15733	4.196811	27
15634	4.194070	28	15684	4.195457	28	15734	4.196839	28
15635	4.194098	28	15685	4.195484	27	15735	4.196867	28
15636	4.194126	28	15686	4.195512	28	15736	4.196894	27
15637	4.194153	27	15687	4.195540	28	15737	4.196922	28
15638	4.194181	28	15688	4.195568	28	15738	4.196949	27
15639	4.194209	28	15689	4.195595	27	15739	4.196977	28
15640	4.194237	28	15690	4.195623	28	15740	4.197005	28
15641	4.194264	27	15691	4.195651	28	15741	4.197032	27
15642	4.194292	28	15692	4.195678	27	15742	4.197060	28
15643	4.194320	28	15693	4.195706	28	15743	4.197088	27
15644	4.194348	28	15694	4.195734	28	15744	4.197115	28
15645	4.194376	28	15695	4.195761	27	15745	4.197143	28
15646	4.194403	27	15696	4.195789	28	15746	4.197170	27
15647	4.194431	28	15697	4.195817	28	15747	4.197198	28
15648	4.194459	28	15698	4.195844	27	15748	4.197225	27
15649	4.194487	28	15699	4.195872	28	15749	4.197253	28
15650	4.194514	27	15700	4.195900	28	15750	4.197281	28

Nomb.	5. 1' 30" Logarith.	D.	Nomb.	5. 18' 20" Logarith.	D.	Nomb.	5. 19' 10" Logarith.	D.
19050	4.279895		19100	4.281033		19150	4.282169	
19051	4.279918	23	19101	4.281056	23	19151	4.282191	22
19052	4.279941	23	19102	4.281079	23	19152	4.282214	23
19053	4.279965	22	19103	4.281102	23	19153	4.282237	23
19054	4.279986	23	19104	4.281124	22	19154	4.282259	23
19055	4.280009	23	19105	4.281147	23	19155	4.282282	23
19056	4.280032	23	19106	4.281170	23	19156	4.282305	23
19057	4.280055	23	19107	4.281192	22	19157	4.282327	22
19058	4.280077	22	19108	4.281215	23	19158	4.282350	23
19059	4.280100	23	19109	4.281238	23	19159	4.282373	23
19060	4.280123	23	19110	4.281261	23	19160	4.282396	23
19061	4.280146	23	19111	4.281283	22	19161	4.282418	23
19062	4.280168	22	19112	4.281306	23	19162	4.282441	23
19063	4.280191	23	19113	4.281329	23	19163	4.282463	22
19064	4.280214	23	19114	4.281352	23	19164	4.282486	23
19065	4.280237	23	19115	4.281374	22	19165	4.282509	23
19066	4.280260	23	19116	4.281397	23	19166	4.282531	22
19067	4.280282	22	19117	4.281420	23	19167	4.282554	23
19068	4.280305	23	19118	4.281442	22	19168	4.282577	23
19069	4.280328	23	19119	4.281465	23	19169	4.282599	22
19070	4.280351	23	19120	4.281488	23	19170	4.282622	23
19071	4.280373	22	19121	4.281511	23	19171	4.282645	23
19072	4.280396	23	19122	4.281533	22	19172	4.282667	22
19073	4.280419	23	19123	4.281556	23	19173	4.282690	23
19074	4.280442	23	19124	4.281579	23	19174	4.282713	23
19075	4.280465	23	19125	4.281601	22	19175	4.282735	22
19076	4.280487	22	19126	4.281624	23	19176	4.282758	23
19077	4.280510	23	19127	4.281647	23	19177	4.282781	23
19078	4.280533	23	19128	4.281670	23	19178	4.282803	22
19079	4.280556	23	19129	4.281692	22	19179	4.282826	23
19080	4.280578	22	19130	4.281715	23	19180	4.282849	23
19081	4.280601	23	19131	4.281738	22	19181	4.282871	22
19082	4.280624	23	19132	4.281760	23	19182	4.282894	23
19083	4.280647	23	19133	4.281783	23	19183	4.282917	23
19084	4.280669	22	19134	4.281806	23	19184	4.282939	22
19085	4.280692	23	19135	4.281828	22	19185	4.282962	23
19086	4.280715	23	19136	4.281851	23	19186	4.282984	22
19087	4.280738	23	19137	4.281874	23	19187	4.283007	23
19088	4.280760	22	19138	4.281897	23	19188	4.283030	23
19089	4.280783	23	19139	4.281919	22	19189	4.283052	22
19090	4.280806	23	19140	4.281942	23	19190	4.283075	23
19091	4.280829	23	19141	4.281965	23	19191	4.283098	22
19092	4.280851	22	19142	4.281987	22	19192	4.283120	22
19093	4.280874	23	19143	4.282010	23	19193	4.283143	23
19094	4.280897	23	19144	4.282033	23	19194	4.283165	22
19095	4.280920	23	19145	4.282055	22	19195	4.283188	23
19096	4.280942	22	19146	4.282078	23	19196	4.283211	23
19097	4.280965	23	19147	4.282101	22	19197	4.283233	22
19098	4.280988	23	19148	4.282123	22	19198	4.283256	23
19099	4.281011	23	19149	4.282146	23	19199	4.283279	23
19100	4.281033	22	19150	4.282169	23	19200	4.283301	22

Nomb.	5. 20' 0"	D.	Nomb.	5. 20' 50"	D.	Nomb.	5. 21' 40"	D.
	Logarith.			Logarith.			Logarith.	
19200	4.283301	23	19250	4.284431	22	19300	4.285557	23
19201	4.283324	22	19251	4.284453	23	19301	4.285580	22
19202	4.283346	23	19252	4.284476	22	19302	4.285602	23
19203	4.283369	23	19253	4.284498	23	19303	4.285625	22
19204	4.283392	22	19254	4.284521	23	19304	4.285647	23
19205	4.283414	23	19255	4.284544	22	19305	4.285670	22
19206	4.283437	23	19256	4.284566	23	19306	4.285692	23
19207	4.283460	22	19257	4.284589	22	19307	4.285715	22
19208	4.283482	23	19258	4.284611	23	19308	4.285737	22
19209	4.283505	22	19259	4.284634	22	19309	4.285760	23
19210	4.283527	23	19260	4.284656	23	19310	4.285782	22
19211	4.283550	23	19261	4.284679	22	19311	4.285805	23
19212	4.283573	22	19262	4.284701	23	19312	4.285827	22
19213	4.283595	23	19263	4.284724	22	19313	4.285850	23
19214	4.283618	22	19264	4.284746	23	19314	4.285872	22
19215	4.283640	23	19265	4.284769	22	19315	4.285895	23
19216	4.283663	23	19266	4.284792	23	19316	4.285917	22
19217	4.283686	22	19267	4.284814	22	19317	4.285940	23
19218	4.283708	23	19268	4.284837	22	19318	4.285962	22
19219	4.283731	22	19269	4.284859	23	19319	4.285985	23
19220	4.283753	23	19270	4.284882	22	19320	4.286007	22
19221	4.283776	23	19271	4.284904	23	19321	4.286030	23
19222	4.283799	22	19272	4.284927	22	19322	4.286052	22
19223	4.283821	23	19273	4.284949	23	19323	4.286075	23
19224	4.283844	22	19274	4.284972	22	19324	4.286097	22
19225	4.283866	23	19275	4.284994	23	19325	4.286119	23
19226	4.283889	22	19276	4.285017	22	19326	4.286142	22
19227	4.283912	23	19277	4.285039	23	19327	4.286164	23
19228	4.283934	22	19278	4.285062	22	19328	4.286187	22
19229	4.283957	23	19279	4.285085	23	19329	4.286209	23
19230	4.283979	22	19280	4.285107	22	19330	4.286232	22
19231	4.284002	23	19281	4.285130	23	19331	4.286254	23
19232	4.284024	22	19282	4.285152	22	19332	4.286277	22
19233	4.284047	23	19283	4.285175	23	19333	4.286299	23
19234	4.284070	22	19284	4.285197	22	19334	4.286322	22
19235	4.284092	23	19285	4.285220	23	19335	4.286344	23
19236	4.284115	22	19286	4.285242	22	19336	4.286367	22
19237	4.284137	23	19287	4.285265	23	19337	4.286389	23
19238	4.284160	22	19288	4.285287	22	19338	4.286412	22
19239	4.284182	23	19289	4.285310	23	19339	4.286434	23
19240	4.284205	22	19290	4.285332	22	19340	4.286456	22
19241	4.284228	23	19291	4.285355	23	19341	4.286479	23
19242	4.284250	22	19292	4.285377	22	19342	4.286501	22
19243	4.284273	23	19293	4.285400	23	19343	4.286524	23
19244	4.284295	22	19294	4.285422	22	19344	4.286546	22
19245	4.284318	23	19295	4.285445	23	19345	4.286569	23
19246	4.284340	22	19296	4.285467	22	19346	4.286591	22
19247	4.284363	23	19297	4.285490	23	19347	4.286614	23
19248	4.284386	22	19298	4.285512	22	19348	4.286636	22
19249	4.284408	23	19299	4.285535	23	19349	4.286658	22
19250	4.284431	22	19300	4.285557	22	19350	4.286681	23

Nomb.	5. 22' 30" Logarith.	D.	Nomb.	5. 23' 20" Logarith.	D.	Nomb.	5. 24' 10" Logarith.	D.
19350	4.286681		19400	4.287802		19450	4.288920	
19351	4.286703	22	19401	4.287824	22	19451	4.288942	22
19352	4.286726	23	19402	4.287846	22	19452	4.288964	22
19353	4.286748	22	19403	4.287869	23	19453	4.288987	23
19354	4.286771	23	19404	4.287891	22	19454	4.289009	22
19355	4.286793	22	19405	4.287914	23	19455	4.289031	22
19356	4.286816	23	19406	4.287936	22	19456	4.289054	23
19357	4.286838	22	19407	4.287958	22	19457	4.289076	22
19358	4.286860	22	19408	4.287981	23	19458	4.289098	22
19359	4.286883	23	19409	4.288003	22	19459	4.289120	22
19360	4.286905	22	19410	4.288025	22	19460	4.289143	23
19361	4.286928	23	19411	4.288048	23	19461	4.289165	22
19362	4.286950	22	19412	4.288070	22	19462	4.289187	22
19363	4.286973	23	19413	4.288093	23	19463	4.289210	23
19364	4.286995	22	19414	4.288115	22	19464	4.289232	22
19365	4.287017	22	19415	4.288137	22	19465	4.289254	22
19366	4.287040	23	19416	4.288160	23	19466	4.289277	23
19367	4.287062	22	19417	4.288182	22	19467	4.289299	22
19368	4.287085	23	19418	4.288204	22	19468	4.289321	22
19369	4.287107	22	19419	4.288227	23	19469	4.289344	23
19370	4.287130	23	19420	4.288249	22	19470	4.289366	22
19371	4.287152	22	19421	4.288272	23	19471	4.289388	22
19372	4.287174	22	19422	4.288294	22	19472	4.289411	23
19373	4.287197	23	19423	4.288316	22	19473	4.289433	22
19374	4.287219	22	19424	4.288339	23	19474	4.289455	22
19375	4.287242	23	19425	4.288361	22	19475	4.289477	22
19376	4.287264	22	19426	4.288383	23	19476	4.289500	23
19377	4.287287	23	19427	4.288406	22	19477	4.289522	22
19378	4.287309	22	19428	4.288428	22	19478	4.289544	22
19379	4.287331	22	19429	4.288450	22	19479	4.289567	23
19380	4.287354	23	19430	4.288473	23	19480	4.289589	22
19381	4.287376	22	19431	4.288495	22	19481	4.289611	22
19382	4.287399	23	19432	4.288517	22	19482	4.289633	22
19383	4.287421	22	19433	4.288540	23	19483	4.289656	23
19384	4.287443	22	19434	4.288562	22	19484	4.289678	22
19385	4.287466	23	19435	4.288584	22	19485	4.289700	22
19386	4.287488	22	19436	4.288607	23	19486	4.289723	23
19387	4.287511	23	19437	4.288629	22	19487	4.289745	22
19388	4.287533	22	19438	4.288652	23	19488	4.289767	22
19389	4.287555	22	19439	4.288674	22	19489	4.289790	23
19390	4.287578	23	19440	4.288696	22	19490	4.289812	22
19391	4.287600	22	19441	4.288719	23	19491	4.289834	22
19392	4.287623	23	19442	4.288741	22	19492	4.289856	22
19393	4.287645	22	19443	4.288763	22	19493	4.289879	23
19394	4.287667	22	19444	4.288786	23	19494	4.289901	22
19395	4.287690	23	19445	4.288808	22	19495	4.289923	22
19396	4.287712	22	19446	4.288830	22	19496	4.289945	23
19397	4.287735	23	19447	4.288853	23	19497	4.289967	22
19398	4.287757	22	19448	4.288875	22	19498	4.289989	22
19399	4.287779	22	19449	4.288897	22	19499	4.290011	22
19400	4.287802	23	19450	4.288920	23	19500	4.290033	22

Nomb.	5. 25' 0"	D.	Nomb.	5. 25' 50"	D.	Nomb.	5. 26' 40"	D.
	Logarith.			Logarith.			Logarith.	
19500	4.290035		19550	4.291147		19600	4.292256	
19501	4.290057	22	19551	4.291169	22	19601	4.292278	22
19502	4.290079	22	19552	4.291191	22	19602	4.292300	22
19503	4.290101	22	19553	4.291213	22	19603	4.292322	22
19504	4.290124	23	19554	4.291236	23	19604	4.292345	23
19505	4.290146	22	19555	4.291258	22	19605	4.292367	22
19506	4.290168	22	19556	4.291280	22	19606	4.292389	22
19507	4.290190	22	19557	4.291302	22	19607	4.292411	22
19508	4.290213	23	19558	4.291324	22	19608	4.292433	22
19509	4.290235	22	19559	4.291347	23	19609	4.292455	22
19510	4.290257	22	19560	4.291369	22	19610	4.292478	23
19511	4.290279	23	19561	4.291391	22	19611	4.292500	22
19512	4.290302	22	19562	4.291413	22	19612	4.292522	22
19513	4.290324	22	19563	4.291435	22	19613	4.292544	22
19514	4.290346	23	19564	4.291458	23	19614	4.292566	22
19515	4.290369	22	19565	4.291480	22	19615	4.292588	22
19516	4.290391	22	19566	4.291502	22	19616	4.292610	22
19517	4.290413	22	19567	4.291524	22	19617	4.292633	23
19518	4.290435	22	19568	4.291546	22	19618	4.292655	22
19519	4.290458	23	19569	4.291569	23	19619	4.292677	22
19520	4.290480	22	19570	4.291591	22	19620	4.292699	22
19521	4.290502	22	19571	4.291613	22	19621	4.292721	22
19522	4.290524	23	19572	4.291635	22	19622	4.292743	22
19523	4.290547	22	19573	4.291657	22	19623	4.292765	22
19524	4.290569	22	19574	4.291680	23	19624	4.292787	22
19525	4.290591	22	19575	4.291702	22	19625	4.292810	23
19526	4.290613	22	19576	4.291724	22	19626	4.292832	22
19527	4.290635	23	19577	4.291746	22	19627	4.292854	22
19528	4.290658	22	19578	4.291768	22	19628	4.292876	22
19529	4.290680	22	19579	4.291790	23	19629	4.292898	22
19530	4.290702	22	19580	4.291813	22	19630	4.292920	22
19531	4.290724	23	19581	4.291835	22	19631	4.292942	22
19532	4.290747	22	19582	4.291857	22	19632	4.292964	22
19533	4.290769	22	19583	4.291879	22	19633	4.292987	23
19534	4.290791	22	19584	4.291901	23	19634	4.293009	22
19535	4.290813	23	19585	4.291924	22	19635	4.293031	22
19536	4.290836	22	19586	4.291946	22	19636	4.293053	22
19537	4.290858	22	19587	4.291968	22	19637	4.293075	22
19538	4.290880	22	19588	4.291990	22	19638	4.293097	22
19539	4.290902	23	19589	4.292012	22	19639	4.293119	22
19540	4.290925	22	19590	4.292034	23	19640	4.293141	23
19541	4.290947	22	19591	4.292057	22	19641	4.293164	22
19542	4.290969	22	19592	4.292079	22	19642	4.293186	22
19543	4.290991	22	19593	4.292101	22	19643	4.293208	22
19544	4.291013	23	19594	4.292123	22	19644	4.293230	22
19545	4.291036	22	19595	4.292145	22	19645	4.293252	22
19546	4.291058	22	19596	4.292167	23	19646	4.293274	22
19547	4.291080	22	19597	4.292190	22	19647	4.293296	22
19548	4.291102	22	19598	4.292212	22	19648	4.293318	22
19549	4.291124	23	19599	4.292234	22	19649	4.293340	23
19550	4.291147		19600	4.292256		19650	4.293363	

Nomb.	5. 27' 30"	D.	Nomb.	5. 28' 20"	D.	Wen
	Logarith.			Logarith.		
19650	4.293363	22	19700	4.294466	22	197
19651	4.293385	22	19701	4.294488	22	197
19652	4.293407	22	19702	4.294510	22	197
19653	4.293429	22	19703	4.294532	22	197
19654	4.293451	22	19704	4.294554	22	197
		22			22	
19655	4.293473	22	19705	4.294576	22	197
19656	4.293495	22	19706	4.294598	22	197
19657	4.293517	22	19707	4.294620	22	197
19658	4.293539	22	19708	4.294643	23	197
19659	4.293561	22	19709	4.294665	22	197
		22			22	
19660	4.293583	23	19710	4.294687	22	197
19661	4.293606	22	19711	4.294709	22	197
19662	4.293628	22	19712	4.294731	22	197
19663	4.293650	22	19713	4.294753	22	197
19664	4.293672	22	19714	4.294775	22	197
		22			22	
19665	4.293694	22	19715	4.294797	22	197
19666	4.293716	22	19716	4.294819	22	197
19667	4.293738	22	19717	4.294841	22	197
19668	4.293760	22	19718	4.294863	22	197
19669	4.293782	22	19719	4.294885	22	197
		22			22	
19670	4.293804	22	19720	4.294907	22	197
19671	4.293826	22	19721	4.294929	22	197
19672	4.293848	23	19722	4.294951	22	197
19673	4.293871	22	19723	4.294973	22	197
19674	4.293893	22	19724	4.294995	22	197
		22			22	
19675	4.293915	22	19725	4.295017	22	197
19676	4.293937	22	19726	4.295039	22	197
19677	4.293959	22	19727	4.295061	22	197
19678	4.293981	22	19728	4.295083	22	197
19679	4.294003	22	19729	4.295105	22	197
		22			22	
19680	4.294025	22	19730	4.295127	22	197
19681	4.294047	22	19731	4.295149	22	197
19682	4.294069	22	19732	4.295171	22	197
19683	4.294091	22	19733	4.295193	22	197
19684	4.294113	22	19734	4.295215	22	197
		22			22	
19685	4.294135	22	19735	4.295237	22	197
19686	4.294157	23	19736	4.295259	22	197
19687	4.294180	22	19737	4.295281	22	197
19688	4.294202	22	19738	4.295303	22	197
19689	4.294224	22	19739	4.295325	22	197
		22			22	

Nomb.	4. 35' 0"	D.	Nomb.	4. 35' 50"	D.	Nomb.	4. 36' 40"	D.
	Logarith.			Logarith.			Logarith.	
16500	4.217484	26	16550	4.218798	26	16600	4.220108	26
16501	4.217510	26	16551	4.218824	26	16601	4.220134	26
16502	4.217537	27	16552	4.218850	26	16602	4.220160	26
16503	4.217563	26	16553	4.218877	27	16603	4.220187	27
16504	4.217589	26	16554	4.218903	26	16604	4.220213	26
16505	4.217616	27	16555	4.218929	26	16605	4.220239	26
16506	4.217642	26	16556	4.218955	26	16606	4.220265	26
16507	4.217668	26	16557	4.218982	27	16607	4.220291	26
16508	4.217694	26	16558	4.219008	26	16608	4.220317	26
16509	4.217721	27	16559	4.219034	26	16609	4.220343	26
16510	4.217747	26	16560	4.219060	26	16610	4.220370	27
16511	4.217773	26	16561	4.219087	27	16611	4.220396	26
16512	4.217800	27	16562	4.219113	26	16612	4.220422	26
16513	4.217826	26	16563	4.219139	26	16613	4.220448	26
16514	4.217852	26	16564	4.219165	26	16614	4.220474	26
16515	4.217879	27	16565	4.219191	26	16615	4.220500	26
16516	4.217905	26	16566	4.219218	27	16616	4.220526	26
16517	4.217931	26	16567	4.219244	26	16617	4.220553	27
16518	4.217957	26	16568	4.219270	26	16618	4.220579	26
16519	4.217984	27	16569	4.219296	26	16619	4.220605	26
16520	4.218010	26	16570	4.219323	27	16620	4.220631	26
16521	4.218036	26	16571	4.219349	26	16621	4.220657	26
16522	4.218063	27	16572	4.219375	26	16622	4.220683	26
16523	4.218089	26	16573	4.219401	26	16623	4.220709	26
16524	4.218115	26	16574	4.219427	26	16624	4.220736	27
16525	4.218141	26	16575	4.219454	27	16625	4.220762	26
16526	4.218168	27	16576	4.219480	26	16626	4.220788	26
16527	4.218194	26	16577	4.219506	26	16627	4.220814	26
16528	4.218220	26	16578	4.219532	26	16628	4.220840	26
16529	4.218247	27	16579	4.219558	26	16629	4.220866	26
16530	4.218273	26	16580	4.219585	27	16630	4.220892	26
16531	4.218299	26	16581	4.219611	26	16631	4.220918	26
16532	4.218325	26	16582	4.219637	26	16632	4.220944	26
16533	4.218352	27	16583	4.219663	26	16633	4.220971	27
16534	4.218378	26	16584	4.219689	26	16634	4.220997	26
16535	4.218404	26	16585	4.219715	26	16635	4.221023	26
16536	4.218430	27	16586	4.219742	27	16636	4.221049	26
16537	4.218457	26	16587	4.219768	26	16637	4.221075	26
16538	4.218483	26	16588	4.219794	26	16638	4.221101	26
16539	4.218509	26	16589	4.219820	26	16639	4.221127	26
16540	4.218536	27	16590	4.219846	26	16640	4.221153	26
16541	4.218562	26	16591	4.219873	27	16641	4.221179	26
16542	4.218588	26	16592	4.219899	26	16642	4.221206	27
16543	4.218614	26	16593	4.219925	26	16643	4.221232	26
16544	4.218641	27	16594	4.219951	26	16644	4.221258	26
16545	4.218667	26	16595	4.219977	26	16645	4.221284	26
16546	4.218693	26	16596	4.220003	26	16646	4.221310	26
16547	4.218719	27	16597	4.220030	27	16647	4.221336	26
16548	4.218746	26	16598	4.220056	26	16648	4.221362	26
16549	4.218772	26	16599	4.220082	26	16649	4.221388	26
16550	4.218798	26	16600	4.220108	26	16650	4.221414	26

Nomb.	5. 32' 30"	D.	Nomb.	5. 33' 20"	D.	Nomb.	5. 34' 10"	D.
	Logarith.			Logarith.			Logarith.	
19950	4.299943	22	20000	4.301030	22	20050	4.302114	22
19951	4.299965	21	20001	4.301052	21	20051	4.302136	22
19952	4.299986	21	20002	4.301073	21	20052	4.302158	22
19953	4.300008	22	20003	4.301095	22	20053	4.302179	21
19954	4.300030	22	20004	4.301117	22	20054	4.302201	22
19955	4.300052	22	20005	4.301139	22	20055	4.302223	22
19956	4.300073	21	20006	4.301160	22	20056	4.302244	21
19957	4.300095	22	20007	4.301182	22	20057	4.302266	22
19958	4.300117	22	20008	4.301204	22	20058	4.302288	22
19959	4.300139	22	20009	4.301225	21	20059	4.302309	21
19960	4.300160	21	20010	4.301247	22	20060	4.302331	22
19961	4.300182	22	20011	4.301269	22	20061	4.302353	21
19962	4.300204	22	20012	4.301290	21	20062	4.302374	22
19963	4.300226	22	20013	4.301312	22	20063	4.302396	22
19964	4.300248	22	20014	4.301334	22	20064	4.302417	21
19965	4.300269	21	20015	4.301356	22	20065	4.302439	22
19966	4.300291	22	20016	4.301377	21	20066	4.302461	22
19967	4.300313	22	20017	4.301399	22	20067	4.302482	21
19968	4.300335	22	20018	4.301421	22	20068	4.302504	22
19969	4.300356	21	20019	4.301442	21	20069	4.302526	21
19970	4.300378	22	20020	4.301464	22	20070	4.302547	22
19971	4.300400	22	20021	4.301486	21	20071	4.302569	22
19972	4.300422	22	20022	4.301507	22	20072	4.302591	21
19973	4.300443	21	20023	4.301529	22	20073	4.302612	22
19974	4.300465	22	20024	4.301551	21	20074	4.302634	22
19975	4.300487	22	20025	4.301572	22	20075	4.302656	21
19976	4.300508	21	20026	4.301594	22	20076	4.302677	22
19977	4.300530	22	20027	4.301616	22	20077	4.302699	21
19978	4.300552	22	20028	4.301638	22	20078	4.302720	22
19979	4.300574	22	20029	4.301659	21	20079	4.302742	22
19980	4.300595	21	20030	4.301681	22	20080	4.302764	21
19981	4.300617	22	20031	4.301703	21	20081	4.302785	22
19982	4.300639	22	20032	4.301724	22	20082	4.302807	22
19983	4.300661	22	20033	4.301746	22	20083	4.302829	21
19984	4.300682	21	20034	4.301768	22	20084	4.302850	22
19985	4.300704	22	20035	4.301789	21	20085	4.302872	21
19986	4.300726	22	20036	4.301811	22	20086	4.302893	22
19987	4.300748	22	20037	4.301833	21	20087	4.302915	22
19988	4.300769	21	20038	4.301854	22	20088	4.302937	21
19989	4.300791	22	20039	4.301876	22	20089	4.302958	22
19990	4.300813	22	20040	4.301898	21	20090	4.302980	22
19991	4.300834	21	20041	4.301919	22	20091	4.303002	21
19992	4.300856	22	20042	4.301941	22	20092	4.303023	22
19993	4.300878	22	20043	4.301963	21	20093	4.303045	21
19994	4.300900	22	20044	4.301984	22	20094	4.303066	22
19995	4.300921	21	20045	4.302006	22	20095	4.303088	22
19996	4.300943	22	20046	4.302028	21	20096	4.303110	21
19997	4.300965	22	20047	4.302049	22	20097	4.303131	22
19998	4.300987	22	20048	4.302071	22	20098	4.303153	21
19999	4.301008	21	20049	4.302093	22	20099	4.303174	22
20000	4.301030	22	20050	4.302114	21	20100	4.303196	22

Nomb.	5. 35' 0"	D.	Nomb.	5. 35' 50"	D.	Nomb.	5. 36' 40"	D.
	Logarith.			Logarith.			Logarith.	
20100	4.303196	22	20150	4.304275	22	20200	4.305351	22
20101	4.303218	21	20151	4.304297	21	20201	4.305373	21
20102	4.303239	22	20152	4.304318	22	20202	4.305394	22
20103	4.303261	22	20153	4.304340	22	20203	4.305416	22
20104	4.303282	21	20154	4.304361	21	20204	4.305437	21
20105	4.303304	22	20155	4.304383	22	20205	4.305459	22
20106	4.303326	22	20156	4.304404	21	20206	4.305480	21
20107	4.303347	21	20157	4.304426	22	20207	4.305502	22
20108	4.303369	22	20158	4.304447	21	20208	4.305523	21
20109	4.303390	21	20159	4.304469	22	20209	4.305545	22
20110	4.303412	22	20160	4.304490	21	20210	4.305566	21
20111	4.303434	22	20151	4.304512	22	20211	4.305588	22
20112	4.303455	21	20162	4.304534	21	20212	4.305609	21
20113	4.303477	22	20163	4.304555	22	20213	4.305631	22
20114	4.303498	21	20164	4.304577	22	20214	4.305652	21
20115	4.303520	22	20165	4.304598	21	20215	4.305674	22
20116	4.303542	22	20166	4.304620	22	20216	4.305695	21
20117	4.303563	21	20167	4.304641	21	20217	4.305717	22
20118	4.303585	22	20168	4.304663	22	20218	4.305738	21
20119	4.303606	21	20169	4.304684	21	20219	4.305760	22
20120	4.303628	22	20170	4.304706	22	20220	4.305781	21
20121	4.303650	22	20171	4.304727	21	20221	4.305803	22
20122	4.303671	21	20172	4.304749	22	20222	4.305824	21
20123	4.303693	22	20173	4.304770	21	20223	4.305846	22
20124	4.303714	21	20174	4.304792	22	20224	4.305867	21
20125	4.303736	22	20175	4.304813	21	20225	4.305888	22
20126	4.303757	21	20176	4.304835	22	20226	4.305910	21
20127	4.303779	22	20177	4.304857	22	20227	4.305931	22
20128	4.303801	22	20178	4.304878	21	20228	4.305953	22
20129	4.303822	21	20179	4.304900	22	20229	4.305974	21
20130	4.303844	22	20180	4.304921	21	20230	4.305996	22
20131	4.303865	21	20181	4.304943	22	20231	4.306017	21
20132	4.303887	22	20182	4.304964	21	20232	4.306039	22
20133	4.303908	21	20183	4.304986	22	20233	4.306060	21
20134	4.303930	22	20184	4.305007	21	20234	4.306082	22
20135	4.303952	22	20185	4.305029	22	20235	4.306103	21
20136	4.303973	21	20186	4.305050	21	20236	4.306125	22
20137	4.303995	22	20187	4.305072	22	20237	4.306146	21
20138	4.304016	21	20188	4.305093	22	20238	4.306168	22
20139	4.304038	22	20189	4.305115	21	20239	4.306189	21
20140	4.304059	21	20190	4.305136	22	20240	4.306210	22
20141	4.304081	22	20191	4.305158	21	20241	4.306232	21
20142	4.304103	22	20192	4.305179	22	20242	4.306253	22
20143	4.304124	21	20193	4.305201	22	20243	4.306275	21
20144	4.304146	22	20194	4.305222	21	20244	4.306296	22
20145	4.304167	21	20195	4.305244	22	20245	4.306318	21
20146	4.304189	22	20196	4.305265	21	20246	4.306339	22
20147	4.304210	21	20197	4.305287	22	20247	4.306361	21
20148	4.304232	22	20198	4.305308	21	20248	4.306382	22
20149	4.304253	21	20199	4.305330	22	20249	4.306404	21
20150	4.304275	22	20200	4.305351	21	20250	4.306425	22

Nomb.	5. 37' 30"	D.	Nomb.	5. 38' 20"	D.	Nomb.
	Logarith.			Logarith.		
20250	4.306425		20300	4.307496		203
20251	4.306446	21	20301	4.307517	21	203
20252	4.306468	22	20302	4.307539	22	203
20253	4.306489	21	20303	4.307560	21	203
20254	4.306511	22	20304	4.307582	22	203
20255	4.306532	21	20305	4.307603	21	203
20256	4.306554	22	20306	4.307624	21	203
20257	4.306575	21	20307	4.307646	22	203
20258	4.306597	22	20308	4.307667	21	203
20259	4.306618	21	20309	4.307688	21	203
20260	4.306639	21	20310	4.307710	22	203
20261	4.306661	22	20311	4.307731	21	203
20262	4.306682	21	20312	4.307753	22	203
20263	4.306704	22	20313	4.307774	21	203
20264	4.306725	21	20314	4.307795	21	203
20265	4.306747	22	20315	4.307817	22	203
20266	4.306768	21	20316	4.307838	21	203
20267	4.306789	21	20317	4.307860	22	203
20268	4.306811	22	20318	4.307881	21	203
20269	4.306832	21	20319	4.307902	21	203
20270	4.306854	22	20320	4.307924	22	203
20271	4.306875	21	20321	4.307945	21	203
20272	4.306897	22	20322	4.307966	21	203
20273	4.306918	21	20323	4.307988	22	203
20274	4.306939	21	20324	4.308009	21	203
20275	4.306961	22	20325	4.308031	22	203
20276	4.306982	21	20326	4.308052	21	203
20277	4.307004	22	20327	4.308073	21	203
20278	4.307025	21	20328	4.308095	22	203
20279	4.307046	21	20329	4.308116	21	203
20280	4.307068	22	20330	4.308137	21	203
20281	4.307089	21	20331	4.308159	22	203
20282	4.307111	22	20332	4.308180	21	203
20283	4.307132	21	20333	4.308201	21	203
20284	4.307154	22	20334	4.308223	22	203
20285	4.307175	21	20335	4.308244	21	203
20286	4.307196	21	20336	4.308265	21	203
20287	4.307218	22	20337	4.308287	22	203
20288	4.307239	21	20338	4.308308	21	203
20289	4.307261	22	20339	4.308330	22	203
20290	4.307282	21	20340	4.308351	21	203
20291	4.307303	21	20341	4.308372	21	203
20292	4.307325	22	20342	4.308394	22	203
20293	4.307346	21	20343	4.308415	21	203
20294	4.307368	22	20344	4.308436	21	203
20295	4.307389	21	20345	4.308458	22	203
20296	4.307410	21	20346	4.308479	21	203
20297	4.307432	22	20347	4.308500	21	203
20298	4.307453	21	20348	4.308522	22	203
20299	4.307475	22	20349	4.308543	21	203
20300	4.307496	21	20350	4.308564	21	204

Nomb.	5. 40' 0"	D.	Nomb.	5. 40' 50"	D.	Nomb.	5. 41' 40"	D.
	Logarith.			Logarith.			Logarith.	
20400	4.309630	21	20450	4.310693	21	20500	4.311754	21
20401	4.309651	21	20451	4.310714	21	20501	4.311775	21
20402	4.309673	22	20452	4.310736	22	20502	4.311796	21
20403	4.309694	21	20453	4.310757	21	20503	4.311817	21
20404	4.309715	21	20454	4.310778	21	20504	4.311839	22
20405	4.309737	22	20455	4.310799	21	20505	4.311860	21
20406	4.309758	21	20456	4.310821	22	20506	4.311881	21
20407	4.309779	21	20457	4.310842	21	20507	4.311902	21
20408	4.309800	21	20458	4.310863	21	20508	4.311923	21
20409	4.309822	22	20459	4.310884	21	20509	4.311944	21
20410	4.309843	21	20460	4.310906	22	20510	4.311966	22
20411	4.309864	21	20461	4.310927	21	20511	4.311987	21
20412	4.309886	22	20462	4.310948	21	20512	4.312008	21
20413	4.309907	21	20463	4.310969	21	20513	4.312029	21
20414	4.309928	21	20464	4.310990	21	20514	4.312050	21
20415	4.309949	21	20465	4.311012	22	20515	4.312071	21
20416	4.309971	22	20466	4.311033	21	20516	4.312093	22
20417	4.309992	21	20467	4.311054	21	20517	4.312114	21
20418	4.310013	21	20468	4.311075	21	20518	4.312135	21
20419	4.310034	21	20469	4.311097	22	20519	4.312156	21
20420	4.310056	22	20470	4.311118	21	20520	4.312177	21
20421	4.310077	21	20471	4.311139	21	20521	4.312198	21
20422	4.310098	21	20472	4.311160	21	20522	4.312220	22
20423	4.310119	21	20473	4.311181	21	20523	4.312241	21
20424	4.310141	22	20474	4.311203	22	20524	4.312262	21
20425	4.310162	21	20475	4.311224	21	20525	4.312283	21
20426	4.310183	21	20476	4.311245	21	20526	4.312304	21
20427	4.310205	22	20477	4.311266	21	20527	4.312325	21
20428	4.310226	22	20478	4.311287	21	20528	4.312347	22
20429	4.310247	21	20479	4.311309	22	20529	4.312368	21
20430	4.310268	21	20480	4.311330	21	20530	4.312389	21
20431	4.310290	22	20481	4.311351	21	20531	4.312410	21
20432	4.310311	21	20482	4.311372	21	20532	4.312431	21
20433	4.310332	21	20483	4.311394	22	20533	4.312452	21
20434	4.310353	21	20484	4.311415	21	20534	4.312474	22
20435	4.310375	22	20485	4.311436	21	20535	4.312495	21
20436	4.310396	21	20486	4.311457	21	20536	4.312516	21
20437	4.310417	21	20487	4.311478	21	20537	4.312537	21
20438	4.310438	21	20488	4.311500	22	20538	4.312558	21
20439	4.310460	22	20489	4.311521	21	20539	4.312579	21
20440	4.310481	21	20490	4.311542	21	20540	4.312600	21
20441	4.310502	21	20491	4.311563	21	20541	4.312622	22
20442	4.310523	21	20492	4.311584	21	20542	4.312643	21
20443	4.310545	22	20493	4.311605	21	20543	4.312664	21
20444	4.310566	21	20494	4.311627	22	20544	4.312685	21
20445	4.310587	21	20495	4.311648	21	20545	4.312706	21
20446	4.310608	21	20496	4.311669	21	20546	4.312727	21
20447	4.310630	22	20497	4.311690	21	20547	4.312748	22
20448	4.310651	21	20498	4.311711	21	20548	4.312770	21
20449	4.310672	21	20499	4.311733	22	20549	4.312791	21
20450	4.310693	21	20500	4.311754	21	20550	4.312812	21

Nomb.	5. 42' 30"	D.	Nomb.	5. 43' 20"	D.	Nomb.	5.
	Logarith.			Logarith.			L
20550	4.312812		20600	4.313867		20650	4.
20551	4.312833	21	20601	4.313888	21	20651	4.
20552	4.312854	21	20602	4.313909	21	20652	4.
20553	4.312875	21	20603	4.313930	21	20653	4.
20554	4.312896	21	20604	4.313951	21	20654	4.
20555	4.312917	21	20605	4.313973	22	20655	4.
20556	4.312939	22	20606	4.313994	21	20656	4.
20557	4.312960	21	20607	4.314015	21	20657	4.
20558	4.312981	21	20608	4.314036	21	20658	4.
20559	4.313002	21	20609	4.314057	21	20659	4.
20560	4.313023	21	20610	4.314078	21	20660	4.
20561	4.313044	21	20611	4.314099	21	20661	4.
20562	4.313065	21	20612	4.314120	21	20662	4.
20563	4.313086	21	20613	4.314141	21	20663	4.
20564	4.313108	22	20614	4.314162	21	20664	4.
20565	4.313129	21	20615	4.314183	21	20665	4.
20566	4.313150	21	20616	4.314204	21	20666	4.
20567	4.313171	21	20617	4.314225	21	20667	4.
20568	4.313192	21	20618	4.314246	21	20668	4.
20569	4.313213	21	20619	4.314268	22	20669	4.
20570	4.313234	21	20620	4.314289	21	20670	4.
20571	4.313255	21	20621	4.314310	21	20671	4.
20572	4.313276	21	20622	4.314331	21	20672	4.
20573	4.313298	22	20623	4.314352	21	20673	4.
20574	4.313319	21	20624	4.314373	21	20674	4.
20575	4.313340	21	20625	4.314394	21	20675	4.
20576	4.313361	21	20626	4.314415	21	20676	4.
20577	4.313382	21	20627	4.314436	21	20677	4.
20578	4.313403	21	20628	4.314457	21	20678	4.
20579	4.313424	21	20629	4.314478	21	20679	4.
20580	4.313445	21	20630	4.314499	21	20680	4.
20581	4.313466	21	20631	4.314520	21	20681	4.
20582	4.313488	22	20632	4.314541	21	20682	4.
20583	4.313509	21	20633	4.314562	21	20683	4.
20584	4.313530	21	20634	4.314583	21	20684	4.
20585	4.313551	21	20635	4.314604	21	20685	4.
20586	4.313572	21	20636	4.314625	22	20686	4.
20587	4.313593	21	20637	4.314647	21	20687	4.
20588	4.313614	21	20638	4.314668	21	20688	4.
20589	4.313635	21	20639	4.314689	21	20689	4.
20590	4.313656	21	20640	4.314710	21	20690	4.
20591	4.313677	21	20641	4.314731	21	20691	4.
20592	4.313698	22	20642	4.314752	21	20692	4.
20593	4.313720	21	20643	4.314773	21	20693	4.
20594	4.313741	21	20644	4.314794	21	20694	4.
20595	4.313762	21	20645	4.314815	21	20695	4.
20596	4.313783	21	20646	4.314836	21	20696	4.
20597	4.313804	21	20647	4.314857	21	20697	4.
20598	4.313825	21	20648	4.314878	21	20698	4.
20599	4.313846	21	20649	4.314899	21	20699	4.
20600	4.313867	21	20650	4.314920	21	20700	4.

Nomb.	5. 45' 0"	D.	Nomb.	5. 45' 50"	D.	Nomb.	5. 46' 40"	D.
	Logarith.			Logarith.			Logarith.	
20700	4.315970		20750	4.317018		20800	4.318063	
20701	4.315991	21	20751	4.317039	21	20801	4.318084	21
20702	4.316012	21	20752	4.317060	21	20802	4.318105	21
20703	4.316033	21	20753	4.317081	21	20803	4.318126	21
20704	4.316054	21	20754	4.317102	21	20804	4.318147	21
20705	4.316075	21	20755	4.317123	21	20805	4.318168	21
20706	4.316096	21	20756	4.317144	21	20806	4.318189	21
20707	4.316117	21	20757	4.317165	21	20807	4.318209	20
20708	4.316138	21	20758	4.317185	20	20808	4.318230	21
20709	4.316159	21	20759	4.317206	21	20809	4.318251	21
20710	4.316180	21	20760	4.317227	21	20810	4.318272	21
20711	4.316201	21	20761	4.317248	21	20811	4.318293	21
20712	4.316222	21	20762	4.317269	21	20812	4.318314	21
20713	4.316243	21	20763	4.317290	21	20813	4.318335	21
20714	4.316264	21	20764	4.317311	21	20814	4.318356	21
20715	4.316285	21	20765	4.317332	21	20815	4.318376	21
20716	4.316306	21	20766	4.317353	21	20816	4.318397	21
20717	4.316327	21	20767	4.317374	21	20817	4.318418	21
20718	4.316348	21	20768	4.317395	21	20818	4.318439	21
20719	4.316369	21	20769	4.317416	21	20819	4.318460	21
20720	4.316390	21	20770	4.317436	20	20820	4.318481	21
20721	4.316411	21	20771	4.317457	21	20821	4.318502	21
20722	4.316432	21	20772	4.317478	21	20822	4.318522	20
20723	4.316453	21	20773	4.317499	21	20823	4.318543	21
20724	4.316474	21	20774	4.317520	21	20824	4.318564	21
20725	4.316494	20	20775	4.317541	21	20825	4.318585	21
20726	4.316515	21	20776	4.317562	21	20826	4.318606	21
20727	4.316536	21	20777	4.317583	21	20827	4.318627	21
20728	4.316557	21	20778	4.317604	21	20828	4.318648	21
20729	4.316578	21	20779	4.317625	21	20829	4.318668	20
20730	4.316599	21	20780	4.317645	20	20830	4.318689	21
20731	4.316620	21	20781	4.317666	21	20831	4.318710	21
20732	4.316641	21	20782	4.317687	21	20832	4.318731	21
20733	4.316662	21	20783	4.317708	21	20833	4.318752	21
20734	4.316683	21	20784	4.317729	21	20834	4.318773	21
20735	4.316704	21	20785	4.317750	21	20835	4.318793	20
20736	4.316725	21	20786	4.317771	21	20836	4.318814	21
20737	4.316746	21	20787	4.317792	21	20837	4.318835	21
20738	4.316767	21	20788	4.317813	21	20838	4.318856	21
20739	4.316788	21	20789	4.317834	21	20839	4.318877	21
20740	4.316809	21	20790	4.317854	20	20840	4.318898	21
20741	4.316830	21	20791	4.317875	21	20841	4.318919	21
20742	4.316851	21	20792	4.317896	21	20842	4.318939	20
20743	4.316872	21	20793	4.317917	21	20843	4.318960	21
20744	4.316892	20	20794	4.317938	21	20844	4.318981	21
20745	4.316913	21	20795	4.317959	21	20845	4.319002	21
20746	4.316934	21	20796	4.317980	21	20846	4.319023	21
20747	4.316955	21	20797	4.318001	21	20847	4.319044	20
20748	4.316976	21	20798	4.318022	20	20848	4.319064	21
20749	4.316997	21	20799	4.318042	21	20849	4.319085	21
20750	4.317018		20800	4.318063		20850	4.319106	

Nomb	5. 47' 30"	D.	Nomb.	5. 48' 20"	D.	Nombs	5. .
	Logarithh.			Logarithh.			Le
20850	4.319106		20900	4.320146		20950	4.3
20851	4.319127	21	20901	4.320167	21	20951	4.3
20852	4.319148	21	20902	4.320188	21	20952	4.3
20853	4.319168	20	20903	4.320209	21	20953	4.3
20854	4.319189	21	20904	4.320229	20	20954	4.3
20855	4.319210	21	20905	4.320250	21	20955	4.3
20856	4.319231	21	20906	4.320271	21	20956	4.3
20857	4.319252	21	20907	4.320292	21	20957	4.3
20858	4.319273	21	20908	4.320312	20	20958	4.3
20859	4.319293	20	20909	4.320333	21	20959	4.3
20860	4.319314	21	20910	4.320354	21	20960	4.3
20861	4.319335	21	20911	4.320375	21	20961	4.3
20862	4.319356	21	20912	4.320396	21	20962	4.3
20863	4.319377	21	20913	4.320416	20	20963	4.3
20864	4.319398	21	20914	4.320437	21	20964	4.3
20865	4.319418	20	20915	4.320458	21	20965	4.3
20866	4.319439	21	20916	4.320479	21	20966	4.3
20867	4.319460	21	20917	4.320499	20	20967	4.3
20868	4.319481	21	20918	4.320520	21	20968	4.3
20869	4.319502	21	20919	4.320541	21	20969	4.3
20870	4.319522	20	20920	4.320562	21	20970	4.3
20871	4.319543	21	20921	4.320582	20	20971	4.3
20872	4.319564	21	20922	4.320603	21	20972	4.3
20873	4.319585	21	20923	4.320624	21	20973	4.3
20874	4.319606	21	20924	4.320645	21	20974	4.3
20875	4.319626	20	20925	4.320665	20	20975	4.3
20876	4.319647	21	20926	4.320686	21	20976	4.3
20877	4.319668	21	20927	4.320707	21	20977	4.3
20878	4.319689	21	20928	4.320728	21	20978	4.3
20879	4.319710	21	20929	4.320748	20	20979	4.3
20880	4.319730	20	20930	4.320769	21	20980	4.3
20881	4.319751	21	20931	4.320790	21	20981	4.3
20882	4.319772	21	20932	4.320811	21	20982	4.3
20883	4.319793	21	20933	4.320831	20	20983	4.3
20884	4.319814	21	20934	4.320852	21	20984	4.3
20885	4.319834	20	20935	4.320873	21	20985	4.3
20886	4.319855	21	20936	4.320894	21	20986	4.3
20887	4.319876	21	20937	4.320914	20	20987	4.3
20888	4.319897	21	20938	4.320935	21	20988	4.3
20889	4.319918	21	20939	4.320956	21	20989	4.3
20890	4.319938	20	20940	4.320977	21	20990	4.3
20891	4.319959	21	20941	4.320997	20	20991	4.3
20892	4.319980	21	20942	4.321018	21	20992	4.3
20893	4.320001	21	20943	4.321039	21	20993	4.3
20894	4.320022	21	20944	4.321060	21	20994	4.3
20895	4.320042	20	20945	4.321080	20	20995	4.3
20896	4.320063	21	20946	4.321101	21	20996	4.3
20897	4.320084	21	20947	4.321122	21	20997	4.3
20898	4.320105	21	20948	4.321143	21	20998	4.3
20899	4.320125	20	20949	4.321163	20	20999	4.3
20900	4.320146	21	20950	4.321184	21	21000	4.3

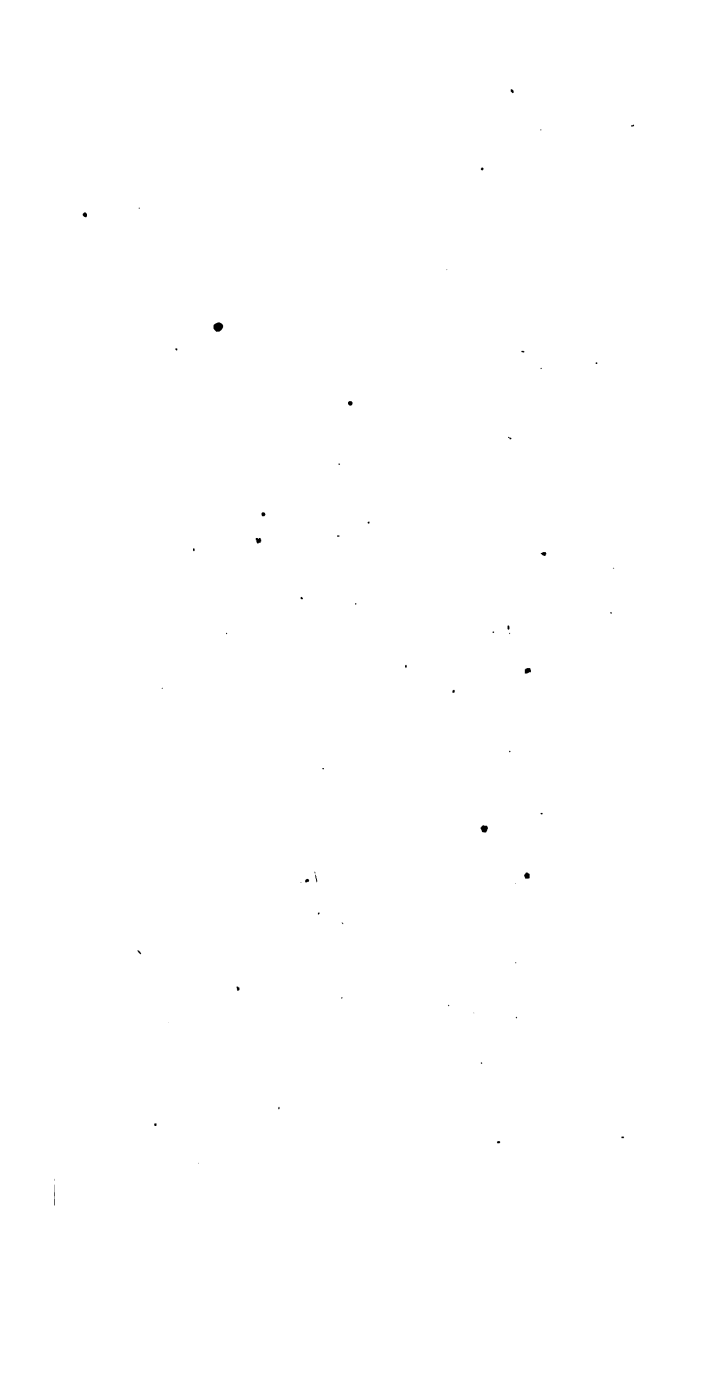
Nomb.	5. 50' 50"	D.	Nomb.	5. 51' 40"	D.
	Logarith.			Logarith.	
21050	4.323252		21100	4.324282	
21051	4.323273	21	21101	4.324303	21
21052	4.323293	20	21102	4.324324	21
21053	4.323314	21	21103	4.324344	20
21054	4.323335	21	21104	4.324365	21
21055	4.323355	20	21105	4.324385	20
21056	4.323376	21	21106	4.324406	21
21057	4.323396	20	21107	4.324426	20
21058	4.323417	21	21108	4.324447	21
21059	4.323438	21	21109	4.324468	21
21060	4.323458	20	21110	4.324488	20
21061	4.323479	21	21111	4.324509	21
21062	4.323500	21	21112	4.324529	20
21063	4.323520	20	21113	4.324550	21
21064	4.323541	21	21114	4.324570	20
21065	4.323561	20	21115	4.324591	21
21066	4.323582	21	21116	4.324612	21
21067	4.323603	21	21117	4.324632	20
21068	4.323623	20	21118	4.324653	21
21069	4.323644	21	21119	4.324673	20
21070	4.323664	20	21120	4.324694	21
21071	4.323685	21	21121	4.324714	20
21072	4.323706	21	21122	4.324735	21
21073	4.323726	20	21123	4.324756	21
21074	4.323747	21	21124	4.324776	20
21075	4.323768	21	21125	4.324797	21
21076	4.323788	20	21126	4.324817	20
21077	4.323809	21	21127	4.324838	21
21078	4.323829	20	21128	4.324858	20
21079	4.323850	21	21129	4.324879	21
11080	4.323871	20	21130	4.324899	20
1081	4.323891	21	21131	4.324920	21
1082	4.323912	21	21132	4.324941	21
1083	4.323932	20	21133	4.324961	20
1084	4.323953	21	21134	4.324982	21
085	4.323974	21	21135	4.325002	20
086	4.323994	20	21136	4.325023	21
087	4.324015	21	21137	4.325043	20
088	4.324035	20	21138	4.325064	21
089	4.324056	21	21139	4.325084	20
90	4.324077	21	21140	4.325105	21
91	4.324097	20	21141	4.325125	20
92	4.324118	21	21142	4.325146	21
93	4.324138	20	21143	4.325167	21
94	4.324159	21	21144	4.325187	20
95	4.324179	20	21145	4.325208	21
96	4.324200	21	21146	4.325228	20
97	4.324221	20	21147	4.325249	21
98	4.324241	21	21148	4.325269	20
99	4.324262	21	21149	4.325290	21
	4.324282	20	21150	4.325310	20

Nomb.	5. 52' 30"	D.	Nomb.	5. 53' 20"	D.	Nomb.	5.
	Logarith.			Logarith.			I
21150	4.325310		21200	4.326336		21250	4
21151	4.325331	21	21201	4.326356	20	21251	4
21152	4.325351	20	21202	4.326377	21	21252	4
21153	4.325372	21	21203	4.326397	20	21253	4
21154	4.325392	20	21204	4.326418	21	21254	4
21155	4.325413	21	21205	4.326438	20	21255	4
21156	4.325434	21	21206	4.326459	21	21256	4
21157	4.325454	20	21207	4.326479	20	21257	4
21158	4.325475	21	21208	4.326500	21	21258	4
21159	4.325495	20	21209	4.326520	20	21259	4
21160	4.325516	21	21210	4.326541	21	21260	4
21161	4.325536	20	21211	4.326561	20	21261	4
21162	4.325557	21	21212	4.326582	21	21262	4
21163	4.325577	20	21213	4.326602	20	21263	4
21164	4.325598	21	21214	4.326623	21	21264	4
21165	4.325618	20	21215	4.326643	20	21265	4
21166	4.325639	21	21216	4.326663	20	21266	4
21167	4.325659	20	21217	4.326684	21	21267	4
21168	4.325680	21	21218	4.326704	20	21268	4
21169	4.325700	20	21219	4.326725	21	21269	4
21170	4.325721	21	21220	4.326745	20	21270	4
21171	4.325741	20	21221	4.326766	21	21271	4
21172	4.325762	21	21222	4.326786	20	21272	4
21173	4.325782	20	21223	4.326807	21	21273	4
21174	4.325803	21	21224	4.326827	20	21274	4
21175	4.325823	20	21225	4.326848	21	21275	4
21176	4.325844	21	21226	4.326868	20	21276	4
21177	4.325864	20	21227	4.326889	21	21277	4
21178	4.325885	21	21228	4.326909	20	21278	4
21179	4.325905	20	21229	4.326929	20	21279	4
21180	4.325926	21	21230	4.326950	21	21280	4
21181	4.325946	20	21231	4.326970	20	21281	4
21182	4.325967	21	21232	4.326991	21	21282	4
21183	4.325987	20	21233	4.327011	20	21283	4
21184	4.326008	21	21234	4.327032	21	21284	4
21185	4.326028	20	21235	4.327052	20	21285	4
21186	4.326049	21	21236	4.327073	21	21286	4
21187	4.326069	20	21237	4.327093	20	21287	4
21188	4.326090	21	21238	4.327114	21	21288	4
21189	4.326110	20	21239	4.327134	20	21289	4
21190	4.326131	21	21240	4.327155	21	21290	4
21191	4.326151	20	21241	4.327175	20	21291	4
21192	4.326172	21	21242	4.327195	20	21292	4
21193	4.326192	20	21243	4.327216	21	21293	4
21194	4.326213	21	21244	4.327236	20	21294	4
21195	4.326233	20	21245	4.327257	21	21295	4
21196	4.326254	21	21246	4.327277	20	21296	4
21197	4.326274	20	21247	4.327298	21	21297	4
21198	4.326295	21	21248	4.327318	20	21298	4
21199	4.326315	20	21249	4.327339	21	21299	4
21200	4.326336	21	21250	4.327359	20	21300	4

Numb.	5. 55' 0"	D.	Numb.	5. 55' 50"	D.	Numb.	5. 56' 40"	D.
	Logarith.			Logarith.			Logarith.	
21300	4.328380		21350	4.329398		21400	4.330414	
21301	4.328400	20	21351	4.329418	20	21401	4.330434	20
21302	4.328420	20	21352	4.329439	21	21402	4.330454	20
21303	4.328441	21	21353	4.329459	20	21403	4.330475	21
21304	4.328461	20	21354	4.329479	20	21404	4.330495	20
21305	4.328481	20	21355	4.329500	21	21405	4.330515	20
21306	4.328502	21	21356	4.329520	20	21406	4.330535	20
21307	4.328522	20	21357	4.329540	20	21407	4.330556	21
21308	4.328543	21	21358	4.329561	21	21408	4.330576	20
21309	4.328563	20	21359	4.329581	20	21409	4.330596	20
21310	4.328583	20	21360	4.329601	20	21410	4.330617	21
21311	4.328604	21	21361	4.329622	21	21411	4.330637	20
21312	4.328624	20	21362	4.329642	20	21412	4.330657	20
21313	4.328645	21	21363	4.329662	20	21413	4.330677	20
21314	4.328665	20	21364	4.329683	21	21414	4.330698	21
21315	4.328685	20	21365	4.329703	20	21415	4.330718	20
21316	4.328706	21	21366	4.329723	20	21416	4.330738	20
21317	4.328726	20	21367	4.329744	21	21417	4.330759	21
21318	4.328746	20	21368	4.329764	20	21418	4.330779	20
21319	4.328767	21	21369	4.329784	20	21419	4.330799	20
320	4.328787	20	21370	4.329804	20	21420	4.330819	20
321	4.328808	21	21371	4.329825	21	21421	4.330840	21
322	4.328828	20	21372	4.329845	20	21422	4.330860	20
323	4.328848	20	21373	4.329865	21	21423	4.330880	20
324	4.328869	21	21374	4.329886	21	21424	4.330901	21
325	4.328889	20	21375	4.329906	20	21425	4.330921	20
326	4.328909	20	21376	4.329926	20	21426	4.330941	20
327	4.328930	21	21377	4.329947	21	21427	4.330961	20
328	4.328950	20	21378	4.329967	20	21428	4.330982	21
329	4.328970	20	21379	4.329987	20	21429	4.331002	20
330	4.328991	21	21380	4.330008	21	21430	4.331022	20
331	4.329011	20	21381	4.330028	20	21431	4.331042	20
332	4.329032	21	21382	4.330048	20	21432	4.331063	21
333	4.329052	20	21383	4.330069	21	21433	4.331083	20
334	4.329072	20	21384	4.330089	20	21434	4.331103	20
335	4.329093	21	21385	4.330109	20	21435	4.331123	20
336	4.329113	20	21386	4.330130	21	21436	4.331144	21
337	4.329133	20	21387	4.330150	20	21437	4.331164	20
338	4.329154	21	21388	4.330170	20	21438	4.331184	20
339	4.329174	20	21389	4.330190	20	21439	4.331204	21
340	4.329194	20	21390	4.330211	21	21440	4.331225	20
341	4.329215	21	21391	4.330231	20	21441	4.331245	20
342	4.329235	20	21392	4.330251	20	21442	4.331265	20
343	4.329255	20	21393	4.330272	21	21443	4.331285	20
344	4.329276	21	21394	4.330292	20	21444	4.331306	21
345	4.329296	20	21395	4.330312	20	21445	4.331326	20
346	4.329316	20	21396	4.330333	21	21446	4.331346	20
347	4.329337	21	21397	4.330353	20	21447	4.331367	21
348	4.329357	20	21398	4.330373	20	21448	4.331387	20
349	4.329377	20	21399	4.330393	21	21449	4.331407	20
350	4.329398	21	21400	4.330414	21	21450	4.331427	20

21451	4.331447	20	21501	4.332459	21	21551	4
21452	4.331468	21	21502	4.332479	20	21552	4
21453	4.331488	20	21503	4.332499	20	21553	4
21454	4.331508	20	21504	4.332519	20	21554	4
21455	4.331528	20	21505	4.332539	20	21555	4
21456	4.331549	21	21506	4.332560	21	21556	4
21457	4.331569	20	21507	4.332580	20	21557	4
21458	4.331589	20	21508	4.332600	20	21558	4
21459	4.331609	20	21509	4.332620	20	21559	4
21460	4.331630	21	21510	4.332640	20	21560	4
21461	4.331650	20	21511	4.332661	21	21561	4
21462	4.331670	20	21512	4.332681	20	21562	4
21463	4.331690	20	21513	4.332701	20	21563	4
21464	4.331711	21	21514	4.332721	20	21564	4
21465	4.331731	20	21515	4.332741	20	21565	4
21466	4.331751	20	21516	4.332761	20	21566	4
21467	4.331771	20	21517	4.332782	21	21567	4
21468	4.331792	21	21518	4.332802	20	21568	4
21469	4.331812	20	21519	4.332822	20	21569	4
21470	4.331832	20	21520	4.332842	20	21570	4
21471	4.331852	20	21521	4.332862	20	21571	4
21472	4.331872	20	21522	4.332883	21	21572	4
21473	4.331893	21	21523	4.332903	20	21573	4
21474	4.331913	20	21524	4.332923	20	21574	4
21475	4.331933	20	21525	4.332943	20	21575	4
21476	4.331953	20	21526	4.332963	20	21576	4
21477	4.331974	21	21527	4.332983	20	21577	4
21478	4.331994	20	21528	4.333004	21	21578	4
21479	4.332014	20	21529	4.333024	20	21579	4
21480	4.332034	20	21530	4.333044	20	21580	4
21481	4.332054	20	21531	4.333064	20	21581	4
21482	4.332075	21	21532	4.333084	20	21582	4
21483	4.332095	20	21533	4.333104	20	21583	4
21484	4.332115	20	21534	4.333125	21	21584	4
21485	4.332135	20	21535	4.333145	20	21585	4
21486	4.332156	21	21536	4.333165	20	21586	4
21487	4.332176	20	21537	4.333185	20	21587	4
21488	4.332196	20	21538	4.333205	20	21588	4
21489	4.332216	20	21539	4.333225	20	21589	4
21490	4.332236	20	21540	4.333246	21	21590	4
21491	4.332257	21	21541	4.333266	20	21591	4
21492	4.332277	20	21542	4.333286	20	21592	4
21493	4.332297	20	21543	4.333306	20	21593	4
21494	4.332317	20	21544	4.333326	20	21594	4
21495	4.332337	20	21545	4.333347	21	21595	4
21496	4.332358	21	21546	4.333367	20	21596	4
21497	4.332378	20	21547	4.333387	20	21597	4
21498	4.332398	20	21548	4.333407	20	21598	4
21499	4.332418	20	21549	4.333427	20	21599	4
21500	4.332438	20	21550	4.333447	20	21600	4

Nomb.	5. 5' 0"	D.	Nomb.	5. 5' 50"	D.	Nomb.	5. 6' 40"	D.
	Logarith.			Logarith.			Logarith.	
18300	4.262451		18350	4.263636		18400	4.264818	
18301	4.262475	24	18351	4.263660	24	18401	4.264841	23
18302	4.262499	24	18352	4.263683	23	18402	4.264865	24
18303	4.262522	23	18353	4.263707	24	18403	4.264889	24
18304	4.262546	24	18354	4.263731	24	18404	4.264912	23
18305	4.262570	24	18355	4.263754	23	18405	4.264936	24
18306	4.262593	23	18356	4.263778	23	18406	4.264959	23
18307	4.262617	24	18357	4.263802	24	18407	4.264983	24
18308	4.262641	24	18358	4.263825	23	18408	4.265007	24
18309	4.262665	24	18359	4.263849	24	18409	4.265030	23
18310	4.262688	23	18360	4.263873	24	18410	4.265054	24
18311	4.262712	24	18361	4.263896	23	18411	4.265077	23
18312	4.262736	24	18362	4.263920	24	18412	4.265101	24
18313	4.262759	23	18363	4.263944	24	18413	4.265125	24
18314	4.262783	24	18364	4.263967	23	18414	4.265148	23
18315	4.262807	24	18365	4.263991	24	18415	4.265172	24
18316	4.262831	24	18366	4.264015	24	18416	4.265195	23
18317	4.262854	23	18367	4.264038	23	18417	4.265219	24
18318	4.262878	24	18368	4.264062	24	18418	4.265242	23
18319	4.262902	24	18369	4.264086	24	18419	4.265266	24
18320	4.262925	23	18370	4.264109	23	18420	4.265290	24
18321	4.262949	24	18371	4.264133	24	18421	4.265313	23
18322	4.262973	24	18372	4.264156	23	18422	4.265337	24
18323	4.262997	24	18373	4.264180	24	18423	4.265360	23
18324	4.263020	23	18374	4.264204	24	18424	4.265384	24
18325	4.263044	24	18375	4.264227	23	18425	4.265407	23
18326	4.263068	24	18376	4.264251	24	18426	4.265431	24
18327	4.263091	23	18377	4.264275	24	18427	4.265455	24
18328	4.263115	24	18378	4.264298	23	18428	4.265478	23
18329	4.263139	24	18379	4.264322	24	18429	4.265502	24
18330	4.263162	23	18380	4.264345	23	18430	4.265525	24
18331	4.263186	24	18381	4.264369	24	18431	4.265549	23
18332	4.263210	24	18382	4.264393	24	18432	4.265572	24
18333	4.263234	24	18383	4.264416	23	18433	4.265596	24
18334	4.263257	23	18384	4.264440	24	18434	4.265620	24
18335	4.263281	24	18385	4.264464	24	18435	4.265643	23
18336	4.263305	24	18386	4.264487	23	18436	4.265667	24
18337	4.263328	23	18387	4.264511	24	18437	4.265690	23
18338	4.263352	24	18388	4.264534	23	18438	4.265714	24
18339	4.263376	24	18389	4.264558	24	18439	4.265737	23
18340	4.263399	23	18390	4.264582	24	18440	4.265761	24
18341	4.263423	24	18391	4.264605	23	18441	4.265784	23
18342	4.263447	24	18392	4.264629	24	18442	4.265808	24
18343	4.263470	23	18393	4.264653	23	18443	4.265832	24
18344	4.263494	24	18394	4.264676	24	18444	4.265855	23
18345	4.263518	24	18395	4.264700	24	18445	4.265879	24
18346	4.263541	23	18396	4.264723	23	18446	4.265902	23
18347	4.263565	24	18397	4.264747	24	18447	4.265926	24
18348	4.263589	24	18398	4.264771	23	18448	4.265949	23
18349	4.263612	23	18399	4.264794	24	18449	4.265973	24
18350	4.263636	24	18400	4.264818	23	18450	4.265996	23



TABLES
DE
LOGARITHMES

DES SINUS, COSINUS, TANGENTES
ET COTANGENTES,

POUR CHAQUE MINUTE DU QUART DE CERCLE.

Nomb.	5. 12' 30"	D.	Nomb.	5. 13' 20"	D.	Nomb.	5. 14' 10"	D.
	Logarith.			Logarith.			Logarith.	
18750	4.273001	23	18800	4.274158	23	18850	4.275311	23
18751	4.273024	23	18801	4.274181	23	18851	4.275334	23
18752	4.273048	24	18802	4.274204	23	18852	4.275357	23
18753	4.273071	23	18803	4.274227	23	18853	4.275380	23
18754	4.273094	23	18804	4.274250	23	18854	4.275404	24
18755	4.273117	23	18805	4.274273	23	18855	4.275427	23
18756	4.273140	23	18806	4.274296	23	18856	4.275450	23
18757	4.273163	23	18807	4.274320	24	18857	4.275473	23
18758	4.273187	24	18808	4.274343	23	18858	4.275496	23
18759	4.273210	23	18809	4.274366	23	18859	4.275519	23
18760	4.273233	23	18810	4.274389	23	18860	4.275542	23
18761	4.273256	23	18811	4.274412	23	18861	4.275565	23
18762	4.273279	23	18812	4.274435	23	18862	4.275588	23
18763	4.273302	23	18813	4.274458	23	18863	4.275611	23
18764	4.273325	23	18814	4.274481	23	18864	4.275634	23
18765	4.273349	24	18815	4.274504	23	18865	4.275657	23
18766	4.273372	23	18816	4.274527	23	18866	4.275680	23
18767	4.273395	23	18817	4.274550	23	18867	4.275703	23
18768	4.273418	23	18818	4.274573	23	18868	4.275726	23
18769	4.273441	23	18819	4.274597	24	18869	4.275749	23
18770	4.273464	23	18820	4.274620	23	18870	4.275772	23
18771	4.273487	23	18821	4.274643	23	18871	4.275795	23
18772	4.273511	24	18822	4.274666	23	18872	4.275818	23
18773	4.273534	23	18823	4.274689	23	18873	4.275841	23
18774	4.273557	23	18824	4.274712	23	18874	4.275864	23
18775	4.273580	23	18825	4.274735	23	18875	4.275887	23
18776	4.273603	23	18826	4.274758	23	18876	4.275910	23
18777	4.273626	23	18827	4.274781	23	18877	4.275933	23
18778	4.273649	23	18828	4.274804	23	18878	4.275956	23
18779	4.273672	23	18829	4.274827	23	18879	4.275979	23
18780	4.273696	24	18830	4.274850	23	18880	4.276002	23
18781	4.273719	23	18831	4.274873	23	18881	4.276025	23
18782	4.273742	23	18832	4.274896	23	18882	4.276048	23
18783	4.273765	23	18833	4.274920	24	18883	4.276071	23
18784	4.273788	23	18834	4.274943	23	18884	4.276094	23
18785	4.273811	23	18835	4.274966	23	18885	4.276117	23
18786	4.273834	23	18836	4.274989	23	18886	4.276140	23
18787	4.273857	23	18837	4.275012	23	18887	4.276163	23
18788	4.273881	24	18838	4.275035	23	18888	4.276186	23
18789	4.273904	23	18839	4.275058	23	18889	4.276209	23
18790	4.273927	23	18840	4.275081	23	18890	4.276232	23
18791	4.273950	23	18841	4.275104	23	18891	4.276255	23
18792	4.273973	23	18842	4.275127	23	18892	4.276278	23
18793	4.273996	23	18843	4.275150	23	18893	4.276301	23
18794	4.274019	23	18844	4.275173	23	18894	4.276324	23
18795	4.274042	23	18845	4.275196	23	18895	4.276347	23
18796	4.274065	23	18846	4.275219	23	18896	4.276370	23
18797	4.274089	24	18847	4.275242	23	18897	4.276393	23
18798	4.274112	23	18848	4.275265	23	18898	4.276416	23
18799	4.274135	23	18849	4.275288	23	18899	4.276439	23
18800	4.274158	23	18850	4.275311	23	18900	4.276462	23

	sin. I	4-685	Tang. I	Cotang. I	Cosin. I		
0	8.241855	553	619	8.241921	1.758079	9.999934	60
1	8.249033	552	620	8.249102	1.758098	9.999932	59
2	8.256094	551	622	8.256165	1.743835	9.999929	58
3	8.263042	550	623	8.263115	1.736885	9.999927	57
4	8.269861	550	625	8.269956	1.730044	9.999925	56
5	8.276614	549	626	8.276691	1.723309	9.999922	55
6	8.283243	548	628	8.283323	1.716677	9.999920	54
7	8.289773	547	630	8.289856	1.710144	9.999918	53
8	8.296207	546	631	8.296292	1.703708	9.999915	52
9	8.302546	546	633	8.302634	1.697366	9.999913	51
10	8.308794	545	635	8.308884	1.691116	9.999910	50
11	8.314954	544	636	8.315046	1.684954	9.999907	49
12	8.321027	543	638	8.321122	1.678878	9.999905	48
13	8.327010	542	640	8.327114	1.672886	9.999902	47
14	8.332924	541	641	8.333025	1.666975	9.999899	46
15	8.338753	540	643	8.338856	1.661144	9.999897	45
16	8.344504	539	645	8.344610	1.655390	9.999894	44
17	8.350181	539	647	8.350289	1.649711	9.999891	43
18	8.355783	538	649	8.355895	1.644105	9.999888	42
19	8.361315	537	651	8.361430	1.638570	9.999885	41
20	8.366777	536	653	8.366895	1.633105	9.999882	40
21	8.372171	535	655	8.372292	1.627708	9.999879	39
22	8.377499	534	657	8.377622	1.622378	9.999876	38
23	8.382762	533	659	8.382889	1.617111	9.999873	37
24	8.387962	532	661	8.388092	1.611908	9.999870	36
25	8.393101	531	663	8.393234	1.606766	9.999867	35
26	8.398179	530	665	8.398315	1.601685	9.999864	34
27	8.403199	528	667	8.403338	1.596662	9.999861	33
28	8.408161	527	669	8.408304	1.591696	9.999858	32
29	8.413068	526	671	8.413213	1.586787	9.999855	31
30	8.417919	525	673	8.418068	1.581932	9.999851	30
31	8.422717	524	675	8.422869	1.577131	9.999848	29
32	8.427462	523	677	8.427618	1.572382	9.999844	28
33	8.432156	522	679	8.432315	1.567685	9.999841	27
34	8.436800	521	681	8.436962	1.563038	9.999838	26
35	8.441394	520	684	8.441560	1.558440	9.999834	25
36	8.445941	518	686	8.446110	1.553890	9.999831	24
37	8.450440	517	689	8.450613	1.549387	9.999827	23
38	8.454893	516	692	8.455070	1.544930	9.999824	22
39	8.459301	515	694	8.459481	1.540519	9.999820	21
40	8.463665	514	697	8.463849	1.536151	9.999816	20
41	8.467985	512	700	8.468172	1.531828	9.999813	19
42	8.472263	511	702	8.472454	1.527546	9.999809	18
43	8.476498	510	705	8.476693	1.523307	9.999805	17
44	8.480693	509	707	8.480892	1.519108	9.999801	16
45	8.484848	507	710	8.485050	1.514950	9.999797	15
46	8.488963	506	712	8.489170	1.510830	9.999794	14
47	8.493040	505	715	8.493250	1.506750	9.999790	13
48	8.497078	504	717	8.497293	1.502707	9.999786	12
49	8.501080	502	720	8.501298	1.498702	9.999782	11
50	8.505045	501	723	8.505267	1.494733	9.999778	10
51	8.508974	500	725	8.509200	1.490800	9.999774	9
52	8.512867	498	728	8.513098	1.486902	9.999769	8
53	8.516726	497	731	8.516961	1.483039	9.999765	7
54	8.520551	495	733	8.520790	1.479210	9.999761	6
55	8.524343	494	736	8.524586	1.475414	9.999757	5
56	8.528102	493	739	8.528349	1.471651	9.999753	4
57	8.531828	491	742	8.532080	1.467920	9.999748	3
58	8.535523	490	745	8.535779	1.464221	9.999744	2
59	8.539186	488	748	8.539447	1.460553	9.999740	1
60	8.542819	487	751	8.543084	1.456916	9.999735	0
	Co-in. 88			Cotang. 88	Tang. 88	Sin. 88	I

5. 25' 0"			5. 25' 50"			5. 26' 40"		
Nomb.	Logarith.	D.	Nomb.	Logarith.	D.	Nomb.	Logarith.	D.
19500	4.290035	22	19550	4.291147		19600	4.292256	22
19501	4.290057	22	19551	4.291169	22	19601	4.292278	22
19502	4.290079	22	19552	4.291191	22	19602	4.292300	22
19503	4.290101	22	19553	4.291213	22	19603	4.292322	22
19504	4.290124	23	19554	4.291236	23	19604	4.292345	23
19505	4.290146	22	19555	4.291258	22	19605	4.292367	22
19506	4.290168	22	19556	4.291280	22	19606	4.292389	22
19507	4.290190	22	19557	4.291302	22	19607	4.292411	22
19508	4.290213	23	19558	4.291324	22	19608	4.292433	22
19509	4.290235	22	19559	4.291347	23	19609	4.292455	22
19510	4.290257	22	19560	4.291369	22	19610	4.292478	23
19511	4.290279	22	19561	4.291391	22	19611	4.292500	22
19512	4.290302	23	19562	4.291413	22	19612	4.292522	22
19513	4.290324	22	19563	4.291435	22	19613	4.292544	22
19514	4.290346	22	19564	4.291458	23	19614	4.292566	22
19515	4.290369	23	19565	4.291480	22	19615	4.292588	22
19516	4.290391	22	19566	4.291502	22	19616	4.292610	22
19517	4.290413	22	19567	4.291524	22	19617	4.292633	23
19518	4.290435	22	19568	4.291546	22	19618	4.292655	22
19519	4.290458	23	19569	4.291569	23	19619	4.292677	22
19520	4.290480	22	19570	4.291591	22	19620	4.292699	22
19521	4.290502	22	19571	4.291613	22	19621	4.292721	22
19522	4.290524	22	19572	4.291635	22	19622	4.292743	22
19523	4.290547	23	19573	4.291657	22	19623	4.292765	22
19524	4.290569	22	19574	4.291680	23	19624	4.292787	22
19525	4.290591	22	19575	4.291702	22	19625	4.292810	23
19526	4.290613	22	19576	4.291724	22	19626	4.292832	22
19527	4.290635	22	19577	4.291746	22	19627	4.292854	22
19528	4.290658	23	19578	4.291768	22	19628	4.292876	22
19529	4.290680	22	19579	4.291790	22	19629	4.292898	22
19530	4.290702	22	19580	4.291813	23	19630	4.292920	22
19531	4.290724	22	19581	4.291835	22	19631	4.292942	22
19532	4.290747	23	19582	4.291857	22	19632	4.292964	22
19533	4.290769	22	19583	4.291879	22	19633	4.292987	23
19534	4.290791	22	19584	4.291901	22	19634	4.293009	22
19535	4.290813	23	19585	4.291924	23	19635	4.293031	22
19536	4.290836	22	19586	4.291946	22	19636	4.293053	22
19537	4.290858	22	19587	4.291968	22	19637	4.293075	22
19538	4.290880	22	19588	4.291990	22	19638	4.293097	22
19539	4.290902	22	19589	4.292012	22	19639	4.293119	22
19540	4.290925	23	19590	4.292034	23	19640	4.293141	23
19541	4.290947	22	19591	4.292057	22	19641	4.293164	22
19542	4.290969	22	19592	4.292079	22	19642	4.293186	22
19543	4.290991	22	19593	4.292101	22	19643	4.293208	22
19544	4.291013	23	19594	4.292123	22	19644	4.293230	22
19545	4.291036	22	19595	4.292145	22	19645	4.293252	22
19546	4.291058	22	19596	4.292167	23	19646	4.293274	22
19547	4.291080	22	19597	4.292190	22	19647	4.293296	22
19548	4.291102	22	19598	4.292212	22	19648	4.293318	22
19549	4.291124	23	19599	4.292234	22	19649	4.293340	23
19550	4.291147		19600	4.292256	22	19650	4.293363	

Nomb.	5. 27' 30"	D.	Nomb.	5. 28' 20"	D.	Nomb.	5. 29' 10"	D.
	Logarith.			Logarith.			Logarith.	
19650	4.293363		19700	4.294466		19750	4.295567	
19651	4.293385	22	19701	4.294488	22	19751	4.295589	22
19652	4.293407	22	19702	4.294510	22	19752	4.295611	22
19653	4.293429	22	19703	4.294532	22	19753	4.295633	22
19654	4.293451	22	19704	4.294554	22	19754	4.295655	22
19655	4.293473	22	19705	4.294576	22	19755	4.295677	22
19656	4.293495	22	19706	4.294598	22	19756	4.295699	22
19657	4.293517	22	19707	4.294620	22	19757	4.295721	22
19658	4.293539	22	19708	4.294643	23	19758	4.295743	22
19659	4.293561	22	19709	4.294665	22	19759	4.295765	22
19660	4.293583	22	19710	4.294687	22	19760	4.295787	22
19661	4.293606	23	19711	4.294709	22	19761	4.295809	22
19662	4.293628	22	19712	4.294731	22	19762	4.295831	22
19663	4.293650	22	19713	4.294753	22	19763	4.295853	22
19664	4.293672	22	19714	4.294775	22	19764	4.295875	22
19665	4.293694	22	19715	4.294797	22	19765	4.295897	22
19666	4.293716	22	19716	4.294819	22	19766	4.295919	22
19667	4.293738	22	19717	4.294841	22	19767	4.295941	22
19668	4.293760	22	19718	4.294863	22	19768	4.295963	22
19669	4.293782	22	19719	4.294885	22	19769	4.295985	22
19670	4.293804	22	19720	4.294907	22	19770	4.296007	22
19671	4.293826	22	19721	4.294929	22	19771	4.296029	22
19672	4.293848	23	19722	4.294951	22	19772	4.296051	22
19673	4.293871	22	19723	4.294973	22	19773	4.296073	22
19674	4.293893	22	19724	4.294995	22	19774	4.296094	22
19675	4.293915	22	19725	4.295017	22	19775	4.296116	22
19676	4.293937	22	19726	4.295039	22	19776	4.296138	22
19677	4.293959	22	19727	4.295061	22	19777	4.296160	22
19678	4.293981	22	19728	4.295083	22	19778	4.296182	22
19679	4.294003	22	19729	4.295105	22	19779	4.296204	22
19680	4.294025	22	19730	4.295127	22	19780	4.296226	22
19681	4.294047	22	19731	4.295149	22	19781	4.296248	22
19682	4.294069	22	19732	4.295171	22	19782	4.296270	22
19683	4.294091	22	19733	4.295193	22	19783	4.296292	22
19684	4.294113	22	19734	4.295215	22	19784	4.296314	22
19685	4.294135	22	19735	4.295237	22	19785	4.296336	22
19686	4.294157	23	19736	4.295259	22	19786	4.296358	22
19687	4.294180	22	19737	4.295281	22	19787	4.296380	22
19688	4.294202	22	19738	4.295303	22	19788	4.296402	22
19689	4.294224	22	19739	4.295325	22	19789	4.296424	22
19690	4.294246	22	19740	4.295347	22	19790	4.296446	22
19691	4.294268	22	19741	4.295369	22	19791	4.296468	22
19692	4.294290	22	19742	4.295391	22	19792	4.296490	22
19693	4.294312	22	19743	4.295413	22	19793	4.296512	22
19694	4.294334	22	19744	4.295435	22	19794	4.296534	22
19695	4.294356	22	19745	4.295457	22	19795	4.296556	22
19696	4.294378	22	19746	4.295479	22	19796	4.296577	21
19697	4.294400	22	19747	4.295501	22	19797	4.296599	22
19698	4.294422	22	19748	4.295523	22	19798	4.296621	22
19699	4.294444	22	19749	4.295545	22	19799	4.296643	22
19700	4.294466		19750	4.295567		19800	4.296665	

Nomb.	5. 30' 0"	D.	Nomb.	5. 30' 50"	D.	Nomb.	5. 31' 40"	D.
	Logarith.			Logarith.			Logarith.	
19800	4.296665		19850	4.297760		19900	4.298853	
19801	4.296687	22	19851	4.297782	22	19901	4.298875	22
19802	4.296709	22	19852	4.297804	22	19902	4.298897	22
19803	4.296731	22	19853	4.297826	22	19906	4.298918	21
19804	4.296753	22	19854	4.297848	22	19904	4.298940	22
19805	4.296775	22	19855	4.297870	22	19905	4.298962	22
19806	4.296797	22	19856	4.297892	22	19906	4.298984	22
19807	4.296819	22	19857	4.297914	22	19907	4.299006	22
19808	4.296841	22	19858	4.297935	21	19908	4.299028	22
19809	4.296863	22	19859	4.297957	22	19909	4.299049	21
19810	4.296884	21	19860	4.297979	22	19910	4.299071	22
19811	4.296906	22	19861	4.298001	22	19911	4.299093	22
19812	4.296928	22	19862	4.298023	22	19912	4.299115	22
19813	4.296950	22	19863	4.298045	22	19913	4.299137	22
19814	4.296972	22	19864	4.298067	22	19914	4.299158	21
19815	4.296994	22	19865	4.298089	22	19915	4.299180	22
19816	4.297016	22	19866	4.298110	21	19916	4.299202	22
19817	4.297038	22	19867	4.298132	22	19917	4.299224	22
19818	4.297060	22	19868	4.298154	22	19918	4.299246	22
19819	4.297082	22	19869	4.298176	22	19919	4.299267	21
19820	4.297104	22	19870	4.298198	22	19920	4.299289	22
19821	4.297126	22	19871	4.298220	22	19921	4.299311	22
19822	4.297147	21	19872	4.298242	21	19922	4.299333	22
19823	4.297169	22	19873	4.298263	22	19923	4.299355	22
19824	4.297191	22	19874	4.298285	22	19924	4.299376	21
19825	4.297213	22	19875	4.298307	22	19925	4.299398	22
19826	4.297235	22	19876	4.298329	22	19926	4.299420	22
19827	4.297257	22	19877	4.298351	22	19927	4.299442	22
19828	4.297279	22	19878	4.298373	21	19928	4.299464	22
19829	4.297301	22	19879	4.298394	22	19929	4.299485	21
19830	4.297323	22	19880	4.298416	22	19930	4.299507	22
19831	4.297345	22	19881	4.298438	22	19931	4.299529	22
19832	4.297366	21	19882	4.298460	22	19932	4.299551	22
19833	4.297388	22	19883	4.298482	22	19933	4.299573	22
19834	4.297410	22	19884	4.298504	22	19934	4.299594	21
19835	4.297432	22	19885	4.298526	22	19935	4.299616	22
19836	4.297454	22	19886	4.298547	21	19936	4.299638	22
19837	4.297476	22	19887	4.298569	22	19937	4.299660	22
19838	4.297498	22	19888	4.298591	22	19938	4.299682	21
19839	4.297520	22	19889	4.298613	22	19939	4.299703	22
19840	4.297542	22	19890	4.298635	22	19940	4.299725	22
19841	4.297564	22	19891	4.298657	21	19941	4.299747	22
19842	4.297585	21	19892	4.298678	22	19942	4.299769	21
19843	4.297607	22	19893	4.298700	22	19943	4.299790	22
19844	4.297629	22	19894	4.298722	22	19944	4.299812	22
19845	4.297651	22	19895	4.298744	22	19945	4.299834	22
19846	4.297673	22	19896	4.298766	22	19946	4.299856	22
19847	4.297695	22	19897	4.298788	21	19947	4.299878	22
19848	4.297717	22	19898	4.298809	22	19948	4.299899	21
19849	4.297739	22	19899	4.298831	22	19949	4.299921	22
19850	4.297760	21	19900	4.298853	22	19950	4.299943	22

Nomb.	5. 32' 30" Logarith.	D.	Nomb.	5. 33' 20" Logarith.	D.	Nomb.	5. 34' 10" Logarith.	D.
19950	4.299943	22	20000	4.301030	22	20050	4.302114	22
19951	4.299965	21	20001	4.301052	21	20051	4.302136	22
19952	4.299986	22	20002	4.301073	22	20052	4.302158	21
19953	4.300008	22	20003	4.301095	22	20053	4.302179	22
19954	4.300030	22	20004	4.301117	22	20054	4.302201	22
19955	4.300052	22	20005	4.301139	22	20055	4.302223	22
19956	4.300073	21	20006	4.301160	21	20056	4.302244	21
19957	4.300095	22	20007	4.301182	22	20057	4.302266	22
19958	4.300117	22	20008	4.301204	22	20058	4.302288	22
19959	4.300139	22	20009	4.301225	21	20059	4.302309	21
19960	4.300160	21	20010	4.301247	22	20060	4.302331	22
19961	4.300182	22	20011	4.301269	22	20061	4.302353	22
19962	4.300204	22	20012	4.301290	21	20062	4.302374	21
19963	4.300226	22	20013	4.301312	22	20063	4.302396	22
19964	4.300248	22	20014	4.301334	22	20064	4.302417	21
19965	4.300269	21	20015	4.301356	22	20065	4.302439	22
19966	4.300291	22	20016	4.301377	21	20066	4.302461	22
19967	4.300313	22	20017	4.301399	22	20067	4.302482	21
19968	4.300335	22	20018	4.301421	22	20068	4.302504	22
19969	4.300356	21	20019	4.301442	21	20069	4.302526	22
19970	4.300378	22	20020	4.301464	22	20070	4.302547	21
19971	4.300400	22	20021	4.301486	22	20071	4.302569	22
19972	4.300422	22	20022	4.301507	21	20072	4.302591	22
19973	4.300443	21	20023	4.301529	22	20073	4.302612	21
19974	4.300465	22	20024	4.301551	22	20074	4.302634	22
19975	4.300487	22	20025	4.301572	21	20075	4.302656	22
19976	4.300508	21	20026	4.301594	22	20076	4.302677	21
19977	4.300530	22	20027	4.301616	22	20077	4.302699	22
19978	4.300552	22	20028	4.301638	22	20078	4.302720	21
19979	4.300574	22	20029	4.301659	21	20079	4.302742	22
19980	4.300595	21	20030	4.301681	22	20080	4.302764	22
19981	4.300617	22	20031	4.301703	22	20081	4.302785	21
19982	4.300639	22	20032	4.301724	21	20082	4.302807	22
19983	4.300661	22	20033	4.301746	22	20083	4.302829	22
19984	4.300682	21	20034	4.301768	22	20084	4.302850	21
19985	4.300704	22	20035	4.301789	21	20085	4.302872	22
19986	4.300726	22	20036	4.301811	22	20086	4.302893	22
19987	4.300748	22	20037	4.301833	22	20087	4.302915	22
19988	4.300769	21	20038	4.301854	21	20088	4.302937	21
19989	4.300791	22	20039	4.301876	22	20089	4.302958	22
19990	4.300813	22	20040	4.301898	22	20090	4.302980	22
19991	4.300834	21	20041	4.301919	21	20091	4.303002	21
19992	4.300856	22	20042	4.301941	22	20092	4.303023	22
19993	4.300878	22	20043	4.301963	22	20093	4.303045	22
19994	4.300900	22	20044	4.301984	21	20094	4.303066	21
19995	4.300921	21	20045	4.302006	22	20095	4.303088	22
19996	4.300943	22	20046	4.302028	22	20096	4.303110	21
19997	4.300965	22	20047	4.302049	21	20097	4.303131	22
19998	4.300987	22	20048	4.302071	22	20098	4.303153	21
19999	4.301008	21	20049	4.302093	22	20099	4.303174	22
20000	4.301030	22	20050	4.302114	21	20100	4.303196	22

Nomb.	5. 35' 0"	D.	Nomb.	5. 35' 50"	D.	Nomb.	5. 36' 40"	D.
	Logarith.			Logarith.			Logarith.	
20100	4.303196	22	20150	4.304275	22	20200	4.305351	22
20101	4.303218	21	20151	4.304297	21	20201	4.305373	21
20102	4.303239	22	20152	4.304318	22	20202	4.305394	22
20103	4.303261	22	20153	4.304340	22	20203	4.305416	22
20104	4.303282	21	20154	4.304361	21	20204	4.305437	21
20105	4.303304	22	20155	4.304383	22	20205	4.305459	22
20106	4.303326	21	20156	4.304404	21	20206	4.305480	21
20107	4.303347	22	20157	4.304426	22	20207	4.305502	22
20108	4.303369	22	20158	4.304447	21	20208	4.305523	21
20109	4.303390	21	20159	4.304469	22	20209	4.305545	22
20110	4.303412	22	20160	4.304490	21	20210	4.305566	21
20111	4.303434	22	20161	4.304512	22	20211	4.305588	22
20112	4.303455	21	20162	4.304534	22	20212	4.305609	21
20113	4.303477	22	20163	4.304555	21	20213	4.305631	22
20114	4.303498	21	20164	4.304577	22	20214	4.305652	21
20115	4.303520	22	20165	4.304598	21	20215	4.305674	22
20116	4.303542	22	20166	4.304620	22	20216	4.305695	21
20117	4.303563	21	20167	4.304641	21	20217	4.305717	22
20118	4.303585	22	20168	4.304663	22	20218	4.305738	21
20119	4.303606	21	20169	4.304684	21	20219	4.305760	22
20120	4.303628	22	20170	4.304706	22	20220	4.305781	21
20121	4.303650	21	20171	4.304727	21	20221	4.305803	22
20122	4.303671	22	20172	4.304749	22	20222	4.305824	21
20123	4.303693	22	20173	4.304770	21	20223	4.305846	22
20124	4.303714	21	20174	4.304792	22	20224	4.305867	21
20125	4.303736	22	20175	4.304813	21	20225	4.305888	22
20126	4.303757	21	20176	4.304835	22	20226	4.305910	21
20127	4.303779	22	20177	4.304857	22	20227	4.305931	22
20128	4.303801	22	20178	4.304878	21	20228	4.305953	21
20129	4.303822	21	20179	4.304900	22	20229	4.305974	22
20130	4.303844	22	20180	4.304921	21	20230	4.305996	21
20131	4.303865	21	20181	4.304943	22	20231	4.306017	22
20132	4.303887	22	20182	4.304964	21	20232	4.306039	21
20133	4.303908	21	20183	4.304986	22	20233	4.306060	22
20134	4.303930	22	20184	4.305007	21	20234	4.306082	21
20135	4.303952	22	20185	4.305029	22	20235	4.306103	22
20136	4.303973	21	20186	4.305050	21	20236	4.306125	21
20137	4.303995	22	20187	4.305072	22	20237	4.306146	22
20138	4.304016	21	20188	4.305093	21	20238	4.306168	21
20139	4.304038	22	20189	4.305115	22	20239	4.306189	22
20140	4.304059	21	20190	4.305136	21	20240	4.306210	21
20141	4.304081	22	20191	4.305158	22	20241	4.306232	22
20142	4.304103	22	20192	4.305179	21	20242	4.306253	21
20143	4.304124	21	20193	4.305201	22	20243	4.306275	22
20144	4.304146	22	20194	4.305222	21	20244	4.306296	21
20145	4.304167	21	20195	4.305244	22	20245	4.306318	22
20146	4.304189	22	20196	4.305265	21	20246	4.306339	21
20147	4.304210	22	20197	4.305287	22	20247	4.306361	22
20148	4.304232	21	20198	4.305308	21	20248	4.306382	21
20149	4.304253	22	20199	4.305330	22	20249	4.306404	22
20150	4.304275	21	20200	4.305351	21	20250	4.306425	21

Nomb.	5. 37' 30" Logarithh.	D.	Nomb.	5. 38' 20" Logarithh.	D.	Nomb.	5. 39' 10" Logarithh.	D.
20250	4.306425	21	20300	4.307496	21	20350	4.308564	22
20251	4.306446	22	20301	4.307517	22	20351	4.308586	21
20252	4.306468	21	20302	4.307539	21	20352	4.308607	21
20253	4.306489	21	20303	4.307560	21	20353	4.308628	21
20254	4.306511	22	20304	4.307582	22	20354	4.308650	22
20255	4.306532	21	20305	4.307603	21	20355	4.308671	21
20256	4.306554	22	20306	4.307624	22	20356	4.308692	21
20257	4.306575	21	20307	4.307646	21	20357	4.308714	22
20258	4.306597	22	20308	4.307667	21	20358	4.308735	21
20259	4.306618	21	20309	4.307688	21	20359	4.308756	21
20260	4.306639	21	20310	4.307710	22	20360	4.308778	22
20261	4.306661	22	20311	4.307731	21	20361	4.308799	21
20262	4.306682	21	20312	4.307753	22	20362	4.308820	21
20263	4.306704	22	20313	4.307774	21	20363	4.308842	22
20264	4.306725	21	20314	4.307795	21	20364	4.308863	21
20265	4.306747	22	20315	4.307817	22	20365	4.308884	21
20266	4.306768	21	20316	4.307838	21	20366	4.308906	22
20267	4.306789	21	20317	4.307860	22	20367	4.308927	21
20268	4.306811	22	20318	4.307881	21	20368	4.308948	21
20269	4.306832	21	20319	4.307902	21	20369	4.308970	22
20270	4.306854	22	20320	4.307924	22	20370	4.308991	21
20271	4.306875	21	20321	4.307945	21	20371	4.309012	21
20272	4.306897	22	20322	4.307966	21	20372	4.309034	22
20273	4.306918	21	20323	4.307988	22	20373	4.309055	21
20274	4.306939	21	20324	4.308009	21	20374	4.309076	21
20275	4.306961	22	20325	4.308031	22	20375	4.309098	22
20276	4.306982	21	20326	4.308052	21	20376	4.309119	21
20277	4.307004	22	20327	4.308073	21	20377	4.309140	21
20278	4.307025	21	20328	4.308095	22	20378	4.309162	22
20279	4.307046	21	20329	4.308116	21	20379	4.309183	21
20280	4.307068	22	20330	4.308137	21	20380	4.309204	21
20281	4.307089	21	20331	4.308159	22	20381	4.309225	21
20282	4.307111	22	20332	4.308180	21	20382	4.309247	22
20283	4.307132	21	20333	4.308201	21	20383	4.309268	21
20284	4.307154	22	20334	4.308223	22	20384	4.309289	21
20285	4.307175	21	20335	4.308244	21	20385	4.309311	22
20286	4.307196	21	20336	4.308265	21	20386	4.309332	21
20287	4.307218	22	20337	4.308287	22	20387	4.309353	21
20288	4.307239	21	20338	4.308308	21	20388	4.309375	22
20289	4.307261	22	20339	4.308330	22	20389	4.309396	21
20290	4.307282	21	20340	4.308351	21	20390	4.309417	21
20291	4.307303	21	20341	4.308372	21	20391	4.309438	22
20292	4.307325	22	20342	4.308394	22	20392	4.309460	21
20293	4.307346	21	20343	4.308415	21	20393	4.309481	21
20294	4.307368	22	20344	4.308436	21	20394	4.309502	21
20295	4.307389	21	20345	4.308458	22	20395	4.309524	22
20296	4.307410	21	20346	4.308479	21	20396	4.309545	21
20297	4.307432	22	20347	4.308500	21	20397	4.309566	21
20298	4.307453	21	20348	4.308522	22	20398	4.309588	22
20299	4.307475	22	20349	4.308543	21	20399	4.309609	21
20300	4.307496	21	20350	4.308564	21	20400	4.309630	21

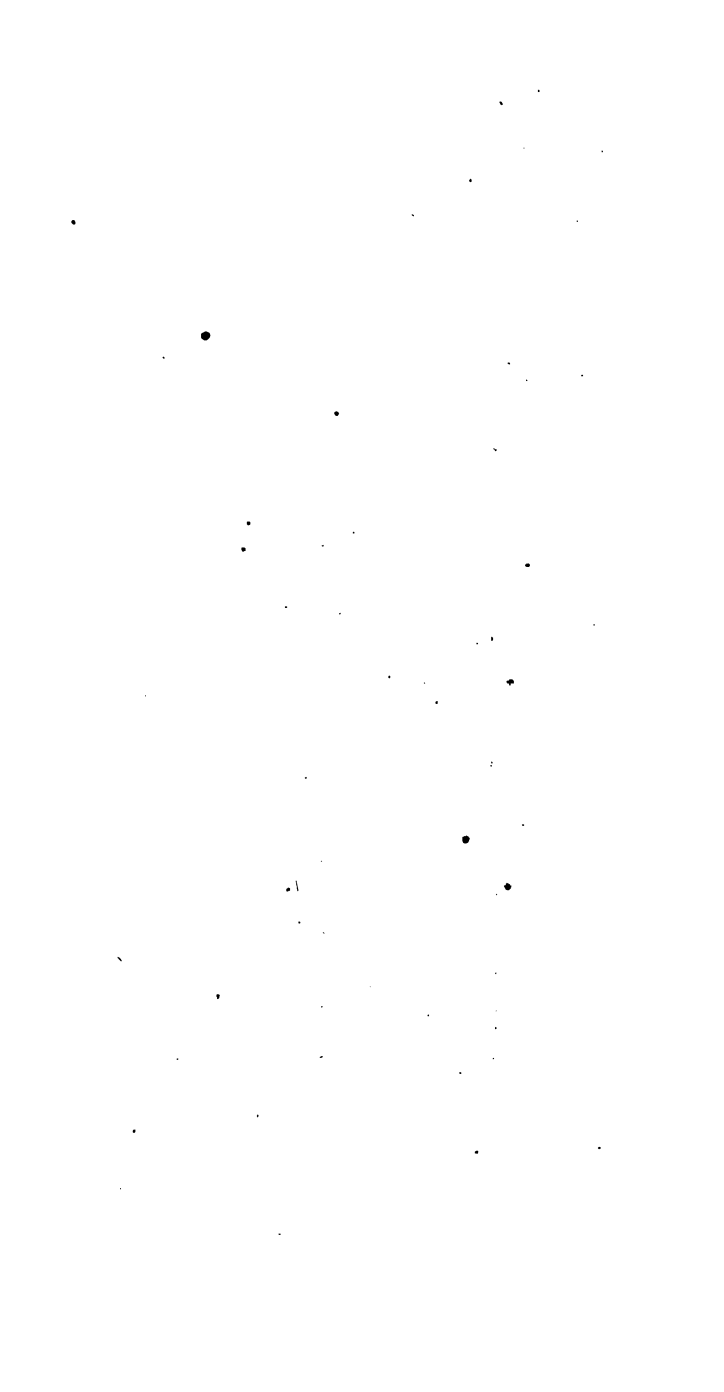
Nomb.	5. 40' 0" Logarith.	D.	Nomb.	5. 40' 50" Logarith.	D.	Nomb.	5. 41' 40" Logarith.	D.
20400	4.309630	21	20450	4.310693	21	20500	4.311754	21
20401	4.309651	22	20451	4.310714	22	20501	4.311775	21
20402	4.309673	21	20452	4.310736	22	20502	4.311796	21
20403	4.309694	21	20453	4.310757	21	20503	4.311817	21
20404	4.309715	21	20454	4.310778	21	20504	4.311839	22
20405	4.309737	22	20455	4.310799	21	20505	4.311860	21
20406	4.309758	21	20456	4.310821	22	20506	4.311881	21
20407	4.309779	21	20457	4.310842	21	20507	4.311902	21
20408	4.309800	21	20458	4.310863	21	20508	4.311923	21
20409	4.309822	22	20459	4.310884	21	20509	4.311944	21
20410	4.309843	21	20460	4.310906	22	20510	4.311966	22
20411	4.309864	21	20461	4.310927	21	20511	4.311987	21
20412	4.309886	22	20462	4.310948	21	20512	4.312008	21
20413	4.309907	21	20463	4.310969	21	20513	4.312029	21
20414	4.309928	21	20464	4.310990	21	20514	4.312050	21
20415	4.309949	21	20465	4.311012	22	20515	4.312071	21
20416	4.309971	22	20466	4.311033	21	20516	4.312093	22
20417	4.309992	21	20467	4.311054	21	20517	4.312114	21
20418	4.310013	21	20468	4.311075	21	20518	4.312135	21
20419	4.310034	21	20469	4.311097	22	20519	4.312156	21
20420	4.310056	22	20470	4.311118	21	20520	4.312177	21
20421	4.310077	21	20471	4.311139	21	20521	4.312198	21
20422	4.310098	21	20472	4.311160	21	20522	4.312220	22
20423	4.310119	21	20473	4.311181	21	20523	4.312241	21
20424	4.310141	22	20474	4.311203	22	20524	4.312262	21
20425	4.310162	21	20475	4.311224	21	20525	4.312283	21
20426	4.310183	21	20476	4.311245	21	20526	4.312304	21
20427	4.310205	22	20477	4.311266	21	20527	4.312325	21
20428	4.310226	21	20478	4.311287	21	20528	4.312347	22
20429	4.310247	21	20479	4.311309	22	20529	4.312368	21
20430	4.310268	21	20480	4.311330	21	20530	4.312389	21
20431	4.310290	22	20481	4.311351	21	20531	4.312410	21
20432	4.310311	21	20482	4.311372	21	20532	4.312431	21
20433	4.310332	21	20483	4.311394	22	20533	4.312452	21
20434	4.310353	21	20484	4.311415	21	20534	4.312474	22
20435	4.310375	22	20485	4.311436	21	20535	4.312495	21
20436	4.310396	21	20486	4.311457	21	20536	4.312516	21
20437	4.310417	21	20487	4.311478	21	20537	4.312537	21
20438	4.310438	22	20488	4.311500	22	20538	4.312558	21
20439	4.310460	21	20489	4.311521	21	20539	4.312579	21
20440	4.310481	21	20490	4.311542	21	20540	4.312600	22
20441	4.310502	21	20491	4.311563	21	20541	4.312622	21
20442	4.310523	21	20492	4.311584	21	20542	4.312643	21
20443	4.310545	22	20493	4.311605	21	20543	4.312664	21
20444	4.310566	21	20494	4.311627	22	20544	4.312685	21
20445	4.310587	21	20495	4.311648	21	20545	4.312706	21
20446	4.310608	21	20496	4.311669	21	20546	4.312727	21
20447	4.310630	22	20497	4.311690	21	20547	4.312748	21
20448	4.310651	21	20498	4.311711	21	20548	4.312770	22
20449	4.310672	21	20499	4.311733	22	20549	4.312791	21
20450	4.310693	21	20500	4.311754	21	20550	4.312812	21

Nomb.	5. 42' 30"	D.	Nomb.	5. 43' 20"	D.	Nomb.	5. 44' 10"	D.
	Logarith.			Logarith.			Logarith.	
20550	4.312812		20600	4.313867		20650	4.314920	
20551	4.312833	21	20601	4.313888	21	20651	4.314941	21
20552	4.312854	21	20602	4.313909	21	20652	4.314962	21
20553	4.312875	21	20603	4.313930	21	20653	4.314983	21
20554	4.312896	21	20604	4.313951	21	20654	4.315004	21
20555	4.312917	21	20605	4.313973	22	20655	4.315025	21
20556	4.312939	22	20606	4.313994	21	20656	4.315046	21
20557	4.312960	21	20607	4.314015	21	20657	4.315067	21
20558	4.312981	21	20608	4.314036	21	20658	4.315088	21
20559	4.313002	21	20609	4.314057	21	20659	4.315109	21
20560	4.313023	21	20610	4.314078	21	20660	4.315130	21
20561	4.313044	21	20611	4.314099	21	20661	4.315151	21
20562	4.313065	21	20612	4.314120	21	20662	4.315172	21
20563	4.313086	21	20613	4.314141	21	20663	4.315193	21
20564	4.313108	22	20614	4.314162	21	20664	4.315214	21
20565	4.313129	21	20615	4.314183	21	20665	4.315235	21
20566	4.313150	21	20616	4.314204	21	20666	4.315256	21
20567	4.313171	21	20617	4.314225	21	20667	4.315277	21
20568	4.313192	21	20618	4.314246	21	20668	4.315298	21
20569	4.313213	21	20619	4.314268	22	20669	4.315319	21
20570	4.313234	21	20620	4.314289	21	20670	4.315340	21
20571	4.313255	21	20621	4.314310	21	20671	4.315361	21
20572	4.313276	21	20622	4.314331	21	20672	4.315382	21
20573	4.313298	22	20623	4.314352	21	20673	4.315403	21
20574	4.313319	21	20624	4.314373	21	20674	4.315424	21
20575	4.313340	21	20625	4.314394	21	20675	4.315445	21
20576	4.313361	21	20626	4.314415	21	20676	4.315466	21
20577	4.313382	21	20627	4.314436	21	20677	4.315487	21
20578	4.313403	21	20628	4.314457	21	20678	4.315508	21
20579	4.313424	21	20629	4.314478	21	20679	4.315529	21
20580	4.313445	21	20630	4.314499	21	20680	4.315550	21
20581	4.313466	21	20631	4.314520	21	20681	4.315571	21
20582	4.313488	22	20632	4.314541	21	20682	4.315592	21
20583	4.313509	21	20633	4.314562	21	20683	4.315613	21
20584	4.313530	21	20634	4.314583	21	20684	4.315634	21
20585	4.313551	21	20635	4.314604	21	20685	4.315655	21
20586	4.313572	21	20636	4.314625	21	20686	4.315676	21
20587	4.313593	21	20637	4.314647	22	20687	4.315697	21
20588	4.313614	21	20638	4.314668	21	20688	4.315718	21
20589	4.313635	21	20639	4.314689	21	20689	4.315739	21
20590	4.313656	21	20640	4.314710	21	20690	4.315760	21
20591	4.313677	21	20641	4.314731	21	20691	4.315781	21
20592	4.313698	22	20642	4.314752	21	20692	4.315802	21
20593	4.313720	21	20643	4.314773	21	20693	4.315823	21
20594	4.313741	21	20644	4.314794	21	20694	4.315844	21
20595	4.313762	21	20645	4.314815	21	20695	4.315865	21
20596	4.313783	21	20646	4.314836	21	20696	4.315886	21
20597	4.313804	21	20647	4.314857	21	20697	4.315907	21
20598	4.313825	21	20648	4.314878	21	20698	4.315928	21
20599	4.313846	21	20649	4.314899	21	20699	4.315949	21
20600	4.313867	21	20650	4.314920	21	20700	4.315970	21

11	1°	Cotang. 11	Cosin. 11	1°	
52		0.711348	9.991947		60
26		0.710674	9.991922		59
99	11.20	0.710001	9.991897	0.41	58
71		0.709329	9.991873		57
42		0.708658	9.991848		56
13		0.707987	9.991823		55
82		0.707318	9.991799		54
50	11.12	0.706650	9.991774		53
17		0.705983	9.991749		52
84		0.705316	9.991724		51
49		0.704651	9.991699		50
13	11.04	0.703987	9.991674	0.42	49
77		0.703323	9.991649		48
39		0.702661	9.991624		47
01		0.701999	9.991599		46
62		0.701338	9.991574		45
22	10.96	0.700678	9.991549		44
80		0.700020	9.991524		43
38		0.699362	9.991498		42
95		0.698705	9.991473		41
51		0.698049	9.991448		40
07	10.89	0.697393	9.991422		39
61		0.696739	9.991397		38
14		0.696086	9.991372		37
67		0.695433	9.991346		36
18		0.694782	9.991321		35
99	10.82	0.694131	9.991295	0.43	34
19		0.693481	9.991270		33
38		0.692832	9.991244		32
15		0.692184	9.991218		31
53		0.691537	9.991193		30
9	10.74	0.690891	9.991167		29
14		0.690246	9.991142		28
19		0.689601	9.991115		27
12		0.688958	9.991090		26
5		0.688315	9.991064		25
7	10.67	0.687673	9.991038		24
8		0.687032	9.991012		23
8		0.686392	9.990986		22
7		0.685753	9.990960		21
5		0.685115	9.990934		20
3	10.60	0.684477	9.990908	0.44	19
6		0.683841	9.990882		18
0		0.683205	9.990855		17
0		0.682570	9.990829		16
7		0.681936	9.990803		15
7	10.53	0.681303	9.990777		14
1		0.680670	9.990750		13
1		0.680039	9.990724		12
1		0.679408	9.990697		11
1		0.678778	9.990671		10
1	10.45	0.678149	9.990645		9
1		0.677521	9.990618		8
1		0.676894	9.990591		7
1		0.676267	9.990565		6
1		0.675642	9.990538		5
1	10.39	0.675017	9.990511	0.45	4
1		0.674393	9.990485		3
1		0.673769	9.990458		2
1		0.673147	9.990431		1
1		0.672525	9.990404		0
		Tang. 78	Sin. 78		1

	Sin. 12	1°	Tang. 12	1°	Cotang. 12	Cosin. 12	1°
0	9.317879		9.327475		0.672525	9.990404	
1	9.318473		9.328095	10.32	0.671905	9.990378	0.43
2	9.319086	9.87	9.328715	10.32	0.671285	9.990351	
3	9.319658		9.329334		0.670666	9.990324	
4	9.320249		9.329953		0.670047	9.990297	
5	9.320840		9.330570		0.669430	9.990270	
6	9.321430		9.331187	10.25	0.668813	9.990243	
7	9.322019	9.80	9.331803	10.25	0.668197	9.990215	
8	9.322607		9.332418		0.667582	9.990188	
9	9.323194		9.333033		0.666967	9.990161	
10	9.323780		9.333646		0.666354	9.990134	
11	9.324366	9.73	9.334259	10.19	0.665741	9.990107	0.48
12	9.324950		9.334871		0.665129	9.990079	
13	9.325534		9.335482		0.664518	9.990052	
14	9.326117		9.336093		0.663907	9.990025	
15	9.326700		9.336702		0.663298	9.989997	
16	9.327281	9.66	9.337311	10.12	0.662688	9.989970	
17	9.327862		9.337919		0.662081	9.989942	
18	9.328442		9.338527		0.661473	9.989915	
19	9.329021		9.339133		0.660867	9.989887	
20	9.329609		9.339739		0.660261	9.989860	
21	9.330196	9.60	9.340344	10.06	0.659656	9.989832	
22	9.330782		9.340948		0.659052	9.989804	
23	9.331369		9.341552		0.658448	9.989777	
24	9.331953		9.342155		0.657843	9.989749	
25	9.332537		9.342757		0.657243	9.989721	1
26	9.333121	9.53	9.343358	9.99	0.656642	9.989693	3
27	9.333704		9.343958		0.656042	9.989665	5
28	9.334286		9.344558		0.655442	9.989637	7
29	9.334867		9.345157		0.654843	9.989609	9
30	9.335447		9.345755		0.654243	9.989581	11
31	9.336026	9.46	9.346353	9.93	0.653647	9.989553	13
32	9.336604		9.346949		0.653051	9.989525	15
33	9.337181		9.347545		0.652455	9.989497	17
34	9.337758		9.348141		0.651859	9.989469	19
35	9.338334		9.348735		0.651265	9.989441	21
36	9.338909	6.40	9.349329	9.87	0.650671	9.989413	23
37	9.339483		9.349922		0.650078	9.989385	25
38	9.339956		9.350514		0.649486	9.989357	27
39	9.340528		9.351106		0.648894	9.989328	29
40	9.341099		9.351697		0.648303	9.989300	31
41	9.341669	9.34	9.352287	9.81	0.647713	9.989271	33
42	9.342238		9.352876		0.647124	9.989243	35
43	9.342806		9.353465		0.646535	9.989214	37
44	9.343373		9.354053		0.645947	9.989186	39
45	9.343939		9.354640		0.645360	9.989157	41
46	9.344504	9.27	9.355227	9.75	0.644773	9.989128	43
47	9.345068		9.355813		0.644187	9.989100	45
48	9.345631		9.356398		0.643602	9.989071	47
49	9.346193		9.356982		0.643018	9.989042	49
50	9.346754		9.357566		0.642434	9.989014	51
51	9.347314	9.21	9.358149	9.69	0.641851	9.988985	53
52	9.347873		9.358731		0.641269	9.988956	55
53	9.348430		9.359313		0.640687	9.988927	57
54	9.348986		9.359893		0.640107	9.988898	59
55	9.349541		9.360474		0.639526	9.988869	61
56	9.350093	9.15	9.361053	9.63	0.638947	9.988840	63
57	9.350643		9.361632		0.638368	9.988811	65
58	9.351192		9.362210		0.637790	9.988782	67
59	9.351740		9.362787		0.637213	9.988753	69
60	9.352288		9.363364		0.636636	9.988724	71
	Cosin. 77		Cotang. 77		Tang. 77	Sin. 77	

Tang. 13	1'	Colang. 13	Co sin. 13	1'
9.363364		0.636636	9.988724	60
9.363940	9.58	0.636060	9.988695	59
9.364515		0.635485	9.988666	58
9.365090		0.634910	9.988636	57
9.365664		0.634336	9.988607	56
9.366237		0.633763	9.988578	55
9.366810	9.52	0.633190	9.988548	54
9.367382		0.632618	9.988519	53
9.367953		0.632047	9.988489	52
9.368524		0.631476	9.988460	51
9.369094		0.630906	9.988430	50
9.369663	9.46	0.630337	9.988401	49
9.370232		0.629768	9.988371	48
9.370799		0.629201	9.988342	47
9.371367		0.628633	9.988312	46
9.371933	9.41	0.628067	9.988282	45
9.372499		0.627501	9.988252	44
9.373064		0.626936	9.988223	43
9.373629	9.36	0.626371	9.988193	42
9.374193		0.625807	9.988163	41
9.374756		0.625244	9.988133	40
9.375319	9.30	0.624681	9.988103	39
9.375881		0.624119	9.988073	38
9.376442		0.623558	9.988043	37
9.377003		0.622997	9.988013	36
9.377563		0.622437	9.987983	35
9.378122	9.25	0.621878	9.987953	34
9.378681		0.621319	9.987922	33
9.379239		0.620761	9.987892	32
9.379797		0.620203	9.987862	31
9.380354	9.20	0.619646	9.987832	30
9.380910		0.619090	9.987801	29
9.381466		0.618534	9.987771	28
9.382020	9.14	0.617980	9.987740	27
9.382575		0.617425	9.987710	26
9.383129		0.616871	9.987679	25
9.383682		0.616318	9.987649	24
9.384234	9.09	0.615766	9.987618	23
9.384786		0.615214	9.987588	22
9.385337		0.614663	9.987557	21
9.385888		0.614112	9.987526	20
9.386438	9.04	0.613562	9.987496	19
9.386987		0.613013	9.987465	18
9.387536		0.612464	9.987434	17
9.388084		0.611916	9.987403	16
9.388631	8.99	0.611369	9.987372	15
9.389178		0.610822	9.987341	14
9.389724		0.610276	9.987310	13
9.390270	8.94	0.609730	9.987279	12
9.390815		0.609185	9.987248	11
9.391360		0.608640	9.987217	10
9.391903		0.608097	9.987186	9
9.392447	8.89	0.607553	9.987155	8
9.392989		0.607011	9.987124	7
9.393531		0.606469	9.987092	6
9.394073		0.605927	9.987061	5
9.394614	8.84	0.605386	9.987030	4
9.395154		0.604846	9.986998	3
9.395694		0.604306	9.986967	2
9.396233		0.603767	9.986936	1
9.396771		0.603229	9.986904	0
Colang. 76		Tang. 76	Sin. 76	1



R	Tang. 15	R	Coang. 15	Coas. 15	R
13998	9.428052	8.40	0.571948	9.984944	60
13997	9.428558		0.571442	9.984910	59
13996	9.429062		0.570938	9.984876	58
13995	9.429566		0.570434	9.984842	57
13994	9.430070		0.569930	9.984808	56
13993	9.430573		0.569427	9.984774	55
13992	9.431075		0.568925	9.984740	54
13991	9.431577	8.30	0.568423	9.984706	53
13990	9.432079		0.567921	9.984672	52
13989	9.432580		0.567420	9.984638	51
13988	9.433080		0.566920	9.984603	50
13987	9.433580	8.32	0.566420	9.984569	49
13986	9.434080		0.565920	9.984535	48
13985	9.434579		0.565421	9.984500	47
13984	9.435078		0.564922	9.984466	46
13983	9.435576		0.564424	9.984432	45
13982	9.436073	8.28	0.563927	9.984397	44
13981	9.436570		0.563430	9.984363	43
13980	9.437067		0.562933	9.984328	42
13979	9.437563		0.562437	9.984294	41
13978	9.438059		0.561941	9.984259	40
13977	9.438554	8.23	0.561446	9.984224	39
13976	9.439048		0.560952	9.984190	38
13975	9.439543		0.560457	9.984155	37
13974	9.440036		0.559964	9.984120	36
13973	9.440529		0.559471	9.984085	35
13972	9.441022	8.20	0.558978	9.984050	34
13971	9.441514		0.558486	9.984015	33
13970	9.442006		0.557994	9.983981	32
13969	9.442497		0.557503	9.983946	31
13968	9.442988		0.557012	9.983911	30
13967	9.443479	8.16	0.556521	9.983875	29
13966	9.443968		0.556032	9.983840	28
13965	9.444458		0.555542	9.983805	27
13964	9.444947		0.555053	9.983770	26
13963	9.445435		0.554565	9.983735	25
13962	9.445923	8.12	0.554077	9.983700	24
13961	9.446411		0.553589	9.983664	23
13960	9.446898		0.553102	9.983629	22
13959	9.447384		0.552616	9.983594	21
13958	9.447870		0.552130	9.983558	20
13957	9.448356	8.08	0.551644	9.983523	19
13956	9.448841		0.551159	9.983487	18
13955	9.449326		0.550674	9.983452	17
13954	9.449810		0.550190	9.983416	16
13953	9.450294		0.549706	9.983381	15
13952	9.450777	8.04	0.549223	9.983345	14
13951	9.451260		0.548740	9.983309	13
13950	9.451743		0.548257	9.983273	12
13949	9.452225		0.547775	9.983238	11
13948	9.452706		0.547294	9.983202	10
13947	9.453187	8.00	0.546813	9.983166	9
13946	9.453668		0.546332	9.983130	8
13945	9.454148		0.545852	9.983094	7
13944	9.454628		0.545372	9.983058	6
13943	9.455107		0.544893	9.983022	5
13942	9.455586	7.96	0.544414	9.982986	4
13941	9.456064		0.543936	9.982950	3
13940	9.456542		0.543458	9.982914	2
13939	9.457019		0.542981	9.982878	1
13938	9.457496		0.542504	9.982842	0
74	Coang. 74		Tang. 74	sis. 74	7

<i>i</i>	Sin. 16	<i>i'</i>	Tang. 16	<i>i'</i>	Cotang. 16	Cosin. 16	<i>i'</i>
0	9.440338		9.457496		0.542504	9.982842	
1	9.440778	7.32	9.457973	7.93	0.542027	9.982805	0.01
2	9.441218		9.458449		0.541551	9.982769	
3	9.441658		9.458925		0.541075	9.982733	
4	9.442096		9.459400		0.540600	9.982696	
5	9.442535		9.459875		0.540125	9.982660	
6	9.442973	7.28	9.460349	7.89	0.539651	9.982624	
7	9.443410		9.460823		0.539177	9.982587	
8	9.443847		9.461297		0.538703	9.982551	
9	9.444284		9.461770		0.538230	9.982514	
10	9.444720		9.462242		0.537758	9.982477	
11	9.445155	7.23	9.462715	7.86	0.537285	9.982441	
12	9.445590		9.463186		0.536814	9.982404	
13	9.446025		9.463658		0.536342	9.982367	
14	9.446459		9.464128		0.535872	9.982331	
15	9.446893		9.464599		0.535401	9.982294	
16	9.447326	7.20	9.465069	7.82	0.534931	9.982257	0.02
17	9.447759		9.465539		0.534461	9.982220	
18	9.448191		9.466008		0.533992	9.982183	
19	9.448623		9.466477		0.533523	9.982146	
20	9.449054		9.466945		0.533055	9.982109	
21	9.449485	7.17	9.467413	7.78	0.532587	9.982072	
22	9.449915		9.467880		0.532120	9.982035	
23	9.450345		9.468347		0.531653	9.981998	
24	9.450775		9.468814		0.531186	9.981961	
25	9.451204		9.469280		0.530720	9.981924	
26	9.451632	7.13	9.469746	7.75	0.530254	9.981886	
27	9.452060		9.470211		0.529789	9.981849	
28	9.452488		9.470676		0.529324	9.981812	
29	9.452915		9.471141		0.528859	9.981774	
30	9.453342		9.471605		0.528395	9.981737	
31	9.453768	7.09	9.472069	7.71	0.527931	9.981700	0.03
32	9.454194		9.472532		0.527468	9.981662	
33	9.454619		9.472995		0.527005	9.981625	
34	9.455044		9.473457		0.526543	9.981587	
35	9.455469		9.473919		0.526081	9.981549	
36	9.455893	7.05	9.474381	7.68	0.525619	9.981512	
37	9.456316		9.474842		0.525155	9.981474	
38	9.456739		9.475303		0.524697	9.981436	
39	9.457162		9.475763		0.524237	9.981399	
40	9.457584		9.476223		0.523777	9.981361	
41	9.458000	7.01	9.476683	7.65	0.523317	9.981323	
42	9.458427		9.477142		0.522858	9.981285	
43	9.458848		9.477601		0.522399	9.981247	
44	9.459268		9.478059		0.521941	9.981209	
45	9.459688		9.478517		0.521483	9.981171	
46	9.460108	6.98	9.478975	7.61	0.521025	9.981133	
47	9.460527		9.479432		0.520568	9.981095	
48	9.460946		9.479889		0.520111	9.981057	
49	9.461364		9.480345		0.519655	9.981019	
50	9.461782		9.480801		0.519199	9.980981	
51	9.462199	6.94	9.481257	7.58	0.518743	9.980942	0.04
52	9.462615		9.481712		0.518288	9.980904	
53	9.463032		9.482167		0.517833	9.980866	
54	9.463448		9.482621		0.517379	9.980827	
55	9.463864		9.483075		0.516925	9.980789	
56	9.464279		9.483529		0.516471	9.980750	
57	9.464694	6.90	9.483982	7.55	0.516018	9.980712	
58	9.465108		9.484435		0.515565	9.980673	
59	9.465522		9.484887		0.515113	9.980635	
60	9.465935		9.485339		0.514661	9.980596	
	Cosin. 73		Cotang. 73		Tang. 73	Sin. 73	

<i>l</i>	Sin. <i>l</i>	4-685	Tang. <i>l</i>	Cotang. <i>l</i>	Cosin. <i>l</i>		
0	8.241855	553	619	8.241921	1.758079	9.999934	60
1	8.249033	552	620	8.249102	1.750898	9.999932	59
2	8.256094	551	622	8.256165	1.743835	9.999929	58
3	8.263042	550	623	8.263115	1.736885	9.999927	57
4	8.269881	550	625	8.269956	1.730044	9.999925	56
5	8.276614	549	626	8.276691	1.723309	9.999922	55
6	8.283243	548	628	8.283323	1.716677	9.999920	54
7	8.289773	547	630	8.289856	1.710144	9.999918	53
8	8.296207	546	631	8.296292	1.703708	9.999915	52
9	8.302546	546	633	8.302634	1.697366	9.999913	51
10	8.308794	545	635	8.308884	1.691116	9.999910	50
11	8.314954	544	636	8.315046	1.684954	9.999907	49
12	8.321027	543	638	8.321122	1.678878	9.999905	48
13	8.327016	542	640	8.327114	1.672886	9.999902	47
14	8.332924	541	641	8.333025	1.666975	9.999899	46
15	8.338753	540	643	8.338856	1.661144	9.999897	45
16	8.344504	539	645	8.344610	1.655390	9.999894	44
17	8.350181	539	647	8.350289	1.649711	9.999891	43
18	8.355783	538	649	8.355895	1.644105	9.999888	42
19	8.361315	537	651	8.361430	1.638570	9.999885	41
20	8.366777	536	653	8.366895	1.633105	9.999882	40
21	8.372171	535	655	8.372292	1.627708	9.999879	39
22	8.377499	534	657	8.377622	1.622378	9.999876	38
23	8.382762	533	659	8.382889	1.617111	9.999873	37
24	8.387962	532	661	8.388092	1.611908	9.999870	36
25	8.393101	531	663	8.393234	1.606766	9.999867	35
26	8.398179	530	665	8.398315	1.601685	9.999864	34
27	8.403199	528	667	8.403338	1.596662	9.999861	33
28	8.408161	527	669	8.408304	1.591696	9.999858	32
29	8.413068	526	671	8.413213	1.586787	9.999854	31
30	8.417919	525	673	8.418068	1.581932	9.999851	30
31	8.422717	524	675	8.422869	1.577131	9.999848	29
32	8.427462	523	677	8.427618	1.572382	9.999844	28
33	8.432156	522	679	8.432315	1.567685	9.999841	27
34	8.436800	521	681	8.436962	1.563038	9.999838	26
35	8.441394	520	684	8.441560	1.558440	9.999834	25
36	8.445941	518	686	8.446110	1.553890	9.999831	24
37	8.450440	517	689	8.450613	1.549387	9.999827	23
38	8.454893	516	692	8.455070	1.544930	9.999824	22
39	8.459301	515	694	8.459481	1.540519	9.999820	21
40	8.463665	514	697	8.463849	1.536151	9.999816	20
41	8.467985	512	700	8.468172	1.531828	9.999813	19
42	8.472263	511	702	8.472454	1.527546	9.999809	18
43	8.476498	510	705	8.476693	1.523307	9.999805	17
44	8.480693	509	707	8.480892	1.519108	9.999801	16
45	8.484848	507	710	8.485050	1.514950	9.999797	15
46	8.488963	506	712	8.489170	1.510830	9.999794	14
47	8.493040	505	715	8.493250	1.506750	9.999790	13
48	8.497078	504	717	8.497293	1.502707	9.999786	12
49	8.501080	502	720	8.501298	1.498702	9.999782	11
50	8.505045	501	723	8.505267	1.494733	9.999778	10
51	8.508974	500	725	8.509200	1.490800	9.999774	9
52	8.512867	498	728	8.513098	1.486902	9.999769	8
53	8.516726	497	731	8.516961	1.483039	9.999765	7
54	8.520551	495	733	8.520790	1.479210	9.999761	6
55	8.524343	494	736	8.524586	1.475414	9.999757	5
56	8.528102	493	739	8.528349	1.471651	9.999753	4
57	8.531828	491	742	8.532080	1.467920	9.999748	3
58	8.535523	490	745	8.535779	1.464221	9.999744	2
59	8.539186	488	748	8.539447	1.460553	9.999740	1
60	8.542819	487	751	8.543084	1.456916	9.999735	0
	Cosin. 88			Cotang. 88	Tang. 88	Sin. 88	1

1	Sin. 2	4.685	Tang. 2	Cotang. 2	Cosin. 2			
0	8.542819	487	751	8.543084	1.456016	9.999735	60	
1	8.546422	485	754	8.546691	1.453309	9.999731	59	
2	8.549995	484	757	8.550268	1.449732	9.999726	58	
3	8.553539	482	760	8.553817	1.446183	9.999722	57	
4	8.557054	481	763	8.557336	1.442664	9.999717	56	
5	8.560540	479	766	8.560828	1.439172	9.999713	55	
6	8.563999	478	769	8.564291	1.435709	9.999708	54	
7	8.567431	476	772	8.567727	1.432273	9.999704	53	
8	8.570836	475	776	8.571137	1.428863	9.999699	52	
9	8.574214	473	779	8.574520	1.425480	9.999694	51	
10	8.577566	471	782	8.577877	1.422123	9.999689	50	
11	8.580892	470	785	8.581208	1.418792	9.999685	49	
12	8.584193	468	788	8.584514	1.415486	9.999680	48	
13	8.587469	466	792	8.587795	1.412205	9.999675	47	
14	8.590721	465	795	8.591051	1.408949	9.999670	46	
15	8.593948	463	798	8.594283	1.405717	9.999665	45	
16	8.597152	461	802	8.597492	1.402508	9.999660	44	
17	8.600332	460	805	8.600677	1.399323	9.999655	43	
18	8.603489	458	808	8.603839	1.396161	9.999650	42	
19	8.606623	456	812	8.606978	1.393022	9.999645	41	
20	8.609734	455	815	8.610094	1.389906	9.999640	40	
21	8.612823	453	819	8.613189	1.386811	9.999635	39	
22	8.615891	451	822	8.616262	1.383738	9.999629	38	
23	8.618937	450	826	8.619313	1.380687	9.999624	37	
24	8.621962	448	829	8.622343	1.377657	9.999619	36	
25	8.624965	446	832	8.625352	1.374648	9.999614	35	
26	8.627948	444	835	8.628340	1.371660	9.999608	34	
27	8.630911	442	839	8.631308	1.368692	9.999603	33	
28	8.633854	441	843	8.634256	1.365744	9.999597	32	
29	8.636776	439	847	8.637184	1.362816	9.999592	31	
30	8.639680	437	851	8.640093	1.359907	9.999586	30	
31	8.642563	435	854	8.642982	1.357018	9.999581	29	
32	8.645428	434	858	8.645853	1.354147	9.999575	28	
33	8.648274	432	862	8.648704	1.351296	9.999570	27	
34	8.651102	430	866	8.651537	1.348463	9.999564	26	
35	8.653911	428	869	8.654352	1.345648	9.999558	25	
36	8.656702	426	873	8.657149	1.342851	9.999553	24	
37	8.659475	424	877	8.659928	1.340072	9.999547	23	
38	8.662230	422	881	8.662689	1.337311	9.999541	22	
39	8.664968	420	885	8.665433	1.334567	9.999535	21	
40	8.667689	418	889	8.668160	1.331840	9.999529	20	
41	8.670393	416	892	8.670870	1.329130	9.999524	19	
42	8.673080	414	896	8.673563	1.326437	9.999518	18	
43	8.675751	412	900	8.676239	1.323761	9.999512	17	
44	8.678405	410	904	8.678900	1.321100	9.999506	16	
45	8.681043	408	908	8.681544	1.318456	9.999500	15	
46	8.683665	406	912	8.684172	1.315828	9.999493	14	
47	8.686272	404	916	8.686784	1.313216	9.999487	13	
48	8.688863	402	920	8.689381	1.310619	9.999481	12	
49	8.691438	400	925	8.691963	1.308037	9.999475	11	
50	8.693998	398	929	8.694529	1.305471	9.999469	10	
51	8.696543	396	933	8.697081	1.302919	9.999463	9	
52	8.699073	394	937	8.699617	1.300383	9.999456	8	
53	8.701589	392	942	8.702139	1.297861	9.999450	7	
54	8.704090	390	946	8.704646	1.295354	9.999443	6	
55	8.706577	387	950	8.707140	1.292860	9.999437	5	
56	8.709049	385	955	8.709618	1.290382	9.999431	4	
57	8.711507	383	959	8.712083	1.287917	9.999424	3	
58	8.713952	381	963	8.714534	1.285465	9.999418	2	
59	8.716383	379	968	8.716972	1.283028	9.999411	1	
60	8.718800	376	972	8.719396	1.280604	9.999404	0	
	Cosin. 87			Cotang. 87		Tang. 87	Sin. 87	1

<i>f</i>	Sin. 3	<i>f</i>	Tang. 3	<i>f</i>	Cotang. 3	Cosin. 3	<i>f</i>
0	8.718800		8.719396		1.280604	9.999404	60
1	8.721204		8.721806		1.278194	9.999398	59
2	8.723595	39.63	8.724204	39.74	1.275796	9.999391	58
3	8.725972		8.726588		1.273412	9.999384	57
4	8.728337		8.728959		1.271041	9.999378	56
5	8.730688		8.731317		1.268683	9.999371	55
6	8.733027	38.57	8.733663	38.68	1.266337	9.999364	54
7	8.735354		8.735996		1.264004	9.999357	53
8	8.737667		8.738317		1.261683	9.999350	52
9	8.739969		8.740626		1.259374	9.999343	51
10	8.742259		8.742922		1.257078	9.999336	50
11	8.744536	37.56	8.745207	37.68	1.254793	9.999329	49
12	8.746802		8.747479		1.252521	9.999322	48
13	8.749055		8.749740		1.250260	9.999315	47
14	8.751297		8.751989		1.248011	9.999308	46
15	8.753528		8.754227		1.245773	9.999301	45
16	8.755747	36.61	8.756453	36.73	1.243547	9.999294	44
17	8.757955		8.758668		1.241332	9.999287	43
18	8.760151		8.760872		1.239128	9.999279	42
19	8.762337		8.763065		1.236935	9.999272	41
20	8.764511		8.765246		1.234754	9.999265	40
21	8.766675	35.71	8.767417	35.83	1.232583	9.999257	39
22	8.768828		8.769578		1.230422	9.999250	38
23	8.770970		8.771727		1.228273	9.999242	37
24	8.773101		8.773866		1.226134	9.999235	36
25	8.775223		8.775995		1.224005	9.999227	35
26	8.777333	34.84	8.778114	34.97	1.221886	9.999220	34
27	8.779434		8.780222		1.219778	9.999212	33
28	8.781524		8.782320		1.217680	9.999205	32
29	8.783605		8.784408		1.215592	9.999197	31
30	8.785675		8.786486		1.213514	9.999189	30
31	8.787736	34.02	8.788554	34.15	1.211446	9.999181	29
32	8.789787		8.790613		1.209387	9.999174	28
33	8.791828		8.792662		1.207338	9.999166	27
34	8.793859		8.794701		1.205299	9.999158	26
35	8.795881		8.796731		1.203269	9.999150	25
36	8.797894	33.24	8.798752	33.34	1.201248	9.999142	24
37	8.799897		8.800763		1.199237	9.999134	23
38	8.801892		8.802765		1.197235	9.999126	22
39	8.803876		8.804754		1.195242	9.999118	21
40	8.805852		8.806742		1.193258	9.999110	20
41	8.807819	32.49	8.808717	32.62	1.191283	9.999102	19
42	8.809777		8.810683		1.189317	9.999094	18
43	8.811726		8.812641		1.187359	9.999086	17
44	8.813667		8.814589		1.185411	9.999077	16
45	8.815599		8.816529		1.183471	9.999069	15
46	8.817522	31.77	8.818461	31.91	1.181539	9.999061	14
47	8.819436		8.820384		1.179616	9.999053	13
48	8.821343		8.822298		1.177702	9.999044	12
49	8.823240		8.824205		1.175795	9.999036	11
50	8.825130		8.826103		1.173897	9.999027	10
51	8.827011	31.09	8.827992	31.23	1.172008	9.999019	9
52	8.828884		8.829874		1.170126	9.999010	8
53	8.830749		8.831748		1.168252	9.999002	7
54	8.832607		8.833613		1.166387	9.998993	6
55	8.834456		8.835471		1.164529	9.998984	5
56	8.836297	30.43	8.837321	30.58	1.162679	9.998976	4
57	8.838130		8.839163		1.160837	9.998967	3
58	8.839956		8.840998		1.159002	9.998958	2
59	8.841774		8.842825		1.157175	9.998950	1
60	8.843585		8.844644		1.155356	9.998941	0
	Cosin. 86		Cotang. 86		Tang. 86	Sin. 86	1

f	Sin. 4	1"	Tang. 4	1"	Cotang. 4	Costa. 4	1"	
0	8.843583		8.844644		1.153356	9.998941		60
1	8.845387		8.846455		1.153545	9.998932		59
2	8.847183	29.80	8.848260	29.95	1.151740	9.998923	00.15	58
3	8.848971		8.850057		1.149943	9.998914		57
4	8.850751		8.851846		1.148154	9.998905		56
5	8.852525		8.853628		1.146372	9.998896		55
6	8.854291	29.19	8.855403	29.35	1.144597	9.998887		54
7	8.856049		8.857171		1.142829	9.998878		53
8	8.857801		8.858932		1.141068	9.998869		52
9	8.859546		8.860686		1.139314	9.998860		51
10	8.861283		8.862433		1.137567	9.998851		50
11	8.863014	28.62	8.864173	28.77	1.135827	9.998841		49
12	8.864738		8.865906		1.134094	9.998832		48
13	8.866455		8.867632		1.132368	9.998823		47
14	8.868165		8.869351		1.130649	9.998813		46
15	8.869868		8.871064		1.128936	9.998804		45
16	8.871565	28.06	8.872770	28.22	1.127230	9.998795	00.18	44
17	8.873255		8.874469		1.125531	9.998785		43
18	8.874938		8.876162		1.123838	9.998776		42
19	8.876615		8.877849		1.122151	9.998766		41
20	8.878285		8.879529		1.120471	9.998757		40
21	8.879949	27.52	8.881202	27.68	1.118798	9.998747		39
22	8.881607		8.882869		1.117131	9.998738		38
23	8.883258		8.884530		1.115470	9.998728		37
24	8.884903		8.886185		1.113815	9.998718		36
25	8.886542		8.887833		1.112167	9.998708		35
26	8.888174	27.00	8.889476	27.17	1.110524	9.998699		34
27	8.889801		8.891112		1.108888	9.998689		33
28	8.891421		8.892742		1.107258	9.998679		32
29	8.893035		8.894366		1.105634	9.998669		31
30	8.894643		8.895984		1.104016	9.998659		30
31	8.896246	26.51	8.897596	26.68	1.102404	9.998649	00.17	29
32	8.897842		8.899203		1.100797	9.998639		28
33	8.899432		8.900803		1.099197	9.998629		27
34	8.901017		8.902398		1.097602	9.998619		26
35	8.902596		8.903987		1.096013	9.998609		25
36	8.904169	26.03	8.905570	26.20	1.094430	9.998599	00.17	24
37	8.905736		8.907147		1.092853	9.998589		23
38	8.907297		8.908719		1.091281	9.998578		22
39	8.908853		8.910285		1.089715	9.998568		21
40	8.910404		8.911846		1.088154	9.998558		20
41	8.911949	25.56	8.913401	25.74	1.086599	9.998548		19
42	8.913488		8.914951		1.085049	9.998537		18
43	8.915022		8.916495		1.083505	9.998527		17
44	8.916550		8.918034		1.081966	9.998516		16
45	8.918073		8.919568		1.080432	9.998506		15
46	8.919591	25.12	8.921096	25.29	1.078904	9.998495	00.18	14
47	8.921103		8.922619		1.077381	9.998485		13
48	8.922610		8.924136		1.075864	9.998474		12
49	8.924112		8.925649		1.074351	9.998464		11
50	8.925609		8.927156		1.072844	9.998453		10
51	8.927100	24.69	8.928658	24.87	1.071342	9.998442		9
52	8.928587		8.930155		1.069845	9.998431		8
53	8.930068		8.931647		1.068353	9.998421		7
54	8.931544		8.933134		1.066866	9.998410		6
55	8.933015		8.934616		1.065384	9.998399		5
56	8.934481	24.27	8.936093	24.45	1.063907	9.998388		4
57	8.935942		8.937565		1.062435	9.998377		3
58	8.937398		8.939032		1.060968	9.998366		2
59	8.938850		8.940494		1.059506	9.998355		1
60	8.940296		8.941952		1.058048	9.998344		0
	Co-in. 85		Cotang. 85		Tang. 85		Sin. 85	1

I	Sin. 5	I'	Tang. 5	I'	Cotang. 5	Cosin. 5	I'	
0	8.940296		8.941952		1.058048	9.998344		60
1	8.941738	23.87	8.943404	24.05	1.056596	9.998333	00.18	59
2	8.943174		8.944852		1.055148	9.998322		58
3	8.944606		8.946295		1.053705	9.998311		57
4	8.946034		8.947734		1.052266	9.998300		56
5	8.947456		8.949168		1.050832	9.998289		55
6	8.948874	23.48	8.950597	23.66	1.049403	9.998277	00.19	54
7	8.950287		8.952021		1.047979	9.998266		53
8	8.951696		8.953441		1.046559	9.998255		52
9	8.953100		8.954856		1.045144	9.998243		51
10	8.954499		8.956267		1.043733	9.998232		50
11	8.955894	23.10	8.957674	23.29	1.042326	9.998220	00.20	49
12	8.957284		8.959075		1.040925	9.998209		48
13	8.958670		8.960473		1.039527	9.998197		47
14	8.960052		8.961866		1.038134	9.998186		46
15	8.961429		8.963255		1.036745	9.998174		45
16	8.962801	22.73	8.964639	22.93	1.035361	9.998163	00.21	44
17	8.964170		8.966019		1.033981	9.998151		43
18	8.965534		8.967394		1.032606	9.998139		42
19	8.966893		8.968766		1.031234	9.998128		41
20	8.968249		8.970133		1.029867	9.998116		40
21	8.969600	22.38	8.971496	22.58	1.028504	9.998104	00.22	39
22	8.970947		8.972855		1.027145	9.998092		38
23	8.972289		8.974209		1.025791	9.998080		37
24	8.973628		8.975560		1.024440	9.998068		36
25	8.974962		8.976906		1.023094	9.998056		35
26	8.976293	22.04	8.978248	22.24	1.021752	9.998044	00.23	34
27	8.977619		8.979586		1.020414	9.998032		33
28	8.978941		8.980921		1.019079	9.998020		32
29	8.980259		8.982251		1.017749	9.998008		31
30	8.981573		8.983577		1.016423	9.997996		30
31	8.982883	21.70	8.984899	21.91	1.015101	9.997984	00.24	29
32	8.984189		8.986217		1.013783	9.997972		28
33	8.985491		8.987532		1.012468	9.997959		27
34	8.986789		8.988842		1.011158	9.997947		26
35	8.988083		8.990149		1.009851	9.997935		25
36	8.989374	21.38	8.991451	21.58	1.008549	9.997922	00.25	24
37	8.990660		8.992750		1.007250	9.997910		23
38	8.991943		8.994045		1.005955	9.997897		22
39	8.993222		8.995337		1.004663	9.997885		21
40	8.994497		8.996624		1.003376	9.997872		20
41	8.995768	21.06	8.997908	21.28	1.002092	9.997860	00.26	19
42	8.997036		8.999188		1.000812	9.997847		18
43	8.998299		9.000465		0.999535	9.997835		17
44	8.999560		9.001738		0.998262	9.997822		16
45	9.000816		9.003007		0.996993	9.997809		15
46	9.002069	20.76	9.004272	20.97	0.995728	9.997797	00.27	14
47	9.003318		9.005534		0.994466	9.997784		13
48	9.004563		9.006792		0.993208	9.997771		12
49	9.005805		9.008047		0.991953	9.997758		11
50	9.007044		9.009298		0.990702	9.997745		10
51	9.008278	20.46	9.010546	20.68	0.989454	9.997732	00.28	9
52	9.009510		9.011790		0.988210	9.997719		8
53	9.010737		9.013031		0.986969	9.997706		7
54	9.011962		9.014268		0.985732	9.997693		6
55	9.013182		9.015502		0.984498	9.997680		5
56	9.014400	20.18	9.016732	20.39	0.983268	9.997667	00.29	4
57	9.015613		9.017959		0.982041	9.997654		3
58	9.016824		9.019183		0.980817	9.997641		2
59	9.018031		9.020403		0.979597	9.997628		1
60	9.019235		9.021620		0.978380	9.997614		0
	Cosin. 84		Cotang. 84		Tang. 84	Sin. 84		.1

I	Sin. 22	I ^r	Tang. 22	I ^r	Tang. 22	Cor. 22	I ^r
0	9.572575		9.606410		0.393590	9.967166	60
1	9.573888	5.20	9.606773	6.05	0.393227	9.967115	59
2	9.574200		9.607137		0.392863	9.967064	58
3	9.574512		9.607500		0.392500	9.967013	57
4	9.574824		9.607863		0.392137	9.966961	56
5	9.575136		9.608225		0.391775	9.966910	55
6	9.575447	5.18	9.608588	6.04	0.391412	9.966859	54
7	9.575758		9.608950		0.391050	9.966808	53
8	9.576069		9.609312		0.390688	9.966756	52
9	9.576379		9.609674		0.390326	9.966705	51
10	9.576689		9.610036		0.389964	9.966653	50
11	9.576999	5.16	9.610397	6.02	0.389603	9.966602	49
12	9.577309		9.610759		0.389241	9.966550	48
13	9.577618		9.611120		0.388880	9.966499	47
14	9.577927		9.611480		0.388520	9.966447	46
15	9.578236		9.611841		0.388159	9.966395	45
16	9.578545	5.14	9.612201	6.00	0.387799	9.966344	44
17	9.578853		9.612		0.387439	9.966292	43
18	9.579162				0.387079	9.966240	42
19	9.579470				0.386719	9.966188	41
20	9.579777				0.386359	9.966136	40
21	9.580085	5.12	9.61	5.98	0.386000	9.966085	39
22	9.580392				0.385641	9.966033	38
23	9.580699				0.385282	9.965981	37
24	9.581005				0.384923	9.965929	36
25	9.581312				0.384565	9.965876	35
26	9.581618	5.09		5.96	0.384207	9.965824	34
27	9.581924				0.383849	9.965772	33
28	9.582229				0.383491	9.965720	32
29	9.582535				0.383133	9.965668	31
30	9.582840				0.382776	9.965615	30
31	9.583145	5.07	9.6	5.95	0.382418	9.965563	29
32	9.583449				0.382061	9.965511	28
33	9.583754				0.381703	9.965458	27
34	9.584058				0.381348	9.965406	26
35	9.584361				0.380992	9.965353	25
36	9.584665	5.05	9.619364	5.93	0.380636	9.965301	24
37	9.584969		9.619720		0.380280	9.965248	23
38	9.585272		9.620076		0.379924	9.965195	22
39	9.585574		9.620432		0.379568	9.965143	21
40	9.585877		9.620787		0.379213	9.965090	20
41	9.586179	5.03	9.621142	5.91	0.378858	9.965037	19
42	9.586482		9.621497		0.378503	9.964984	18
43	9.586783		9.621852		0.378148	9.964931	17
44	9.587083		9.622207		0.377793	9.964879	16
45	9.587386		9.622561		0.377439	9.964826	15
46	9.587688	5.01	9.622915	5.90	0.377085	9.964773	14
47	9.587989		9.623269		0.376731	9.964720	13
48	9.588289		9.623623		0.376377	9.964666	12
49	9.588590		9.623976		0.376024	9.964613	11
50	9.588890	4.99	9.624330	5.88	0.375670	9.964560	10
51	9.589190		9.624683		0.375317	9.964507	9
52	9.589489		9.625036		0.374964	9.964454	8
53	9.589789		9.625388		0.374612	9.964400	7
54	9.590088	4.97	9.625741	5.86	0.374259	9.964347	6
55	9.590387		9.626093		0.373907	9.964294	5
56	9.590686		9.626445		0.373555	9.964240	4
57	9.590984		9.626797		0.373203	9.964187	3
58	9.591282		9.627149		0.372851	9.964133	
59	9.591580		9.627501		0.372499	9.964080	
60	9.591878		9.627852		0.372148	9.964026	
	Cont. 67		Cont. 67		Tang. 67	Sin. 67	

<i>I</i>	Sin. 7	<i>I</i> ^o	Tang. 7	<i>I</i> ^o	Cotang. 7	Cosin. 7	<i>I</i> ^o
0	9.085894		9.089144		0.910856	9.996751	60
1	9.086922	17.05	9.090187	17.31	0.909813	9.996735	59
2	9.087947		9.091228		0.908772	9.996720	58
3	9.088970		9.092266		0.907734	9.996704	57
4	9.089990		9.093302		0.906698	9.996688	56
5	9.091008		9.094336		0.905664	9.996673	55
6	9.092024	16.85	9.095367	17.11	0.904633	9.996657	54
7	9.093037		9.096395		0.903605	9.996641	53
8	9.094047		9.097422		0.902578	9.996625	52
9	9.095056		9.098446		0.901554	9.996610	51
10	9.096062	16.65	9.099468	16.91	0.900532	9.996594	50
11	9.097065		9.100487		0.899513	9.996578	49
12	9.098066		9.101504		0.898496	9.996562	48
13	9.099065	16.45	9.102519	16.72	0.897481	9.996546	47
14	9.100062		9.103532		0.896468	9.996530	46
15	9.101056		9.104542		0.895458	9.996514	45
16	9.102048	16.25	9.105550	16.98	0.894450	9.996498	44
17	9.103037		9.106556		0.893444	9.996482	43
18	9.104025		9.107559		0.892441	9.996465	42
19	9.105010	16.05	9.108560	16.54	0.891440	9.996449	41
20	9.105992		9.109559		0.890441	9.996433	40
21	9.106973	15.85	9.110556	16.34	0.889444	9.996417	39
22	9.107951		9.111551		0.888449	9.996400	38
23	9.108927		9.112543		0.887457	9.996384	37
24	9.109901	15.65	9.113533	16.14	0.886467	9.996368	36
25	9.110873		9.114521		0.885479	9.996351	35
26	9.111842	15.45	9.115507	16.34	0.884493	9.996335	34
27	9.112809		9.116491		0.883509	9.996318	33
28	9.113774	15.25	9.117472	16.54	0.882528	9.996302	32
29	9.114737		9.118452		0.881548	9.996285	31
30	9.115698		9.119429		0.880571	9.996269	30
31	9.116656	15.05	9.120404	16.74	0.879596	9.996252	29
32	9.117613		9.121377		0.878623	9.996235	28
33	9.118567	14.85	9.122348	16.94	0.877652	9.996219	27
34	9.119519		9.123317		0.876683	9.996202	26
35	9.120469		9.124284		0.875716	9.996185	25
36	9.121417	14.65	9.125249	17.14	0.874751	9.996168	24
37	9.122362		9.126211		0.873789	9.996151	23
38	9.123306		9.127172		0.872828	9.996134	22
39	9.124248	14.45	9.128130	17.34	0.871870	9.996117	21
40	9.125187		9.129087		0.870913	9.996100	20
41	9.126125	14.25	9.130041	17.54	0.869959	9.996083	19
42	9.127060		9.130994		0.869006	9.996066	18
43	9.127993	14.05	9.131944	17.74	0.868056	9.996049	17
44	9.128925		9.132893		0.867107	9.996032	16
45	9.129854		9.133839		0.866161	9.996015	15
46	9.130781	13.85	9.134784	17.94	0.865216	9.995998	14
47	9.131706		9.135726		0.864274	9.995980	13
48	9.132630	13.65	9.136667	18.14	0.863333	9.995963	12
49	9.133551		9.137605		0.862395	9.995946	11
50	9.134470		9.138542		0.861458	9.995928	10
51	9.135387	13.45	9.139476	18.34	0.860524	9.995911	9
52	9.136303		9.140409		0.859591	9.995894	8
53	9.137216	13.25	9.141340	18.54	0.858660	9.995876	7
54	9.138128		9.142269		0.857731	9.995859	6
55	9.139037		9.143196		0.856804	9.995841	5
56	9.139944	13.05	9.144121	18.74	0.855879	9.995823	4
57	9.140850		9.145044		0.854956	9.995806	3
58	9.141754	12.85	9.145966	18.94	0.854034	9.995788	2
59	9.142655		9.146885		0.853115	9.995771	1
60	9.143555	12.65	9.147803	19.14	0.852197	9.995753	0
	Cosin. 82		Cotang. 82		Tang. 82	Sin. 82	1

r	Sin. 24	r	Tang. 24	r	Cotang. 24	Cosin. 24	r
0	9.60313		9.648583		0.351417	9.960730	60
1	9.603597	4.72	9.648923	5.66	0.351077	9.960674	59
2	9.603880		9.649263		0.350737	9.960618	58
3	9.610164		9.649602		0.350398	9.960561	57
4	9.610447		9.649942		0.350058	9.960505	56
5	9.610729		9.650281		0.349719	9.960448	55
6	9.611012	4.70	6.650620	5.64	0.349380	9.960392	54
7	9.611294		9.650959		0.349041	9.960335	53
8	9.611576		9.651297		0.348703	9.960279	52
9	9.611858		9.651636		0.348364	9.960222	51
10	9.612140		9.651974		0.348026	9.960165	50
11	9.612421	4.68	9.652312	5.63	0.347688	9.960109	49
12	9.612702		9.652650		0.347350	9.960052	48
13	9.612983		9.652988		0.347012	9.959995	47
14	9.613264		9.653326		0.346674	9.959938	46
15	9.613545		9.653663		0.346337	9.959882	45
16	9.613825	4.66	9.654000	5.62	0.346000	9.959825	44
17	9.614105		9.654337		0.345663	9.959768	43
18	9.614385		9.654674		0.345326	9.959711	42
19	9.614665		9.655011		0.344989	9.959654	41
20	9.614944	4.65	9.655348	5.60	0.344652	9.959596	40
21	9.615223		9.655684		0.344316	9.959539	39
22	9.615502		9.656020		0.343980	9.959482	38
23	9.615781	4.63	9.656356	5.59	0.343644	9.959425	37
24	9.616060		9.656692		0.343308	9.959368	36
25	9.616338		9.657028		0.342972	9.959310	35
26	9.616616	4.61	9.657364	5.57	0.342636	9.959253	34
27	9.616894		9.657699		0.342301	9.959195	33
28	9.617172		9.658034		0.341966	9.959138	32
29	9.617450		9.658369		0.341631	9.959080	31
30	9.617727	4.59	9.658704	5.56	0.341296	9.959023	30
31	9.618004		9.658039		0.340961	9.958965	29
32	9.618281		9.658373		0.340627	9.958908	28
33	9.618558	4.57	9.658708	5.55	0.340292	9.958850	27
34	9.618834		9.659042		0.339958	9.958792	26
35	9.619110		9.659376		0.339624	9.958734	25
36	9.619386	4.55	9.659710	5.54	0.339290	9.958677	24
37	9.619662		9.660043		0.338957	9.958619	23
38	9.619938		9.660377		0.338623	9.958561	22
39	9.620213	4.53	9.660710	5.53	0.338290	9.958503	21
40	9.620488		9.661043		0.337957	9.958445	20
41	9.620763		9.661376		0.337624	9.958387	19
42	9.621038	4.51	9.661709	5.52	0.337291	9.958329	18
43	9.621313		9.662042		0.336958	9.958271	17
44	9.621587		9.662375		0.336625	9.958213	16
45	9.621861		9.662707		0.336293	9.958154	15
46	9.622135	4.49	9.663039	5.51	0.335961	9.958096	14
47	9.622409		9.663371		0.335629	9.958038	13
48	9.622682		9.663703		0.335297	9.957979	12
49	9.622956	4.47	9.664035	5.50	0.334965	9.957921	11
50	9.623229		9.664366		0.334634	9.957863	10
51	9.623502		9.664698		0.334302	9.957804	9
52	9.623774	4.45	9.665029	5.49	0.333971	9.957746	8
53	9.624047		9.665360		0.333640	9.957687	7
54	9.624319		9.665691		0.333309	9.957628	6
55	9.624591		9.666021		0.332979	9.957570	5
56	9.624863	4.43	9.666352	5.48	0.332648	9.957511	4
57	9.625135		9.666682		0.332318	9.957452	3
58	9.625406		9.667013		0.331987	9.957393	2
59	9.625677	4.41	9.667343	5.47	0.331657	9.957335	1
60	9.625948		9.667673		0.331327	9.957276	
	Cosin. 65		Cotang. 65		Tang. 65	Sin. 65	

1	Sin. 25	1	Tang. 25	1	Cotang. 25	Cosin. 25	1	
0	9.625948		9.668673		0.331327	9.957276		60
1	9.626219	4.51	9.669002	5.49	0.330998	9.957217	0.98	59
2	9.626490		9.669332		0.330668	9.957158		58
3	9.626760		9.669661		0.330339	9.957099		57
4	9.627030		9.669991		0.330009	9.957040		56
5	9.627300		9.670320		0.329680	9.956981		55
6	9.627570	4.49	9.670649	5.46	0.329351	9.956922	0.99	54
7	9.627840		9.670977		0.329023	9.956862		53
8	9.628109		9.671306		0.328694	9.956803		52
9	9.628378		9.671635		0.328365	9.956744		51
10	9.628647		9.671963		0.328037	9.956684		50
11	9.628916	4.47	9.672291	5.46	0.327709	9.956625	1.00	49
12	9.629185		9.672619		0.327381	9.956566		48
13	9.629453		9.672947		0.327053	9.956506		47
14	9.629721		9.673274		0.326726	9.956447		46
15	9.629989		9.673602		0.326398	9.956387		45
16	9.630257	4.46	9.673929	5.45	0.326071	9.956327	1.01	44
17	9.630524		9.674257		0.325743	9.956268		43
18	9.630792		9.674584		0.325416	9.956208		42
19	9.631059		9.674911		0.325089	9.956148		41
20	9.631326		9.675237		0.324763	9.956089		40
21	9.631593	4.44	9.675564	5.44	0.324436	9.956029	1.00	39
22	9.631859		9.675890		0.324110	9.955969		38
23	9.632125		9.676217		0.323783	9.955909		37
24	9.632392		9.676543		0.323457	9.955849		36
25	9.632658		9.676869		0.323131	9.955789		35
26	9.632923	4.42	9.677194	5.42	0.322806	9.955729	1.01	34
27	9.633189		9.677520		0.322480	9.955669		33
28	9.633454		9.677846		0.322154	9.955609		32
29	9.633719		9.678171		0.321829	9.955548		31
30	9.633984		9.678496		0.321504	9.955488		30
31	9.634249	4.41	9.678821	5.41	0.321179	9.955428	1.01	29
32	9.634514		9.679146		0.320854	9.955368		28
33	9.634778		9.679471		0.320529	9.955307		27
34	9.635042		9.679795		0.320205	9.955247		26
35	9.635306		9.680120		0.319880	9.955186		25
36	9.635570	4.39	9.680444	5.40	0.319556	9.955126	1.01	24
37	9.635834		9.680768		0.319232	9.955066		23
38	9.636097		9.681092		0.318908	9.955005		22
39	9.636360		9.681416		0.318584	9.954944		21
40	9.636623		9.681740		0.318260	9.954883		20
41	9.636886	4.37	9.682063	5.39	0.317937	9.954823	1.01	19
42	9.637148		9.682387		0.317613	9.954762		18
43	9.637411		9.682710		0.317290	9.954701		17
44	9.637673		9.683033		0.316967	9.954640		16
45	9.637935		9.683356		0.316644	9.954579		15
46	9.638197	4.36	9.683679	5.37	0.316321	9.954518	1.02	14
47	9.638458		9.684001		0.315999	9.954457		13
48	9.638720		9.684324		0.315676	9.954396		12
49	9.638981		9.684646		0.315354	9.954335		11
50	9.639242		9.684968		0.315032	9.954274		10
51	9.639503	4.34	9.685290	5.36	0.314710	9.954213	1.02	9
52	9.639764		9.685612		0.314388	9.954152		8
53	9.640024		9.685934		0.314066	9.954090		7
54	9.640284		9.686255		0.313745	9.954029		6
55	9.640544		9.686577		0.313423	9.953968		5
56	9.640804	4.33	9.686898	5.35	0.313102	9.953906	1.03	4
57	9.641064		9.687219		0.312781	9.953845		3
58	9.641324		9.687540		0.312460	9.953783		2
59	9.641583		9.687861		0.312139	9.953722		1
60	9.641842		9.688182		0.311818	9.953660		0
	Cosin. 65		Cotang. 65		Tang. 65	Sin. 65		1

	In. 26	1°	Tang. 26	1°	Cotang. 26	Cosin. 26	1°
0	0.641842		9.688182		0.311818	9.953660	60
1	0.642101	4.31	9.688702	5.34	0.311498	9.953599	59
2	0.642360		9.688823		0.311177	9.953537	58
3	0.642618		9.688943		0.310857	9.953475	57
4	0.642877		9.689463		0.310537	9.953413	56
5	0.643135		9.689783		0.310217	9.953352	55
6	0.643393	4.29	9.690103	5.33	0.309897	9.953290	54
7	0.643650		9.690423		0.309577	9.953228	53
8	0.643908		9.690742		0.309258	9.953166	52
9	0.644165		9.691062		0.308938	9.953104	51
10	0.644423		9.691381		0.308619	9.953042	50
11	0.644680	4.28	9.691700	5.31	0.308300	9.952980	49
12	0.644938		9.692019		0.307981	9.952918	48
13	0.645193		9.692338		0.307662	9.952855	47
14	0.645450		9.692656		0.307344	9.952793	46
15	0.645706		9.692975		0.307025	9.952731	45
16	0.645962	4.26	9.693293	5.30	0.306707	9.952669	44
17	0.646218		9.693612		0.306388	9.952606	43
18	0.646474		9.693930		0.306070	9.952544	42
19	0.646729		9.694248		0.305752	9.952481	41
20	0.646984		9.694566		0.305434	9.952419	40
21	0.647240	4.25	9.694883	5.29	0.305117	9.952356	39
22	0.647494		9.695201		0.304799	9.952294	38
23	0.647749		9.695518		0.304482	9.952231	37
24	0.648004		9.695836		0.304164	9.952168	36
25	0.648258		9.696153		0.303847	9.952106	35
26	0.648513	4.23	9.696470	5.28	0.303530	9.952043	34
27	0.648766		9.696787		0.303213	9.951980	33
28	0.649020		9.697105		0.302897	9.951917	32
29	0.649274		9.697420		0.302580	9.951854	31
30	0.649528		9.697736		0.302264	9.951791	30
31	0.649781	4.22	9.698053	5.27	0.301947	9.951728	29
32	0.650034		9.698369		0.301631	9.951665	28
33	0.650287		9.698685		0.301315	9.951602	27
34	0.650539		9.699001		0.300999	9.951539	26
35	0.650792		9.699316		0.300684	9.951476	25
36	0.651044	4.20	9.699632	5.26	0.300368	9.951412	24
37	0.651297		9.699947		0.300053	9.951349	23
38	0.651549		9.700263		0.299737	9.951286	22
39	0.651800		9.700578		0.299422	9.951222	21
40	0.652052		9.700893		0.299107	9.951159	20
41	0.652304	4.19	9.701208	5.24	0.298792	9.951096	19
42	0.652555		9.701523		0.298477	9.951032	18
43	0.652806		9.701837		0.298163	9.950968	17
44	0.653057		9.702152		0.297848	9.950905	16
45	0.653308		9.702466		0.297534	9.950841	15
46	0.653558	4.17	9.702781	5.23	0.297219	9.950778	14
47	0.653808		9.703095		0.296905	9.950714	13
48	0.654059		9.703409		0.296591	9.950650	12
49	0.654309		9.703722		0.296278	9.950586	11
50	0.654558		9.704036		0.295964	9.950522	10
51	0.654808	4.16	9.704350	5.22	0.295650	9.950458	9
52	0.655058		9.704663		0.295337	9.950394	8
53	0.655307		9.704976		0.295024	9.950330	7
54	0.655556		9.705290		0.294710	9.950266	6
55	0.655805		9.705603		0.294397	9.950202	5
56	0.656054	4.14	9.705916	5.21	0.294084	9.950138	4
57	0.656302		9.706228		0.293772	9.950074	3
58	0.656551		9.706541		0.293459	9.950010	2
59	0.656799		9.706854		0.293146	9.949945	1
60	0.657047		9.707166		0.292834	9.949881	0
	Cosin. 63		Cotang. 63		Tang. 63	Sin. 63	

Sin. 27	I"	Tang. 27	I"	Cotang. 27	Cosin. 27	I"
9.657047		9.707166		0.292834	9.949881	60
9.657295		9.707478		0.292522	9.949816	59
9.657542	4.12	9.707790	5.20	0.292210	9.949752	58
9.657790		9.708102		0.291898	9.949688	57
9.658037		9.708414		0.291586	9.949623	56
9.658284		9.708726		0.291274	9.949558	55
9.658531	4.11	9.709037	5.19	0.290963	9.949494	54
9.658778		9.709349		0.290651	9.949429	53
9.659025		9.709660		0.290340	9.949364	52
9.659271		9.709971		0.290029	9.949300	51
9.659517		9.710282		0.289718	9.949235	50
9.659763	4.10	9.710593	5.18	0.289407	9.949170	49
9.660009		9.710904		0.289096	9.949105	48
9.660255		9.711215		0.288785	9.949040	47
9.660501		9.711525		0.288475	9.948975	46
9.660746		9.711836		0.288164	9.948910	45
9.660991	4.08	9.712146	5.17	0.287854	9.948845	44
9.661236		9.712456		0.287544	9.948780	43
9.661481		9.712766		0.287234	9.948715	42
9.661726		9.713076		0.286924	9.948650	41
9.661970		9.713386		0.286614	9.948584	40
9.662214	4.07	9.713696	5.16	0.286304	9.948519	39
9.662459		9.714005		0.285995	9.948454	38
9.662703		9.714314		0.285686	9.948388	37
9.662946		9.714624		0.285376	9.948323	36
9.663190		9.714933		0.285067	9.948257	35
9.663433	4.05	9.715242	5.15	0.284758	9.948192	34
9.663677		9.715551		0.284449	9.948126	33
9.663920		9.715860		0.284140	9.948060	32
9.664163		9.716168		0.283832	9.947995	31
9.664406		9.716477		0.283523	9.947929	30
9.664648	4.04	9.716785	5.13	0.283215	9.947863	29
9.664891		9.717093		0.282907	9.947797	28
9.665133		9.717401		0.282599	9.947731	27
9.665375		9.717709		0.282291	9.947665	26
9.665617		9.718017		0.281983	9.947600	25
9.665859		9.718325		0.281675	9.947533	24
9.666100		9.718633		0.281367	9.947467	23
9.666342		9.718940		0.281060	9.947401	22
9.666583		9.719248		0.280752	9.947335	21
9.666824		9.719555		0.280445	9.947269	20
9.667065	4.01	9.719862	5.11	0.280138	9.947203	19
9.667305		9.720169		0.279831	9.947136	18
9.667546		9.720476		0.279524	9.947070	17
9.667786		9.720783		0.279217	9.947004	16
9.668027		9.721089		0.278911	9.946937	15
9.668267	3.99	9.721396	5.10	0.278604	9.946871	14
9.668506		9.721702		0.278298	9.946804	13
9.668746		9.722009		0.277991	9.946738	12
9.668986		9.722315		0.277685	9.946671	11
9.669225		9.722621		0.277379	9.946604	10
9.669464	3.98	9.722927	5.09	0.277073	9.946538	9
9.669703		9.723232		0.276768	9.946471	8
9.669942		9.723538		0.276462	9.946404	7
9.670181		9.723844		0.276156	9.946337	6
9.670419		9.724149		0.275851	9.946270	5
9.670658	3.97	9.724454	5.08	0.275546	9.946203	4
9.670896		9.724760		0.275240	9.946136	3
9.671134		9.725065		0.274935	9.946069	2
9.671372		9.725370		0.274630	9.946002	1
9.671609		9.725674		0.274326	9.945935	0
Cosin. 62		Cotang. 62		Tang. 62	Sin. 62	1

r	Sin. 28	r	Tang. 28	r	Cotang. 28	Cosin.	r
0	0.671609		0.725674		0.274326	0.945035	60
1	0.671847	3.95	0.725979	5.08	0.274021	0.945068	59
2	0.672084		0.726284		0.273716	0.945100	58
3	0.672321		0.726588		0.273412	0.945133	57
4	0.672558		0.726892		0.273108	0.945166	56
5	0.672795		0.727197		0.272803	0.945198	55
6	0.673032	3.94	0.727501	5.06	0.272499	0.945231	54
7	0.673268		0.727805		0.272195	0.945264	53
8	0.673505		0.728109		0.271891	0.945296	52
9	0.673741		0.728412		0.271588	0.945328	51
10	0.673977		0.728716		0.271284	0.945261	50
11	0.674213	3.93	0.729020	5.04	0.270980	0.945193	49
12	0.674448		0.729323		0.270677	0.945125	48
13	0.674684		0.729626		0.270374	0.945058	47
14	0.674919		0.729929		0.270071	0.944990	46
15	0.675155	3.91	0.730233	5.02	0.269767	0.944922	45
16	0.675390		0.730535		0.269465	0.944854	44
17	0.675624		0.730838		0.269162	0.944786	43
18	0.675859	3.90	0.731141	5.00	0.268859	0.944718	42
19	0.676094		0.731444		0.268556	0.944650	41
20	0.676328		0.731746		0.268254	0.944582	40
21	0.676562	3.88	0.732048	5.02	0.267952	0.944514	39
22	0.676796		0.732351		0.267649	0.944446	38
23	0.677030		0.732653		0.267347	0.944377	37
24	0.677264	3.88	0.732955	5.02	0.267045	0.944309	36
25	0.677498		0.733257		0.266743	0.944241	35
26	0.677731	3.87	0.733558	5.02	0.266442	0.944172	34
27	0.677964		0.733860		0.266140	0.944104	33
28	0.678197		0.734162		0.265838	0.944036	32
29	0.678430	3.86	0.734463	5.00	0.265537	0.943967	31
30	0.678663		0.734764		0.265236	0.943899	30
31	0.678895	3.87	0.735066	5.00	0.264934	0.943830	29
32	0.679128		0.735367		0.264633	0.943761	28
33	0.679360		0.735668		0.264332	0.943693	27
34	0.679592	3.86	0.735969	5.00	0.264031	0.943624	26
35	0.679824		0.736269		0.263731	0.943555	25
36	0.680056	3.86	0.736570	5.00	0.263430	0.943486	24
37	0.680288		0.736870		0.263130	0.943417	23
38	0.680519	3.84	0.737171	5.00	0.262829	0.943348	22
39	0.680750		0.737471		0.262529	0.943279	21
40	0.680982		0.737771		0.262229	0.943210	20
41	0.681213	3.84	0.738071	5.00	0.261929	0.943141	19
42	0.681443		0.738371		0.261629	0.943072	18
43	0.681674		0.738671		0.261329	0.943003	17
44	0.681905	3.83	0.738971	5.00	0.261029	0.942934	16
45	0.682135		0.739271		0.260729	0.942864	15
46	0.682365	3.83	0.739570	5.00	0.260430	0.942795	14
47	0.682595		0.739870		0.260130	0.942726	13
48	0.682825		0.740169		0.259831	0.942656	12
49	0.683055	3.82	0.740468	5.00	0.259532	0.942587	11
50	0.683284		0.740767		0.259233	0.942517	10
51	0.683514	3.82	0.741066	5.00	0.258934	0.942448	9
52	0.683743		0.741365		0.258635	0.942378	8
53	0.683972		0.741664		0.258336	0.942308	7
54	0.684201	3.80	0.741962	5.00	0.258038	0.942239	6
55	0.684430		0.742261		0.257739	0.942169	5
56	0.684658		0.742559		0.257441	0.942099	4
57	0.684887	3.80	0.742858	5.00	0.257142	0.942029	3
58	0.685115		0.743156		0.256844	0.941959	2
59	0.685343		0.743454		0.256546	0.941889	1
60	0.685571		0.743752		0.256248	0.941819	0
	Cosin. 61		Cotang. 61		Tang. 61	Sin. 61	

1	Sin. 29	1°	Tang 29	1°	Cotang. 29	Cosin. 29	1°	
0	9.685571		9.743752		0.256248	9.941819		60
1	9.685799	3.79	9.744050	4.95	0.255950	9.941749	1.17	59
2	9.686027		9.744348		0.255652	9.941679		58
3	9.686254		9.744645		0.255355	9.941609		57
4	9.686482		9.744943		0.255057	9.941539		56
5	9.686709		9.745240		0.254760	9.941469		55
6	9.686936	3.78	9.745538	4.95	0.254462	9.941398	1.18	54
7	9.687163		9.745835		0.254165	9.941328		53
8	9.687389		9.746132		0.253868	9.941258		52
9	9.687616		9.746429		0.253571	9.941187		51
10	9.687843		9.746726		0.253274	9.941117		50
11	9.688069	3.76	9.747023	4.94	0.252977	9.941046	1.18	49
12	9.688295		9.747319		0.252681	9.940975		48
13	9.688521		9.747616		0.252384	9.940905		47
14	9.688747		9.747913		0.252087	9.940834		46
15	9.688972		9.748209		0.251791	9.940763		45
16	9.689198	3.75	9.748505	4.93	0.251495	9.940693	1.19	44
17	9.689423		9.748801		0.251199	9.940622		43
18	9.689648		9.749097		0.250903	9.940551		42
19	9.689873		9.749393		0.250607	9.940480		41
20	9.690098		9.749689		0.250311	9.940409		40
21	9.690323	3.74	9.749985	4.92	0.250015	9.940339	1.19	39
22	9.690548		9.750281		0.249719	9.940267		38
23	9.690772		9.750576		0.249424	9.940196		37
24	9.690996		9.750872		0.249128	9.940125		36
25	9.691220		9.751167		0.248833	9.940054		35
26	9.691444	3.73	9.751462	4.92	0.248538	9.939982	1.19	34
27	9.691668		9.751757		0.248243	9.939911		33
28	9.691892		9.752052		0.247948	9.939840		32
29	9.692115		9.752347		0.247653	9.939768		31
30	9.692339		9.752642		0.247358	9.939697		30
31	9.692562	3.71	9.752937	4.91	0.247063	9.939625	1.20	29
32	9.692785		9.753231		0.246769	9.939554		28
33	9.693008		9.753526		0.246474	9.939482		27
34	9.693231		9.753820		0.246180	9.939410		26
35	9.693453		9.754115		0.245885	9.939339		25
36	9.693676	3.70	9.754409	4.90	0.245591	9.939267	1.20	24
37	9.693898		9.754703		0.245297	9.939195		23
38	9.694120		9.754997		0.245003	9.939123		22
39	9.694342		9.755291		0.244709	9.939052		21
40	9.694564		9.755585		0.244415	9.938980		20
41	9.694786	3.69	9.755878	4.89	0.244122	9.938908	1.20	19
42	9.695007		9.756172		0.243828	9.938836		18
43	9.695229		9.756465		0.243535	9.938763		17
44	9.695450		9.756759		0.243241	9.938691		16
45	9.695671		9.757052		0.242948	9.938619		15
46	9.695892	3.68	9.757345	4.88	0.242655	9.938547	1.21	14
47	9.696113		9.757638		0.242362	9.938475		13
48	9.696334		9.757931		0.242069	9.938402		12
49	9.696554		9.758224		0.241776	9.938330		11
50	9.696775		9.758517		0.241483	9.938258		10
51	9.696995	3.66	9.758810	4.87	0.241190	9.938185	1.21	9
52	9.697215		9.759102		0.240898	9.938113		8
53	9.697435		9.759395		0.240605	9.938040		7
54	9.697654		9.759687		0.240313	9.937967		6
55	9.697874		9.759979		0.240021	9.937895		5
56	9.698094	3.65	9.760272	4.86	0.239728	9.937822	1.21	4
57	9.698313		9.760564		0.239436	9.937749		3
58	9.698532		9.760856		0.239144	9.937676		2
59	9.698751		9.761148		0.238852	9.937604		1
60	9.698970		9.761439		0.238561	9.937531		0
	Cosin. 60		Cotang. 60		Tang. 60	Sin. 60		1

r	Sin. 24	r	Tang. 24	r	Colang. 24	Cosin. 24	r
0	9.609313		9.648583		0.351417	9.960730	
1	9.609597	4.72	9.648923	5.66	0.351077	9.960674	0.94
2	9.609880		9.649263		0.350737	9.960618	
3	9.610164		9.649602		0.350398	9.960561	
4	9.610447		9.649942		0.350058	9.960505	
5	9.610729		9.650281		0.349719	9.960448	
6	9.611012	4.70	9.650620	5.64	0.349380	9.960392	
7	9.611294		9.650959		0.349041	9.960335	
8	9.611576		9.651297		0.348703	9.960279	
9	9.611858		9.651636		0.348364	9.960222	
10	9.612140		9.651974		0.348026	9.960165	
11	9.612421	4.68	9.652312	5.63	0.347688	9.960109	
12	9.612702		9.652650		0.347350	9.960052	
13	9.612983		9.652988		0.347012	9.959995	
14	9.613264	4.66	9.653326	5.62	0.346674	9.959938	
15	9.613545		9.653663		0.346337	9.959882	
16	9.613825	4.66	9.654000	5.62	0.346000	9.959825	0.95
17	9.614105		9.654337		0.345663	9.959768	
18	9.614385		9.654674		0.345326	9.959711	
19	9.614665	4.65	9.655011	5.60	0.344989	9.959654	
20	9.614944		9.655348		0.344652	9.959596	
21	9.615223	4.65	9.655684	5.60	0.344316	9.959539	
22	9.615502		9.656020		0.343980	9.959482	
23	9.615781	4.63	9.656356	5.59	0.343644	9.959425	
24	9.616060		9.656692		0.343308	9.959368	
25	9.616338		9.657028		0.342972	9.959310	
26	9.616616	4.63	9.657364	5.59	0.342636	9.959253	0.96
27	9.616894		9.657699		0.342301	9.959195	
28	9.617172	4.61	9.658034	5.57	0.341966	9.959138	
29	9.617450		9.658369		0.341631	9.959080	
30	9.617727		9.658704		0.341296	9.959023	
31	9.618004	4.61	9.658039	5.57	0.340961	9.958965	
32	9.618281		9.658373		0.340627	9.958908	
33	9.618558	4.59	9.658708	5.56	0.340292	9.958850	
34	9.618834		9.659042		0.339958	9.958792	
35	9.619110		9.659376		0.339624	9.958734	
36	9.619386	4.59	9.659710	5.56	0.339290	9.958677	
37	9.619662		9.660043		0.338957	9.958619	
38	9.619938	4.58	9.660377	5.55	0.338623	9.958561	
39	9.620213		9.660710		0.338290	9.958503	
40	9.620488		9.661043		0.337957	9.958445	
41	9.620763	4.58	9.661376	5.55	0.337624	9.958387	0.97
42	9.621038		9.661709		0.337291	9.958329	
43	9.621313		9.662042		0.336958	9.958271	
44	9.621587	4.58	9.662375	5.55	0.336625	9.958213	
45	9.621861		9.662707		0.336293	9.958154	
46	9.622135	4.56	9.663039	5.53	0.335961	9.958096	
47	9.622409		9.663371		0.335629	9.958038	
48	9.622682		9.663703		0.335297	9.957979	
49	9.622956	4.56	9.664035	5.53	0.334965	9.957921	
50	9.623229		9.664366		0.334634	9.957863	
51	9.623502	4.54	9.664698	5.52	0.334302	9.957804	0.98
52	9.623774		9.665029		0.333971	9.957746	
53	9.624047		9.665360		0.333640	9.957687	
54	9.624319	4.54	9.665691	5.52	0.333309	9.957628	
55	9.624591		9.666021		0.332979	9.957570	
56	9.624863	4.52	9.666352	5.51	0.332648	9.957511	
57	9.625135		9.666682		0.332318	9.957452	
58	9.625406		9.667013		0.331987	9.957393	
59	9.625677	4.52	9.667343	5.51	0.331657	9.957335	
60	9.625948		9.667673		0.331327	9.957276	
	Chain. 65		Colang. 65		Tang. 65	Sin. 65	

I	Sin. 25	I'	Tang. 25	I'	Cotang. 25	Cosin. 25	I'
0	9.625948		9.668673		0.331327	9.957276	60
1	9.626219		9.669002	5.49	0.330998	9.957217	59
2	9.626490	4.51	9.669332		0.330668	9.957158	58
3	9.626760		9.669661	5.49	0.330339	9.957099	57
4	9.627030		9.669991		0.330009	9.957040	56
5	9.627300		9.670320	5.46	0.329680	9.956981	55
6	9.627570	4.49	9.670649		0.329351	9.956922	54
7	9.627840		9.670977	5.46	0.329023	9.956862	53
8	9.628109		9.671306		0.328694	9.956803	52
9	9.628378	4.49	9.671635		0.328365	9.956744	51
10	9.628647		9.671963	5.46	0.328037	9.956684	50
11	9.628916	4.47	9.672291		0.327709	9.956625	49
12	9.629185		9.672619	5.46	0.327381	9.956566	48
13	9.629453		9.672947		0.327053	9.956506	47
14	9.629721	4.47	9.673274		0.326726	9.956447	46
15	9.629989		9.673602	5.43	0.326398	9.956387	45
16	9.630257	4.46	9.673929		0.326071	9.956327	44
17	9.630524		9.674257	5.43	0.325743	9.956268	43
18	9.630792		9.674584		0.325416	9.956208	42
19	9.631059	4.46	9.674911		0.325089	9.956148	41
20	9.631326		9.675237	5.44	0.324763	9.956089	40
21	9.631593	4.44	9.675564		0.324436	9.956029	39
22	9.631859		9.675890	5.44	0.324110	9.955969	38
23	9.632125		9.676217		0.323783	9.955909	37
24	9.632392	4.44	9.676543		0.323457	9.955849	36
25	9.632658		9.676869	5.42	0.323131	9.955789	35
26	9.632923	4.42	9.677194		0.322806	9.955729	34
27	9.633189		9.677520	5.42	0.322480	9.955669	33
28	9.633454		9.677846		0.322154	9.955609	32
29	9.633719	4.42	9.678171		0.321829	9.955548	31
30	9.633984		9.678496	5.41	0.321504	9.955488	30
31	9.634249	4.41	9.678821		0.321179	9.955428	29
32	9.634514		9.679146	5.41	0.320854	9.955368	28
33	9.634778		9.679471		0.320529	9.955307	27
34	9.635042	4.41	9.679795		0.320205	9.955247	26
35	9.635306		9.680120	5.40	0.319880	9.955186	25
36	9.635570	4.39	9.680444		0.319556	9.955126	24
37	9.635834		9.680768	5.40	0.319232	9.955065	23
38	9.636097		9.681092		0.318908	9.955005	22
39	9.636360	4.39	9.681416		0.318584	9.954944	21
40	9.636623		9.681740	5.39	0.318260	9.954883	20
41	9.636886	4.37	9.682063		0.317937	9.954823	19
42	9.637148		9.682387	5.39	0.317613	9.954762	18
43	9.637411		9.682710		0.317290	9.954701	17
44	9.637673	4.37	9.683033		0.316967	9.954640	16
45	9.637935		9.683356	5.37	0.316644	9.954579	15
46	9.638197	4.36	9.683679		0.316321	9.954518	14
47	9.638458		9.684001	5.37	0.315999	9.954457	13
48	9.638720		9.684324		0.315676	9.954396	12
49	9.638981	4.36	9.684646		0.315354	9.954335	11
50	9.639242		9.684968	5.36	0.315032	9.954274	10
51	9.639503	4.34	9.685290		0.314710	9.954213	9
52	9.639764		9.685612	5.36	0.314388	9.954152	8
53	9.640024		9.685934		0.314066	9.954090	7
54	9.640284	4.34	9.686255		0.313745	9.954029	6
55	9.640544		9.686577	5.35	0.313423	9.953968	5
56	9.640804	4.33	9.686898		0.313102	9.953906	4
57	9.641064		9.687219	5.35	0.312781	9.953845	3
58	9.641324		9.687540		0.312460	9.953783	2
59	9.641583	4.33	9.687861		0.312139	9.953722	1
60	9.641842		9.688182		0.311818	9.953660	0
	Cosin. 64		Cotang. 64		Tang. 64	Sin. 64	I

I	In. 26	I'	Tang. 26	I'	Coang. 26	Cosin. 26	I'
0	9.641842		9.688182		0.311818	9.953660	
1	9.642101		9.688502		0.311498	9.953599	
2	9.642360	4.31	9.688823	5.34	0.311177	9.953537	1.08
3	9.642618		9.689143		0.310857	9.953475	
4	9.642877		9.689463		0.310537	9.953413	
5	9.643135		9.689783		0.310217	9.953352	
6	9.643393	4.29	9.690103	5.33	0.309897	9.953290	
7	9.643650		9.690423		0.309577	9.953228	
8	9.643908		9.690742		0.309258	9.953166	
9	9.644165		9.691062		0.308938	9.953104	
10	9.644423		9.691381		0.308619	9.953042	
11	9.644680		9.691700		0.308300	9.952980	
12	9.644936	4.28	9.692019	5.31	0.307981	9.952918	
13	9.645193		9.692338		0.307662	9.952855	
14	9.645450		9.692656		0.307344	9.952793	
15	9.645706		9.692975		0.307025	9.952731	
16	9.645962	4.26	9.693293	5.30	0.306707	9.952669	1.09
17	9.646218		9.693612		0.306388	9.952606	
18	9.646474		9.693930		0.306070	9.952544	
19	9.646729		9.694248		0.305752	9.952481	
20	9.646984		9.694566		0.305434	9.952419	
21	9.647240	4.25	9.694883	5.29	0.305117	9.952356	
22	9.647495		9.695201		0.304799	9.952294	
23	9.647749		9.695518		0.304482	9.952231	
24	9.648004		9.695836		0.304164	9.952168	
25	9.648258		9.696153		0.303847	9.952106	
26	9.648512	4.23	9.696470	5.28	0.303530	9.952043	
27	9.648766		9.696787		0.303213	9.951980	
28	9.649020		9.697103		0.302897	9.951917	
29	9.649274		9.697420		0.302580	9.951854	
30	9.649527		9.697736		0.302264	9.951791	
31	9.649781	4.22	9.698053	5.27	0.301947	9.951728	1.10
32	9.650034		9.698369		0.301631	9.951665	
33	9.650287		9.698687		0.301315	9.951602	
34	9.650539		9.699001		0.300999	9.951539	
35	9.650792		9.699316		0.300684	9.951476	
36	9.651044	4.20	9.699632	5.26	0.300368	9.951412	
37	9.651297		9.699947		0.300053	9.951349	
38	9.651549		9.700263		0.299737	9.951286	
39	9.651800		9.700578		0.299422	9.951222	
40	9.652052		9.700893		0.299107	9.951159	
41	9.652304	4.19	9.701208	5.24	0.298792	9.951096	1.11
42	9.652555		9.701523		0.298477	9.951032	
43	9.652806		9.701837		0.298163	9.950968	
44	9.653057		9.702152		0.297848	9.950905	
45	9.653308		9.702466		0.297534	9.950841	
46	9.653558	4.17	9.702781	5.23	0.297219	9.950778	
47	9.653808		9.703095		0.296905	9.950714	
48	9.654059		9.703409		0.296591	9.950650	
49	9.654309		9.703722		0.296278	9.950586	
50	9.654558		9.704036		0.295964	9.950522	
51	9.654808	4.16	9.704350	5.22	0.295650	9.950458	
52	9.655058		9.704663		0.295337	9.950394	
53	9.655307		9.704976		0.295024	9.950330	
54	9.655556		9.705290		0.294710	9.950266	
55	9.655805		9.705603		0.294397	9.950202	
56	9.656054	4.14	9.705916	5.21	0.294084	9.950138	1.12
57	9.656302		9.706228		0.293772	9.950074	
58	9.656551		9.706541		0.293459	9.950010	
59	9.656799		9.706854		0.293146	9.949945	
60	9.657047		9.707166		0.292834	9.949881	
	Coang. 63		Coang. 63		Tang. 63	Sin. 63	

Sin. 27	1°	Tang. 27	1°	Cotang. 27	Cosin. 27	1°
9.657047		9.707166		0.292834	9.949881	60
9.657295		9.707478	5.20	0.292522	9.949816	59
9.657542	4.12	9.707790		0.292210	9.949752	58
9.657790		9.708102		0.291898	9.949688	57
9.658037		9.708414		0.291586	9.949623	56
9.658284		9.708726		0.291274	9.949558	55
9.658531	4.11	9.709037	5.19	0.290963	9.949494	54
9.658778		9.709349		0.290651	9.949429	53
9.659025		9.709660		0.290340	9.949364	52
9.659271		9.709971		0.290029	9.949300	51
9.659517		9.710282		0.289718	9.949235	50
9.659763	4.10	9.710593	5.18	0.289407	9.949170	49
9.660009		9.710904		0.289096	9.949105	48
9.660255		9.711215		0.288785	9.949040	47
9.660501		9.711525		0.288475	9.948975	46
9.660746		9.711836		0.288164	9.948910	45
9.660991	4.08	9.712146	5.17	0.287854	9.948845	44
9.661236		9.712456		0.287544	9.948780	43
9.661481		9.712766		0.287234	9.948715	42
9.661726		9.713076		0.286924	9.948650	41
9.661970		9.713386		0.286614	9.948584	40
9.662214	4.07	9.713696	5.16	0.286304	9.948519	39
9.662459		9.714005		0.285995	9.948454	38
9.662703		9.714314		0.285686	9.948388	37
9.662946		9.714624		0.285376	9.948323	36
9.663190		9.714933		0.285067	9.948257	35
9.663433	4.05	9.715242	5.15	0.284758	9.948192	34
9.663677		9.715551		0.284449	9.948126	33
9.663920		9.715860		0.284140	9.948060	32
9.664163		9.716168		0.283832	9.947995	31
9.664406		9.716477		0.283523	9.947929	30
9.664648	4.04	9.716785	5.13	0.283215	9.947863	29
9.664891		9.717093		0.282907	9.947797	28
9.665133		9.717401		0.282599	9.947731	27
9.665375		9.717709		0.282291	9.947665	26
9.665617		9.718017		0.281983	9.947600	25
9.665859	4.03	9.718325	5.12	0.281675	9.947533	24
9.666100		9.718633		0.281367	9.947467	23
9.666342		9.718940		0.281060	9.947401	22
9.666583		9.719248		0.280752	9.947335	21
9.666824		9.719555		0.280445	9.947269	20
9.667065	4.01	9.719862	5.11	0.280138	9.947203	19
9.667305		9.720169		0.279831	9.947136	18
9.667546		9.720476		0.279524	9.947070	17
9.667786		9.720783		0.279217	9.947004	16
9.668027		9.721089		0.278911	9.946937	15
9.668267	3.99	9.721396	5.10	0.278604	9.946871	14
9.668506		9.721702		0.278298	9.946804	13
9.668746		9.722009		0.277991	9.946738	12
9.668986		9.722315		0.277685	9.946671	11
9.669225		9.722621		0.277379	9.946604	10
9.669464	3.98	9.722927	5.09	0.277073	9.946538	9
9.669703		9.723232		0.276768	9.946471	8
9.669942		9.723538		0.276462	9.946404	7
9.670181		9.723844		0.276156	9.946337	6
9.670419		9.724149		0.275851	9.946270	5
9.670658	3.97	9.724454	5.08	0.275546	9.946203	4
9.670896		9.724760		0.275240	9.946136	3
9.671134		9.725065		0.274935	9.946069	2
9.671372		9.725370		0.274630	9.946002	1
9.671609		9.725674		0.274326	9.945935	0
Cosin. 62		Cotang. 62		Tang. 62	Sin. 62	1

	sin. 28	1°	Tang. 28	1°	Cotang. 28	Cosin.	1°	
0	9.671609		9.725674		0.274326	9.945935		60
1	9.671847	3.95	9.725979	5.08	0.274021	9.945868	1.12	59
2	9.672084		9.726284		0.273716	9.945800		58
3	9.672321		9.726588		0.273412	9.945733		57
4	9.672558		9.726892		0.273108	9.945666		56
5	9.672795		9.727197		0.272803	9.945598		55
6	9.673032	3.94	9.727501	5.06	0.272499	9.945531	1.13	54
7	9.673268		9.727805		0.272195	9.945464		53
8	9.673505		9.728109		0.271891	9.945396		52
9	9.673741		9.728412		0.271588	9.945328		51
10	9.673977		9.728716		0.271284	9.945261		50
11	9.674213	3.93	9.729020	5.04	0.270980	9.945193	1.13	49
12	9.674448		9.729323		0.270677	9.945125		48
13	9.674684		9.729626		0.270374	9.945058		47
14	9.674919		9.729929		0.270071	9.944990		46
15	9.675155	3.91	9.730233	5.02	0.269767	9.944922	1.14	45
16	9.675390		9.730535		0.269465	9.944854		44
17	9.675624		9.730838		0.269162	9.944786		43
18	9.675859	3.90	9.731141	5.00	0.268859	9.944718	1.14	42
19	9.676094		9.731444		0.268556	9.944650		41
20	9.676328		9.731746		0.268254	9.944582		40
21	9.676562	3.88	9.732048	5.02	0.267952	9.944514	1.14	39
22	9.676796		9.732351		0.267649	9.944446		38
23	9.677030		9.732653		0.267347	9.944377		37
24	9.677264	3.88	9.732955	5.02	0.267045	9.944309	1.15	36
25	9.677498		9.733257		0.266743	9.944241		35
26	9.677731		9.733558		0.266442	9.944172		34
27	9.677964	3.87	9.733860	5.00	0.266140	9.944104	1.15	33
28	9.678197		9.734162		0.265838	9.944036		32
29	9.678430		9.734463		0.265537	9.943967		31
30	9.678663	3.86	9.734764	5.00	0.265236	9.943899	1.15	30
31	9.678895		9.735066		0.264934	9.943830		29
32	9.679128		9.735367		0.264633	9.943761		28
33	9.679360	3.85	9.735668	4.99	0.264332	9.943693	1.16	27
34	9.679592		9.735969		0.264031	9.943624		26
35	9.679824		9.736269		0.263731	9.943555		25
36	9.680056	3.84	9.736570	4.98	0.263430	9.943486	1.16	24
37	9.680288		9.736870		0.263130	9.943417		23
38	9.680519		9.737171		0.262829	9.943348		22
39	9.680750	3.83	9.737471	4.97	0.262529	9.943279	1.17	21
40	9.680982		9.737771		0.262229	9.943210		20
41	9.681213		9.738071		0.261929	9.943141		19
42	9.681443	3.82	9.738371	4.97	0.261629	9.943072	1.17	18
43	9.681674		9.738671		0.261329	9.943003		17
44	9.681905		9.738971		0.261029	9.942934		16
45	9.682135	3.81	9.739271	4.96	0.260729	9.942864	1.18	15
46	9.682365		9.739570		0.260430	9.942795		14
47	9.682595		9.739870		0.260130	9.942726		13
48	9.682825	3.80	9.740169	4.95	0.259831	9.942656	1.18	12
49	9.683055		9.740468		0.259532	9.942587		11
50	9.683284		9.740767		0.259233	9.942517		10
51	9.683514	3.79	9.741066	4.94	0.258934	9.942448	1.19	9
52	9.683743		9.741365		0.258635	9.942378		8
53	9.683972		9.741664		0.258336	9.942308		7
54	9.684201	3.78	9.741962	4.93	0.258038	9.942239	1.19	6
55	9.684430		9.742261		0.257739	9.942169		5
56	9.684658		9.742559		0.257441	9.942099		4
57	9.684887	3.77	9.742858	4.92	0.257142	9.942029	1.20	3
58	9.685115		9.743156		0.256844	9.941959		2
59	9.685343		9.743454		0.256546	9.941889		1
60	9.685571	3.76	9.743752	4.91	0.256248	9.941819	1.20	0
	Cosin. 61		Cotang. 61		Tang. 61	sin. 61		1

1°	Sin. 29	1°	Tang 29	1°	Cotang. 29	Cosin. 29	1°
0	9.685571		9.743752		0.256248	9.941819	60
1	9.685799	3.79	9.744050	4.95	0.255950	9.941749	59
2	9.686027		9.744348		0.255652	9.941679	58
3	9.686254		9.744645		0.255355	9.941609	57
4	9.686482		9.744943		0.255057	9.941539	56
5	9.686709		9.745240		0.254760	9.941469	55
6	9.686936	3.78	9.745538	4.95	0.254462	9.941398	54
7	9.687163		9.745835		0.254165	9.941328	53
8	9.687389		9.746132		0.253868	9.941258	52
9	9.687616		9.746429		0.253571	9.941187	51
10	9.687843		9.746726		0.253274	9.941117	50
11	9.688069	3.76	9.747023	4.94	0.252977	9.941046	49
12	9.688295		9.747319		0.252681	9.940975	48
13	9.688521		9.747616		0.252384	9.940905	47
14	9.688747		9.747913		0.252087	9.940834	46
15	9.688972		9.748209		0.251791	9.940763	45
16	9.689198	3.75	9.748505	4.93	0.251495	9.940693	44
17	9.689423		9.748801		0.251199	9.940622	43
18	9.689648		9.749097		0.250903	9.940551	42
19	9.689873		9.749393		0.250607	9.940480	41
20	9.690098		9.749689		0.250311	9.940409	40
21	9.690323	3.74	9.749985	4.92	0.250015	9.940338	39
22	9.690548		9.750281		0.249719	9.940267	38
23	9.690772		9.750576		0.249424	9.940196	37
24	9.690996		9.750872		0.249128	9.940125	36
25	9.691220		9.751167		0.248833	9.940054	35
26	9.691444	3.73	9.751462	4.91	0.248538	9.939982	34
27	9.691668		9.751757		0.248243	9.939911	33
28	9.691892		9.752052		0.247948	9.939840	32
29	9.692115		9.752347		0.247653	9.939768	31
30	9.692339		9.752642		0.247358	9.939697	30
31	9.692562	3.71	9.752937	4.91	0.247063	9.939625	29
32	9.692785		9.753231		0.246769	9.939554	28
33	9.693008		9.753526		0.246474	9.939482	27
34	9.693231		9.753820		0.246180	9.939410	26
35	9.693453		9.754115		0.245885	9.939339	25
36	9.693676	3.70	9.754409	4.90	0.245591	9.939267	24
37	9.693898		9.754703		0.245297	9.939195	23
38	9.694120		9.754997		0.245003	9.939123	22
39	9.694342		9.755291		0.244709	9.939052	21
40	9.694564		9.755585		0.244415	9.938980	20
41	9.694786	3.69	9.755878	4.89	0.244122	9.938908	19
42	9.695007		9.756172		0.243828	9.938836	18
43	9.695229		9.756465		0.243535	9.938763	17
44	9.695450		9.756759		0.243241	9.938691	16
45	9.695671		9.757052		0.242948	9.938619	15
46	9.695892	3.68	9.757345	4.88	0.242655	9.938547	14
47	9.696113		9.757638		0.242362	9.938475	13
48	9.696334		9.757931		0.242069	9.938402	12
49	9.696554		9.758224		0.241776	9.938330	11
50	9.696775		9.758517		0.241483	9.938258	10
51	9.696995	3.66	9.758810	4.87	0.241190	9.938185	9
52	9.697215		9.759102		0.240898	9.938113	8
53	9.697435		9.759395		0.240605	9.938040	7
54	9.697654		9.759687		0.240313	9.937967	6
55	9.697874		9.759979		0.240021	9.937895	5
56	9.698094	3.65	9.760272	4.87	0.239728	9.937822	4
57	9.698313		9.760564		0.239436	9.937749	3
58	9.698533		9.760856		0.239144	9.937676	2
59	9.698751		9.761148		0.238852	9.937604	1
60	9.698970		9.761439		0.238561	9.937531	0
	Cosin. 60		Cotang. 60		Tang. 60	Sin. 60	1

1°	Sin. 30	1°	Tang. 30	1°	Coang. 30	Coan. 30	1°
0	9.698970		9.761439		0.238561	9.937531	60
1	9.699189	3.61	9.761731	4.86	0.238269	9.937458	59
2	9.699407		9.762023		0.237977	9.937385	58
3	9.699626		9.762314		0.237686	9.937312	57
4	9.699844		9.762606		0.237394	9.937238	56
5	9.700062		9.762897		0.237103	9.937165	55
6	9.700280	3.63	9.763188	4.85	0.236812	9.937092	54
7	9.700498		9.763479		0.236521	9.937019	53
8	9.700716		9.763770		0.236230	9.936946	52
9	9.700933		9.764061		0.235939	9.936872	51
10	9.701151		9.764352		0.235648	9.936799	50
11	9.701368	3.62	9.764643	4.84	0.235357	9.936725	49
12	9.701585		9.764933		0.235067	9.936652	48
13	9.701802		9.765224		0.234776	9.936578	47
14	9.702019		9.765514		0.234486	9.936505	46
15	9.702236		9.765805		0.234195	9.936431	45
16	9.702452	3.60	9.766095	4.83	0.233905	9.936357	44
17	9.702669		9.766385		0.233615	9.936284	43
18	9.702885		9.766675		0.233325	9.936210	42
19	9.703101		9.766965		0.233035	9.936136	41
20	9.703317		9.767255		0.232745	9.936062	40
21	9.703533	3.59	9.767545	4.82	0.232455	9.935988	39
22	9.703749		9.767834		0.232166	9.935914	38
23	9.703964		9.768124		0.231876	9.935840	37
24	9.704179		9.768414		0.231586	9.935766	36
25	9.704395		9.768703		0.231297	9.935692	35
26	9.704610	3.58	9.768992	4.81	0.231008	9.935618	34
27	9.704825		9.769281		0.230719	9.935543	33
28	9.705040		9.769571		0.230429	9.935469	32
29	9.705254		9.769860		0.230140	9.935395	31
30	9.705469		9.770148		0.229852	9.935320	30
31	9.705683	3.57	9.770437	4.81	0.229563	9.935246	29
32	9.705898		9.770726		0.229274	9.935171	28
33	9.706112		9.771015		0.228985	9.935097	27
34	9.706326		9.771303		0.228697	9.935022	26
35	9.706539		9.771592		0.228408	9.934948	25
36	9.706753	3.56	9.771880	4.80	0.228120	9.934873	24
37	9.706967		9.772168		0.227832	9.934798	23
38	9.707180		9.772457		0.227543	9.934723	22
39	9.707393		9.772745		0.227255	9.934649	21
40	9.707606		9.773033		0.226967	9.934574	20
41	9.707819	3.55	9.773321	4.79	0.226679	9.934499	19
42	9.708032		9.773608		0.226392	9.934424	18
43	9.708245		9.773896		0.226104	9.934349	17
44	9.708458		9.774184		0.225816	9.934274	16
45	9.708670		9.774471		0.225529	9.934199	15
46	9.708882	3.53	9.774759	4.78	0.225241	9.934123	14
47	9.709094		9.775046		0.224954	9.934048	13
48	9.709306		9.775333		0.224667	9.933973	12
49	9.709518		9.775621		0.224379	9.933898	11
50	9.709730		9.775908		0.224092	9.933822	10
51	9.709941	3.52	9.776195	4.77	0.223805	9.933747	9
52	9.710153		9.776482		0.223518	9.933671	8
53	9.710364		9.776768		0.223232	9.933596	7
54	9.710575		9.777055		0.222945	9.933520	6
55	9.710786		9.777342		0.222658	9.933444	5
56	9.710997	3.51	9.777628	4.77	0.222372	9.933369	4
57	9.711208		9.777915		0.222085	9.933293	3
58	9.711419		9.778201		0.221799	9.933217	2
59	9.711629		9.778488		0.221512	9.933141	1
60	9.711839		9.778774		0.221226	9.933066	0
	Coan. 59		Coang. 59		Tang. 59	Sin. 59	1

I	Sin. 3I	I'	Tang. 3I	I'	Cotang. 3I	Cosin. 3I	I'
0	9.711839		9.778774		0.221226	9.933066	60
1	9.712050	3.50	9.779060	4.76	0.220940	9.932990	59
2	9.712260		9.779346		0.220654	9.932914	58
3	9.712469		9.779632		0.220368	9.932838	57
4	9.712679		9.779918		0.220082	9.932762	56
5	9.712889		9.780203		0.219797	9.932685	55
6	9.713098	3.49	9.780489		0.219511	9.932609	54
7	9.713308		9.780775		0.219225	9.932533	53
8	9.713517		9.781060		0.218940	9.932457	52
9	9.713726		9.781346		0.218654	9.932380	51
10	9.713935		9.781631		0.218369	9.932304	50
11	9.714144	3.48	9.781916	4.75	0.218084	9.932228	49
12	9.714352		9.782201		0.217799	9.932151	48
13	9.714561		9.782486		0.217514	9.932075	47
14	9.714769		9.782771		0.217229	9.931998	46
15	9.714978		9.783056		0.216944	9.931921	45
16	9.715186	3.46	9.783341	4.74	0.216659	9.931845	44
17	9.715394		9.783626		0.216374	9.931768	43
18	9.715602		9.783910		0.216090	9.931691	42
19	9.715809		9.784195		0.215805	9.931614	41
20	9.716017		9.784479		0.215521	9.931537	40
21	9.716224	3.45	9.784764	4.73	0.215236	9.931460	39
22	9.716432		9.785048		0.214952	9.931383	38
23	9.716639		9.785332		0.214668	9.931306	37
24	9.716846		9.785616		0.214384	9.931229	36
25	9.717053		9.785900		0.214100	9.931152	35
26	9.717259	3.44	9.786184		0.213816	9.931075	34
27	9.717466		9.786468		0.213532	9.930998	33
28	9.717673		9.786752		0.213248	9.930921	32
29	9.717879		9.787036		0.212964	9.930843	31
30	9.718085		9.787319		0.212681	9.930766	30
31	9.718291	3.43	9.787603	4.72	0.212397	9.930688	29
32	9.718497		9.787886		0.212114	9.930611	28
33	9.718703		9.788170		0.211830	9.930533	27
34	9.718909		9.788453		0.211547	9.930456	26
35	9.719114		9.788736		0.211264	9.930378	25
36	9.719320	3.42	9.789019		0.210981	9.930300	24
37	9.719525		9.789302		0.210698	9.930223	23
38	9.719730		9.789585		0.210415	9.930145	22
39	9.719935		9.789868		0.210132	9.930067	21
40	9.720140		9.790151		0.209849	9.929989	20
41	9.720345	3.41	9.790434	4.71	0.209566	9.929911	19
42	9.720549		9.790716		0.209284	9.929833	18
43	9.720754		9.790999		0.209001	9.929755	17
44	9.720958		9.791281		0.208719	9.929677	16
45	9.721162		9.791563		0.208437	9.929599	15
46	9.721366	3.40	9.791846	4.70	0.208154	9.929521	14
47	9.721570		9.792128		0.207872	9.929442	13
48	9.721774		9.792410		0.207590	9.929364	12
49	9.721978		9.792692		0.207308	9.929286	11
50	9.722181		9.792974		0.207026	9.929207	10
51	9.722385	3.39	9.793256	4.69	0.206744	9.929129	9
52	9.722588		9.793538		0.206462	9.929050	8
53	9.722791		9.793819		0.206181	9.928972	7
54	9.722994		9.794101		0.205899	9.928893	6
55	9.723197		9.794383		0.205617	9.928815	5
56	9.723400		9.794664		0.205336	9.928736	4
57	9.723603	3.38	9.794946		0.205054	9.928657	3
58	9.723805		9.795227		0.204773	9.928578	2
59	9.724007		9.795508		0.204492	9.928499	1
60	9.724210		9.795789		0.204211	9.928420	0
	Cosin. 58		Cotang. 58		Tang. 58	Sin. 58	I

	sin. 32	1°	Tang. 32	1°	Cotang. 32	Costa. 32	1°	
0	9.724210		9.795789		0.204211	9.928420		60
1	9.724412		9.796070		0.203930	9.928342		59
2	9.724614	3.36	9.796351	4.68	0.203649	9.928263	1.32	58
3	9.724816		9.796632		0.203368	9.928183		57
4	9.725017		9.796913		0.203087	9.928104		56
5	9.725219		9.797194		0.202806	9.928025		55
6	9.725420	3.35	9.797474	4.67	0.202525	9.927946	1.33	54
7	9.725622		9.797755		0.202245	9.927867		53
8	9.725823		9.798036		0.201964	9.927787		52
9	9.726024		9.798316		0.201684	9.927708		51
10	9.726225		9.798596		0.201404	9.927629		50
11	9.726426	3.34	9.798877	4.66	0.201123	9.927549	1.33	49
12	9.726626		9.799157		0.200843	9.927470		48
13	9.726827		9.799437		0.200563	9.927390		47
14	9.727027		9.799717		0.200283	9.927310		46
15	9.727228		9.799997		0.200003	9.927231		45
16	9.727428	3.33	9.800277	4.65	0.199723	9.927151	1.34	44
17	9.727628		9.800557		0.199443	9.927071		43
18	9.727828		9.800836		0.199164	9.926991		42
19	9.728027		9.801116		0.198884	9.926911		41
20	9.728227		9.801396		0.198604	9.926831		40
21	9.728427	3.32	9.801675	4.65	0.198325	9.926751	1.34	39
22	9.728626		9.801955		0.198045	9.926671		38
23	9.728825		9.802234		0.197766	9.926591		37
24	9.729024		9.802513		0.197487	9.926511		36
25	9.729223		9.802792		0.197208	9.926431		35
26	9.729422	3.31	9.803072	4.64	0.196928	9.926351	1.34	34
27	9.729621		9.803351		0.196649	9.926270		33
28	9.729820		9.803630		0.196370	9.926190		32
29	9.730018		9.803909		0.196091	9.926110		31
30	9.730217		9.804187		0.195813	9.926029		30
31	9.730415	3.30	9.804466	4.64	0.195534	9.925949	1.35	29
32	9.730613		9.804745		0.195255	9.925868		28
33	9.730811		9.805023		0.194977	9.925788		27
34	9.731009		9.805302		0.194698	9.925707		26
35	9.731206		9.805580		0.194420	9.925626		25
36	9.731404	3.29	9.805859	4.63	0.194141	9.925545	1.35	24
37	9.731602		9.806137		0.193863	9.925465		23
38	9.731799		9.806415		0.193585	9.925384		22
39	9.731996		9.806693		0.193307	9.925303		21
40	9.732193		9.806971		0.193029	9.925222		20
41	9.732390	3.28	9.807249	4.63	0.192751	9.925141	1.36	19
42	9.732587		9.807527		0.192473	9.925060		18
43	9.732784		9.807805		0.192195	9.924979		17
44	9.732980		9.808083		0.191917	9.924897		16
45	9.733177		9.808361		0.191639	9.924816		15
46	9.733373	3.27	9.808638	4.62	0.191362	9.924735	1.36	14
47	9.733569		9.808916		0.191084	9.924654		13
48	9.733765		9.809193		0.190807	9.924572		12
49	9.733961		9.809471		0.190529	9.924491		11
50	9.734155		9.809748		0.190252	9.924409		10
51	9.734353	3.26	9.810025	4.61	0.189975	9.924328	1.37	9
52	9.734548		9.810302		0.189698	9.924246		8
53	9.734744		9.810580		0.189420	9.924164		7
54	9.734939		9.810857		0.189143	9.924083		6
55	9.735135		9.811134		0.188866	9.924001		5
56	9.735330	3.25	9.811410	4.61	0.188590	9.923919	1.37	4
57	9.735525		9.811687		0.188313	9.923837		3
58	9.735719		9.811964		0.188036	9.923755		2
59	9.735914		9.812241		0.187759	9.923673		1
60	9.736109		9.812517		0.187483	9.923591		0
	Cosin. 57		Cotang. 57		Tang. 57	sin. 57		1

L. 33	1°	Tang. 33	1°	Cotang. 33	Cosin. 33	1°
16109		9.812517		0.187483	9.923591	60
16303	3.24	9.812794	4.61	0.187206	9.923509	59
16498		9.813070		0.186930	9.923427	58
16692		9.813347		0.186653	9.923345	57
16886		9.813623		0.186377	9.923263	56
17080		9.813899		0.186101	9.923181	55
17274	3.23	9.814176	4.60	0.185824	9.923098	54
17467		9.814452		0.185548	9.923016	53
17661		9.814728		0.185272	9.922933	52
17855		9.815004		0.184996	9.922851	51
18048		9.815280		0.184720	9.922768	50
18241	3.22	9.815555	4.59	0.184445	9.922686	49
18434		9.815831		0.184169	9.922603	48
18627		9.816107		0.183893	9.922520	47
18820		9.816382		0.183618	9.922438	46
19013		9.816658		0.183342	9.922355	45
19206	3.21	9.816933	4.58	0.183067	9.922272	44
19398		9.817209		0.182791	9.922189	43
19590		9.817484		0.182516	9.922106	42
19783		9.817759		0.182241	9.922023	41
19975		9.818035		0.181965	9.921940	40
20167	3.20	9.818310	4.58	0.181690	9.921857	39
20359		9.818585		0.181415	9.921774	38
20550		9.818860		0.181140	9.921691	37
20742		9.819135		0.180865	9.921607	36
20934		9.819410		0.180590	9.921524	35
21125	3.19	9.819684	4.57	0.180316	9.921441	34
21316		9.819959		0.180041	9.921357	33
21508		9.820234		0.179766	9.921274	32
21699		9.820508		0.179492	9.921190	31
21889	3.18	9.820783	4.57	0.179217	9.921107	30
22080		9.821057		0.178943	9.921023	29
22271		9.821332		0.178668	9.920939	28
22462		9.821606		0.178394	9.920856	27
22652		9.821880		0.178120	9.920772	26
22842	3.17	9.822154	4.56	0.177846	9.920688	25
23033		9.822429		0.177571	9.920604	24
23223		9.822703		0.177297	9.920520	23
23413		9.822977		0.177023	9.920436	22
23602		9.823251		0.176749	9.920352	21
23792	3.16	9.823524	4.56	0.176476	9.920268	20
23982		9.823798		0.176202	9.920184	19
24171		9.824072		0.175928	9.920099	18
24361		9.824345		0.175655	9.920015	17
24550		9.824619		0.175381	9.919931	16
24739	3.15	9.824893	4.55	0.175107	9.919846	15
24928		9.825166		0.174834	9.919762	14
25117		9.825439		0.174561	9.919677	13
25306		9.825713		0.174287	9.919593	12
25494		9.825986		0.174014	9.919508	11
25683	3.14	9.826259	4.54	0.173741	9.919424	10
25871		9.826532		0.173468	9.919339	9
26060		9.826805		0.173195	9.919254	8
26248		9.827078		0.172922	9.919169	7
26436		9.827351		0.172649	9.919085	6
26624	3.13	9.827624	4.54	0.172376	9.919000	5
26812		9.827897		0.172103	9.918915	4
26999		9.828170		0.171830	9.918830	3
27187		9.828442		0.171558	9.918745	2
27374		9.828715		0.171285	9.918659	1
27562		9.828987		0.171013	9.918574	0
n. 56		Cotang. 56		Tang. 56	Sin. 56	1

1	Sin. 34	1"	Tang. 34	1"	Cotang. 34	Cosin. 34	1"
0	9.747562		9.826967		0.171013	9.918574	60
1	9.747749		9.829260	4.54	0.170740	9.918489	59
2	9.747936	3.12	9.829532		0.170468	9.918404	58
3	9.748123		9.829805		0.170195	9.918318	57
4	9.748310		9.830077		0.169923	9.918233	56
5	9.748497		9.830349		0.169651	9.918147	55
6	9.748683	3.11	9.830621	4.53	0.169379	9.918062	54
7	9.748870		9.830893		0.169107	9.917976	53
8	9.749056		9.831165		0.168835	9.917891	52
9	9.749243		9.831437		0.168563	9.917805	51
10	9.749429		9.831709		0.168291	9.917719	50
11	9.749615	3.10	9.831981	4.52	0.168019	9.917634	49
12	9.749801		9.832253		0.167747	9.917548	48
13	9.749987		9.832525		0.167475	9.917462	47
14	9.750172		9.832796		0.167204	9.917376	46
15	9.750358		9.833068		0.166932	9.917290	45
16	9.750543	3.09	9.833339	4.51	0.166661	9.917204	44
17	9.750729		9.833611		0.166389	9.917118	43
18	9.750914		9.833882		0.166118	9.917032	42
19	9.751099		9.834154		0.165846	9.916946	41
20	9.751284		9.834425		0.165575	9.916859	40
21	9.751469	3.08	9.834696	4.50	0.165304	9.916773	39
22	9.751654		9.834967		0.165033	9.916687	38
23	9.751839		9.835238		0.164762	9.916600	37
24	9.752023		9.835509		0.164491	9.916514	36
25	9.752208		9.835780		0.164220	9.916427	35
26	9.752392	3.07	9.836051	4.49	0.163949	9.916341	34
27	9.752576		9.836322		0.163678	9.916254	33
28	9.752760		9.836593		0.163407	9.916167	32
29	9.752944		9.836864		0.163136	9.916081	31
30	9.753128		9.837134		0.162866	9.915994	30
31	9.753312	3.05	9.837405	4.48	0.162595	9.915907	29
32	9.753495		9.837675		0.162325	9.915820	28
33	9.753679		9.837946		0.162054	9.915733	27
34	9.753862		9.838216		0.161784	9.915646	26
35	9.754046		9.838487		0.161513	9.915559	25
36	9.754229		9.838757	4.47	0.161243	9.915472	24
37	9.754412		9.839027		0.160973	9.915385	23
38	9.754597		9.839297		0.160703	9.915297	22
39	9.754778		9.839568		0.160432	9.915210	21
40	9.754960		9.839838		0.160162	9.915123	20
41	9.755143	3.04	9.840108	4.46	0.159892	9.915035	19
42	9.755326		9.840378		0.159622	9.914948	18
43	9.755508		9.840648		0.159352	9.914860	17
44	9.755690		9.840917		0.159083	9.914773	16
45	9.755872		9.841187		0.158813	9.914685	15
46	9.756054	3.03	9.841457	4.45	0.158543	9.914598	14
47	9.756236		9.841727		0.158273	9.914510	13
48	9.756418		9.841996		0.158004	9.914422	12
49	9.756600		9.842266		0.157734	9.914334	11
50	9.756782		9.842535		0.157465	9.914246	10
51	9.756963	3.02	9.842805	4.44	0.157195	9.914158	9
52	9.757144		9.843074		0.156926	9.914070	8
53	9.757326		9.843343		0.156657	9.913982	7
54	9.757507		9.843612		0.156388	9.913894	6
55	9.757688		9.843882		0.156118	9.913806	5
56	9.757869	3.01	9.844151	4.43	0.155849	9.913718	4
57	9.758050		9.844420		0.155580	9.913630	3
58	9.758230		9.844689		0.155311	9.913541	2
59	9.758411		9.844958		0.155042	9.913453	1
60	9.758591		9.845227		0.154773	9.913365	0
	Cosin. 55		Cotang. 55		Tang. 55	Sin. 55	

I	Sin. 35	I'	Tang. 35	I'	Cotang. 35	Cosin. 35	I'
0	9.758591		9.845227		0.154773	9.913365	60
1	9.758772		9.845496		0.154504	9.913276	59
2	9.758952	3.00	9.845764	4.48	0.154236	9.913187	58
3	9.759132		9.846033		0.153967	9.913099	57
4	9.759312		9.846302		0.153698	9.913010	56
5	9.759492		9.846570		0.153430	9.912922	55
6	9.759672		9.846839		0.153161	9.912833	54
7	9.759852	1.99	9.847108		0.152892	9.912744	53
8	9.760031		9.847376		0.152624	9.912655	52
9	9.760211		9.847644		0.152356	9.912566	51
10	9.760390		9.847913		0.152087	9.912477	50
11	9.760569	2.98	9.848181	4.47	0.151819	9.912388	49
12	9.760748		9.848449		0.151551	9.912299	48
13	9.760927		9.848717		0.151283	9.912210	47
14	9.761106		9.848986		0.151014	9.912121	46
15	9.761285		9.849254		0.150746	9.912031	45
16	9.761464	2.97	9.849522	4.46	0.150478	9.911942	44
17	9.761642		9.849790		0.150210	9.911853	43
18	9.761821		9.850057		0.149942	9.911763	42
19	9.761999		9.850325		0.149675	9.911674	41
20	9.762177		9.850593		0.149407	9.911584	40
21	9.762356		9.850861		0.149139	9.911495	39
22	9.762534		9.851129		0.148871	9.911405	38
23	9.762712		9.851396		0.148604	9.911315	37
24	9.762889		9.851664		0.148336	9.911226	36
25	9.763067		9.851931		0.148069	9.911136	35
26	9.763245	2.96	9.852199	4.45	0.147801	9.911046	34
27	9.763422		9.852466		0.147534	9.910956	33
28	9.763600		9.852733		0.147267	9.910866	32
29	9.763777		9.853001		0.147000	9.910776	31
30	9.763954		9.853268		0.146732	9.910686	30
31	9.764131	2.95	9.853535	4.44	0.146465	9.910596	29
32	9.764308		9.853802		0.146198	9.910506	28
33	9.764485		9.854069		0.145931	9.910415	27
34	9.764662		9.854336		0.145664	9.910325	26
35	9.764838		9.854603		0.145397	9.910235	25
36	9.765015	2.94	9.854870	4.43	0.145130	9.910144	24
37	9.765191		9.855137		0.144863	9.910054	23
38	9.765367		9.855404		0.144596	9.909963	22
39	9.765544		9.855671		0.144329	9.909873	21
40	9.765720		9.855938		0.144062	9.909782	20
41	9.765896	2.93	9.856204	4.42	0.143796	9.909691	19
42	9.766072		9.856471		0.143529	9.909601	18
43	9.766247		9.856737		0.143263	9.909510	17
44	9.766423		9.857004		0.142996	9.909419	16
45	9.766598		9.857270		0.142730	9.909328	15
46	9.766774	2.92	9.857537	4.41	0.142463	9.909237	14
47	9.766949		9.857803		0.142197	9.909146	13
48	9.767124		9.858069		0.141931	9.909055	12
49	9.767300		9.858336		0.141664	9.908964	11
50	9.767475		9.858602		0.141398	9.908873	10
51	9.767649	2.91	9.858868	4.40	0.141132	9.908781	9
52	9.767824		9.859134		0.140866	9.908690	8
53	9.767999		9.859400		0.140600	9.908599	7
54	9.768173		9.859666		0.140334	9.908507	6
55	9.768348		9.859932		0.140068	9.908416	5
56	9.768522	2.90	9.860198	4.39	0.139802	9.908324	4
57	9.768697		9.860464		0.139536	9.908233	3
58	9.768871		9.860730		0.139270	9.908141	2
59	9.769045		9.860995		0.139005	9.908049	1
60	9.769219		9.861261		0.138739	9.907958	0
	Cosin. 54		Cotang. 54		Tang. 54	Sin. 54	I'

<i>i</i>	Sin. 36	<i>i</i> ⁿ	Tang. 36	<i>i</i> ⁿ	Cotang. 36	Costa. 36	<i>i</i> ⁿ
0	9.769219		9.861261		0.138739	9.907958	60
1	9.769393	2.86	9.861527	4.43	0.138473	9.907866	59
2	9.769566		9.861792		0.138208	9.907774	58
3	9.769740		9.862058		0.137942	9.907682	57
4	9.769913		9.862323		0.137677	9.907590	56
5	9.770087		9.862589		0.137411	9.907498	55
6	9.770260	2.86	9.862854	4.42	0.137146	9.907406	54
7	9.770433		9.863119		0.136881	9.907314	53
8	9.770606		9.863385		0.136615	9.907222	52
9	9.770779		9.863650		0.136350	9.907129	51
10	9.770952		9.863915		0.136085	9.907037	50
11	9.771125		9.864180		0.135820	9.906945	49
12	9.771298		9.864445		0.135555	9.906852	48
13	9.771470		9.864710		0.135290	9.906760	47
14	9.771643		9.864975		0.135025	9.906667	46
15	9.771815		9.865240		0.134760	9.906575	45
16	9.771987	2.87	9.865505	4.41	0.134495	9.906482	44
17	9.772159		9.865770		0.134230	9.906389	43
18	9.772331		9.866035		0.133965	9.906296	42
19	9.772503		9.866300		0.133700	9.906204	41
20	9.772675		9.866564		0.133436	9.906111	40
21	9.772847	2.86	9.866829	4.40	0.133171	9.906018	39
22	9.773018		9.867094		0.132906	9.905925	38
23	9.773190		9.867358		0.132642	9.905832	37
24	9.773361		9.867623		0.132377	9.905739	36
25	9.773533		9.867887		0.132113	9.905645	35
26	9.773704	2.85	9.868152	4.39	0.131848	9.905552	34
27	9.773875		9.868416		0.131584	9.905459	33
28	9.774046		9.868680		0.131320	9.905366	32
29	9.774217		9.868945		0.131055	9.905272	31
30	9.774388		9.869209		0.130791	9.905179	30
31	9.774558	2.84	9.869473	4.38	0.130527	9.905085	29
32	9.774729		9.869737		0.130263	9.904992	28
33	9.774899		9.870001		0.129999	9.904898	27
34	9.775070		9.870265		0.129735	9.904804	26
35	9.775240		9.870529		0.129471	9.904711	25
36	9.775410	2.83	9.870793	4.37	0.129207	9.904617	24
37	9.775580		9.871057		0.128943	9.904523	23
38	9.775750		9.871321		0.128679	9.904429	22
39	9.775920		9.871585		0.128415	9.904335	21
40	9.776090		9.871849		0.128151	9.904241	20
41	9.776259	2.82	9.872112	4.36	0.127888	9.904147	19
42	9.776429		9.872376		0.127624	9.904053	18
43	9.776598		9.872640		0.127360	9.903959	17
44	9.776767		9.872903		0.127097	9.903864	16
45	9.776937		9.873167		0.126833	9.903770	15
46	9.777106	2.81	9.873430	4.35	0.126570	9.903676	14
47	9.777275		9.873694		0.126306	9.903581	13
48	9.777444		9.873957		0.126043	9.903487	12
49	9.777613		9.874220		0.125780	9.903392	11
50	9.777781		9.874484		0.125516	9.903298	10
51	9.777950		9.874747		0.125253	9.903203	9
52	9.778119		9.875010		0.124990	9.903108	8
53	9.778287	2.80	9.875273	4.34	0.124727	9.903014	7
54	9.778455		9.875537		0.124463	9.902919	6
55	9.778624		9.875800		0.124200	9.902824	5
56	9.778792		9.876063		0.123937	9.902729	4
57	9.778960		9.876326	4.33	0.123674	9.902634	3
58	9.779128		9.876589		0.123411	9.902539	
59	9.779295		9.876852		0.123148	9.902444	
60	9.779463		9.877114		0.122886	9.902349	
	Costa. 53		Cotang. 53		Tang. 53	Sin. 53	

1°	Sin. 37	1°	Tang. 37	1°	Cotang. 37	Cosin. 37	1°
0	0.799463		0.877114		0.122886	0.902349	60
1	0.799631	2.79	0.877377	4.38	0.122623	0.902253	59
2	0.799798		0.877640		0.122360	0.902158	58
3	0.799966		0.877903		0.122097	0.902063	57
4	0.780133		0.878165		0.121835	0.901967	56
5	0.780300		0.878428		0.121572	0.901872	55
6	0.780467	2.78	0.878691	4.37	0.121309	0.901776	54
7	0.780634		0.878953		0.121047	0.901681	53
8	0.780801		0.879216		0.120784	0.901585	52
9	0.780968		0.879478		0.120522	0.901490	51
10	0.781134		0.879741		0.120259	0.901394	50
11	0.781301	2.77	0.880003	4.36	0.119997	0.901298	49
12	0.781468		0.880265		0.119735	0.901202	48
13	0.781634		0.880528		0.119472	0.901106	47
14	0.781800		0.880790		0.119210	0.901010	46
15	0.781966		0.881052		0.118948	0.900914	45
16	0.782132	2.76	0.881314	4.35	0.118686	0.900818	44
17	0.782298		0.881577		0.118423	0.900722	43
18	0.782464		0.881839		0.118161	0.900626	42
19	0.782630		0.882101		0.117899	0.900529	41
20	0.782796		0.882363		0.117637	0.900433	40
21	0.782961	2.75	0.882625	4.34	0.117375	0.900337	39
22	0.783127		0.882887		0.117113	0.900240	38
23	0.783292		0.883148		0.116852	0.900144	37
24	0.783458		0.883410		0.116590	0.900047	36
25	0.783623		0.883672		0.116328	0.899951	35
26	0.783788	2.74	0.883934	4.33	0.116066	0.899854	34
27	0.783953		0.884196		0.115804	0.899757	33
28	0.784118		0.884457		0.115543	0.899660	32
29	0.784282		0.884719		0.115281	0.899564	31
30	0.784447		0.884980		0.115020	0.899467	30
31	0.784612	2.73	0.885242	4.32	0.114758	0.899370	29
32	0.784776		0.885504		0.114496	0.899273	28
33	0.784941		0.885765		0.114235	0.899176	27
34	0.785105		0.886026		0.113974	0.899078	26
35	0.785269		0.886288		0.113712	0.898981	25
36	0.785433	2.72	0.886549	4.31	0.113451	0.898884	24
37	0.785597		0.886811		0.113189	0.898787	23
38	0.785761		0.887072		0.112928	0.898689	22
39	0.785925		0.887333		0.112667	0.898592	21
40	0.786089		0.887594		0.112406	0.898494	20
41	0.786252	2.71	0.887855	4.30	0.112145	0.898397	19
42	0.786416		0.888116		0.111884	0.898299	18
43	0.786579		0.888378		0.111622	0.898202	17
44	0.786742		0.888639		0.111361	0.898104	16
45	0.786906		0.888900		0.111100	0.898006	15
46	0.787069	2.70	0.889161	4.29	0.110839	0.897908	14
47	0.787232		0.889421		0.110579	0.897810	13
48	0.787395		0.889682		0.110318	0.897712	12
49	0.787557		0.889943		0.110057	0.897614	11
50	0.787720		0.890204		0.109796	0.897516	10
51	0.787883		0.890465		0.109535	0.897418	9
52	0.788045	2.69	0.890725	4.28	0.109275	0.897320	8
53	0.788208		0.890986		0.109014	0.897222	7
54	0.788370		0.891247		0.108753	0.897123	6
55	0.788532		0.891507		0.108493	0.897025	5
56	0.788694		0.891768		0.108232	0.896926	4
57	0.788856	2.68	0.892028	4.27	0.107972	0.896828	3
58	0.789018		0.892289		0.107711	0.896729	2
59	0.789180		0.892549		0.107451	0.896631	1
60	0.789342		0.892810		0.107190	0.896532	0
	Cosin. 52		Tang. 52		Cotang. 52	Sin. 52	1

I	Sin. 28	I'	Tang. 28	I'	Cotang. 28	Coela.	I'	
0	9.671609		9.725674		0.274326	9.945935		60
1	9.671847	3.95	9.725979	5.08	0.274021	9.945868	1.12	59
2	9.672084		9.726284		0.273716	9.945800		58
3	9.672321		9.726588		0.273412	9.945733		57
4	9.672558		9.726892		0.273108	9.945666		56
5	9.672795		9.727197		0.272803	9.945598		55
6	9.673032	3.94	9.727501	5.06	0.272499	9.945531	1.13	54
7	9.673268		9.727805		0.272195	9.945464		53
8	9.673505		9.728109		0.271891	9.945396		52
9	9.673741		9.728412		0.271588	9.945328		51
10	9.673977		9.728716		0.271284	9.945261		50
11	9.674213	3.93	9.729020	5.04	0.270980	9.945193	1.13	49
12	9.674448		9.729323		0.270677	9.945125		48
13	9.674684		9.729626		0.270374	9.945058		47
14	9.674919		9.729929		0.270071	9.944990		46
15	9.675155		9.730233		0.269767	9.944922		45
16	9.675390	3.91	9.730535	5.04	0.269465	9.944854	1.14	44
17	9.675624		9.730838		0.269162	9.944786		43
18	9.675859		9.731141		0.268859	9.944718		42
19	9.676094		9.731444		0.268556	9.944650		41
20	9.676328		9.731746		0.268254	9.944582		40
21	9.676562	3.90	9.732048	5.02	0.267952	9.944514	1.14	39
22	9.676796		9.732351		0.267649	9.944446		38
23	9.677030		9.732653		0.267347	9.944377		37
24	9.677264		9.732955		0.267045	9.944309		36
25	9.677498		9.733257		0.266743	9.944241		35
26	9.677731	3.88	9.733558	5.02	0.266442	9.944172	1.15	34
27	9.677964		9.733860		0.266140	9.944104		33
28	9.678197		9.734162		0.265838	9.944036		32
29	9.678430		9.734463		0.265537	9.943967		31
30	9.678663		9.734764		0.265236	9.943899		30
31	9.678895	3.87	9.735066	5.00	0.264934	9.943830	1.15	29
32	9.679128		9.735367		0.264633	9.943761		28
33	9.679360		9.735668		0.264332	9.943693		27
34	9.679592		9.735969		0.264031	9.943624		26
35	9.679824		9.736269		0.263731	9.943555		25
36	9.680056	3.86	9.736570	5.00	0.263430	9.943486	1.15	24
37	9.680288		9.736870		0.263130	9.943417		23
38	9.680519		9.737171		0.262829	9.943348		22
39	9.680750		9.737471		0.262529	9.943279		21
40	9.680982		9.737771		0.262229	9.943210		20
41	9.681213	3.84	9.738071	4.99	0.261929	9.943141	1.16	19
42	9.681443		9.738371		0.261629	9.943072		18
43	9.681674		9.738671		0.261329	9.943003		17
44	9.681905		9.738971		0.261029	9.942934		16
45	9.682135		9.739271		0.260729	9.942864		15
46	9.682365	3.83	9.739570	4.99	0.260430	9.942795	1.16	14
47	9.682595		9.739870		0.260130	9.942726		13
48	9.682825		9.740169		0.259831	9.942656		12
49	9.683055		9.740468		0.259532	9.942587		11
50	9.683284		9.740767		0.259233	9.942517		10
51	9.683514	3.82	9.741066	4.98	0.258934	9.942448	1.17	9
52	9.683743		9.741365		0.258635	9.942378		8
53	9.683972		9.741664		0.258336	9.942308		7
54	9.684201		9.741962		0.258038	9.942239		6
55	9.684430		9.742261		0.257739	9.942169		5
56	9.684658	3.80	9.742559	4.97	0.257441	9.942099	1.17	4
57	9.684887		9.742858		0.257142	9.942029		3
58	9.685115		9.743156		0.256844	9.941959		2
59	9.685343		9.743454		0.256546	9.941889		1
60	9.685571		9.743752		0.256248	9.941819		0
	Coela. 61		Cotang. 61		Tang. 61	Sin. 61		I

39	1 ^o	Tang. 39	1 ^o	Cotang. 39	Cosin. 39	1 ^o
88572		9.908309		0.091631	9.890503	50
89028	2.50	9.908628	4.30	0.091372	9.890400	59
89184		9.908886		0.091114	9.890298	58
89339		9.909144		0.090856	9.890195	57
89493		9.909402		0.090598	9.890093	56
89651		9.909660		0.090340	9.889990	55
89806	2.59	9.909918		0.090082	9.889888	54
89962		9.910177		0.089823	9.889785	53
90117		9.910435		0.089565	9.889682	52
90272		9.910693		0.089307	9.889579	51
90427		9.910951		0.089049	9.889477	50
90582	2.58	9.911209		0.088791	9.889374	49
90737		9.911467		0.088533	9.889271	48
90892		9.911725		0.088275	9.889168	47
901647		9.911982		0.088018	9.889064	46
901201		9.912240		0.087760	9.888961	45
901356	2.57	9.912498		0.087502	9.888858	44
901511		9.912756		0.087244	9.888755	43
901665		9.913014		0.086986	9.888651	42
901819		9.913271		0.086729	9.888548	41
901973		9.913529		0.086471	9.888444	40
902128		9.913787	4.29	0.086213	9.888341	39
902282		9.914044		0.085956	9.888237	38
902436		9.914302		0.085698	9.888134	37
902589		9.914560		0.085440	9.888030	36
902743		9.914817		0.085183	9.887926	35
902897	2.56	9.915075		0.084925	9.887822	34
903050		9.915332		0.084668	9.887718	33
903204		9.915590		0.084410	9.887614	32
903357		9.915847		0.084153	9.887510	31
903511		9.916104		0.083896	9.887406	30
903664	2.55	9.916362		0.083638	9.887302	29
903817		9.916619		0.083381	9.887198	28
903970		9.916877		0.083123	9.887093	27
904123		9.917134		0.082866	9.886989	26
904276		9.917391		0.082609	9.886885	25
904428	2.54	9.917648		0.082352	9.886780	24
904581		9.917906		0.082094	9.886676	23
904734		9.918163		0.081837	9.886571	22
904886		9.918420		0.081580	9.886466	21
905039		9.918677		0.081323	9.886362	20
905191	2.53	9.918934	4.28	0.081066	9.886257	19
905343		9.919191		0.080809	9.886152	18
905495		9.919448		0.080552	9.886047	17
905647		9.919705		0.080295	9.885942	16
905799		9.919962		0.080038	9.885837	15
905951		9.920219		0.079781	9.885732	14
906103	2.52	9.920476		0.079524	9.885627	13
906254		9.920733		0.079267	9.885522	12
906406		9.920990		0.079010	9.885416	11
906557		9.921247		0.078753	9.885311	10
906709	2.51	9.921503		0.078497	9.885205	9
906860		9.921760		0.078240	9.885100	8
907011		9.922017		0.077983	9.884994	7
907163		9.922274		0.077726	9.884889	6
907314		9.922530		0.077470	9.884783	5
907465		9.922787		0.077213	9.884677	4
907615	2.50	9.923044		0.076956	9.884572	3
907766		9.923300		0.076700	9.884466	2
907917		9.923557		0.076443	9.884360	1
908067		9.923814		0.076186	9.884254	0
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1	Sin. 30	1°	Tang. 30	1°	Coang. 30	Coan. 30	1°
0	9.698970		9.761439		0.238561	9.937531	60
1	9.699189	3.64	9.761731	4.86	0.238269	9.937458	59
2	9.699407		9.762023		0.237977	9.937385	58
3	9.699626		9.762314		0.237686	9.937312	57
4	9.699844		9.762606		0.237394	9.937238	56
5	9.700062		9.762897		0.237103	9.937165	55
6	9.700280	3.63	9.763188	4.85	0.236812	9.937092	54
7	9.700498		9.763479		0.236521	9.937019	53
8	9.700716		9.763770		0.236230	9.936946	52
9	9.700933		9.764061		0.235939	9.936872	51
10	9.701151		9.764352		0.235648	9.936799	50
11	9.701368	3.62	9.764643	4.84	0.235357	9.936725	49
12	9.701585		9.764933		0.235067	9.936652	48
13	9.701802		9.765224		0.234776	9.936578	47
14	9.702019		9.765514		0.234486	9.936505	46
15	9.702236		9.765805		0.234195	9.936431	45
16	9.702452	3.60	9.766095	4.83	0.233905	9.936357	44
17	9.702669		9.766385		0.233615	9.936284	43
18	9.702885		9.766675		0.233325	9.936210	42
19	9.703101		9.766965		0.233035	9.936136	41
20	9.703317		9.767255		0.232745	9.936062	40
21	9.703533	3.59	9.767545	4.82	0.232455	9.935988	39
22	9.703749		9.767834		0.232166	9.935914	38
23	9.703964		9.768124		0.231876	9.935840	37
24	9.704179		9.768414		0.231586	9.935766	36
25	9.704395		9.768703		0.231297	9.935692	35
26	9.704610	3.58	9.768992	4.81	0.231008	9.935618	34
27	9.704825		9.769281		0.230719	9.935543	33
28	9.705040		9.769571		0.230429	9.935469	32
29	9.705254		9.769860		0.230140	9.935395	31
30	9.705469		9.770148		0.229852	9.935320	30
31	9.705683	3.57	9.770437	4.81	0.229563	9.935246	29
32	9.705898		9.770726		0.229274	9.935171	28
33	9.706112		9.771015		0.228985	9.935097	27
34	9.706326		9.771303		0.228697	9.935022	26
35	9.706539		9.771592		0.228408	9.934948	25
36	9.706753	3.56	9.771880	4.80	0.228120	9.934873	24
37	9.706967		9.772168		0.227832	9.934798	23
38	9.707180		9.772457		0.227543	9.934723	22
39	9.707393		9.772745		0.227255	9.934649	21
40	9.707606		9.773033		0.226967	9.934574	20
41	9.707819	3.55	9.773321	4.79	0.226679	9.934499	19
42	9.708032		9.773608		0.226392	9.934424	18
43	9.708245		9.773896		0.226104	9.934349	17
44	9.708458		9.774184		0.225816	9.934274	16
45	9.708670		9.774471		0.225529	9.934199	15
46	9.708882	3.53	9.774759	4.78	0.225241	9.934123	14
47	9.709094		9.775046		0.224954	9.934048	13
48	9.709306		9.775333		0.224667	9.933973	12
49	9.709518		9.775621		0.224379	9.933898	11
50	9.709730		9.775908		0.224092	9.933822	10
51	9.709941	3.52	9.776195	4.78	0.223805	9.933747	9
52	9.710153		9.776482		0.223518	9.933671	8
53	9.710364		9.776768		0.223232	9.933596	7
54	9.710575		9.777055		0.222945	9.933520	6
55	9.710786		9.777342		0.222658	9.933445	5
56	9.710997	3.51	9.777628	4.77	0.222372	9.933369	4
57	9.711208		9.777915		0.222085	9.933293	3
58	9.711419		9.778201		0.221799	9.933217	2
59	9.711629		9.778488		0.221512	9.933141	1
60	9.711839		9.778774		0.221226	9.933066	0
	Coan. 59		Tang. 59		Tang. 59	Sin. 59	1

I	Sin. 3I	I'	Tang. 3I	I"	Cotang. 3I	Cosin. 3I	I"
0	9.711839		9.778774		0.221226	9.933066	60
1	9.712050	3.50	9.779060	4.78	0.220940	9.932990	59
2	9.712260		9.779346		0.220654	9.932914	58
3	9.712469		9.779632		0.220368	9.932838	57
4	9.712679		9.779918		0.220082	9.932762	56
5	9.712889		9.780203		0.219797	9.932685	55
6	9.713098	3.49	9.780489	4.77	0.219511	9.932609	54
7	9.713308		9.780775		0.219225	9.932533	53
8	9.713517		9.781060		0.218940	9.932457	52
9	9.713726		9.781346		0.218654	9.932380	51
10	9.713935		9.781631		0.218369	9.932304	50
11	9.714144	3.48	9.781916	4.75	0.218084	9.932228	49
12	9.714352		9.782201		0.217799	9.932151	48
13	9.714561		9.782486		0.217514	9.932075	47
14	9.714769		9.782771		0.217229	9.931998	46
15	9.714978		9.783056		0.216944	9.931921	45
16	9.715186	3.46	9.783341	4.74	0.216659	9.931845	44
17	9.715394		9.783626		0.216374	9.931768	43
18	9.715602		9.783910		0.216090	9.931691	42
19	9.715809		9.784195		0.215805	9.931614	41
20	9.716017		9.784479		0.215521	9.931537	40
21	9.716224	3.45	9.784764	4.73	0.215236	9.931460	39
22	9.716432		9.785048		0.214952	9.931383	38
23	9.716639		9.785332		0.214668	9.931306	37
24	9.716846		9.785616		0.214384	9.931229	36
25	9.717053		9.785900		0.214100	9.931152	35
26	9.717259	3.44	9.786184	4.72	0.213816	9.931075	34
27	9.717466		9.786468		0.213532	9.930998	33
28	9.717673		9.786752		0.213248	9.930921	32
29	9.717879		9.787036		0.212964	9.930843	31
30	9.718085		9.787319		0.212681	9.930766	30
31	9.718291	3.43	9.787603	4.71	0.212397	9.930688	29
32	9.718497		9.787886		0.212114	9.930611	28
33	9.718703		9.788170		0.211830	9.930533	27
34	9.718909		9.788453		0.211547	9.930456	26
35	9.719114		9.788736		0.211264	9.930378	25
36	9.719320	3.42	9.789019	4.70	0.210981	9.930300	24
37	9.719525		9.789302		0.210698	9.930223	23
38	9.719730		9.789585		0.210415	9.930145	22
39	9.719935		9.789868		0.210132	9.930067	21
40	9.720140		9.790151		0.209849	9.929989	20
41	9.720345	3.41	9.790434	4.69	0.209566	9.929911	19
42	9.720549		9.790716		0.209284	9.929833	18
43	9.720754		9.790999		0.209001	9.929755	17
44	9.720958		9.791281		0.208719	9.929677	16
45	9.721162		9.791563		0.208437	9.929599	15
46	9.721366	3.40	9.791846	4.68	0.208154	9.929521	14
47	9.721570		9.792128		0.207872	9.929442	13
48	9.721774		9.792410		0.207590	9.929364	12
49	9.721978		9.792692		0.207308	9.929286	11
50	9.722181		9.792974		0.207026	9.929207	10
51	9.722385	3.39	9.793256	4.67	0.206744	9.929129	9
52	9.722588		9.793538		0.206462	9.929050	8
53	9.722791		9.793819		0.206181	9.928972	7
54	9.722994		9.794101		0.205899	9.928893	6
55	9.723197		9.794383		0.205617	9.928815	5
56	9.723400		9.794664		0.205336	9.928736	4
57	9.723603	3.38	9.794946	4.66	0.205054	9.928657	3
58	9.723805		9.795227		0.204773	9.928578	2
59	9.724007		9.795508		0.204492	9.928499	1
60	9.724210		9.795789		0.204211	9.928420	0
	Cosin. 58		Cotang. 58		Tang. 58	Sin. 58	I

I	Sin. 32	I°	Tang. 32	I°	Cotang. 32	Costa. 32	I°
0	9.724210		9.795789		0.204211	9.928420	60
1	9.724412	3.36	9.796070	4.68	0.203930	9.928342	59
2	9.724614		9.796351		0.203649	9.928263	58
3	9.724816		9.796632		0.203368	9.928183	57
4	9.725017		9.796913		0.203087	9.928104	56
5	9.725219		9.797194		0.202806	9.928025	55
6	9.725420	3.35	9.797474	4.67	0.202525	9.927946	54
7	9.725622		9.797755		0.202245	9.927867	53
8	9.725823		9.798036		0.201964	9.927787	52
9	9.726024		9.798316		0.201684	9.927708	51
10	9.726225		9.798596		0.201404	9.927629	50
11	9.726426	3.34	9.798877	4.66	0.201123	9.927549	49
12	9.726626		9.799157		0.200843	9.927470	48
13	9.726827		9.799437		0.200563	9.927390	47
14	9.727027		9.799717		0.200283	9.927310	46
15	9.727228		9.799997		0.200003	9.927231	45
16	9.727428	3.33	9.800277	4.65	0.199723	9.927151	44
17	9.727628		9.800557		0.199443	9.927071	43
18	9.727828		9.800836		0.199164	9.926991	42
19	9.728027		9.801116		0.198884	9.926911	41
20	9.728227		9.801396		0.198604	9.926831	40
21	9.728427	3.32	9.801675	4.65	0.198325	9.926751	39
22	9.728626		9.801955		0.198045	9.926671	38
23	9.728825		9.802234		0.197766	9.926591	37
24	9.729024		9.802513		0.197487	9.926511	36
25	9.729223		9.802792		0.197208	9.926431	35
26	9.729422	3.31	9.803072	4.64	0.196928	9.926351	34
27	9.729621		9.803351		0.196649	9.926270	33
28	9.729820		9.803630		0.196370	9.926190	32
29	9.730018		9.803909		0.196091	9.926110	31
30	9.730217		9.804187		0.195813	9.926029	30
31	9.730415	3.30	9.804466	4.64	0.195534	9.925949	29
32	9.730613		9.804745		0.195255	9.925868	28
33	9.730811		9.805023		0.194977	9.925788	27
34	9.731009		9.805302		0.194698	9.925707	26
35	9.731206		9.805580		0.194420	9.925626	25
36	9.731404	3.29	9.805859	4.63	0.194141	9.925545	24
37	9.731602		9.806137		0.193863	9.925465	23
38	9.731799		9.806415		0.193585	9.925384	22
39	9.731996		9.806693		0.193307	9.925303	21
40	9.732193		9.806971		0.193029	9.925222	20
41	9.732390	3.28	9.807249	4.63	0.192751	9.925141	19
42	9.732587		9.807527		0.192473	9.925060	18
43	9.732784		9.807805		0.192195	9.924979	17
44	9.732980		9.808083		0.191917	9.924897	16
45	9.733177		9.808361		0.191639	9.924816	15
46	9.733373	3.27	9.808638	4.62	0.191362	9.924735	14
47	9.733569		9.808916		0.191084	9.924654	13
48	9.733765		9.809193		0.190807	9.924572	12
49	9.733961		9.809471		0.190529	9.924491	11
50	9.734157		9.809748		0.190252	9.924409	10
51	9.734353	3.26	9.810025	4.61	0.189975	9.924328	9
52	9.734548		9.810302		0.189698	9.924246	8
53	9.734744		9.810580		0.189420	9.924164	7
54	9.734939		9.810857		0.189143	9.924083	6
55	9.735135		9.811134		0.188866	9.924001	5
56	9.735330		9.811410		0.188590	9.923919	4
57	9.735525	3.25	9.811687	4.61	0.188313	9.923837	3
58	9.735719		9.811964		0.188036	9.923755	2
59	9.735914		9.812241		0.187759	9.923673	1
60	9.736109		9.812517		0.187483	9.923591	0
	Cosin. 57		Cotang. 57		Tang. 57	Sin. 57	I

Sin 43	1°	Tang. 43	1°	Cotang. 43	Cosin. 43	1°	
9.833783		9.969656		0.030344	9.864127		60
9.833919	2.26	9.969909	4.22	0.030091	9.864010	1.96	59
2.834054		9.970162		0.029838	9.863892		58
1.834189		9.970416		0.029584	9.863774		57
.834325		9.970669		0.029331	9.863656		56
834460		9.970922		0.029078	9.863538		55
834595	2.25	9.971175		0.028825	9.863419	1.97	54
134730		9.971429		0.028571	9.863301		53
34865		9.971682		0.028318	9.863183		52
34999		9.971935		0.028065	9.863064		51
35134		9.972188		0.027812	9.862946		50
5269	2.24	9.972441		0.027559	9.862827	1.98	49
54033		9.972695		0.027305	9.862709		48
5538		9.972948		0.027052	9.862590		47
56717		9.973201		0.026799	9.862471		46
58051		9.973454		0.026546	9.862353		45
59385	2.23	9.973707		0.026293	9.862234		44
60719		9.973960		0.026040	9.862115		43
62053		9.974213		0.025787	9.861996		42
63387		9.974466		0.025534	9.861877		41
64721		9.974720		0.025280	9.861758		40
66055		9.974973		0.025027	9.861638	1.99	39
67389		9.975226		0.024774	9.861519		38
68723		9.975479		0.024521	9.861400		37
70057		9.975732		0.024268	9.861280		36
71391		9.975985		0.024015	9.861161		35
72725	2.22	9.976238		0.023762	9.861041	2.00	34
74059		9.976491		0.023509	9.860922		33
75393		9.976744		0.023256	9.860802		32
76727		9.976997		0.023003	9.860682		31
78061		9.977250		0.022750	9.860562		30
79395		9.977503		0.022497	9.860442		29
80729		9.977756		0.022244	9.860322		28
82063		9.978009		0.021991	9.860202		27
83397		9.978262		0.021738	9.860082		26
84731	2.21	9.978515		0.021485	9.859962		25
86065		9.978768		0.021232	9.859842		24
87399		9.979021		0.020979	9.859721	2.01	23
88733		9.979274		0.020726	9.859601		22
90067		9.979527		0.020473	9.859480		21
91401		9.979780		0.020220	9.859360		20
92735	2.20	9.980033		0.019967	9.859239		19
94069		9.980286		0.019714	9.859119		18
95403		9.980538		0.019462	9.858998		17
96737		9.980791		0.019209	9.858877		16
98071		9.981044		0.018956	9.858756		15
99405		9.981297		0.018703	9.858635	2.02	14
1.00739		9.981550		0.018450	9.858514		13
1.02073		9.981803		0.018197	9.858393		12
1.03407		9.982056		0.017944	9.858272		11
1.04741		9.982309		0.017691	9.858151		10
1.06075	2.19	9.982562	4.21	0.017438	9.858029	2.03	9
1.07409		9.982814		0.017186	9.857908		8
1.08743		9.983067		0.016933	9.857786		7
1.10077		9.983320		0.016680	9.857665		6
1.11411		9.983573		0.016427	9.857543		5
1.12745		9.983826		0.016174	9.857422		4
1.14079	2.18	9.984079		0.015921	9.857300		3
1.15413		9.984332		0.015668	9.857178		2
1.16747		9.984584		0.015416	9.857056		1
1.18081		9.984837		0.015163	9.856934		0
1.19415		Cotang. 46		Tang. 46	Sin. 46		1

1	Sin. 44	1°	Tang. 44	1°	Cotang. 44	Cosin. 44	1°
0	9.841771		9.984837		0.015163	9.856934	60
1	9.841902		9.985090	4.21	0.014910	9.856812	59
2	9.842033		9.985343		0.014657	9.856690	58
3	9.842163		9.985596		0.014404	9.856568	57
4	9.842294		9.985848		0.014152	9.856446	56
5	9.842424		9.986101		0.013899	9.856323	55
6	9.842555		9.986354		0.013646	9.856201	54
7	9.842685	2.17	9.986607		0.013393	9.856078	53
8	9.842815		9.986860		0.013140	9.855956	52
9	9.842946		9.987112		0.012888	9.855833	51
10	9.843076		9.987365		0.012635	9.855711	50
11	9.843206		9.987618		0.012382	9.855588	49
12	9.843336	2.16	9.987871		0.012129	9.855465	48
13	9.843466		9.988123		0.011877	9.855342	47
14	9.843595		9.988376		0.011624	9.855219	46
15	9.843725		9.988629		0.011371	9.855096	45
16	9.843855		9.988882		0.011118	9.854973	44
17	9.843984		9.989134		0.010866	9.854850	43
18	9.844114		9.989387		0.010613	9.854727	42
19	9.844243		9.989640		0.010360	9.854603	41
20	9.844372		9.989893		0.010107	9.854480	40
21	9.844502	2.15	9.990145		0.009855	9.854356	39
22	9.844631		9.990398		0.009602	9.854233	38
23	9.844760		9.990651		0.009349	9.854109	37
24	9.844889		9.990903		0.009097	9.853986	36
25	9.845018		9.991156		0.008844	9.853862	35
26	9.845147		9.991409		0.008591	9.853738	34
27	9.845276		9.991662		0.008338	9.853614	33
28	9.845405		9.991914		0.008086	9.853490	32
29	9.845533		9.992167		0.007833	9.853366	31
30	9.845662		9.992420		0.007580	9.853242	30
31	9.845790	2.14	9.992672		0.007328	9.853118	29
32	9.845919		9.992925		0.007075	9.852994	28
33	9.846047		9.993178		0.006822	9.852869	27
34	9.846175		9.993431		0.006569	9.852745	26
35	9.846304		9.993683		0.006317	9.852620	25
36	9.846432		9.993936		0.006064	9.852496	24
37	9.846560	2.13	9.994189		0.005811	9.852371	23
38	9.846688		9.994441		0.005559	9.852247	22
39	9.846816		9.994694		0.005306	9.852122	21
40	9.846944		9.994947		0.005053	9.851997	20
41	9.847071		9.995199		0.004801	9.851872	19
42	9.847199		9.995452		0.004548	9.851747	18
43	9.847327		9.995705		0.004295	9.851622	17
44	9.847454		9.995957		0.004043	9.851497	16
45	9.847582		9.996210		0.003790	9.851372	15
46	9.847709	2.12	9.996463		0.003537	9.851246	14
47	9.847836		9.996715		0.003285	9.851121	13
48	9.847964		9.996968		0.003032	9.850996	12
49	9.848091		9.997221		0.002779	9.850870	11
50	9.848218		9.997473		0.002527	9.850745	10
51	9.848345	2.11	9.997726		0.002274	9.850619	9
52	9.848472		9.997979		0.002021	9.850493	8
53	9.848599		9.998231		0.001769	9.850368	7
54	9.848726		9.998484		0.001516	9.850242	6
55	9.848852		9.998737		0.001263	9.850116	5
56	9.848979		9.998989	4.21	0.001011	9.849990	4
57	9.849106		9.999242		0.000758	9.849864	3
58	9.849232		9.999495		0.000505	9.849738	2
59	9.849359		9.999747		0.000253	9.849611	1
60	9.849485		0.000000		0.000000	9.849485	0
	Cosin. 45		Cotang. 45		Tang. 45	Sin. 45	1

TABLES
CENTÉSIMALES.

1	Sin. 36	1°	Tang. 36	1°	Cotang. 36	Costs. 36	1°
0	9.769219		9.861261		0.138739	9.907958	60
1	9.769393	2.89	9.861527	4.43	0.138473	9.907806	59
2	9.769566		9.861792		0.138208	9.907774	58
3	9.769740		9.862058		0.137942	9.907682	57
4	9.769913		9.862323		0.137677	9.907590	56
5	9.770087		9.862589		0.137411	9.907498	55
6	9.770260	2.88	9.862854	4.42	0.137146	9.907406	54
7	9.770433		9.863119		0.136881	9.907314	53
8	9.770606		9.863385		0.136615	9.907222	52
9	9.770779		9.863650		0.136350	9.907129	51
10	9.770952		9.863915		0.136085	9.907037	50
11	9.771125	2.87	9.864180	4.41	0.135820	9.906945	49
12	9.771298		9.864445		0.135555	9.906852	48
13	9.771470		9.864710		0.135290	9.906760	47
14	9.771643		9.864975		0.135025	9.906667	46
15	9.771815		9.865240		0.134760	9.906575	45
16	9.771987	2.87	9.865505	4.41	0.134495	9.906482	44
17	9.772159		9.865770		0.134230	9.906389	43
18	9.772331		9.866035		0.133965	9.906296	42
19	9.772503		9.866300		0.133700	9.906204	41
20	9.772675	2.86	9.866564	4.40	0.133436	9.906111	40
21	9.772847		9.866829		0.133171	9.906018	39
22	9.773018		9.867094		0.132906	9.905925	38
23	9.773190	2.85	9.867358	4.39	0.132642	9.905832	37
24	9.773361		9.867623		0.132377	9.905739	36
25	9.773533		9.867887		0.132113	9.905645	35
26	9.773704	2.85	9.868152	4.38	0.131848	9.905552	34
27	9.773875		9.868416		0.131584	9.905459	33
28	9.774046		9.868680		0.131320	9.905366	32
29	9.774217	2.84	9.868945	4.37	0.131055	9.905272	31
30	9.774388		9.869209		0.130791	9.905179	30
31	9.774558	2.84	9.869473	4.36	0.130527	9.905085	29
32	9.774729		9.869737		0.130263	9.904992	28
33	9.774899		9.870001		0.129999	9.904898	27
34	9.775070	2.83	9.870265	4.35	0.129735	9.904804	26
35	9.775240		9.870529		0.129471	9.904711	25
36	9.775410	2.83	9.870793	4.34	0.129207	9.904617	24
37	9.775580		9.871057		0.128943	9.904523	23
38	9.775750		9.871321		0.128679	9.904429	22
39	9.775920	2.82	9.871585	4.33	0.128415	9.904335	21
40	9.776090		9.871849		0.128151	9.904241	20
41	9.776259	2.82	9.872112	4.32	0.127888	9.904147	19
42	9.776429		9.872376		0.127624	9.904053	18
43	9.776598		9.872640		0.127360	9.903959	17
44	9.776767	2.81	9.872903	4.31	0.127097	9.903864	16
45	9.776937		9.873167		0.126833	9.903770	15
46	9.777106		9.873430		0.126570	9.903676	14
47	9.777275	2.81	9.873694	4.30	0.126306	9.903581	13
48	9.777444		9.873957		0.126043	9.903487	12
49	9.777613		9.874220		0.125780	9.903392	11
50	9.777781	2.80	9.874484	4.29	0.125516	9.903298	10
51	9.777950		9.874747		0.125253	9.903203	9
52	9.778119		9.875010		0.124990	9.903108	8
53	9.778287	2.80	9.875273	4.28	0.124727	9.903014	7
54	9.778455		9.875537		0.124463	9.902919	6
55	9.778624		9.875800		0.124200	9.902824	5
56	9.778792	2.80	9.876063	4.27	0.123937	9.902729	4
57	9.778960		9.876326		0.123674	9.902634	3
58	9.779128		9.876589		0.123411	9.902539	2
59	9.779295	2.80	9.876852	4.26	0.123148	9.902444	1
60	9.779463		9.877114		0.122886	9.902349	0
	Cosin. 53		Cotang. 53		Tang. 53	Sin. 53	1

0.000

Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
1090		10.000000	6.895090		13.104910	0.99950
1690	8600			8600		
1123	8433	10.000000	903690	8433	096310	949
1396	8273		912123	8273	087877	948
1514	8118		920396	8118	079604	947
1683	7969		928514	7969	071486	946
	7825		936483	7825	063517	945
1808	7687		944308	7687	055692	944
1995	7553		951995	7553	048005	943
2148	7424		959548	7424	040452	942
2307	7299		966972	7299	033028	941
2471	7179		974271	7179	025729	0.99940
2640	7062		981450	7062	018550	939
2812	6948		988512	6949	011488	938
2986	6840		6.995461	6839	13.004539	937
3160	6733		7.002300	6733	12.997700	936
3333	6631		009033	6631	999067	935
3506	6531		015664	6531	984336	934
3679	6434		022195	6434	977805	933
3852	6340		028629	6340	971371	932
4025	6249		034969	6249	965031	931
4198	6160		041218	6160	958782	0.99930
4371	6074		047378	6075	952622	929
4544	5991		053453	5990	946547	928
4717	5909		059443	5909	940557	927
4890	5829		065352	5829	934648	926
5063	5752	10.000000	071181	5753	928819	925
5236	5678		076934	5677	923066	924
5409	5603		082611	5604	917389	923
5582	5533		088215	5532	911785	922
5755	5463		093747	5463	906253	921
5928	5395		099210	5395	900790	0.99920
6101	5329		104605	5329	895395	919
6274	5264		109934	5264	890066	918
6447	5201		115198	5201	884802	917
6620	5140		120399	5140	879601	916
6793	5079		125539	5080	874461	915
6966	5021		130619	5020	869381	914
7139	4963		135639	4964	864361	913
7312	4908		140603	4907	859397	912
7485	4852		145510	4853	854490	911
7658	4799		150363	4799	849637	0.99910
7831	4747		155162	4746	844838	909
8004	4695		159908	4695	840092	908
8177	4645		164603	4645	835397	907
8350	4595		169248	4596	830752	906
8523	4548		173844	4547	826156	905
8696	4500		178391	4501	821609	904
8869	4455		182892	4454	817108	903
9042	4409		187346	4409	812654	902
9215	4365		191755	4365	808245	901
9388		10.000000	7.196120		12.803880	0.99900

Cosin.	Df.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0.999

0.001

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	
0.00100	7.196120		10.000000	7.196120		12.803880	0.99
101	7.200441	4321	10.000000	7.200442	4322	12.799558	
102	04720	4279	9.999999	04720	4278	95280	
103	08957	4237		08958	4238	91043	
104	13153	4196		13154	4196	86846	
105	17309	4156		17310	4156	82690	
106	21426	4117		21426	4116	78574	
107	25504	4078		25504	4078	74496	
108	29543	4039		29544	4040	70456	
109	33546	4003		33547	4003	66453	
0.00110	37512	3966		37513	3966	62487	0.99
111	41443	3931		41443	3930	58557	
112	45338	3895		45338	3895	54662	
113	49198	3860		49199	3861	50801	
114	53025	3827		53025	3826	46975	
115	56818	3793		56818	3793	43182	
116	60578	3760		60578	3760	39422	
117	64306	3728		64306	3728	35694	
118	68002	3696		68002	3696	31998	
119	71667	3665		71667	3665	28333	
0.00120	75301	3634		75302	3635	24698	0.99
121	78905	3604		78906	3604	21094	
122	82479	3574		82480	3574	17520	
123	86025	3546		86026	3546	13975	
124	89541	3516		89542	3516	10458	
125	93030	3489	9.999999	93030	3488	06970	
126	96490	3460		96491	3461	03509	
127	7.209923	3433		7.209924	3433	12.700076	
128	7.303330	3407		7.303330	3406	12.696670	
129	06709	3379		06710	3380	93290	
0.00130	10063	3354		10064	3354	89936	0.99
131	13391	3328		13392	3328	86608	
132	16694	3303		16694	3302	83306	
133	19971	3277		19972	3278	80028	
134	23224	3253		23225	3253	76775	
135	26453	3229		26454	3229	73546	
136	29659	3206		29659	3205	70341	
137	32840	3181		32841	3182	67159	
138	35999	3159		36000	3159	64000	
139	39134	3135		39135	3135	60865	
0.00140	42248	3114		42249	3114	57751	0.99
141	45339	3091		45340	3091	54660	
142	48408	3069		48409	3069	51591	
143	51456	3048		51457	3048	48543	
144	54482	3026		54483	3026	45517	
145	57488	3006		57489	3006	42511	
146	60472	2984		60474	2985	39527	
147	63437	2965		63438	2964	36562	
148	66381	2944		66382	2944	33618	
149	69306	2925		69307	2925	30693	
0.00150	7.372211	2905	9.999999	7.372212	2905	12.627788	0.99
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	

0.001

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.00150	7.372211	2885	9.999999	7.372212	2886	12.627788	0.99850
151	75096	2867	9	75098	2866	24902	849
152	77963	2848	9	77964	2848	22056	848
153	80811	2829	9	80812	2829	19188	847
154	83640	2811	9	83641	2811	16359	846
155	86451	2793	9	86452	2793	13548	845
156	89244	2775	9	89245	2775	10755	844
157	92019	2758	9	92020	2758	07980	843
158	94777	2740	9	94778	2740	05222	842
159	7.397517	2722	9	7.397518	2723	12.602482	841
0.00160	7.400239	2706	9	7.400241	2706	12.599759	0.99840
161	02045	2689	9	02047	2689	97053	839
162	05634	2673	9	05636	2672	94364	838
163	08307	2656	9	08308	2657	91602	837
164	10963	2640	9	10965	2640	89035	836
165	13603	2625	9	13605	2624	86395	835
166	16228	2608	9	16229	2608	83771	834
167	18836	2593	9	18837	2593	81163	833
168	21420	2577	9	21430	2578	78570	832
169	24006	2562	9	24008	2562	75992	831
0.00170	26568	2548	9	26570	2547	73430	0.99830
171	29116	2532	8	29117	2532	70883	829
172	31648	2517	8	31649	2518	68351	828
173	34165	2504	8	34167	2503	65833	827
174	36669	2488	8	36670	2489	63330	826
175	39157	2475	9.999998	39159	2475	60841	825
176	41632	2461	8	41634	2460	58366	824
177	44093	2446	8	44094	2447	55906	823
178	46539	2433	8	46541	2433	53459	822
179	48972	2420	8	48974	2420	51026	821
0.00180	51392	2408	8	51394	2406	48607	0.99820
181	53798	2393	8	53800	2392	46200	819
182	56191	2379	8	56192	2380	43808	818
183	58570	2367	8	58572	2367	41428	817
184	60937	2354	8	60939	2354	39061	816
185	63291	2341	8	63293	2341	36707	815
186	65632	2329	8	65634	2329	34366	814
187	67961	2316	8	67963	2316	32037	813
188	70277	2304	8	70279	2304	29721	812
189	72581	2292	8	72583	2292	27417	811
0.00190	74873	2280	8	74875	2280	25125	0.99810
191	77153	2267	8	77155	2267	22846	809
192	79420	2257	8	79422	2257	20578	808
193	81677	2244	8	81679	2244	18322	807
194	83921	2233	8	83923	2233	16077	806
195	86154	2221	8	86156	2221	13844	805
196	88375	2210	8	88377	2211	11623	804
197	90585	2199	8	90588	2199	09413	803
198	92784	2188	8	92787	2187	07214	802
199	94972	2177	8	94974	2177	05026	801
0.00200	7.497149	2177	9.999998	7.497151	2177	12.502849	0.99800
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.998

0.002

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	A
0.00200	7.497149	2166	9.999998	7.497151	2166	12.502849	0.99
201	7.499315	2156	8	7.499317	2156	12.500683	
202	7.501471	2144	8	7.501473	2144	12.498527	
203	03615	2134	8	03617	2135	96383	
204	05749	2124	8	05752	2123	94249	
205	07873	2113	8	07875	2114	92125	
206	09986	2104	8	09989	2103	90011	
207	12090	2092	8	12092	2093	87908	
208	14182	2083	8	14185	2083	85815	
209	16265	2073	8	16268	2073	83732	
0.00210	18338	2064	8	18341	2063	81659	0.99
211	20402	2053	8	20404	2053	79596	
212	22455	2044	8	22457	2044	77543	
213	24499	2034	8	24501	2034	75499	
214	26533	2025	8	26535	2025	73465	
215	28558	2015	8	28560	2015	71440	
216	30573	2006	8	30575	2006	69425	
217	32579	1997	8	32581	1997	67419	
218	34576	1987	8	34578	1988	65422	
219	36563	1979	7	36566	1978	63434	
0.00220	38542	1969	7	38544	1970	61456	0.99
221	40511	1961	7	40514	1961	59486	
222	42472	1952	7	42475	1952	57525	
223	44424	1943	7	44427	1943	55574	
224	46367	1935	7	46370	1934	53630	
225	48302	1925	9.999997	48304	1926	51696	
226	50227	1918	7	50230	1918	49770	
227	52145	1909	7	52148	1909	47852	
228	54054	1900	7	54057	1900	45943	
229	55954	1893	7	55957	1893	44043	
0.00230	57847	1884	7	57850	1884	42150	0.99
231	59731	1876	7	59734	1876	40266	
232	61607	1868	7	61610	1868	38390	
233	63475	1860	7	63478	1860	36522	
234	65335	1852	7	65338	1852	34662	
235	67187	1844	7	67190	1844	32810	
236	69031	1836	7	69034	1836	30966	
237	70867	1829	7	70870	1829	29130	
238	72696	1821	7	72699	1821	27301	
239	74517	1813	7	74520	1813	25480	
0.00240	76330	1806	7	76333	1806	23667	0.99
241	78136	1798	7	78139	1798	21861	
242	79934	1791	7	79937	1791	20063	
243	81725	1784	7	81728	1784	18272	
244	83509	1776	7	83512	1776	16488	
245	85285	1769	7	85288	1769	14712	
246	87054	1762	7	87057	1762	12943	
247	88816	1755	7	88819	1755	11181	
248	90571	1747	7	90574	1747	9426	
249	92318	1741	9.999997	92321	1741	7779	
0.00250	7.594059	1741	9.999997	7.594062	1741	12.405938	0.99

0.997

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	A
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0.002.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.00250	7.594059		9.999997	7.594062		12.405938	0.99750
251	95793	1734		95796	1734	04204	749
252	97319	1726	7	97523	1727	02477	748
253	7.599239	1720	7	7.599243	1720	12.400757	747
254	7.600952	1713	7	7.600956	1713	12.399044	746
255	02659	1707	7	02662	1706	97338	745
		1700			1700		
256	04359	1693	7	04362	1693	95638	744
257	06052	1686	7	06055	1687	93945	743
258	07738	1680	6	07742	1680	92258	742
259	09418	1674	6	09422	1674	90578	741
0.00260	11092	1667	6	11096	1667	88904	0.99740
261	12759	1661	6	12763	1661	87237	739
262	14420	1654	6	14424	1654	85576	738
263	16074	1649	6	16078	1648	83922	737
264	17723	1642	6	17726	1642	82274	736
265	19365	1635	6	19368	1636	80632	735
		1630			1630		
266	21000	1630	6	21004	1630	78996	734
267	22630	1623	6	22634	1623	77366	733
268	24253	1618	6	24257	1618	75743	732
269	25871	1611	6	25875	1611	74125	731
0.00270	27482	1606	6	27486	1606	72514	0.99730
271	29088	1600	6	29092	1599	70908	729
272	30688	1593	6	30691	1594	69309	728
273	32281	1588	6	32285	1588	67715	727
274	33869	1582	6	33873	1582	66127	726
275	35451	1577	9.999996	35455	1577	64545	725
		1570			1570		
276	37028	1570	6	37032	1570	62968	724
277	38598	1565	6	38602	1565	61398	723
278	40163	1560	6	40167	1560	59833	722
279	41723	1554	6	41727	1554	58273	721
0.00280	43277	1548	6	43281	1548	56719	0.99720
281	44825	1543	6	44829	1543	55171	719
282	46368	1537	6	46372	1537	53628	718
283	47905	1532	6	47909	1532	52091	717
284	49437	1526	6	49441	1527	50559	716
285	50963	1521	6	50968	1521	49032	715
		1516			1516		
286	52484	1516	6	52489	1516	47511	714
287	54000	1511	6	54005	1510	45995	713
288	55511	1505	6	55515	1506	44485	712
289	57016	1500	6	57021	1500	42979	711
0.00290	58516	1495	6	58521	1495	41479	0.99710
291	60011	1490	6	60016	1490	39984	709
292	61501	1485	5	61506	1485	38494	708
293	62986	1480	5	62991	1479	37009	707
294	64466	1474	5	64470	1475	35530	706
295	65940	1470	5	65945	1470	34055	705
		1465			1465		
296	67410	1465	5	67415	1465	32585	704
297	68875	1460	5	68880	1460	31121	703
298	70335	1455	5	70339	1455	29661	702
299	71790	1450	5	71794	1450	28206	701
0.0300	7.673240	9.999995	7.673244			12.326756	0.99700
Arc.	Log. Sin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

I	Sin. 42	I'	Tang. 42	I''	Cotang. 42	Cosin. 42	I'	I''
0	9.825511		9.954437		0.045563	9.871073		60
1	9.825631	2 33	9.954691	4 23	0.045309	9.870960	1 89	59
2	9.825791		9.954946		0.045054	9.870846		58
3	9.825931		9.955200		0.044800	9.870732		57
4	9.826071		9.955454		0.044546	9.870618		56
5	9.826211		9.955708		0.044292	9.870504		55
6	9.826351		9.955961		0.044039	9.870390	1 90	54
7	9.826491		9.956215		0.043785	9.870276		53
8	9.826631		9.956469		0.043531	9.870161		52
9	9.826770		9.956723		0.043277	9.870047		51
10	9.826910		9.956977		0.043023	9.869933		50
11	9.827049	2 32	9.957231	4 23	0.042769	9.869818	1 91	49
12	9.827189		9.957485		0.042515	9.869704		48
13	9.827328		9.957739		0.042261	9.869589		47
14	9.827467		9.957993		0.042007	9.869474		46
15	9.827606		9.958247		0.041753	9.869360	1 92	45
16	9.827745		9.958500		0.041500	9.869245		44
17	9.827884		9.958754		0.041246	9.869130		43
18	9.828023		9.959008		0.040992	9.869015		42
19	9.828162		9.959262		0.040738	9.868900		41
20	9.828301		9.959516		0.040484	9.868785		40
21	9.828440	2 31	9.959769	4 23	0.040231	9.868670	1 93	39
22	9.828578		9.960023		0.039977	9.868555		38
23	9.828716		9.960277		0.039723	9.868440		37
24	9.828855		9.960530		0.039470	9.868324		36
25	9.828993		9.960784		0.039216	9.868209		35
26	9.829131	2 30	9.961038	4 22	0.038962	9.868093	1 94	34
27	9.829269		9.961292		0.038708	9.867978		33
28	9.829407		9.961545		0.038455	9.867862		32
29	9.829545		9.961799		0.038201	9.867747		31
30	9.829683		9.962052		0.037948	9.867631		30
31	9.829821		9.962306		0.037694	9.867515		29
32	9.829959		9.962560		0.037440	9.867399		28
33	9.830097	2 29	9.962813	4 22	0.037187	9.867283	1 94	27
34	9.830234		9.963067		0.036933	9.867167		26
35	9.830372		9.963320		0.036680	9.867051		25
36	9.830509		9.963574		0.036426	9.866935		24
37	9.830646		9.963828		0.036172	9.866819		23
38	9.830784	2 29	9.964081	4 22	0.035919	9.866703	1 94	22
39	9.830921		9.964335		0.035665	9.866586		21
40	9.831058		9.964588		0.035412	9.866470		20
41	9.831195	2 28	9.964842	4 22	0.035158	9.866353	1 95	19
42	9.831332		9.965095		0.034905	9.866237		18
43	9.831469		9.965349		0.034651	9.866120		17
44	9.831606		9.965602		0.034398	9.866004		16
45	9.831742		9.965855		0.034145	9.865887		15
46	9.831879		9.966109		0.033891	9.865770		14
47	9.832015	2 27	9.966362	4 22	0.033638	9.865653	1 95	13
48	9.832152		9.966616		0.033384	9.865536		12
49	9.832288		9.966869		0.033131	9.865419		11
50	9.832425		9.967123		0.032877	9.865302		10
51	9.832561	2 27	9.967376	4 22	0.032624	9.865185	1 95	9
52	9.832697		9.967629		0.032371	9.865068		8
53	9.832833		9.967883		0.032117	9.864950		7
54	9.832969		9.968136		0.031864	9.864833		6
55	9.833105		9.968389		0.031611	9.864716		5
56	9.833241	2 26	9.968643	4 22	0.031357	9.864598	1 96	4
57	9.833377		9.968896		0.031104	9.864481		3
58	9.833512		9.969149		0.030851	9.864363		2
59	9.833648		9.969403		0.030597	9.864245		1
60	9.833783		9.969656		0.030344	9.864127		0
	Cosin. 47		Cotang. 47		Tang. 47		Sin. 47	I

I	Sin 43	I'	Tang. 43	I'	Cotang. 43	Cosin. 43	I'
0	9.833783		9.969656		0.030344	9.864127	60
1	9.833919		9.969909	4.12	0.030091	9.864010	59
2	9.834054	2.26	9.970162		0.029838	9.863892	58
3	9.834189		9.970416		0.029584	9.863774	57
4	9.834325		9.970669		0.029331	9.863656	56
5	9.834460		9.970922		0.029078	9.863538	55
6	9.834595		9.971175		0.028825	9.863419	54
7	9.834730	2.25	9.971429		0.028571	9.863301	53
8	9.834865		9.971682		0.028318	9.863183	52
9	9.834999		9.971935		0.028065	9.863064	51
10	9.835134		9.972188		0.027812	9.862946	50
11	9.835269	2.24	9.972441		0.027559	9.862827	49
12	9.835403		9.972695		0.027305	9.862709	48
13	9.835538		9.972948		0.027052	9.862590	47
14	9.835672	2.23	9.973201		0.026799	9.862471	46
15	9.835807		9.973454		0.026546	9.862353	45
16	9.835941		9.973707		0.026293	9.862234	44
17	9.836075	2.22	9.973960		0.026040	9.862115	43
18	9.836209		9.974213		0.025787	9.861996	42
19	9.836343		9.974466		0.025534	9.861877	41
20	9.836477		9.974720		0.025280	9.861758	40
21	9.836611		9.974973		0.025027	9.861638	39
22	9.836745	2.21	9.975226		0.024774	9.861519	38
23	9.836878		9.975479		0.024521	9.861400	37
24	9.837012		9.975732		0.024268	9.861280	36
25	9.837146		9.975985		0.024015	9.861161	35
26	9.837279	2.20	9.976238		0.023762	9.861041	34
27	9.837412		9.976491		0.023509	9.860922	33
28	9.837546		9.976744		0.023256	9.860802	32
29	9.837679	2.19	9.976997		0.023003	9.860682	31
30	9.837812		9.977250		0.022750	9.860562	30
31	9.837945		9.977503		0.022497	9.860442	29
32	9.838078		9.977756		0.022244	9.860322	28
33	9.838211	2.18	9.978009		0.021991	9.860202	27
34	9.838344		9.978262		0.021738	9.860082	26
35	9.838477		9.978515		0.021485	9.859962	25
36	9.838610		9.978768		0.021232	9.859842	24
37	9.838742	2.17	9.979021		0.020979	9.859721	23
38	9.838875		9.979274		0.020726	9.859601	22
39	9.839007		9.979527		0.020473	9.859480	21
40	9.839140		9.979780		0.020220	9.859360	20
41	9.839272	2.16	9.980033		0.019967	9.859239	19
42	9.839404		9.980286		0.019714	9.859119	18
43	9.839536		9.980538		0.019462	9.858998	17
44	9.839668	2.15	9.980791		0.019209	9.858877	16
45	9.839800		9.981044		0.018956	9.858756	15
46	9.839932		9.981297		0.018703	9.858635	14
47	9.840064		9.981550		0.018450	9.858514	13
48	9.840196	2.14	9.981803		0.018197	9.858393	12
49	9.840328		9.982056		0.017944	9.858272	11
50	9.840459		9.982309		0.017691	9.858151	10
51	9.840591		9.982562	4.21	0.017438	9.858029	9
52	9.840722		9.982814		0.017186	9.857908	8
53	9.840854	2.13	9.983067		0.016933	9.857786	7
54	9.840985		9.983320		0.016680	9.857665	6
55	9.841116		9.983573		0.016427	9.857543	5
56	9.841247		9.983826		0.016174	9.857422	4
57	9.841378	2.12	9.984079		0.015921	9.857300	3
58	9.841509		9.984332		0.015668	9.857178	2
59	9.841640		9.984584		0.015416	9.857056	1
60	9.841771		9.984837		0.015163	9.856934	0
	Cosin. 46		Cotang. 46		Tang. 46	Sin. 46	I

I	Sin. 44	I°	Tang. 44	I°	Corang. 44	Cosin. 44	I°
0	9.841771		9.984837		0.015163	9.856034	
1	9.841902		9.985090	4 21	0.014910	9.856812	2 04
2	9.842033		9.985343		0.014657	9.856600	
3	9.842163	2 18	9.985596		0.014404	9.856568	2 04
4	9.842294		9.985848		0.014152	9.856446	
5	9.842424		9.986101		0.013899	9.856323	55
6	9.842555	2 17	9.986354		0.013646	9.856201	54
7	9.842685		9.986607		0.013393	9.856078	53
8	9.842815		9.986860		0.013140	9.855956	52
9	9.842946		9.987112		0.012888	9.855833	51
10	9.843076		9.987365		0.012635	9.855711	50
11	9.843206	2 16	9.987618		0.012382	9.855588	49
12	9.843336		9.987871		0.012129	9.855465	48
13	9.843466		9.988123		0.011877	9.855342	47
14	9.843595		9.988376		0.011624	9.855219	46
15	9.843725		9.988629		0.011371	9.855096	45
16	9.843855	2 15	9.988882		0.011118	9.854973	44
17	9.843984		9.989134		0.010866	9.854850	43
18	9.844114		9.989387		0.010613	9.854727	42
19	9.844243		9.989640		0.010360	9.854603	41
20	9.844372		9.989893		0.010107	9.854480	40
21	9.844502	2 15	9.990145		0.009855	9.854356	39
22	9.844631		9.990398		0.009602	9.854233	38
23	9.844760		9.990651		0.009349	9.854109	37
24	9.844889		9.990903		0.009097	9.853986	36
25	9.845018		9.991156		0.008844	9.853862	35
26	9.845147	2 14	9.991409		0.008591	9.853738	34
27	9.845276		9.991662		0.008338	9.853614	33
28	9.845405		9.991914		0.008086	9.853490	32
29	9.845533		9.992167		0.007833	9.853366	31
30	9.845662		9.992420		0.007580	9.853242	30
31	9.845790	2 14	9.992672		0.007328	9.853118	29
32	9.845919		9.992925		0.007075	9.852994	28
33	9.846047		9.993178		0.006822	9.852869	27
34	9.846175		9.993431		0.006569	9.852745	26
35	9.846304	2 13	9.993683		0.006317	9.852620	25
36	9.846432		9.993936		0.006064	9.852496	24
37	9.846560		9.994189		0.005811	9.852371	23
38	9.846688		9.994441		0.005559	9.852247	22
39	9.846816		9.994694		0.005306	9.852122	21
40	9.846944	2 13	9.994947		0.005053	9.851997	20
41	9.847071		9.995199		0.004801	9.851872	19
42	9.847199		9.995452		0.004548	9.851747	18
43	9.847327	2 12	9.995705		0.004295	9.851622	17
44	9.847454		9.995957		0.004043	9.851497	16
45	9.847582		9.996210		0.003790	9.851372	15
46	9.847709	2 12	9.996463		0.003537	9.851246	14
47	9.847836		9.996715		0.003285	9.851121	13
48	9.847964		9.996968		0.003032	9.850996	12
49	9.848091		9.997221		0.002779	9.850870	11
50	9.848218	2 11	9.997473		0.002527	9.850745	10
51	9.848345		9.997726		0.002274	9.850619	9
52	9.848472		9.997979		0.002021	9.850493	8
53	9.848599		9.998231		0.001769	9.850368	7
54	9.848726		9.998484		0.001516	9.850242	6
55	9.848852	2 11	9.998737		0.001263	9.850116	5
56	9.848979		9.998989	4 21	0.001011	9.849990	4
57	9.849106		9.999242		0.000758	9.849864	3
58	9.849232		9.999495		0.000505	9.849738	2
59	9.849359		9.999747		0.000253	9.849611	1
60	9.849485		0.000000		0.000000	9.849485	0
	Cosin. 45		Corang. 45		Tang. 45	Sin. 45	

TABLES
ENTÉSIMALES.

0.005.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. C	Arc.
0.00500	7.895085		9.999987	7.895099		12.1049	0.99
501	5953	868	7	5067	868	40	3
502	6819	866	7	6833	866	31	7
503	7683	864	6	7697	864	23	3
504	8546	863	6	8560	863	14	1
505	7.899407	861	6	7.899420	860	12.1005	0
506	7.900266	859	6	7.900280	860	12.0997	1
507	1123	857	6	1137	857	88	3
508	1979	856	6	1993	856	80	7
509	2833	854	6	2847	854	71	3
0.00510	3685	852	6	3699	852	63	0
511	4536	851	6	4550	851	54	0
512	5385	849	6	5399	849	46	0
513	6233	848	6	6247	848	37	5
514	7078	845	6	7092	845	29	0
515	7922	844	6	7937	845	20	6
516	8765	843	6	8779	842	12	2
517	7.909606	841	6	7.909620	841	12.0938	8
518	7.910445	839	6	7.910459	839	12.0895	4
519	1282	837	6	1297	838	80	0
0.00520	2118	836	6	2133	836	78	6
521	2953	835	6	2967	834	70	3
522	3786	833	5	3800	833	62	0
523	4617	831	5	4631	831	53	6
524	5446	829	5	5461	830	45	3
525	6274	828	9.999985	6289	828	37	1
526	7101	827	5	7116	827	288	
527	7926	825	5	7940	824	206	
528	8749	823	5	8764	824	123	
529	7.919571	822	5	7.919586	822	12.08041	
0.00530	7.920391	820	5	7.920406	820	12.07959	
531	1209	818	5	1225	819	877	
532	2027	818	5	2042	817	795	
533	2842	815	5	2857	815	714	
534	3656	814	5	3671	814	632	
535	4469	813	5	4484	813	551	
536	5280	811	5	5295	811	470	
537	6089	809	5	6105	810	389	
538	6897	808	5	6913	808	308	
539	7704	807	4	7719	806	228	
0.00540	8508	804	4	8524	805	147	
541	7.929312	804	4	7.929328	804	12.070672	
542	7.930114	802	4	7.930130	802	12.069870	
543	0914	800	4	0930	800	907	
544	1714	800	4	1729	799	827	
545	2511	797	4	2527	798	747	
546	3307	796	4	3323	796	667	
547	4102	795	4	4118	795	588	
548	4895	793	4	4911	793	508	
549	5687	792	4	5703	792	429	
0.00550	7.936477	790	9.999984	7.936493	790	12.063507	
Arc.	Log. Cos.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	

0.005.

Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
7.936477		9.999984	7.936493		12.063507	0.99450
7266	789		7282	789		
8054	788	4	8070	788	2718	449
8840	786	4	8856	786	1930	448
7.939624	784	4	7.939641	785	1144	447
7.940407	783	4	7.940424	783	12.060359	446
	782			782	12.059576	445
1189	781	3	1206	780	8794	444
1970	779	3	1986	779	8014	443
2749	777	3	2765	778	7235	442
3526	776	3	3543	776	6457	441
4302	775	3	4319	775	5681	0.99440
5077	774	3	5094	774	4906	439
5851	772	3	5868	772	4133	438
6623	770	3	6640	770	3360	437
7393	770	3	7410	770	2590	436
8163	768	3	8180	768	1820	435
8931	766	3	8948	766	1052	434
7.949697	766	3	7.949714	766	12.050286	433
7.950463	763	3	7.950480	764	12.049520	432
1226	763	3	1244	762	8756	431
1989	761	3	2006	762	7994	0.99430
2750	760	3	2768	760	7232	429
3510	759	3	3528	758	6472	428
4269	759	2	4286	758	5714	427
5026	757	2	5044	756	4957	426
5782	756	9.999982	5800	754	4201	425
6536	754	2	6554	754	3446	424
7290	752	2	7308	752	2692	423
8042	751	2	8060	750	1940	422
8793	749	2	8810	750	1190	421
7.959542	748	2	7.959560	748	12.040440	0.99420
7.960290	747	2	7.960308	747	12.039692	419
1037	745	2	1055	746	8945	418
1782	745	2	1801	744	8199	417
2527	743	2	2545	743	7455	416
3270	741	2	3288	742	6712	415
4011	741	2	4030	740	5970	414
4752	739	2	4770	738	5230	413
5491	738	1	5510	736	4490	412
6229	737	1	6248	736	3752	411
6966	735	1	6984	736	3016	0.99410
7701	734	1	7720	734	2280	409
8435	733	1	8454	733	1546	408
9168	732	1	9187	732	0813	407
7.969900	731	1	7.969919	731	12.030081	406
7.970631	729	1	7.970650	729	12.029351	405
1360	728	1	1379	728	8621	404
2088	727	1	2107	727	7893	403
2815	725	1	2834	726	7166	402
3540	725	1	3560	724	6441	401
7.974265	725	9.999981	7.974284	724	12.025716	0.99400

0.994.

Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0. 006.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	
0.00600	7.974265	723	9.999981	7.974284	723	12.025716	0.9
601	4988	722	1	5007	722	4993	
602	5710	721	1	5729	721	4271	
603	6431	719	1	6450	720	3550	
604	7150	719	1	7170	718	2830	
605	7869	717	0	7888	718	2112	
606	8586	716	0	8606	716	1394	
607	7.979302	715	0	7.979322	715	12.020678	
608	7.980017	714	0	7.980037	713	12.019963	
609	0731	712	0	0750	713	0250	
0.00610	1443	711	0	1463	711	8537	0.9
611	2154	711	0	2174	711	7826	
612	2865	709	0	2885	709	7115	
613	3574	708	0	3594	708	6406	
614	4282	706	0	4302	707	5698	
615	4988	706	0	5009	705	4992	
616	5694	704	0	5714	705	4286	
617	6398	704	0	6419	703	3581	
618	7102	702	0	7122	702	2878	
619	7804	701	80	7824	701	2176	
0.00620	8505	700	79	8525	700	1475	0.9
621	9205	698	9	9225	699	0775	
622	7.989903	698	9	7.989924	698	12.010076	
623	7.990601	697	9	7.990622	698	12.009378	
624	1298	695	9	1318	696	8682	
625	1993	694	9.999979	2014	696	7986	
626	2687	693	9	2708	694	7292	
627	3380	693	9	3402	692	6599	
628	4073	691	9	4094	691	5906	
629	4764	689	9	4785	690	5215	
0.00630	5453	689	9	5475	689	4525	0.9
631	6142	688	9	6164	687	3837	
632	6830	686	9	6851	687	3149	
633	7516	686	9	7538	686	2462	
634	8202	684	9	8224	684	1777	
635	8880	684	8	8908	683	1092	
636	7.999570	682	8	7.999591	683	12.000409	
637	8.000252	681	8	8.000274	681	11.999726	
638	0933	680	8	0955	680	9045	
639	1613	680	8	1635	680	8365	
0.00640	2293	678	8	2315	678	7686	0.9
641	2971	677	8	2993	677	7007	
642	3648	676	8	3670	676	6330	
643	4324	674	8	4346	675	5654	
644	4998	674	8	5021	674	4979	
645	5672	673	8	5695	672	4306	
646	6345	672	8	6367	672	3633	
647	7017	670	8	7039	671	2961	
648	7687	670	8	7710	670	2290	
649	8357	669	7	8380	668	1620	
0.00650	8.009026	669	9.999977	8.009048	668	11.999052	0.9
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	A

0.001

Arg.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arg.
100150	7.372211		9.999999	7.372212		12.627788	0.99850
151	75096	2885	9	75098	2886	24902	849
152	77963	2867	9	77964	2866	22036	848
153	80811	2848	9	80812	2848	19188	847
154	83640	2829	9	83641	2829	16359	846
155	86451	2811	9	86452	2811	13548	845
156	89244	2793	9	89245	2793	10755	844
157	92019	2775	9	92020	2775	07980	843
158	94777	2758	9	94778	2758	05222	842
159	7.397517	2740	9	7.397518	2740	12.602482	841
1.00160	7.400239	2722	9	7.400241	2723	12.599759	0.99840
161	02045	2706	9	02047	2706	97053	839
162	05634	2689	9	05636	2689	94364	838
163	08307	2673	9	08308	2672	91602	837
164	10063	2656	9	10065	2657	89035	836
165	13603	2640	9	13605	2640	86395	835
166	16228	2625	9	16229	2624	83771	834
167	18836	2608	9	18837	2608	81163	833
168	21429	2593	9	21430	2593	78570	832
169	24006	2577	9	24008	2578	75992	831
1.00170	26568	2562	9	26570	2562	73430	0.99830
171	29116	2548	8	29117	2547	70883	829
172	31648	2532	8	31649	2532	68351	828
173	34165	2517	8	34167	2518	65833	827
174	36669	2504	8	36670	2503	63330	826
175	39157	2488	9.999998	39159	2489	60841	825
176	41632	2475	8	41634	2475	58366	824
177	44093	2461	8	44094	2460	55906	823
178	46539	2446	8	46541	2447	53459	822
179	48972	2433	8	48974	2433	51026	821
1.00180	51392	2420	8	51394	2420	48607	0.99820
181	53798	2408	8	53800	2406	46200	819
182	56191	2393	8	56192	2392	43808	818
183	58570	2379	8	58572	2380	41428	817
184	60937	2367	8	60939	2367	39061	816
185	63291	2354	8	63293	2354	36707	815
186	65632	2341	8	65634	2341	34366	814
187	67961	2329	8	67963	2329	32037	813
188	70277	2316	8	70279	2316	29721	812
189	72581	2304	8	72583	2304	27417	811
1.00190	74873	2292	8	74875	2292	25125	0.99810
191	77153	2280	8	77155	2280	22846	809
192	79420	2267	8	79422	2267	20578	808
193	81677	2255	8	81679	2257	18322	807
194	83921	2244	8	83923	2244	16077	806
195	86154	2233	8	86156	2233	13844	805
196	88375	2221	8	88377	2221	11623	804
197	90585	2210	8	90588	2211	09413	803
198	92784	2199	8	92787	2199	07214	802
199	94972	2188	8	94974	2187	05026	801
1.00200	7.497149	2177	9.999998	7.497151	2177	12.502849	0.99800
Arg.	Log. Sin.	Dif.	Log. Cosin.	Log. Cot.	Dif.	Log. Tang.	Arg.

0.007.

rb.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Log. Sec.
0700	8.041209		9.999974	8.041235		11.958765	0.999999
701	1829	620		1855	620	8145	
702	2448	610		2475	620	7525	
703	3066	618		3093	618	6907	
704	3684	618		3710	617	6290	
705	4300	616		4327	617	5673	
706	4916	616		4942	615	5058	
707	5530	614		5557	615	4443	
708	6144	614		6171	614	3829	
709	6757	613		6784	613	3216	
0.00710	7369	612		7396	612	2604	
711	7980	611		8008	610	1993	
712	8591	611		8618	610	1382	
713	9200	609		9228	610	0772	
714	8.049809	609		8.049836	608	11.950164	
715	8.050417	608		8.050444	608	11.949556	
716	1024	607		1051	607	8949	
717	1630	606		1657	606	8343	
718	2235	605		2263	606	7737	
719	2840	605		2867	604	7133	
0.00720	3443	603		3471	604	6529	
721	4046	603		4074	603	5926	
722	4648	602		4676	602	5324	
723	5249	601		5277	601	4723	
724	5849	600		5877	600	4123	
725	6449	600	9.999972	6477	600	3523	
726	7047	598		7075	598	2925	
727	7645	598		7673	598	2327	
728	8242	597		8270	597	1730	
729	8838	596		8866	596	1134	
0.00730	8.059433	595		8.059462	596	11.940538	0.999999
731	8.060028	595		8.060056	594	11.939944	
732	0621	593		0650	594	9350	
733	1214	593		1243	593	8757	
734	1806	592		1835	592	8165	
735	2398	592		2427	592	7574	
736	2988	590		3017	590	6983	
737	3578	590		3607	589	6393	
738	4167	589		4196	589	5804	
739	4755	588		4784	588	5216	
0.00740	5342	587		5371	587	4629	0.999999
741	5928	586		5958	587	4042	
742	6514	586		6543	585	3457	
743	7099	585		7128	585	2872	
744	7683	584		7713	585	2287	
745	8266	583		8296	583	1704	
746	8849	583		8879	583	1121	
747	8.069431	582		8.069460	581	11.930540	
748	8.070012	581		8.070042	582	11.929958	
749	0592	580		0622	580	9378	
0.00750	8.071171	579	9.999970	8.071201	579	11.928799	0.
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	

0.992.

0.007.

Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
1.071171		9.999970	8.071201		11.928799	0.99250
1750	579	70	1780	579	8220	249
2328	578	70	2358	578	7642	248
2905	577	70	2935	577	7065	247
3481	576	70	3512	576	6489	246
4057	575	70	4087	575	5913	245
4632	574	69	4662	574	5338	244
5206	573	69	5236	573	4764	243
5779	572	69	5810	572	4190	242
6351	571	69	6382	571	3618	241
6923	570	69	6954	570	3046	0.99240
7494	569	9	7525	569	2475	239
8065	568	9	8096	568	1904	238
8634	567	9	8665	567	1335	237
9203	566	9	9234	566	0766	236
1.079771	565	9	8.079802	565	11.920198	235
1.080338	564	9	8.080370	564	11.919630	234
0905	563	9	0936	563	9064	233
1471	562	8	1502	562	8498	232
2036	561	8	2067	561	7933	231
2600	560	8	2632	560	7368	0.99230
3164	559	8	3196	559	6805	229
3727	558	8	3759	558	6242	228
4289	557	8	4321	557	5679	227
4850	556	8	4882	556	5118	226
5411	555	9.999968	5443	555	4557	225
5971	554	8	6003	554	3997	224
6530	553	8	6563	553	3438	223
7089	552	8	7121	552	2879	222
7647	551	8	7679	551	2321	221
8204	550	7	8236	550	1764	0.99220
8760	549	7	8793	549	1207	219
9316	548	7	9349	548	0652	218
8.089871	547	7	8.089904	547	11.918097	217
8.090425	546	7	8.090458	546	11.909542	216
0979	545	7	1012	545	8989	215
1531	544	7	1565	544	8436	214
2084	543	7	2117	543	7883	213
2635	542	7	2668	542	7332	212
3186	541	7	3219	541	6781	211
3736	540	7	3769	540	6231	0.99210
4285	539	7	4319	539	5681	209
4834	538	6	4868	538	5133	208
5382	537	6	5416	537	4585	207
5929	536	6	5963	536	4037	206
6476	535	6	6510	535	3490	205
7022	534	6	7056	534	2944	204
7567	533	6	7601	533	2399	203
8111	532	6	8146	532	1855	202
8655	531	6	8690	531	1311	201
8.099198	530	9.999966	8.099233	530	11.900767	0.99200
Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.992.

0, 008.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. C
0.00800	8.099198		9.999966	8.099233		11.9007
801	8.099741	543	6	8.099775	542	11.9002
802	8.100283	542	6	8.100317	542	11.8996
803	0824	541	6	0859	542	91
804	1364	540	5	1399	540	86
805	1904	540	5	1939	540	80
806	2443	539	5	2478	539	72
807	2982	539	5	3017	539	65
808	3520	538	5	3555	538	64
809	4057	537	5	4092	537	56
0.00810	4593	536	5	4628	536	53
811	5129	536	5	5164	536	48
812	5664	535	5	5700	536	43
813	6199	535	5	6234	534	37
814	6732	533	5	6768	534	32
815	7266	534	4	7301	533	26
816	7798	532	4	7834	533	21
817	8330	532	4	8366	532	16
818	8861	531	4	8897	531	11
819	9392	531	4	9428	531	05
0.00820	8.109922	530	4	8.109958	530	11.8900
821	8.110451	529	4	8.110487	529	11.8895
822	0980	529	4	1016	529	89
823	1508	528	4	1544	528	84
824	2035	527	4	2071	527	79
825	2562	527	4	2598	527	74
826	3088	526	3	3124	526	68
827	3613	525	3	3650	526	63
828	4138	525	3	4175	525	58
829	4662	524	3	4699	524	53
0.00830	5186	524	3	5223	524	47
831	5709	523	3	5746	523	42
832	6231	522	3	6268	522	37
833	6753	522	3	6790	522	32
834	7274	521	3	7311	521	26
835	7794	520	3	7831	520	21
836	8314	520	3	8351	520	16
837	8833	519	3	8870	519	11
838	9351	518	2	9389	519	06
839	8.119869	518	2	8.119907	518	11.8800
0.00840	8.120387	518	2	8.120424	517	11.8795
841	0905	516	2	0941	517	90
842	1419	516	2	1457	516	85
843	1935	516	2	1973	516	80
844	2450	515	2	2488	515	75
845	2964	514	2	3002	514	69
846	3478	514	2	3516	514	64
847	3991	513	2	4029	513	59
848	4503	512	2	4541	512	54
849	5015	512	1	5053	512	49
0.00850	8.125526	511	9.999961	8.125565	512	11.8744
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tan

0, 991.

0.008.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.00850	8.125526	511	9.999961	8.125565	510	11.874435	0.99150
851	6037	510	1	6075	510	3925	149
852	6547	509	1	6585	510	3415	148
853	7056	509	1	7095	509	2905	147
854	7565	508	1	7604	508	2396	146
855	8073	508	1	8112	508	1888	145
856	8581	507	1	8620	507	1380	144
857	9088	506	1	9127	507	0873	143
858	8.129594	506	1	8.129634	505	11.870367	142
859	8.130100	505	1	8.130139	506	11.869861	141
0.00860	0605	505	0	0645	505	9355	0.99140
861	1110	504	0	1150	504	8851	139
862	1614	503	0	1654	503	8346	138
863	2117	503	0	2157	503	7843	137
864	2620	503	0	2660	503	7340	136
865	3123	501	0	3163	502	6837	135
866	3624	502	0	3665	501	6335	134
867	4126	500	0	4166	501	5834	133
868	4626	500	0	4667	500	5334	132
869	5126	500	9.999960	5167	499	4833	131
0.00870	5626	499	59	5666	499	4334	0.99130
871	6126	498	9	6165	498	3835	129
872	6623	498	9	6664	498	3337	128
873	7121	497	9	7161	498	2839	127
874	7618	496	9	7659	498	2341	126
875	8114	496	9.999959	8155	496	1845	125
876	8610	496	9	8651	496	1349	124
877	9106	495	9	9147	495	0853	123
878	8.139601	494	9	8.139642	494	11.860358	122
879	8.140095	494	9	8.140136	494	11.859864	121
0.00880	0589	493	9	0630	494	9370	0.99120
881	1082	493	8	1124	493	8877	119
882	1575	492	8	1616	493	8384	118
883	2067	491	8	2108	492	7892	117
884	2558	491	8	2600	491	7400	116
885	3049	491	8	3091	491	6909	115
886	3540	489	8	3582	490	6418	114
887	4029	490	8	4072	489	5928	113
888	4519	489	8	4561	489	5439	112
889	5008	488	8	5050	489	4950	111
0.00890	5496	487	8	5538	488	4462	0.99110
891	5983	488	8	6026	487	3974	109
892	6471	486	7	6513	487	3487	108
893	6957	486	7	7000	486	3000	107
894	7443	486	7	7486	486	2514	106
895	7929	485	7	7972	485	2029	105
896	8414	484	7	8457	484	1543	104
897	8898	484	7	8941	484	1059	103
898	9382	483	7	9425	483	0575	102
899	8.149865	483	7	8.149908	483	11.850092	101
0.00900	8.150348	483	9.999957	8.150391	483	11.849609	0.99100

0.991.

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0.009.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	0.0910
0.00900	8.150348	482	9.999957	8.150391	483	11.849609	0
901	0830	482	7	0874	482	9 1 26	6
902	1312	481	6	1356	481	8 6 45	5
903	1793	481	6	1837	481	8 1 53	4
904	2274	480	6	2318	480	7 6 83	3
905	2754	479	6	2798	479	7 1 02	2
906	3233	480	6	3277	480	6 6 23	1
907	3713	478	6	3757	478	6 1 44	0
908	4191	478	6	4235	478	5 6 65	9
909	4669	478	6	4713	478	5 1 87	8
0.00910	5147	476	6	5191	476	4 6 09	7
911	5623	477	6	5668	476	4 1 32	6
912	6100	476	5	6144	476	3 6 56	5
913	6576	475	5	6620	476	3 1 80	4
914	7051	475	5	7096	475	2 6 04	3
915	7526	474	5	7571	474	2 1 29	2
916	8000	474	5	8045	474	1 6 55	1
917	8474	474	5	8519	474	1 1 81	0
918	8948	472	5	8993	473	0 6 07	9
919	9420	473	5	9466	472	0 1 34	8
0.00920	8.159893	471	5	8.159938	472	11.8400	62
921	8.160364	472	5	8.160410	471	11.8390	50
922	0836	470	5	0881	471	9 1 10	9
923	1306	470	4	1352	471	8 6 18	8
924	1777	469	4	1822	470	8 1 08	7
925	2246	470	9.999954	2292	470	7 6 08	6
926	2716	468	4	2762	468	7 1 09	5
927	3184	469	4	3230	469	6 7 00	4
928	3653	467	4	3699	467	6 3 00	3
929	4120	467	4	4166	468	5 8 30	2
0.00930	4587	467	4	4634	467	5 3 60	1
931	5054	466	4	5101	466	4 9 00	0
932	5520	466	4	5567	466	4 4 33	9
933	5986	465	3	6033	465	3 9 67	8
934	6451	465	3	6498	465	3 5 02	7
935	6916	464	3	6963	464	3 0 37	6
936	7380	464	3	7427	464	2 5 73	5
937	7844	463	3	7891	463	2 1 09	4
938	8307	463	3	8354	463	1 6 46	3
939	8770	462	3	8817	462	1 1 83	2
0.00940	9232	462	3	9279	462	0 7 21	1
941	8.169694	461	3	8.169741	462	11.830259	0
942	8.170155	461	3	8.170203	460	11.829798	9
943	0616	460	2	0663	461	9 3 37	8
944	1076	460	2	1124	460	8 8 76	7
945	1536	459	2	1584	459	8 4 16	6
946	1995	459	2	2043	459	7 9 57	5
947	2454	458	2	2502	458	7 4 98	4
948	2912	458	2	2960	458	7 0 40	3
949	3370	457	2	3418	458	6 5 82	2
0.00950	8.173827	457	9.999952	8.173876	458	11.826124	0.99

0.990.

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Ar
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0.009.

Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
8.173827		9.999952	8.173876		11.826124	0.99050
4284	457	2	4333	457	5667	049
4741	457	1	4789	456	5211	048
5197	456	1	5245	456	4755	047
5652	455	1	5701	456	4299	046
6107	455	1	6156	455	3844	045
6561	454			454		
7016	455	1	6610	455	3390	044
7469	453	1	7065	453	2936	043
7922	453	1	7518	453	2482	042
8375	453	1	7971	453	2029	041
			8424	453	1576	0.99040
8827	452	1	8876	452	1124	039
9278	451	0	9328	452	0672	038
8.179730	452	0	8.179779	451	11.820221	037
8.180180	450	0	8.180230	451	11.819770	036
0631	451	0	0681	451	9320	035
1080	449	0	1130	449	8870	034
1530	450	0	1580	450	8420	033
1979	449	0	2029	449	7971	032
2427	448	0	2477	448	7523	031
2875	448	0	2925	448	7075	0.99030
3322	447	9.999950	3373	448	6627	029
3769	447	49	3820	447	6180	028
4216	447	9	4267	447	5734	027
4662	446	9	4713	446	5287	026
8.185108	446	9.999949	8.185159	446	11.814842	025
5553	445	9	5604	445	4396	024
5997	444	9	6049	445	3952	023
6442	445	9	6493	444	3507	022
6886	444	9	6937	444	3063	021
7329	443	9	7380	443	2620	0.99020
7772	443	8	7823	443	2177	019
8214	442	8	8266	443	1734	018
8656	442	8	8708	442	1292	017
9098	442	8	9150	442	0850	016
9539	441	8	8.189591	441	11.810409	015
8.189979	440	8	8.190032	441	11.809969	014
8.190420	441	8	0472	440	9528	013
0859	439	8	0912	440	9088	012
1299	440	8	1351	439	8649	011
1738	439	8	1790	439	8210	0.99010
2176	438			439		
2614	438	7	2229	438	7771	009
3052	438	7	2667	438	7333	008
3489	437	7	3104	437	6896	007
3925	436	7	3542	438	6458	006
			3978	436	6022	005
4362	437			437		
4797	435	7	4415	436	5585	004
5233	436	7	4851	435	5150	003
5668	435	7	5286	435	4714	002
			5721	435	4279	001
8.196102	434	9.999946	8.196156	435	11.803844	0.99000

0.000.

Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0. 010.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.
0.01000	8.196102		9.999946	8.196156		11.803844
001	6536	434	6	6590	434	3430
002	6970	434	6	7024	433	2977
003	7403	433	6	7457	433	2514
004	7836	433	6	7890	432	2110
005	8268	432	6	8322	432	1678
006	8700	432	6	8754	432	1240
007	9131	431	6	9186	431	8011
008	9562	431	6	8.199617	430	11.800000
009	8.199993	430	6	8.200047	431	11.799000
0.01010	8.200423	430	5	0478	430	9000
011	0853	429	5	0908	429	8000
012	1282	429	5	1337	429	7000
013	1711	429	5	1766	429	6000
014	2140	429	5	2195	428	5000
015	2568	428	5	2623	428	4000
016	2995	427	5	3051	427	3000
017	3422	427	5	3478	427	2000
018	3849	427	5	3905	426	1000
019	4276	426	4	4331	426	0000
0.01020	4702	425	4	4757	426	5000
021	5127	425	4	5183	425	4000
022	5552	425	4	5608	425	3000
023	5977	424	4	6033	424	2000
024	6401	424	4	6457	424	1000
025	8.206825	424	9.999944	8.206881	424	11.793000
026	7248	423	4	7305	423	2000
027	7672	422	4	7728	423	2200
028	8094	422	3	8151	423	1800
029	8516	422	3	8573	422	1400
0.01030	8938	422	3	8995	422	1000
031	9360	421	3	9417	421	0580
032	8.209781	420	3	8.209838	420	11.790160
033	8.210201	420	3	8.210258	421	11.789740
034	0621	420	3	0679	420	0320
035	1041	420	3	1099	419	8902
036	1461	418	3	1518	419	8482
037	1879	419	2	1937	419	8063
038	2298	418	2	2356	418	7644
039	2716	418	2	2774	418	7226
0.01040	3134	417	2	3192	417	6808
041	3551	417	2	3609	417	6391
042	3968	417	2	4026	417	5974
043	4385	416	2	4443	416	5557
044	4801	416	2	4859	416	5141
045	5217	415	2	5275	416	4725
046	5632	415	1	5691	415	4309
047	6047	415	1	6106	415	3894
048	6462	414	1	6520	414	3480
049	6876	414	1	6935	415	3065
0.01050	8.217290	414	9.999941	8.217349	414	11.782651

0. 080.

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.
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0.004

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.00450	7.849329	964	9.999989	7.849340	964	12.150660	0.99550
451	7.850203	962	9	7.850304	962	12.149696	549
452	1255	959	9	1266	959	8754	548
453	2214	958	9	2225	958	7775	547
454	3172	956	9	3183	956	6817	546
455	4128	953	9	4139	953	5861	545
456	5081	951	9	5092	951	4908	544
457	6032	950	9	6044	950	3957	543
458	6982	947	9	6993	949	3007	542
459	7929	945	9	7940	947	2060	541
0.00460	8874	943	9	8885	945	1115	0.99540
461	7.859817	941	9	7.859828	943	12.140172	539
462	7.860758	939	9	7.860770	942	12.139231	538
463	1697	937	9	1709	939	8292	537
464	2634	935	9	2646	937	7355	536
465	3569	933	8	3581	935	6419	535
466	4502	931	8	4514	933	5486	534
467	5433	929	8	5445	931	4556	533
468	6362	927	8	6374	929	3626	532
469	7289	925	8	7301	927	2699	531
0.00470	8214	923	8	8226	925	1774	0.99530
471	7.869137	921	8	7.869149	923	12.130851	529
472	7.870058	919	8	7.870070	921	12.129930	528
473	0977	917	8	0989	919	9011	527
474	1894	916	8	1906	917	8094	526
475	2810	913	9.999988	2822	916	7179	525
476	3723	911	8	3735	913	6265	524
477	4634	910	8	4646	911	5354	523
478	5544	907	8	5556	910	4444	522
479	6451	906	8	6464	908	3536	521
0.00480	7357	904	8	7369	905	2631	0.99520
481	8261	902	8	8273	904	1727	519
482	7.879163	900	8	7.879175	902	12.120825	518
483	7.880063	898	8	7.880075	900	12.119925	517
484	0961	896	7	0974	899	9026	516
485	1857	895	7	1870	896	8130	515
486	2752	893	7	2765	895	7235	514
487	3645	890	7	3657	892	6343	513
488	4535	890	7	4548	891	5452	512
489	5425	887	7	5437	889	4563	511
0.00490	6312	885	7	6325	888	3676	0.99510
491	7197	884	7	7210	885	2790	509
492	8081	882	7	8094	884	1906	508
493	8963	880	7	8976	882	1025	507
494	7.889843	878	7	7.889856	880	12.110145	506
495	7.890721	876	7	7.890734	878	12.109266	505
496	1597	875	7	1610	876	8390	504
497	2472	873	7	2485	875	7515	503
498	3345	871	7	3358	873	6642	502
499	4216	869	7	4229	871	5771	501
0.00500	7.895085	869	9.999987	7.895099	870	12.104901	0.99500
Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.

0.995.

0.005.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.00500	7.895085		9.999987	7.895099		12.104901	0.99500
501	5953	868	7	5967	868	4033	499
502	6819	866	7	6833	866	3167	498
503	7683	864	6	7697	864	2303	497
504	8546	863	6	8560	863	1441	496
505	7.899407	861	6	7.899420	860	12.100580	495
506	7.900266	859	6	7.900280	860	12.099721	494
507	1123	857	6	1137	857	8863	493
508	1979	856	6	1993	856	8007	492
509	2833	854	6	2847	854	7153	491
0.00510	3685	852	6	3699	852	6301	0.99490
511	4536	851	6	4550	851	5450	489
512	5385	849	6	5399	849	4601	488
513	6233	848	6	6247	848	3753	487
514	7078	845	6	7092	845	2908	486
515	7922	844	6	7937	845	2063	485
516	8765	843	6	8779	842	1221	484
517	7.909606	841	6	7.909620	841	12.090380	483
518	7.910445	839	6	7.910459	839	12.089541	482
519	1282	837	6	1297	838	8703	481
0.00520	2118	836	6	2133	836	7867	0.99480
521	2953	835	6	2967	834	7033	479
522	3786	833	5	3800	833	6200	478
523	4617	831	5	4631	831	5369	477
524	5446	829	5	5461	830	4539	476
525	6274	828	9.999985	6289	828	3711	475
526	7101	827	5	7116	827	2885	474
527	7926	825	5	7940	824	2060	473
528	8749	823	5	8764	824	1236	472
529	7.919571	822	5	7.919586	822	12.080415	471
0.00530	7.920391	820	5	7.920406	820	12.079594	0.99470
531	1209	818	5	1225	819	8776	469
532	2027	818	5	2042	817	7958	468
533	2842	815	5	2857	815	7143	467
534	3656	814	5	3671	814	6329	466
535	4469	813	5	4484	813	5516	465
536	5280	811	5	5295	811	4705	464
537	6089	809	5	6105	810	3896	463
538	6897	808	5	6913	808	3088	462
539	7704	807	4	7719	806	2281	461
0.00540	8508	804	4	8524	805	1476	0.99460
541	7.929312	804	4	7.929328	804	12.070672	459
542	7.930114	802	4	7.930130	802	12.069870	458
543	0914	800	4	0930	800	9070	457
544	1714	800	4	1729	799	8271	456
545	2511	797	4	2527	798	7473	455
546	3307	796	4	3323	796	6677	454
547	4102	795	4	4118	795	5882	453
548	4895	793	4	4911	793	5089	452
549	5687	792	4	5703	792	4297	451
0.00550	7.936477	790	9.999984	7.936493	790	12.063507	0.99450
Arc.	Log. Cot.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.005.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.00550	7.936477	789	9.999984	7.936493	789	12.063507	0.99450
551	7266	788	4	7282	788	2718	449
552	8054	786	4	8070	786	1930	448
553	8840	784	4	8856	785	1144	447
554	7.939624	783	4	7.939641	-83	12.060359	446
555	7.940407	782	4	7.940424	-83	12.059576	445
556	1189	781	3	1206	782	8794	444
557	1970	779	3	1986	780	8014	443
558	2749	777	3	2765	779	7235	442
559	3526	776	3	3543	778	6457	441
0.00560	4302	775	3	4319	776	5681	0.99440
561	5077	774	3	5094	775	4906	439
562	5851	772	3	5868	774	4133	438
563	6623	770	3	6640	772	3360	437
564	7393	770	3	7410	770	2590	436
565	8163	768	3	8180	770	1820	435
566	8931	766	3	8948	768	1052	434
567	7.949697	766	3	7.949714	766	12.050286	433
568	7.950463	763	3	7.950480	764	12.049520	432
569	1226	763	3	1244	762	8756	431
0.00570	1989	761	3	2006	762	7994	0.99430
571	2750	760	3	2768	760	7232	429
572	3510	759	3	3528	758	6472	428
573	4269	757	2	4286	758	5714	427
574	5026	756	2	5044	756	4957	426
575	5782	754	9.999982	5800	754	4201	425
576	6536	754	2	6554	754	3446	424
577	7290	752	2	7308	752	2692	423
578	8042	751	2	8060	750	1940	422
579	8793	749	2	8810	750	1190	421
0.00580	7.959542	748	2	7.959560	748	12.040440	0.99420
581	7.960290	747	2	7.960308	747	12.039692	419
582	1037	745	2	1055	746	8945	418
583	1782	745	2	1801	744	8199	417
584	2527	743	2	2545	743	7455	416
585	3270	741	2	3288	742	6712	415
586	4011	741	2	4030	740	5970	414
587	4752	739	2	4770	740	5230	413
588	5491	738	2	5510	738	4490	412
589	6229	737	1	6248	736	3752	411
0.00590	6966	735	1	6984	736	3016	0.99410
591	7701	734	1	7720	734	2280	409
592	8435	733	1	8454	733	1546	408
593	9168	732	1	9187	732	8813	407
594	7.969900	731	1	7.969919	731	12.030081	406
595	7.970631	729	1	7.970650	731	12.029351	405
596	1360	728	1	1379	729	8621	404
597	2088	727	1	2107	728	7863	403
598	2815	725	1	2834	727	7166	402
599	3540	725	1	3560	726	6441	401
0.00600	7.974265	724	9.999981	7.974284	724	12.025716	0.99400
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.994.

0. 006.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.00600	7.974265	723	9.999981	7.974284	723	12.025716	0.99400
601	4988	722	1	5007	722	4993	399
602	5710	721	1	5729	721	4271	398
603	6431	719	1	6450	720	3550	397
604	7150	719	1	7170	718	2830	396
605	7869	717	0	7888	718	2112	395
606	8586	716	0	8606	716	1304	394
607	7.979302	715	0	7.979322	715	12.020678	393
608	7.980017	714	0	7.980037	713	12.019963	392
609	0731	712	0	0750	713	9250	391
0.00610	1443	711	0	1463	713	8537	0.99390
611	2154	711	0	2174	711	7826	389
612	2865	709	0	2885	709	7115	388
613	3574	708	0	3594	708	6406	387
614	4282	706	0	4302	707	5698	386
615	4988	706	0	5009	705	4992	385
616	5694	704	0	5714	705	4286	384
617	6398	704	0	6419	703	3581	383
618	7102	702	0	7122	702	2878	382
619	7804	701	80	7824	701	2176	381
0.00620	8505	700	79	8525	700	1475	0.99380
621	9205	698	9	9225	699	0775	379
622	7.989903	698	9	7.989924	698	12.010076	378
623	7.990601	697	9	7.990622	696	12.009378	377
624	1298	695	9	1318	696	8682	376
625	1993	694	9.999979	2014	694	7986	375
626	2687	693	9	2708	694	7292	374
627	3380	693	9	3402	692	6599	373
628	4073	691	9	4094	691	5906	372
629	4764	689	9	4785	690	5215	371
0.00630	5453	689	9	5475	689	4525	0.99370
631	6142	688	9	6164	687	3837	369
632	6830	686	9	6851	687	3149	368
633	7516	686	9	7538	686	2462	367
634	8202	684	9	8224	684	1777	366
635	8886	684	8	8908	683	1092	365
636	7.999570	682	8	7.999591	683	12.000409	364
637	8.000252	681	8	8.000274	681	11.999726	363
638	0933	680	8	0955	680	9045	362
639	1613	680	8	1635	680	8365	361
0.00640	2293	678	8	2315	678	7686	0.99360
641	2971	677	8	2993	677	7007	359
642	3648	676	8	3670	676	6330	358
643	4324	674	8	4346	675	5654	357
644	4998	674	8	5021	674	4979	356
645	5672	673	8	5695	672	4306	355
646	6345	672	8	6367	672	3633	354
647	7017	670	8	7039	671	2961	353
648	7687	670	8	7710	670	2290	352
649	8357	669	7	8380	668	1620	351
0.00650	8.009026	669	9.999977	8.009048	668	11.999052	0.99350

Arc. Log. Cosin. Dif. Log. Sin. Log. Cot. Dif. Log. Tang. Arc.

0. 993.

0.012.

Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
1.293002		9.999916	8.293086		11.706914	0.98750
3349	347	6	3433	347	6567	749
3696	347	6	3780	347	6220	748
4043	347	6	4127	347	5873	747
4389	346	6	4474	347	5526	746
4736	347	6	4820	346	5180	745
	345			346		
5081	346	6	5166	346	4834	744
5427	345	5	5512	346	4488	743
5772	345	5	5857	345	4143	742
6117	345	5	6202	345	3798	741
6462	345	5	6547	345	3453	0.98740
	344			345		
6807	344	5	6892	344	3108	739
7151	344	5	7236	344	2764	738
7495	343	5	7580	344	2420	737
7838	344	4	7924	344	2076	736
8182	344	4	8268	344	1732	735
	343			343		
8525	343	4	8611	343	1389	734
8868	342	4	8954	343	1046	733
9210	343	4	9297	342	903	732
9553	342	4	9639	342	9361	731
8.299895	342	4	8.299981	342	11.700019	0.98730
	341			342		
8.300237	341	3	8.300323	342	11.699677	729
0578	341	3	0665	341	9335	728
0919	341	3	1006	341	8994	727
1260	341	3	1347	341	8653	726
1601	341	3	1688	341	8312	725
	340			341		
1942	340	3	2029	340	7971	724
2282	340	3	2369	340	7631	723
2622	339	3	2709	340	7291	722
2961	340	2	3049	339	6951	721
3301	339	2	3388	340	6612	0.98720
	338			339		
3640	338	2	3728	339	6272	719
3979	338	2	4067	338	5933	718
4317	339	2	4405	339	5595	717
4656	338	2	4744	338	5256	716
4994	337	2	5082	338	4918	715
	336			337		
5331	338	1	5420	338	4580	714
5669	337	1	5758	337	4242	713
6006	337	1	6095	337	3905	712
6343	337	1	6432	337	3568	711
6680	336	1	6769	337	3231	0.98710
	335			336		
7016	337	1	7106	336	2894	709
7353	336	1	7442	336	2558	708
7689	335	0	7778	336	2222	707
8024	336	0	8114	336	1886	706
8360	335	0	8450	336	1550	705
	334			335		
8695	335	0	8785	335	1215	704
9030	335	0	9120	335	0880	703
9365	334	0	9455	335	0545	702
8.309699	334	9.999910	8.309789	334	11.699211	701
8.310033	334	9.999909	8.310124	335	11.689876	0.98700
Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.987.

0.013.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	
0.01300	8.310033		9.999909	8.310124		11.689876	a.
301	0367	334	9	0458	334	9542	
302	0701	334	9	0791	333	9209	
303	1034	333	9	1125	334	8875	
304	1367	333	9	1458	333	8542	
305	1700	333	9	1791	333	8209	
306	2033	333	9	2124	333	7876	
307	2365	332	9	2457	333	7544	
308	2697	332	8	2789	332	7211	
309	3029	332	8	3121	332	6879	
0.01310	3361		8	3453		6548	o.g
311	3692	331	8	3784	331	6216	
312	4023	331	8	4115	331	5885	
313	4354	331	8	4446	331	5554	
314	4684	330	8	4777	331	5223	
315	5015	331	7	5107	330	4893	
316	5345	330	7	5438	331	4562	
317	5675	330	7	5768	330	4232	
318	6004	329	7	6097	329	3903	
319	6334	330	7	6427	330	3573	
0.01320	6663		7	6756		3244	o.g!
321	6992	329	7	7085	329	2915	
322	7320	328	6	7414	329	2586	
323	7649	329	6	7742	328	2258	
324	7977	328	6	8071	329	1930	
325	8.318304	327	9.999906	8.318399	328	11.681602	
326	8632	328	6	8726	327	1274	
327	8959	327	6	9054	328	0946	
328	9287	328	6	9381	327	0619	
329	9613	326	5	8.319708	327	11.680292	
0.01330	8.319940		5	8.320035		11.679965	o.g!
331	8.320266	326	5	0361	326	9639	
332	0592	326	5	0688	327	9313	
333	0918	326	5	1014	326	8987	
334	1244	325	5	1339	325	8661	
335	1569	325	5	1665	326	8335	
336	1895	326	4	1990	325	8010	
337	2219	324	4	2315	325	7685	
338	2544	325	4	2640	325	7360	
339	2868	324	4	2965	325	7036	
0.01340	3193		4	3289		6711	o.g!
341	3517	324	4	3613	324	6387	
342	3840	323	4	3937	324	6063	
343	4164	324	3	4260	323	5740	
344	4487	323	3	4584	324	5416	
345	4810	323	3	4907	323	5093	
346	5133	323	3	5230	323	4770	
347	5455	322	3	5552	322	4448	
348	5777	322	3	5875	323	4125	
349	6099	322	3	6197	322	3803	
0.01350	8.326421		9.999902	8.326519		11.673481	o.g!
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Ar

0.007.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.00750	8.071171		9.999970	8.071201		11.928799	0.99250
751	1750	579	70	1780	579	8220	249
752	2328	578	70	2358	578	7642	248
753	2905	577	70	2935	577	7065	247
754	3481	576	70	3512	577	6480	246
755	4057	576	70	4087	575	5913	245
756	4632	575	69	4662	575	5338	244
757	5206	574	69	5236	574	4764	243
758	5779	573	69	5810	574	4190	242
759	6351	572	69	6382	572	3618	241
0.00760	6923	572	69	6954	572	3046	0.99240
761	7494	571	9	7525	571	2475	239
762	8065	571	9	8096	571	1904	238
763	8634	569	9	8665	569	1335	237
764	9203	569	9	9234	569	0766	236
765	8.079771	568	9	8.079802	568	11.920198	235
766	8.080338	567	9	8.080370	568	11.919630	234
767	0905	566	9	0936	566	9064	233
768	1471	565	8	1502	566	8498	232
769	2036	565	8	2067	565	7933	231
0.00770	2600	564	8	2632	565	7368	0.99230
771	3164	564	8	3196	564	6805	229
772	3727	563	8	3759	563	6242	228
773	4289	562	8	4321	562	5679	227
774	4850	561	8	4882	561	5118	226
775	5411	561	9.999968	5443	561	4557	225
776	5971	560	8	6003	560	3997	224
777	6530	559	8	6563	560	3438	223
778	7089	559	8	7121	558	2879	222
779	7647	558	8	7679	558	2321	221
0.00780	8204	557	7	8236	557	1764	0.99220
781	8760	556	7	8793	557	1207	219
782	9316	556	7	9349	555	0652	218
783	8.089871	555	7	8.089904	555	11.910097	217
784	8.090425	554	7	8.090458	554	11.909542	216
785	0979	554	7	1012	554	8989	215
786	1531	552	7	1565	553	8436	214
787	2084	553	7	2117	552	7883	213
788	2635	551	7	2668	551	7332	212
789	3186	551	7	3219	551	6781	211
0.00790	3736	550	7	3769	550	6231	0.99210
791	4285	549	7	4319	550	5681	209
792	4834	549	6	4868	549	5133	208
793	5382	548	6	5416	548	4585	207
794	5929	547	6	5963	547	4037	206
795	6476	547	6	6510	547	3490	205
796	7022	546	6	7056	546	2944	204
797	7567	545	6	7601	545	2399	203
798	8111	544	6	8146	545	1855	202
799	8655	544	6	8690	544	1311	201
0.00800	8.099198	543	9.999966	8.099233	543	11.900767	0.99200
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.992.

0.014.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.01400	8.342213	310	9.999895	8.342318	310	11.657682	0.9860
401	2523	310	5	2628	310	7372	59
402	2833	309	5	2938	310	7082	59
403	3142	310	5	3248	309	6792	59
404	3452	309	4	3557	310	6502	59
405	3761	309	4	3867	309	6212	59
406	4070	309	4	4176	309	5922	59
407	4379	308	4	4485	308	5632	59
408	4687	308	4	4793	309	5342	59
409	4995	309	4	5102	308	5052	0.98
0.01410	5304	307	4	5410	308	4762	
411	5611	308	3	5718	308	4472	
412	5919	307	3	6026	307	4182	
413	6226	308	3	6333	308	3892	
414	6534	307	3	6641	307	3602	
415	6841	306	3	6948	307	3312	
416	7147	307	3	7255	307	3022	
417	7454	306	2	7562	306	2732	
418	7760	306	2	7868	306	2442	
419	8066	306	2	8174	306	2152	
0.01420	8372	306	2	8480	306	1862	
421	8678	305	2	8786	306	1572	
422	8983	306	2	9092	305	1282	
423	9289	305	2	9397	305	0992	
424	9594	305	1	8.349702	305	0702	
425	8.349899	304	9.999891	8.350007	305	11.650298	
426	8.350203	304	1	0312	305	11.649993	
427	0508	304	1	0617	305	9688	
428	0812	304	1	0921	304	9383	
429	1116	304	1	1225	304	9079	
0.01430	1419	303	0	1529	304	8775	
431	1723	304	0	1833	304	8471	
432	2026	303	0	2136	303	8167	
433	2329	303	9.999890	2439	303	7864	
434	2632	303	9.999890	2743	304	7561	
435	2935	303	90	3045	302	7258	
436	3238	303	90	3348	303	6955	
437	3540	302	89	3650	302	6652	
438	3842	302	89	3953	303	6350	
439	4144	302	89	4255	302	6047	
0.01440	4445	301	89	4556	301	5745	
441	4747	302	89	4858	302	5444	
442	5048	301	89	5159	301	5142	
443	5349	301	88	5461	302	4841	
444	5650	301	88	5762	301	4539	
445	5950	300	88	6062	300	4238	
446	6251	301	88	6363	301	3938	
447	6551	300	88	6663	300	3637	
448	6851	300	88	6963	300	3337	
449	7151	300	88	7263	300	3037	
0.01450	8.357450	299	9.999887	8.357563	300	2737	
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	

u. 008.

Arg.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arg.
0.00850	8.125526		9.999961	8.125565		11.874435	0.99150
851	6037	511		6075	510	3925	149
852	6547	510		6585	510	3415	148
853	7056	509		7095	510	2905	147
854	7565	509		7604	508	2396	146
855	8073	508		8112	508	1888	145
856	8581	508		8620	507	1380	144
857	9088	507		9127	507	873	143
858	8.129594	506		8.129634	505	11.870367	142
859	8.130100	506		8.130139	505	11.869861	141
0.00860	0605	505		0643	506	9355	0.99140
861	1110	505		1150	505	8851	139
862	1614	504		1654	504	8346	138
863	2117	503		2157	503	7843	137
864	2620	503		2660	503	7340	136
865	3123	503		3163	503	6837	135
866	3624	501		3665	502	6335	134
867	4124	502		4165	501	5834	133
868	4626	500		4667	501	5333	132
869	5126	500	9.999954	5167	500	4833	131
0.00870	5626	500	59	5667	499	4334	0.99130
871	6125	499		6165	499	3835	129
872	6623	498	9	6664	498	3337	128
873	7121	498	9	7161	498	2839	127
874	7618	497	9	7659	498	2341	126
875	8114	496	9.999959	8155	496	1845	125
876	8610	496		8651	496	1349	124
877	9106	496		9147	496	853	123
878	8.139601	495		8.139642	495	11.869358	122
879	8.140095	494		8.140136	494	11.869864	121
0.00880	0589	494		0630	494	9370	0.99120
881	1082	493	8	1124	493	8877	119
882	1575	493	8	1616	492	8384	118
883	2067	492	8	2108	492	7892	117
884	2558	491	8	2600	492	7400	116
885	3049	491	8	3091	491	6909	115
886	3540	491	8	3582	491	6418	114
887	4029	489	8	4072	489	5928	113
888	4519	489	8	4564	489	5439	112
889	5008	489	8	5056	488	4950	111
0.00890	5497	488		5538	488	4462	0.99110
891	5985	487	8	6026	488	3974	109
892	6471	488	8	6515	487	3487	108
893	6957	486	8	7004	487	3000	107
894	7443	486	8	7493	486	2514	106
895	7929	486	8	7982	485	2029	105
896	8414	485	8	8471	485	1545	104
897	8898	484	8	8961	484	1060	103
898	9382	484	8	9451	483	575	102
899	8.149865	483		8.149908	483	11.870092	101
0.00900	8.150348	483	9.999957	8.150391	483	11.869609	0.99100
Arg.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arg.

0.015.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.
0.01500	8.372171		9.999879	8.372292		11.627702
501	2460	289	9	2581	289	7411
502	2750	290	9	2870	289	7131
503	3039	289	9	3160	290	6845
504	3327	288	9	3449	289	6554
505	3616	289	9	3737	288	6260
506	3904	288	9	4026	289	5971
507	4193	280	8	4314	288	5681
508	4481	288	8	4603	289	5391
509	4768	287	8	4891	288	5101
0.01510	5056	288	8	5178	287	4811
511	5344	288	8	5466	288	4521
512	5631	287	8	5753	287	4231
513	5918	287	7	6041	288	3941
514	6205	287	7	6328	287	3651
515	6492	287	7	6615	287	3361
516	6778	286	7	6901	286	3071
517	7064	286	7	7188	287	2781
518	7351	285	7	7474	286	2491
519	7636	285	6	7760	285	2201
0.01520	7922	286	6	8046	286	1911
521	8208	286	6	8332	286	1621
522	8493	285	6	8617	285	1331
523	8778	285	6	8903	286	1041
524	9063	285	6	9188	285	0751
525	9348	285	9.999875	9473	285	0461
526	9633	285	5	8.379758	285	11.62024
527	8.379917	284	5	8.380042	284	11.61995
528	8.380202	285	5	0327	285	967
529	0486	284	5	0611	284	938
0.01530	0770	284	5	0895	284	910
531	1053	283	4	1179	284	8821
532	1337	284	4	1463	284	8538
533	1620	283	4	1746	283	8254
534	1903	283	4	2029	283	7971
535	2186	283	4	2312	283	7688
536	2469	283	4	2595	283	7405
537	2752	282	3	2878	283	7122
538	3034	282	3	3161	282	6839
539	3316	282	3	3443	282	6557
0.01540	3598	282	3	3725	282	6275
541	3880	282	3	4007	282	5993
542	4162	281	3	4289	282	5711
543	4443	282	2	4571	281	5429
544	4725	281	2	4852	282	5148
545	5006	281	2	5134	281	4866
546	5287	281	2	5415	281	4585
547	5567	280	2	5696	280	4304
548	5848	281	2	5976	281	4024
549	6128	280	1	6257	280	3743
0.01550	8.386409	281	9.999871	8.386537	280	11.613463
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.

0.009.

Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
8.173827	457	9.999952	8.173876	457	11.826124	0.99050
4284	457	2	4333	457	5667	049
4741	456	1	4789	456	5211	048
5197	455	1	5245	456	4755	047
5652	455	1	5701	456	4299	046
6107	455	1	6156	455	3844	045
6561	454	1	6610	454	3390	044
7016	455	1	7065	455	2936	043
7469	453	1	7518	453	2482	042
7922	453	1	7971	453	2029	041
8375	453	1	8424	453	1576	0.99040
8827	452	1	8876	452	1124	039
9278	451	0	9328	452	0672	038
8.179730	452	0	8.179779	451	11.820221	037
8.180180	450	0	8.180230	451	11.819770	036
063	451	0	0681	451	9320	035
1080	449	0	1130	449	8870	034
1530	450	0	1580	450	8420	033
1979	449	0	2029	449	7971	032
2427	448	0	2477	448	7523	031
2875	448	0	2925	448	7075	0.99030
3322	447	9.999950	3373	448	6627	029
3769	447	49	3820	447	6180	028
4216	447	9	4267	447	5734	027
4662	446	9	4713	446	5287	026
8.185108	446	9.999949	8.185159	446	11.814842	025
5553	445	9	5604	445	4396	024
5997	444	9	6049	445	3952	023
6442	445	9	6493	444	3507	022
6886	444	9	6937	444	3063	021
7329	443	9	7380	443	2620	0.99020
7772	443	8	7823	443	2177	019
8214	442	8	8266	443	1734	018
8656	442	8	8708	442	1292	017
9098	442	8	9150	442	0850	016
9539	441	8	8.189591	441	11.810409	015
8.189979	440	8	8.190032	441	11.809969	014
8.190420	441	8	0472	440	9528	013
0859	439	8	0912	440	9088	012
1299	440	8	1351	439	8649	011
1738	439	8	1790	439	8210	0.99010
2176	438	7	2229	439	7771	009
2614	438	7	2667	438	7333	008
3052	438	7	3104	437	6896	007
3489	437	7	3542	438	6458	006
3925	436	7	3978	436	6022	005
4362	437	7	4415	437	5585	004
4797	435	7	4851	436	5150	003
5233	436	7	5286	435	4714	002
5668	435	7	5721	435	4279	001
8.196102	434	9.999946	8.196156	435	11.803844	0.99000

0.990.

Log. Cosin. Dif. Log. Sin. Log. Cot. Dif. Log. Tang. Arc.

0.016.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.01600	8.400194	271	9.999863	8.400331	272	11.599669	0.98
601	0465	272	3	0603	271	9397	
602	0737	271	3	0874	271	9126	
603	1008	270	2	1145	271	8855	
604	1278	271	2	1416	271	8584	3
605	1549	270	2	1687	271	8313	3
606	1819	270	2	1958	270	8042	3
607	2090	270	2	2228	270	7772	3
608	2360	270	1	2498	270	7502	3
609	2630	270	1	2768	270	7232	3
0.01610	2900	269	1	3038	270	6962	0.98
611	3169	270	1	3308	270	6692	
612	3439	269	1	3578	269	6422	
613	3708	269	1	3847	270	6153	
614	3977	269	0	4117	269	5884	
615	4246	269	0	4386	269	5614	
616	4515	268	9.999860	4655	268	5346	
617	4785	269	9.999860	4923	269	5077	
618	5052	268	60	5192	268	4808	
619	5320	268	60	5460	269	4540	
0.01620	5588	268	59	5729	268	4271	
621	5856	268	59	5997	268	4003	
622	6124	267	59	6265	268	3735	
623	6391	268	59	6533	268	3468	
624	6659	268	59	6800	267	3200	
625	8.406926	267	9.999859	8.407068	268	11.592932	
626	7193	267	58	7335	267	2665	
627	7460	267	58	7602	267	2398	
628	7727	267	58	7869	267	2131	
629	7994	266	58	8136	267	1864	
0.01630	8260	266	58	8402	266	1598	
631	8526	267	58	8669	266	1331	
632	8793	265	57	8935	266	1065	
633	9058	266	7	9201	266	0799	
634	9324	266	7	9467	266	0533	
635	9590	265	7	9733	266	0267	
636	8.409855	266	7	8.409999	265	11.590001	3
637	8.410121	265	6	8.410264	266	11.589736	3
638	0386	265	6	0530	265	9470	3
639	0651	265	6	0795	265	9205	3
0.01640	0916	264	6	1060	265	8940	0.9831
641	1180	265	6	1325	264	8675	3
642	1445	264	6	1589	265	8411	3
643	1709	264	5	1854	264	8146	3
644	1973	264	5	2118	265	7882	3
645	2237	264	5	2383	264	7618	3
646	2501	264	5	2647	263	7354	3
647	2765	264	5	2910	264	7090	3
648	3029	263	5	3174	264	6826	3
649	3292	263	4	3438	263	6562	3
0.01650	8.413555	263	9.999854	8.413701	263	11.586299	0.983
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

O. O. I.

Sec.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc
1150	8.256794	378	9.999929	8.256865	378	11.743135	0.988
151	7 172	377	9	7243	377	2758	8.
152	7 549	376	9	7620	377	2380	8.
153	7 925	377	9	7997	377	2003	84
154	8 302	376	9	8373	376	1627	84
155	8 678	376	9	8750	377	1250	84.
156	9 054	375	8	9125	375	0875	844
157	9 429	376	8	9501	375	0499	847
158	8.259805	374	8	8.259876	375	11.740124	842
159	8.260179	375	8	8.260251	375	11.739749	841
0.01160	8 554	374	8	0626	374	9374	0.98840
161	9 928	374	8	1000	374	9000	839
162	1 302	373	8	1374	374	8626	838
163	1 675	374	8	1748	373	8252	837
164	2 049	373	7	2121	373	7879	836
165	2 422	372	7	2494	373	7506	835
166	2 794	372	7	2867	372	7133	834
167	3 166	372	7	3239	373	6761	833
168	3 538	372	7	3612	371	6389	832
169	3 910	371	7	3983	372	6017	831
0.01170	4 281	371	7	4355	371	5645	0.98830
171	4 652	371	7	4726	371	5274	829
172	5 023	370	6	5097	370	4903	828
173	5 393	370	6	5467	370	4533	827
174	5 763	370	6	5837	370	4163	826
175	8.266133	370	9.999926	8.266207	370	11.733793	825
176	6 503	369	6	6577	369	3423	824
177	6 872	368	6	6946	369	3054	823
178	7 240	369	6	7315	368	2685	822
179	7 609	368	6	7683	369	2317	821
0.01180	7 977	368	5	8052	368	1948	0.98820
181	8 345	367	5	8420	367	1580	819
182	8 712	368	5	8788	368	1213	818
183	9 080	367	5	9155	367	0845	817
184	9 447	366	5	9522	366	0478	816
185	8.269813	366	5	8.269888	366	11.730112	815
186	8.270179	366	5	8.270255	366	11.729747	814
187	0545	366	5	0621	366	9379	813
188	0911	366	4	0987	365	9013	812
189	1277	365	4	1352	365	8648	811
0.01190	1642	364	4	1717	365	8283	0.98810
191	2006	365	4	2082	365	7918	809
192	2371	364	4	2447	364	7553	808
193	2735	364	4	2811	364	7189	807
194	3099	363	4	3175	364	6825	806
195	3462	364	4	3539	363	6461	805
196	3826	362	3	3902	363	6098	804
197	4188	363	3	4265	363	5735	803
198	4551	362	3	4628	362	5372	802
199	4913	362	3	4990	362	5010	801
0.01200	8.275275	362	9.999923	8.275353	363	11.724647	0.98800
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.988.

0. 017.

Arc.	Log. Sin.		Log. Cosin.	Log. Tang.		Log. Cot.	
0.01700	8.426517	Dif.	9.999845	8.426672	Dif.	11.573328	0.9
		256			256		
701	6773	255	5	6928	255	3072	
702	7028	255	5	7183	255	2817	
703	7283	255	5	7438	255	2562	
704	7538	254	4	7693	255	2307	
705	7792	255	4	7948	255	2052	
		254			255		
706	8047	254	4	8203	255	1797	
707	8301	255	4	8458	254	1543	
708	8556	254	4	8712	254	1288	
709	8810	254	4	8966	255	1034	
0.01710	9064	254	3	9221	254	0780	0.9
		253			253		
711	9318	253	3	9475	253	0526	
712	9571	254	3	9728	254	0272	
713	8.429825	253	3	8.429982	254	11.570018	
714	8.430078	254	3	8.430236	253	11.569764	
715	0332	253	2	0489	253	9511	
		253			254		
716	0585	253	2	0742	254	9258	
717	0838	252	2	0996	253	9005	
718	1090	253	2	1249	252	8752	
719	1343	253	2	1501	252	8499	
0.01720	1596	252	2	1754	253	8246	0.9
		252			252		
721	1848	252	1	2007	252	7993	
722	2100	252	1	2259	252	7741	
723	2352	252	1	2511	252	7489	
724	2604	252	1	2763	252	7237	
725	8.432856	252	1	8.433015	252	11.566985	
		251			252		
726	3108	251	0	3267	252	6733	
727	3359	251	0	3519	251	6481	
728	3610	251	9.999840	3770	252	6230	
729	3862	251	9.999840	4022	251	5978	
0.01730	4113	250	40	4273	251	5727	0.9
		250			251		
731	4363	251	39	4524	251	5476	
732	4614	251	39	4775	251	5225	
733	4865	251	39	5026	251	4974	
734	5115	250	39	5276	250	4724	
735	5366	251	39	5527	251	4473	
		250			250		
736	5616	250	39	5777	251	4223	
737	5866	250	38	6028	250	3973	
738	6116	250	38	6278	250	3722	
739	6365	249	38	6528	250	3473	
0.01740	6615	250	38	6777	249	3223	0.9
		250			250		
741	6865	249	38	7027	249	2973	
742	7114	249	37	7276	250	2724	
743	7363	249	37	7526	249	2474	
744	7612	249	37	7775	249	2225	
745	7861	249	37	8024	249	1976	
		249			249		
746	8110	248	37	8273	249	1727	
747	8358	249	37	8522	249	1478	
748	8607	248	36	8771	248	1230	
749	8855	248	36	9019	248	0981	
0.01750	8.439103	248	9.999826	8.439267	248	11.560733	0.9

0. 982.

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	A
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0.012.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.01250	8.293002		9.999916	8.293086		11.700014	0.98750
251	3349	347	6	3433	347	6567	749
252	3696	347	6	3780	347	6220	748
253	4043	347	6	4127	347	5873	747
254	4389	346	6	4474	347	5526	746
255	4736	347	6	4820	346	5180	745
		345			346		
256	5081	346	6	5166	346	4834	744
257	5427	346	5	5512	346	4488	743
258	5772	345	5	5857	345	4143	742
259	6117	345	5	6202	345	3798	741
0.01260	6462	345	5	6547	345	3453	0.98740
		345			345		
261	6807	344	5	6892	344	3108	739
262	7151	344	5	7236	344	2764	738
263	7495	344	5	7580	344	2420	737
264	7838	343	4	7924	344	2076	736
265	8182	344	4	8268	344	1732	735
		343			343		
266	8525	343	4	8611	343	1389	734
267	8868	342	4	8954	343	1046	733
268	9210	342	4	9297	342	703	732
269	9553	342	4	9640	342	360	731
0.01270	8.299895	342	4	8.299981	342	11.700019	0.98730
		342			342		
271	8.300237	341	3	8.300323	342	11.699677	729
272	0578	341	3	0665	341	9335	728
273	0919	341	3	1006	341	8994	727
274	1260	341	3	1347	341	8653	726
275	1601	341	3	1688	341	8312	725
		9.999913			341		
276	1942	340	3	2029	340	7971	724
277	2282	340	3	2369	340	7631	723
278	2622	339	3	2709	340	7291	722
279	2961	340	2	3049	339	6951	721
0.01280	3301	340	2	3388	340	6612	0.98720
		339			340		
281	3640	339	2	3728	339	6272	719
282	3979	338	2	4067	338	5933	718
283	4317	339	2	4405	339	5595	717
284	4656	338	2	4744	338	5256	716
285	4994	337	2	5082	338	4918	715
		338			338		
286	5331	338	1	5420	338	4580	714
287	5669	337	1	5758	337	4242	713
288	6006	337	1	6095	337	3905	712
289	6343	337	1	6432	337	3568	711
0.01290	6680	336	1	6769	337	3231	0.98710
		337			337		
291	7016	337	1	7106	336	2894	709
292	7353	336	1	7442	336	2558	708
293	7689	335	0	7778	336	2222	707
294	8024	336	0	8114	336	1886	706
295	8360	336	0	8450	336	1550	705
		335			335		
296	8695	335	0	8785	335	1215	704
297	9030	335	0	9120	335	880	703
298	9365	334	0	9455	334	545	702
299	8.309699	334	9.999910	8.309789	334	11.690211	701
0.01300	8.310033	334	9.999909	8.310124	335	11.689876	0.98700
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.987.

0. 013.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.01300	8.310033		9.999909	8.310124		11.689876	0.98700
301	0367	334	9	0458	334	9542	699
302	0701	334	9	0791	333	9209	698
303	1034	333	9	1125	334	8875	697
304	1367	333	9	1458	333	8542	696
305	1700	333	9	1791	333	8209	695
306	2033	333	9	2124	333	7876	694
307	2365	332	9	2457	333	7544	693
308	2697	332	8	2789	332	7211	692
309	3029	332	8	3121	332	6879	691
0.01310	3361	332	8	3453	332	6548	0.98690
311	3692	331	8	3784	331	6216	689
312	4023	331	8	4115	331	5885	688
313	4354	331	8	4446	331	5554	687
314	4684	330	8	4777	331	5223	686
315	5015	331	7	5107	330	4893	685
316	5345	330	7	5438	331	4562	684
317	5675	330	7	5768	330	4232	683
318	6004	329	7	6097	329	3903	682
319	6334	330	7	6427	330	3573	681
0.01320	6663	329	7	6756	329	3244	0.98680
321	6992	329	7	7085	329	2915	679
322	7320	328	6	7414	329	2586	678
323	7649	329	6	7742	328	2258	677
324	7977	328	6	8071	329	1930	676
325	8.318304	327	9.999906	8.318399	328	11.681602	675
326	8632	328	6	8726	327	1274	674
327	8959	327	6	9054	328	0946	673
328	9287	328	6	9381	327	0619	672
329	9613	326	5	8.319708	327	11.680292	671
0.01330	8.319940	327	5	8.320035	327	11.679965	0.98670
331	8.320266	326	5	0361	326	9639	669
332	0592	326	5	0688	327	9313	668
333	0918	326	5	1014	326	8987	667
334	1244	325	5	1339	325	8661	666
335	1569	325	5	1665	326	8335	665
336	1895	324	4	1990	325	8010	664
337	2219	324	4	2315	325	7685	663
338	2544	325	4	2640	325	7360	662
339	2868	324	4	2965	325	7036	661
0.01340	3193	325	4	3289	324	6711	0.98660
341	3517	324	4	3613	324	6387	659
342	3840	323	4	3937	324	6063	658
343	4164	324	3	4260	323	5740	657
344	4487	323	3	4584	324	5416	656
345	4810	323	3	4907	323	5093	655
346	5133	323	3	5230	323	4770	654
347	5455	322	3	5552	322	4448	653
348	5777	322	3	5875	323	4125	652
349	6099	322	3	6197	322	3803	651
0.01350	8.326421	322	9.999902	8.326519	322	11.673481	0.98650

Arc. Log. Cosin. Dif. Log. Sin. Log. Cot. Dif. Log. Tang. Arc.

0. 013.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
1.01350	8.326421	322	9.999902	8.326519	321	11.673481	0.98650
351	6743	321	2	6840	322	3160	649
352	7064	321	2	7162	321	2838	648
353	7385	321	2	7483	321	2517	647
354	7706	320	2	7804	321	2196	646
355	8026	321	2	8125	320	1875	645
356	8347	320	2	8445	321	1555	644
357	8667	320	1	8766	320	1235	643
358	8987	319	1	9086	320	915	642
359	9306	320	1	9406	319	595	641
1.01360	9626	319	1	8.329725	319	11.670275	640
361	8.329945	319	1	8.330044	319	11.669956	639
362	8.330264	319	1	0363	319	9637	638
363	0583	318	1	0682	319	9318	637
364	0901	318	0	1001	318	8999	636
365	1219	318	0	1319	318	8681	635
366	1537	318	0	1637	318	8363	634
367	1855	318	0	1955	318	8045	633
368	2173	317	0	2273	317	7727	632
369	2490	317	9.999900	2590	318	7410	631
1.01370	2807	317	9.999999	2908	317	7093	0.98630
371	3124	316	99	3225	316	6776	629
372	3440	317	99	3541	317	6459	628
373	3757	316	99	3858	316	6142	627
374	4073	316	9.999899	4174	316	5826	626
375	8.334389	316	9.999899	8.334490	316	11.665510	625
376	4705	315	9	4806	316	5194	624
377	5020	315	8	5122	315	4878	623
378	5335	315	8	5437	315	4563	622
379	5650	315	8	5752	315	4248	621
1.01380	5965	315	8	6067	315	3933	0.98620
381	6280	314	8	6382	314	3618	619
382	6594	314	8	6696	314	3304	618
383	6908	314	8	7010	314	2990	617
384	7222	313	7	7324	314	2676	616
385	7535	314	7	7638	314	2362	615
386	7849	313	7	7952	313	2048	614
387	8162	313	7	8265	313	1735	613
388	8475	313	7	8578	313	1422	612
389	8788	312	7	8891	313	1109	611
1.01390	9100	313	7	9204	312	0796	0.98610
391	9413	312	6	9516	312	0484	609
392	8.339725	311	6	8.339828	312	11.660172	608
393	8.340036	312	6	8.340140	312	11.659860	607
394	0348	311	6	0452	312	9548	606
395	0659	312	6	0764	311	9236	605
396	0971	310	6	1075	311	8925	604
397	1281	311	5	1386	311	8614	603
398	1592	311	5	1697	311	8303	602
399	1903	310	5	2008	311	7993	601
1.01400	8.342213	310	9.999895	8.342318	310	11.657682	0.98600

0. 986.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
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0.014.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.01400	8.342213	310	9.999895	8.342318	310	11.657682	0.98600
401	2523	310	5	2628	310	7372	599
402	2833	309	5	2938	310	7062	598
403	3142	310	5	3248	309	6752	597
404	3452	309	4	3557	310	6443	596
405	3761	309	4	3867	309	6133	595
406	4070	309	4	4176	309	5824	594
407	4379	308	4	4485	308	5515	593
408	4687	308	4	4793	309	5207	592
409	4995	309	4	5102	308	4898	591
0.01410	5304	307	4	5410	308	4590	0.98590
411	5611	308	3	5718	308	4282	589
412	5919	307	3	6026	307	3974	588
413	6226	308	3	6333	308	3667	587
414	6534	307	3	6641	307	3359	586
415	6841	306	3	6948	307	3052	585
416	7147	307	3	7255	307	2745	584
417	7454	306	2	7562	306	2439	583
418	7760	306	2	7868	306	2132	582
419	8066	306	2	8174	306	1826	581
0.01420	8372	306	2	8480	306	1520	0.98580
421	8678	305	2	8786	306	1214	579
422	8983	306	2	9092	305	0908	578
423	9289	305	2	9397	305	0603	577
424	9594	305	1	8.349702	305	11.650298	576
425	8.349899	305	9.999891	8.350007	305	11.649993	575
426	8.350203	304	1	0312	305	9688	574
427	0508	304	1	0617	304	9383	573
428	0812	304	1	0921	304	9079	572
429	1116	304	1	1225	304	8775	571
0.01430	1419	303	0	1529	304	8471	0.98570
431	1723	304	0	1833	303	8167	569
432	2026	303	0	2136	303	7864	568
433	2329	303	9.999890	2439	304	7561	567
434	2632	303	9.999890	2743	304	7258	566
435	2935	303	90	3045	303	6955	565
436	3238	302	90	3348	302	6652	564
437	3540	302	89	3650	303	6350	563
438	3842	302	89	3953	302	6047	562
439	4144	301	89	4255	301	5745	561
0.01440	4445	302	89	4556	302	5444	0.98560
441	4747	301	89	4858	301	5142	559
442	5048	301	89	5159	302	4841	558
443	5349	301	88	5461	301	4539	557
444	5650	300	88	5762	300	4238	556
445	5950	301	88	6062	301	3938	555
446	6251	300	88	6363	300	3637	554
447	6551	300	88	6663	300	3337	553
448	6851	300	88	6963	300	3037	552
449	7151	300	88	7263	300	2737	551
0.01450	8.357450	299	9.999887	8.357563	300	11.642437	0.98550

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0.085.

0.019.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.01950	8.486087	222	9.999796	8.486290	223	11.513710	0.98050
951	6309	223	6	6513	223	3487	049
952	6532	222	6	6736	222	3264	048
953	6754	222	6	6958	222	3042	047
954	6976	222	5	7181	223	2819	046
955	7198	222	5	7403	222	2597	045
956	7420	222	5	7625	222	2375	044
957	7642	222	5	7848	223	2153	043
958	7864	222	5	8070	222	1931	042
959	8086	222	4	8291	221	1709	041
0.01960	8307	221	4	8513	222	1487	0.98040
961	8529	222	4	8735	222	1265	039
962	8750	221	4	8956	221	1044	038
963	8971	221	4	9178	222	0822	037
964	9193	222	3	9399	221	0601	036
965	9414	221	3	9620	221	0380	035
966	9634	220	3	8.489842	222	11.510159	034
967	8.489855	221	3	8.490063	221	11.509938	033
968	8.490076	221	3	0283	220	9717	032
969	0296	220	2	0504	221	9496	031
0.01970	0517	221	2	0725	221	9275	0.98030
971	0737	220	2	0945	220	9055	029
972	0957	220	2	1166	221	8834	028
973	1177	220	1	1386	220	8614	027
974	1397	220	1	1606	220	8394	026
975	8.491617	220	1	8.491826	220	11.508174	025
976	1837	220	1	2046	220	7954	024
977	2057	220	1	2266	220	7734	023
978	2276	219	0	2486	220	7514	022
979	2496	220	9.999790	2706	220	7294	021
0.01980	2715	219	9.999790	2925	219	7075	0.98020
981	2934	219	90	3145	220	6855	019
982	3153	219	90	3364	219	6636	018
983	3372	219	89	3583	219	6417	017
984	3591	219	89	3802	219	6198	016
985	3810	219	89	4021	219	5979	015
986	4029	219	89	4240	219	5760	014
987	4247	218	88	4459	219	5541	013
988	4466	219	88	4678	219	5323	012
989	4684	218	88	4896	218	5104	011
0.01990	4902	218	88	5114	218	4886	0.98010
991	5120	218	88	5333	219	4667	009
992	5338	218	87	5551	218	4449	008
993	5556	218	87	5769	218	4231	007
994	5774	218	87	5987	218	4013	006
995	5992	218	87	6205	218	3795	005
996	6209	217	87	6423	218	3577	004
997	6427	218	86	6640	217	3360	003
998	6644	217	86	6858	218	3142	002
999	6861	217	86	7075	217	2925	001
0.02000	8.497078	217	9.999786	8.497293	218	11.502707	0.98000

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Cot.	Dif.	Log Tang.	Arc.
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0.980.

O. 020.

Arc.	Log. Sin.		Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	
0.02000	8.497078	218	9.999786	8.497293	217	11.502707	0.9
001	7296	216	5	7510	217	2490	0.9
002	7512	217	5	7727	217	2273	
003	7729	217	5	7944	217	2056	
004	7946	217	5	8161	217	1839	
005	8163	216	5	8378	217	1622	
006	8379	216	4	8595	216	1405	
007	8595	217	4	8811	217	1189	
008	8812	216	4	9028	216	972	
009	9028	216	4	9244	216	756	
0.02010	9244	216	4	9460	216	540	0.9
011	9460	216	3	9676	217	324	
012	9676	215	3	8.499893	215	11.500108	
013	8.499891	216	3	8.500108	216	11.499892	
014	8.500107	215	3	0324	216	9676	
015	0322	216	2	0540	216	9460	
016	0538	215	2	0756	215	9244	
017	0753	215	2	0971	215	9029	
018	0968	215	2	1187	216	8814	
019	1183	215	2	1402	215	8598	
0.02020	1398	215	1	1617	215	8383	0.9
021	1613	215	1	1832	215	8168	
022	1828	215	1	2047	215	7953	
023	2043	215	1	2262	215	7738	
024	2257	214	1	2477	214	7523	
025	8.502472	214	0	8.502691	214	11.497309	
026	2686	214	9.999780	2906	214	7094	
027	2900	214	9.999780	3120	215	6880	
028	3114	214	80	3335	215	6665	
029	3328	214	79	3549	214	6451	
0.02030	3542	214	9	3763	214	6237	0.9
031	3756	214	9	3977	214	6023	
032	3970	213	9	4191	214	5809	
033	4183	214	9	4405	214	5595	
034	4397	213	8	4619	213	5381	
035	4610	214	8	4832	214	5168	
036	4824	213	8	5046	213	4954	
037	5037	213	8	5259	214	4741	
038	5250	213	7	5473	213	4528	
039	5463	213	7	5686	213	4314	
0.02040	5676	213	7	5899	213	4101	0.9
041	5889	212	7	6112	213	3888	
042	6101	213	7	6325	212	3675	
043	6314	212	6	6537	213	3463	
044	6526	213	6	6750	213	3250	
045	6739	212	6	6963	212	3037	
046	6951	212	6	7175	212	2825	
047	7163	212	6	7387	213	2613	
048	7375	212	5	7600	212	2400	
049	7587	212	5	7812	212	2188	
0.02050	8.507799	212	9.999775	8.508024	212	11.491976	0.9

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	
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0.020.

Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
8.507799	211	9.999773	8.508024	212	11.491976	0.97950
8010	212	5	8236	212	1764	949
8222	212	4	8448	211	1552	948
8434	211	4	8659	212	1341	947
8645	211	4	8871	212	1129	946
8856	212	4	9083	211	0917	945
9068	211	4	9294	211	0706	944
9279	211	3	9505	212	0495	943
9490	211	3	9717	211	0283	942
9701	210	3	8.509928	211	11.490072	941
8.509911	211	3	8.510139	211	11.489861	0.97940
8.510122	211	2	0350	210	9650	939
0333	210	2	0560	210	9440	938
0543	211	2	0771	211	9229	937
0754	210	2	0982	210	9018	936
0964	210	2	1192	211	8808	935
1174	210	1	1403	210	8597	934
1384	210	1	1613	210	8387	933
1594	210	1	1823	210	8177	932
1804	210	1	2033	210	7967	931
2014	209	0	2243	210	7757	0.97930
2223	210	9.999770	2453	210	7547	929
2433	209	9.999770	2663	210	7337	928
2642	210	70	2873	210	7127	927
2852	209	70	3082	209	6918	926
8.513061	209	69	8.513292	210	11.486708	925
3270	209	69	3501	210	6499	924
3479	209	69	3711	209	6290	923
3688	209	69	3920	209	6080	922
3897	209	68	4129	209	5871	921
4106	209	8	4338	209	5662	0.97920
4315	208	8	4547	209	5453	919
4523	209	8	4756	208	5245	918
4732	208	8	4964	209	5036	917
4940	208	7	5173	208	4827	916
5148	209	7	5381	208	4619	915
5357	208	7	5590	209	4410	914
5565	208	7	5798	208	4202	913
5773	207	6	6006	208	3994	912
5980	208	6	6214	208	3786	911
6188	208	6	6422	208	3578	0.97910
6396	207	6	6630	208	3370	909
6603	208	6	6838	208	3162	908
6811	207	5	7046	207	2954	907
7018	208	5	7253	208	2747	906
7226	207	5	7461	207	2539	905
7433	207	5	7668	207	2332	904
7640	207	4	7875	208	2125	903
7847	207	4	8083	207	1917	902
8054	206	4	8290	207	1710	901
8.518260	206	9.999764	8.518497	207	11.481503	0.97900
Log. Sin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.016.

Arc.	Log. Sin.		Log. Cosin.	Log. Tang.		Log. Cot.	Arc.
0.01600	8.400194		9.999863	8.400331		11.599669	0.98400
		Dif.			Dif.		
601	0465	271	3	0603	272	9397	399
602	0737	272	3	0874	271	9126	398
603	1008	271	2	1145	271	8855	397
604	1278	270	2	1416	271	8584	396
605	1549	270	2	1687	271	8313	395
606	1819	270	2	1958	270	8042	394
607	2090	270	2	2228	270	7772	393
608	2360	270	1	2498	270	7502	392
609	2630	270	1	2768	270	7232	391
0.01610	2900	269	1	3038	270	6962	0.98390
611	3169	270	1	3308	270	6692	389
612	3439	269	1	3578	269	6422	388
613	3708	269	1	3847	270	6153	387
614	3977	269	0	4117	269	5884	386
615	4246	269	0	4386	269	5614	385
616	4515	268	9.999860	4655	268	5346	384
617	4785	269	9.999860	4923	269	5077	383
618	5052	268	60	5192	268	4808	382
619	5320	268	60	5460	269	4540	381
0.01620	5588	268	59	5729	268	4271	0.98380
621	5856	268	59	5997	268	4003	379
622	6124	267	59	6265	268	3735	378
623	6391	268	59	6533	267	3468	377
624	6659	267	59	6800	268	3200	376
625	8.406926	267	9.999859	8.407068	267	11.592932	375
626	7193	267	58	7335	267	2665	374
627	7460	267	58	7602	267	2398	373
628	7727	267	58	7869	267	2131	372
629	7994	266	58	8136	266	1864	371
0.01630	8260	266	58	8402	267	1598	0.98370
631	8526	267	58	8669	266	1331	369
632	8793	265	57	8935	266	1065	368
633	9058	266	7	9201	266	799	367
634	9324	266	7	9467	266	533	366
635	9590	265	7	9733	266	267	365
636	8.409855	266	7	8.409999	265	11.590001	364
637	8.410121	265	6	8.410264	266	11.589736	363
638	0386	265	6	0530	265	9470	362
639	0651	265	6	0795	265	9205	361
0.01640	0916	264	6	1060	265	8940	0.98360
641	1180	265	6	1325	264	8675	359
642	1445	264	6	1589	265	8411	358
643	1709	264	5	1854	264	8146	357
644	1973	264	5	2118	265	7882	356
645	2237	264	5	2383	264	7618	355
646	2501	264	5	2647	263	7354	354
647	2765	264	5	2910	264	7090	353
648	3029	263	5	3174	264	6826	352
649	3292	263	4	3438	263	6562	351
0.01650	8.413555	263	9.999854	8.413701	263	11.586299	0.98350

0.021.

Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
8.528476		9.999752	8.528724		11.471277	0.97850
8678	202	2	8926	202	1074	849
8879	201	2	9128	202	0872	848
9081	202	2	9330	202	0671	847
9283	202	1	9531	201	0469	846
9484	201	1	9733	202	0267	845
9686	202	1	8.529935	202	11.470065	844
8.529887	201	1	8.530136	201	11.469864	843
8.530088	201	0	0338	202	9662	842
0289	201	0	0539	201	9461	841
0490	201	9.999750	0740	201	9260	0.97840
0691	201	9.999750	0942	202	9059	839
0892	201	50	1143	201	8857	838
1093	201	49	1344	201	8656	837
1294	201	9	1544	200	8456	836
1494	200	9	1745	201	8255	835
1695	201	9	1946	201	8054	834
1895	200	8	2147	201	7853	833
2095	200	8	2347	200	7653	832
2295	200	8	2548	201	7453	831
2496	200	8	2748	200	7252	0.97830
2696	199	7	2948	200	7052	829
2895	200	7	3148	200	6852	828
3095	200	7	3348	200	6652	827
3295	200	7	3548	200	6452	826
8.533495	199	9.999747	8.533748	200	11.466252	825
3694	200	6	3948	200	6052	824
3894	199	6	4148	200	5852	823
4093	199	6	4347	199	5653	822
4292	200	6	4547	200	5453	821
4492	200	5	4746	199	5254	0.97820
4691	199	5	4946	200	5055	819
4890	199	5	5145	199	4855	818
5089	199	5	5344	199	4656	817
5287	198	4	5543	199	4457	816
5486	199	4	5742	199	4258	815
5685	199	4	5941	199	4059	814
5883	198	4	6140	199	3860	813
6082	199	3	6338	198	3662	812
6280	198	3	6537	199	3463	811
6478	198	3	6735	198	3265	0.97810
6677	199	3	6934	199	3066	809
6875	198	3	7132	198	2868	808
7073	198	2	7330	198	2670	807
7271	198	2	7529	199	2472	806
7468	197	2	7727	198	2274	805
7666	198	2	7925	198	2076	804
7864	198	1	8122	197	1878	803
8061	197	1	8320	198	1680	802
8259	198	1	8518	198	1482	801
8.538456	197	9.999741	8.538716	198	11.461285	0.97800
Log. Sin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.017.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.01700	8.426517	256	9.999845	8.426672	256	11.573328	0.98300
701	6773	255	5	6928	255	3072	299
702	7028	255	5	7183	255	2817	298
703	7283	255	5	7438	255	2562	297
704	7538	254	4	7693	255	2307	296
705	7792	255	4	7948	255	2052	295
706	8047	254	4	8203	255	1797	294
707	8301	255	4	8458	254	1543	293
708	8556	254	4	8712	254	1288	292
709	8810	254	4	8966	255	1034	291
0.01710	9064	254	3	9221	254	0780	0.98290
711	9318	253	3	9475	253	0526	289
712	9571	254	3	9728	254	0272	288
713	8.429825	253	3	8.429982	254	11.570018	287
714	8.430078	254	3	8.430236	253	11.569764	286
715	0332	253	2	0489	253	9511	285
716	0585	253	2	0742	254	9258	284
717	0838	252	2	0996	253	9005	283
718	1090	253	2	1249	252	8752	282
719	1343	253	2	1501	252	8499	281
0.01720	1596	252	2	1754	253	8246	0.98280
721	1848	252	1	2007	252	7993	279
722	2100	252	1	2259	252	7741	278
723	2352	252	1	2511	252	7489	277
724	2604	252	1	2763	252	7237	276
725	8.432856	252	1	8.433015	252	11.566985	275
726	3108	251	0	3267	252	6733	274
727	3359	251	0	3519	251	6481	273
728	3610	251	9.999840	3770	251	6230	272
729	3862	252	9.999840	4022	252	5978	271
0.01730	4113	251	40	4273	251	5727	0.98270
731	4363	250	39	4524	251	5476	269
732	4614	251	39	4775	251	5225	268
733	4865	251	39	5026	251	4974	267
734	5115	250	39	5276	250	4724	266
735	5366	251	39	5527	251	4473	265
736	5616	250	39	5777	250	4223	264
737	5866	250	38	6028	251	3973	263
738	6116	250	38	6278	250	3722	262
739	6365	249	38	6528	250	3473	261
0.01740	6615	250	38	6777	249	3223	0.98260
741	6865	250	38	7027	250	2973	259
742	7114	249	37	7276	249	2724	258
743	7363	249	37	7526	250	2474	257
744	7612	249	37	7775	249	2225	256
745	7861	249	37	8024	249	1976	255
746	8110	249	37	8273	249	1727	254
747	8358	248	37	8522	249	1478	253
748	8607	249	36	8771	249	1230	252
749	8855	248	36	9019	248	0981	251
0.01750	8.439103	248	9.999826	8.439267	248	11.560733	0.98250
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
101750	8.439103	248	9.999836	8.439267	249	11.560733	0.98250
751	9351	248	6	9516	248	0484	249
752	9599	248	6	8.439764	248	11.560236	248
753	8.439847	248	5	8.440012	247	11.559988	247
754	8.440095	247	5	0259	248	9741	246
755	0342	247	5	0507	248	9493	245
756	0589	248	5	0755	247	9246	244
757	0837	247	5	1002	247	8998	243
758	1084	247	4	1249	247	8751	242
759	1331	246	4	1496	247	8504	241
101760	1577	247	4	1743	247	8257	0.98240
761	1824	246	4	1990	247	8010	239
762	2070	247	4	2237	246	7763	238
763	2317	246	3	2483	247	7517	237
764	2563	246	3	2730	246	7270	236
765	2809	246	3	2976	246	7024	235
766	3055	246	3	3222	246	6778	234
767	3301	245	3	3468	246	6532	233
768	3546	246	3	3714	246	6286	232
769	3792	245	2	3960	245	6041	231
101770	4037	245	2	4205	246	5795	0.98230
771	4282	246	2	4451	245	5550	229
772	4528	245	2	4696	245	5304	228
773	4773	244	2	4941	245	5059	227
774	5017	244	1	5186	245	4814	226
775	8.445262	245	9.999831	8.445431	245	11.554569	225
776	5507	244	1	5676	244	4525	224
777	5751	244	1	5920	245	4080	223
778	5995	244	1	6165	244	3835	222
779	6239	244	0	6409	244	3591	221
101780	6483	244	0	6653	244	3347	0.98220
781	6727	244	9.999830	6897	244	3103	219
782	6971	243	9.999830	7141	244	2859	218
783	7214	243	30	7385	244	2615	217
784	7458	243	30	7628	243	2372	216
785	7701	243	29	7872	244	2128	215
786	7944	243	29	8115	244	1885	214
787	8187	243	29	8359	243	1642	213
788	8430	243	29	8602	243	1398	212
789	8673	243	29	8845	243	1155	211
101790	8916	242	28	9087	242	0913	0.98210
791	9158	243	28	9330	243	0670	209
792	9401	242	28	9573	242	0427	208
793	9643	242	28	8.449815	242	11.550185	207
794	8.449885	242	28	8.450057	242	11.549943	206
795	8.450127	242	27	0299	242	9701	205
796	0369	241	27	0541	242	9459	204
797	0610	242	27	0783	242	9217	203
798	0852	241	27	1025	242	8975	202
799	1093	242	27	1267	242	8733	201
101800	8.451335	242	9.999826	8.451508	241	11.548492	0.98200
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.023.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	J
0.02300	8.557753		9.999717	8.558037		11.441963	0.9
301	7942	189	6	8226	189	1774	
302	8131	189	6	8415	189	1586	
303	8319	188	6	8603	188	1397	
304	8508	189	6	8792	189	1208	
305	8696	188	5	8981	189	1019	
306	8884	188	5	9169	188	0831	
307	9072	188	5	9358	189	0642	
308	9261	189	5	9546	188	0454	
309	9449	188	4	9734	188	0266	
0.02310	9637	188	4	8.559923	189	11.440078	0.9
311	8.559824	187	4	8.560111	188	11.439889	
312	8.560012	188	4	0299	188	9701	
313	0200	188	3	0487	188	9513	
314	0388	188	3	0675	188	9325	
315	0575	187	3	0862	187	9138	
316	0763	188	3	1050	188	8950	
317	0950	187	2	1238	188	8762	
318	1137	187	2	1425	187	8575	
319	1325	188	2	1613	188	8387	
0.02320	1512	187	2	1800	187	8200	0.9
321	1699	187	1	1988	188	8013	
322	1886	187	1	2175	187	7825	
323	2073	187	1	2362	187	7638	
324	2260	186	1	2549	187	7451	
325	8.562446	187	0	8.562736	187	11.437264	
326	2633	187	9.999710	2923	187	7077	
327	2820	186	9.999710	3110	187	6890	
328	3006	187	10	3297	186	6704	
329	3193	186	9	3483	187	6517	
0.02330	3379	186	9	3670	186	6330	0.9
331	3565	186	9	3856	187	6144	
332	3751	186	9	4043	186	5957	
333	3937	186	8	4229	186	5771	
334	4123	186	8	4415	187	5585	
335	4309	186	8	4602	186	5398	
336	4495	186	8	4788	186	5212	
337	4681	186	7	4974	186	5026	
338	4867	185	7	5160	186	4840	
339	5052	186	7	5346	185	4654	
0.02340	5238	185	7	5531	185	4469	0.9
341	5423	186	6	5717	186	4283	
342	5609	185	6	5903	185	4097	
343	5794	185	6	6088	186	3912	
344	5979	186	6	6274	185	3726	
345	6165	185	5	6459	186	3541	
346	6350	185	5	6645	185	3356	
347	6535	185	5	6830	185	3170	
348	6720	184	5	7015	185	2985	
349	6904	185	4	7200	185	2800	
0.02350	8.567089	185	9.999704	8.567385	185	11.432615	0.9

Arc. Log. Cosin. Dif. Log. Sin. Log. Cot. Dif. Log. Tang. A.

0.018.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	A. c.
01850	8.463231	234	9.999817	8.463414	235	11.536586	0.98150
851	3465	235	6	3649	234	6351	149
852	3700	234	6	3883	235	6117	148
853	3934	234	6	4118	234	5882	147
854	4168	234	6	4352	235	5648	146
855	4402	234	6	4587	234	5413	145
856	4636	234	5	4821	234	5179	144
857	4870	234	5	5055	234	4945	143
858	5104	234	5	5289	234	4711	142
859	5338	233	5	5523	234	4477	141
01860	5571	233	5	5756	233	4244	0.98140
861	5804	234	4	5990	233	4010	139
862	6038	233	4	6223	234	3777	138
863	6271	233	4	6457	233	3543	137
864	6504	233	4	6690	233	3310	136
865	6737	232	4	6923	233	3077	135
866	6969	233	3	7156	233	2844	134
867	7202	232	3	7389	232	2611	133
868	7434	233	3	7621	233	2379	132
869	7667	232	3	7854	232	2146	131
01870	7899	232	3	8086	232	1914	0.98130
871	8131	232	2	8319	232	1681	129
872	8363	232	2	8551	232	1449	128
873	8595	232	2	8783	232	1217	127
874	8827	231	2	9015	232	985	126
875	8.469058	232	9.999812	8.469247	231	11.530753	125
876	9290	231	1	9478	232	6522	124
877	9521	232	1	9710	232	6290	123
878	9753	231	1	8.469942	231	11.530059	122
879	8.469984	231	1	8.470173	231	11.529827	121
01880	8.470215	231	1	0404	231	9596	0.98120
881	0446	230	0	0635	231	9365	119
882	0676	231	0	0866	231	9134	118
883	0907	230	9.999810	1097	231	8903	117
884	1137	231	9.999810	1328	231	8672	116
885	1368	230	10	1558	230	8442	115
886	1598	230	09	1789	230	8211	114
887	1828	230	09	2019	230	7981	113
888	2058	230	09	2249	230	7751	112
889	2288	230	09	2479	230	7521	111
01890	2518	230	09	2709	230	7291	0.98110
891	2748	229	08	2939	230	7061	109
892	2977	230	08	3169	230	6831	108
893	3207	229	08	3399	229	6602	107
894	3436	229	08	3628	229	6372	106
895	3665	229	07	3858	230	6143	105
896	3894	229	07	4087	229	5913	104
897	4123	229	07	4316	229	5684	103
898	4352	228	07	4545	229	5455	102
899	4580	229	07	4774	229	5226	101
01900	8.474809	229	9.999807	8.475003	229	11.524998	0.98100
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.981.

0.024.

Arc.	Log. sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	A
0.02400	8.576228	181	9.999691	8.576537	181	11.423463	0.97
401	6409	181	1	6718	181	3282	
402	6590	181	1	6899	181	3101	
403	6771	181	1	7080	181	2920	
404	6951	181	0	7261	181	2739	
405	7132	181	9.999690	7442	181	2558	
406	7312	180	9.999690	7622	180	2378	
407	7493	181	90	7803	181	2197	
408	7673	180	9	7984	181	2017	
409	7853	180	9	8164	180	1836	
0.02410	8033	180	9	8345	181	1656	0.97
411	8213	180	9	8525	180	1475	
412	8393	180	8	8705	180	1295	
413	8573	180	8	8885	180	1115	
414	8753	180	8	9065	180	935	
415	8933	180	7	9245	180	755	
416	9113	179	7	9425	180	575	
417	9292	180	7	9605	180	395	
418	9472	180	7	9785	180	215	
419	9651	179	6	8.579965	180	11.420035	
0.02420	8.579831	180	6	8.580145	180	11.419856	0.97
421	8.580010	179	6	0324	179	9676	
422	0180	179	6	0504	180	9496	
423	0368	179	5	0683	179	9317	
424	0548	180	5	0862	179	9138	
425	0727	179	9.999685	8.581042	180	11.418958	
426	0906	179	5	1221	179	8779	
427	1084	178	4	1400	179	8600	
428	1263	179	4	1579	179	8421	
429	1442	179	4	1758	179	8242	
0.02430	1621	179	4	1937	179	8063	0.97
431	1799	178	3	2116	179	7884	
432	1978	179	3	2295	179	7705	
433	2156	178	3	2474	179	7527	
434	2335	179	3	2652	178	7348	
435	2513	178	2	2831	179	7169	
436	2691	178	2	3009	178	6991	
437	2869	178	2	3188	179	6812	
438	3047	178	2	3366	178	6634	
439	3225	178	1	3544	178	6456	
0.02440	3403	178	1	3722	178	6278	0.97
441	3581	178	1	3901	179	6099	
442	3759	178	0	4079	178	5921	
443	3937	178	9.999680	4257	178	5743	
444	4114	177	9.999680	4435	178	5566	
445	4292	178	80	4612	177	5388	
446	4470	178	9	4790	178	5210	
447	4647	177	9	4968	178	5032	
448	4824	177	9	5145	177	4855	
449	5002	178	9	5323	178	4677	
0.02450	8.585179	177	9.999678	8.585500	177	11.414500	0.97
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	A

0.075.

0.024.

rc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
2450	8.585179	177	9.999678	8.585500	178	11.414500	0.97550
451	5356	177	8	5678	178	4322	549
452	5533	177	8	5855	177	4145	548
453	5710	177	8	6032	177	3968	547
454	5887	177	7	6210	178	3790	546
455	6064	177	7	6387	177	3613	545
456	6241	177	7	6564	177	3436	544
457	6417	176	7	6741	177	3259	543
458	6594	177	6	6918	177	3082	542
459	6770	176	6	7095	177	2906	541
2460	6947	177	6	7271	176	2729	0.97540
461	7123	176	5	7448	177	2552	539
462	7300	177	5	7625	177	2376	538
463	7476	176	5	7801	176	2199	537
464	7652	176	5	7978	177	2023	536
465	7828	176	4	8154	176	1846	535
466	8004	176	4	8330	176	1670	534
467	8180	176	4	8507	177	1494	533
468	8356	176	4	8683	176	1317	532
469	8532	176	3	8859	176	1141	531
2470	8708	176	3	9035	176	965	0.97530
471	8884	176	3	9211	176	789	529
472	9059	175	3	9387	176	613	528
473	9235	176	2	9563	176	438	527
474	9410	175	2	9738	175	262	526
475	9586	176	2	9914	176	86	525
476	9761	175	1	8.590090	176	11.410086	524
77	8.58936	175	1	0265	175	11.409910	523
78	8.590112	176	1	0441	176	9735	523
79	0287	175	1	0616	175	9559	522
80	0462	175	0	0791	175	9384	521
81	0637	175	0	0967	175	9209	0.97520
82	0812	175	9.999670	1142	175	9033	519
83	0987	175	9.999670	1317	175	8858	518
84	1161	174	70	1492	175	8683	517
85	1336	175	9	1667	175	8508	516
86	1511	175	9	1842	175	8333	515
87	1685	174	9	2017	175	8158	514
88	1860	175	9	2191	174	7983	513
89	2034	174	8	2366	174	7809	512
90	2209	175	8	2541	175	7634	511
91	2383	174	8	2715	175	7459	0.97510
92	2557	174	8	2890	174	7285	509
93	2731	174	7	3064	175	7110	508
94	2905	174	7	3239	174	6936	507
95	3079	174	7	3413	175	6761	506
96	3253	174	6	3587	174	6587	505
97	3427	174	6	3761	174	6413	504
98	3601	174	6	3935	174	6239	503
99	3775	174	6	4109	174	6065	502
00	8.593948	173	5	4283	174	5891	501
			9.999665	8.594283		11.405717	0.97500

Log. Cosin. Dif. Log. Sin. Log. Cot. Dif. Log. Tang. Arc.

0.975.

0.025.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	A
0.02500	8.593948		9.999665	8.594283		11.405717	0.9
501	4122	174	5	4457	174	5543	
502	4295	173	5	4631	174	5369	
503	4469	174	4	4805	174	5195	
504	4642	173	4	4978	173	5022	
505	4816	174	4	5152	174	4848	
506	4989	173	3	5325	173	4675	
507	5162	173	3	5499	174	4501	
508	5335	173	3	5672	173	4328	
509	5508	173	3	5846	174	4155	
0.02510	5681	173	2	6019	173	3981	0.9
511	5854	173	2	6192	173	3808	
512	6027	173	2	6365	173	3635	
513	6200	173	2	6538	173	3462	
514	6372	172	1	6711	173	3289	
515	6545	173	1	6884	173	3116	
516	6718	173	1	7057	173	2943	
517	6890	172	1	7230	173	2771	
518	7062	172	9.999660	7402	172	2598	
519	7235	173	9.999660	7575	173	2425	
0.02520	7407	172	60	7747	172	2253	0.9
521	7579	172	9	7920	173	2080	
522	7751	172	9	8092	172	1908	
523	7923	172	9	8265	173	1735	
524	8095	172	9	8437	172	1563	
525	8.598167	172	9.999658	8.598609	172	11.401391	
526	8439	172	8	8781	172	1219	
527	8611	172	8	8953	172	1047	
528	8783	172	8	9125	172	0875	
529	8955	172	7	9297	172	0703	
0.02530	9126	171	7	9469	172	0531	0.9
531	9298	172	7	9641	172	0359	
532	9469	171	6	9813	172	0187	
533	9641	172	6	8.599984	171	11.400016	
534	9812	171	6	8.600156	172	11.399844	
535	8.599983	171	6	0328	172	9673	
536	8.600154	171	5	0499	171	9501	
537	0325	171	5	0670	172	9330	
538	0496	171	5	0842	171	9158	
539	0667	171	5	1013	171	8987	
0.02540	0838	171	4	1184	171	8816	0.9
541	1009	171	4	1355	171	8645	
542	1180	171	4	1526	171	8474	
543	1351	171	3	1697	171	8303	
544	1521	170	3	1868	171	8132	
545	1692	171	3	2039	171	7961	
546	1863	171	3	2210	171	7790	
547	2033	170	2	2381	171	7619	
548	2203	170	2	2551	170	7449	
549	2374	171	2	2722	171	7278	
0.02550	8.602544	170	9.999652	8.602892	171	11.397108	0.9

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.
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0.974.

0.020.

Ar.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0050	8.507799	211	9.999773	8.508024	212	11.491976	0.97950
051	8010	212	5	8236	212	1764	949
052	8222	212	4	8448	211	1552	948
053	8434	211	4	8659	212	1341	947
054	8645	211	4	8871	212	1129	946
055	8856	212	4	9083	211	917	945
056	9068	211	4	9294	211	706	944
057	9279	211	3	9505	212	495	943
058	9490	211	3	9717	211	283	942
059	9701	210	3	8.509928	211	11.496072	941
0060	8.509911	211	3	8.510139	211	11.489861	0.97940
061	8.510122	211	2	0350	210	9650	939
062	0333	210	2	0560	210	9440	938
063	0543	211	2	0771	210	9229	937
064	0754	210	2	0982	210	9018	936
065	0964	210	2	1192	211	8808	935
066	1174	210	1	1403	210	8597	934
067	1384	210	1	1613	210	8387	933
068	1594	210	1	1823	210	8177	932
069	1804	210	1	2033	210	7967	931
0070	2014	209	0	2243	210	7757	0.97930
071	2223	210	9.999770	2453	210	7547	929
072	2433	209	9.999770	2663	210	7337	928
073	2642	210	70	2873	210	7127	927
074	2852	210	70	3082	209	6918	926
075	8.513061	209	69	8.513292	210	11.486708	925
076	3270	209	69	3501	210	6499	924
077	3479	209	69	3711	209	6290	923
078	3688	209	69	3920	209	6080	922
079	3897	209	68	4129	209	5871	921
0080	4106	209	8	4338	209	5662	0.97920
081	4315	208	8	4547	209	5453	919
082	4523	208	8	4756	208	5245	918
083	4732	208	8	4964	209	5036	917
084	4940	208	7	5173	208	4827	916
085	5148	209	7	5381	208	4619	915
086	5357	208	7	5590	208	4410	914
087	5565	208	7	5798	208	4202	913
088	5773	207	6	6006	208	3994	912
089	5980	208	6	6214	208	3786	911
0090	6188	208	6	6422	208	3578	0.97910
091	6396	207	6	6630	208	3370	909
092	6603	208	6	6838	208	3162	908
093	6811	207	5	7046	208	2954	907
094	7018	208	5	7253	207	2747	906
095	7226	207	5	7461	208	2539	905
096	7433	207	5	7668	207	2332	904
097	7640	207	4	7875	208	2125	903
098	7847	207	4	8083	207	1917	902
099	8054	206	4	8290	207	1710	901
00100	8.518260	206	9.999764	8.518497	207	11.481503	0.97900
Ar.	Log. Sin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.026.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	
0.02600	8.610973	166	9.999638	8.611335	167	11.38866-	
601	1139	167	7	1502	167	849	
602	1306	167	7	1669	167	833	
603	1473	167	7	1836	167	816	
604	1640	167	7	2003	167	799	
605	1806	166	6	2170	167	783	
606	1973	167	6	2337	167	766	
607	2140	167	6	2504	167	749	
608	2306	166	6	2671	166	733	
609	2472	166	5	2837	166	716	
0.02610	2639	167	5	3004	167	699	
611	2805	166	5	3170	166	683	
612	2971	166	4	3337	167	666	
613	3137	166	4	3503	166	649	
614	3303	166	4	3670	167	633	
615	3469	166	4	3836	166	616	
616	3635	166	3	4002	166	599	
617	3801	166	3	4168	166	583	
618	3967	166	3	4334	166	566	
619	4133	166	2	4501	167	550	
0.02620	4299	166	2	4667	166	533	0.973
621	4464	165	2	4832	165	516	
622	4630	166	2	4998	166	500	
623	4795	165	1	5164	166	483	
624	4961	166	1	5330	166	467	
625	8.615126	165	1	8.615495	165	11.384505	
626	5291	166	0	5661	166	433	
627	5457	165	9.999630	5827	166	417	
628	5622	165	9.999630	5992	165	400	
629	5787	165	30	6157	166	384	
0.02630	5952	165	9	6323	166	367	0.973
631	6117	165	9	6488	165	351	
632	6282	165	9	6653	165	334	
633	6447	165	8	6819	165	318	
634	6612	165	8	6984	165	301	
635	6777	164	8	7149	165	285	
636	6941	165	8	7314	165	268	
637	7106	164	7	7479	164	252	
638	7270	165	7	7643	165	235	
639	7435	164	7	7808	165	219	
0.02640	7599	165	7	7973	165	202	0.973
641	7764	164	6	8138	164	186	
642	7928	164	6	8302	165	169	
643	8092	165	6	8467	164	153	
644	8257	165	5	8631	164	136	
645	8421	164	5	8796	165	120	
646	8585	164	5	8960	164	104	
647	8749	164	5	9124	164	87	
648	8913	164	4	9288	164	71	
649	9077	164	4	9453	165	54	
0.02650	8.619240	163	9.999624	8.619617	164	11.380383	0.973
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.973.

0.026.

	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
650	8.619240	164	9.999624	8.619617	164	11.380383	0.97350
651	9404	164	3	9781	164	0219	349
652	9568	163	3	8.619945	164	11.380055	348
653	9731	163	3	8.620109	164	11.379891	347
654	8.619895	164	3	0273	164	9728	346
655	8.620059	164	2	0436	163	9564	345
656	0222	163	2	0600	164	9400	344
657	0385	163	2	0764	163	9236	343
658	0549	164	1	0927	163	9073	342
659	0712	163	1	1091	164	8909	341
0.02660	0875	163	1	1254	163	8746	0.97340
661	1038	163	1	1418	164	8582	339
662	1201	163	9.999620	1581	163	8419	338
663	1364	163	9.999620	1745	164	8256	337
664	1527	163	20	1908	163	8092	336
665	1690	163	9	2071	163	7929	335
666	1853	163	9	2234	163	7766	334
667	2016	163	9	2397	163	7603	333
668	2179	162	9	2560	163	7440	332
669	2341	162	8	2723	163	7277	331
0.02670	2504	162	8	2886	163	7114	0.97330
671	2666	162	8	3049	163	6951	329
672	2829	162	7	3212	163	6789	328
673	2991	162	7	3374	162	6626	327
674	3154	162	7	3537	163	6463	326
675	8.623316	162	9.999617	8.623699	162	11.376301	325
676	3478	162	6	3862	163	6138	324
677	3640	162	6	4024	162	5976	323
678	3802	162	6	4187	163	5813	322
679	3964	162	5	4349	162	5651	321
0.02680	4126	162	5	4511	162	5489	0.97320
681	4288	162	5	4674	163	5327	319
682	4450	162	5	4836	162	5164	318
683	4612	162	4	4998	162	5002	317
684	4774	161	4	5160	162	4840	316
685	4935	162	4	5322	162	4678	315
686	5097	162	3	5484	162	4516	314
687	5259	161	3	5646	161	4355	313
688	5420	162	3	5807	162	4193	312
689	5582	161	3	5969	162	4031	311
0.02690	5743	161	2	6131	161	3869	0.97310
691	5904	162	2	6292	161	3708	309
692	6066	161	2	6454	162	3546	308
693	6227	161	1	6615	161	3385	307
694	6388	161	1	6777	162	3223	306
695	6549	161	1	6938	161	3062	305
696	6710	161	0	7100	162	2901	304
697	6871	161	9.999610	7261	161	2739	303
698	7032	161	9.999610	7422	161	2578	302
699	7193	161	10	7583	161	2417	301
0.02700	8.627353	160	9.999609	8.627744	161	11.372256	0.97300

0. 027.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.
0.02700	8.627353	161	9.999609	8.627744	161	11.37225
701	7514	161	9	7905	161	209
702	7675	160	9	8066	161	193
703	7835	161	8	8227	161	177
704	7996	161	8	8388	161	161
705	8157	160	8	8549	160	145
706	8317	160	8	8709	161	129
707	8477	161	7	8870	161	113
708	8638	160	7	9031	160	969
709	8798	160	7	9191	160	809
0.02710	8958	160	6	9352	161	648
711	9118	160	6	9512	160	488
712	9278	160	6	9672	161	328
713	9438	160	6	9833	160	167
714	9598	160	5	8.629993	160	11.370007
715	9758	160	5	8.630153	160	11.369847
716	8.629918	160	5	0313	160	9687
717	8.630078	160	4	0473	160	9527
718	0237	159	4	0633	160	9367
719	0397	160	4	0793	160	9207
0.02720	0557	159	4	0953	160	9047
721	0716	160	3	1113	160	8887
722	0876	160	3	1273	160	8727
723	1035	159	3	1433	160	8568
724	1195	160	2	1592	159	8408
725	8.631354	159	9.999602	8.631752	160	11.368248
726	1513	159	2	1911	160	8089
727	1672	159	1	2071	159	7929
728	1831	159	1	2230	160	7770
729	1990	159	1	2390	159	7611
0.02730	2149	159	1	2549	159	7451
731	2308	159	0	2708	159	7292
732	2467	159	9.999600	2867	159	7133
733	2626	159	9.999600	3026	160	6974
734	2785	159	9	3186	159	6815
735	2944	158	9	3345	159	6656
736	3102	159	9	3504	158	6497
737	3261	158	9	3662	159	6338
738	3419	158	8	3821	159	6179
739	3578	158	8	3980	159	6020
0.02740	3736	159	8	4139	158	5861
741	3895	158	7	4297	159	5703
742	4053	158	7	4456	159	5544
743	4211	159	7	4615	158	5385
744	4370	158	7	4773	159	5227
745	4528	158	6	4932	158	5069
746	4686	158	6	5090	158	4910
747	4844	158	6	5248	159	4752
748	5002	158	5	5407	158	4594
749	5160	158	5	5565	158	4435
0.02750	8.635318	158	9.999595	8.635723	158	11.364277

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.
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0. 972.

G. 022.

Ar.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Ar.
0.02200	8.538456		9.999741	8.538716		11.461285	0.97800
201	8653	197	0	8913	197	1087	799
202	8851	198	9.999740	9110	197	0890	798
203	9048	197	9.999740	9308	198	0692	797
204	9245	197	40	9505	197	0495	796
205	9442	197	9	9702	197	0298	795
206	9639	197	9	8.539899	197	11.460101	794
207	8.539835	196	9	8.540096	197	11.459904	793
208	8.540032	197	9	0293	197	9707	792
209	0228	196	9	0490	197	9510	791
0.02210	0425	197	8	0687	197	9313	0.97790
211	0621	196	8	0883	196	9117	789
212	0818	197	8	1080	197	8920	788
213	1014	196	8	1276	196	8724	787
214	1210	196	7	1473	197	8527	786
215	1406	196	7	1669	196	8331	785
216	1602	196	7	1865	196	8135	784
217	1798	196	7	2061	196	7939	783
218	1994	196	6	2257	196	7743	782
219	2189	195	6	2453	196	7547	781
0.02220	2385	196	6	2649	196	7351	0.97780
221	2580	195	6	2845	196	7155	779
222	2776	196	5	3040	195	6960	778
223	2971	195	5	3236	196	6764	777
224	3166	195	5	3431	195	6569	776
225	8.543362	196	9.999735	8.543627	196	11.456373	775
226	3557	195	5	3822	195	6178	774
227	3752	195	4	4017	195	5983	773
228	3946	194	4	4212	195	5788	772
229	4141	195	4	4408	196	5593	771
0.02230	4336	195	4	4602	194	5398	0.97770
231	4531	195	3	4797	195	5203	769
232	4725	194	3	4992	195	5008	768
233	4920	195	3	5187	195	4813	767
234	5114	194	3	5381	194	4619	766
235	5308	194	2	5576	195	4424	765
236	5502	194	2	5770	194	4230	764
237	5697	195	2	5965	195	4035	763
238	5891	194	2	6159	194	3841	762
239	6084	193	1	6353	194	3647	761
0.02240	6278	194	1	6547	194	3453	0.97760
241	6472	194	1	6741	194	3259	759
242	6666	194	1	6935	194	3065	758
243	6859	193	0	7129	194	2871	757
244	7053	194	9.999730	7323	194	2677	756
245	7246	193	9.999730	7516	193	2484	755
246	7440	194	30	7710	194	2290	754
247	7633	193	9	7903	193	2097	753
248	7826	193	9	8097	194	1903	752
249	8019	193	9	8290	193	1710	751
0.02250	8.548212	193	9.999729	8.548483	193	11.451517	0.97750
Ar.	Log. Sin.	Dif.	Log. Cosin.	Log. Cot.	Dif.	Log. Tang	Ar.

G. 077.

0.028.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.02800	8.643138	155	9.999580	8.643588	155	11.356442	0.97200
801	3293	155	80	3713	156	6287	199
802	3448	155	9	3869	155	6132	198
803	3603	155	9	4024	155	5976	197
804	3758	155	9	4179	155	5821	196
805	3912	154	8	4334	155	5666	195
		155			155		
806	4067	155	8	4489	155	5511	194
807	4222	154	8	4644	155	5356	193
808	4376	155	7	4799	155	5201	192
809	4531	154	7	4954	154	5046	191
0.02810	4685	155	7	5108	155	4891	0.97190
		155			155		
811	4840	154	7	5263	155	4736	189
812	4994	154	6	5418	154	4581	188
813	5148	155	6	5572	155	4426	187
814	5303	154	6	5727	155	4271	186
815	5457	154	5	5882	154	4116	185
		154			154		
816	5611	154	5	6036	154	3961	184
817	5765	154	5	6190	155	3806	183
818	5919	154	4	6345	154	3651	182
819	6073	154	4	6499	154	3496	181
0.02820	6227	154	4	6653	154	3341	0.97180
		154			154		
821	6381	154	4	6807	155	3186	179
822	6535	153	3	6962	154	3031	178
823	6688	154	3	7116	154	2876	177
824	6842	154	3	7270	154	2721	176
825	8.646996	153	9.999572	8.647424	153	2566	175
		153			153		
826	7149	154	2	7577	154	2411	174
827	7303	153	2	7731	154	2256	173
828	7456	154	1	7885	154	2101	172
829	7610	153	1	8039	154	1946	171
0.02830	7763	154	1	8193	153	1791	0.9717
		154			153		
831	7917	153	0	8346	154	1636	16
832	8070	153	9.999570	8500	153	1481	16
833	8223	153	9.999570	8653	154	1326	16
834	8376	153	70	8807	153	1171	16
835	8529	154	9	8960	154	1016	16
		154			154		
836	8683	153	9	9114	153	861	16
837	8836	152	9	9267	153	706	16
838	8988	153	8	9420	153	551	16
839	9141	153	8	9573	153	396	16
0.02840	9294	153	8	9726	154	241	0.9716
		153			154		
841	9447	153	7	8.649880	153	86	15
842	9600	152	7	8.650033	153	31	15
843	9752	153	7	0186	153	156	15
844	8.649905	153	7	0339	152	301	15
845	8.650058	152	6	0491	153	446	15
		152			153		
846	0210	153	6	0644	153	591	15
847	0363	152	6	0797	153	736	15
848	0515	152	5	0950	152	881	15
849	0667	152	5	1102	153	1026	15
0.02850	8.650820	153	9.999565	8.651255	153	1171	0.9715
		153			153		
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.971.

0.028.

Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
8.650820	152	9.999565	8.651255	153	11.348745	0.97150
0972	152	4	1408	152	8592	149
1124	152	4	1560	153	8440	148
1276	152	4	1713	152	8288	147
1428	152	3	1865	152	8135	146
1580	152	3	2017	152	7983	145
1732	152	3	2170	153	7830	144
1884	152	3	2322	152	7678	143
2036	152	2	2474	152	7526	142
2188	152	2	2626	152	7374	141
2340	152	2	2778	152	7222	0.97140
2492	151	1	2930	152	7070	139
2643	152	1	3082	152	6918	138
2795	151	1	3234	152	6766	137
2946	152	0	3386	152	6614	136
3098	151	9.999560	3538	152	6462	135
3249	152	9.999560	3690	151	6310	134
3401	151	9	3841	152	6159	133
3552	151	9	3993	152	6007	132
3703	152	9	4145	151	5855	131
3855	151	9	4296	152	5704	0.97130
4006	151	8	4448	151	5552	129
4157	151	8	4599	152	5401	128
4308	151	8	4751	151	5250	127
4459	151	7	4902	151	5098	126
1.654610	151	9.999557	8.655053	151	11.344947	125
4761	151	7	5204	152	4706	124
4912	151	6	5356	151	4645	123
5063	151	6	5507	151	4493	122
5214	150	6	5658	151	4342	121
5364	151	5	5809	151	4191	0.97120
5515	151	5	5960	151	4040	119
5666	150	5	6111	151	3889	118
5816	151	5	6262	150	3739	117
5967	150	4	6412	151	3588	116
6117	150	4	6563	151	3437	115
6267	151	4	6714	151	3286	114
6418	150	3	6865	150	3136	113
6568	150	3	7015	151	2985	112
6718	151	3	7166	150	2834	111
6869	150	2	7316	151	2684	0.97110
7019	150	2	7467	150	2533	109
7169	150	2	7617	150	2383	108
7319	150	1	7767	150	2233	107
7469	150	1	7918	151	2082	106
7619	150	1	8068	150	1932	105
7769	150	1	8218	150	1782	104
7919	149	9.999550	8368	150	1632	103
8068	150	9.999550	8518	150	1482	102
8218	150	50	8668	150	1332	101
1.658368	150	9.999549	8.658818	150	11.341182	0.97100
Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.971.

0.024.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.02400	8.576228		9.999691	8.576537		11.423463	0.97600
401	6409	181	1	6718	181	3282	599
402	6590	181	1	6899	181	3101	598
403	6771	181	1	7080	181	2920	597
404	6951	180	0	7261	181	2739	596
405	7132	181	9.999690	7442	181	2558	595
406	7312	180	9.999690	7622	180	2378	594
407	7493	181	90	7803	181	2197	593
408	7673	180	9	7984	181	2017	592
409	7853	180	9	8164	180	1836	591
0.02410	8033	180	9	8345	181	1656	0.97590
411	8213	180	9	8525	180	1475	589
412	8393	180	8	8705	180	1295	588
413	8573	180	8	8885	180	1115	587
414	8753	180	8	9065	180	935	586
415	8933	180	7	9245	180	755	585
416	9113	180	7	9425	180	575	584
417	9292	179	7	9605	180	395	583
418	9472	180	7	9785	180	215	582
419	9651	179	6	8.579965	180	11.420035	581
0.02420	8.579831	180	6	8.580145	180	11.419856	0.97580
421	8.580010	179	6	0324	179	9676	579
422	0189	179	6	0504	180	9496	578
423	0368	179	5	0683	179	9317	577
424	0548	180	5	0862	179	9138	576
425	0727	179	9.999685	8.581042	180	11.418958	575
426	0906	179	5	1221	179	8779	574
427	1084	178	4	1400	179	8600	573
428	1263	179	4	1579	179	8421	572
429	1442	179	4	1758	179	8242	571
0.02430	1621	179	4	1937	179	8063	0.97570
431	1799	178	3	2116	179	7884	569
432	1978	179	3	2295	179	7705	568
433	2156	178	3	2474	179	7527	567
434	2335	179	3	2652	178	7348	566
435	2513	178	2	2831	179	7169	565
436	2691	178	2	3009	178	6991	564
437	2869	178	2	3188	179	6812	563
438	3047	178	2	3366	178	6634	562
439	3225	178	1	3544	178	6456	561
0.02440	3403	178	1	3722	178	6278	0.97560
441	3581	178	1	3901	179	6099	559
442	3759	178	0	4079	178	5921	558
443	3937	178	9.999680	4257	178	5743	557
444	4114	177	9.999680	4435	178	5566	556
445	4292	178	80	4612	177	5388	555
446	4470	178	9	4790	178	5210	554
447	4647	177	9	4968	178	5032	553
448	4824	177	9	5145	177	4855	552
449	5002	178	9	5323	178	4677	551
0.02450	8.585179	177	9.999678	8.585500	177	11.414500	0.97550
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.975.

0.024

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.02450	8.585179		9.999678	8.585500		11.414500	0.97550
451	5356	177	8	5678	178	4322	549
452	5533	177	8	5855	177	4145	548
453	5710	177	8	6032	177	3968	547
454	5887	177	7	6210	178	3790	546
455	6064	177	7	6387	177	3613	545
456	6241	177	7	6564	177	3436	544
457	6417	176	7	6741	177	3259	543
458	6594	177	6	6918	177	3082	542
459	6770	176	6	7095	177	2906	541
0.02460	6947	177	6	7271	176	2729	0.97540
461	7123	176	5	7448	177	2552	539
462	7300	177	5	7625	177	2376	538
463	7476	176	5	7801	176	2199	537
464	7652	176	5	7978	177	2023	536
465	7828	176	4	8154	176	1846	535
466	8004	176	4	8330	176	1670	534
467	8180	176	4	8507	177	1494	533
468	8356	176	4	8683	176	1317	532
469	8532	176	3	8859	176	1141	531
0.02470	8708	176	3	9035	176	0965	0.97530
471	8884	176	3	9211	176	0789	529
472	9059	175	3	9387	176	0613	528
473	9235	175	2	9563	175	0438	527
474	9410	175	2	9738	175	0262	526
475	9586	176	9.999672	8.589914	176	11.410086	525
476	9761	175	1	8.590090	176	11.409910	524
477	8.589936	175	1	0265	175	9735	523
478	8.590112	176	1	0441	176	9559	522
479	0287	175	1	0616	175	9384	521
0.02480	0462	175	0	0791	175	9209	0.97520
481	0637	175	9.999670	0967	176	9033	519
482	0812	175	9.999670	1142	175	8858	518
483	0987	175	70	1317	175	8683	517
484	1161	174	70	1492	175	8508	516
485	1336	175	9	1667	175	8333	515
486	1511	175	9	1842	175	8158	514
487	1685	174	9	2017	175	7983	513
488	1860	175	8	2191	174	7809	512
489	2034	174	8	2366	175	7634	511
0.02490	2209	175	8	2541	175	7459	0.97510
491	2383	174	8	2715	174	7285	509
492	2557	174	7	2890	175	7110	508
493	2731	174	7	3064	174	6936	507
494	2905	174	7	3239	175	6761	506
495	3079	174	7	3413	174	6587	505
496	3253	174	6	3588	174	6413	504
497	3427	174	6	3761	174	6239	503
498	3601	174	6	3935	174	6065	502
499	3775	174	5	4109	174	5891	501
0.02500	8.593948	173	9.999665	8.594283	174	11.405717	0.97500

Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0.975

0. 025.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.02500	8.593948		9.999665	8.594283		11.405717	0.97500
501	4122	174	5	4457	174	5543	499
502	4295	173	5	4631	174	5369	498
503	4469	174	4	4805	174	5195	497
504	4642	173	4	4978	173	5022	496
505	4816	174	4	5152	174	4848	495
506	4989	173	3	5325	173	4675	494
507	5162	173	3	5499	174	4501	493
508	5335	173	3	5672	173	4328	492
509	5508	173	3	5846	174	4155	491
0.02510	5681	173	2	6019	173	3981	0.97490
511	5854	173	2	6192	173	3808	489
512	6027	173	2	6365	173	3635	488
513	6200	173	2	6538	173	3462	487
514	6372	172	1	6711	173	3289	486
515	6545	173	1	6884	173	3116	485
516	6718	173	1	7057	173	2943	484
517	6890	172	1	7230	173	2771	483
518	7062	172	9.999660	7402	172	2598	482
519	7235	173	9.999660	7575	173	2425	481
0.02520	7407	172	60	7747	172	2253	0.97480
521	7579	172	9	7920	173	2080	479
522	7751	172	9	8092	172	1908	478
523	7923	172	9	8265	173	1735	477
524	8095	172	9	8437	172	1563	476
525	8.598267	172	9.999658	8.598609	172	11.401391	475
526	8439	172	8	8781	172	1219	474
527	8611	172	8	8953	172	1047	473
528	8783	172	8	9125	172	0875	472
529	8955	172	7	9297	172	0703	471
0.02530	9126	171	7	9469	172	0531	0.97470
531	9298	172	7	9641	172	0359	469
532	9469	171	6	9813	172	0187	468
533	9641	172	6	8.599984	171	11.400016	467
534	9812	171	6	8.600156	172	11.399844	466
535	8.599983	171	6	0328	172	9673	465
536	8.600154	171	5	0499	171	9501	464
537	0325	171	5	0670	172	9330	463
538	0496	171	5	0842	172	9158	462
539	0667	171	5	1013	171	8987	461
0.02540	0838	171	4	1184	171	8816	0.97460
541	1009	171	4	1355	171	8645	459
542	1180	171	4	1526	171	8474	458
543	1351	171	3	1697	171	8303	457
544	1521	170	3	1868	171	8132	456
545	1692	171	3	2039	171	7961	455
546	1863	171	3	2210	171	7790	454
547	2033	170	2	2381	171	7619	453
548	2203	170	2	2551	170	7449	452
549	2374	171	2	2722	171	7278	451
0.02550	8.602544	170	9.999652	8.602892	171	11.397108	0.97450

0. 974.

0.025.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.02550	8.602544	170	9.999652	8.602892	171	11.397108	0.97450
551	2714	170	1	3063	171	6937	449
552	2884	170	1	3233	170	6767	448
553	3054	170	1	3404	171	6596	447
554	3224	170	0	3574	170	6426	446
555	3394	170	9.999650	3744	170	6256	445
556	3564	170	9.999650	3914	170	6086	444
557	3734	170	50	4084	170	5916	443
558	3904	170	9	4254	170	5746	442
559	4073	169	9	4424	170	5576	441
0.02560	4243	170	9	4594	170	5406	0.97440
561	4412	169	9	4764	170	5236	439
562	4582	170	8	4934	170	5067	438
563	4751	169	8	5103	169	4897	437
564	4921	170	8	5273	170	4727	436
565	5090	169	7	5442	169	4558	435
566	5259	169	7	5612	170	4388	434
567	5428	169	7	5781	169	4219	433
568	5597	169	7	5951	170	4050	432
569	5766	169	6	6120	169	3880	431
0.02570	5935	169	6	6289	169	3711	0.97430
571	6104	169	6	6458	169	3542	429
572	6273	168	6	6627	169	3373	428
573	6441	168	5	6796	169	3204	427
574	6610	169	5	6965	169	3035	426
575	8.606779	168	9.999645	8.607134	169	11.392866	425
576	6947	169	4	7303	169	2697	424
577	7116	168	4	7472	168	2528	423
578	7284	168	4	7640	169	2360	422
579	7452	169	4	7809	168	2191	421
0.02580	7621	168	3	7977	169	2023	0.97420
581	7789	168	3	8146	168	1854	419
582	7957	168	3	8314	169	1686	418
583	8125	168	2	8483	168	1517	417
584	8293	168	2	8651	168	1349	416
585	8461	168	2	8819	168	1181	415
586	8629	168	2	8987	169	1013	414
587	8797	168	1	9156	168	845	413
588	8965	168	1	9324	167	677	412
589	9132	168	1	9491	167	509	411
0.02590	9300	167	1	9659	168	341	0.97410
591	9467	168	9.999640	9827	168	0173	409
592	9635	167	9.999640	8.609995	168	11.390005	408
593	9802	168	40	8.610163	167	11.389837	407
594	8.609970	167	9	0330	167	9670	406
595	8.610137	167	9	0498	168	9502	405
596	0304	167	9	0665	167	9335	404
597	0471	168	9	0833	168	9167	403
598	0639	168	8	1000	167	9000	402
599	0806	167	8	1168	168	8832	401
0.02600	8.610973	167	9.999638	8.611335	167	11.388665	0.97400
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.026.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.02600	8.610973	166	9.999638	8.611335	167	11.388665	0.97400
601	1139	167	7	1502	167	8498	399
602	1306	167	7	1669	167	8331	398
603	1473	167	7	1836	167	8164	397
604	1640	167	7	2003	167	7997	396
605	1806	166	6	2170	167	7830	395
606	1973	167	6	2337	167	7663	394
607	2140	166	6	2504	167	7496	393
608	2306	166	6	2671	166	7330	392
609	2472	167	5	2837	166	7163	391
0.02610	2639	166	5	3004	167	6996	0.97390
611	2805	166	5	3170	166	6830	389
612	2971	166	4	3337	166	6663	388
613	3137	166	4	3503	167	6497	387
614	3303	166	4	3670	166	6330	386
615	3469	166	4	3836	166	6164	385
616	3635	166	3	4002	166	5998	384
617	3801	166	3	4168	166	5832	383
618	3967	166	3	4334	167	5666	382
619	4133	166	2	4501	166	5500	381
0.02620	4299	165	2	4667	165	5334	0.97380
621	4464	166	2	4832	166	5168	379
622	4630	165	2	4998	166	5002	378
623	4795	166	1	5164	166	4836	377
624	4961	165	1	5330	165	4670	376
625	8.615126	165	1	8.615495	166	11.384505	375
626	5291	166	0	5661	166	4339	374
627	5457	165	9.999630	5827	165	4173	373
628	5622	165	9.999630	5992	165	4008	372
629	5787	165	30	6157	166	3843	371
0.02630	5952	165	9	6323	165	3677	0.97370
631	6117	165	9	6488	165	3512	369
632	6282	165	9	6653	166	3347	368
633	6447	165	8	6819	165	3182	367
634	6612	165	8	6984	165	3016	366
635	6777	164	8	7149	165	2851	365
636	6941	165	8	7314	165	2686	364
637	7106	164	7	7479	164	2522	363
638	7270	165	7	7643	165	2357	362
639	7435	164	7	7808	165	2192	361
0.02640	7599	165	7	7973	165	2027	0.97360
641	7764	164	6	8138	164	1863	359
642	7928	164	6	8302	165	1698	358
643	8092	165	6	8467	164	1533	357
644	8257	164	5	8631	165	1369	356
645	8421	164	5	8796	164	1205	355
646	8585	164	5	8960	164	1040	354
647	8749	164	5	9124	164	876	353
648	8913	164	4	9288	165	712	352
649	9077	163	4	9453	164	547	351
0.02650	8.619240	163	9.999624	8.619517	164	11.380383	0.97350
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.973.

0.026.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.02650	8.619240	164	9.999624	8.619617	164	11.380383	0.97350
651	9404	164	3	9781	164	0219	349
652	9568	164	3	8.619945	164	11.380055	348
653	9731	163	3	8.620109	164	11.379891	347
654	8.619805	164	3	0273	164	9728	346
655	8.620059	164	2	0436	163	9564	345
656	0222	163	2	0600	164	9400	344
657	0385	163	2	0764	164	9236	343
658	0549	164	1	0927	163	9073	342
659	0712	163	1	1091	164	8909	341
0.02660	0875	163	1	1254	163	8746	0.97340
661	1038	163	1	1418	164	8582	339
662	1201	163	9.999620	1581	163	8419	338
663	1364	163	9.999620	1745	164	8256	337
664	1527	163	20	1908	163	8092	336
665	1690	163	9	2071	163	7929	335
666	1853	163	9	2234	163	7766	334
667	2016	163	9	2397	163	7603	333
668	2179	162	9	2560	163	7440	332
669	2341	163	8	2723	163	7277	331
0.02670	2504	162	8	2886	163	7114	0.97330
671	2666	163	8	3049	163	6951	329
672	2829	162	7	3212	162	6789	328
673	2991	163	7	3374	163	6626	327
674	3154	162	7	3537	162	6463	326
675	8.623316	162	9.999617	8.623699	162	11.376301	325
676	3478	162	6	3862	162	6138	324
677	3640	162	6	4024	163	5976	323
678	3802	162	6	4187	162	5813	322
679	3964	162	5	4349	162	5651	321
0.02680	4126	162	5	4511	162	5489	0.97320
681	4288	162	5	4674	162	5327	319
682	4450	162	5	4836	162	5164	318
683	4612	162	4	4998	162	5002	317
684	4774	161	4	5160	162	4840	316
685	4935	162	4	5322	162	4678	315
686	5097	162	3	5484	162	4516	314
687	5259	161	3	5646	161	4355	313
688	5420	162	3	5807	162	4193	312
689	5582	161	3	5969	162	4031	311
0.02690	5743	161	2	6131	161	3869	0.97310
691	5904	162	2	6292	162	3708	309
692	6066	161	2	6454	161	3546	308
693	6227	161	1	6615	161	3385	307
694	6388	161	1	6777	161	3223	306
695	6549	161	1	6938	161	3062	305
696	6710	161	0	7100	161	2901	304
697	6871	161	9.999610	7261	161	2739	303
698	7032	161	9.999610	7422	161	2578	302
699	7193	161	10	7583	161	2417	301
0.02700	8.627353	160	9.999609	8.627744	161	11.372256	0.97300
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.973.

0.050.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar
0.0500	8.894643	866	9.998659	5	8.895984	872	11.104016	0.95
01	5500	864	54	6	6856	860	3145	0.94
02	6373	863	48	5	7725	868	2275	
03	7236	861	43	5	8593	866	1407	
04	8097	859	38	5	8.899459	865	11.100541	
05	8956	857	32	5	8.900324	862	11.099677	
06	8.899813	856	27	6	1186	861	8814	
07	8.900669	854	21	5	2047	860	7953	
08	1523	852	16	6	2907	858	7093	
09	2375	850	10	5	3765	856	6236	
0.0510	3225	849	9.998605	6	4621	854	5380	0.94
11	4074	848	9.998599	5	5475	853	4525	
12	4922	845	94	6	6328	851	3672	
13	5767	844	88	5	7179	849	2821	
14	6611	842	83	6	8028	848	1972	
15	7453	841	77	5	8876	846	1124	
16	8294	839	72	6	8.909722	845	11.090278	
17	9133	837	66	5	8.910567	843	11.089433	
18	8.909970	836	61	6	1410	841	8590	
19	8.910806	834	55	5	2251	840	7749	
0.0520	1640	833	50	6	3091	838	6909	0.94
21	2473	831	44	6	3929	836	6071	
22	3304	829	38	5	4765	835	5235	
23	4133	828	33	6	5600	834	4400	
24	4961	826	27	5	6434	831	3567	
25	5787	824	22	6	7265	831	2735	
26	6611	823	16	6	8096	828	1905	
27	7434	822	10	5	8924	827	1076	
28	8256	820	9.998505	6	8.919751	826	11.080249	
29	9076	818	9.998499	6	8.920577	824	11.079423	
0.0530	8.919894	817	93	5	1401	822	8599	0.94
31	8.920711	815	88	6	2223	821	7777	
32	1526	814	82	6	3044	820	6956	
33	2340	812	76	6	3864	817	6137	
34	3152	810	70	5	4681	817	5319	
35	3962	809	65	6	5498	815	4502	
36	4771	808	59	6	6313	813	3687	
37	5579	806	53	6	7126	812	2874	
38	6385	805	47	6	7938	810	2062	
39	7190	803	42	5	8748	809	1252	
0.0540	7993	801	36	6	8.929557	807	11.070443	0.94
41	8794	800	30	6	8.930364	806	11.069636	
42	8.929594	799	24	6	1170	805	8830	
43	8.930393	797	18	6	1975	803	8025	
44	1190	796	13	5	2778	801	7222	
45	1986	794	07	6	3579	800	6421	
46	2780	793	9.998401	6	4379	799	5621	
47	3573	791	9.998395	6	5178	797	4822	
48	4364	790	89	6	5975	796	4025	
49	5154	788	83	6	6771	794	3229	
0.0550	8.935942	788	9.998377	6	8.937565	794	11.062435	0.94

0.945.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Ar
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0. 027.

0.02750	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	0.97250
	8.635318	157	9.999595	8.635723	158	11.364277	0.97250
751	5475	158	4	5881	158	4119	249
752	5633	158	4	6039	158	3961	248
753	5791	157	4	6197	158	3803	247
754	5948	158	4	6355	158	3645	246
755	6106	157	3	6513	158	3487	245
756	6263	158	3	6671	157	3330	244
757	6421	157	3	6828	158	3172	243
758	6578	158	2	6986	158	3014	242
759	6736	157	2	7144	157	2856	241
0.02760	6893	157	2	7301	157	2699	0.97240
761	7050	157	1	7459	158	2541	239
762	7207	157	1	7616	157	2384	238
763	7364	158	1	7774	158	2226	237
764	7522	157	1	7931	157	2069	236
765	7679	156	0	8088	157	1912	235
766	7835	157	9.999590	8246	157	1755	234
767	7992	157	9.999590	8403	157	1597	233
768	8149	157	9	8560	157	1440	232
769	8306	157	9	8717	157	1283	231
0.02770	8463	156	9	8874	157	1126	0.97230
771	8619	157	9	9031	157	969	229
772	8776	156	8	9188	157	812	228
773	8932	157	8	9345	156	656	227
774	9089	156	8	9501	157	499	226
775	9245	157	9.999587	9658	157	342	225
776	9402	156	7	9815	156	185	224
777	9558	156	7	8.639971	157	11.360029	223
778	9714	157	6	8.640128	156	11.359872	222
779	8.639871	156	6	0284	157	9716	221
0.02780	8.640027	156	6	0441	156	9559	0.97220
781	0183	156	6	0597	157	9403	219
782	0339	156	5	0754	156	9246	218
783	0495	156	5	0910	156	9090	217
784	0651	156	5	1066	156	8934	216
785	0807	155	4	1222	156	8778	215
786	0962	156	4	1378	156	8622	214
787	1118	156	4	1534	156	8466	213
788	1274	156	3	1690	156	8310	212
789	1430	155	3	1846	156	8154	211
0.02790	1585	156	3	2002	156	7998	0.97210
791	1741	155	3	2158	156	7842	209
792	1896	156	2	2314	156	7686	208
793	2052	155	2	2470	155	7530	207
794	2207	155	2	2625	156	7375	206
795	2362	155	1	2781	155	7219	205
796	2517	156	1	2936	156	7064	204
797	2673	155	1	3092	155	6908	203
798	2828	155	0	3247	156	6753	202
799	2983	155	9.999580	3403	155	6597	201
0.02800	8.643138	155	9.999580	8.643558	155	11.356442	0.97200
Acc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Acc.

0. 972.

0.060.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.0600	8.973628	721	9.998068	6	8.975560	727	11.024440	0.940
01	4349	720	62	7	6287	727	3713	0.930
02	5069	719	55	6	7014	725	2986	
03	5788	717	49	7	7739	724	2261	
04	6505	716	42	6	8463	722	1537	
05	7221	715	36	7	9185	722	0815	
06	7936	714	29	6	8.99907	720	11.020093	
07	8650	713	23	7	8.980627	720	11.019373	
08	8.979363	712	16	6	1347	718	8653	
09	8.980075	710	10	7	2065	717	7935	
0.0610	0785	709	9.998003	6	2782	715	7218	0.930
11	1494	708	9.997997	7	3497	715	6503	
12	2202	707	90	6	4212	714	5788	
13	2909	706	84	7	4926	712	5075	
14	3615	704	77	7	5638	711	4362	
15	4319	704	70	6	6349	710	3651	
16	5023	702	64	7	7059	709	2941	
17	5725	701	57	6	7768	708	2232	
18	6426	700	51	7	8476	706	1524	
19	7126	699	44	7	9182	706	0818	
0.0620	7825	698	37	6	8.989888	704	11.010112	0.93
21	8523	696	31	7	8.990592	703	11.009408	
22	9219	696	24	7	1295	702	8705	
23	8.989915	694	17	7	1997	701	8003	
24	8.990609	693	10	6	2698	700	7302	
25	1302	692	9.997904	7	3398	699	6602	
26	1994	691	9.997897	7	4097	698	5903	
27	2685	690	90	6	4795	696	5205	
28	3375	689	84	7	5491	696	4509	
29	4064	687	77	7	6187	694	3813	
0.0630	4751	687	70	7	6881	694	3119	0.93
31	5438	685	63	7	7575	692	2425	
32	6123	685	56	6	8267	691	1733	
33	6808	683	50	7	8958	690	1042	
34	7491	682	43	7	8.999648	689	11.000352	
35	8173	681	36	7	9.000337	688	10.999663	
36	8854	680	29	7	1025	687	8975	
37	8.999534	679	22	7	1712	686	8288	
38	9.000213	678	15	6	2398	685	7602	
39	0891	677	09	7	3083	683	6917	
0.0640	1568	676	9.997802	7	3766	683	6234	0.93
41	2244	675	9.997795	7	4449	682	5551	
42	2919	673	88	7	5131	680	4869	
43	3592	673	81	7	5811	680	4189	
44	4265	671	74	7	6491	678	3509	
45	4936	671	67	7	7169	678	2831	
46	5607	669	60	7	7847	676	2153	
47	6276	669	53	7	8523	675	1477	
48	6945	667	46	7	9198	675	0802	
49	7612	666	39	7	9.009873	673	10.990127	
0.0650	9.008278	666	9.997732	7	9.010546	673	10.989454	0.9
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	A

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Are.
9.008278	666	9.997732	7	9.010546	672	10.989454	0.9350
8944	664	25	7	1218	672	8782	49
9.009608	663	18	7	1890	670	8110	48
9.010271	663	11	7	2560	669	7440	47
0934	661	9.997704	7	3229	668	6771	46
1.95	660	9.997697	7	3897	668	6103	45
2255	659	90	7	4565	666	5435	44
2914	658	83	7	5231	665	4769	43
3572	657	76	7	5896	664	4104	42
4229	657	69	7	6560	664	3440	41
4886	655	62	7	7224	662	2776	0.9340
5541	654	55	7	7886	661	2114	39
6195	653	48	7	8547	661	1453	38
6848	652	41	8	9208	659	0793	37
7500	651	33	7	9.019867	658	10.980133	36
8151	651	26	7	9.020525	658	10.979475	35
8802	649	19	7	1183	656	8818	34
9.019451	648	12	7	1839	655	8161	33
9.020099	647	9.997605	7	2494	655	7506	32
0740	647	9.997598	8	3149	653	6851	31
1393	645	90	7	3802	653	6198	0.9330
2038	644	83	7	4455	651	5545	29
2682	644	76	7	5106	651	4894	28
3326	642	69	7	5757	650	4243	27
3968	642	62	8	6407	648	3593	26
4610	640	54	7	7055	648	2945	25
5250	640	47	7	7703	647	2297	24
5890	638	40	8	8350	646	1650	23
6528	638	32	7	8996	645	1004	22
7166	637	25	7	9.029641	644	10.970359	21
7803	635	18	7	9.030285	643	10.969715	0.9320
8438	635	11	8	0928	642	9072	19
9073	634	9.997503	7	1570	641	8430	18
9.029707	633	9.997496	8	2211	641	7789	17
9.030340	632	88	7	2852	639	7148	16
0972	631	81	7	3491	639	6509	15
1603	630	74	8	4130	637	5871	14
2233	630	66	7	4767	637	5233	13
2863	628	59	7	5404	635	4596	12
3491	627	52	8	6039	635	3961	11
4118	627	44	7	6674	634	3326	0.9310
4745	625	37	8	7308	633	2692	09
5370	625	29	7	7941	632	2059	08
5995	624	22	8	8573	632	1427	07
6619	623	14	7	9205	630	0796	06
7242	622	9.997407	8	9.039835	629	10.960165	05
7864	621	9.997399	7	9.040464	629	10.959536	04
8485	620	92	8	1093	628	8907	03
9105	619	84	7	1721	626	8280	02
9.039724	618	77	8	2347	626	7653	01
9.040342		9.997369	8	9.042973		10.957027	0.9300
Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Are.

0.070.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.0700	9.040342	618	9.997369	7	9.042973	625	10.957027	0.930
01	0960	617	62	8	3598	624	6402	0.92
02	1577	615	54	7	4222	624	5778	
03	2192	615	47	8	4846	622	5155	
04	2807	614	39	7	5468	621	4532	
05	3421	613	32	8	6089	621	3911	
06	4034	612	24	8	6710	620	3290	
07	4646	612	16	7	7330	619	2670	
08	5258	610	09	8	7949	618	2051	
09	5868	610	9.997301	8	8567	617	1433	
0.0710	6478	608	9.997294	7	9184	616	0816	0.92
11	7086	608	86	8	9.049800	616	10.950200	
12	7694	607	78	7	9.050416	615	10.949584	
13	8301	606	71	8	1031	613	8969	
14	8907	606	63	8	1644	613	8356	
15	9.049513	604	55	8	2257	613	7743	
16	9.050117	604	47	7	2870	611	7131	
17	0721	602	40	8	3481	610	6519	
18	1323	602	32	8	4091	610	5909	
19	1925	601	24	7	4701	609	5299	
0.0720	2526	600	17	8	5310	608	4690	0.92
21	3126	600	09	8	5918	607	4082	
22	3726	598	9.997201	8	6525	606	3475	
23	4324	598	9.997193	8	7131	605	2869	
24	4922	597	85	7	7736	605	2264	
25	5519	596	78	8	8341	604	1659	
26	6115	595	70	8	8945	603	1053	
27	6710	594	62	8	9.059548	602	10.940452	
28	7304	594	54	8	9.060150	602	10.939850	
29	7898	593	46	8	0752	600	9249	
0.0730	8491	593	39	7	1352	600	8648	0.92
31	9083	592	31	8	1952	600	8048	
32	9.059674	591	23	8	2551	599	7449	
33	9.060264	590	15	8	3149	598	6851	
34	0853	589	9.997107	8	3746	597	6254	
35	1442	588	9.997099	8	4343	597	5657	
36	2030	587	01	8	4939	596	5061	
37	2617	586	83	8	5534	595	4466	
38	3203	586	75	8	6128	594	3872	
39	3789	584	67	8	6721	593	3279	
0.0740	4373	584	59	8	7314	592	2686	0.92
41	4957	583	51	8	7906	591	2094	
42	5540	582	43	8	8497	590	1503	
43	6122	582	35	8	9087	589	0913	
44	6704	580	27	8	9.069676	589	10.930324	
45	7284	580	19	8	9.070265	588	10.929735	
46	7864	579	11	8	0853	587	9147	
47	8443	579	9.997003	8	1440	586	8560	
48	9022	577	9.996995	8	2026	586	7974	
49	9.069599	577	87	8	2612	585	7388	
0.0750	9.070176	577	9.996979	8	9.073197	585	10.926803	0.92

0.025.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0. 029.

Arc.	Log. Sin.	Dif.	Log. Cosin.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.02950	8.665787	147	9.999534	8.666253	147	11.333747	0.97050
951	5934	147	3	6400	148	3600	049
952	6081	147	3	6548	147	3452	048
953	6228	147	3	6695	147	3305	047
954	6375	146	2	6842	147	3158	046
955	6521	147	2	6989	148	3011	045
956	6668	147	2	7137	147	2863	044
957	6815	147	1	7284	147	2716	043
958	6962	147	1	7431	147	2569	042
959	7109	146	1	7578	147	2422	041
0.02960	7255	146	0	7725	147	2275	0.97040
961	7402	147	9.999530	7872	147	2128	039
962	7548	146	9.999530	8019	147	1982	038
963	7695	147	9	8165	146	1835	037
964	7841	146	9	8312	147	1688	036
965	7988	147	9	8459	147	1541	035
966	8134	146	9	8605	146	1395	034
967	8280	146	8	8752	147	1248	033
968	8426	146	8	8899	147	1101	032
969	8573	147	8	9045	146	955	031
0.02970	8719	146	7	9192	147	808	0.97030
971	8865	146	7	9338	146	662	029
972	9011	146	7	9484	146	516	028
973	9157	146	6	9631	147	369	027
974	9303	146	6	9777	146	223	026
975	9449	146	9.999526	8.669923	146	11.330077	025
976	9595	146	5	8.670069	146	11.329931	024
977	9740	145	5	0215	146	9785	023
978	8.609886	146	5	0362	147	9639	022
979	8.670032	146	4	0508	146	9493	021
0.02980	0178	146	4	0654	146	9347	0.97020
981	0323	145	4	0799	145	9201	019
982	0469	146	3	0945	146	9055	018
983	0614	145	3	1091	146	8909	017
984	0760	146	3	1237	146	8763	016
985	0905	145	2	1383	146	8617	015
986	1050	145	2	1528	145	8472	014
987	1196	146	2	1674	146	8326	013
988	1341	145	2	1820	146	8181	012
989	1486	145	1	1965	145	8035	011
0.02990	1631	145	1	2111	146	7889	0.97010
991	1777	146	1	2256	145	7744	009
992	1922	145	9.999520	2401	145	7599	008
993	2067	145	9.999520	2547	146	7453	007
994	2212	145	20	2692	145	7308	006
995	2357	145	19	2837	145	7163	005
996	2501	144	19	2983	146	7018	004
997	2646	145	19	3128	145	6872	003
998	2791	145	18	3273	145	6727	002
0.02999	2936	145	18	3418	145	6582	001
0.03000	8.673080	144	9.999518	8.673563	145	11.326437	0.97000
Arc.	Log. Cosin.	Dif.	Log. Sin.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.080.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
0.0800	9.098066	540	9.996562	9	9.101504	549	10.898496
01	8606	539	53	9	2053	547	7947
02	9145	538	45	9	2600	547	7400
03	9.099683	538	36	9	3147	547	6853
04	9.100221	537	27	9	3694	545	6307
05	0758	536	19	9	4239	545	5761
06	1294	536	10	9	4784	544	5216
07	1830	535	9.996501	8	5328	544	4672
08	2365	534	9.996493	9	5872	543	4128
09	2899	534	84	9	6415	542	3585
0.0810	3433	532	75	9	6957	542	3043
11	3965	533	66	8	7499	541	2501
12	4498	531	58	9	8040	540	1960
13	5029	531	49	9	8580	540	1420
14	5560	531	40	9	9120	539	0880
15	6091	529	31	9	9.109659	539	10.890341
16	6620	529	23	9	9.110198	537	10.889802
17	7149	529	14	9	0735	538	9265
18	7678	527	9.996405	9	1273	536	8728
19	8205	527	9.996396	9	1809	536	8191
0.0820	8732	527	87	8	2345	535	7655
21	9259	525	79	9	2880	535	7120
22	9.109784	525	70	9	3415	534	6585
23	9.110309	525	61	9	3949	533	6051
24	0834	524	52	9	4482	533	5518
25	1358	523	43	9	5015	532	4986
26	1881	522	34	9	5547	531	4453
27	2403	522	25	9	6078	531	3922
28	2925	521	16	9	6609	530	3391
29	3446	521	9.996307	9	7139	530	2861
0.0830	3967	520	9.996298	9	7669	528	2332
31	4487	519	90	9	8197	529	1803
32	5006	519	81	9	8726	527	1274
33	5525	518	72	9	9253	527	0747
34	6043	517	63	9	9.119780	527	10.880220
35	6560	517	54	9	9.120307	526	10.879693
36	7077	516	45	9	0833	525	9167
37	7593	516	36	9	1358	525	8642
38	8109	515	27	9	1883	523	8118
39	8624	514	18	9	2406	524	7594
0.0840	9138	514	9.996208	10	2930	523	7070
41	9.119652	513	9.996199	9	3453	522	6547
42	9.120165	513	90	9	3975	521	6025
43	0678	511	81	9	4496	521	5504
44	1189	512	72	9	5017	521	4983
45	1701	510	63	9	5538	519	4462
46	2211	510	54	9	6057	520	3943
47	2721	510	45	9	6577	518	3424
48	3231	509	36	9	7095	518	2905
49	3740	508	27	9	7613	517	2387
0.0850	9.124248	508	9.996117	10	9.128130	517	10.871870

0.015.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.
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0.085.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
9.124248	507	9.996117	9	9.128130	517	10.871870	0.9150
4755	507	9.996108	9	8647	516	1353	49
5262	507	9.996099	9	9163	516	0837	48
5769	505	90	9	9.129679	515	10.870321	47
6274	506	81	10	9.130194	514	10.869806	46
6780	504	71	9	0708	514	9292	45
7284	504	62	9	1222	513	8778	44
7788	504	53	9	1735	513	8265	43
8292	502	44	9	2248	512	7752	42
8794	503	35	10	2760	511	7240	41
9297	501	25	9	3271	511	6729	0.9149
9.129798	501	16	9	3782	511	6218	39
9.130299	501	9.996007	10	4293	509	5707	38
0800	500	9.995997	9	4802	510	5198	37
1300	499	88	9	5312	508	4688	36
1799	499	79	10	5820	508	4180	35
2298	498	69	9	6328	508	3672	34
2796	497	60	9	6836	507	3164	33
3293	497	51	9	7343	506	2658	32
3790	497	41	10	7849	506	2151	31
4287	495	32	9	8355	505	1645	0.9130
4782	496	23	9	8860	504	1140	29
5278	494	13	10	9364	504	0636	28
5772	494	9.995904	10	9.139868	504	10.860132	27
6266	494	9.995894	9	9.140372	503	10.859628	26
9.136760	493	85	10	0875	502	9125	25
7253	492	75	9	1377	502	8623	24
7745	492	66	9	1879	501	8121	23
8237	491	57	9	2380	501	7620	22
8728	491	47	10	2881	500	7119	21
9219	490	38	9	3381	500	6619	0.9120
9.139709	489	28	9	3881	499	6119	19
9.140198	489	19	10	4380	498	5620	18
0687	489	9.995809	9	4878	498	5122	17
1176	487	9.995800	9	5376	498	4624	16
1663	488	90	10	5874	496	4127	15
2151	486	80	9	6370	497	3630	14
2637	487	71	9	6867	495	3133	13
3124	485	61	10	7362	496	2638	12
3609	485	52	9	7858	494	2143	11
4094	485	42	10	8352	494	1648	0.9110
4579	484	33	9	8846	494	1154	09
5063	483	23	10	9340	493	0660	08
5546	483	13	10	9.149833	492	10.850167	07
6029	482	9.995704	9	9.150325	492	10.849675	06
6511	482	9.995694	10	0817	492	9183	05
6993	481	84	9	1309	491	8691	04
7474	481	75	9	1800	490	8200	03
7955	480	65	10	2290	490	7710	02
8435	480	55	10	2780	490	7220	01
9.148915	480	9.995646	9	9.153269	489	10.846731	0.9100

Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0.910.

0.900.

c.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
900	9.148915		9.995646		9.153269		10.846731	0.9101
01	9394	479	36	10	3758	489	624	0.9099
02	9.1498-2	478	26	10	4246	488	575	9
03	9.150350	478	16	10	4734	487	526	9
04	0828	477	9.995607	9	5221	487	477	9
05	1305	476	9.995597	10	5708	486	429	9
06	1-81	476	87	10	6194	486	380	9
07	225-	475	77	10	6680	485	332	9
08	2-32	475	68	9	7165	484	283	9
09	320-	474	58	10	7649	484	235	9
0.0910	3681	474	48	10	8133	484	186	0.9099
11	4155	473	38	10	8617	483	138	8
12	4628	473	28	10	9100	483	090	8
13	5101	472	18	10	9.159583	482	10.84041	8
14	5573	472	9.995509	9	9.160065	481	10.83993	8
15	6045	471	9.995499	10	0546	481	94	85
16	6516	470	89	10	1027	480	89	84
17	6986	470	79	10	1507	480	84	83
18	7456	470	69	10	1987	480	80	82
19	7926	469	59	10	2467	479	75	81
0.0920	8395	469	49	10	2946	478	70	0.9080
21	8864	468	39	10	3424	478	65	79
22	9332	467	29	10	3902	478	60	78
23	9.159799	467	19	10	4380	477	56	77
24	9.160266	466	9.995409	10	4857	477	51	76
25	0732	466	9.995399	10	9.165333	476	10.834667	75
26	1198	466	89	10	5809	475	41	74
27	1664	465	79	10	6284	475	37	73
28	2129	464	69	10	6759	475	32	72
29	2593	464	59	10	7234	474	27	71
0.0930	3057	463	49	10	7708	473	2292	0.9070
31	3520	463	39	10	8181	473	18	6
32	3983	463	29	10	8654	473	13	6
33	4446	462	19	10	9127	472	08	6
34	4908	461	9.995309	10	9.169599	471	10.830402	
35	5369	461	9.995299	10	9.170070	471	10.829930	
36	5830	460	89	10	0541	471	94	
37	6290	460	79	10	1012	470	89	
38	6750	460	69	10	1482	469	83	
39	7210	459	59	10	1951	469	80	
0.0940	7669	458	49	11	2420	469	75	0.90
41	812-	458	38	10	2889	468	71	
42	8585	457	28	10	3357	467	66	
43	9042	457	18	10	3824	467	61	
44	9499	457	9.995208	10	4291	467	57	
45	9.160976	456	9.995198	11	4758	466	52	
46	9.170412	455	8-	10	5224	466	47	
47	0867	455	77	10	5690	465	43	
48	1322	455	67	10	6155	465	38	
49	1777	454	57	10	6620	464	33	
0.0950	9.172231	454	9.995146	11	9.177084	464	10.822916	
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	

0.905.

0. 055.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
00550	8.935942	787	9.998377	6	8.937565	793	11.062435	0.9450
51	6729	786	71	6	8358	791	1612	49
52	7515	784	65	6	9149	790	0851	48
53	8209	782	59	5	8.939939	789	11.060061	47
54	9081	782	54	6	8.940728	787	11.059272	46
55	8.939863	779	48	6	1515	786	8485	45
56	8.940642	779	42	6	2301	784	7699	44
57	1421	779	36	6	3085	783	6913	43
58	2198	777	30	6	3868	782	6132	42
59	2974	776	24	6	4650	780	5350	41
00560	3748	774	18	6	5430	779	4570	0.9440
61	4521	773	12	6	6209	777	3791	39
62	5292	771	9.998306	6	6986	777	3014	38
63	6062	770	9.998300	7	7763	774	2238	37
64	6831	769	293	7	8537	774	1463	36
65	7598	767	87	6	8.949311	774	11.050689	35
66	8364	766	81	6	8.950083	772	11.049917	34
67	9129	765	75	6	0853	770	9147	33
68	8.949892	763	69	6	1623	768	8377	32
69	8.950654	762	63	6	2391	766	7609	31
00570	1414	760	57	6	3157	766	6843	0.9430
71	2174	757	51	6	3923	764	6077	29
72	2931	757	45	6	4687	763	5313	28
73	3688	755	39	7	5450	761	4551	27
74	4443	754	32	7	6211	760	3789	26
75	5197	753	26	6	6971	759	3029	25
76	5950	751	20	6	7730	757	2270	24
77	6701	750	14	6	8487	756	1513	23
78	7451	750	08	6	9243	755	0757	22
79	8200	749	9.998201	7	8.959998	754	11.040002	21
00580	8947	747	9.998195	6	8.960752	754	11.039248	0.9420
81	8.959693	746	89	6	1504	752	8496	19
82	8.960438	745	83	6	2255	751	7745	18
83	1181	743	76	7	3005	750	6995	17
84	1923	742	70	6	3753	748	6247	16
85	2664	741	64	6	4501	748	5499	15
86	3404	740	58	6	5247	746	4754	14
87	4142	738	51	7	5991	744	4009	13
88	4880	738	45	6	6735	744	3265	12
89	5615	735	39	6	7477	742	2523	11
00590	6350	735	32	7	8218	741	1782	0.9410
91	7083	733	26	6	8958	740	1043	09
92	7816	733	20	6	8.969696	738	11.036304	08
93	8546	730	13	7	8.970433	737	11.029567	07
94	8.969276	730	07	6	1169	736	8831	06
95	8.970004	728	9.998100	7	1904	735	8096	05
96	0732	728	9.998094	6	2638	734	7363	04
97	1458	726	88	6	3370	732	6630	03
98	2182	724	81	7	4101	731	5899	02
00599	2906	724	75	6	4831	730	5169	01
00600	8.973628	722	9.998068	7	8.975560	729	11.024440	0.9400

0. 040.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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O. 100.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.1000	9.194332		9.994620		9.199713		10.800288	0.9000
01	4763	431	9.994609	11	9.200154	441	10.799846	0.8999
02	5193	430	9.994598	11	0595	441	9405	98
03	5623	430	88	10	1035	440	8965	97
04	6052	429	77	11	1475	440	8525	96
05	6481	429	66	11	1915	440	8085	95
		428		11		439		
06	6909	428	55	11	2354	439	7646	94
07	7337	427	44	11	2793	438	7207	93
08	7764	427	33	11	3231	438	6766	92
09	8191	427	22	11	3669	438	6331	91
0.1010	8618	427	11	11	4107	438	5894	0.8990
		426		11		437		
11	9044	426	9.994500	10	4544	436	5456	89
12	9470	425	9.994490	11	4980	437	5020	88
13	9.199895	425	79	11	5417	435	4584	87
14	9.200320	424	68	11	5852	436	4148	86
15	0744	424	57	11	6288	435	3712	85
		424		11		435		
16	1168	424	46	11	6723	434	3277	84
17	1592	423	35	11	7157	435	2841	83
18	2015	423	24	11	7592	433	2405	82
19	2438	422	13	11	8025	434	1970	81
0.1020	2860	422	9.994402	11	8459	433	1534	0.8980
		422		11		433		
21	3282	422	9.994391	11	8892	432	1108	79
22	3704	421	80	11	9324	432	0676	78
23	4125	421	69	12	9.209756	432	10.790244	77
24	4546	420	57	11	9.210188	431	10.789811	76
25	9.204966	420	46	11	0619	431	9381	75
		420		11		431		
26	5386	419	35	11	1050	431	8950	74
27	5805	419	24	11	1481	430	8519	73
28	6224	419	13	11	1911	430	8089	72
29	6643	418	9.994302	11	2341	429	7659	71
0.1030	7061	418	9.994291	11	2770	429	7230	0.8970
		418		11		429		
31	7479	417	80	11	3199	428	6801	69
32	7896	417	69	12	3627	428	6373	68
33	8313	416	57	11	4055	428	5945	67
34	8729	416	46	11	4483	427	5517	66
35	9145	416	35	11	4910	427	5090	65
		416		11		427		
36	9561	415	24	11	5337	427	4663	64
37	9.209976	415	13	12	5764	426	423	63
38	9.210391	415	9.994201	11	6190	426	381	62
39	0806	414	9.994190	11	6616	425	338	61
0.1040	1220	414	79	11	7041	425	295	0.8960
		414		11		425		
41	1634	413	68	12	7466	424	2534	59
42	2047	413	56	11	7890	424	2110	58
43	2460	412	45	11	8314	424	1686	57
44	2872	412	34	11	8738	424	1262	56
45	3284	412	23	11	9162	424	0839	55
		412		12		423		
46	3696	411	11	11	9.219585	422	10.780416	54
47	4107	411	9.994100	11	9.220007	422	10.779993	53
48	4518	410	9.994089	12	0429	422	9571	52
49	4928	410	77	12	0851	422	9149	51
0.1050	9.215338	410	9.994066	11	9.221272	421	10.778728	0.8950
		410		11		421		

0. 105.

Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
410	9.994066	11	9.221272	421	10.778728	0.8950
409	55	12	1693	421	8307	49
409	43	11	2114	420	7886	48
409	32	12	2534	420	7466	47
408	20	12	2954	420	7046	46
407	9.994009	11	3374	420	6626	45
407	86	11	3793	419	6207	44
408	9.993998	12	4212	419	5789	43
407	75	11	4630	418	5370	42
406	63	12	5048	418	4952	41
406	52	11	5465	417	4533	0.8940
406	40	12	5883	418	4118	39
405	29	11	6299	416	3701	38
405	17	12	6716	417	3284	37
405	9.993906	11	7132	416	2868	36
404	9.993894	12	7548	416	2453	35
404	83	11	7963	415	2037	34
403	71	12	8378	415	1622	33
403	60	11	8792	414	1208	32
403	48	12	9207	415	0794	31
402	37	11	9.229620	413	10.770380	0.8930
402	25	12	9.230034	414	10.769966	29
401	14	11	0447	413	9553	28
401	9.993802	12	0860	413	9141	27
401	9.993790	12	1272	412	8728	26
399	79	11	9.231684	412	10.768316	25
399	67	12	2095	411	7905	24
399	55	12	2507	412	7493	23
399	44	11	2918	411	7083	22
399	32	12	3328	410	6672	21
399	20	12	3738	410	6262	0.8920
398	9.993709	11	4148	410	5852	19
397	9.993697	12	4557	409	5443	18
397	85	12	4966	409	5034	17
397	74	11	5375	409	4625	16
396	62	12	5783	408	4217	15
396	50	12	6191	408	3809	14
396	38	12	6599	408	3401	13
395	27	11	7006	407	2994	12
395	15	12	7413	407	2587	11
394	9.993603	12	7820	407	2181	0.8910
395	9.993591	12	8226	406	1774	09
394	79	12	8631	405	1369	08
393	68	11	9037	406	0963	07
394	56	12	9442	405	0558	06
393	44	12	9.239847	405	10.760153	05
392	32	12	9.240251	404	10.759749	04
392	20	12	0655	404	9345	03
391	9.993508	12	1059	404	8941	02
391	9.993496	12	1462	403	8538	01
391	9.993484	12	9.241865	403	10.758135	0.8900
Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

O. 110.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.1100	9.235349	391	9.993484	11	9.241865	403	10.758135	0.8900
01	5740	390	73	12	2268	402	7732	0.8899
02	6130	390	61	12	2670	402	7330	98
03	6520	390	49	12	3072	401	6928	97
04	6910	389	37	12	3473	402	6527	96
05	7299	389	25	12	3875	400	6126	95
06	7688	389	13	12	4275	401	5725	94
07	8077	388	9.993401	12	4676	400	5324	93
08	8465	388	9.993389	12	5076	400	4923	92
09	8853	387	7	12	5476	399	4522	91
0.1110	9240	387	65	12	5875	399	4121	0.8880
11	9.239627	387	53	12	6274	399	3720	6
12	9.240014	386	41	12	6673	399	3320	7
13	0400	386	29	12	7072	398	2920	8
14	0786	386	17	12	7470	398	2520	9
15	1172	385	9.993305	12	7868	397	2120	3
16	1557	385	9.993293	13	8265	397	1720	5
17	1942	385	80	12	8662	397	1320	8
18	2327	384	68	12	9059	396	920	1
19	2711	384	56	12	9455	396	520	5
0.1120	3095	384	44	12	9.249851	396	10.7501	0.8880
21	3479	383	32	12	9.250247	395	10.7497	3
22	3862	383	20	12	0642	395	930	8
23	4245	383	9.993208	12	1037	395	890	3
24	4628	382	9.993196	12	1432	394	850	8
25	9.245010	382	83	13	1826	394	810	4
26	5392	381	71	12	2220	394	770	0
27	5773	381	59	12	2614	393	730	6
28	6154	381	47	12	3007	394	690	3
29	6535	380	35	12	3401	392	650	0
0.1130	6915	381	22	13	3793	392	620	0.8870
31	7296	379	9.993110	12	4186	392	580	5
32	7675	380	9.993098	12	4578	391	540	3
33	8055	379	86	12	4969	392	500	1
34	8434	379	73	13	5361	391	460	9
35	8813	378	61	12	5752	390	420	8
36	9191	378	49	12	6142	391	380	8
37	9569	378	36	13	6533	390	340	3
38	9.249947	377	24	12	6923	390	300	9
39	9.250324	377	9.993012	12	7313	389	260	8
0.1140	0701	377	9.992999	12	7702	389	220	0.8860
41	1078	376	87	12	8091	389	190	5
42	1454	376	75	13	8480	388	152	0
43	1830	376	62	12	8868	388	113	2
44	2206	375	50	12	9256	388	74	4
45	2581	375	38	13	9.259644	387	10.740356	54
46	2956	375	25	12	9.260031	388	10.739969	53
47	3331	375	13	13	0419	386	9581	52
48	3706	374	9.992900	12	0805	387	9195	51
49	4080	373	9.992888	12	1192	386	8808	50
0.1150	9.254453	373	9.992875	13	9.261578	386	10.738422	0.8850
Ar.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	

o. 115.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
9.254453	374	9.992875	12	9.261578	386	10.738422	0.8850
4827	373	63	13	1964	385	8036	49
5200	372	50	12	2349	385	7651	48
5572	373	38	13	2734	385	7266	47
5945	372	25	13	3119	385	6881	46
6317	371	13	12	3504	384	6496	45
6688	372	9.992800	12	3888	384	6112	44
7060	371	9.992788	13	4272	384	5728	43
7431	371	75	12	4656	383	5344	42
7802	370	63	13	5039	383	4961	41
8172	370	50	12	5422	383	4578	0.8840
8542	370	38	13	5805	382	4196	39
8912	369	25	13	6187	382	3813	38
9281	369	9.992712	12	6569	382	3431	37
9.259650	369	9.992700	13	6951	381	3049	36
9.260019	369	9.992687	12	7332	381	2668	35
0388	368	75	13	7713	381	2287	34
0756	368	62	13	8094	380	1906	33
1124	367	49	12	8474	380	1526	32
1491	367	37	13	8854	380	1146	31
1858	367	24	13	9234	380	0766	0.8830
2225	367	9.992611	12	9614	379	0386	29
2592	366	9.992599	13	9.269903	379	10.730007	28
2958	366	86	13	9.270372	379	10.729628	27
3324	365	73	13	0751	378	9250	26
9.263689	365	60	12	1129	378	8871	25
4054	365	48	13	1507	378	8493	24
4419	365	35	13	1885	377	8116	23
4784	364	22	13	2262	377	7738	22
5148	364	9.992509	12	2639	377	7361	21
5512	364	9.992497	13	3016	376	6984	0.8820
5876	363	84	13	3392	376	6608	19
6239	363	71	13	3768	376	6232	18
6602	363	58	13	4144	376	5856	17
6965	362	45	12	4520	375	5480	16
7327	363	33	13	4895	375	5105	15
7690	361	20	13	5270	375	4730	14
8051	362	9.992407	13	5645	374	4355	13
8413	361	9.992394	13	6019	374	3981	12
8774	361	81	13	6393	374	3607	11
9135	360	68	13	6767	373	3233	0.8810
9495	361	55	13	7140	373	2860	09
9.269856	360	42	13	7513	373	2487	08
9.270216	359	29	13	7886	373	2114	07
0575	359	16	13	8259	372	1741	06
0934	359	9.992303	12	8631	372	1369	05
1293	357	9.992291	13	9003	372	0997	04
1652	358	78	13	9375	371	0625	03
2010	359	65	13	9.279746	371	10.720254	02
2369	357	52	13	9.280117	371	10.719883	01
9.272726	357	9.992239	13	9.280488	371	10.719512	0.8800

o. 880.

Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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O. 120.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
0.1200	9.272726	358	9.992239	13	9.280488	370	10.719512
01	3084	357	226	13	0858	370	0142
02	3441	357	213	13	1228	370	877
03	3798	356	199	14	1598	370	840
04	4154	357	186	13	1968	369	803
05	4511	357	173	13	2337	369	766
		356		13		369	
06	4867	355	160	13	2706	369	729
07	5222	356	147	13	3075	368	692
08	5578	355	134	13	3443	369	655
09	5933	354	121	13	3812	367	618
0.1210	6287	355	108	13	4179	368	582
		354		13		367	
11	6642	354	095	13	4547	367	545
12	6996	354	082	14	4914	367	508
13	7350	353	068	13	5281	367	471
14	7703	354	055	13	5648	366	435
15	8057	352	042	13	6014	367	398
		353		13		365	
16	8409	353	029	13	6381	365	362
17	8762	352	016	13	6746	366	325
18	9114	353	9.992003	14	7112	365	288
19	9467	351	9.991989	13	7477	365	252
0.1220	9.279818	352	976	13	7842	365	215
		351		13		365	
21	9.280170	351	963	13	8207	364	179
22	0521	351	950	14	8571	365	142
23	0872	350	936	13	8936	363	106
24	1222	351	923	13	9299	364	070
25	1573	350	9.991910	14	9.289663	363	10.710337
		349		13		363	
26	1923	349	896	13	9.290026	363	10.709974
27	2272	350	883	13	0389	363	9611
28	2622	349	870	14	0752	362	9248
29	2971	349	856	13	1114	363	8886
0.1230	3320	348	843	13	1477	363	8524
		348		13		361	
31	3668	348	830	14	1838	362	8162
32	4016	348	816	13	2200	361	7800
33	4364	348	803	13	2561	361	7439
34	4712	347	790	14	2922	361	7078
35	5059	348	776	13	3283	361	6717
		346		14		360	
36	5407	346	763	14	3644	360	6356
37	5753	347	749	13	4004	360	5996
38	6100	346	736	13	4364	360	5636
39	6446	346	723	14	4724	359	5277
0.1240	6792	346	709	13	5083	359	4917
		345		14		359	
41	7138	345	696	14	5442	358	4558
42	7483	345	682	13	5801	358	4199
43	7828	345	669	14	6159	359	3841
44	8173	344	655	13	6518	358	3482
45	8517	345	642	14	6876	358	3124
		344		13		357	
46	8862	343	628	14	7234	357	2767
47	9206	343	615	14	7591	357	2409
48	9549	344	601	13	7948	357	2052
49	9.289893	343	588	14	8305	357	1695
0.1250	9.290236	343	9.991574	14	9.298662	357	10.701338
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot	Dif.	Log. Tang.

α 085.

Ar.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar.
00850	9.124248	507	9.996117	9	9.128130	517	10.8-1870	0.9150
51	4755	507	9.996108	9	864	516	1353	49
52	5262	507	9.996099	9	9163	516	0837	48
53	5769	505	9	9	9.129679	515	10.870321	47
54	6274	506	81	10	9.130194	514	10.869806	46
55	6780	504	71	9	0708	514	9292	45
56	7284	504	62	9	1222	513	8778	44
57	7788	504	53	9	1735	513	8265	43
58	8292	502	44	9	2248	512	7752	42
59	8794	503	35	10	2760	511	7240	41
00860	9297	501	25	9	3271	511	6729	0.9140
61	9.129798	501	16	9	3782	511	6218	39
62	9.130299	501	9.996007	10	4293	509	5707	38
63	0800	500	9.995997	9	4802	510	5198	37
64	1300	499	88	9	5312	508	4688	36
65	1799	499	79	10	5820	508	4180	35
66	2298	498	69	9	6328	508	3672	34
67	2796	497	60	9	6836	507	3164	33
68	3293	497	51	9	7343	506	2658	32
69	3790	497	41	10	7849	506	2151	31
00870	4287	495	32	9	8355	505	1645	0.9130
71	4782	496	23	9	8860	504	1140	29
72	5278	494	13	9	9364	504	0636	28
73	5772	494	9.995904	10	9.139868	504	10.860132	27
74	6266	494	9.995894	9	9.140372	503	10.859628	26
75	9.136760	493	85	9	0877	502	9125	25
76	7253	492	75	9	1377	502	8623	24
77	7745	492	66	9	1879	501	8121	23
78	8237	491	57	10	2380	501	7620	22
79	8728	491	47	9	2881	500	7119	21
00880	9219	490	38	9	3381	500	6619	0.9120
81	9.139709	489	28	9	3881	499	6119	19
82	9.140198	489	19	10	4380	498	5620	18
83	0687	489	9.995809	9	4878	498	5122	17
84	1176	487	9.995800	9	5376	498	4624	16
85	1663	488	90	10	5874	496	4127	15
86	2151	486	80	9	6370	497	3630	14
87	2637	487	71	10	6867	497	3133	13
88	3124	485	61	9	7362	496	2638	12
89	3609	485	52	9	7858	494	2143	11
00890	4094	485	42	10	8352	494	1648	0.9110
91	4579	484	33	9	8846	494	1154	09
92	5063	483	23	10	9340	493	0660	08
93	5546	483	13	9	9.149833	492	10.850167	07
94	6029	482	9.995704	9	9.150325	492	10.849675	06
95	6511	482	9.995694	10	0817	492	9183	05
96	6993	481	84	9	1309	491	8692	04
97	7474	481	75	10	1800	490	8200	03
98	7955	480	65	9	2290	490	7710	02
00900	8435	480	55	10	2780	489	7220	01
0900	9.148915	480	9.995646	9	9.153269	489	10.846731	0.9100

α 910.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
o. 1300	9.307041	329	9.990882	15	9.316159	344	10.6838
01	7370	329	867	14	6503	343	34
02	7699	329	853	14	6846	343	31
03	8028	328	839	14	7189	342	28
04	8356	329	825	14	7531	343	24
05	8685	328	811	14	7874	342	21
06	9013	327	797	15	8216	342	17
07	9340	328	782	14	8558	342	14
08	9668	327	768	14	8900	341	11
09	9.30995	327	754	14	9241	341	07
o. 1310	9.310322	327	740	15	9582	341	04
11	0649	326	725	14	9.319923	341	10.6800
12	0975	326	711	14	9.320264	340	10.6797
13	1301	326	697	14	0604	341	93
14	1627	326	683	15	0945	340	90
15	1953	325	668	14	1285	339	87
16	2278	326	654	14	1624	340	83
17	2604	324	640	15	1964	339	80
18	2928	325	625	14	2303	339	76
19	3253	325	611	14	2642	339	73
o. 1320	3578	324	597	15	2981	338	70
21	3902	324	582	14	3319	339	66
22	4226	323	568	14	3658	338	63
23	4549	324	554	15	3996	337	60
24	4873	323	539	14	4333	338	56
25	9.315196	323	9.990525	15	9.324671	337	10.6753
26	5519	322	510	14	5008	337	49
27	5841	323	496	14	5345	337	46
28	6164	322	482	15	5682	337	43
29	6486	322	467	14	6019	336	39
o. 1330	6808	321	453	15	6355	336	36
31	7129	322	438	14	6691	336	33
32	7451	321	424	15	7027	336	29
33	7772	321	409	14	7363	335	26
34	8093	321	395	15	7698	335	23
35	8414	320	380	14	8033	335	19
36	8734	320	366	15	8368	335	16
37	9054	320	351	14	8703	334	12
38	9374	320	337	15	9037	335	09
39	9.319694	319	322	14	9372	334	06
o. 1340	9.320013	319	308	15	9.329706	333	10.6702
41	0332	319	293	15	9.330039	334	10.6699
42	0651	319	278	14	0373	333	96
43	0970	318	264	15	0706	333	92
44	1288	319	249	14	1039	333	89
45	1607	317	235	15	1372	333	86
46	1924	318	220	15	1705	332	82
47	2242	318	205	14	2037	332	79
48	2560	317	191	15	2369	332	76
49	2877	317	176	15	2701	332	72
o. 1350	9.323194	317	9.990161	15	9.333033	332	10.6669
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tan.

sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	A.c.
1194	317	9.990161	14	9.333033	331	10.666967	0.8650
3511	316	147	15	3364	331	6636	49
3827	316	132	15	3695	331	6305	48
4143	316	117	15	4026	331	5974	47
4459	316	102	15	4357	331	5643	46
4775	316	088	14	4688	331	5313	45
	316		15		330		
5091	315	073	15	5018	330	4982	44
5406	315	058	15	5348	330	4652	43
5721	315	043	15	5678	329	4322	42
6036	315	029	14	6007	330	3993	41
6350	314	9.990014	15	6337	330	3663	0.8640
	315		15		329		
6665	314	9.989999	15	6666	329	3334	39
6979	314	984	15	6995	329	3005	38
7293	313	969	15	7324	328	2677	37
7606	314	954	14	7652	328	2348	36
7920	313	940	14	7980	328	2020	35
	313		15		328		
8233	313	925	15	8308	328	1692	34
8546	313	910	15	8636	328	1364	33
8859	312	895	15	8964	327	1037	32
9171	312	880	15	9291	327	0709	31
9483	312	865	15	9618	327	0382	0.8630
	312		15		327		
9.329795	312	850	15	9.339945	327	10.660055	29
9.330107	311	835	15	9.340272	326	10.659728	28
0418	312	820	15	0598	326	9402	27
0730	311	805	14	0924	326	9076	26
1041	311	9.989791	15	1250	326	8750	25
	310		15		326		
1352	310	776	15	1576	326	8424	24
1662	310	761	15	1902	325	8098	23
1972	311	746	15	2227	325	7773	22
2283	309	731	15	2552	325	7448	21
2592	310	716	15	2877	325	7123	0.8620
	310		15		325		
2902	310	701	16	3202	324	6798	19
3212	309	685	15	3526	324	6474	18
3521	309	670	15	3850	324	6150	17
3830	308	655	15	4174	324	5826	16
4138	309	640	15	4498	324	5502	15
	308		15		324		
4447	308	625	15	4822	323	5178	14
4755	308	610	15	5145	323	4855	13
5063	308	595	15	5468	323	4532	12
5371	308	580	15	5791	323	4209	11
5679	307	565	15	6114	322	3886	0.8610
	307		15		323		
5986	307	550	16	6436	323	3564	0
6293	307	534	15	6759	322	3241	0
6600	307	519	15	7081	322	2919	0
6907	306	504	15	7403	321	2598	c
7213	306	489	15	7724	322	2276	c
	306		15		321		
7519	306	474	15	8046	321	1955	
7825	306	459	16	8367	321	1633	
8131	306	443	15	8688	320	1312	
8437	305	428	15	9008	321	0992	
9.338742	305	9.989413	15	9.349329	321	10.650671	0.8
Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	/

0. 140.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.1400	9.338742	305	9.989413	15	9.349329	320	10.65067	0.8600
01	9047	305	398	16	9649	320	035	0.8599
02	9352	304	382	15	9.349969	320	10.65003	98
03	9656	305	367	15	9.350289	320	10.64971	97
04	9.339961	304	352	16	0609	320	939	96
05	9.340265	304	336	15	0929	319	907	95
06	0569	304	321	15	1248	319	875	94
07	0873	303	306	16	1567	319	843	93
08	1176	303	290	15	1886	318	811	92
09	1479	304	275	15	2204	319	779	91
0.1410	1783	302	260	16	2523	318	747	0.8590
11	2085	303	244	15	2841	318	715	89
12	2388	302	229	15	3159	318	683	88
13	2690	303	214	16	3477	317	651	87
14	2993	302	198	15	3794	318	619	86
15	3295	301	183	16	4112	317	587	85
16	3596	302	167	15	4429	317	555	84
17	3898	301	152	15	4746	317	523	83
18	4199	301	137	16	5063	316	491	82
19	4500	301	121	15	5379	317	459	81
0.1420	4801	301	106	15	5696	316	427	0.8580
21	5102	300	090	16	6012	316	395	79
22	5402	300	075	15	6328	315	363	78
23	5702	300	059	16	6643	315	331	77
24	6002	300	044	15	6959	315	300	76
25	9.346302	300	028	16	9.357274	315	10.64272	75
26	6602	299	9.989013	16	7589	315	241	7
27	6901	299	9.988997	16	7904	315	209	6
28	7200	299	981	15	8219	315	178	5
29	7499	299	966	16	8533	314	146	4
0.1430	7798	298	950	15	8847	314	115	0.85
31	8096	298	935	16	9161	314	083	9
32	8394	298	919	16	9475	314	052	5
33	8692	298	903	15	9.359789	313	10.640211	1
34	8990	298	888	16	9.360102	314	10.639898	8
35	9288	297	872	15	0416	313	9584	4
36	9585	297	857	16	0729	313	9271	1
37	9.349882	297	841	16	1042	312	8959	0
38	9.350179	297	825	15	1354	313	8646	
39	0476	297	810	16	1667	312	8333	
0.1440	0773	296	794	16	1979	312	8021	
41	1069	296	778	16	2291	312	7709	
42	1365	296	762	15	2603	311	7397	
43	1661	296	747	16	2914	312	7086	
44	1957	295	731	16	3226	311	6774	
45	2252	295	715	16	3537	311	6463	
46	2547	296	699	15	3848	311	6152	
47	2843	294	684	16	4159	311	5841	
48	3137	295	668	16	4470	310	5531	
49	3432	294	652	16	4780	310	5220	
0.1450	9.353726	294	9.988636	16	9.365090	310	10.634910	0.8

O. 103.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
1.1050	9.215338	410	9.994066	11	9.221272	421	10.778728	0.8950
51	5-48	409	55	12	1193	421	8307	49
52	6157	409	43	11	2114	420	7885	48
53	6566	409	32	12	2534	420	7466	47
54	6975	408	20	11	2954	420	7046	46
55	7383	407	9.994009	11	3374	419	6626	45
56	7790	408	9.993998	12	3793	419	6207	44
57	8198	407	86	11	4212	418	5789	43
58	8605	406	73	12	4630	418	5370	42
59	9011	406	63	12	5048	417	4952	41
0.1060	9417	406	52	11	5465	418	4535	0.8940
61	9.219823	405	40	11	5883	416	4118	39
62	9.220228	405	29	12	6299	417	3701	38
63	0633	405	17	11	6716	416	3284	37
64	1038	404	9.993906	12	7132	416	2868	36
65	1442	404	9.993894	11	7548	415	2453	35
66	1846	403	83	12	7963	415	2037	34
67	2249	403	71	11	8378	414	1622	33
68	2652	403	60	12	8792	415	1208	32
69	3055	402	48	12	9207	413	0794	31
0.1070	3457	402	37	11	9.229620	414	10.770380	0.8930
71	3859	401	25	12	9.230034	413	10.769966	29
72	4260	401	14	11	0447	413	9553	28
73	4661	401	9.993802	12	0860	412	9141	27
74	5062	401	9.993790	12	1272	412	8728	26
75	9.225463	399	79	11	9.231684	411	10.768316	25
76	5862	400	67	12	2095	412	7905	24
77	6262	399	55	11	2507	411	7493	23
78	6661	399	44	12	2918	410	7083	22
79	7060	399	32	12	3328	410	6672	21
0.1080	7459	398	20	12	3738	410	6262	0.8920
81	7857	397	9.993709	11	4148	409	5852	19
82	8254	398	9.993697	12	4557	409	5443	18
83	8652	397	85	12	4966	409	5034	17
84	9049	396	74	11	5375	408	4625	16
85	9445	396	62	12	5783	408	4217	15
86	9.229841	396	50	12	6191	408	3809	14
87	9.230237	396	38	11	6599	407	3401	13
88	0633	395	27	12	7006	407	2994	12
89	1028	394	15	12	7413	407	2587	11
0.1090	1422	395	9.993603	12	7820	406	2181	0.8910
91	1817	394	9.993591	12	8226	405	1774	09
92	2211	393	79	11	8631	406	1369	08
93	2604	394	68	12	9037	405	0963	07
94	2998	393	56	12	9442	405	0558	06
95	3391	393	44	12	9.239847	404	10.760153	05
96	3783	392	32	12	9.240251	404	10.759749	04
97	4175	392	20	12	0655	404	9345	03
98	4567	391	9.993508	12	1059	403	8941	02
0.1100	4958	391	9.993496	12	1462	403	8538	01
0.1100	9.235349	391	9.993484	12	9.241865	403	10.758135	0.8900
Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	A
1.1500	9.368185		9.987832		9.380354		10.619646	0.8
01	8469	284	815	17	0654	300	934	0.
02	8753	284	799	16	0954	300	904	0.
03	9037	284	782	17	1255	301	874	0.
04	9320	283	766	16	1554	299	844	0.
05	9604	284	750	16	1854	300	814	0.
06	9.369887	283	733	17	2154	300	784	0.
07	9.370170	282	717	16	2453	299	754	0.
08	0452	283	700	17	2752	299	724	0.
09	0735	282	684	16	3051	299	694	0.
0.1510	1017	282	667	17	3350	299	665	0.
		281		16		298		
11	1209	282	651	17	3648	299	635	0.
12	1581	282	634	16	3947	298	605	0.
13	1863	281	618	17	4245	298	575	0.
14	2144	282	601	16	4543	298	545	0.
15	2426	281	585	17	4841	298	515	0.
16	2707	281	568	16	5139	297	486	0.
17	2988	280	552	17	5436	297	456	0.
18	3268	281	535	16	5734	298	426	0.
19	3549	280	518	17	6031	297	396	0.
0.1520	3829	281	502	16	6328	297	367	0.
		280		17		296		
21	4110	280	485	16	6624	297	337	0.
22	4390	279	469	17	6921	296	307	0.
23	4669	280	452	16	7217	297	278	0.
24	4949	279	435	17	7514	296	248	0.
25	9.375228	280	9.987419	16	9.387810	296	10.612190	0.
26	5508	279	402	17	8106	295	189	0.
27	5788	278	385	16	8401	296	159	0.
28	6065	279	369	17	8697	295	130	0.
29	6344	279	352	16	8992	295	100	0.
0.1530	6623	278	335	17	9287	295	071	0.8
31	6901	278	318	16	9582	295	041	0.
32	7179	278	302	17	9.389877	295	10.610123	0.
33	7457	277	285	16	9.390172	294	10.609828	0.
34	7734	278	268	17	0466	294	953	0.
35	8012	277	251	16	0761	295	923	0.
36	8289	277	235	17	1055	294	894	0.
37	8566	277	218	16	1349	294	865	0.
38	8843	277	201	17	1642	293	835	0.
39	9120	277	184	16	1936	293	806	0.
0.1540	9397	276	167	17	2229	293	777	0.
41	9673	276	151	16	2523	294	747	0.
42	9.379949	276	134	17	2816	293	718	0.
43	9.380225	276	117	16	3109	293	689	0.
44	0501	276	100	17	3401	292	659	0.
45	0777	275	083	16	3694	293	630	0.
46	1052	276	066	17	3986	292	601	0.
47	1328	275	049	16	4278	292	572	0.
48	1603	275	032	17	4570	292	543	0.
49	1878	274	9.987015	16	4862	292	513	0.
0.1550	9.382152	274	9.986998	17	9.395154	292	10.604846	0.
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
9.382152	275	9.986998	16	9.395154	291	10.604846	0.8450
2427	274	982	17	5445	292	4555	49
2701	274	965	17	5737	291	4263	48
2975	274	948	17	6028	291	3972	47
3249	274	931	17	6319	291	3681	46
3523	274	914	17	6610	291	3390	45
3797	273	897	17	6900	290	3100	44
4070	274	880	17	7191	291	2809	43
4344	274	863	17	7481	290	2519	42
4617	273	846	17	7771	290	2229	41
4889	272	828	18	8061	290	1939	0.8440
5162	273	811	17	8351	290	1649	39
5435	273	794	17	8640	289	1360	38
5707	272	777	17	8930	290	1070	37
5979	272	760	17	9219	289	0781	36
6251	272	743	17	9508	289	0492	35
6523	272	726	17	9.399797	289	10.600203	34
6795	271	709	17	9.400086	288	10.599914	33
7066	271	692	18	0374	289	9626	32
7337	271	674	17	0663	288	9337	31
7608	271	657	17	0951	288	9049	0.8430
7879	271	640	17	1239	288	8761	29
8150	271	623	17	1527	288	8473	28
8421	271	606	17	1815	287	8185	27
8691	270	589	17	2102	288	7898	26
8961	270	9.986571	18	9.402390	287	10.597610	25
9231	270	554	17	2677	287	7323	24
9501	270	537	17	2964	287	7036	23
9.389771	269	520	18	3251	287	6749	22
9.390040	269	502	17	3538	286	6462	21
0309	269	484	17	3824	287	6176	0.8420
0578	269	468	18	4111	286	5889	19
0847	269	450	17	4397	286	5603	18
1116	269	433	17	4683	286	5317	17
1385	268	416	17	4969	286	5031	16
1653	268	398	18	5255	285	4745	15
1921	268	381	17	5540	286	4460	14
2189	268	364	18	5826	285	4174	13
2457	268	346	17	6111	285	3889	12
2725	268	329	17	6396	285	3604	11
2993	267	312	17	6681	285	3319	0.8410
3260	267	294	17	6966	284	3034	09
3527	267	277	18	7250	285	2750	08
3794	267	259	17	7535	284	2465	07
4061	267	242	18	7819	284	2181	06
4328	266	224	17	8103	284	1897	05
4594	266	207	18	8387	284	1613	04
4860	266	189	17	8671	284	1329	03
5126	266	172	18	8955	283	1046	02
5392	266	154	18	9238	283	0762	01
9.395658	266	9.986137	17	9.409521	283	10.590479	0.8400

0. 160.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0. 1600	9.395658		9.986137		9.409521		10.590479	0.8400
01	5924	266	119	18	9.409804	283	10.590196	0.8399
02	6189	265	102	17	9.410087	283	10.589913	
03	6454	265	84	18	0370	283	963	
04	6720	264	67	17	0653	283	934	
05	6984	264	49	18	0935	282	906	
		265		17		283		
06	7249	265	32	18	1218	282	878	
07	7514	264	9.986014	18	1500	282	850	
08	7778	264	9.985996	18	1782	282	821	
09	8042	264	979	17	2064	282	793	
0. 1610	8306	264	961	18	2345	281	765	0.8398
		264		17		282		
11	8570	264	944	18	2627	281	737	
12	8834	264	926	18	2908	281	709	
13	9098	263	908	18	3189	281	681	
14	9361	263	891	17	3470	281	653	
15	9624	263	873	18	3751	281	624	
		263		18		281		
16	9.399887	263	855	17	4032	281	596	
17	9.400150	263	838	18	4313	280	568	
18	0413	262	820	18	4593	280	540	
19	0675	263	802	18	4873	280	512	
0. 1620	0938	262	784	18	5153	280	484	
		262		17		280		
21	1200	262	767	18	5433	280	456	
22	1462	262	749	18	5713	280	428	
23	1724	261	731	18	5993	279	400	
24	1985	262	713	17	6272	279	372	
25	9.402247	261	9.985996	18	9.416551	280	10.583440	
		261		18		279		
26	2508	261	678	18	6831	279	316	
27	2769	261	660	18	7110	278	289	
28	3030	261	642	18	7388	279	261	
29	3291	261	624	18	7667	279	233	
0. 1630	3552	260	606	18	7946	278	205	
		260		18		278		
31	3812	261	588	17	8224	278	177	
32	4073	260	571	18	8502	278	149	
33	4333	260	553	18	8780	278	122	
34	4593	260	535	18	9058	278	94	
35	4853	260	517	18	9336	278	66	
		260		18		278		
36	5113	259	499	18	9614	277	0387	
37	5372	259	481	18	9.419891	277	10.580109	
38	5631	260	463	18	9.420168	277	10.579832	
39	5891	259	445	18	0445	277	955	
0. 1640	6150	258	427	18	0722	277	927	0.8397
		258		18		277		
41	6408	259	409	18	0999	277	900	
42	6667	259	391	18	1276	276	872	
43	6926	258	373	18	1552	276	844	
44	7184	258	355	18	1829	276	817	
45	7442	258	337	18	2105	276	789	
		258		18		276		
46	7700	258	319	18	2381	276	761	
47	7958	258	301	18	2657	276	733	
48	8216	257	283	18	2933	275	706	
49	8473	258	265	18	3208	275	679	
0. 1650	9.408731	258	9.985247	18	9.423484	276	10.576516	0.8396
		258		18		276		
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0. 835.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
9.408731		9.985247		9.423484		10.576516	0.8350
8988	257	229	18	3759	275	6241	49
9245	257	211	18	4034	275	5966	48
9502	257	193	18	4309	275	5691	47
9.409758	256	174	19	4584	275	5416	46
9.410015	257	156	18	4859	275	5141	45
	256		18		274		
0271	257	138	18	5133	275	4867	44
0528	257	120	18	5408	275	4592	43
0784	256	102	18	5682	274	4318	42
1040	256	084	18	5956	274	4044	41
1295	255	065	19	6230	274	3770	0.8340
	256		18		274		
1551	255	047	18	6504	273	3496	39
1806	255	029	18	6777	273	3223	38
2062	256	9.985011	18	7051	274	2949	37
2317	255	9.984993	18	7324	273	2676	36
2572	255	974	19	7598	274	2403	35
	255		18		273		
2827	254	956	18	7871	272	2130	34
3081	254	938	18	8143	272	1857	33
3336	255	919	19	8416	273	1584	32
3590	254	901	18	8689	273	1311	31
3844	254	883	18	8961	272	1039	0.8330
	254		18		273		
4098	254	865	19	9234	272	0767	29
4352	254	846	19	9506	272	0494	28
4606	254	828	18	9.429778	272	10.570222	27
4859	253	809	19	9.430050	272	10.569950	26
9.415112	253	9.984791	18	0321	271	9679	25
	254		18		272		
5366	253	773	19	0593	271	9407	24
5619	252	754	18	0864	271	9136	23
5871	253	736	18	1136	271	8865	22
6124	253	718	18	1407	271	8593	21
6377	253	699	19	1678	271	8322	0.8320
	252		18		271		
6629	252	681	19	1949	270	8052	19
6881	252	662	18	2219	270	7781	18
7133	252	644	18	2490	271	7510	17
7385	252	625	19	2760	270	7240	16
7637	252	607	18	3030	270	6970	15
	252		19		271		
7889	251	588	18	3301	270	6700	14
8140	252	570	19	3571	269	6430	13
8392	251	551	18	3840	269	6160	12
8643	251	533	18	4110	270	5890	11
8894	251	514	19	4380	270	5621	0.8310
	251		18		269		
9145	250	496	19	4649	269	5351	09
9395	251	477	19	4918	269	5082	08
9646	250	458	18	5187	269	4813	07
9.419896	250	440	18	5456	269	4544	06
9.420146	250	421	19	5725	269	4275	05
	250		18		269		
0396	250	403	19	5994	268	4006	04
0646	250	384	19	6262	269	3738	03
0896	250	365	18	6531	268	3469	02
1146	250	347	18	6799	268	3201	01
9.421395	249	9.984328	19	9.437067	268	10.562933	0.8300
Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 170.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
0.1700	9.421395	249	9.984328	19	9.437067	268	10.562933
01	1644	250	309	18	7335	268	2665
02	1894	248	291	18	7603	267	239
03	2142	249	272	19	7870	268	21
04	2391	249	253	19	8138	267	18
05	2640	249	235	18	8405	267	15
		249		19		268	
06	2889	248	216	19	8673	267	13
07	3137	248	197	19	8940	267	10
08	3385	248	178	19	9207	267	07
09	3633	248	160	18	9474	266	05
0.1710	3881	248	141	19	9.439740	267	10.5602
		248		19		267	
11	4129	247	122	19	9.440007	266	10.5599
12	4376	248	103	19	0273	266	97
13	4624	247	085	18	0539	267	94
14	4871	247	066	19	0806	266	91
15	5118	247	047	19	1072	265	89
		247		19		265	
16	5365	247	028	19	1337	266	86
17	5612	247	9.984009	19	1603	266	83
18	5859	246	9.983990	19	1869	265	81
19	6105	247	971	19	2134	265	78
0.1720	6352	246	953	18	2399	265	76
		246		19		265	
21	6598	246	934	19	2664	265	73
22	6844	246	915	19	2929	265	70
23	7090	246	896	19	3194	265	68
24	7336	246	877	19	3459	265	65
25	9.427582	245	9.983858	19	9.443724	264	10.5562
		245		19		264	
26	7827	245	839	19	3988	264	60
27	8072	246	820	19	4252	265	57
28	8318	245	801	19	4517	264	54
29	8563	245	782	19	4781	264	52
0.1730	8808	244	763	19	5045	263	49
		244		19		263	
31	9052	245	744	19	5308	264	46
32	9297	244	725	19	5572	263	44
33	9541	245	706	19	5835	264	41
34	9.429786	244	687	19	6099	263	39
35	9.430030	244	668	19	6362	263	36
		244		19		263	
36	0274	244	649	19	6625	263	33
37	0518	243	630	19	6888	263	31
38	0761	244	611	19	7151	263	28
39	1005	243	592	19	7414	262	25
0.1740	1248	244	572	20	7676	263	23
		244		19		263	
41	1492	243	553	19	7939	262	20
42	1735	243	534	19	8201	262	17
43	1978	243	515	19	8463	262	15
44	2221	242	496	19	8725	262	12
45	2463	243	477	20	8987	262	10
		243		20		262	
46	2706	242	457	19	9249	261	07
47	2948	243	438	19	9510	262	04
48	3191	242	419	19	9772	261	02
49	3433	242	400	19	9.450033	261	10.549967
0.1750	9.433675	242	9.983381	19	9.450294	261	10.549706
		242		19		261	
Arc.	Log. Cosin.	Dif.	Log Sin.	D.	Log. Cot.	Dif.	Log. Tang.

o. 825.

0. 175.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang	Dif.	Log. Cot.	Arc.
9.433675	241	9.983381	20	9.450294	261	10.549706	0.8250
3916	242	361	19	0555	261	9445	49
4158	242	342	19	0816	261	9184	48
4400	241	323	19	1077	261	8923	47
4641	241	304	19	1338	260	8663	46
4882	241	284	19	1598	260	8402	45
5123	241	265	19	1858	261	8142	44
5364	241	246	19	2119	260	7881	43
5605	241	226	19	2379	260	7621	42
5846	240	207	19	2639	260	7361	41
6086	241	188	20	2899	259	7101	0.8240
6327	240	168	19	3158	260	6842	39
6567	240	149	20	3418	259	6582	38
6807	240	129	19	3677	260	6323	37
7047	240	110	19	3937	259	6063	36
7287	239	99	20	4196	259	5804	35
7526	240	071	19	4455	259	5545	34
7766	239	052	20	4714	259	5286	33
8005	239	032	19	4973	258	5027	32
8244	239	9.983013	19	5231	259	4769	31
8483	239	9.982993	19	5490	258	4510	0.8230
8722	239	974	19	5748	259	4252	29
8961	239	955	20	6007	258	3993	28
9200	238	935	19	6265	258	3735	27
9438	239	916	20	6523	258	3477	26
9677	238	9.982896	20	9.456781	258	10.543219	25
9439915	238	876	19	7039	257	2962	24
9440153	238	857	20	7296	258	2704	23
0391	238	837	19	7554	257	2446	22
0629	237	818	20	7811	257	2189	21
0866	238	798	19	8068	257	1932	0.8220
1104	237	779	20	8325	257	1675	19
1341	238	759	20	8582	257	1418	18
1579	237	739	19	8839	257	1161	17
1816	237	720	20	9096	257	904	16
2053	236	700	20	9353	256	647	15
2289	237	680	19	9609	256	0391	14
2526	237	661	20	9.459865	257	10.540135	13
2763	236	641	20	9.460122	256	10.539878	12
2999	236	621	19	0378	256	9622	11
3235	237	602	20	0634	256	9366	0.8210
3472	236	582	20	0890	255	9111	09
3708	235	562	19	1145	256	8855	08
3943	236	543	20	1401	255	8599	07
4179	236	523	20	1656	256	8344	06
4415	235	503	20	1912	255	8088	05
4650	235	483	19	2167	255	7833	04
4885	236	464	20	2422	255	7578	03
5121	235	444	20	2677	255	7323	02
5356	234	424	20	2932	254	7068	01
9.445590	234	9.982404	20	9.463186	254	10.536814	0.8200
Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	A.c.

0. 820.

o. 180.

Ar.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar.
o. 1800	9.445590	235	9.982404	20	9.463186	255	10.536814	o.82
01	5825	235	384	20	3441	254	6559	o.81
02	6060	234	364	19	3695	255	6305	
03	6294	235	345	20	3950	254	6050	
04	6529	234	325	20	4204	254	5796	
05	6763	234	305	20	4458	254	5542	
06	6997	234	285	20	4712	254	5288	
07	7231	234	265	20	4966	253	5034	
08	7465	233	245	20	5219	254	4781	
09	7698	234	225	20	5473	253	4527	
o. 1810	7932	233	205	20	5726	254	4274	o.8
11	8165	233	185	20	5980	253	4020	
12	8398	233	165	20	6233	253	3767	
13	8631	233	145	19	6486	253	3514	
14	8864	233	126	20	6739	253	3261	
15	9097	233	106	20	6992	252	3008	
16	9330	232	86	20	7244	253	2756	
17	9562	233	66	21	7497	252	2503	
18	9.449795	232	045	20	7749	253	2251	
19	9.450027	232	025	20	8002	252	1998	
o. 1820	0259	232	9.982005	20	8254	252	1746	o.8
21	0491	232	9.981985	20	8506	252	1494	
22	0723	232	965	20	8758	252	1242	
23	0955	232	945	20	9010	251	0990	
24	1187	231	925	20	9261	252	0739	
25	9.451418	231	905	20	9513	252	0487	
26	1649	232	885	20	9.469765	251	10.530236	
27	1881	231	865	20	9.470016	251	10.529984	
28	2112	231	845	21	0267	251	9733	
29	2343	230	824	20	0518	251	9482	
o. 1830	2573	231	804	20	0769	251	9231	o.8
31	2804	231	784	20	1020	251	8980	
32	3035	230	764	20	1271	250	8729	
33	3265	230	744	20	1521	251	8479	
34	3495	231	724	21	1772	250	8228	
35	3726	230	703	20	2022	250	7978	
36	3956	229	683	20	2272	251	7728	
37	4185	230	663	20	2523	250	7477	
38	4415	230	643	20	2773	250	7227	
39	4645	229	622	21	3023	249	6978	
o. 1840	4874	230	602	20	3272	250	6728	o.8
41	5104	229	582	21	3522	249	6478	
42	5333	229	561	20	3771	250	6229	
43	5562	229	541	20	4021	249	5979	
44	5791	229	521	20	4270	249	5730	
45	6020	228	500	21	4519	249	5481	
46	6248	229	480	20	4768	249	5232	
47	6477	228	460	21	5017	249	4983	
48	6705	229	439	20	5266	249	4734	
49	6934	228	419	20	5515	248	4485	
o. 1850	9.457162	228	9.981399	20	9.475763	248	10.524237	o.8

o. 815.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Ar.
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Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.1450	9.353726	295	9.988636	16	9.365090	310	10.634910	0.8550
51	4021	294	620	15	5400	310	4600	49
52	4315	293	605	16	5710	310	4200	48
53	4608	294	589	16	6020	309	3980	47
54	4902	293	573	16	6320	309	3671	46
55	5195	294	557	16	6638	309	3362	45
56	5489	293	541	16	6947	309	3053	44
57	5782	292	525	16	7256	309	2744	43
58	6074	293	509	15	7565	308	2435	42
59	6367	292	494	16	7873	309	2127	41
0.1460	6659	292	478	16	8182	308	1819	0.8540
61	6951	292	462	16	8490	307	1510	39
62	7243	292	446	16	8797	308	1203	38
63	7535	291	430	16	9105	308	895	37
64	7826	292	414	16	9413	307	587	36
65	8118	291	398	16	9.369720	307	10.630280	35
66	8409	291	382	16	9.370027	307	10.629973	34
67	8700	290	366	16	0334	307	9666	33
68	8990	291	350	16	0641	306	9360	32
69	9281	290	334	16	0947	306	9053	31
0.1470	9571	290	318	16	1253	306	8747	0.8530
71	9.359861	290	302	16	1559	306	8441	29
72	9.360151	290	286	16	1865	306	8135	28
73	0441	289	270	16	2171	306	7829	27
74	0730	289	254	17	2477	305	7523	26
75	1019	289	9.988237	16	9.372782	305	10.627218	25
76	1308	289	221	16	3087	305	6913	24
77	1597	289	205	16	3392	305	6608	23
78	1886	288	189	16	3697	304	6303	22
79	2174	289	173	16	4001	305	5999	21
0.1480	2463	288	157	16	4306	304	5694	0.8520
81	2751	287	141	16	4610	304	5390	19
82	3038	288	125	17	4914	304	5086	18
83	3326	288	108	16	5218	303	4782	17
84	3614	287	92	16	5521	304	4479	16
85	3901	287	76	16	5825	303	4175	15
86	4188	287	60	16	6128	303	3872	14
87	4475	286	44	17	6431	303	3569	13
88	4761	287	27	16	6734	303	3266	12
89	5048	286	9.988011	16	7037	302	2963	11
0.1490	5334	286	9.987995	16	7339	302	2661	0.8510
91	5620	286	979	17	7641	303	2359	09
92	5906	285	963	16	7944	302	2057	08
93	6191	286	946	16	8246	301	1755	07
94	6477	285	930	17	8547	302	1453	06
95	6762	285	913	16	8849	301	1151	05
96	7047	285	897	16	9150	301	850	04
97	7332	285	881	17	9451	301	540	03
98	7617	284	864	16	9.379752	301	10.620248	02
0.1499	7901	284	848	16	9.380053	301	10.619947	01
0.1500	9.368185	284	9.987832	16	9.380354	301	10.619646	0.8500

o. 190.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log.
0. 1900	9.468407		9.980364		9.488043		10.51
01	8629	222	343	21	8286	243	
02	8850	221	322	21	8528	242	
03	9072	222	301	21	8771	243	
04	9293	221	280	21	9013	242	
05	9514	221	259	21	9255	242	
06	9735	221	238	21	9497	242	
07	9.469956	221	217	21	9739	242	
08	9.470177	221	196	21	9.489981	242	10.51
09	0398	220	175	22	9.490223	242	10.50
0. 1910	0618	221	153	21	0465	241	
11	0839	220	132	21	0706	242	
12	1059	220	111	21	0948	241	
13	1279	220	090	21	1189	241	
14	1499	220	069	21	1430	242	
15	1719	220	048	21	1672	241	
16	1939	220	027	22	1913	240	
17	2159	219	9.980005	21	2153	241	
18	2378	220	9.979984	21	2394	241	
19	2598	219	963	21	2635	241	
0. 1920	2817	220	942	21	2876	240	
21	3037	219	921	22	3116	240	
22	3256	219	899	21	3356	241	
23	3475	219	878	21	3597	240	
24	3694	218	857	21	3837	240	
0. 1930	9.473912	219	9.979836	22	9.494077	240	10.50
26	4131	218	814	21	4317	239	
27	4349	219	793	21	4556	240	
28	4568	218	772	22	4796	240	
29	4786	218	750	21	5036	239	
0. 1930	5004	218	729	21	5275	240	
31	5222	218	708	22	5515	239	
32	5440	218	686	21	5754	239	
33	5658	218	665	21	5993	239	
34	5876	217	644	22	6232	239	
35	6093	218	622	22	6471	239	
36	6311	217	601	22	6710	239	
37	6528	217	579	21	6949	238	
38	6745	217	558	22	7187	239	
39	6962	217	536	22	7426	238	
0. 1940	7179	217	515	21	7664	238	
41	7396	217	494	22	7902	239	
42	7613	216	472	21	8141	238	
43	7829	217	451	22	8379	238	
44	8046	216	429	21	8617	237	
45	8262	216	408	22	8854	238	
46	8478	216	386	21	9092	238	
47	8694	216	365	22	9330	237	
48	8910	216	343	22	9567	238	
49	9126	216	321	21	9.499805	237	10.50
0. 1950	9.479342	216	9.979300	21	9.500042	237	10.49
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. T

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0. 1550	9.382152		9.986998	16	9.395154		10.604846	0.8456
51	2427	275		16	5445	291	4355	49
52	2701	274	982	17	5737	292	4263	48
53	2975	274	965	17	6028	291	3972	47
54	3249	274	948	17	6319	291	3681	46
55	3523	274	931	17	6610	291	3390	45
		274	914	17		290		
56	3797	273	897	17	6900	291	3100	44
57	4070	274	880	17	7191	290	2809	43
58	4344	274	863	17	7481	290	2519	42
59	4617	273	846	17	7771	290	2229	41
0. 1560	4889	272	828	18	8061	290	1939	0.8440
		273		17		290		
61	5162	273	811	17	8351	289	1649	39
62	5435	272	794	17	8640	290	1360	38
63	5707	272	777	17	8930	289	1070	37
64	5979	272	760	17	9219	289	0781	36
65	6251	272	743	17	9508	289	0492	35
		272		17		289		
66	6523	272	726	17	9797	288	10.600203	34
67	6795	271	709	17	9.400086	289	10.599914	33
68	7066	271	692	17	03-4	289	9626	32
69	7337	271	674	17	0663	288	9337	31
0. 1570	7608	271	657	17	0951	288	9049	0.8430
		271		17		288		
71	7879	271	640	17	1239	288	8-61	29
72	8150	271	623	17	1527	288	84-3	28
73	8421	271	606	17	1815	288	8185	27
74	8691	270	589	17	2102	288	7898	26
75	8961	270	571	18	9.402390	287	10.597610	25
		270	9.986571	17		287		
76	9231	270	554	17	2677	287	7323	24
77	9501	270	537	17	2964	287	7036	23
78	9.389771	269	520	17	3251	287	6749	22
79	9.390040	269	502	18	3538	286	6462	21
0. 1580	0309	269	485	17	3824	287	6176	0.8420
		269		17		287		
81	0578	269	468	18	4111	286	5889	19
82	0847	269	450	17	4397	286	5603	18
83	1116	269	433	17	4683	286	5317	17
84	1385	268	416	17	4969	286	5031	16
85	1653	268	398	18	5255	285	4745	15
		268		17		285		
86	1921	268	381	17	5540	286	4460	14
87	2189	268	364	18	5826	285	4174	13
88	2457	268	346	17	6111	285	3889	12
89	2725	268	329	17	6396	285	3604	11
0. 1590	2993	268	312	17	6681	285	3319	0.8410
		267		18		285		
91	3260	267	294	17	6966	284	3034	09
92	3527	267	277	18	7250	285	2750	08
93	3794	267	259	17	7535	284	2465	07
94	4061	267	242	18	7819	284	2181	06
95	4328	266	224	17	8103	284	1897	05
		266		17		284		
96	4594	266	207	18	8387	284	1613	04
97	4860	266	189	17	8671	284	1329	03
98	5126	266	172	18	8955	283	1046	02
0. 1599	5392	266	154	18	9238	283	0762	01
0. 1600	9.395658	266	9.986157	17	9.409521	283	10.590479	0.8400
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

O. 200.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
0.2000	9.489982		9.978206		9.511776		10.488224
01	9.490192	210	184	22	2008	232	7992
02	0402	210	162	22	2240	232	7760
03	0612	210	140	22	2472	232	7528
04	0821	209	118	22	2704	231	7296
05	1031	210	095	23	2935	232	7065
06	1240	209	073	22	3167	231	6833
07	1449	209	051	22	3398	232	6602
08	1658	209	029	23	3630	231	6370
09	1867	209	9.978006	22	3861	231	6139
0.2010	2076	209	9.977984	22	4092	231	5908
11	2285	209	962	22	4323	231	5677
12	2494	208	940	23	4554	231	5446
13	2702	209	917	22	4785	231	5215
14	2911	208	895	22	5016	231	4984
15	3119	208	873	23	5247	230	4753
16	3327	209	850	22	5477	231	4523
17	3536	208	828	23	5708	230	4292
18	3744	207	805	22	5938	230	4062
19	3951	208	783	22	6168	231	3832
0.2020	4159	208	761	22	6399	230	3602
21	4367	207	738	22	6629	230	3371
22	4574	208	716	23	6859	230	3141
* 23	4782	207	693	22	7089	229	2912
24	4989	208	671	22	7318	230	2682
25	9.495197	207	9.977649	23	9.517548	230	10.482152
26	5404	207	626	22	7778	229	2452
27	5611	207	604	23	8007	230	2222
28	5818	206	581	22	8237	229	1993
29	6024	207	559	23	8466	229	1764
0.2030	6231	207	536	22	8695	229	1534
31	6438	206	514	23	8924	229	1305
32	6644	206	491	23	9153	229	1076
33	6850	207	468	22	9382	229	847
34	7057	206	446	23	9611	229	618
35	7263	206	423	22	9.519810	228	10.480100
36	7469	206	401	23	9.520068	229	10.479932
37	7675	206	378	22	0297	228	9703
38	7881	205	356	23	0525	229	9475
39	8086	206	333	22	0754	228	9247
0.2040	8292	206	310	23	0982	228	9018
41	8498	205	288	22	1210	228	8790
42	8703	205	265	23	1438	228	8562
43	8908	205	242	22	1666	228	8334
44	9113	205	220	23	1894	228	8106
45	9318	205	197	23	2122	227	7879
46	9523	205	174	23	2349	228	7651
47	9728	205	151	22	2577	227	7423
48	9.499933	205	129	23	2804	228	7196
49	9.500138	204	106	23	3032	227	6968
0.2050	9.500342	204	9.977083	23	9.523259	227	10.476741
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
1650	9.408731		9.985247		9.423484		10.576516	0.8350
51	8988	257		18	3759	275	62.11	49
52	9245	257	229	18	4034	275	5966	48
53	9502	257	211	18	4309	275	5691	47
54	9.409758	256	193	19	4584	275	5416	46
55	9.410015	257	174	18	4859	275	5141	45
		256	156	18		274		
56	0271	257	138	18	5133	275	4867	44
57	0528	256	120	18	5408	275	4592	43
58	0784	256	102	18	5682	274	4318	42
59	1040	256	84	18	5956	274	4044	41
0.1660	1295	255	65	19	6230	274	3770	0.8340
		256		18		274		
61	1551	255	047	18	6504	273	3496	39
62	1806	255	029	18	6777	273	3223	38
63	2062	256	029	18	7051	274	2949	37
64	2317	255	9.985011	18	7324	273	2676	36
65	2572	255	9.984993	19	7598	274	2403	35
		255	974	18		273		
66	2827	254	956	18	7871	272	2130	34
67	3081	254	938	18	8143	272	1857	33
68	3336	255	919	19	8416	273	1584	32
69	3590	254	910	18	8689	273	1311	31
0.1670	3844	254	901	18	8961	272	1039	0.8330
		254	883	18		273		
71	4098	254	865	19	9234	272	0767	29
72	4352	254	846	18	9506	272	0494	28
73	4606	254	828	18	9.429778	272	10.570222	27
74	4859	253	809	19	9.430030	272	10.569950	26
75	9.415112	253	809	18	0321	271	9679	25
		254	9.984791	18		272		
76	5366	253	773	19	0593	271	9407	24
77	5619	252	754	18	0864	271	9136	23
78	5871	252	736	18	1136	271	8865	22
79	6124	253	718	18	1407	271	8593	21
0.1680	6377	253	718	19	1678	271	8322	0.8320
		252	699	18		271		
81	6629	252	681	19	1949	270	8052	19
82	6881	252	662	19	2219	270	7781	18
83	7133	252	644	18	2490	271	7510	17
84	7385	252	625	19	2760	270	7240	16
85	7637	252	607	18	3030	270	6970	15
		252		19		271		
86	7889	251	588	18	3301	270	6700	14
87	8140	251	570	19	3571	269	6430	13
88	8392	252	551	19	3840	269	6160	12
89	8643	251	533	18	4110	270	5890	11
0.1690	8894	251	514	19	4380	270	5621	0.8310
		251		18		269		
91	9145	250	496	19	4649	269	5351	09
92	9395	251	477	19	4918	269	5082	08
93	9646	250	458	18	5187	269	4813	07
94	9.419896	250	440	19	5456	269	4544	06
95	9.420146	250	421	19	5725	269	4275	05
		250		18		269		
96	0396	250	403	19	5994	268	4006	04
97	0646	250	384	19	6262	269	3738	03
98	0896	250	365	19	6531	268	3469	02
0.1699	1146	249	347	18	6799	268	3201	01
1700	9.421395		9.984328		9.437067		10.562933	0.8300
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

O. 210.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar
0.2100	9.510434		9.975930		9.534504		10.465495	0.71
01	0634	200	907	23	4727	222	5274	0.71
02	0833	199	884	23	4949	222	5051	
03	1032	199	860	24	5171	223	4829	
04	1231	199	837	23	5394	222	4606	
05	1429	198	813	24	5616	222	4384	
06	1628	199	790	23	5838	222	4162	
07	1827	199	767	23	6060	222	3940	
08	2025	198	743	24	6282	222	3718	
09	2223	198	720	23	6504	222	3496	
0.2110	2422	199	696	24	6726	222	3274	0.71
11	2620	198	673	23	6947	221	3053	
12	2818	198	649	24	7169	222	2831	
13	3016	198	626	23	7390	221	2610	
14	3214	198	602	24	7612	222	2388	
15	3412	198	579	23	7833	221	2167	
16	3609	197	555	24	8054	221	1946	
17	3807	198	532	23	8275	221	1725	
18	4004	197	508	24	8496	221	1504	
19	4202	198	484	23	8717	221	1283	
0.2120	4399	197	461	24	8938	221	1062	0.71
21	4596	197	437	23	9159	221	0841	
22	4793	197	414	24	9380	220	0620	
23	4990	197	390	23	9600	221	0400	
24	5187	197	366	24	9821	220	10.460179	
25	9.515384	197	9.975343	23	9.540041	221	10.459959	
26	5581	196	319	24	0262	220	9738	
27	5777	196	295	23	0482	220	9518	
28	5974	197	272	24	0702	220	9298	
29	6170	196	248	23	0922	220	9078	
0.2130	6366	196	224	24	1142	220	8858	0.71
31	6563	197	201	23	1362	220	8638	
32	6759	196	177	24	1582	220	8418	
33	6955	196	153	23	1802	220	8199	
34	7150	195	129	24	2021	219	7979	
35	7346	196	106	23	2241	220	7759	
36	7542	196	082	24	2460	219	7540	
37	7738	195	058	23	2680	219	7321	
38	7933	195	034	24	2899	219	7101	
39	8128	195	9.975010	23	3118	219	6882	
0.2140	8324	196	9.974987	24	3337	219	6663	0.71
41	8519	195	963	23	3556	219	6444	
42	8714	195	939	24	3775	219	6225	
43	8909	195	915	23	3994	219	6006	
44	9104	195	891	24	4213	218	5787	
45	9299	194	867	23	4431	219	5569	
46	9493	194	843	24	4650	219	5350	
47	9688	195	819	23	4869	218	5131	
48	9.519882	194	795	24	5087	218	4913	
49	9.520077	195	772	23	5305	218	4695	
0.2150	9.520271	194	9.974748	24	9.545524	219	10.454476	0.71
Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar

o. 175.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.1750	9.433675	241	9.983381	20	9.450294	261	10.549706	0.8250
51	3916	242	361	19	0555	261	9415	49
52	4158	242	342	19	0816	261	9184	48
53	4400	241	323	19	1077	261	8953	47
54	4641	241	304	19	1338	260	8723	46
55	4882	241	285	19	1598	260	8492	45
56	5123	241	265	19	1858	261	8262	44
57	5364	241	246	20	2119	260	8031	43
58	5605	241	226	19	2379	260	7801	42
59	5846	240	207	19	2639	260	7571	41
0.1760	6086	241	188	20	2899	259	7341	40
61	6327	240	168	19	3158	260	7112	39
62	6567	240	149	20	3418	259	6882	38
63	6807	240	129	19	3677	260	6653	37
64	7047	240	110	19	3937	259	6423	36
65	7287	239	90	20	4196	259	6194	35
66	7526	240	71	19	4455	259	5964	34
67	7766	239	52	20	4714	259	5735	33
68	8005	239	32	19	4973	258	5505	32
69	8244	239	13	20	5231	259	5276	31
0.1770	8483	239	9.983013	20	5490	258	5046	30
71	8722	239	9.982697	19	5748	258	4817	29
72	8961	239	97	20	6007	258	4587	28
73	9200	238	77	19	6265	258	4358	27
74	9438	239	57	20	6523	258	4128	26
75	9677	238	9.982396	20	6781	258	3899	25
76	9439915	238	87	19	7039	257	3670	24
77	9440153	238	85	20	7296	258	3441	23
78	0391	238	83	19	7554	257	3212	22
79	0629	237	81	20	7811	257	2983	21
0.1780	0866	238	79	19	8068	257	2754	20
81	1104	237	77	20	8325	257	2525	19
82	1341	238	75	19	8582	257	2296	18
83	1579	237	73	20	8839	257	2067	17
84	1816	237	72	19	9096	257	1838	16
85	2053	236	70	20	9353	256	1609	15
86	2289	237	68	19	9609	256	1380	14
87	2526	237	66	20	9459865	257	1151	13
88	2763	236	64	19	9460122	256	922	12
89	2999	236	62	20	0378	256	693	11
0.1790	3235	237	60	19	0634	256	464	10
91	3472	236	58	20	0890	255	235	9
92	3708	235	56	19	1145	256	16	8
93	3943	236	54	20	1401	255	1	7
94	4179	236	52	19	1656	256	0	6
95	4415	235	50	20	1912	255	0	5
96	4650	235	48	19	2167	255	0	4
97	4885	236	46	20	2422	255	0	3
98	5121	235	44	19	2677	255	0	2
0.1800	5356	234	42	20	2932	254	0	1
9.445590	9.982104	234	9.982104	20	9.463186	254	10.536814	0.8200

o. 820.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
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Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log Tang.	Dif.	Log. Cot.	A
0.2200	9.529864	189	9.973535	25	9.556329	214	10.443671	0.7
01	9.530053	190	510	25	6543	214	3457	0.7
02	0243	189	485	24	6757	214	3243	
03	0432	189	461	24	6971	214	3029	
04	0621	189	436	24	7185	213	2815	
05	0810	189	412	24	7398	214	2602	
06	0999	189	387	25	7612	214	2388	
07	1188	189	362	24	7826	213	2174	
08	1377	188	338	25	8039	213	1961	
09	1565	189	313	25	8252	214	1748	
0.2210	1754	189	288	25	8466	213	1534	0.7
11	1943	188	264	25	8679	213	1321	
12	2131	188	239	25	8892	213	1108	
13	2319	189	214	24	9105	213	0895	
14	2508	188	190	25	9318	213	0682	
15	2696	188	165	25	9531	213	0469	
16	2884	188	140	25	9744	212	0256	
17	3072	188	115	24	9.559956	213	10.440044	
18	3260	187	091	25	9.560169	213	10.439831	
19	3447	188	066	25	0382	212	9619	
0.2220	3635	188	041	25	0594	212	9406	0.
21	3823	187	9.973016	25	0806	213	9194	
22	4010	187	9.972901	24	1019	212	8981	
23	4197	188	967	25	1231	212	8769	
24	4385	187	942	25	1443	212	8557	
25	9.534572	187	917	25	9.561655	212	10.438345	
26	4759	187	892	25	1867	212	8133	
27	4946	187	867	25	2079	212	7921	
28	5133	187	842	25	2291	212	7709	
29	5320	187	817	25	2503	211	7497	
0.2230	5507	186	792	25	2714	212	7286	0.
31	5693	187	767	24	2926	212	7074	
32	5880	187	743	25	3138	211	6863	
33	6067	186	718	25	3349	211	6651	
34	6253	186	693	25	3560	212	6440	
35	6439	186	668	25	3772	211	6228	
36	6625	187	643	25	3983	211	6017	
37	6812	186	618	25	4194	211	5806	
38	6998	186	593	25	4405	211	5595	
39	7184	185	568	25	4616	211	5384	
0.2240	7369	186	543	26	4827	211	5173	0.
41	7555	186	517	25	5038	210	4962	
42	7741	185	492	25	5248	211	4752	
43	7926	186	467	25	5459	211	4541	
44	8112	185	442	25	5670	210	4330	
45	8297	186	417	25	5880	211	4120	
46	8483	185	392	25	6091	210	3909	
47	8668	185	367	25	6301	210	3699	
48	8853	185	342	25	6511	211	3489	
49	9038	185	317	25	6722	211	3279	
0.2250	9.539223	185	9.972291	26	9.566932	210	10.433068	0.
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang	

Arc.	Log. Sin.	Dif.	Log. Cos. a.	D.	Log. Tang.	D. I.	Log. Cot.	A. c.
0.1850	9.457162	228	9.981309	21	9.457163	249	10.524237	0.8120
51	7390	228	3-8	21	6012	249	3128	40
52	7618	228	358	20	6270	248	3-40	48
53	7846	228	33-	21	6508	248	3422	47
54	8073	227	31-	20	6736	248	3244	47
55	8301	228	296	21	7004	248	2977	45
56	8528	227	276	20	7252	248	2748	44
57	8-55	227	256	20	7500	248	2500	43
58	8983	228	235	21	7748	248	2272	42
59	9210	227	215	20	7996	248	2007	41
0.1860	9436	226	194	21	8244	248	1778	0.8140
61	9663	227	173	21	8492	247	1511	39
62	9459890	227	153	20	8740	247	1277	38
63	9460116	226	132	21	8988	247	1071	37
64	0348	226	112	20	9236	247	879	36
65	0569	226	091	21	9484	247	692	35
66	0795	226	071	21	9732	247	527	34
67	1021	226	050	21	9470071	247	10.520020	33
68	1247	226	029	20	9480217	247	10.519785	32
69	1473	225	9.981000	21	9732	247	383	31
0.1870	1698	225	9.980988	21	0710	247	929	0.8130
71	1924	225	968	21	0736	246	924	29
72	2149	225	947	21	1202	246	870	28
73	2374	225	926	20	1448	246	827	27
74	2599	225	906	21	1694	246	802	26
75	9.462824	225	9.980885	21	9.481931	246	10.518061	25
76	3049	225	864	21	2171	245	7815	24
77	3274	224	843	21	2430	245	7570	23
78	3498	224	823	20	2711	245	7325	22
79	3723	224	802	21	2921	245	7090	21
0.1880	3947	224	781	21	3170	245	6834	0.8120
81	4171	224	761	21	3411	245	6589	19
82	4395	224	740	21	3656	244	6345	18
83	4619	224	719	21	3900	244	6100	17
84	4843	224	698	21	4145	244	5855	16
85	5067	223	677	21	4389	244	5611	15
86	5290	224	657	21	4634	244	5366	14
87	5514	223	636	21	4878	244	5122	13
88	5737	223	615	21	5122	244	4878	12
89	5960	223	594	21	5366	244	4634	11
0.1890	6183	223	573	21	5610	244	4390	0.8110
91	6406	223	552	21	5854	244	4146	09
92	6629	223	531	20	6098	243	3902	08
93	6852	222	511	21	6341	243	3659	07
94	7074	223	490	21	6585	243	3415	06
95	7297	222	469	21	6828	243	3172	05
96	7519	222	448	21	7071	243	2929	04
97	7741	222	427	21	7314	243	2686	03
98	7963	222	406	21	7557	243	2443	02
0.1899	8185	222	385	21	7800	243	2200	01
0.1900	9.468407	222	9.980364	21	9.488043	243	10.511957	0.8100

0. 230.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	A
0. 2300	9.548359	180	9.971018	26	9.577341	206	10.422659	0.7
01	8539	180	9.970992	26	7547	206	2453	0.7
02	8719	181	966	26	7753	206	2247	
03	8900	180	940	25	7959	206	2041	
04	9080	180	915	26	8165	206	1835	
05	9260	180	889	26	8371	206	1629	
06	9440	180	863	26	8577	206	1423	
07	9620	180	837	26	8783	206	1217	
08	9800	180	811	26	8989	206	1011	
09	9.549980	180	785	26	9195	205	0805	
0. 2310	9.550160	179	759	25	9400	206	0600	0.7
11	0339	180	734	26	9506	205	0394	
12	0519	179	708	26	9.579811	206	10.420189	
13	0698	180	682	26	9.580017	205	10.419983	
14	0878	179	656	26	0222	205	9778	
15	1057	179	630	26	0427	205	9573	
16	1236	179	604	26	0632	206	9368	
17	1415	179	578	26	0838	205	9163	
18	1594	179	552	26	1043	205	8958	
19	1773	179	526	26	1248	204	8753	
0. 2320	1952	179	500	26	1452	205	8548	0.7
21	2131	179	474	26	1657	205	8343	
22	2310	178	448	26	1862	205	8138	
23	2488	179	422	26	2067	204	7933	
24	2667	178	396	26	2271	205	7729	
0. 2330	9.552845	179	9.970370	27	9.582476	204	10.417524	
26	3024	178	343	26	2680	205	7320	
27	3202	178	317	26	2885	204	7115	
28	3380	178	291	26	3089	204	6911	
29	3558	178	265	26	3293	204	6707	
0. 2330	3736	178	239	26	3497	205	6503	0.7
31	3914	178	213	26	3702	204	6299	
32	4092	178	187	26	3906	204	6095	
33	4270	178	161	27	4110	203	5891	
34	4448	177	134	27	4313	204	5687	
35	4625	178	108	26	4517	204	5483	
36	4803	177	082	26	4721	204	5279	
37	4980	178	056	27	4925	203	5075	
38	5158	177	029	26	5128	204	4872	
39	5335	177	9.970003	26	5332	203	4668	
0. 2340	5512	177	9.969977	26	5535	203	4465	0.7
41	5689	177	951	27	5739	203	4261	
42	5866	177	924	26	5942	203	4058	
43	6043	177	898	26	6145	203	3855	
44	6220	177	872	27	6348	204	3652	
45	6397	177	845	26	6552	203	3449	
46	6574	176	819	26	6755	203	3246	
47	6750	177	793	27	6958	202	3043	
48	6927	176	766	26	7160	203	2840	
49	7103	177	740	26	7363	203	2637	
0. 2350	9.557280	177	9.969714	26	9.587566	203	10.412434	0.7

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	A
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0. 765.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang	Dif.	Log. Cot.	Arc.
2350	9.557280	176	9.969714	27	9.587566	203	10.412434	0.7650
51	7456	176	687	26	7769	202	2231	49
52	7632	176	661	27	7971	203	2029	48
53	7808	176	634	27	8174	203	1826	47
54	7984	176	608	26	8376	202	1624	46
55	8160	176	582	26	8579	203	1421	45
56	8336	176	555	27	8781	202	1219	44
57	8512	176	529	26	8983	202	1017	43
58	8688	176	502	27	9186	203	0814	42
59	8863	175	476	26	9388	202	0612	41
2360	9039	176	449	27	9590	202	0410	0.7640
61	9214	175	423	26	9792	202	0208	39
62	9390	176	396	27	9.589994	202	10.410006	38
63	9565	175	369	27	9.590196	201	10.409805	37
64	9740	175	343	26	0397	202	9603	36
65	9.559915	175	316	27	0599	202	9401	35
66	9.560090	175	290	26	0801	201	9199	34
67	0265	175	263	27	1002	202	8998	33
68	0440	175	237	26	1204	201	8796	32
69	0615	175	210	27	1405	202	8595	31
2370	0790	175	183	27	1607	201	8393	0.7630
71	0965	174	157	26	1808	201	8192	29
72	1139	175	130	27	2009	201	7991	28
73	1314	174	103	27	2210	201	7790	27
74	1488	174	077	26	2411	201	7589	26
75	9.561662	175	050	27	9.592612	201	10.407388	25
76	1837	174	9.969023	26	2813	201	7187	24
77	2011	174	9.968997	27	3014	201	6986	23
78	2185	174	970	27	3215	201	6785	22
79	2359	174	943	27	3416	201	6584	21
2380	2533	174	916	27	3617	200	6383	0.7620
81	2707	174	890	26	3817	201	6183	19
82	2881	173	863	27	4018	200	5982	18
83	3054	174	836	27	4218	201	5782	17
84	3228	174	809	27	4419	201	5581	16
85	3401	173	782	27	4619	200	5381	15
86	3575	174	756	26	4819	200	5181	14
87	3748	173	729	27	5020	201	4981	13
88	3922	174	702	27	5220	200	4780	12
89	4095	173	675	27	5420	200	4580	11
2390	4268	173	648	27	5620	200	4380	0.7610
91	4441	173	621	27	5820	200	4180	09
92	4614	173	594	27	6020	200	3980	08
93	4787	173	567	27	6219	199	3781	07
94	4960	172	540	27	6419	200	3581	06
95	5132	172	514	26	6619	200	3381	05
96	5305	173	487	27	6818	199	3182	04
97	5478	173	460	27	7018	200	2982	03
98	5650	172	433	27	7218	200	2783	02
2400	5822	172	406	27	7417	199	2583	01
2400	9.565995	173	9.968379	27	9.597616	199	10.402384	0.7600

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.2400	9.565995		9.968379		9.597616		10.402384	0.7600
		172		27		200		
01	6167	172	352	27	7816	199	2185	α.7599
02	6339	172	325	27	8015	199	1985	98
03	6511	172	298	27	8214	199	1786	97
04	6683	172	270	28	8413	199	1587	96
05	6855	172	243	27	8612	199	1388	95
		172		27		199		
06	7027	172	216	27	8811	199	1189	94
07	7199	172	189	27	9010	199	990	93
08	7371	172	162	27	9209	199	791	92
09	7542	171	135	27	9407	198	593	91
0.2410	7714	172	108	27	9606	199	394	0.7590
		171		27		199		
11	7885	172	81	27	9.599805	198	10.400195	89
12	8057	171	54	27	9.600003	199	10.399997	88
13	8228	171	9.968026	27	0202	198	9798	87
14	8399	171	9.967999	27	0400	198	9600	86
15	8570	171	972	27	0598	199	9402	85
		172		27		199		
16	8742	171	945	27	0797	198	9203	84
17	8913	171	918	27	0995	198	9005	83
18	9084	171	890	28	1193	198	8807	82
19	9254	170	863	27	1391	198	8609	81
0.2420	9425	171	836	27	1589	198	8411	0.7580
		171		27		198		
21	9596	170	809	28	1787	198	8213	79
22	9766	171	781	27	1985	198	8015	78
23	9.569937	171	754	27	2183	198	7817	77
24	9.570107	170	727	27	2381	198	7619	76
25	0278	171	9.967699	28	9.602578	197	10.397422	75
		170		27		198		
26	0448	170	672	27	2776	198	7224	74
27	0618	170	645	27	2974	197	7027	73
28	0788	170	617	28	3171	197	6829	72
29	0959	171	590	27	3369	198	6632	71
0.2430	1129	170	563	27	3566	197	6434	0.7570
		169		28		197		
31	1298	170	535	27	3763	197	6237	69
32	1468	170	508	27	3960	198	6040	68
33	1638	170	481	27	4158	197	5842	67
34	1808	170	453	28	4355	197	5645	66
35	1977	169	426	27	4552	197	5448	65
		170		28		197		
36	2147	169	398	27	4749	197	5251	64
37	2316	169	371	27	4946	197	5054	63
38	2486	170	343	28	5143	197	4858	62
39	2655	169	316	27	5339	196	4661	61
0.2440	2824	169	288	28	5536	197	4464	0.7560
		169		27		197		
41	2993	170	261	28	5733	196	4267	59
42	3163	168	233	28	5929	196	4071	58
43	3331	169	206	27	6126	197	3874	57
44	3500	169	178	28	6322	196	3678	56
45	3669	169	151	27	6519	197	3481	55
		169		28		196		
46	3838	169	123	28	6715	196	3285	54
47	4007	168	95	27	6911	196	3089	53
48	4175	169	68	27	7108	197	2893	52
49	4344	169	40	28	7304	196	2696	51
0.2450	9.574512	168	9.967013	27	9.607500	196	10.392500	0.7550
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.245.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.2450	9.574512	169	9.967013	28	9.607500	196	10.392500	0.7550
51	4681	168	9.966985	28	7696	196	2304	49
52	4849	168	957	27	7892	196	2108	48
53	5017	168	930	27	8088	196	1912	47
54	5185	168	902	28	8284	196	1717	46
55	5354	169	874	28	8479	195	1521	45
		168		27		196		
56	5522	167	847	28	8675	196	1325	44
57	5689	168	819	28	8871	195	1129	43
58	5857	168	791	28	9066	196	0934	42
59	6025	168	763	28	9262	196	0738	41
λ.2460	6193	167	736	27	9457	195	0543	0.7540
		167		28		196		
61	6360	168	708	28	9653	195	0348	39
62	6528	167	680	28	9.609848	195	10.390152	38
63	6695	168	652	27	9.610043	195	10.389957	37
64	6863	167	625	27	0238	196	9762	36
65	7030	167	597	28	0434	196	9567	35
		167		28		195		
66	7197	168	569	28	0629	195	9372	34
67	7365	167	541	28	0824	195	9177	33
68	7532	167	513	28	1019	194	8982	32
69	7699	167	485	28	1213	195	8787	31
λ.2470	7866	167	457	28	1408	195	8592	0.7530
		167		27		195		
71	8033	166	430	28	1603	195	8397	29
72	8199	167	402	28	1798	194	8202	28
73	8366	167	374	28	1992	195	8008	27
74	8533	166	346	28	2187	194	7813	26
75	9.578699	167	9.966318	28	9.612381	195	10.387619	25
		167		28		195		
76	8866	166	290	28	2576	194	7424	24
77	9032	167	262	28	2770	195	7230	23
78	9199	166	234	28	2965	194	7035	22
79	9365	166	206	28	3159	194	6841	21
λ.2480	9531	166	178	28	3353	194	6647	0.7520
		166		28		194		
81	9697	166	150	28	3547	194	6453	19
82	9.579863	166	122	28	3741	194	6259	18
83	9.580029	166	94	28	3935	194	6065	17
84	0195	166	066	28	4129	194	5871	16
85	0361	166	038	28	4323	194	5677	15
		166		28		194		
86	0527	165	9.966010	28	4517	194	5483	14
87	0692	166	9.965982	28	4711	194	5289	13
88	0858	166	954	29	4905	193	5096	12
89	1024	165	925	28	5098	194	4902	11
λ.2490	1189	165	897	28	5292	194	4708	0.7510
		165		28		193		
91	1354	166	869	28	5485	194	4515	09
92	1520	165	841	28	5679	193	4321	08
93	1685	165	813	28	5872	194	4128	07
94	1850	165	785	28	6066	193	3935	06
95	2015	165	757	29	6259	193	3741	05
		165		29		193		
96	2180	165	728	28	6452	193	3548	04
97	2345	165	700	28	6645	193	3355	03
98	2510	165	672	28	6838	193	3162	02
λ.2499	2675	165	644	28	7031	193	2969	01
λ.2500	9.582840	165	9.965615	29	9.617224	193	10.382776	0.7500
		165		29		193		

0.750.

0. 250.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.2500	9.582840	164	9.965615	28	9.617224	193	10.382776	0.7500
01	3004	165	587	28	7417	193	2583	0.7499
02	3169	164	559	28	7610	193	2390	98
03	3333	165	531	29	7803	193	2197	97
04	3498	164	503	28	7996	192	2004	96
05	3662	165	474	28	8188	193	1812	95
06	3827	164	446	29	8381	193	1619	94
07	3991	164	417	28	8574	192	1427	93
08	4155	164	389	28	8766	192	1234	92
09	4319	164	361	29	8958	193	1042	91
0.2510	4483	164	332	29	9151	192	0849	0.7490
11	4647	164	304	29	9343	192	0657	89
12	4811	164	275	28	9535	193	0465	88
13	4975	163	247	28	9728	192	0272	87
14	5138	164	219	29	9.619920	192	10.380080	86
15	5302	163	190	28	9.620112	192	10.379888	85
16	5465	164	162	29	0304	192	9696	84
17	5629	163	133	28	0496	192	9504	83
18	5792	164	105	29	0688	192	9312	82
19	5956	163	076	28	0880	191	9121	81
0.2520	6119	163	048	29	1071	192	8929	0.7480
21	6282	163	9.965019	28	1263	192	8737	79
22	6445	163	9.964991	29	1455	191	8545	78
23	6608	163	962	28	1646	192	8354	77
24	6771	163	934	29	1838	191	8162	76
25	9.586934	163	905	29	9.622029	192	10.377971	75
26	7097	163	876	28	2221	191	7779	74
27	7260	163	848	29	2412	191	7588	73
28	7423	162	819	28	2603	192	7397	72
29	7585	163	791	29	2795	191	7205	71
0.2530	7748	162	762	29	2986	191	7014	0.7470
31	7910	163	733	28	3177	191	6823	69
32	8073	162	705	29	3368	191	6632	68
33	8235	162	676	29	3559	191	6441	67
34	8397	163	647	28	3750	191	6250	66
35	8560	162	619	29	3941	191	6059	65
36	8722	162	590	29	4132	191	5868	64
37	8884	162	561	28	4323	190	5678	63
38	9046	162	533	29	4513	191	5487	62
39	9208	162	504	29	4704	191	5296	61
0.2540	9370	161	475	29	4895	190	5106	0.7460
41	9531	162	446	28	5085	191	4915	59
42	9693	162	418	29	5276	190	4725	58
43	9.589855	161	389	29	5466	190	4534	57
44	9.590016	162	360	29	5656	191	4344	56
45	0178	161	331	29	5847	190	4153	55
46	0339	161	302	29	6037	190	3963	54
47	0500	162	273	28	6227	190	3773	53
48	0662	161	245	29	6417	190	3588	52
49	0823	161	216	29	6607	190	3393	51
0.2550	9.590984	161	9.964187	29	9.626797	190	10.373203	0.7450
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0. 745.

0. 255.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Log. Tang.	Log. Cot.	Arc.
0.2550	9.590984	161	9.964187	29	9.626797	190	10.373203			0.7456
51	1145	161	158	29	6987	190	3013			49
52	1306	161	129	29	7177	190	2823			48
53	1467	161	100	29	7367	190	2633			47
54	1628	161	071	29	7557	190	2443			46
55	1789	160	042	29	7747	189	2254			45
56	1949	161	9.964013	29	7936	190	2064			44
57	2110	161	9.963984	29	8126	189	1874			43
58	2271	160	955	29	8315	190	1685			42
59	2431	161	926	29	8505	189	1495			41
0.2560	2592	160	897	29	8694	190	1306		0.7440	
61	2752	160	868	29	8884	189	1116			39
62	2912	161	839	29	9073	189	0927			38
63	3073	160	810	29	9262	190	0738			37
64	3233	160	781	29	9452	189	0549			36
65	3393	160	752	29	9641	189	0359			35
66	3553	160	723	29	9.629830	189	10.370170			34
67	3713	160	694	29	9.630019	189	10.369981			33
68	3873	159	665	29	0208	189	9792			32
69	4032	160	636	29	0397	189	9603			31
0.2570	4192	160	607	29	0586	189	9414		0.7430	
71	4352	159	577	29	0775	188	9226			29
72	4511	160	548	29	0963	189	9037			28
73	4671	159	519	29	1152	189	8848			27
74	4830	160	490	29	1341	188	8659			26
75	9.594990	159	9.963461	30	9.631529	189	10.368471			25
76	5149	159	431	29	1718	188	8282			24
77	5308	160	402	29	1906	189	8094			23
78	5468	159	373	29	2095	188	7905			22
79	5627	159	344	29	2283	188	7717			21
0.2580	5786	159	315	29	2471	189	7529		0.7420	
81	5945	159	285	29	2660	188	7341			19
82	6104	158	256	29	2848	188	7152			18
83	6262	159	227	30	3036	188	6964			17
84	6421	159	197	29	3224	188	6776			16
85	6580	159	168	29	3412	188	6588			15
86	6739	158	139	30	3600	188	6400			14
87	6897	159	109	29	3788	188	6212			13
88	7056	158	080	29	3976	188	6024			12
89	7214	158	051	30	4164	187	5837			11
0.2590	7372	159	9.963021	29	4351	188	5649		0.7410	
91	7531	158	9.962992	30	4539	188	5461			09
92	7689	158	962	29	4727	187	5273			08
93	7847	158	933	29	4914	188	5086			07
94	8005	158	904	30	5102	187	4898			06
95	8163	158	874	29	5289	188	4711			05
96	8321	158	845	30	5477	187	4523			04
97	8479	158	815	29	5664	187	4336			03
98	8637	158	786	29	5851	188	4149			02
0.2599	8795	158	756	30	6039	188	3962			01
0.2600	9.598952	157	9.962727	29	9.636226	187	10.363774		0.7400	
Arc.	Log. Sin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Log. Cot.	Log. Tang.	Arc.

0. 740.

o. 260.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Co-	
o. 2600	9.598952	158	9.962727	30	9.636226	187	10.363	
01	9110	157	697	29	6413	187	35	
02	9267	158	668	30	6600	187	34	
03	9425	157	638	30	6787	187	32	
04	9582	158	608	29	6974	187	30	
05	9740	157	579	30	7161	187	2839	
06	9.599897	157	549	29	7348	187	2652	
07	9.600054	157	520	30	7535	186	2466	
08	0211	157	490	30	7721	187	2279	
09	0368	157	460	29	7908	187	2092	
o. 2610	0525	157	431	30	8095	186	1905 a.	
11	0682	157	401	30	8281	187	1719	
12	0839	157	371	29	8468	186	1532	
13	0996	157	342	30	8654	187	1346	
14	1153	156	312	30	8841	186	1159	
15	1309	157	282	29	9027	186	0973	
16	1466	156	253	30	9213	187	0787	
17	1622	157	223	30	9400	186	0600	
18	1779	156	193	30	9586	186	0414	
19	1935	157	163	29	9772	186	0228	
o. 2620	2092	156	134	30	9.639958	186	10.360042 a. 73	
21	2248	156	104	30	9.640144	186	10.359856	
22	2404	156	074	30	0330	186	9670	
23	2560	156	044	30	0516	186	9484	
24	2716	156	9.962014	29	0702	186	9298	
25	9.602872	156	9.961985	30	0888	186	9112	
26	3028	156	955	30	1074	185	8927	
27	3184	156	925	30	1259	186	8741	
28	3340	156	895	30	1445	186	8555	
29	3496	155	865	30	1631	185	8370	
o. 2630	3651	156	835	30	1816	186	8184 a. 73	
31	3807	155	805	30	2002	185	7999	
32	3962	156	775	29	2187	185	7813	
33	4118	155	746	30	2372	186	7628	
34	4273	156	716	30	2558	185	7442	
35	4429	155	686	30	2743	185	7257	
36	4584	155	656	30	2928	185	7072	
37	4739	155	626	30	3113	186	6887	
38	4894	155	596	30	3299	185	6701	
39	5049	155	566	30	3484	185	6516	
o. 2640	5204	155	536	30	3669	185	6331 a. 73	
41	5359	155	506	30	3854	185	6146	
42	5514	155	476	31	4039	184	5962	
43	5669	155	445	30	4223	185	5777	
44	5824	154	415	30	4408	185	5592	
45	5978	155	385	30	4593	185	5407	
46	6133	154	355	30	4778	184	5222	
47	6287	155	325	30	4962	185	5038	
48	6442	154	295	30	5147	185	4853	
49	6596	155	265	30	5332	184	4669	
o. 2650	9.606751	155	9.961235	30	9.645516	184	10.354484 a. 73	
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 735.

	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
50	9.606751	154	9.961235	31	9.645516	184	10.354484	0.7350
51	6905	154	204	30	5700	185	4300	49
52	7059	154	174	30	5885	184	4115	48
53	7213	154	144	30	6069	184	3931	47
54	7367	154	114	30	6253	184	3747	46
55	7521	154	084	30	6438	185	3562	45
56	7675	154	053	31	6622	184	3378	44
57	7829	154	9.961023	30	6806	184	3194	43
58	7983	154	9.960993	30	6990	184	3010	42
59	8137	153	963	31	7174	184	2826	41
60	8290	154	932	30	7358	184	2642	0.7340
61	8444	154	902	30	7542	184	2458	39
62	8598	153	872	31	7726	184	2274	38
63	8751	154	841	30	7910	183	2090	37
64	8905	153	811	30	8093	184	1907	36
65	9058	153	781	31	8277	184	1723	35
66	9211	153	750	30	8461	183	1539	34
67	9364	154	720	30	8644	184	1356	33
68	9518	153	690	31	8828	183	1172	32
69	9671	153	659	30	9011	184	0989	31
2.2670	9824	153	629	31	9195	183	0805	0.7330
71	9.609977	153	598	30	9378	184	0622	29
72	9.610130	152	568	30	9562	183	0438	28
73	0282	153	538	31	9745	183	0255	27
74	0435	153	507	30	9.649928	183	10.350072	26
75	0588	153	9.960477	31	9.650111	183	10.349889	25
76	0741	152	446	30	0294	184	9706	24
77	0893	153	416	31	0478	183	9523	23
78	1046	152	385	30	0661	183	9339	22
79	1198	153	355	31	0844	183	9157	21
2.2680	1351	152	324	30	1027	182	8974	0.7320
81	1503	152	294	31	1209	183	8791	19
82	1655	152	263	31	1392	183	8608	18
83	1807	153	232	30	1575	183	8425	17
84	1960	152	202	31	1758	182	8242	16
85	2112	152	171	30	1940	183	8060	15
86	2264	152	141	31	2123	183	7877	14
87	2416	151	110	31	2306	182	7694	13
88	2567	152	079	30	2488	183	7512	12
89	2719	152	049	31	2671	182	7329	11
2.2690	2871	152	9.960018	31	2853	182	7147	0.7310
91	3023	151	9.959987	30	3035	183	6965	09
92	3174	152	957	31	3218	182	6782	08
93	3326	151	926	31	3400	182	6600	07
94	3477	152	895	31	3582	182	6418	06
95	3629	151	864	30	3764	182	6236	05
96	3780	151	834	31	3946	183	6054	04
97	3931	152	803	31	4129	182	5872	03
98	4083	151	772	31	4311	182	5690	02
2.2699	4234	151	741	30	4493	181	5508	01
2.2700	9.614385	151	9.959711	30	9.654674	181	10.345326	0.7300
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0. 270.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.2700	9.614385	151	9.959711	31	9.654674	182	10.345326	0.7300
01	536	151	680	31	4856	182	5144	0.7299
02	687	151	649	31	5038	182	4962	98
03	838	151	618	31	5220	182	4780	97
04	9.614989	151	587	31	5402	182	4598	96
05	9.615140	150	556	30	5583	181	4417	95
06	290	151	526	31	5765	181	4235	94
07	441	151	495	31	5946	182	4054	93
08	592	150	464	31	6128	181	3872	92
09	742	151	433	31	6309	182	3691	91
0.2710	9.615893	150	402	31	6491	181	3509	0.7299
11	9.616043	151	371	31	6672	182	3328	89
12	194	150	340	31	6854	181	3147	88
13	344	150	309	31	7035	181	2965	87
14	494	150	278	31	7216	181	2784	86
15	644	150	247	31	7397	181	2603	85
16	794	150	216	31	7578	181	2422	84
17	9.616944	150	185	31	7759	181	2241	83
18	9.617094	150	154	31	7940	181	2060	82
19	244	150	123	31	8121	181	1879	81
0.2720	394	150	92	31	8302	181	1698	0.7280
21	544	150	061	31	8483	181	1517	79
22	694	149	9.959030	31	8664	181	1336	78
23	843	150	9.958999	31	8845	180	1155	77
24	9.617993	150	968	31	9025	181	0975	76
25	9.618143	149	937	32	9206	181	0794	75
26	292	149	905	31	9387	180	0613	74
27	441	150	874	31	9567	181	0433	73
28	591	149	843	31	9748	180	0252	72
29	740	148	812	31	9.659928	181	10.340072	71
0.2730	9.618889	150	781	31	9.660109	180	10.339891	0.7270
31	9.619039	149	750	32	0289	180	9711	69
32	188	149	718	31	0469	181	9531	68
33	337	149	687	31	0650	180	9350	67
34	486	149	656	31	0830	180	9170	66
35	635	149	625	31	1010	180	8990	65
36	784	148	593	31	1190	180	8810	64
37	9.619932	149	562	31	1370	180	8630	63
38	9.620081	149	531	31	1550	180	8450	62
39	230	148	500	32	1730	180	8270	61
0.2740	378	149	468	31	1910	180	8090	0.7260
41	527	148	437	31	2090	180	7910	59
42	675	149	406	32	2270	180	7730	58
43	824	148	374	31	2450	179	7550	57
44	9.620972	149	343	32	2629	180	7371	56
45	9.621121	148	311	31	2809	180	7191	55
46	269	148	280	31	2989	179	7011	54
47	417	148	249	32	3168	180	6832	53
48	565	148	217	31	3348	180	6652	52
49	713	148	186	31	3527	179	6473	51
0.2750	9.621861	148	9.958154	32	9.663707	180	10.336293	0.7250
Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0. 275.

0.275.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.2750	9.621861	148	9.958154	31	9.663707	179	10.336293	0.7250
51	9.622009	148	123	32	3886	180	6114	49
52	157	148	091	31	4066	179	5934	48
53	305	148	060	32	4245	179	5755	47
54	453	148	9.958028	32	4424	179	5576	46
55	600	147	9.957997	31	4603	179	5397	45
		148		32		180		
56	748	148	965	31	4783	179	5217	44
57	9.622896	147	934	32	4962	179	5038	43
58	9.623043	148	902	31	5141	179	4859	42
59	191	147	871	32	5320	179	4680	41
0.2760	338	147	839	31	5499	179	4501	0.7240
		147		32		179		
61	485	148	808	32	5678	179	4322	39
62	633	147	776	32	5857	178	4144	38
63	780	147	744	31	6035	179	3965	37
64	9.623927	147	713	32	6214	179	3786	36
65	9.624074	147	681	31	6393	179	3607	35
		147		32		179		
66	221	147	650	32	6572	178	3428	34
67	368	147	618	32	6750	179	3250	33
68	515	147	586	32	6929	178	3071	32
69	662	147	554	31	7107	179	2893	31
0.2770	809	146	523	32	7286	178	2714	0.7230
		147		32		179		
71	9.624955	147	491	32	7464	179	2536	29
72	9.625102	147	459	31	7643	178	2357	28
73	249	146	428	32	7821	178	2179	27
74	395	147	396	32	7999	179	2001	26
75	542	146	9.957364	32	9.668178	178	10.331822	25
		146		32		178		
76	688	147	332	32	8356	178	1644	24
77	835	146	300	31	8534	178	1466	23
78	9.625981	146	269	32	8712	178	1288	22
79	9.626127	146	237	32	8890	178	1110	21
0.2780	273	146	205	32	9068	178	0932	0.7220
		146		32		178		
81	419	146	173	32	9246	178	0754	19
82	565	146	141	32	9424	178	0576	18
83	711	146	109	31	9602	178	0398	17
84	9.626857	146	078	32	9780	178	0220	16
85	9.627003	146	046	32	9.669958	177	10.330042	15
		146		32		177		
86	149	146	9.957014	32	9.670135	178	10.329865	14
87	295	146	9.956982	32	0313	178	9687	13
88	441	145	950	32	0491	178	9509	12
89	586	146	918	32	0668	177	9332	11
0.2790	732	145	886	32	0845	177	9154	0.7210
		145		32		178		
91	9.627877	146	854	32	1023	178	8977	09
92	9.628023	145	822	32	1201	177	8799	08
93	168	146	790	32	1378	178	8622	07
94	314	145	758	32	1556	177	8444	06
95	459	145	726	32	1733	177	8267	05
		145		32		177		
96	604	145	694	32	1910	178	8090	04
97	749	146	662	32	2088	177	7913	03
98	9.628895	145	630	32	2265	177	7735	02
0.2799	9.629040	145	598	32	2442	177	7558	01
0.2800	9.629185	145	9.956566	32	9.672619	177	10.327381	0.7200
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.720.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar.
0.2800	9.629185	145	9.956566	32	9.672619	177	10.327381	0.71
01	330	144	534	33	2796	177	7204	0.71
02	474	145	501	32	2973	177	7027	
03	619	145	469	32	3150	177	6850	
04	764	145	437	32	3327	177	6673	
05	9.629909	144	405	32	3504	177	6496	
06	9.630053	145	373	32	3681	176	6319	
07	198	144	341	33	3857	177	6143	
08	342	145	308	32	4034	177	5966	
09	487	144	276	32	4211	176	5789	
0.2810	631	145	244	32	4387	177	5613	0.71
11	776	144	212	33	4564	177	5436	
12	9.630920	144	179	32	4741	176	5260	
13	9.631064	144	147	32	4917	177	5083	
14	208	145	115	32	5094	176	4907	
15	353	144	083	33	5270	176	4730	
16	497	144	050	32	5446	177	4554	
17	641	144	9.956018	32	5623	176	4377	
18	785	143	9.955986	33	5799	176	4201	
19	9.631928	144	953	32	5975	176	4025	
0.2820	9.632072	144	921	32	6151	176	3849	0.71
21	216	144	889	33	6327	177	3673	
22	360	143	856	32	6504	176	3497	
23	503	144	824	33	6680	176	3320	
24	647	144	791	32	6856	176	3144	
25	791	143	9.955759	32	9.677032	175	10.322969	
26	9.632934	143	727	33	7207	176	2793	
27	9.633077	144	694	32	7383	176	2617	
28	221	143	662	33	7559	176	2441	
29	364	143	629	32	7735	176	2265	
0.2830	507	144	597	32	7911	175	2089	0.71
31	651	143	564	32	8086	176	1914	
32	794	143	532	33	8262	176	1738	
33	9.633937	143	499	32	8438	175	1562	
34	9.634080	143	467	33	8613	176	1387	
35	223	143	434	33	8789	175	1211	
36	366	142	401	32	8964	176	1036	
37	508	143	369	33	9140	175	0861	
38	651	143	336	32	9315	175	0685	
39	794	143	304	33	9490	176	0510	
0.2840	9.634937	142	271	33	9666	175	0335	0.71
41	9.635079	143	238	32	9.679841	175	10.320159	
42	222	142	206	33	9.680016	175	10.319984	
43	364	143	173	33	0191	175	9809	
44	507	142	140	32	0366	175	9634	
45	649	142	108	33	0541	175	9459	
46	791	143	075	33	0716	175	9284	
47	9.635934	142	042	32	0891	175	9109	
48	9.636076	142	9.955010	33	1066	175	8934	
49	218	142	9.954977	33	1241	175	8759	
0.2850	9.636360	142	9.954944	33	9.681416	175	10.318584	0.71
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Ar.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	
o. 2550	9.590984	161	9.964187	29	9.626797	190	10.373203	o
51	1145	161	158	29	6987	190	3013	
52	1306	161	129	29	7177	190	2823	
53	1467	161	100	29	7367	190	2633	
54	1628	161	071	29	7557	190	2443	
55	1789	160	042	29	7747	189	2254	
56	1949	161	9.964013	29	7936	190	2064	
57	2110	161	9.963984	29	8126	189	1874	
58	2271	160	955	29	8315	190	1685	
59	2431	161	926	29	8505	189	1495	
o. 2560	2592	160	897	29	8694	190	1306	o.
61	2752	160	868	29	8884	189	1116	
62	2912	161	839	29	9073	189	0927	
63	3073	160	810	29	9262	190	0738	
64	3233	160	781	29	9452	189	0549	
65	3393	160	752	29	9641	189	0359	
66	3553	160	723	29	9.629830	189	10.370170	
67	3713	160	694	29	9.630019	189	10.369981	
68	3873	159	665	29	0208	189	9792	
69	4032	160	636	29	0397	189	9603	
o. 2570	4192	160	607	30	0586	189	9414	o.
71	4352	159	577	29	0775	188	9226	
72	4511	160	548	29	0963	189	9037	
73	4671	159	519	29	1152	189	8848	
74	4830	160	490	29	1341	188	8659	
75	9.594990	159	9.963461	30	9.631529	189	10.368471	
76	5149	159	431	29	1718	188	8282	
77	5308	160	402	29	1906	189	8094	
78	5468	159	373	29	2095	188	7905	
79	5627	159	344	29	2283	188	7717	
o. 2580	5786	159	315	29	2471	188	7529	o.
81	5945	159	285	29	2660	188	7341	
82	6104	158	256	29	2848	188	7152	
83	6262	159	227	30	3036	188	6964	
84	6421	159	197	29	3224	188	6776	
85	6580	159	168	29	3412	188	6588	
86	6739	158	139	30	3600	188	6400	
87	6897	159	109	29	3788	188	6212	
88	7056	158	080	29	3976	188	6024	
89	7214	158	051	30	4164	187	5837	
o. 2590	7372	159	9.963021	29	4351	188	5649	o.
91	7531	158	9.962992	30	4539	188	5461	
92	7689	158	962	29	4727	187	5273	
93	7847	158	933	29	4914	188	5086	
94	8005	158	904	29	5102	187	4898	
95	8163	158	874	30	5289	188	4711	
96	8321	158	845	30	5477	187	4523	
97	8479	158	815	29	5664	187	4336	
98	8637	158	786	30	5851	188	4149	
2599	8795	157	756	29	6039	187	3962	
2600	9.598952	157	9.962727	29	9.636226	187	10.363774	o.
Arc.	Log. Sin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	

0. 290.

Acc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
0.2900	9.643393	139	9.953290	34	9.690103	173	10.309897
01	532	139	256	33	0276	172	9724
02	671	139	223	34	0448	173	9552
03	810	139	189	33	0621	172	9379
04	9.643949	139	156	34	0793	173	9207
05	9.644088	139	122	33	0966	172	9034
06	227	139	089	34	1138	173	8861
07	366	139	055	33	1311	172	8688
08	505	139	9.953022	34	1483	172	8515
09	644	138	9.952988	33	1655	173	8342
0.2910	782	139	955	34	1828	172	8169
11	9.644921	139	921	33	2000	172	8000
12	9.645060	138	888	34	2172	172	7827
13	198	139	854	33	2344	172	7654
14	337	138	821	34	2516	172	7481
15	475	139	787	34	2688	172	7308
16	614	138	753	33	2860	172	7140
17	752	138	720	34	3032	172	6968
18	9.645890	139	686	34	3204	172	6796
19	9.646029	138	652	33	3376	172	6624
0.2920	167	138	619	34	3548	172	6452
21	305	138	585	34	3720	172	6280
22	443	138	551	33	3892	172	6108
23	581	138	518	34	4063	171	5937
24	719	138	484	34	4235	172	5765
25	857	138	9.952450	34	9.694407	172	10.305593
26	9.646995	137	416	33	4578	172	5422
27	9.647132	138	383	34	4750	171	5250
28	270	138	349	34	4921	172	5079
29	408	137	315	34	5093	171	4907
0.2930	545	138	281	34	5264	172	4736
31	683	138	247	34	5436	171	4564
32	821	137	213	33	5607	171	4393
33	9.647958	137	180	34	5778	172	4222
34	9.648095	138	146	34	5950	171	4050
35	233	137	112	34	6121	171	3879
36	370	137	078	34	6292	171	3708
37	507	138	044	34	6463	172	3537
38	645	137	9.952010	34	6635	171	3366
39	782	137	9.951976	34	6806	171	3195
0.2940	9.648919	137	942	34	6977	171	3023
41	9.649056	137	908	34	7148	171	2852
42	193	137	874	34	7319	170	2682
43	330	137	840	34	7489	171	2511
44	467	136	806	34	7660	171	2340
45	603	137	772	34	7831	171	2169
46	740	137	738	34	8002	171	1998
47	9.649877	137	704	34	8173	170	1827
48	9.650014	136	670	34	8343	171	1657
49	150	136	636	34	8514	171	1486
0.2950	9.650287	137	9.951602	34	9.698685	171	10.301315

0. 705.

Acc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Col.	Dif.	Log. Tang.	Acc.
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0. 295.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
650287	136	9.951602	34	9.698685	170	10.301315	0.7050
423	137	568	34	8855	171	1145	49
560	136	534	34	9026	170	0974	48
696	136	500	34	9196	170	0804	47
832	136	466	34	9367	171	0633	46
650969	137	431	35	9537	170	0463	45
	136		34		171		
651105	136	397	34	9708	170	0292	44
241	136	363	34	9.699878	170	10.300122	43
377	136	329	34	9.700048	171	10.299952	42
513	136	295	34	0219	170	9781	41
649	136	261	34	0389	170	9611	0.7040
	136		35		170		
785	136	226	34	0559	170	9441	39
651921	136	192	34	0729	170	9271	38
652057	136	158	34	0899	170	9101	37
193	136	124	34	1069	170	8931	36
329	136	089	35	1239	170	8761	35
	135		34		170		
464	136	055	34	1409	170	8591	34
600	136	9.951021	35	1579	170	8421	33
736	135	9.950986	34	1749	170	8251	32
652871	136	952	34	1919	170	8081	31
653007	135	918	35	2089	170	7911	0.7030
	135		34		170		
142	135	883	34	2259	170	7741	29
277	136	849	34	2429	169	7571	28
413	135	815	35	2598	170	7402	27
548	135	780	34	2768	170	7232	26
683	135	9.950746	35	9.702938	169	10.297062	25
	136		34		170		
818	136	711	34	3107	170	6893	24
653954	135	677	35	3277	169	6723	23
654089	135	642	34	3446	170	6554	22
224	135	608	35	3616	170	6384	21
359	135	573	35	3785	169	6215	0.7020
	134		34		169		
494	134	539	35	3955	169	6045	19
628	135	504	34	4124	169	5876	18
763	135	470	35	4293	170	5707	17
654898	135	435	34	4463	169	5537	16
655033	134	401	35	4632	169	5368	15
	135		34		169		
167	135	366	34	4801	169	5199	14
302	134	332	35	4970	169	5030	13
436	135	297	35	5139	169	4861	12
571	134	262	34	5308	170	4692	11
705	135	228	35	5478	169	4523	0.7010
	134		34		169		
840	134	193	34	5647	169	4354	09
655974	134	159	35	5816	168	4185	08
656108	135	124	35	5984	169	4016	07
243	134	089	34	6153	169	3847	06
377	134	055	35	6322	169	3678	05
	134		35		169		
511	134	9.950020	35	6491	169	3509	04
645	134	9.949985	35	6660	169	3340	03
779	134	950	34	6829	168	3172	02
656913	134	916	34	6997	168	3003	01
657047	134	9.949881	35	9.707166	169	10.292834	0.7000
Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0. 700.

0. 300.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
0.3000	9.657047	134	9.949881	35	9.707166	169	10.292834
01	181	133	846	35	7335	168	2666
02	314	134	811	34	7503	169	2497
03	448	134	777	35	7672	168	2328
04	582	134	742	35	7840	169	2160
05	716	133	707	35	8009	168	1991
06	849	134	672	35	8177	169	1823
07	9.657983	133	637	35	8346	168	1655
08	9.658116	134	602	34	8514	168	1486
09	250	133	568	35	8682	168	1318
0.3010	383	133	533	35	8850	169	1150
11	516	134	498	35	9019	168	0981
12	650	133	463	35	9187	168	0813
13	783	133	428	35	9355	168	0645
14	9.658916	133	393	35	9523	168	0477
15	9.659049	133	358	35	9691	168	0309
16	182	133	323	35	9.709859	168	10.290141
17	315	133	288	35	9.710027	168	10.28997
18	448	133	253	35	0195	168	980
19	581	133	218	35	0363	168	963
0.3020	714	133	183	35	0531	168	946
21	847	133	148	35	0699	168	930
22	9.659980	133	113	35	0867	168	91
23	9.660113	132	078	35	1035	167	89
24	245	133	043	35	1202	168	87
25	378	132	9.949008	35	9.711370	168	10.2886
26	510	133	9.948973	35	1538	167	84
27	643	132	938	36	1705	168	82
28	775	133	902	35	1873	168	81
29	9.660908	132	867	35	2041	167	79
0.3030	9.661040	132	832	35	2208	168	77
31	172	133	797	35	2376	167	76
32	305	132	762	35	2543	167	74
33	437	132	727	36	2710	168	72
34	569	132	691	36	2878	167	71
35	701	132	656	35	3045	168	69
36	833	132	621	35	3213	167	67
37	9.661965	132	586	35	3380	167	66
38	9.662097	132	550	36	3547	167	64
39	229	132	515	35	3714	167	62
0.3040	361	132	480	35	3881	167	61
41	493	132	444	35	4048	168	59
42	625	131	409	35	4216	167	57
43	756	132	374	36	4383	167	56
44	9.662888	132	338	35	4550	167	54
45	9.663020	131	303	35	4717	166	52
46	151	132	268	36	4883	167	51
47	283	131	232	35	5050	167	49
48	414	131	197	36	5217	167	47
49	545	132	161	35	5384	167	46
0.3050	9.663677	132	9.948126	35	9.715551	167	10.284449
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.

0. 695.

o. 305.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
.6663677	131	9.948126	35	9.715551	167	10.284449	0.6950
808	131	091	36	5718	166	4283	49
.6663939	132	055	35	5884	167	4116	48
.6664071	131	9.948020	36	6051	167	3949	47
202	131	9.947984	35	6218	166	3783	46
333	131	949	36	6384	167	3616	45
464	131	913	35	6551	166	3449	44
595	131	878	36	6717	167	3283	43
726	131	842	35	6884	166	3116	42
857	131	807	36	7050	167	2950	41
.6664988	130	771	36	7217	166	2783	0.6940
.6665118	131	735	35	7383	166	2617	39
249	131	700	36	7549	167	2451	38
380	130	664	35	7716	166	2284	37
510	131	629	36	7882	166	2118	36
641	131	593	36	8048	166	1952	35
772	130	557	35	8214	167	1786	34
.6665902	131	522	36	8381	166	1620	33
.6666033	130	486	36	8547	166	1453	32
163	130	450	35	8713	166	1287	31
293	131	415	36	8879	166	1121	0.6930
424	130	379	36	9045	166	955	29
554	130	343	36	9211	166	789	28
684	130	307	35	9377	166	623	27
814	130	272	36	9543	165	457	26
.6666944	130	9.947236	36	9708	166	292	25
.667074	130	200	36	9.719874	166	10.280126	24
204	130	164	36	9.720040	166	10.279960	23
334	130	128	35	0206	166	9794	22
464	130	93	36	0372	165	9628	21
594	130	57	36	0537	166	9463	0.6920
724	130	9.947021	36	0703	166	9297	19
854	129	9.946985	36	0869	165	9132	18
667983	130	949	36	1034	166	8966	17
668113	130	913	36	1200	165	8800	16
243	129	877	36	1365	166	8635	15
372	130	841	35	1531	165	8469	14
502	129	806	36	1696	166	8304	13
631	130	770	36	1862	165	8139	12
761	129	734	36	2027	165	7973	11
.668890	129	698	36	2192	166	7808	0.6910
.669019	129	662	36	2358	165	7643	09
148	130	626	36	2523	165	7477	08
278	129	590	36	2688	165	7312	07
407	129	554	36	2853	165	7147	06
536	129	518	36	3018	166	6982	05
665	129	482	37	3184	165	6817	04
794	129	445	36	3349	165	6651	03
.669923	129	409	36	3514	165	6486	02
.670052	129	373	36	3679	165	6321	01
.670181	129	9.946337	36	9.723844	165	10.276156	0.6900

g. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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o. 690.

0. 310.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	A.
0.3100	9.670181	128	9.946337	36	9.723844	165	10.276156	0.6890
01	309	129	301	36	4009	165	5991	94
02	438	129	265	36	4174	164	5827	93
03	567	129	229	36	4338	165	5662	92
04	696	128	193	37	4503	165	5497	91
05	824	129	156	36	4668	165	5332	90
06	9.670953	128	120	36	4833	165	5167	89
07	9.671081	129	084	36	4998	164	5003	88
08	210	128	048	36	5162	165	4838	87
09	338	129	9.946012	37	5327	165	4673	86
0.3110	467	128	9.945975	36	5492	164	4509	0.6890
11	595	128	939	36	5656	165	4344	85
12	723	129	903	37	5821	164	4179	84
13	852	128	866	36	5985	165	4014	83
14	9.671980	128	830	36	6150	165	3850	82
15	9.672108	128	794	37	6314	164	3685	81
16	236	128	757	36	6479	164	3520	80
17	364	128	721	36	6643	164	3355	79
18	492	128	685	37	6807	165	3190	78
19	620	128	648	36	6972	164	3025	77
0.3120	748	128	612	36	7136	164	2860	0.6880
21	9.672876	128	576	37	7300	164	2700	76
22	9.673004	127	539	36	7464	165	2536	75
23	131	128	503	37	7629	164	2372	74
24	259	128	466	36	7793	164	2207	73
25	387	127	9.945430	37	9.727957	164	2043	72
26	514	128	393	36	8121	164	1879	71
27	642	127	357	37	8285	164	1715	70
28	769	128	320	36	8449	164	1551	69
29	9.673897	127	284	37	8613	164	1387	68
0.3130	9.674024	128	247	36	8777	164	1223	0.6870
31	152	127	211	37	8941	164	1059	67
32	279	127	174	36	9105	163	0895	66
33	406	127	138	37	9268	164	0732	65
34	533	127	101	36	9432	164	0568	64
35	660	128	065	37	9596	164	0404	63
36	788	127	9.945028	37	9760	163	0240	62
37	9.674915	127	9.944991	36	9.729923	164	10.270073	61
38	9.675042	127	955	37	9.730087	164	10.269913	60
39	169	127	918	37	0251	163	9749	59
0.3140	296	127	881	36	0414	164	9586	0.6860
41	423	126	845	37	0578	163	9422	58
42	549	127	808	37	0741	164	9259	57
43	676	127	771	36	0905	163	9095	56
44	803	127	735	37	1068	164	8932	55
45	9.675930	126	698	37	1232	163	8768	54
46	9.676056	127	661	37	1395	164	8605	53
47	183	126	624	36	1559	163	8442	52
48	309	127	588	37	1722	163	8278	51
49	436	126	551	37	1885	163	8115	50
0.3150	9.676562	126	9.944514	37	9.732048	163	10.267952	0.6850

0. 685.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	A.
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a. 315.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
676562		9.944514	37	9.732048		10.267952	0.6850
689	127	477	37	2212	164	7788	49
815	126	440	37	2375	163	7625	48
676941	126	403	37	2538	163	7462	47
677068	127	367	36	2701	163	7299	46
194	126	330	37	2864	163	7136	45
320	126	293	37	3027	163	6973	44
446	126	256	37	3190	163	6810	43
572	126	219	37	3353	163	6647	42
698	126	182	37	3516	163	6484	41
824	126	145	37	3679	163	6321	0.6840
677950	126	108	37	3842	163	6158	39
678076	126	071	37	4005	163	5995	38
202	126	9.944034	37	4168	163	5832	37
328	125	9.943997	37	4331	162	5670	36
453	126	960	37	4493	163	5507	35
579	126	923	37	4656	163	5344	34
705	125	886	37	4819	162	5181	33
830	126	849	37	4981	163	5019	32
678956	126	812	37	5144	163	4856	31
679082	125	775	37	5307	162	4694	0.6830
207	125	738	37	5469	163	4531	29
332	126	701	37	5632	162	4368	28
458	125	664	37	5794	163	4206	27
583	125	627	38	5957	162	4044	26
708	126	9.943589	37	9.736119	162	10.263881	25
834	125	552	37	6281	163	3719	24
679959	125	515	37	6444	162	3556	23
680084	125	478	37	6606	162	3394	22
209	125	441	38	6768	163	3232	21
334	125	403	37	6931	162	3069	0.6820
459	125	366	37	7093	162	2907	19
584	125	329	37	7255	162	2745	18
709	125	292	37	7417	162	2583	17
834	125	254	38	7579	162	2421	16
680959	124	217	37	7741	162	2259	15
681083	125	180	37	7903	163	2097	14
208	125	143	38	8066	162	1935	13
333	124	105	37	8228	161	1773	12
457	125	068	37	8389	162	1611	11
582	124	9.943031	38	8551	162	1449	0.6810
706	125	9.942993	37	8713	162	1287	09
831	124	956	38	8875	162	1125	08
681955	125	918	37	9037	162	0963	07
682080	124	881	37	9199	162	0801	06
204	124	844	38	9361	161	0640	05
328	125	806	37	9522	162	0478	04
453	124	769	38	9684	162	0316	03
577	124	731	37	9.739846	161	10.260154	02
701	124	694	37	9.740007	162	10.259993	01
682825	124	9.942656	38	9.740169	162	10.259831	0.6800
Log. Sin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

a. 680.

0. 320.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log.
0.3200	9.682825		9.942656		9.740169		10.2
01	9.682949	124	619	37	0331	162	
02	9.683073	124	581	38	0492	161	
03	197	124	544	37	0654	162	
04	321	124	506	38	0815	161	
05	445	124	468	38	0977	162	
06	569	124	431	37	1138	161	
07	693	124	393	38	1299	161	
08	816	123	356	37	1461	162	
09	9.683940	124	318	38	1622	161	
0.3210	9.684064		280	38	1783	161	
11	187	123	243	37	1945	162	
12	311	124	205	38	2106	161	
13	434	123	167	38	2267	161	
14	558	124	130	37	2428	161	
15	681	123	92	38	2589	161	
16	805	124	054	38	2750	161	
17	9.684928	123	9.942017	37	2911	161	
18	9.685051	123	9.941979	38	3072	161	
19	174	123	941	38	3233	161	
0.3220	298	124	903	38	3394	161	
21	421	123	866	37	3555	161	
22	544	123	828	38	3716	161	
23	667	123	790	38	3877	161	
24	790	123	752	38	4038	161	
25	9.685913	123	9.941714	38	9.744199	161	10.25
26	9.686036	123	676	38	4360	160	
27	159	123	638	38	4520	161	
28	282	122	601	37	4681	161	
29	404	122	563	38	4842	161	
0.3230	527	123	525	38	5002	160	
31	650	123	487	38	5163	161	
32	772	122	449	38	5324	161	
33	9.686895	123	411	38	5484	160	
34	9.687018	122	373	38	5645	161	
35	140	122	335	38	5805	160	
36	263	123	297	38	5966	161	
37	385	122	259	38	6126	160	
38	507	122	221	38	6287	161	
39	630	123	183	38	6447	160	
0.3240	752	122	145	38	6607	160	
41	874	122	107	38	6768	161	
42	9.687996	122	069	38	6928	160	
43	9.688119	122	9.941031	39	7088	160	
44	241	122	9.940992	38	7248	160	
45	363	122	954	38	7408	161	
46	485	122	916	38	7569	160	
47	607	122	878	38	7729	160	
48	729	122	840	38	7889	160	
49	851	122	802	38	8049	160	
0.3250	9.688972	121	9.940763	39	9.748209	160	10.25
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. T

0. 675.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
9.650287	136	9.951602	34	9.698685	170	10.301315	0.7050
51 423	137	568	34	8855	171	1145	49
52 560	136	534	34	9026	170	0974	48
53 696	136	500	34	9196	171	0804	47
54 832	136	466	34	9367	171	0633	46
55 9.650969	137	431	35	9537	170	0463	45
56 136	307	397	34	9708	171	0292	44
57 9.651105	136	363	34	9.699878	170	10.300122	43
58 241	136	329	34	9.700048	171	10.299952	42
59 377	136	295	34	0219	171	9781	41
60 513	136	261	34	0389	170	9611	0.7040
61 649	136	226	35	0559	170	9441	39
62 785	136	192	34	0729	170	9271	38
63 9.651921	136	158	34	0899	170	9101	37
64 9.652057	136	124	34	1069	170	8931	36
65 193	136	089	35	1239	170	8761	35
66 329	135	055	34	1409	170	8591	34
67 464	136	9.951021	35	1579	170	8421	33
68 600	136	9.950986	35	1749	170	8251	32
69 736	135	952	34	1919	170	8081	31
70 9.652871	136	918	34	2089	170	7911	0.7030
71 9.653007	135	883	35	2259	170	7741	29
V 1 142	135	849	34	2429	169	7571	28
V 2 277	136	815	34	2598	170	7402	27
V 3 413	135	780	35	2768	170	7232	26
V 4 548	135	9.950746	34	9.702938	170	10.297062	25
V 5 683	135	711	35	3107	169	6893	24
V 6 818	136	677	34	3277	170	6723	23
V 7 9.653954	135	642	35	3446	169	6554	22
V 8 9.654089	135	608	34	3616	170	6384	21
V 9 224	135	573	35	3785	169	6215	0.7020
V 0 359	135	539	34	3955	170	6045	19
8 1 494	134	504	35	4124	169	5876	18
8 2 628	135	470	34	4293	170	5707	17
8 3 763	135	435	35	4463	169	5537	16
8 4 9.654898	135	401	34	4632	169	5368	15
8 5 9.655033	134	366	35	4801	169	5199	14
8 6 167	135	332	34	4970	169	5030	13
8 7 302	134	297	35	5139	169	4861	12
8 8 436	135	262	34	5308	170	4692	11
8 9 571	134	228	35	5478	169	4523	0.7010
9 0 705	135	193	34	5647	169	4354	09
9 1 840	134	159	35	5816	168	4185	08
9 2 9.655974	134	124	35	5984	169	4016	07
9 3 9.656108	135	089	34	6153	169	3847	06
9 4 243	134	055	35	6322	169	3678	05
9 5 377	134	9.950020	35	6491	169	3509	04
9 6 511	134	9.949985	35	6660	169	3340	03
9 7 645	134	950	35	6829	168	3172	02
9 8 779	134	916	34	6997	168	3003	01
9 9 9.656913	134	9.949881	35	9.707166	169	10.292834	0.7000
0.3000 9.657047	134						

0. 300.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.3000	9.657047	134	9.949881	35	9.707166	169	10.292834	0.7000
01	181	133	846	35	7335	168	2666	0.6999
02	314	134	811	34	7503	169	2497	98
03	448	134	777	35	7672	168	2328	97
04	582	134	742	35	7840	169	2160	96
05	716	133	707	35	8009	168	1991	95
06	849	134	672	35	8177	169	1823	94
07	9.657983	133	637	35	8346	168	1655	93
08	9.658116	134	602	34	8514	168	1486	92
09	250	133	568	35	8682	168	1318	91
0.3010	383	133	533	35	8850	169	1150	0.6990
11	516	134	498	35	9019	168	0981	89
12	650	133	463	35	9187	168	0813	88
13	783	133	428	35	9355	168	0645	87
14	9.658916	133	393	35	9523	168	0477	86
15	9.659049	133	358	35	9691	168	0309	85
16	182	133	323	35	9.709859	168	10.290141	84
17	315	133	288	35	9.710027	168	10.289973	83
18	448	133	253	35	0195	168	9805	82
19	581	133	218	35	0363	168	9637	81
0.3020	714	133	183	35	0531	168	9469	0.6980
21	847	133	148	35	0699	168	9301	79
22	9.659980	133	113	35	0867	168	9133	78
23	9.660113	132	078	35	1035	167	8965	77
24	245	133	043	35	1202	168	8798	76
25	378	132	9.949008	35	9.711370	168	10.288630	75
26	510	133	9.948973	35	1538	167	8462	74
27	643	132	938	36	1705	168	8295	73
28	775	133	902	35	1873	168	8127	72
29	9.660908	132	867	35	2041	167	7959	71
0.3030	9.661040	132	832	35	2208	168	7792	0.6970
31	172	133	797	35	2376	167	7624	69
32	305	132	762	35	2543	167	7457	68
33	437	132	727	36	2710	168	7290	67
34	569	132	691	35	2878	167	7122	66
35	701	132	656	35	3045	167	6955	65
36	833	132	621	35	3213	167	6788	64
37	9.661965	132	586	36	3380	167	6620	63
38	9.662097	132	550	35	3547	167	6453	62
39	229	132	515	35	3714	167	6286	61
0.3040	361	132	480	35	3881	167	6119	0.6960
41	493	132	444	35	4048	168	5952	59
42	625	131	409	35	4216	167	5785	58
43	756	132	374	36	4383	167	5618	57
44	9.662888	132	338	35	4550	167	5451	56
45	9.663020	131	303	35	4717	166	5284	55
46	151	132	268	36	4883	167	5117	54
47	283	131	232	35	5050	167	4950	53
48	414	131	197	35	5217	167	4783	52
49	545	132	161	35	5384	167	4616	51
0.3050	9.663677	132	9.948126	36	9.715551	167	10.284449	0.6950

0. 695.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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o. 335.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar.
9.700933	118	9.936872	39	9.764061	157	10.235939	0.6650
9.701051	117	833	40	4218	157	5782	49
168	118	793	40	4375	157	5625	48
286	118	753	39	4532	157	5468	47
403	117	714	40	4689	157	5311	46
520	117	674	40	4846	157	5154	45
637	117	634	39	5003	157	4997	44
755	118	595	40	5160	157	4840	43
872	117	555	40	5317	157	4683	42
9.701989	117	515	40	5474	157	4526	41
9.702106	117	475	39	5631	156	4370	0.6640
223	117	436	40	5787	157	4213	39
340	117	396	40	5944	157	4056	38
457	117	356	40	6101	156	3899	37
574	116	316	40	6257	157	3743	36
690	117	276	40	6414	157	3586	35
807	117	236	39	6571	156	3429	34
9.702924	117	197	40	6727	157	3273	33
9.703041	116	157	40	6884	157	3116	32
157	117	117	40	7041	156	2960	31
274	116	77	40	7197	157	2803	0.6630
390	117	9.936037	40	7354	156	2647	29
507	117	9.935997	40	7510	156	2490	28
624	116	907	40	7666	157	2334	27
740	116	917	40	7823	156	2177	26
856	117	877	40	9.767979	157	2021	25
9.703973	116	837	40	8136	156	1864	24
9.704089	116	797	40	8292	156	1708	23
205	117	757	40	8448	157	1552	22
322	116	717	40	8605	156	1396	21
438	116	677	40	8761	156	1239	0.6620
554	116	637	40	8917	156	1083	19
670	116	597	40	9073	156	927	18
786	116	557	40	9229	157	771	17
9.704902	116	517	40	9386	156	615	16
9.705018	116	477	41	9542	156	458	15
134	116	436	40	9698	156	302	14
250	116	396	40	9.769854	156	10.230146	13
366	116	356	40	9.770010	156	10.229990	12
482	116	316	40	0166	156	934	11
598	115	276	40	0322	156	978	0.6610
713	116	236	41	0478	156	922	09
829	116	195	40	0634	156	9366	08
9.705945	115	155	40	0790	155	9210	07
9.706000	116	115	40	0945	156	9055	06
176	115	075	41	1101	156	8899	05
291	116	9.935034	40	1257	156	8743	04
407	115	9.934994	40	1413	156	8587	03
522	116	954	41	1569	155	8431	02
638	115	913	40	1724	156	8276	01
9.706753	115	9.934873	40	9.771880	156	10.228120	0.6600

o. 660.

o. 340.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
o. 3400	9.706753	115	9.934873	40	9.771880	156	10.228120	0.6600
01	868	115	833	41	2036	155	7964	0.6599
02	9.706984	115	792	40	2191	156	7809	0.6598
03	9.707099	115	752	40	2347	156	7653	0.6597
04	214	115	712	40	2503	155	7497	0.6596
05	329	115	671	40	2658	156	7342	0.6595
06	445	115	631	41	2814	155	7186	0.6594
07	560	115	590	40	2969	156	7031	0.6593
08	675	115	550	40	3125	155	6875	0.6592
09	790	115	509	41	3280	156	6720	0.6591
o. 3410	9.707905	115	469	40	3436	155	6565	0.6590
11	9.708020	115	428	41	3591	156	6409	0.6589
12	134	115	388	40	3747	155	6254	0.6588
13	249	115	347	41	3902	156	6098	0.6587
14	364	115	307	40	4057	155	5943	0.6586
15	479	115	266	41	4213	156	5788	0.6585
16	594	115	226	40	4368	155	5632	0.6584
17	708	115	185	41	4523	156	5477	0.6583
18	823	115	145	40	4678	155	5322	0.6582
19	9.708937	115	104	41	4834	156	5167	0.6581
o. 3420	9.709052	115	063	40	4989	155	5011	0.6580
21	166	115	9.934023	41	5144	156	4856	0.6579
22	281	114	9.933982	40	5299	155	4701	0.6578
23	395	114	941	41	5454	156	4546	0.6577
24	510	114	901	40	5609	155	4391	0.6576
25	624	114	860	41	5764	156	4236	0.6575
26	738	114	819	40	5919	155	4081	0.6574
27	853	114	778	41	6074	156	3926	0.6573
28	9.709967	114	738	40	6229	155	3771	0.6572
29	9.710081	114	697	41	6384	156	3616	0.6571
o. 3430	195	114	656	40	6539	155	3461	0.6570
31	309	114	615	41	6694	156	3306	0.6569
32	423	114	575	40	6849	155	3151	0.6568
33	537	114	534	41	7004	156	2996	0.6567
34	651	114	493	40	7158	155	2842	0.6566
35	765	114	452	41	7313	156	2687	0.6565
36	879	113	411	40	7468	155	2532	0.6564
37	9.710993	113	370	41	7623	156	2377	0.6563
38	9.711107	113	330	40	7777	155	2223	0.6562
39	221	113	289	41	7932	156	2068	0.6561
o. 3440	334	113	248	40	8087	155	1913	0.6560
41	448	113	207	41	8241	156	1759	0.6559
42	562	113	166	40	8396	155	1604	0.6558
43	675	113	125	41	8551	156	1450	0.6557
44	789	113	084	40	8705	155	1295	0.6556
45	9.711902	113	043	41	8860	156	1140	0.6555
46	9.712016	113	9.933002	40	9014	155	0986	0.6554
47	129	113	9.932961	41	9169	156	0831	0.6553
48	243	113	920	40	9323	155	0677	0.6552
49	356	113	879	41	9477	156	0523	0.6551
o. 3450	9.712470	113	9.932838	40	9.779632	155	10.220368	0.6550

o. 655.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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0.315.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
3150	9.676562	127	9.944514	37	9.732048	164	10.267952	0.6850
51	689	126	477	37	2212	163	7788	49
52	815	126	440	37	2375	163	7625	48
53	9.676941	127	403	36	2538	163	7462	47
54	9.677068	126	367	37	2701	163	7299	46
55	194	126	330	37	2864	163	7136	45
56	320	126	293	37	3027	163	6973	44
57	446	126	256	37	3190	163	6810	43
58	572	126	219	37	3353	163	6647	42
59	698	126	182	37	3516	163	6484	41
0.3160	824	126	145	37	3679	163	6321	0.6840
61	9.677950	126	108	37	3842	163	6158	39
62	9.678076	126	71	37	4005	163	5995	38
63	202	126	9.944034	37	4168	163	5832	37
64	328	125	9.943997	37	4331	162	5670	36
65	453	126	960	37	4493	163	5507	35
66	579	126	923	37	4656	163	5344	34
67	705	125	886	37	4819	162	5181	33
68	830	126	849	37	4981	163	5019	32
69	9.678956	126	812	37	5144	163	4856	31
0.3170	9.679082	125	775	37	5307	162	4694	0.6830
71	207	125	738	37	5469	163	4531	29
72	332	126	701	37	5632	162	4368	28
73	458	125	664	37	5794	163	4206	27
74	583	125	627	38	5957	162	4044	26
75	708	126	9.943589	37	9.736119	162	10.263881	25
76	834	125	552	37	6281	163	3719	24
77	9.679959	125	515	37	6444	162	3556	23
78	9.680084	125	478	37	6606	162	3394	22
79	209	125	441	38	6768	163	3232	21
0.3180	334	125	403	37	6931	162	3069	0.6820
81	459	125	366	37	7093	162	2907	19
82	584	125	329	37	7255	162	2745	18
83	709	125	292	38	7417	162	2583	17
84	834	125	254	37	7579	162	2421	16
85	9.680959	124	217	37	7741	162	2259	15
86	9.681083	125	180	37	7903	163	2097	14
87	208	125	143	38	8066	162	1935	13
88	333	124	105	37	8228	161	1773	12
89	457	125	068	37	8389	162	1611	11
0.3190	582	124	9.943031	38	8551	162	1449	0.6810
91	706	125	9.942993	37	8713	162	1287	09
92	831	124	956	38	8875	162	1125	08
93	9.681955	125	918	37	9037	162	0963	07
94	9.682080	124	881	37	9199	162	0801	06
95	204	124	844	38	9361	161	0640	05
96	328	125	806	37	9522	162	0478	04
97	453	124	769	38	9684	162	0316	03
98	577	124	731	37	9.739846	161	10.260154	02
0.3199	701	124	694	37	9.740007	162	10.259903	01
0.3200	9.682825	124	9.942656	38	9.740169	162	10.259831	0.6800

0.680.

Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
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0.350.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
0.3500	9.718085	111	9.930766	42	9.787319	153	10.212681
01	196	112	724	42	7472	154	2528
02	308	111	682	42	7626	153	2375
03	419	111	640	42	7779	153	2221
04	530	111	599	41	7932	153	2068
05	641	111	557	42	8085	153	1915
06	752	111	515	42	8238	153	1762
07	863	111	473	42	8391	153	1609
08	9.718974	111	431	42	8544	153	1456
09	9.719085	111	389	42	8697	152	1304
0.3510	196	111	347	42	8849	153	1151
11	307	111	305	42	9002	153	0998
12	418	111	263	42	9155	153	0845
13	529	111	221	42	9308	153	0692
14	640	111	179	42	9461	153	0539
15	751	111	137	42	9614	152	0387
16	861	110	095	42	9766	153	0234
17	9.719972	111	053	42	9.789919	153	10.210081
18	9.720083	110	9.930011	42	9.790072	152	10.209928
19	193	111	9.929969	42	0224	153	977
0.3520	304	110	927	42	0377	153	962
21	414	111	885	42	0530	152	947
22	525	110	843	42	0682	153	931
23	635	110	800	43	0835	152	916
24	746	111	758	42	0987	153	901
25	856	110	9.929716	42	9.791140	152	10.208860
26	9.720966	111	674	42	1292	153	870
27	9.721077	110	632	42	1445	152	855
28	187	110	590	43	1597	153	840
29	297	110	547	42	1750	152	825
0.3530	407	110	505	42	1902	153	809
31	517	111	463	42	2055	152	794
32	628	110	421	43	2207	152	779
33	738	110	378	42	2359	153	764
34	848	110	336	42	2512	152	748
35	9.721958	110	294	43	2664	152	733
36	9.722067	110	251	42	2816	152	718
37	177	110	209	42	2968	153	703
38	287	110	167	43	3121	152	687
39	397	110	124	42	3273	152	672
0.3540	507	110	082	43	3425	152	657
41	617	109	9.929039	42	3577	152	642
42	726	110	9.928997	42	3729	152	627
43	836	110	955	43	3881	153	611
44	9.722946	110	912	42	4034	152	596
45	9.723055	110	870	43	4186	152	581
46	165	109	827	42	4338	152	566
47	274	110	785	43	4490	152	551
48	384	109	742	42	4642	152	535
49	493	109	700	42	4794	152	520
0.3550	9.723602	109	9.928657	43	9.794946	152	10.205055

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
1.723603	109	9.928657	42	9.794946	151	10.205055	0.6450
712	110	615	43	5097	152	4903	40
822	109	572	43	5249	152	4751	48
1.723931	109	529	42	5401	152	4599	47
1.724040	109	487	43	5553	152	4447	46
149	109	444	42	5705	152	4295	45
258	109	402	43	5857	152	4143	44
367	110	359	43	6009	151	3992	43
477	109	316	43	6160	152	3840	42
586	109	273	43	6312	152	3688	41
695	109	231	42	6464	152	3536	0.6440
804	109	188	43	6615	151	3385	39
1.724913	108	146	43	6767	152	3233	38
1.725021	109	103	43	6919	151	3081	37
130	109	060	43	7070	152	2930	36
239	109	9.928017	43	7222	152	2778	35
348	109	9.927974	42	7373	151	2627	34
457	108	932	43	7525	152	2475	33
565	109	889	43	7677	152	2324	32
674	109	846	43	7828	151	2172	31
783	109	803	43	7980	152	2021	0.6430
891	108	760	43	8131	151	1869	29
1.726000	109	718	42	8282	151	1718	28
1.726108	108	675	43	8434	152	1566	27
217	109	632	43	8585	151	1415	26
325	108	9.927589	43	9.798737	152	10.201264	25
434	109	546	43	8888	151	1112	24
542	108	503	43	9039	151	0961	23
651	109	460	43	9191	152	0810	22
759	108	417	43	9342	151	0658	21
867	108	374	43	9493	151	0507	0.6420
1.726975	108	331	43	9644	151	0356	19
1.727083	109	288	43	9795	151	0205	18
192	108	245	43	9.799947	152	10.200053	17
300	108	202	43	9.800098	151	10.199902	16
408	108	159	43	0249	151	9751	15
516	108	116	43	0400	151	9600	14
624	108	073	43	0551	151	9449	13
732	108	9.927030	43	0702	151	9298	12
840	108	9.926987	44	0853	151	9147	11
1.727948	108	943	43	1004	151	8996	0.6410
1.728056	107	900	43	1155	151	8845	09
163	108	857	43	1306	151	8694	08
271	108	814	43	1457	151	8543	07
379	108	771	43	1608	151	8392	06
487	107	727	43	1759	151	8241	05
594	108	684	43	1910	151	8090	04
702	107	641	43	2061	151	7939	03
809	108	598	43	2212	151	7788	02
1.728917	108	554	43	2363	151	7638	01
1.729024	107	9.926511	43	9.802513	150	10.197487	0.6400
og. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 360.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.3600	9.729024	108	9.926511	43	9.802513	151	10.197487	0.6400
01	132	107	468	43	2664	151	7336	0.6300
02	239	108	425	44	2815	151	7185	97
03	347	107	381	43	2966	150	7035	96
04	454	107	338	43	3116	151	6884	95
05	561	108	295	44	3267	151	6733	94
06	669	107	251	43	3418	150	6582	
07	776	107	208	44	3568	151	6432	
08	883	107	164	43	3719	151	6281	
09	9.729090	108	121	43	3870	150	6131	
0.3610	9.730098	107	078	44	4020	151	5980	0.
11	205	107	9.926034	43	4171	150	5829	9
12	312	107	9.925991	44	4321	151	5678	8
13	419	107	947	43	4472	150	5527	7
14	526	107	904	44	4622	151	5376	6
15	633	107	860	43	4773	150	5225	5
16	740	107	817	44	4923	151	5074	4
17	847	106	773	44	5074	150	4923	3
18	9.730953	107	729	43	5224	150	4772	2
19	9.731060	107	686	44	5374	151	4621	1
0.3620	167	107	642	43	5525	150	4470	
21	274	106	599	44	5675	150	4320	
22	380	107	555	44	5825	151	4170	
23	487	107	511	43	5976	150	4020	
24	594	107	468	44	6126	150	3870	
25	700	106	9.925424	44	9.806276	150	10.193724	
26	807	106	380	43	6426	151	3574	
27	9.731913	107	337	44	6577	150	3424	
28	9.732020	106	293	44	6727	150	3273	
29	126	107	249	43	6877	150	3123	
0.3630	233	106	206	44	7027	150	2973	0.63
31	330	106	162	44	7177	150	2823	
32	443	107	118	44	7327	150	2673	
33	552	106	074	43	7477	150	2523	
34	658	106	9.925031	44	7627	150	2373	
35	764	106	9.924987	44	7777	150	2223	
36	870	106	943	44	7927	150	2073	
37	9.732976	107	899	44	8077	150	1923	
38	9.733083	106	855	44	8227	150	1773	
39	189	106	811	44	8377	150	1623	
0.3640	295	106	767	43	8527	150	1473	0.61
41	401	106	724	44	8677	150	1323	
42	507	106	680	44	8827	150	1173	
43	613	105	636	44	8977	150	1023	
44	718	106	592	44	9127	150	0873	
45	824	106	548	44	9277	149	0724	
46	9.733930	106	504	44	9426	150	0574	
47	9.734036	106	460	44	9576	150	0424	
48	142	105	416	44	9726	150	0274	
49	247	106	372	44	9876	149	10.109124	
0.3650	9.734353	106	9.924328	44	9.810025	149	10.189975	0.61

o. 635.

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
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o. 365.

Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
9.734353		9.924328		9.810025		10.189975	0.6350
459	106	284	44	0175	150	9825	49
564	105	240	44	0325	150	9675	48
670	106	195	45	0474	149	9526	47
775	105	151	44	0624	150	9376	46
881	106	107	44	0774	150	9227	45
	105		44		149		
9734986	106	063	44	0923	150	9077	44
9735092	105	9.924019	44	1073	150	8927	43
197	105	9.923975	44	1222	149	8778	42
302	105	931	44	1372	150	8628	41
408	106	886	45	1521	149	8479	0.6340
	105		44		150		
513	105	842	44	1671	149	8329	39
618	105	798	44	1820	150	8180	38
723	105	754	44	1970	149	8030	37
829	106	710	44	2119	149	7881	36
935	105	665	45	2268	149	7732	35
1040	105		44		150		
1145	105	621	44	2418	149	7582	34
1250	105	577	45	2567	150	7433	33
1355	105	532	45	2717	149	7284	32
1460	105	488	44	2866	149	7134	31
1565	105	444	45	3015	149	6985	0.6330
	105		45		149		
1670	105	399	44	3164	150	6836	29
1775	105	355	44	3314	149	6686	28
1880	104	311	45	3463	149	6537	27
1985	105	266	45	3612	149	6388	26
2090	105	222	44	3761	149	6239	25
2195	105		45		149		
2300	104	177	44	3910	150	6090	24
2405	105	133	45	4060	149	5941	23
2510	105	088	44	4209	149	5791	22
2615	105	9.923044	45	4358	149	5642	21
2720	104	9.922999	45	4507	149	5493	0.6320
2825	105		44		149		
2930	104	955	45	4656	149	5344	19
3035	105	910	44	4805	149	5195	18
3140	105	866	45	4954	149	5046	17
3245	104	821	44	5103	149	4897	16
3350	105	777	44	5252	149	4748	15
3455	104		45		149		
3560	104	732	45	5401	149	4599	4
3665	105	687	44	5550	149	4450	13
3770	105	643	44	5699	149	4301	12
3875	104	598	45	5848	149	4152	11
3980	104	554	44	5997	149	4004	0.6310
4085	104		45		148		
4190	104	509	45	6145	149	3855	09
4295	105	464	44	6294	149	3706	08
4400	105	420	45	6443	149	3557	07
4505	104	375	45	6592	149	3408	06
4610	104	330	45	6741	149	3259	05
4715	104		45		148		
4820	104	285	44	6889	149	3111	04
4925	104	241	45	7038	149	2962	03
5030	104	196	45	7187	149	2813	02
5135	104	151	45	7336	149	2665	01
5240	103		45		148		
5345	9.922106		45	9.817484		10.182516	0.6300
5450							

o. 630.

g. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	A
0.3400	9.706753	115	9.934873	40	9.771880	156	10.228120	0.6
01	868	115	833	41	2036	155	7964	0.6
02	9.706984	115	792	40	2191	156	7809	
03	9.707099	115	752	40	2347	155	7653	
04	214	115	712	41	2503	155	7497	
05	329	115	671	40	2658	156	7342	
06	445	115	631	41	2814	155	7186	
07	560	115	590	40	2969	156	7031	
08	675	115	550	41	3125	155	6875	
09	790	115	509	40	3280	156	6720	
0.3410	9.707905	115	469	41	3436	155	6564	U
11	9.708020	115	428	40	3591	156	6409	
12	134	115	388	41	3747	155	6254	
13	249	115	347	40	3902	155	6098	
14	364	115	307	41	4057	156	5943	
15	479	115	266	40	4213	155	5788	
16	594	115	226	41	4368	155	5632	
17	708	115	185	40	4523	155	5477	
18	823	115	145	41	4678	156	5322	
19	9.708937	115	104	41	4834	155	5167	
0.3420	9.709052	115	063	41	4989	155	5011	C
21	166	115	9.934023	41	5144	155	4856	
22	281	115	9.933982	41	5299	155	4701	
23	395	114	941	40	5454	155	4546	
24	510	114	901	41	5609	155	4391	
25	624	114	860	41	9.775764	155	10.224236	
26	738	114	819	41	5919	155	4081	
27	853	114	778	40	6074	155	3926	
28	9.709967	114	738	41	6229	155	3771	
29	9.710081	114	697	41	6384	155	3616	
0.3430	195	114	656	41	6539	155	3461	O
31	309	114	615	40	6694	155	3306	
32	423	114	575	41	6849	155	3151	
33	537	114	534	41	7004	154	2996	
34	651	114	493	41	7158	155	2842	
35	765	114	452	41	7313	155	2687	
36	879	113	411	41	7468	155	2532	
37	9.710993	113	370	40	7623	154	2377	
38	9.711107	113	330	41	7777	155	2223	
39	221	113	289	41	7932	155	2068	
0.3440	334	113	248	41	8087	154	1913	
41	448	113	207	41	8241	155	1759	
42	562	113	166	41	8396	155	1604	
43	675	113	125	41	8551	154	1450	
44	789	113	084	41	8705	155	129	
45	9.711902	113	043	41	8860	154	114	
46	9.712016	113	9.933002	41	9014	155	098	
47	129	113	9.932961	41	9169	154	08	
48	243	113	920	41	9323	154	06	
49	356	113	879	41	9477	155	05	
0.3450	9.712470	113	9.932838	41	9.779632	155	10.2203	
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Ta	

Arc.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
33750	9.744739	102	9.919846	45	9.824893	147	10.175107	0.6250
51	841	102	801	46	5040	148	4960	49
52	9.744943	102	755	45	5188	148	4812	48
53	9.745045	102	710	46	5336	147	4665	47
54	147	102	664	46	5483	148	4517	46
55	249	102	618	45	5631	147	4369	45
56	351	102	573	46	5778	148	4222	44
57	453	102	527	46	5926	147	4074	43
58	555	101	481	45	6073	148	3927	42
59	656	102	436	46	6221	147	3779	41
0.3760	758	102	390	46	6368	148	3632	0.6240
61	860	102	344	46	6516	147	3484	39
62	9.745962	101	298	45	6663	148	3337	38
63	9.746063	102	253	46	6811	147	3189	37
64	165	102	207	46	6958	148	3042	36
65	267	101	161	46	7106	147	2894	35
66	368	102	115	46	7253	147	2747	34
67	470	101	69	46	7400	148	2600	33
68	571	102	9.919023	45	7548	147	2452	32
69	673	101	9.918978	46	7695	148	2305	31
13770	774	101	932	46	7842	147	2158	0.6230
71	875	102	886	46	7990	148	2010	29
72	9.746977	101	840	46	8137	147	1863	28
73	9.747078	101	794	46	8284	147	1716	27
74	179	102	748	46	8431	148	1569	26
75	281	101	9.918702	46	9.828579	147	10.171421	25
76	382	101	656	46	8726	147	1274	24
77	483	101	610	46	8873	147	1127	23
78	584	101	564	46	9020	147	980	22
79	685	101	518	46	9167	147	833	21
80	786	101	472	46	9314	147	686	0.6220
81	887	101	426	46	9462	148	539	19
82	9.747988	101	380	46	9609	147	391	18
83	9.748089	101	334	46	9756	147	244	17
84	190	101	288	46	9.829903	147	10.170097	16
85	291	101	242	46	9.830050	147	10.169950	15
86	392	101	195	47	0197	147	9803	14
87	493	101	149	46	0344	147	8656	13
88	594	101	103	46	0491	147	7509	12
89	695	100	057	46	0638	147	6362	11
0.3790	795	101	9.918011	47	0785	147	5215	0.6210
91	896	101	9.917964	46	0932	146	4069	09
92	9.748997	100	918	46	1078	147	2922	08
93	9.749097	101	872	46	1225	147	1775	07
94	198	100	826	47	1372	147	628	06
95	298	101	779	46	1519	147	8481	05
96	399	100	733	46	1666	147	8334	04
97	499	101	687	46	1813	146	8187	03
98	600	100	641	47	1959	147	8041	02
0.3799	700	101	594	47	2106	147	7894	01
0.3800	9.749801	101	9.917548	46	9.832253	147	10.167747	0.62
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

Ar.	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar.
0.3800	9.749801	100	9.917548	46	9.832253	147	10.167747	0.62
01	9.749901	100	502	47	400	146	600	0.61
02	9.750001	101	455	46	546	147	454	
03	102	100	409	47	693	147	307	
04	202	100	362	47	840	147	160	
05	302	100	316	46	9.832986	146	10.167014	
		100		47		147		
06	402	101	269	46	9.833133	147	10.166867	
07	503	100	223	47	280	146	720	
08	603	100	176	46	426	147	574	
09	703	100	130	46	573	147	427	
0.3810	803	100	083	47	719	146	281	0.61
		100		46		147		
11	9.750903	100	9.917037	47	9.833866	147	10.166134	
12	9.751003	100	9.916990	46	9.834013	146	10.165988	
13	103	100	944	47	159	147	841	
14	203	100	897	46	306	146	695	
15	303	100	851	47	452	146	548	
		100		47		147		
16	403	99	804	47	599	146	402	
17	502	100	757	46	745	146	255	
18	602	100	711	47	9.834891	147	10.165109	
19	702	100	664	46	9.835038	146	10.164962	
0.3820	802	99	618	47	184	147	816	0.61
		100		47		146		
21	9.751901	100	571	47	331	146	670	
22	9.752001	100	524	47	477	146	523	
23	101	99	477	46	623	147	377	
24	200	100	431	47	770	146	231	
25	300	100	384	47	9.835916	146	10.164084	
		99		47		146		
26	399	100	337	47	9.836062	146	10.163938	
27	499	99	290	46	208	147	792	
28	598	100	244	47	355	146	645	
29	698	99	197	47	501	146	499	
0.3830	797	99	150	47	647	146	353	0.61
		100		47		146		
31	896	100	103	47	793	146	207	
32	9.752996	99	056	47	9.836939	147	10.163061	
33	9.753095	99	9.916009	46	9.837080	146	10.162914	
34	194	99	9.915963	47	232	146	768	
35	293	100	916	47	378	146	622	
		99		47		146		
36	393	99	869	47	524	146	476	
37	492	99	822	47	670	146	330	
38	591	99	775	47	816	146	183	
39	690	99	728	47	9.837962	146	10.162038	
0.3840	789	99	681	47	9.838108	146	10.161892	0.61
		100		47		146		
41	888	99	634	47	254	146	746	5
42	9.753987	99	587	47	400	146	600	5
43	9.754086	99	540	47	546	146	454	5
44	185	99	493	47	692	146	308	5
45	284	99	446	47	838	146	162	5
		99		47		146		
46	383	99	399	47	9.838984	146	10.161016	5
47	482	98	352	48	9.839130	146	10.160870	5
48	580	99	304	47	276	146	724	5
49	679	99	257	47	422	146	578	5
0.3850	9.754778	99	9.915210	47	9.839568	146	10.160432	0.61
		100		47		146		
Ar.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Ar.

o. 385.

	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
	9.754778	98	9.915210	47	9.839568	146	10.160432	0.6150
	876	98	163	47	714	145	287	49
	9.754975	99	116	47	9.839859	146	10.160141	48
	9.755074	99	069	47	9.840005	146	10.159995	47
	172	98	9.915021	48	151	146	849	46
	271	99	9.914974	47	297	145	703	45
	369	98	927	47	442	146	558	44
	468	99	880	47	588	146	412	43
	566	98	832	47	734	146	266	42
	665	99	785	47	9.840880	145	10.159120	41
	763	98	738	47	9.841025	146	10.158975	0.6140
	862	99	691	47	171	146	829	39
	9.755960	98	643	48	317	145	683	38
	9.756058	98	596	47	462	146	538	37
	156	98	549	47	608	146	392	36
	255	99	501	48	754	146	247	35
	353	98	454	47	9.841899	145	10.158101	34
	451	98	406	48	9.842045	145	10.157955	33
	549	98	359	48	190	146	810	32
	647	98	311	48	336	145	664	31
3870	745	98	264	47	481	145	519	0.6130
	843	98	217	47	627	146	373	29
71	9.756941	98	169	47	772	146	228	28
72	9.757039	98	122	47	9.842918	145	10.157082	27
73	137	98	074	48	9.843063	146	10.156937	26
74	235	98	9.914026	48	209	145	791	25
75	333	98	9.913979	47	354	145	646	24
76	431	98	931	48	499	145	501	23
77	529	98	884	47	645	146	355	22
78	626	97	836	48	790	145	210	21
79	724	98	789	47	9.843936	146	10.156065	0.6120
1.3880	822	98	741	48	9.844081	145	10.155919	19
81	9.757919	97	693	48	226	145	774	18
82	9.758017	98	646	47	372	146	629	17
83	115	98	598	48	517	145	483	16
84	212	97	550	48	662	145	338	15
85	310	98	502	48	807	145	193	14
86	407	97	455	47	9.844953	146	10.155048	13
87	505	98	407	48	9.845098	145	10.154902	12
88	602	97	359	48	243	145	757	11
89	700	98	311	48	388	145	612	0.6110
1.3890	797	97	264	47	533	145	467	09
91	894	97	216	48	678	145	322	08
92	9.758992	98	168	48	824	146	176	07
93	9.759089	97	120	48	9.845969	145	10.154031	06
94	186	97	072	48	9.846114	145	10.153886	05
95	283	97	9.913024	48	259	145	741	04
96	381	98	9.912977	47	404	145	596	03
97	478	97	929	48	549	145	451	02
98	575	97	881	48	694	145	306	01
1.3899	9.759672	97	9.912833	48	9.846839	145	10.153161	0.6100
1.3900								

o. 610.

0. 390.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0. 3900	9.759672		9.912833		9.846839		10.153161	0.6100
01	769	97	785	48	9.846984	145	10.153016	0.6099
02	866	97	737	48	9.847129	145	10.152871	98
03	9.759963	97	689	48	274	145	726	97
04	9.760060	97	641	48	419	145	581	96
05	157	97	593	48	564	145	436	95
06	254	97	545	48	709	145	291	94
07	351	97	497	48	854	145	146	93
08	447	96	449	48	9.847999	145	10.152001	92
09	544	97	401	48	9.848144	144	10.151857	91
0. 3910	641	97	353	49	288	145	712	0.6090
11	738	97	304	48	433	145	567	89
12	834	96	256	48	578	145	422	88
13	9.760931	97	208	48	723	145	277	87
14	9.761028	97	160	48	9.848868	144	10.151132	86
15	124	96	112	48	9.849012	145	10.150988	85
16	221	97	64	49	157	145	843	84
17	317	96	9.912015	48	302	145	698	83
18	414	96	9.911967	48	447	144	553	82
19	510	96	919	48	591	145	409	81
0. 3920	607	97	871	49	736	145	264	0.6080
21	703	96	822	48	9.849881	144	10.150119	79
22	799	97	774	48	9.850025	145	10.149973	78
23	896	97	726	48	170	145	830	77
24	9.761992	96	678	49	315	144	685	76
25	9.762088	96	9.911629	48	459	145	541	75
26	185	97	581	49	604	144	396	74
27	281	96	532	48	748	145	252	73
28	377	96	484	48	9.850893	145	10.149107	72
29	473	96	436	48	9.851038	144	10.148963	71
0. 3930	569	96	387	49	182	145	818	0.6070
31	665	96	339	49	327	144	673	69
32	761	96	290	48	471	145	529	68
33	857	96	242	49	616	144	384	67
34	9.762953	96	193	49	760	144	240	66
35	9.763049	96	145	48	9.851905	145	10.148096	65
36	145	96	96	49	9.852049	144	10.147951	64
37	241	96	9.911048	48	193	145	807	63
38	337	96	9.910999	48	338	144	662	62
39	433	96	951	49	482	144	518	61
0. 3940	529	96	902	49	627	145	374	0.6060
41	624	95	854	48	771	144	229	59
42	720	96	805	49	9.852915	145	10.147085	58
43	816	96	756	48	9.853060	144	10.146940	57
44	9.763912	95	708	49	204	144	796	56
45	9.764007	95	659	49	348	145	652	55
46	103	96	610	49	493	144	508	54
47	198	95	562	48	637	144	363	53
48	294	96	513	49	781	144	219	52
49	389	95	464	49	9.853925	144	10.146075	51
0. 3950	9.764485	96	9.910416	48	9.854069	144	10.145931	0.6050

0. 605.

Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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o. 395.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.3950	9.764485	95	9.910416	49	9.854069	145	10.145931	0.6050
51	580	95	367	49	214	144	786	49
52	676	95	318	49	358	144	642	48
53	771	95	269	49	502	144	498	47
54	867	95	220	49	646	144	354	46
55	9.764962	95	172	48	790	144	210	45
56	9.765057	95	123	49	9.854934	144	10.145066	44
57	152	95	074	49	9.855079	145	10.144922	43
58	248	95	9.910025	49	223	144	777	42
59	343	95	9.909976	49	367	144	633	41
0.3960	438	95	927	49	511	144	489	0.6040
61	533	95	878	49	655	144	345	39
62	628	95	829	49	799	144	201	38
63	723	95	780	49	9.855943	144	10.144057	37
64	818	95	731	49	9.856087	144	10.143913	36
65	9.765913	95	682	49	231	144	769	35
66	9.766008	95	633	49	375	144	625	34
67	103	95	584	49	519	144	481	33
68	198	95	535	49	663	144	337	32
69	293	95	486	49	807	144	193	31
0.3970	388	95	437	49	9.856951	144	10.143049	0.6030
71	483	94	388	49	9.857095	144	10.142906	29
72	577	95	339	49	238	143	762	28
73	672	95	290	49	382	144	618	27
74	767	95	241	49	526	144	474	26
75	862	95	192	49	670	144	330	25
76	9.766956	94	143	49	814	144	186	24
77	9.767051	95	093	50	9.857958	144	10.142042	23
78	146	95	9.909044	49	9.858101	143	10.141899	22
79	240	94	9.908995	49	245	144	755	21
0.3980	335	95	946	49	389	144	611	0.6020
81	429	94	896	49	533	144	467	19
82	524	95	847	49	676	143	324	18
83	618	94	798	49	820	144	180	17
84	712	94	749	49	9.858964	144	10.141036	16
85	807	95	699	49	9.859108	144	10.140893	15
86	901	94	650	49	251	143	749	14
87	9.767995	94	601	49	395	144	605	13
88	9.768090	95	551	50	539	144	462	12
89	184	94	502	49	682	143	318	11
0.3990	278	94	453	49	826	144	174	0.6010
91	372	94	403	49	9.859969	143	10.140031	09
92	467	95	354	49	9.860113	144	10.139887	08
93	561	94	304	49	257	143	744	07
94	655	94	255	49	400	144	600	06
95	749	94	205	50	544	144	456	05
96	843	94	156	49	687	143	313	04
97	9.768937	94	106	50	831	144	169	03
98	9.769031	94	057	49	9.860974	143	10.139026	02
0.3999	125	94	9.908007	50	9.861118	144	10.138882	01
0.4000	9.769219	94	9.907958	49	9.861261	143	10.138739	0.6000
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 600.

a. 375.

	Log. Sin.	Dif.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
750	9.744739	102	9.919846	45	9.824893	147	10.175107	0.6250
51	841	102	801	46	5040	148	4960	49
52	9.744943	102	755	45	5188	148	4812	48
53	9.745045	102	710	46	5336	147	4665	47
54	147	102	664	46	5483	148	4517	46
55	249	102	618	45	5631	147	4369	45
56	351	102	573	46	5778	148	4222	44
57	453	102	527	46	5926	147	4074	43
58	555	101	481	45	6073	148	3927	42
59	656	102	436	46	6221	147	3779	41
a.3760	758	102	390	46	6368	148	3632	0.6240
61	860	102	344	46	6516	147	3484	39
62	9.745062	101	298	45	6663	148	3337	38
63	9.746063	102	253	46	6811	147	3189	37
64	165	102	207	46	6958	148	3042	36
65	267	101	161	46	7106	147	2894	35
66	368	102	115	46	7253	148	2747	34
67	470	101	69	46	7400	147	2600	33
68	571	102	9.919023	45	7548	148	2452	32
69	673	101	9.918978	46	7695	147	2305	31
a.3770	774	101	932	46	7842	148	2158	0.6230
71	875	102	886	46	7990	147	2010	29
72	9.746977	101	840	46	8137	148	1863	28
73	9.747078	101	794	46	8284	147	1716	27
74	179	102	748	46	8431	148	1569	26
75	281	101	9.918702	46	9.828579	147	10.171421	25
76	382	101	656	46	8726	148	1274	24
77	483	101	610	46	8873	147	1127	23
78	584	101	564	46	9020	148	980	22
79	685	101	518	46	9167	147	833	21
a.3780	786	101	472	46	9314	148	686	0.6220
81	887	101	426	46	9462	147	539	19
82	9.747988	101	380	46	9609	148	391	18
83	9.748089	101	334	46	9756	147	244	17
84	190	101	288	46	9.829903	148	10.170097	16
85	291	101	242	47	9.830050	147	10.169950	15
86	392	101	195	46	0197	148	9803	14
87	493	101	149	46	0344	147	9656	13
88	594	101	103	46	0491	148	9509	12
89	695	100	057	46	0638	147	9362	11
a.3790	795	101	9.918011	46	0785	148	9215	0.6210
91	896	101	9.917964	46	0932	147	9069	09
92	9.748997	100	918	46	1078	148	8922	08
93	9.749097	101	872	46	1225	147	8775	07
94	198	100	826	47	1372	148	8628	06
95	298	101	779	46	1519	147	8481	05
96	399	100	733	46	1666	148	8334	04
97	499	101	687	46	1813	147	8187	03
98	600	100	641	46	1959	148	8041	02
a.3799	700	101	594	47	2106	147	7894	01
a.3800	9.749801	101	9.917548	46	9.832253	148	10.167747	0.6200
Arc.	Log. Cosin.	Dif.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 410.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	A
0.4100	9.778455		9.902919		9.875537		10.124464	0.5
01	546	91	868	51	679	142	321	0.5
02	637	91	816	51	821	142	179	
03	728	91	765	51	9.875963	142	10.124037	
04	819	91	714	51	9.876105	142	10.123895	
05	909	90	663	51	247	142	753	
		91		52		142		
06	9.779000	91	611	51	389	142	611	
07	9.779091	90	560	51	531	142	469	
08	181	91	509	52	673	142	327	
09	272	91	457	52	815	142	185	
0.4110	362	90	406	51	9.876957	142	10.123043	0.5
		91		52		142		
11	453	91	354	51	9.877099	142	10.122901	
12	544	91	303	51	241	142	759	
13	634	90	252	51	383	142	618	
14	724	90	200	52	524	141	476	
15	815	91	149	51	666	142	334	
		90		52		142		
16	905	91	97	51	808	142	192	
17	9.779996	90	9.902046	52	9.877950	142	10.122050	
18	9.780086	90	9.901994	52	9.878092	142	10.121908	
19	176	90	943	51	234	142	766	
0.4120	267	91	891	52	376	142	624	0.5
		90		52		141		
21	357	90	839	51	517	142	483	
22	447	90	788	52	659	142	341	
23	537	90	736	52	801	142	199	
24	627	90	685	51	9.878943	142	10.121057	
25	718	91	633	52	9.879085	142	10.120916	
		90		52		141		
26	808	90	581	51	226	142	774	
27	898	90	530	52	368	142	632	
28	9.780988	90	478	52	510	142	490	
29	9.781078	90	426	52	652	142	349	
0.4130	168	90	375	51	793	141	207	0.5
		90		52		142		
31	258	90	323	52	9.879935	142	10.120065	
32	348	90	271	52	9.880077	142	10.119924	
33	438	90	219	52	218	141	782	
34	527	89	168	51	360	142	640	
35	617	90	116	52	502	142	499	
		90		52		141		
36	707	90	64	52	643	142	357	
37	797	90	9.901012	52	785	142	215	
38	887	90	9.900960	52	9.880926	142	10.119074	
39	9.781976	89	908	52	9.881068	142	10.118932	
0.4140	9.782066	90	857	51	210	142	791	0.5
		90		52		141		
41	156	89	805	52	351	142	649	
42	245	90	753	52	493	141	507	
43	335	90	701	52	634	142	366	
44	425	90	649	52	776	142	224	
45	514	89	597	52	9.881917	142	10.118083	
		90		52		141		
46	604	89	545	52	9.882059	141	10.117941	
47	693	90	493	52	200	142	800	
48	783	90	441	52	342	141	658	
49	872	89	389	52	483	141	517	
0.4150	9.782961	89	9.900337	52	9.882625	142	10.117375	0.5
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	A

o. 585.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4150	9.782961	90	9.900337	52	9.882625	141	10.117375	0.5850
51	9.783051	89	285	52	766	142	234	49
52	140	89	233	52	9.882908	141	10.117093	48
53	229	89	181	52	9.883049	141	10.116951	47
54	319	90	128	53	190	142	810	46
55	408	89	076	52	332	141	668	45
56	497	89	9.900024	52	473	142	527	44
57	586	90	9.899972	52	615	141	386	43
58	676	89	920	52	756	141	244	42
59	765	89	868	52	9.883897	142	10.116103	41
0.4160	854	89	815	53	9.884039	141	10.115962	0.5840
61	9.783943	89	763	52	180	141	820	39
62	9.784032	89	711	52	321	142	679	38
63	121	89	659	52	463	141	538	37
64	210	89	606	53	604	141	396	36
65	299	89	554	52	745	141	255	35
66	388	89	502	52	9.884886	142	10.115114	34
67	477	89	449	53	9.885028	141	10.114972	33
68	566	89	397	52	169	141	831	32
69	655	88	345	52	310	141	690	31
0.4170	743	89	292	53	451	141	549	0.5830
71	832	89	240	52	592	142	408	29
72	9.784921	89	187	53	734	141	266	28
73	9.785010	88	135	52	9.885875	141	10.114125	27
74	098	89	082	53	9.886016	141	10.113984	26
75	187	89	9.899030	52	157	141	843	25
76	276	88	9.898977	52	298	141	702	24
77	364	89	925	53	439	142	561	23
78	453	88	872	52	581	141	419	22
79	541	89	820	52	722	141	278	21
0.4180	630	89	767	53	9.886863	141	10.113137	0.5820
81	719	89	715	52	9.887004	141	10.112996	19
82	807	88	662	53	145	141	855	18
83	895	89	609	52	286	141	714	17
84	9.785984	88	557	53	427	141	573	16
85	9.786072	89	504	52	568	141	432	15
86	161	88	451	52	709	141	291	14
87	249	88	399	53	850	141	150	13
88	337	88	346	53	9.887991	141	10.112009	12
89	426	88	293	52	9.888132	141	10.111868	11
0.4190	514	88	241	53	273	141	727	0.5810
91	602	88	188	52	414	141	586	09
92	690	88	135	53	555	141	445	08
93	778	88	082	52	696	141	304	07
94	866	88	9.898030	53	837	141	163	06
95	9.786955	89	9.897977	52	9.888978	141	10.111022	05
96	9.787043	88	924	53	9.889119	141	10.110881	04
97	131	88	871	53	260	141	740	03
98	219	88	818	53	401	141	599	02
0.4199	307	88	765	52	542	141	459	01
0.4200	9.787395	88	9.897712	53	9.889682	140	10.110318	0.5800

o. 420.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4200	9.787395	88	9.897712	53	9.889682	141	10.110318	0.5800
01	483	88	659	53	823	141	177	0.5799
02	571	87	606	52	9.889964	141	10.110036	98
03	658	88	551	53	9.890105	141	10.109895	97
04	746	88	501	53	246	141	734	96
05	834	88	448	53	387	141	614	95
06	9.787922	88	395	53	527	141	473	94
07	9.788010	87	342	54	668	141	332	93
08	097	88	288	53	809	141	191	92
09	185	88	235	53	9.890950	140	10.109050	91
0.4210	273	87	182	53	9.891090	141	10.108910	0.5790
11	360	88	129	53	231	141	769	89
12	448	88	076	53	372	141	628	88
13	536	87	9.897023	53	513	140	487	87
14	623	88	9.896970	53	653	141	347	86
15	711	87	917	54	794	141	206	85
16	798	88	863	53	9.891935	140	10.108065	84
17	886	87	810	53	9.892075	141	10.107925	83
18	9.788973	88	757	53	216	141	784	82
19	9.789061	87	704	53	357	140	643	81
0.4220	148	87	651	54	497	141	503	0.5780
21	235	88	597	53	638	141	362	79
22	323	87	544	53	779	140	221	78
23	410	87	491	54	9.892919	141	10.107081	77
24	497	87	437	53	9.893060	140	10.106940	76
25	584	88	9.896384	53	200	141	800	75
26	672	87	331	54	341	141	659	74
27	759	87	277	53	482	140	518	73
28	846	87	224	53	622	141	378	72
29	9.789933	87	171	54	763	140	237	71
0.4230	9.790020	87	117	53	9.893903	141	10.106097	0.5770
31	107	87	064	54	9.894044	140	10.105956	69
32	194	87	9.896010	53	184	141	816	68
33	281	87	9.895957	54	325	140	675	67
34	368	87	903	53	465	141	535	66
35	455	87	850	54	606	140	394	65
36	542	87	796	53	746	141	254	64
37	629	87	743	54	9.894887	140	10.105113	63
38	716	87	689	53	9.895027	141	10.104973	62
39	803	87	636	54	168	140	833	61
0.4240	890	87	582	54	308	140	692	0.5760
41	9.790977	86	528	53	448	141	552	59
42	9.791063	87	475	54	589	140	411	58
43	150	87	421	53	729	141	271	57
44	237	87	367	54	9.895870	140	10.104131	56
45	324	85	314	54	9.896010	140	10.103990	55
46	410	87	260	54	150	141	850	54
47	497	86	206	53	291	140	709	53
48	583	87	153	54	431	140	569	52
49	670	87	099	54	571	140	429	51
0.4250	9.791757	87	9.895045	54	9.896712	141	10.103288	0.5750
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 575.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log.
0.3950	9.764485	95	9.910416	49	9.854069	145	10.1.
51	580	95	367	49	214	144	
52	676	95	318	49	358	144	
53	771	95	269	49	502	144	
54	867	95	220	49	646	144	
55	9.764962	95	172	48	790	144	
56	9.765057	95	123	49	9.854934	144	10.145
57	152	95	074	49	9.855079	144	10.144
58	248	95	9.910025	49	223	144	
59	343	95	9.909976	49	367	144	
0.3960	438	95	927	49	511	144	4
61	533	95	878	49	655	144	3.
62	628	95	829	49	799	144	20
63	723	95	780	49	9.855943	144	10.14405
64	818	95	731	49	9.856087	144	10.14391
65	9.765913	95	682	49	231	144	76.
66	9.766008	95	633	49	375	144	62.
67	103	95	584	49	519	144	481
68	198	95	535	49	663	144	337
69	293	95	486	49	807	144	193
0.3970	388	95	437	49	9.856951	144	10.143049
71	483	95	388	49	9.857095	144	10.142906
72	577	94	339	49	238	143	762
73	672	95	290	49	382	144	618
74	767	95	241	49	526	144	474
75	862	95	192	49	670	144	330
76	9.766956	95	143	49	814	144	186
77	9.767051	95	093	50	9.857958	144	10.142042
78	146	95	9.909044	49	9.858101	143	10.141899
79	240	95	9.908995	49	245	144	755
0.3980	335	95	946	49	389	144	611 0.6
81	429	94	896	50	533	144	467
82	524	95	847	49	676	143	324
83	618	94	798	49	820	144	180
84	712	94	749	49	9.858964	144	10.141036
85	807	95	699	50	9.859108	144	10.140893
86	901	94	650	49	251	143	749
87	9.767995	94	601	49	395	144	605
88	9.768090	95	551	50	539	144	462
89	184	94	502	49	682	143	318
0.3990	278	94	453	49	826	144	174 0.6
91	372	94	403	50	9.859969	143	10.140031
92	467	95	354	49	9.860113	144	10.139887
93	561	94	304	50	257	144	744
94	655	94	255	49	400	143	600
95	749	94	205	50	544	144	456
96	843	94	156	49	687	143	313
97	9.768937	94	106	50	831	144	169
98	9.769031	94	057	49	9.860974	143	10.139026
0.3999	125	94	9.908007	50	9.861118	144	10.138882
0.4000	9.769219	94	9.907958	49	9.861261	143	10.138739 0.6
Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Cot.	Dif.	Log. Tang.

o. 400.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4000	9.769219		9.907958		9.861261		10.138739	0.6000
01	313	94	908	50	405	144	596	0.5999
02	406	93	859	49	548	143	452	98
03	500	94	809	50	691	143	309	97
04	594	94	759	50	835	144	165	96
05	688	94	710	49	9.861978	143	10.138022	95
		94		50		144		
06	782	93	660	50	9.862122	143	10.137879	94
07	875	93	610	50	265	143	735	93
08	9.769969	94	561	49	408	143	592	92
09	9.770063	94	511	50	552	144	448	91
0.4010	156	93	461	50	695	143	305	0.5990
		94		49		143		
11	250	93	412	50	838	144	162	89
12	343	93	362	50	9.862982	143	10.137019	88
13	437	94	312	50	9.863125	143	10.136875	87
14	530	93	262	50	268	143	732	86
15	624	94	212	50	411	143	589	85
		93		49		144		
16	717	93	163	50	555	143	446	84
17	810	93	113	50	698	143	302	83
18	904	93	063	50	841	143	159	82
19	9.770997	93	9.907013	50	9.863984	143	10.136016	81
0.4020	9.771090	93	9.906963	50	9.864127	143	10.135873	0.5980
		93		50		144		
21	184	93	913	50	271	143	730	79
22	277	93	863	50	414	143	586	78
23	370	93	813	50	557	143	443	77
24	463	93	763	50	700	143	300	76
25	556	93	9.906713	50	843	143	157	75
		93		50		143		
26	650	93	663	50	9.864986	143	10.135014	74
27	743	93	613	50	9.865129	143	10.134871	73
28	836	93	563	50	272	143	728	72
29	9.771929	93	513	50	415	143	585	71
0.4030	9.772022	93	463	50	558	143	442	0.5970
		93		50		143		
31	115	93	413	50	701	143	299	69
32	208	93	363	50	844	143	156	68
33	300	92	313	50	9.865987	143	10.134013	67
34	393	93	263	50	9.866130	143	10.133870	66
35	486	93	213	50	273	143	727	65
		93		50		143		
36	579	93	163	50	416	143	584	64
37	672	93	113	50	559	143	441	63
38	764	92	062	51	702	143	298	62
39	857	93	9.906012	50	845	143	155	61
0.4040	9.772950	93	9.905962	50	9.866988	143	10.133012	0.5960
		93		50		143		
41	9.773043	92	912	50	9.867131	143	10.132869	59
42	135	93	862	51	274	143	726	58
43	228	93	811	50	417	143	584	57
44	320	92	761	50	559	142	441	56
45	413	93	711	50	702	143	298	55
		92		51		143		
46	505	93	660	50	845	143	155	54
47	598	93	610	50	9.867988	143	10.132012	53
48	690	92	560	50	9.868131	143	10.131870	52
49	783	93	509	51	273	142	727	51
0.4050	9.773875	92	9.905459	50	9.868416	143	10.131584	0.5950
		92		50		143		

o. 595.

Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
	9.773875	92	9.905459	50	9.868416	143	10.131584	0.5950
1	9.773967	93	409	51	559	143	441	49
2	9.774060	92	358	50	702	142	299	48
3	152	92	308	50	844	143	156	47
4	244	92	257	50	9.868987	143	10.131013	46
5	336	92	207	50	9.869130	142	10.130870	45
6	429	93	156	50	272	143	728	44
7	521	92	106	50	415	143	585	43
8	613	92	055	50	558	142	442	42
9	705	92	9.905005	50	700	143	300	41
0	797	92	9.904954	50	843	142	157	0.5940
1	889	92	904	51	9.869985	143	10.130015	39
2	9.774981	92	853	50	9.870128	143	10.129872	38
3	9.775073	92	803	50	271	142	729	37
4	165	92	752	51	413	143	587	36
5	257	92	701	50	556	142	444	35
6	349	92	651	51	698	143	302	34
7	441	92	600	50	841	142	159	33
8	533	92	549	50	9.870983	143	10.129017	32
9	624	91	499	50	9.871126	142	10.128874	31
0	716	92	448	51	268	143	732	0.5930
1	808	92	397	51	411	142	589	29
2	900	92	346	50	553	143	447	28
3	9.775991	91	296	51	696	142	304	27
4	9.776083	92	245	51	838	143	162	26
5	175	92	194	51	9.871981	142	10.128020	25
6	266	91	143	51	9.872123	142	10.127877	24
7	358	92	092	50	265	143	735	23
8	449	91	9.904042	51	408	142	592	22
9	541	92	9.903991	51	550	142	450	21
0	632	91	940	51	692	143	308	0.5920
1	724	91	889	51	835	142	165	19
2	816	91	838	51	9.872977	142	10.127023	18
3	906	91	787	51	9.873119	143	10.126881	17
4	9.776998	92	736	51	262	142	738	16
5	9.777089	91	685	51	404	142	596	15
6	180	91	634	51	546	142	454	14
7	272	92	583	51	688	143	312	13
8	363	91	532	51	831	142	169	12
9	454	91	481	51	9.873973	142	10.126027	11
0.4090	545	91	430	51	9.874115	142	10.125885	0.5910
1	636	91	379	51	257	143	743	09
2	728	92	328	51	400	142	601	08
3	819	91	277	51	542	142	458	07
4	9.777910	91	226	51	684	142	316	06
5	9.778001	91	175	51	826	142	174	05
6	092	91	124	52	9.874968	142	10.125032	04
7	183	91	072	51	9.875110	142	10.124890	03
8	274	90	9.903021	51	252	143	748	02
9	364	90	9.902970	51	395	142	606	01
0.4099	9.778455	91	9.902919	51	9.875537	142	10.124464	0.5900
0.4100								
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 410.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4100	9.778455		9.902919		9.875537		10.124464	0.5900
01	546	91	868	51	679	142	321	0.5899
02	637	91	816	51	821	142	179	98
03	728	91	765	51	9.875963	142	10.124037	97
04	819	91	714	51	9.876105	142	10.123895	96
05	909	90	663	51	247	142	753	95
		91		52		142		
06	9.779000	91	611	51	389	142	611	94
07	9.779091	90	560	51	531	142	469	93
08	181	91	509	52	673	142	327	92
09	272	90	457	51	815	142	185	91
0.4110	362	90	406	51	9.876957	142	10.123043	0.5890
		91		52		142		
11	453	91	354	51	9.877099	142	10.122901	89
12	544	91	303	51	241	142	759	88
13	634	90	252	51	383	142	618	87
14	724	90	200	52	524	141	476	86
15	815	91	149	51	666	142	334	85
		90		52		142		
16	905	91	97	51	808	142	192	84
17	9.779996	90	9.902046	52	9.877950	142	10.122050	83
18	9.780086	90	9.901994	51	9.878092	142	10.121908	82
19	176	90	943	51	234	142	766	81
0.4120	267	91	891	52	376	142	624	0.5880
		90		52		141		
21	357	90	839	51	517	142	483	79
22	447	90	788	52	659	142	341	78
23	537	90	736	52	801	142	199	77
24	627	90	685	51	9.878943	142	10.121057	76
25	718	91	633	52	9.879085	142	10.120916	75
		90		52		141		
26	808	90	581	51	226	142	774	74
27	898	90	530	51	368	142	632	73
28	9.780988	90	478	52	510	142	490	72
29	9.781078	90	426	52	652	142	349	71
0.4130	168	90	375	51	793	141	207	0.5870
		90		52		142		
31	258	90	323	52	9.879935	142	10.120065	69
32	348	90	271	52	9.880077	141	10.119924	68
33	438	90	219	52	218	142	782	67
34	527	89	168	51	360	142	640	66
35	617	90	116	52	502	142	499	65
		90		52		141		
36	707	90	64	52	643	142	357	64
37	797	90	9.901012	52	785	141	215	63
38	887	90	9.900960	52	9.880926	142	10.119074	62
39	9.781976	89	908	52	9.881068	142	10.118932	61
0.4140	9.782066	90	857	51	210	142	791	0.5860
		90		52		141		
41	156	89	805	52	351	142	649	59
42	245	90	753	52	493	141	507	58
43	335	90	701	52	634	142	366	57
44	425	90	649	52	776	142	224	56
45	514	89	597	52	9.881917	141	10.118083	55
		90		52		142		
46	604	89	545	52	9.882059	141	10.117941	54
47	693	90	493	52	200	142	800	53
48	783	90	441	52	342	141	658	52
49	872	89	389	52	483	141	517	51
0.4150	9.782961	89	9.900337	52	9.882625	142	10.117375	0.5850
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 585.

Are.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.
0.4150	9.782961		9.900337		9.882625	141	10.1173
1	9.783051	90	285	52	766	142	
2	140	89	233	52	9.882908	141	10.1170
3	229	90	181	53	9.883049	141	10.1169
4	319	89	128	52	190	142	
5	408	89	076	52	332	141	
6		89		52		141	
7	497	89	9.900024	52	473	142	
8	586	90	9.899972	52	615	141	
9	676	89	920	52	756	141	
0	765	89	868	53	9.883897	142	10.1161
1	854	89	815	53	9.884039	141	10.1159
2		89		52		141	
3	9.783943	89	763	52	180	141	
4	9.784032	89	711	52	321	142	
5	121	89	659	53	463	141	
6	210	89	606	52	604	141	
7	299	89	554	52	745	141	
8		89		52		141	
9	388	89	502	53	9.884886	142	10.1151
0	477	89	449	52	9.885028	141	10.1149
1	566	89	397	52	169	141	
2	655	88	345	53	310	141	
3	743	89	292	52	451	141	
4		89		52		141	
5	832	89	240	53	592	142	
6	9.784921	89	187	52	734	141	
7	9.785010	88	135	53	9.885875	141	10.1141
8	098	89	082	52	9.886016	141	10.1139
9	187	89	9.899030	53	157	141	
0		88		52		141	
1	276	88	9.898977	52	298	141	
2	364	89	925	53	439	142	
3	453	88	872	52	581	141	
4	541	89	820	53	722	141	
5	630	89	767	52	9.886863	141	10.1131
6		89		52		141	
7	719	89	715	53	9.887004	141	10.1129
8	807	88	662	53	145	141	
9	895	89	609	52	286	141	
0	9.785984	88	557	53	427	141	
1	9.786072	89	504	53	568	141	
2		88		52		141	
3	161	88	451	52	709	141	
4	249	88	399	53	850	141	
5	337	89	346	52	9.887991	141	10.1126
6	426	88	293	53	9.888132	141	10.1118
7	514	88	241	52	273	141	
8		88		53		141	
9	602	88	188	53	414	141	
0	690	88	135	53	555	141	
1	778	88	082	52	696	141	
2	866	89	9.898030	53	837	141	
3	9.786955	88	9.897977	53	9.888978	141	10.1116
4		88		52		141	
5	9.787043	88	924	53	9.889119	141	10.1108
6	131	88	871	53	260	141	
7	219	88	818	53	401	141	
8	307	88	765	53	542	140	
9	9.787395	88	9.897712	53	9.889682	140	10.1103
0							

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4200	9.787395	88	9.897712	53	9.889682	141	10.110318	0.5800
01	483	88	659	53	823	141	177	0.5799
02	571	87	606	52	9.889964	141	10.110036	98
03	658	87	554	53	9.890105	141	10.109895	97
04	746	88	501	53	246	141	754	96
05	834	88	448	53	387	141	614	95
06	9.787922	88	395	53	527	141	473	94
07	9.788010	87	342	54	668	141	332	93
08	097	88	288	53	809	141	191	92
09	185	88	235	53	9.890950	140	10.109050	91
0.4210	273	87	182	53	9.891090	141	10.108910	0.5790
11	360	88	129	53	231	141	769	89
12	448	88	076	53	372	141	628	88
13	536	87	9.897023	53	513	141	487	87
14	623	88	9.896970	53	653	141	347	86
15	711	87	917	54	794	141	206	85
16	798	88	863	53	9.891935	140	10.108065	84
17	886	87	810	53	9.892075	141	10.107925	83
18	9.788973	88	757	53	216	141	784	82
19	9.789061	87	704	53	357	140	643	81
0.4220	148	87	651	54	497	141	503	0.5780
21	235	88	597	53	638	141	362	79
22	323	87	544	53	779	140	221	78
23	410	87	491	54	9.892919	141	10.107081	77
24	497	87	437	53	9.893060	140	10.106940	76
25	584	88	9.896384	53	200	141	800	75
26	672	87	331	54	341	141	659	74
27	759	87	277	53	482	140	518	73
28	846	87	224	53	622	141	378	72
29	9.789933	87	171	54	763	140	237	71
0.4230	9.790020	87	117	53	9.893903	141	10.106097	0.5770
31	107	87	064	54	9.894044	140	10.105956	69
32	194	87	9.896010	53	184	141	816	68
33	281	87	9.895957	54	325	140	675	67
34	368	87	903	53	465	141	535	66
35	455	87	850	54	606	140	394	65
36	542	87	796	53	746	141	254	64
37	629	87	743	54	9.894887	140	10.105113	63
38	716	87	689	53	9.895027	141	10.104973	62
39	803	87	636	54	168	140	833	61
0.4240	890	87	582	54	308	140	692	0.5760
41	9.790977	86	528	53	448	141	552	59
42	9.791063	87	475	54	589	140	411	58
43	150	87	421	54	729	141	271	57
44	237	87	367	53	9.895870	140	10.104131	56
45	324	86	314	54	9.896010	140	10.103990	55
46	410	87	260	54	150	141	850	54
47	497	86	206	53	291	140	709	53
48	583	87	153	54	431	140	569	52
49	670	87	099	54	571	141	429	51
0.4250	9.791757	87	9.895045	54	9.896712	141	10.103288	0.5750
A. c.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4250	9.791757	86	9.895045	54	9.896712	140	10.103288	0.5750
51	843	87	9.894991	54	852	140	148	49
52	9.791930	86	937	53	9.896992	141	10.103008	48
53	9.792016	87	884	54	9.897133	140	10.102868	47
54	103	86	830	54	273	140	727	46
55	189	86	776	54	413	140	587	45
56	275	87	722	54	553	141	447	44
57	362	86	668	54	694	140	307	43
58	448	86	614	54	834	140	166	42
59	534	87	560	54	9.897974	140	10.102026	41
0.4260	621	86	506	54	9.898114	140	10.101886	0.5740
61	707	86	452	54	254	141	746	39
62	793	86	398	54	395	140	605	38
63	879	86	344	54	535	140	465	37
64	9.792965	86	290	54	675	140	325	36
65	9.793051	87	236	54	815	140	185	35
66	138	86	182	54	9.898955	140	10.101045	34
67	224	86	128	54	9.899095	141	10.100905	33
68	310	85	074	54	236	140	764	32
69	396	86	9.894020	54	376	140	624	31
0.4270	482	86	9.893966	54	516	140	484	0.5730
71	568	86	912	54	656	140	344	29
72	654	86	858	54	796	140	204	28
73	740	85	803	55	9.899936	140	10.100064	27
74	825	86	749	54	9.900076	140	10.099924	26
75	911	86	695	54	216	140	784	25
76	9.793997	86	641	54	356	140	644	24
77	9.794083	86	587	54	496	140	504	23
78	169	85	532	55	636	140	364	22
79	254	86	478	54	776	140	224	21
0.4280	340	86	424	54	9.900916	140	10.099084	0.5720
81	426	85	369	54	9.901056	140	10.098944	19
82	511	86	315	54	196	140	804	18
83	597	86	261	55	336	140	664	17
84	683	85	206	55	476	140	524	16
85	768	86	152	54	616	140	384	15
86	854	85	098	55	756	140	244	14
87	9.794939	86	9.893043	54	9.901896	140	10.098104	13
88	9.795025	85	9.892989	55	9.902036	140	10.097964	12
89	110	86	934	54	176	140	824	11
0.4290	196	85	880	55	316	140	684	0.5710
91	281	86	825	54	456	140	544	09
92	367	85	771	55	596	140	404	08
93	452	85	716	54	736	139	265	07
94	537	86	662	55	9.902875	140	10.097125	06
95	623	85	607	54	9.903015	140	10.096985	05
96	708	85	553	55	155	140	845	04
97	793	85	498	54	295	140	705	03
98	878	85	444	55	435	140	565	02
0.4300	9.795963	85	389	55	575	140	425	01
0.4300	9.796049	86	9.892334	55	9.903714	139	10.096286	0.5700

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cor.	Arc.
o. 4300	9.796049	85	9.892334	54	9.903714	140	10.096286	o. 570
01	134	85	280	55	854	139	146	o. 560
02	219	85	225	55	9.903994	140	10.096006	
03	304	85	170	55	9.904134	140	10.095866	
04	389	85	115	55	274	139	726	
05	474	85	061	54	413	140	587	
06	559	85	9.892006	55	553	140	447	
07	644	85	9.891951	55	693	140	307	
08	729	85	896	54	833	139	168	
09	814	85	842	55	9.904972	140	10.095028	
o. 4310	899	85	787	55	9.905112	140	10.094888	o. 560
11	9.796984	84	732	55	252	139	748	
12	9.797068	85	677	55	391	140	609	
13	153	85	622	55	531	140	469	
14	238	85	567	55	671	139	329	
15	323	85	512	55	810	140	190	
16	408	84	458	55	9.905950	140	10.094050	
17	492	85	403	55	9.906090	139	10.093910	
18	577	85	348	55	229	140	771	
19	662	84	293	55	369	140	631	
o. 4320	746	85	238	55	509	139	491	o. 560
21	831	84	183	55	648	140	352	
22	915	85	128	55	788	139	212	
23	9.798000	84	073	56	9.906927	140	10.093073	
24	9.798084	85	9.891017	55	9.907067	140	10.092933	
25	169	84	9.890962	55	207	139	794	
26	253	85	907	55	346	140	654	7
27	338	84	852	55	486	139	514	7
28	422	85	797	55	625	140	375	7
29	507	84	742	55	765	139	235	7
o. 4330	591	84	687	55	9.907904	140	10.092096	o. 560
31	675	85	631	55	9.908044	139	10.091956	
32	760	84	576	55	183	140	817	
33	844	84	521	55	323	139	677	
34	9.798928	84	466	55	462	140	538	
35	9.799012	84	411	55	602	139	398	
36	096	85	355	55	741	140	259	
37	181	84	300	55	9.908881	139	10.091119	
38	265	84	245	56	9.909020	140	10.090980	
39	349	84	189	55	160	139	841	
o. 4340	433	84	134	55	299	139	701	
41	517	84	079	55	438	140	562	
42	601	84	9.890023	55	578	139	422	
43	685	84	9.889968	56	717	140	283	
44	769	84	912	55	857	139	144	
45	853	84	857	56	9.909996	139	10.090004	
46	9.799937	84	801	55	9.910135	140	10.089865	
47	9.800021	84	746	55	275	139	725	
48	105	83	691	56	414	139	586	
49	188	83	635	56	553	140	447	
o. 4350	9.800272	84	9.889579	56	9.910693	140	10.089307	o

Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
800272	84	9.889579	55	9.910693	139	10.089307	0.5650
356	84	524	56	832	139	168	49
440	83	468	55	9.910971	140	10.089029	48
523	84	413	56	9.911111	139	10.088889	47
607	84	357	55	250	139	750	46
691	83	302	56	389	140	611	45
774	84	246	56	529	139	472	44
858	84	190	55	668	139	332	43
800942	83	135	56	807	139	193	42
801025	84	079	56	9.911946	140	10.088054	41
109	83	9.889023	56	9.912086	139	10.087914	0.5640
192	84	9.888967	56	225	139	775	39
276	83	911	55	364	139	636	38
359	84	856	56	503	140	497	37
443	83	800	56	643	139	358	36
526	83	744	55	782	139	218	35
609	84	689	56	9.912921	139	10.087079	34
693	83	633	56	9.913060	139	10.086940	33
776	84	577	56	199	139	801	32
860	83	521	56	338	139	662	31
801943	83	465	56	478	139	523	0.5630
802026	83	409	56	617	139	383	29
109	83	353	56	756	139	244	28
193	82	297	56	9.913895	139	10.086105	27
275	84	241	56	9.914034	139	10.085966	26
359	83	185	56	173	139	827	25
442	83	129	56	312	139	688	24
525	83	073	56	451	140	549	23
608	83	9.888017	56	591	139	410	22
691	83	9.887961	56	730	139	270	21
774	83	905	56	9.914869	139	10.085131	0.5620
857	83	849	56	9.915008	139	10.084992	19
802940	83	793	56	147	139	853	18
803023	83	737	56	286	139	714	17
106	83	681	56	425	139	575	16
189	82	625	57	564	139	436	15
271	83	568	56	703	139	297	14
354	83	512	56	842	139	158	13
437	83	456	56	9.915981	139	10.084019	12
520	83	400	56	9.916120	139	10.083880	11
603	82	344	57	259	139	741	0.5610
685	83	287	56	398	139	602	09
768	83	231	56	537	139	463	08
851	82	175	57	676	139	324	07
803933	83	118	56	815	139	185	06
804016	82	062	56	9.916954	139	10.083046	05
098	83	9.887006	57	9.917093	139	10.082907	04
181	82	9.886949	56	232	139	768	03
263	83	893	56	371	138	630	02
346	83	837	56	509	139	491	01
804428	82	9.886780	57	9.917648	139	10.082352	0.5600

Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc
0.4400	9.804428	83	9.886780	56	9.917648	139	10.082352	0.54
01	511	82	724	57	787	139	2 13	01
02	593	83	667	56	9.917926	139	10.082074	
03	676	82	611	57	9.918065	139	10.081935	
04	758	82	554	56	204	189	96	
05	840	83	498	57	343	139	57	
06	9.804923	82	441	56	482	138	10	
07	9.805005	82	383	57	620	139	80	
08	087	83	328	56	759	139	41	
09	170	82	272	57	9.918898	139	10.081000	02
0.4410	252	82	215	57	9.919037	139	10.080000	63
11	334	82	158	56	176	139	24	
12	416	82	102	57	315	138	86	
13	498	82	9.886045	57	453	139	57	
14	580	82	9.885988	56	592	139	4	
15	662	82	932	57	731	139	2 69	
16	744	83	875	57	9.919870	138	10.080130	
17	827	82	818	57	9.920008	139	10.079992	
18	909	81	761	56	147	139	853	
19	9.805990	82	705	57	286	139	7 15	
0.4420	9.806072	82	648	57	425	138	575	0.55
21	154	82	591	57	563	139	437	
22	236	82	534	57	702	139	298	
23	318	82	477	57	841	139	159	
24	400	82	420	56	9.920980	138	10.079021	
25	482	82	364	57	9.921118	139	10.078882	
26	564	81	307	57	257	139	743	
27	645	82	250	57	396	138	604	
28	727	82	193	57	534	139	466	
29	809	82	136	57	673	139	327	
0.4430	891	81	079	57	812	138	188	0.55
31	9.806972	82	9.885022	57	9.921950	139	10.078050	
32	9.807054	81	9.884965	57	9.922089	139	10.077911	
33	135	82	908	57	228	138	773	
34	217	82	851	57	366	139	634	
35	299	81	794	57	505	138	495	
36	380	82	737	57	643	139	357	
37	462	81	680	57	782	139	218	
38	543	82	623	58	9.922921	138	10.077080	
39	625	81	565	57	9.923059	139	10.076941	
0.4440	706	81	508	57	198	138	802	0.55
41	787	82	451	57	336	139	664	
42	869	81	394	57	475	138	525	
43	9.807950	81	337	58	613	139	387	
44	9.808031	82	279	57	752	139	248	
45	113	81	222	57	9.923891	138	10.076110	
46	194	81	165	57	9.924029	139	10.075971	
47	275	81	108	58	168	138	832	
48	356	82	9.884050	57	306	139	694	
49	438	81	9.883993	57	445	138	555	
0.4450	9.808519	81	9.883936	57	9.924583	138	10.075417	0.55
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc

c. 445.

Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
.808518	82	9.883936	58	9.924583	139	10.075417	0.5550
600	81	878	57	722	138	278	49
681	81	821	57	860	139	140	48
762	81	764	58	9.924999	138	10.075001	47
843	81	706	57	9.925137	139	10.074863	46
.808924	81	649	58	276	138	725	45
.809005	81	591	57	414	138	586	44
086	81	534	58	552	139	448	43
167	81	476	57	691	138	309	42
248	81	419	58	829	139	171	41
329	81	361	57	9.925968	138	10.074032	0.5540
410	81	304	58	9.926106	139	10.073894	39
491	81	246	57	245	138	756	38
572	80	189	58	383	138	617	37
652	81	131	57	521	139	479	36
733	81	074	58	660	138	340	35
814	81	9.883016	58	798	139	202	34
895	80	9.882958	57	9.926937	138	10.073064	33
.809975	81	901	58	9.927075	138	10.072925	32
810056	81	843	58	213	139	787	31
137	80	785	58	352	138	648	0.5530
217	81	727	57	490	138	510	29
298	81	670	58	628	139	372	28
379	80	612	58	767	138	233	27
459	81	554	58	9.927905	138	10.072095	26
540	80	496	57	9.928043	139	10.071957	25
620	81	439	58	182	138	818	24
701	80	381	58	320	138	680	23
781	80	323	58	458	139	542	22
861	81	265	58	597	138	404	21
.810942	80	207	58	735	138	265	0.5520
.811022	81	149	58	9.928873	138	10.071127	19
103	80	091	58	9.929011	139	10.070989	18
183	80	9.882033	58	150	138	851	17
263	80	9.881975	58	288	138	712	16
343	81	917	58	426	138	574	15
424	80	859	58	564	139	436	14
504	80	801	58	703	138	298	13
584	80	743	58	841	138	159	12
664	80	685	58	9.929979	138	10.070021	11
744	81	627	58	9.930117	138	10.069881	0.5510
825	80	569	58	255	139	745	09
905	80	511	58	394	138	606	08
.811985	80	453	58	532	138	468	07
.812065	80	395	58	670	138	330	06
145	80	337	58	808	138	192	05
225	80	278	58	9.930946	139	10.069054	04
305	80	220	58	9.931085	138	10.068916	03
385	80	162	58	223	138	777	02
465	80	104	58	361	138	639	01
.812544	79	9.881046	58	9.931499	138	10.068501	0.5500

c. 550.

α. 450.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc
0.4500	9.812544	80	9.881046	59	9.931499	138	10.068501	0.55
01	624	80	9.880987	58	637	138	363	0.54
02	704	80	9.880929	58	775	138	225	
03	784	80	871	59	9.931913	138	10.068087	
04	864	80	812	58	9.932051	139	10.067949	
05	9.812944	80	754	58	190	138	811	
06	9.813023	79	696	59	328	138	672	
07	103	80	637	58	466	138	534	
08	183	80	579	59	604	138	396	
09	262	79	520	58	742	138	258	
0.4510	342	80	462	58	9.932880	138	10.067120	0.54
11	422	79	404	59	9.933018	138	10.066982	
12	501	80	345	58	156	138	844	
13	581	80	287	59	294	138	706	
14	660	80	228	58	432	138	568	
15	740	80	170	59	570	138	430	
16	819	80	111	59	708	138	292	
17	899	80	9.880052	58	846	138	154	
18	9.813978	79	9.879994	59	9.933984	138	10.066016	
19	9.814057	80	935	58	9.934122	138	10.065878	
0.4520	137	79	877	59	260	138	740	0.54
21	216	80	818	59	398	138	602	
22	296	80	759	58	536	138	464	
23	375	79	701	59	674	138	326	
24	454	79	642	59	812	138	188	
25	533	80	583	59	9.934950	138	10.065050	
26	613	79	524	58	9.935088	138	10.064912	
27	692	79	466	59	226	138	774	
28	771	79	407	59	364	138	636	
29	850	79	348	59	502	138	498	
0.4530	9.814929	79	289	59	640	138	360	0.54
31	9.815008	79	230	58	778	138	222	
32	087	80	172	59	9.935916	138	10.064084	
33	167	79	113	59	9.936054	138	10.063946	
34	246	79	9.879054	59	192	137	808	
35	325	79	9.878995	59	329	139	670	
36	404	78	936	59	468	137	533	
37	482	78	877	59	605	138	395	
38	561	79	818	59	743	138	257	
39	640	79	759	59	9.936881	138	10.063119	
0.4540	719	79	700	59	9.937019	138	10.062981	0.54
41	798	79	641	59	157	138	843	
42	877	79	582	59	295	138	705	
43	9.815956	78	523	59	433	138	567	
44	9.816034	78	464	59	571	137	430	
45	113	79	405	59	708	138	292	
46	192	79	346	59	846	138	154	
47	271	78	287	60	9.937984	138	10.062026	
48	349	78	227	59	9.938122	138	10.061878	
49	428	79	168	59	260	138	740	
0.4550	9.816507	79	9.878109	59	9.938398	138	10.061603	0.54

α. 545.

Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc
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o. 455.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
o. 4550	9.816507	78	9.878109	59	9.938398	137	10.061603	o. 2450
51	585	79	9.878050	59	535	138	465	49
52	664	78	9.877991	60	673	138	327	48
53	742	79	931	59	811	138	189	47
54	821	78	872	59	9.938949	138	10.061051	46
55	899	79	813	59	9.939087	137	10.060914	45
56	9.816978	78	754	60	224	138	776	44
57	9.817056	79	694	59	362	138	638	43
58	135	78	635	59	500	138	500	42
59	213	79	576	60	638	137	362	41
o. 4560	292	78	516	59	775	138	225	o. 5440
61	370	79	457	60	9.939913	138	10.060087	39
62	448	78	397	59	9.940051	138	10.059949	38
63	526	79	338	60	189	137	811	37
64	605	78	278	59	326	138	674	36
65	683	79	219	59	464	138	536	35
66	761	78	160	60	602	138	398	34
67	839	79	100	60	740	137	261	33
68	918	78	9.877040	59	9.940877	138	10.059123	32
69	9.817996	79	9.876981	60	9.941015	138	10.058985	31
o. 4570	9.818074	78	921	59	153	137	847	o. 5430
71	152	79	862	60	290	138	710	29
72	230	78	802	59	428	138	572	28
73	308	79	743	60	566	137	434	27
74	386	78	683	60	703	138	297	26
75	464	79	623	59	841	138	159	25
76	542	78	564	60	9.941979	137	10.058021	24
77	620	79	504	60	9.942116	138	10.057884	23
78	698	78	444	60	254	138	746	22
79	776	79	384	59	392	137	608	21
o. 4580	854	78	325	60	529	138	471	o. 5420
81	9.818932	79	265	60	667	137	333	19
82	9.819010	78	205	60	804	138	196	18
83	087	79	145	60	9.942942	138	10.057058	17
84	165	78	085	59	9.943080	137	10.056920	16
85	243	79	9.876026	60	217	138	783	15
86	321	78	9.875966	60	355	138	645	14
87	398	79	906	60	493	137	508	13
88	476	78	846	60	630	138	370	12
89	554	79	786	60	768	137	232	11
o. 4590	631	78	726	60	9.943905	138	10.056095	o. 5410
91	709	79	666	60	9.944043	137	10.055957	09
92	787	78	606	60	180	138	820	08
93	864	79	546	60	318	138	682	07
94	9.819942	78	486	60	456	137	545	06
95	9.820019	79	426	60	593	138	407	05
96	097	78	366	60	731	137	269	04
97	174	79	306	60	9.944868	138	10.055132	03
98	252	78	246	60	9.945006	137	10.054994	02
o. 4599	329	79	186	60	143	138	857	01
o. 4600	9.820406	78	9.875126	60	9.945281	138	10.054719	o. 5400

o. 540.

Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.
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o. 460.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Ar
0.4600	9.820406	78	9.875126	61	9.945281	137	10.054719	0.54
01	484	77	065	60	418	138	582	0.53
02	561	77	9.875005	60	556	137	444	
03	638	77	9.874945	60	693	138	307	
04	716	78	885	60	831	137	169	
05	793	77	825	60	9.945968	137	10.054032	
06	870	77	764	61	9.946106	138	10.053894	
07	9.820947	77	704	60	243	137	757	
08	9.821025	78	644	60	381	138	619	
09	102	77	584	60	518	137	482	
0.4610	179	77	523	61	656	138	344	0.536
11	256	77	463	60	793	137	207	
12	333	77	403	61	9.946931	137	10.053069	
13	410	77	342	60	9.947068	138	10.052932	
14	487	77	282	61	206	137	795	
15	564	77	221	60	343	137	657	
16	641	77	161	61	480	138	520	
17	718	77	100	60	618	137	382	
18	795	77	9.874040	61	755	138	245	
19	872	77	9.873979	60	9.947893	137	10.052107	
0.4620	9.821949	77	919	61	9.948030	138	10.051970	
21	9.822026	77	858	60	168	137	833	
22	103	77	798	61	305	137	695	
23	180	77	737	60	442	138	558	
24	256	76	677	61	580	137	420	
25	333	77	616	61	717	138	283	
26	410	77	555	60	855	137	146	
27	487	77	495	61	9.948992	137	10.051008	
28	563	76	434	61	9.949129	138	10.050871	
29	640	77	373	60	267	137	733	
0.4630	717	77	313	60	404	137	596	
31	793	76	252	61	541	138	459	
32	870	77	191	60	679	137	321	
33	9.822947	77	131	61	816	137	184	
34	9.823023	76	070	61	9.949953	138	10.050047	
35	100	77	9.873009	61	9.950091	137	10.049909	
36	176	77	9.872948	61	228	137	772	
37	253	77	887	61	365	138	635	
38	329	76	826	60	503	137	497	
39	406	76	766	61	640	137	360	
0.4640	482	76	705	61	777	138	223	0.53
41	558	76	644	61	9.950915	137	10.049085	
42	635	77	583	61	9.951052	137	10.048948	
43	711	76	522	61	189	138	811	
44	787	77	461	61	327	137	673	
45	864	77	400	61	464	137	536	
46	9.823940	76	339	61	601	138	399	
47	9.824016	76	278	61	739	137	262	
48	092	76	217	61	9.951876	137	10.048124	
49	169	77	156	61	9.952013	137	10.047987	
0.4650	9.824245	76	9.872095	61	9.952150	137	10.047850	0.53
Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Cot.	Dif.	Log. Tang.	Ar

o. 535.

o. 465.

Arc.	Log. Sin.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.	
0.4650	9.824245	9.872095	76	9.952150	138	10.047850	0.5350	
51	321	9.872033	76	288	137	712	49	
52	397	9.871972	76	425	137	575	48	
53	473	911	76	562	137	438	47	
54	549	850	76	699	137	301	46	
55	625	789	76	837	138	163	45	
56	701	728	76	9.952974	137	10.047026	44	
57	777	666	76	9.953111	137	10.046889	43	
58	853	605	76	248	138	752	42	
59	0.824929	544	76	386	137	615	41	
60	9.825005	483	76	523	137	477	0.5340	
61	081	421	76	660	137	340	39	
62	157	360	76	797	137	203	38	
63	233	299	76	9.953934	138	10.046066	37	
64	309	237	76	9.954072	137	10.045928	36	
65	385	176	75	209	137	791	35	
66	460	114	76	346	137	654	34	
67	536	9.871053	76	483	137	517	33	
68	612	9.870992	76	620	138	380	32	
69	688	930	75	758	137	243	31	
70	763	869	76	9.954895	137	10.045105	0.5330	
71	839	807	76	9.955032	137	10.044968	29	
72	915	746	75	169	137	831	28	
73	9.825990	684	76	306	137	694	27	
74	9.826066	623	75	443	138	557	26	
75	141	561	76	581	137	420	25	
76	217	499	76	718	137	282	24	
77	293	438	75	855	137	145	23	
78	368	376	76	9.955992	137	10.044008	22	
79	444	314	75	9.956129	137	10.043871	21	
80	519	253	75	266	137	734	0.5320	
81	594	191	76	403	138	597	19	
82	670	129	75	541	137	460	18	
83	745	068	76	678	137	322	17	
84	821	9.870006	75	815	137	185	16	
85	896	9.869944	75	9.956952	137	10.043048	15	
86	9.826971	882	76	9.957089	137	10.042911	14	
87	9.827047	821	75	226	137	774	13	
88	122	759	75	363	137	637	12	
89	197	697	75	500	137	500	11	
90	272	635	75	637	137	363	0.5310	
91	347	573	76	774	138	226	09	
92	423	511	75	9.957912	137	10.042089	08	
93	498	449	75	9.958049	137	10.041951	07	
94	573	387	75	186	137	814	06	
95	648	325	75	323	137	677	05	
96	723	263	75	460	137	540	04	
97	798	201	75	597	137	403	03	
98	873	139	75	734	137	266	02	
99	9.827948	077	75	9.958871	137	10.041129	01	
100	9.828023	0.869015	75	9.959008	137	10.040992	0.5300	
	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 530.

0. 470

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0. 4700	9.828023	75	9.869015	62	9.959008	137	10.040992	0.5300
01	098	75	9.868953	62	145	137	855	0.5299
02	173	75	891	62	282	137	718	98
03	248	75	829	62	419	137	581	97
04	323	75	767	62	556	137	444	96
05	398	75	705	63	693	137	307	95
06	473	74	642	62	830	137	170	94
07	547	75	580	62	9.959967	137	10.040033	93
08	622	75	518	62	9.960104	137	10.039896	92
09	697	75	456	63	241	137	759	91
0.4710	772	75	393	62	378	137	622	0.5290
11	846	75	331	62	515	137	485	89
12	921	75	269	62	652	137	348	88
13	9.828996	74	207	63	789	137	211	87
14	9.829070	74	144	62	9.960926	137	10.039074	86
15	145	75	082	62	9.961063	137	10.038937	85
16	220	74	9.868020	63	200	137	800	84
17	294	75	9.867957	62	337	137	663	83
18	369	74	895	63	474	137	526	82
19	443	75	832	62	611	137	389	81
0.4720	518	74	770	63	748	137	252	0.5280
21	592	75	707	62	9.961885	137	10.038115	79
22	667	74	645	63	9.962022	137	10.037978	78
23	741	75	582	62	159	137	841	77
24	816	74	520	63	296	137	704	76
25	890	74	457	62	433	137	567	75
26	9.829964	75	395	63	570	137	430	74
27	9.830039	74	332	63	707	137	293	73
28	113	74	269	62	844	137	156	72
29	187	75	207	63	9.962981	137	10.037019	71
0.4730	262	75	144	63	9.963118	137	10.036882	0.5270
31	336	74	081	62	255	136	746	69
32	410	74	9.867019	63	391	137	609	68
33	484	75	9.866956	63	528	137	472	67
34	559	74	893	62	665	137	335	66
35	633	74	831	63	802	137	198	65
36	707	74	768	63	9.963939	137	10.036061	64
37	781	74	705	63	9.964076	137	10.035924	63
38	855	74	642	63	213	137	787	62
39	9.830929	74	579	62	350	137	650	61
0.4740	9.831003	74	517	63	487	137	513	0.5260
41	077	74	454	63	624	137	376	59
42	151	74	391	63	761	137	240	58
43	225	74	328	63	9.964897	136	10.035103	57
44	299	74	265	63	9.965034	137	10.034966	56
45	373	74	202	63	171	137	829	55
46	447	74	139	63	308	137	692	54
47	521	74	076	63	445	137	555	53
48	595	74	9.866013	63	582	137	418	52
49	669	73	9.865950	63	719	137	281	51
0.4750	9.831742	73	9.865887	63	9.965856	137	10.034145	0.5250
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Art.

0. 475

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4750	9.831742		9.865887		9.965856		10.034145	0.5250
51	816	74	824	63	9.965992	136	10.034008	49
52	890	74	761	63	9.966129	137	10.033871	48
53	9.831964	74	698	63	266	137	734	47
54	9.832037	73	634	64	403	137	597	46
55	111	74	571	63	540	137	460	45
56	185	74	508	63	677	137	323	44
57	258	73	445	63	813	136	187	43
58	332	74	382	63	9.966950	137	10.033050	42
59	406	74	319	63	9.967087	137	10.032913	41
0.4760	479	73	255	64	224	137	776	0.5240
61	553	74	192	63	361	137	639	39
62	626	73	129	63	498	137	503	38
63	700	74	65	64	634	136	366	37
64	773	73	9.865002	63	771	137	229	36
65	847	74	9.864939	63	9.967908	137	10.032092	35
66	920	73	875	64	9.968045	137	10.031955	34
67	9.832994	74	812	63	182	137	818	33
68	9.833067	73	749	63	318	136	682	32
69	140	73	685	64	455	137	545	31
0.4770	214	74	622	63	592	137	408	0.5230
71	287	73	558	64	729	137	271	29
72	360	73	495	63	9.968866	137	10.031134	28
73	434	74	431	64	9.969002	136	10.030998	27
74	507	73	368	63	139	137	861	26
75	580	73	304	64	276	137	724	25
76	653	73	241	63	413	137	587	24
77	726	73	177	64	550	137	451	23
78	800	74	113	64	686	136	314	22
79	873	73	9.864050	63	823	137	177	21
0.4780	9.833946	73	9.863986	64	9.969960	137	10.030040	0.5220
81	9.834019	73	922	64	9.970097	137	10.029903	19
82	092	73	859	63	233	136	767	18
83	165	73	795	64	370	137	630	17
84	238	73	731	64	507	137	493	16
85	311	73	668	63	644	137	356	15
86	384	73	604	64	780	136	220	14
87	457	73	540	64	9.970917	137	10.029083	13
88	530	73	476	64	9.971054	137	10.028946	12
89	603	73	412	64	191	137	809	11
0.4790	676	73	348	64	327	136	673	0.5210
91	749	73	285	63	464	137	536	09
92	821	72	221	64	601	137	399	08
93	894	73	157	64	738	137	263	07
94	9.834967	73	993	64	9.971874	136	10.028126	06
95	9.835040	73	9.863029	64	9.072011	137	10.027989	05
96	113	73	9.862965	64	148	137	852	04
97	185	72	901	64	284	136	716	03
98	258	73	837	64	421	137	579	02
0.4799	331	73	773	64	558	137	442	01
0.4800	9.835403	72	9.862709	64	9.972695	137	10.027306	0.5200
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.480.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4800	9.835403	73	9.862709	64	9.972695	136	10.027306	0.5200
01	476	73	645	64	831	136	169	0.5199
02	549	73	581	64	9.972968	137	10.027032	98
03	621	72	517	64	9.973105	137	10.026805	97
04	694	73	452	65	241	136	759	96
05	766	72	388	64	378	137	622	95
		73		64				
06	839	72	324	64	515	137	485	94
07	911	72	260	64	651	136	349	93
08	9.835984	73	196	64	788	137	212	92
09	9.836056	72	132	64	9.973925	137	10.026075	91
0.4810	129	73	67	65	9.974061	136	10.025939	0.5190
		72		64				
11	201	72	9.862003	64	198	137	802	89
12	273	72	9.861939	64	335	137	665	88
13	346	73	874	65	472	137	529	87
14	418	72	810	64	608	136	392	86
15	491	73	746	64	745	137	255	85
		72		65				
16	563	72	681	65	9.974882	137	10.025119	84
17	635	72	617	64	9.975018	136	10.024982	83
18	707	72	553	64	155	137	845	82
19	780	73	488	65	292	137	709	81
0.4820	852	72	424	64	428	136	572	0.5180
		72		65				
21	924	72	359	65	565	137	435	79
22	9.836996	72	295	64	701	136	299	78
23	9.837068	72	230	65	838	137	162	77
24	140	72	166	64	9.975975	137	10.024025	76
25	212	72	101	65	9.976111	136	10.023889	75
		72		65				
26	284	72	9.861036	65	248	137	752	74
27	357	73	9.860972	64	385	137	615	73
28	429	72	907	65	521	136	479	72
29	501	72	843	64	658	137	342	71
0.4830	573	72	778	65	795	137	205	0.5170
		71		65				
31	644	72	713	65	9.976931	136	10.023069	69
32	716	72	649	64	9.977068	137	10.022932	68
33	788	72	584	65	205	137	796	67
34	860	72	519	65	341	136	659	66
35	9.837932	72	454	65	478	137	522	65
		72		64				
36	9.838004	72	390	64	614	136	386	64
37	076	72	325	65	751	137	249	63
38	147	71	260	65	9.977888	137	10.022112	62
39	219	72	195	65	9.978024	136	10.021976	61
0.4840	291	72	130	65	161	137	839	0.5160
		72		65				
41	363	72	065	65	297	136	703	59
42	434	71	9.860000	65	434	137	566	58
43	506	72	9.859936	64	571	137	429	57
44	578	72	871	65	707	136	293	56
45	649	71	806	65	844	137	156	55
		72		65				
46	721	72	741	65	9.978980	136	10.021020	54
47	793	72	676	65	9.979117	137	10.020883	53
48	864	71	611	65	254	137	746	52
49	9.838936	72	546	65	390	136	610	51
0.4850	9.839007	71	9.859480	66	9.979527	137	10.020473	0.5150
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

0.515.

o. 485.

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
o. 4850	9.839007	72	9.859480	65	9.979527	136	10.020473	0.5150
51	079	71	415	65	663	137	337	49
52	150	72	350	65	800	137	200	48
53	222	71	285	65	9.979937	136	10.020064	47
54	293	72	220	65	9.980073	137	10.019927	46
55	365	71	155	65	210	136	790	45
56	436	71	090	66	346	137	654	44
57	507	72	9.859024	65	483	136	517	43
58	579	71	9.858959	65	619	137	381	42
59	650	72	894	65	756	137	244	41
o. 4860	721	71	829	65	9.980893	136	10.019107	0.5140
61	793	72	763	65	9.981029	137	10.018971	39
62	864	71	698	65	166	136	834	38
63	9.839935	72	633	65	302	137	698	37
64	9.840006	71	567	65	439	136	561	36
65	077	72	502	65	575	137	425	35
66	149	71	437	66	712	137	288	34
67	220	72	371	65	849	136	152	33
68	291	71	306	65	9.981985	137	10.018015	32
69	362	72	240	65	9.982122	136	10.017878	31
o. 4870	433	71	175	65	258	137	742	0.5130
71	504	72	109	65	395	136	605	29
72	575	71	9.858044	66	531	137	469	28
73	646	72	9.857978	65	668	136	332	27
74	717	71	913	65	804	137	196	26
75	788	72	847	65	9.982941	136	10.017059	25
76	859	71	782	66	9.983078	137	10.016923	24
77	9.840930	72	716	66	214	136	786	23
78	9.841001	71	650	66	351	137	650	22
79	072	72	585	65	487	136	513	21
o. 4880	143	71	519	66	624	137	376	0.5120
81	213	70	453	66	760	136	240	19
82	284	71	387	66	9.983897	137	10.016103	18
83	355	72	322	65	9.984033	136	10.015967	17
84	426	71	256	66	170	137	830	16
85	496	70	190	66	306	136	694	15
86	567	71	124	65	443	137	557	14
87	638	72	9.857059	66	579	136	421	13
88	709	71	9.856993	66	716	137	284	12
89	779	70	927	66	852	136	148	11
o. 4890	850	71	861	66	9.984989	137	10.015011	0.5110
91	920	70	795	66	9.985125	136	10.014875	09
92	9.841991	71	729	66	262	137	738	08
93	9.842062	72	663	66	398	136	602	07
94	132	70	597	66	535	137	465	06
95	203	71	531	66	671	136	329	05
96	273	70	465	66	808	137	192	04
97	344	71	399	66	9.985945	137	10.014056	03
98	414	70	333	66	9.986081	136	10.013919	02
o. 4899	484	70	267	66	218	137	783	01
o. 4900	9.842555	71	9.856201	66	9.986354	136	10.013646	0.5100
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	Arc.

o. 490.

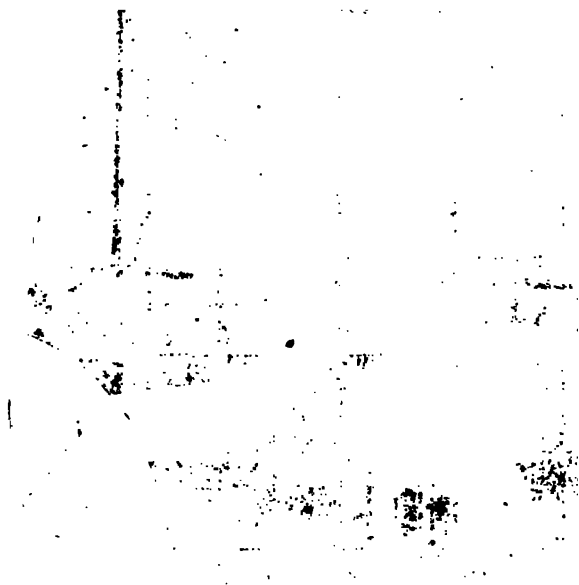
Arc.	Log. Sin.	D.	Log. Cos.	D.	Log. Tang.	Dif.	Log. Cot.	A
o. 4900	9.842555	70	9.856201	66	9.986354	137	10.013646	0.5
01	625	71	135	66	491	136	510	0.5
02	696	70	069	67	627	137	373	
03	766	70	9.856002	66	764	136	237	
04	836	71	9.855936	66	9.986900	137	10.013100	
05	907	70	870	66	9.987037	136	10.012964	
06	9.842977	70	804	66	173	137	827	
07	9.843047	70	738	67	310	136	691	
08	117	71	671	66	446	137	554	
09	188	70	605	66	583	136	418	
o. 4910	258	70	539	67	719	137	281	0.5
11	328	70	472	66	856	136	145	
12	398	70	406	66	9.987992	136	10.012008	
13	468	70	340	67	9.988128	137	10.011872	
14	538	70	273	66	265	136	735	
15	608	70	207	67	401	137	599	
16	678	70	140	66	538	136	462	
17	748	70	074	66	674	137	326	
18	818	70	9.855008	67	811	136	189	
19	888	70	9.854941	66	9.988947	137	10.011053	
o. 4920	9.843958	70	875	67	9.989084	136	10.010916	0.5
21	9.844028	70	808	67	220	137	780	
22	098	70	741	66	357	136	643	
23	168	70	675	67	493	137	507	
24	238	70	608	66	630	136	370	
25	308	70	542	67	766	137	234	
26	378	70	475	67	9.989903	136	10.010097	
27	448	70	408	66	9.990039	137	10.009961	
28	517	69	342	67	176	136	824	
29	587	70	275	67	312	137	688	
o. 4930	657	70	208	67	449	137	551	0.5
31	727	70	141	67	585	136	415	
32	796	69	075	66	722	137	279	
33	866	70	9.854008	67	858	136	142	
34	9.844936	70	9.853941	67	9.990995	137	10.009006	
35	9.845005	69	874	67	9.991131	136	10.008869	
36	075	70	807	67	267	136	733	
37	144	69	741	66	404	137	596	
38	214	70	674	67	540	136	460	
39	284	70	607	67	677	137	323	
o. 4940	353	69	540	67	813	136	187	0.5
41	423	70	473	67	9.991950	137	10.008050	
42	492	69	406	67	9.992086	136	10.007914	
43	562	70	339	67	223	137	777	
44	631	69	272	67	359	136	641	
45	700	69	205	67	496	137	504	
46	770	70	138	67	632	136	368	
47	839	69	071	67	769	137	232	
48	909	70	9.853004	67	9.992905	136	10.007095	
49	9.845978	69	9.852936	68	9.993041	136	10.006959	
o. 4950	9.846047	69	9.852869	67	9.993178	137	10.006822	0.5
Arc.	Log. Cosin.	D.	Log. Sin.	D.	Log. Cot.	Dif.	Log. Tang.	A

o. 505.

0.495

Arc.	Log. Sin.	D.	Log. Cosin.	D.	Log. Tang.	Dif.	Log. Cot.	Arc.
0.4950	9.846047	69	9.852869	67	9.993178	136	10.006822	0.5050
51	116	70	802	67	314	137	686	49
52	186	69	735	67	451	136	549	48
53	255	69	668	67	587	137	413	47
54	324	69	601	67	724	136	276	46
55	393	69	533	68	860	137	140	45
56	463	70	466	67	9.993997	136	10.006003	44
57	532	69	399	68	9.994133	137	10.005867	43
58	601	69	331	67	270	136	731	42
59	670	69	264	67	406	136	594	41
0.4960	739	69	197	67	542	137	458	0.5040
61	808	69	129	68	679	136	321	39
62	877	69	9.852062	67	815	137	185	38
63	9.846946	69	9.851995	67	9.994952	136	10.005048	37
64	9.847015	69	927	68	9.995088	137	10.004912	36
65	084	69	860	67	225	136	775	35
66	153	69	792	68	361	137	630	34
67	222	69	725	67	498	136	503	33
68	291	69	657	68	634	137	366	32
69	360	69	590	67	770	136	230	31
0.4970	429	69	522	68	9.995907	137	10.004093	0.5030
71	498	69	454	68	9.996043	136	10.003957	29
72	566	68	387	67	180	137	820	28
73	635	69	319	68	316	136	684	27
74	704	69	252	67	453	137	547	26
75	773	69	184	68	589	136	411	25
76	842	69	116	68	726	137	275	24
77	910	68	9.851048	68	862	136	138	23
78	9.847979	69	9.850980	68	9.996998	136	10.003002	22
79	9.848048	69	913	67	9.997135	137	10.002865	21
0.4980	116	68	845	68	271	136	729	0.5020
81	185	69	777	68	408	137	592	19
82	254	69	710	67	544	136	456	18
83	322	68	642	68	681	137	320	17
84	391	69	574	68	817	136	183	16
85	459	68	506	68	9.997953	136	10.002047	15
86	528	69	438	68	9.998090	137	10.001910	14
87	596	68	370	68	226	136	774	13
88	665	69	302	68	363	137	637	12
89	733	68	234	68	499	136	501	11
0.4990	802	69	166	68	636	137	364	0.5010
91	870	68	998	68	772	136	228	09
92	9.848939	69	9.850030	68	9.998909	137	10.001092	08
93	9.849007	68	9.849962	68	9.999045	136	10.000955	07
94	075	68	894	68	181	136	819	06
95	144	69	826	68	318	137	682	05
96	212	68	758	68	454	136	546	04
97	280	68	690	68	591	137	409	03
98	349	69	621	69	727	136	273	02
0.4999	417	68	553	68	9.999864	137	136	01
0.5000	9.849485	68	9.849485	68	10.000000	136	10.000000	0.5000

0.500

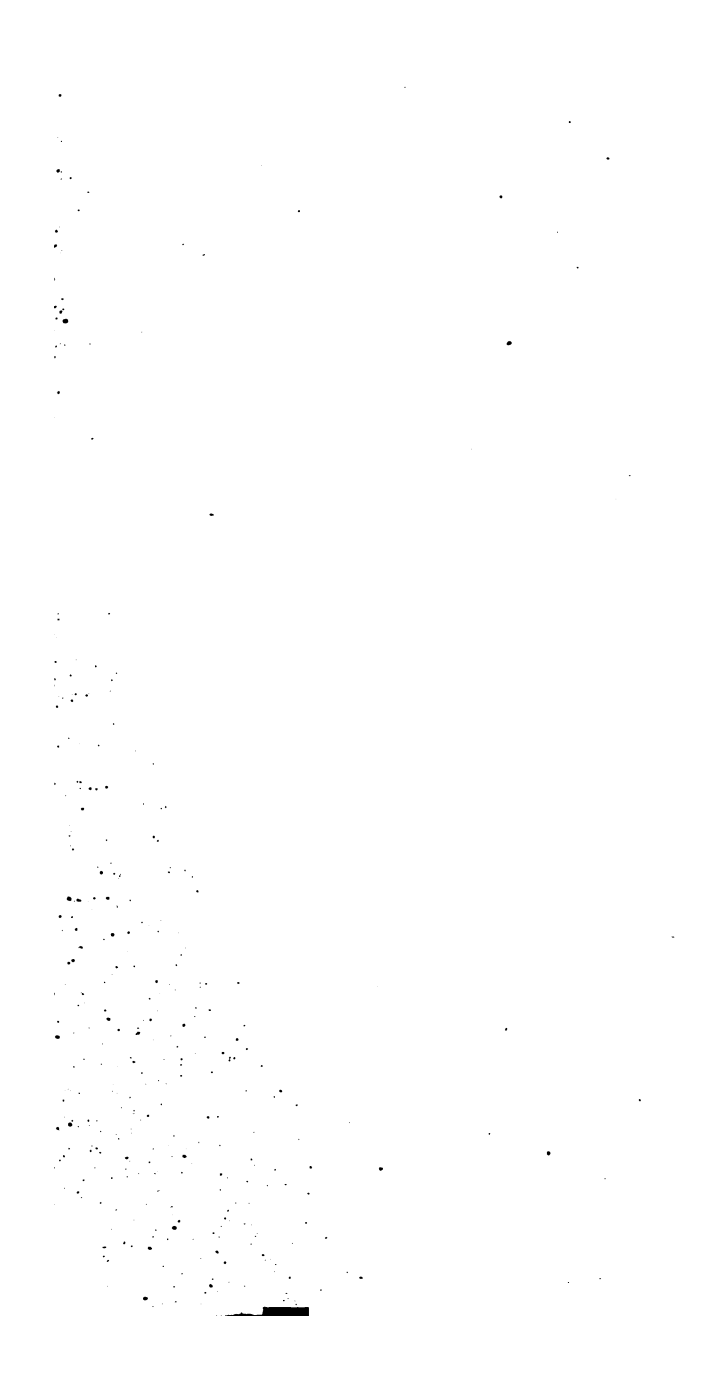




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