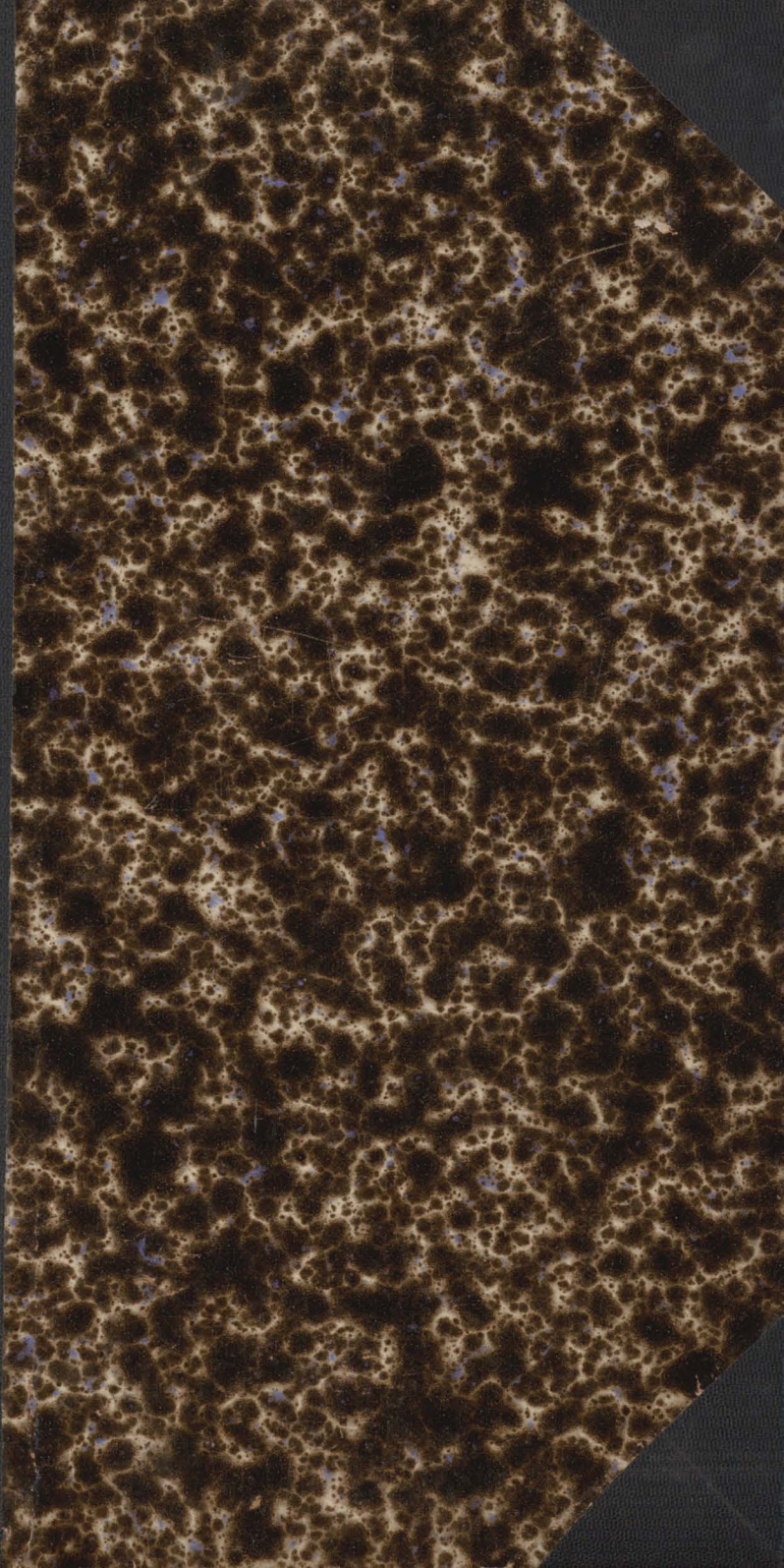


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TANGENS-TÁBLÁZATOK.

TARTALMAZZÁK A SZINTKÜLÖMBSÉGEKET

0° – 26° hajlásszögig az 1, 2, 4, 6–100-ig és 26° – 46° -ig az 1, 2, 3–10-ig terjedő vízszintes távolságokra.

TOVÁBBÁ

TÁBLÁZAT A RETEGEK METSZŐPONTJAINAK MEGHATÁROZÁSÁRA

0° – 45° -ig és 1–20-ig terjedő réteg-szintkülömbiségre.

ÖSSZEÁLLITOTTA

POHL JÁNOS

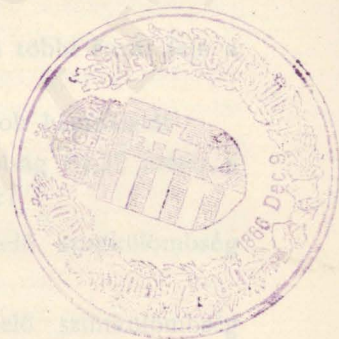
szab. osztr.-magy. államvasutttársasági főerdész és erdőrendező.

KIADJA AZ ORSZÁGOS ERDÉSZETI EGYESÜLET.

A. k. 2598.

M/2/3
1/11

UTÁNNYOMÁS TILOS.



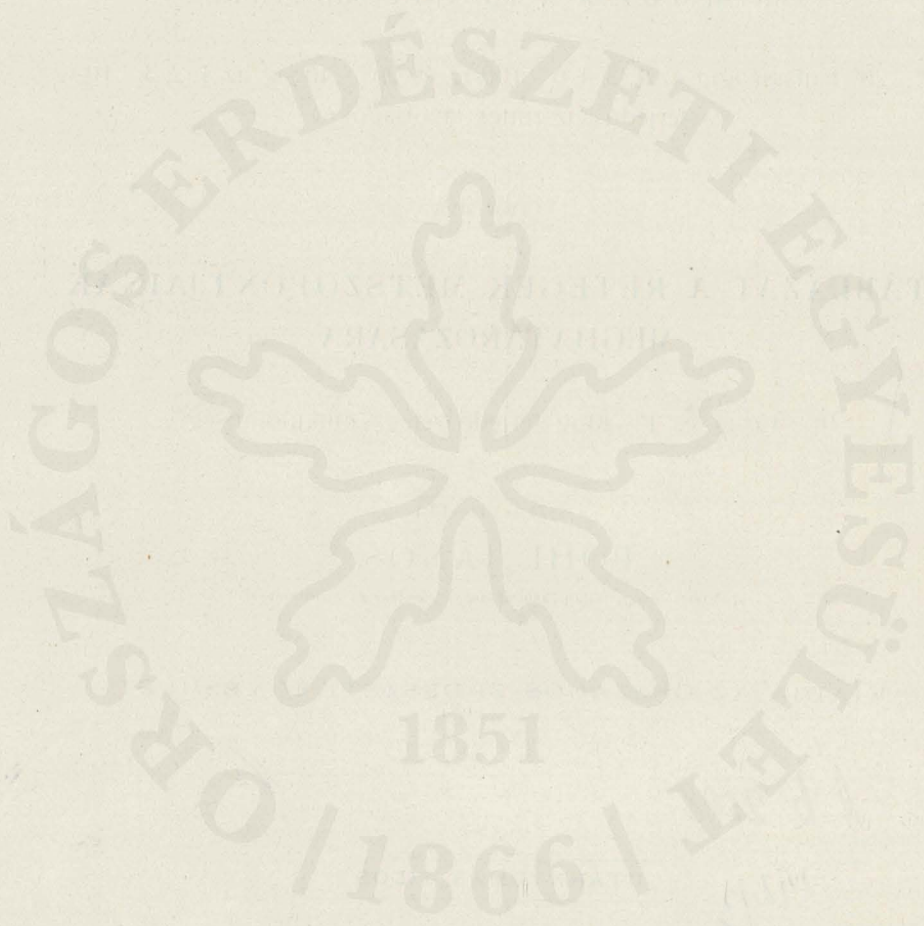
BUDAPEST,

„PÁTRIA” IRODALMI VÁLLALAT ÉS NYOMDAI RÉSZVÉNYTÁRSASÁG

1900.

ORSZÁGOS ERDÉSZETI KÖNYVTÁR

TANGENS-TABLÁZATOK



HASZNÁLATI UTASÍTÁS.

Ezen táblázatok célja két pont szintkülömbségének a közöttük levő vízszintes távolságból és magassági szögéből való kiszámítását vagy teljesen nélkülözhetővé tenni, vagy a lehető legnagyobb mértékben megkönnyíteni.

A szintkülömbségek (tangensek) öt tizedesre számítottak ki pontosan, de a kezelhetőbb használat végett három, illetve két tizedesre lettek kikerekítve.

A tangensek a gyakran előforduló hajlásszögekre (0° — 26°) 2—2 perczre és 1-től 100-ig terjedő minden páros számú egységnyi vízszintes távolságra vannak kitüntetve, 6° -ig 3, azontul 2 tizedessel. A ritkábban előforduló hajlásszögekre 26° -tól 46° -ig) a szintkülömbségek 2—2 perczre az 1—10-ig terjedő távolságokra 3 tizedessel vétettek föl.

Az első rovat a vízszintes távolságokat, a többi rovat feje a magassági vagy lejtőszögeket foglalja magában.

Magyarázza meg néhány példa a táblázatok használatát:

Legyen két pont között a vízszintes távolság 84.22 méter, a hajlásszög $15^{\circ} 38'$; keresendő szintkülömbségük?

84 méter vízszintes távolságnak megfelelő szintkülömbség (tangens) = 23.51 vagy röviden 23.51

0.22 méter vízszintes távolságnak megfelelő szintkülömbség (tangens) = 0.06 vagy röviden 6

84.22 méter vízszintes távolságnak megfelelő szintkülömbség (tangens) = 23.57 vagy röviden 23.47.

Ugyanez a számítás

logaritmussal	mennyiségtani uton
$\log 84.22 = 1.9254152$	0.27983×84.22
$\log \operatorname{tg} 15^{\circ}38' = 9.4468976 - 10$	<hr/>
<hr/>	55966
1.3723128	55966
Szintkülömbőség 23.56746	111932
	<hr/>
Szintkülömbőség	223864
	<hr/>
	23.5672826

Vagy :

Vízszintes távolság 97.77, hajlásszög $25^{\circ}13'$

Szintkülömbőség a vízszintes távolság 1 egységére = 0.47
vagy röviden 47

Szintkülömbőség a vízszintes távolság 96 egységére = 45.21
vagy röviden 45.21

Szintkülömbőség a vízszintes távolság 0.77 egységére = 0.36
vagy röviden 36

Szintkülömbőség a vízszintes távolság 97.77 egységére = 46.04
vagy röviden 46.04.

Vagy pedig háromszögeléseknél:

Vízszintes távolság 5277, hajlásszög $1^{\circ}47'$.

Szintkülömbőség 5200 egység után = 161.9

»

 77 » » = 2.4

»

 5277 » » = 164.3.

Vagy pedig famagasság-méréseknél :

Vízszintes távolság a fa közepétől műszerünk álláspontjáig
28.90 méter ;

Irányzat a csúcra $+ 38^{\circ}58'$; irányzat a fa tövére $- 12^{\circ}26'$.

Magasság $38^{\circ}58'$ hajlásszög és 20 m. távolság mellett = 16.18

» » » » » 8 » » » = 6.47

» » » » » 0.9 » » » = 0.73

» $12^{\circ}26'$ » » 28 » » » » = 6.17

» » » » » 0.9 » » » » = 0.20

A fa magassága = 29.75 m.

A «Rétegek metszőpontjai» című táblázatnak használata a
következő :

Legyen pl. a rétegek közötti szintkülönbség a hegységeknél általánosan használt 20 méter s egy ezen tangenstáblázat segítségével kiszámított pontnak tengerszínfölötti magassága 537 m., felfelé emelkedjék a talaj 8° -al, lefelé legyen 10° a hajlása.

$540 - 537 = 3$ méter szintkülömbségnek 8° -nál 21.3 m. vízszintes távolság felel meg s $537 - 520 = 17$ méter szintkülömbségnek 10° -nál 96,4 m., a mely távolságok a térképen a mért hajlás irányában tűzendők ki, hogy az 540-es illetve az 520-as rétegvonal egy pontját kapjuk.

*

Hogy szemlélhetővé tegyem, miképen készíthetők gyorsan tachymetrikus fölvétellel a sok célra szükséges, de különösen a legjobb közlekedési vonalak kipuhatolására nélkülözhetlen rétegvonalas térképek, röviden vázolom az erre szolgáló és sok évi gyakorlatban bevált eljárást.

Tachymetrikus felvételekre szilárdan álló busszolás-thedolitok, a vízszintes körön $1'$ és a magassági körön 1 vagy $2'$ -nyi leolvasással, a legalkalmasabbak.

Gyors szintezés végett czélszerűek a keresztlibellák; a magassági kör noniusa a parallax-mentes leolvasás miatt fönt vagy alant, de ne oldalt legyen alkalmazva s kiigazítása könnyen legyen eszközölhető. Egy forgatható busszola-osztáskör tegye lehetővé a mágneses észak-dél vonalnak beállítását a helyi meridiánba vagy a kataszteri osztálylap szélébe, miáltal mindjárt a megközelítőleg helyes azimuth-szögeket olvassuk le. A látócső legyen központi, áthajtható és az összeadó állandó kiküszöbölése végett anallatikus. Mivel az üvegre vésett osztóvonalak beporosodnak s így nem mutatnak tiszta képet, inkább ajánlhatók rossz világításnál is tisztán látható erősebb pókszálak. A szorzó állandó pontosan 100 legyen; ha nem az, akkor osszszuk be a léczet a műszerhez.

Vízszintes vagy legföljebb 2° -ig hajló talajon mérőléczekkel vagy egy jó aczélmérőszalaggal 10, 20, 30 stb. 100 métert vagy ölet pontosan lemérünk és az egyes pontok helyét megfúrt karókkal látjuk el. A műszert központosan a 0-ós karó fölé állítjuk s a léczet a lábán levő szöggel a 10, 20-as stb. karó pontjaiban pontosan függőlegesen tartatjuk. Az alsó és felső pókszál metszését a léczen egy annak széléhez támasztott háromszög segítségével jelöljük meg. Ha egy már beosztott lécz áll rendelkezésünkre, azt

állítatjuk az egyes karók pontjaiba s feljegyezzük minden pontnak a lécz beosztása szerinti távolságát; a kis különbségeket ki-egyenlítve a beosztandó léczünkre az így nyert osztásvonalakat visszük át. Annallatikus távcsőnél ezen közök mind egyenlők lesznek, közönségesnél ellenben a legközelebb eső 10 méternyi vagy ölnyi köz a legnagyobb lesz, a legtávolabb eső a legkisebb. A további beosztás méterekre, ölekre vagy kettős méterekre és azok tizedeire magától értetődik.

A mérőléczet sohase tartassuk szabadon, hanem mindig két pálczával támasztva, függélyesen. A függélyes tartás eszközölhetésére szolgál egy a lécz hátlapján fedett facsatornában alkalmazott 1 méter hosszú függélyző, melynek nehezeke szabad s csúcsával függőleges tartásnál szorosán egy vízszintes deszkácskán levő indexpont fölött lebeg. Vagy használhatunk e helyett egy rúd-függélyző mérleget vagyis egy a lécz oldalához tartott sze-lenczés libellát.

A fix- és poligon-pontok szögei a limbus- és a magassági körön a látcső mindkét helyzetében olvasandók le, a mellékpon-tokra nézve elegendő, ha csak egy helyzetben olvassuk le a delejtű északi és déli végét, meg a magassági szöget.

Hogy a szint-számításoknál ne kelljen a műszer- és lécz-leolvasás magassága közti különbségekkel bajlódni, hogy tehát mindjárt a talajnak valódi hajlását kapjuk, következőleg járjunk el:

Egy egyenes, egyenlő vastag, lent megvasalt $1\frac{1}{2}$ méter hosszú botba röjjük be a lécz beosztását. Ha a műszert színteztük, mérjük le a bottal annak magasságát a karó vagy határkő fejtől vagy a pusztá földtől a látcső forgástengelyéig a léczbeosztás egy-ségeiben. A távolságot leolvashatjuk ugyan a lécznek bármely részén, czélszerű azonban a középső pókszálat mindjárt a műszer-magasság tájékába vágatni s először a felső pókszáltól az alsóig azután az alsótól a felsőig olvassuk le a távolságot. Ha a léczle-olvasás hajlásszöge lényegesen különbözik a talaj hajlásszögétől, úgy azt külön jegyezzük fel, máskülönbén az nem szükséges. Ezután a középső pókszálat pontosan a lemért műszermagasságra vágatjuk be s ily módon a szintszámításokra szükséges valódi hajlásszögeket nyerjük.

Ha a műszer magasságában a lécz a talaj domborodása vagy bármi más által el van fedve, esetleg úgy segíthetünk magunkon, hogy hozzáadjuk a műszermagassághoz a távolságot s a felső pók-

szálat ezen magasabban fekvő lécz-osztásrészre vágatjuk be. Az alsó pókszál ekkor természetesen a műszermagasságot jelzi, a mely helyet jól megjegyezve a középső pókszálat addig süllyesztjük le.

Ez a műszer magasságát mérő bot mint kitűző rud, egyeneseknek a központból való kitűzésénél gyors tájékozásra, mint függélyező s különösen mint hegymászó bot igen jó szolgálatot tesz.

A mérési adatok följegyzésére a következő minta bizonyult be czélszerűnek. (Lásd a következő oldalon.)

A beirt adatok egy busszola-fölvételből erednek. Gyorsan tájékozódhatni, ha a természetben állandóan megjelölt pontokat, mint a határdombokat, határköveket arabs számokkal, ellenben a poligonpontokat (közbeeső határpontok számoztatnak) nagy s a mellékpontokat kis latin betűkkel jelöljük. A számok a kövekbe vagy sziklába vésővel vésetnek be vagy olajfestékkel rá lesznek festve, ellenben a bemért fákba vagy karókba egy külön e célra szolgáló számmetszővel vágatnak be. A bevágott számoknak ólomminium olajfestékkel való befestése sok éven át lehetővé teszi szembetűnősége által a könnyű megtalálást.

Igen czélszerű minden leolvasást ismételni s a helyes följegyzést aláhuzás által ellenőrizni; a néha rest delejtűt a busszola-üvegnek a közepén való gyengéd megkopogtatása által hozzuk a helyes állásba. Ezen eljárás mellett a terhes hibák, melyeknek fölkeresése oly sok időbe kerül, sőt néha a mérés ismétlését szükségessé teszik, teljesen kizáratnak.

A bemért ferde távolságok gyors és pontos vízszintesítésére szerzőnek átszámítási táblázatai a legalkalmasabbak, még pedig ha távolságmérővel mérettek a hosszak a $\cos^2\alpha$ -val s ha közvetlenül, a $\cos\alpha$ -val szerkesztett átszámítási táblázat, mivel azokban 1—100-ig minden távolságra s 46^0 -ig minden szögbe ki vannak a vízszintes távolságok számítva, tehát csak kiirandók belőlük.

A felvétel rajzolása leggyorsabban egy egyszerű felrakó készülékkel történik. Egy elegendő nagyságu rajztáblán baloldalt egy teljesen egyenes fémvonalzó van megerősítve, a melynek egy hornyában kaucsuk hengereken egy nagy áttört fémháromszög mozgatható. Ennek hiányában egy közönséges, máskülömben jó fémháromszög is megteszi a szolgálatot, csak mindig vigyázni kell arra, hogy a rajzolásnál szorosan simuljon a vonalzóhoz. A háromszög hosszu befogója az észak-déli irányt mutatja s egy szögirakó

(transzportőr) segítségével, melynek alapja szorosan a háromszöghöz simul, gyorsan megrajzolható minden szög.

Hogy az új irány mindig a szögrakó-vonalzó megvilágított oldalán legyen az előző ponton keresztül vonható, jó, ha az egyenlően széles és mindkét széle ferdén le van csapva. A teljes körű szögrakók elegendő pontos és gyors felhordást eredményeznek.

A távolságokat kerekcsucsu mikrométercsavaros (hajszal-) körzővel mérjük le s központosan szurjuk az irányra. A körözött poligonpontok felhordása után nullkörzővel a legvékonyabb hártypapíron azoknak pontos másolatát veszszük le s azt az eredeti felhordási térképekbe a háromszöghálózatba illesztve átszurjuk. Ha az elkerülhetetlen mérési és felhordási hibák következtében a rajzolt poligonrészlet kelleténél valamivel hosszabb, a szükséges kissebítés a másolatnak a meleg kályhához való tartása által gyorsan elérhető, ellenben ha nagyobbítani kell, a másolatot nedves levegő hatásának tesszük ki.

Nagyobb felmérések az országmérésekhez háromszöghálózat-tal csatlakozzanak. Ezáltal helyesen tájékoztatott jó mérés és rajz biztosíttatik.

A térképek sraffirozása csak szemrontó költséges játék, miáltal azok sötétek és nehezen olvashatókká lesznek. A rétegvonalak távolsága a talaj hajlását eléggé világosan mutatja s csak a sziklákat, kőbányákat, parthajlásokat, töltéseket és bevágásokat, katlanokat stb. jelölhetjük meg gyenge sraffokkal.

Midőn ezennel soraimat zárom, kívánom, hogy e művecske hozzájáruljon a térképelés tökéletesítéséhez és annak további következményeként a célszerűtlen utak építésének elkerüléséhez.

Oraviczán, 1900 év február havában.

Pohl János.

TANGENS-TÁBLÁZAT.

Távolság	0°										Távolság
	1'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0·000	0·001	0·001	0·002	0·002	0·003	0·003	0·004	0·005	0·005	1
2	0·001	0·001	0·002	0·003	0·005	0·006	0·007	0·008	0·009	0·010	2
4	0·001	0·002	0·005	0·007	0·009	0·012	0·014	0·016	0·019	0·021	4
6	0·002	0·003	0·007	0·010	0·014	0·017	0·021	0·024	0·028	0·031	6
8	0·002	0·005	0·009	0·014	0·019	0·023	0·028	0·033	0·037	0·042	8
10	0·003	0·006	0·012	0·017	0·023	0·029	0·035	0·041	0·047	0·052	10
12	0·003	0·007	0·014	0·021	0·028	0·035	0·042	0·049	0·056	0·063	12
14	0·004	0·008	0·016	0·024	0·033	0·041	0·049	0·057	0·065	0·073	14
16	0·005	0·009	0·019	0·028	0·037	0·047	0·056	0·065	0·074	0·084	16
18	0·005	0·010	0·021	0·031	0·042	0·052	0·063	0·073	0·084	0·094	18
20	0·006	0·012	0·023	0·035	0·047	0·058	0·070	0·081	0·093	0·105	20
22	0·006	0·013	0·026	0·038	0·051	0·064	0·077	0·090	0·102	0·115	22
24	0·007	0·014	0·028	0·042	0·056	0·070	0·084	0·098	0·112	0·126	24
26	0·008	0·015	0·030	0·045	0·060	0·076	0·091	0·106	0·121	0·136	26
28	0·008	0·016	0·033	0·049	0·065	0·081	0·098	0·114	0·130	0·147	28
30	0·009	0·017	0·035	0·052	0·070	0·087	0·105	0·122	0·140	0·157	30
32	0·009	0·019	0·037	0·056	0·074	0·093	0·112	0·130	0·149	0·168	32
34	0·010	0·020	0·040	0·059	0·079	0·099	0·119	0·138	0·158	0·178	34
36	0·010	0·021	0·042	0·063	0·084	0·105	0·126	0·147	0·168	0·189	36
38	0·011	0·022	0·044	0·066	0·088	0·111	0·133	0·155	0·177	0·199	38
40	0·012	0·023	0·047	0·070	0·093	0·116	0·140	0·163	0·186	0·209	40
42	0·012	0·024	0·049	0·073	0·098	0·122	0·147	0·171	0·195	0·220	42
44	0·013	0·026	0·051	0·077	0·102	0·128	0·154	0·179	0·205	0·230	44
46	0·013	0·027	0·054	0·080	0·107	0·134	0·161	0·187	0·214	0·241	46
48	0·014	0·028	0·056	0·084	0·112	0·140	0·168	0·195	0·223	0·251	48
50	0·015	0·029	0·058	0·087	0·116	0·145	0·175	0·204	0·233	0·262	50
52	0·015	0·030	0·061	0·091	0·121	0·151	0·182	0·212	0·242	0·272	52
54	0·016	0·031	0·063	0·094	0·126	0·157	0·188	0·220	0·251	0·283	54
56	0·016	0·033	0·065	0·098	0·130	0·163	0·195	0·228	0·261	0·293	56
58	0·017	0·034	0·067	0·101	0·135	0·169	0·202	0·236	0·270	0·304	58
60	0·017	0·035	0·070	0·105	0·140	0·175	0·209	0·244	0·279	0·314	60
62	0·018	0·036	0·072	0·108	0·144	0·180	0·216	0·252	0·289	0·325	62
64	0·019	0·037	0·074	0·112	0·149	0·186	0·223	0·261	0·298	0·335	64
66	0·019	0·038	0·077	0·115	0·154	0·192	0·230	0·269	0·307	0·346	66
68	0·020	0·040	0·079	0·119	0·158	0·198	0·237	0·277	0·316	0·356	68
70	0·020	0·041	0·081	0·122	0·163	0·204	0·244	0·285	0·326	0·367	70
72	0·021	0·042	0·084	0·126	0·168	0·209	0·251	0·293	0·335	0·377	72
74	0·022	0·043	0·086	0·129	0·172	0·215	0·258	0·301	0·344	0·387	74
76	0·022	0·044	0·088	0·133	0·177	0·221	0·265	0·309	0·354	0·398	76
78	0·023	0·045	0·091	0·136	0·181	0·227	0·272	0·318	0·363	0·408	78
80	0·023	0·047	0·093	0·140	0·186	0·233	0·279	0·326	0·372	0·419	80
82	0·024	0·048	0·095	0·143	0·191	0·239	0·286	0·334	0·382	0·429	82
84	0·024	0·049	0·098	0·147	0·195	0·244	0·293	0·342	0·391	0·440	84
86	0·025	0·050	0·100	0·150	0·200	0·250	0·300	0·350	0·400	0·450	86
88	0·026	0·051	0·102	0·154	0·205	0·256	0·307	0·358	0·410	0·461	88
90	0·026	0·052	0·105	0·157	0·209	0·262	0·314	0·367	0·419	0·471	90
92	0·027	0·054	0·107	0·161	0·214	0·268	0·321	0·375	0·428	0·482	92
94	0·027	0·055	0·109	0·164	0·219	0·273	0·328	0·383	0·438	0·492	94
96	0·028	0·056	0·112	0·168	0·223	0·279	0·335	0·391	0·447	0·503	96
98	0·028	0·057	0·114	0·171	0·228	0·285	0·342	0·399	0·456	0·513	98
100	0·029	0·058	0·116	0·175	0·233	0·291	0·349	0·407	0·465	0·524	100

Távolság	0°										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.006	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.011	1
2	0.012	0.013	0.014	0.015	0.016	0.017	0.019	0.020	0.021	0.022	2
4	0.023	0.026	0.028	0.030	0.033	0.035	0.037	0.040	0.042	0.044	4
6	0.035	0.038	0.042	0.045	0.049	0.052	0.056	0.059	0.063	0.066	6
8	0.047	0.051	0.056	0.060	0.065	0.070	0.074	0.079	0.084	0.088	8
10	0.058	0.064	0.070	0.076	0.081	0.087	0.093	0.099	0.105	0.111	10
12	0.070	0.077	0.084	0.091	0.098	0.105	0.112	0.119	0.126	0.133	12
14	0.081	0.090	0.098	0.106	0.114	0.122	0.130	0.138	0.147	0.155	14
16	0.093	0.102	0.112	0.121	0.130	0.140	0.149	0.158	0.168	0.177	16
18	0.105	0.115	0.126	0.136	0.147	0.157	0.168	0.178	0.188	0.199	18
20	0.116	0.128	0.140	0.151	0.163	0.175	0.186	0.198	0.209	0.221	20
22	0.128	0.141	0.154	0.166	0.179	0.192	0.205	0.218	0.230	0.243	22
24	0.140	0.154	0.168	0.182	0.195	0.209	0.223	0.237	0.251	0.265	24
26	0.151	0.166	0.182	0.197	0.212	0.227	0.242	0.257	0.272	0.287	26
28	0.163	0.179	0.195	0.212	0.228	0.244	0.261	0.277	0.293	0.310	28
30	0.175	0.192	0.209	0.227	0.244	0.262	0.279	0.297	0.314	0.332	30
32	0.186	0.205	0.223	0.242	0.261	0.279	0.298	0.316	0.335	0.354	32
34	0.198	0.218	0.237	0.257	0.277	0.297	0.316	0.236	0.356	0.376	34
36	0.209	0.230	0.251	0.272	0.293	0.314	0.335	0.356	0.377	0.398	36
38	0.221	0.243	0.265	0.287	0.310	0.332	0.354	0.376	0.398	0.420	38
40	0.233	0.256	0.279	0.303	0.326	0.349	0.372	0.306	0.419	0.442	40
42	0.244	0.269	0.293	0.318	0.342	0.367	0.391	0.415	0.440	0.464	42
44	0.256	0.282	0.307	0.333	0.358	0.384	0.410	0.435	0.461	0.486	44
46	0.268	0.294	0.321	0.348	0.375	0.401	0.428	0.455	0.482	0.508	46
48	0.279	0.307	0.335	0.363	0.391	0.419	0.447	0.475	0.503	0.531	48
50	0.291	0.320	0.349	0.378	0.407	0.436	0.465	0.495	0.524	0.553	50
52	0.303	0.333	0.363	0.393	0.424	0.454	0.484	0.514	0.545	0.575	52
54	0.314	0.346	0.377	0.408	0.440	0.471	0.503	0.534	0.565	0.597	54
56	0.326	0.358	0.391	0.424	0.456	0.489	0.521	0.554	0.586	0.619	56
58	0.337	0.371	0.405	0.439	0.472	0.506	0.540	0.574	0.607	0.641	58
60	0.349	0.384	0.419	0.454	0.489	0.524	0.559	0.593	0.628	0.663	60
62	0.361	0.397	0.433	0.469	0.505	0.541	0.577	0.613	0.649	0.685	62
64	0.372	0.410	0.447	0.484	0.521	0.559	0.596	0.633	0.670	0.707	64
66	0.384	0.422	0.461	0.499	0.538	0.576	0.614	0.653	0.691	0.730	66
68	0.396	0.435	0.475	0.514	0.554	0.593	0.633	0.673	0.712	0.752	68
70	0.407	0.448	0.489	0.529	0.570	0.611	0.652	0.692	0.733	0.774	70
72	0.419	0.461	0.503	0.545	0.586	0.628	0.670	0.712	0.754	0.796	72
74	0.431	0.474	0.517	0.560	0.603	0.646	0.689	0.732	0.775	0.818	74
76	0.442	0.486	0.531	0.575	0.619	0.663	0.707	0.752	0.796	0.840	76
78	0.454	0.499	0.545	0.590	0.635	0.681	0.726	0.771	0.817	0.862	78
80	0.465	0.512	0.559	0.605	0.652	0.698	0.745	0.791	0.838	0.884	80
82	0.477	0.525	0.572	0.620	0.668	0.716	0.763	0.811	0.859	0.906	82
84	0.489	0.538	0.586	0.635	0.684	0.733	0.782	0.831	0.880	0.929	84
86	0.500	0.550	0.600	0.650	0.700	0.751	0.801	0.851	0.901	0.951	86
88	0.512	0.563	0.614	0.666	0.717	0.768	0.819	0.870	0.922	0.973	88
90	0.524	0.576	0.628	0.681	0.733	0.785	0.838	0.890	0.943	0.995	90
92	0.535	0.589	0.642	0.696	0.749	0.803	0.856	0.910	0.963	1.017	92
94	0.547	0.602	0.656	0.711	0.766	0.820	0.875	0.930	0.984	1.039	94
96	0.559	0.614	0.670	0.726	0.782	0.838	0.894	0.949	1.005	1.061	96
98	0.570	0.627	0.684	0.741	0.798	0.855	0.912	0.969	1.026	1.083	98
100	0.582	0.640	0.698	0.756	0.815	0.873	0.931	0.989	1.047	1.105	100

Távolság	0°										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0·012	0·012	0·013	0·013	0·014	0·015	0·015	0·016	0·016	0·017	1
2	0·023	0·024	0·026	0·027	0·028	0·029	0·030	0·031	0·033	0·034	2
4	0·047	0·049	0·051	0·054	0·056	0·058	0·061	0·063	0·065	0·067	4
6	0·070	0·073	0·077	0·080	0·084	0·087	0·091	0·094	0·098	0·101	6
8	0·093	0·098	0·102	0·107	0·112	0·116	0·121	0·126	0·130	0·135	8
10	0·116	0·122	0·128	0·134	0·140	0·145	0·151	0·157	0·163	0·169	10
12	0·140	0·147	0·154	0·161	0·168	0·175	0·182	0·189	0·195	0·202	12
14	0·163	0·171	0·179	0·187	0·195	0·204	0·212	0·220	0·228	0·236	14
16	0·186	0·195	0·205	0·214	0·223	0·233	0·242	0·251	0·261	0·270	16
18	0·209	0·220	0·230	0·241	0·251	0·262	0·272	0·283	0·293	0·304	18
20	0·233	0·244	0·256	0·268	0·279	0·291	0·303	0·314	0·326	0·337	20
22	0·256	0·269	0·282	0·294	0·307	0·320	0·333	0·346	0·358	0·371	22
24	0·279	0·293	0·307	0·321	0·335	0·349	0·363	0·377	0·391	0·405	24
26	0·303	0·318	0·333	0·348	0·363	0·378	0·393	0·408	0·424	0·439	26
28	0·326	0·342	0·358	0·375	0·391	0·407	0·424	0·440	0·456	0·472	28
30	0·349	0·367	0·384	0·401	0·419	0·436	0·454	0·471	0·489	0·506	30
32	0·372	0·391	0·410	0·428	0·447	0·465	0·484	0·503	0·521	0·540	32
34	0·396	0·415	0·435	0·455	0·475	0·495	0·514	0·534	0·554	0·574	34
36	0·419	0·440	0·461	0·482	0·503	0·524	0·545	0·566	0·586	0·607	36
38	0·442	0·464	0·486	0·508	0·531	0·553	0·575	0·597	0·619	0·641	38
40	0·465	0·489	0·512	0·535	0·559	0·582	0·605	0·628	0·652	0·675	40
42	0·489	0·513	0·538	0·562	0·586	0·611	0·635	0·660	0·684	0·709	42
44	0·512	0·538	0·563	0·589	0·614	0·640	0·666	0·691	0·717	0·742	44
46	0·535	0·562	0·589	0·616	0·642	0·669	0·696	0·723	0·749	0·776	46
48	0·559	0·586	0·614	0·642	0·670	0·698	0·726	0·754	0·782	0·810	48
50	0·582	0·611	0·640	0·669	0·698	0·727	0·756	0·785	0·815	0·844	50
52	0·605	0·635	0·666	0·696	0·726	0·756	0·787	0·817	0·847	0·877	52
54	0·628	0·660	0·691	0·723	0·754	0·785	0·817	0·848	0·880	0·911	54
56	0·652	0·684	0·717	0·749	0·782	0·815	0·847	0·880	0·912	0·945	56
58	0·675	0·709	0·742	0·776	0·810	0·844	0·877	0·911	0·945	0·979	58
60	0·698	0·733	0·768	0·803	0·838	0·873	0·908	0·943	0·977	1·012	60
62	0·721	0·758	0·794	0·830	0·866	0·902	0·938	0·974	1·010	1·046	62
64	0·745	0·782	0·819	0·856	0·894	0·931	0·968	1·005	1·043	1·080	64
66	0·768	0·806	0·845	0·883	0·922	0·960	0·998	1·037	1·075	1·114	66
68	0·791	0·831	0·870	0·910	0·949	0·989	1·029	1·068	1·108	1·147	68
70	0·815	0·855	0·896	0·937	0·977	1·018	1·059	1·100	1·140	1·181	70
72	0·838	0·880	0·922	0·963	1·005	1·047	1·089	1·131	1·173	1·215	72
74	0·861	0·904	0·947	0·990	1·033	1·076	1·119	1·162	1·206	1·249	74
76	0·884	0·929	0·973	1·017	1·061	1·105	1·150	1·194	1·238	1·282	76
78	0·908	0·953	0·998	1·044	1·089	1·135	1·180	1·225	1·271	1·316	78
80	0·931	0·977	1·024	1·071	1·117	1·164	1·210	1·257	1·303	1·350	80
82	0·954	1·002	1·050	1·097	1·145	1·193	1·240	1·288	1·336	1·384	82
84	0·977	1·026	1·075	1·124	1·173	1·222	1·271	1·320	1·368	1·417	84
86	1·001	1·051	1·101	1·151	1·201	1·251	1·301	1·351	1·401	1·451	86
88	1·024	1·075	1·126	1·178	1·229	1·280	1·331	1·382	1·434	1·485	88
90	1·047	1·100	1·152	1·204	1·257	1·309	1·361	1·414	1·466	1·519	90
92	1·071	1·124	1·178	1·231	1·285	1·338	1·392	1·445	1·499	1·552	92
94	1·094	1·148	1·203	1·258	1·313	1·367	1·422	1·477	1·531	1·586	94
96	1·117	1·173	1·229	1·285	1·340	1·396	1·452	1·508	1·564	1·620	96
98	1·140	1·197	1·254	1·311	1·368	1·425	1·482	1·539	1·597	1·654	98
100	1·164	1·222	1·280	1·338	1·396	1·454	1·513	1·571	1·629	1·687	100

Távolság	1 ⁰										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0·017	0·018	0·019	0·019	0·020	0·020	0·021	0·022	0·022	0·023	1
2	0·035	0·036	0·037	0·038	0·040	0·041	0·042	0·043	0·044	0·045	2
4	0·070	0·072	0·074	0·077	0·079	0·081	0·084	0·086	0·088	0·091	4
6	0·105	0·108	0·112	0·115	0·119	0·122	0·126	0·129	0·133	0·136	6
8	0·140	0·144	0·149	0·154	0·158	0·163	0·168	0·172	0·177	0·182	8
10	0·175	0·180	0·186	0·192	0·198	0·204	0·209	0·215	0·221	0·227	10
12	0·209	0·216	0·223	0·230	0·237	0·244	0·251	0·258	0·265	0·272	12
14	0·244	0·253	0·261	0·269	0·277	0·285	0·293	0·301	0·310	0·318	14
16	0·279	0·289	0·298	0·307	0·317	0·326	0·335	0·344	0·354	0·363	16
18	0·314	0·325	0·335	0·346	0·356	0·367	0·377	0·388	0·398	0·408	18
20	0·349	0·361	0·372	0·384	0·396	0·407	0·419	0·431	0·442	0·454	20
22	0·384	0·397	0·410	0·422	0·435	0·448	0·461	0·474	0·486	0·499	22
24	0·419	0·433	0·447	0·461	0·475	0·489	0·503	0·517	0·531	0·545	24
26	0·454	0·469	0·484	0·499	0·514	0·529	0·545	0·560	0·575	0·590	26
28	0·489	0·505	0·521	0·538	0·554	0·570	0·587	0·603	0·619	0·635	28
30	0·524	0·541	0·559	0·576	0·593	0·611	0·628	0·646	0·663	0·681	30
32	0·559	0·577	0·596	0·614	0·633	0·652	0·670	0·689	0·708	0·726	32
34	0·593	0·613	0·633	0·653	0·673	0·692	0·712	0·732	0·752	0·772	34
36	0·628	0·649	0·670	0·691	0·712	0·733	0·754	0·775	0·796	0·817	36
38	0·663	0·685	0·708	0·730	0·752	0·774	0·796	0·818	0·840	0·862	38
40	0·698	0·721	0·745	0·768	0·791	0·815	0·838	0·861	0·884	0·908	40
42	0·733	0·758	0·782	0·806	0·831	0·855	0·880	0·904	0·929	0·953	42
44	0·768	0·794	0·819	0·845	0·870	0·896	0·922	0·947	0·973	0·998	44
46	0·803	0·830	0·856	0·883	0·910	0·937	0·964	0·990	1·017	1·044	46
48	0·838	0·866	0·894	0·922	0·950	0·978	1·005	1·033	1·061	1·089	48
50	0·873	0·902	0·931	0·960	0·989	1·018	1·047	1·076	1·106	1·135	50
52	0·908	0·938	0·968	0·998	1·029	1·059	1·089	1·119	1·150	1·180	52
54	0·943	0·974	1·005	1·037	1·068	1·100	1·131	1·163	1·194	1·225	54
56	0·977	1·010	1·043	1·075	1·108	1·140	1·173	1·206	1·238	1·271	56
58	1·012	1·046	1·080	1·114	1·147	1·181	1·215	1·249	1·282	1·316	58
60	1·047	1·082	1·117	1·152	1·187	1·222	1·257	1·292	1·327	1·362	60
62	1·082	1·118	1·154	1·190	1·227	1·263	1·299	1·335	1·371	1·407	62
64	1·117	1·154	1·192	1·229	1·266	1·303	1·341	1·378	1·415	1·452	64
66	1·152	1·190	1·229	1·267	1·306	1·344	1·383	1·421	1·459	1·498	66
68	1·187	1·227	1·266	1·306	1·345	1·385	1·424	1·464	1·504	1·543	68
70	1·222	1·263	1·303	1·344	1·385	1·426	1·466	1·507	1·548	1·589	70
72	1·257	1·299	1·341	1·382	1·424	1·466	1·508	1·550	1·592	1·634	72
74	1·292	1·335	1·378	1·421	1·464	1·507	1·550	1·593	1·636	1·679	74
76	1·327	1·371	1·415	1·459	1·504	1·548	1·592	1·636	1·680	1·725	76
78	1·361	1·407	1·452	1·498	1·543	1·588	1·634	1·679	1·725	1·770	78
80	1·396	1·443	1·490	1·536	1·583	1·629	1·676	1·722	1·769	1·815	80
82	1·431	1·479	1·527	1·574	1·622	1·670	1·718	1·765	1·813	1·861	82
84	1·466	1·515	1·564	1·613	1·662	1·711	1·760	1·808	1·857	1·906	84
86	1·501	1·551	1·601	1·651	1·701	1·751	1·801	1·851	1·902	1·952	86
88	1·536	1·587	1·638	1·690	1·741	1·792	1·843	1·895	1·946	1·997	88
90	1·571	1·623	1·676	1·728	1·780	1·833	1·885	1·938	1·990	2·042	90
92	1·606	1·659	1·713	1·766	1·820	1·874	1·927	1·981	2·034	2·088	92
94	1·641	1·695	1·750	1·805	1·860	1·914	1·969	2·024	2·078	2·133	94
96	1·676	1·732	1·787	1·843	1·899	1·955	2·011	2·067	2·123	2·179	96
98	1·711	1·768	1·825	1·882	1·939	1·996	2·053	2·110	2·167	2·224	98
100	1·745	1·804	1·862	1·920	1·978	2·036	2·095	2·153	2·211	2·269	100

Távolság	1 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	1
2	0.047	0.048	0.049	0.050	0.051	0.052	0.054	0.055	0.056	0.057	2
4	0.093	0.095	0.098	0.100	0.102	0.105	0.107	0.109	0.112	0.114	4
6	0.140	0.143	0.147	0.150	0.154	0.157	0.161	0.164	0.168	0.171	6
8	0.186	0.191	0.196	0.200	0.205	0.209	0.214	0.219	0.223	0.228	8
10	0.233	0.239	0.244	0.250	0.256	0.262	0.268	0.273	0.279	0.285	10
12	0.279	0.286	0.293	0.300	0.307	0.314	0.321	0.328	0.335	0.342	12
14	0.326	0.334	0.342	0.350	0.358	0.367	0.375	0.383	0.391	0.399	14
16	0.372	0.382	0.391	0.400	0.410	0.419	0.428	0.438	0.447	0.456	16
18	0.419	0.429	0.440	0.450	0.461	0.471	0.482	0.492	0.503	0.513	18
20	0.465	0.477	0.489	0.500	0.512	0.524	0.535	0.547	0.559	0.570	20
22	0.512	0.525	0.538	0.550	0.563	0.576	0.589	0.602	0.615	0.627	22
24	0.559	0.573	0.587	0.601	0.614	0.628	0.642	0.656	0.670	0.684	24
26	0.605	0.620	0.635	0.651	0.666	0.681	0.696	0.711	0.726	0.741	26
28	0.652	0.668	0.684	0.701	0.717	0.733	0.750	0.766	0.782	0.798	28
30	0.698	0.716	0.733	0.751	0.768	0.786	0.803	0.820	0.838	0.855	30
32	0.745	0.763	0.782	0.801	0.819	0.838	0.857	0.875	0.894	0.912	32
34	0.791	0.811	0.831	0.851	0.871	0.890	0.910	0.930	0.950	0.970	34
36	0.838	0.859	0.880	0.901	0.922	0.943	0.964	0.985	1.006	1.027	36
38	0.884	0.907	0.929	0.951	0.973	0.995	1.017	1.039	1.061	1.084	38
40	0.931	0.954	0.978	1.001	1.024	1.047	1.071	1.094	1.117	1.141	40
42	0.978	1.002	1.026	1.051	1.075	1.100	1.124	1.149	1.173	1.198	42
44	1.024	1.050	1.075	1.101	1.127	1.152	1.178	1.203	1.229	1.255	44
46	1.071	1.097	1.124	1.151	1.178	1.205	1.231	1.258	1.285	1.312	46
48	1.117	1.145	1.173	1.201	1.229	1.257	1.285	1.313	1.341	1.369	48
50	1.164	1.193	1.222	1.251	1.280	1.309	1.338	1.367	1.397	1.426	50
52	1.210	1.241	1.271	1.301	1.331	1.362	1.392	1.422	1.453	1.483	52
54	1.257	1.288	1.320	1.351	1.383	1.414	1.445	1.477	1.508	1.540	54
56	1.303	1.336	1.369	1.401	1.434	1.466	1.499	1.532	1.564	1.597	56
58	1.350	1.384	1.417	1.451	1.485	1.519	1.553	1.586	1.620	1.654	58
60	1.396	1.431	1.466	1.501	1.536	1.571	1.606	1.641	1.676	1.711	60
62	1.443	1.479	1.515	1.551	1.587	1.624	1.660	1.696	1.732	1.768	62
64	1.490	1.527	1.564	1.601	1.639	1.676	1.713	1.750	1.788	1.825	64
66	1.536	1.575	1.613	1.651	1.690	1.728	1.767	1.805	1.844	1.882	66
68	1.583	1.622	1.662	1.701	1.741	1.781	1.820	1.860	1.899	1.939	68
70	1.629	1.670	1.711	1.752	1.792	1.833	1.874	1.914	1.955	1.996	70
72	1.676	1.718	1.760	1.802	1.843	1.885	1.927	1.969	2.011	2.053	72
74	1.722	1.765	1.808	1.852	1.895	1.938	1.981	2.024	2.067	2.110	74
76	1.769	1.813	1.857	1.902	1.946	1.990	2.034	2.079	2.123	2.167	76
78	1.815	1.861	1.906	1.952	1.997	2.043	2.088	2.133	2.179	2.224	78
80	1.862	1.909	1.955	2.002	2.048	2.095	2.141	2.188	2.235	2.281	80
82	1.909	1.956	2.004	2.052	2.100	2.147	2.195	2.243	2.290	2.338	82
84	1.955	2.004	2.053	2.102	2.151	2.200	2.249	2.297	2.346	2.395	84
86	2.002	2.052	2.102	2.152	2.202	2.252	2.302	2.352	2.402	2.452	86
88	2.048	2.099	2.151	2.202	2.253	2.304	2.356	2.407	2.458	2.509	88
90	2.095	2.147	2.200	2.252	2.304	2.357	2.409	2.461	2.514	2.566	90
92	2.141	2.195	2.248	2.302	2.356	2.409	2.463	2.516	2.570	2.623	92
94	2.188	2.243	2.297	2.352	2.407	2.461	2.516	2.571	2.626	2.680	94
96	2.234	2.290	2.346	2.402	2.458	2.514	2.570	2.626	2.682	2.737	96
98	2.281	2.338	2.395	2.452	2.509	2.566	2.623	2.680	2.737	2.794	98
100	2.327	2.386	2.444	2.502	2.560	2.619	2.677	2.735	2.793	2.851	100

Távolság	1 ⁰										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0.029	0.030	0.030	0.031	0.031	0.032	0.033	0.033	0.034	0.034	1
2	0.058	0.059	0.061	0.062	0.063	0.064	0.065	0.066	0.068	0.069	2
4	0.116	0.119	0.121	0.123	0.126	0.128	0.130	0.133	0.135	0.137	4
6	0.175	0.178	0.182	0.185	0.189	0.192	0.196	0.199	0.203	0.206	6
8	0.233	0.237	0.242	0.247	0.251	0.256	0.261	2.265	0.270	0.275	8
10	0.291	0.297	0.303	0.308	0.314	0.320	0.326	0.332	0.338	0.343	10
12	0.349	0.356	0.363	0.370	0.377	0.384	0.391	0.398	0.405	0.412	12
14	0.407	0.416	0.424	0.432	0.440	0.448	0.456	0.464	0.473	0.481	14
16	0.466	0.475	0.484	0.494	0.503	0.512	0.521	0.531	0.540	0.549	16
18	0.524	0.534	0.545	0.555	0.566	0.576	0.587	0.597	0.608	0.618	18
20	0.582	0.594	0.605	0.617	0.629	0.640	0.652	0.663	0.675	0.687	20
22	0.640	0.653	0.666	0.679	0.691	0.704	0.717	0.730	0.743	0.755	22
24	0.698	0.712	0.726	0.740	0.754	0.768	0.782	0.796	0.810	0.824	24
26	0.757	0.772	0.787	0.802	0.817	0.832	0.847	0.862	0.878	0.893	26
28	0.815	0.831	0.847	0.864	0.880	0.896	0.913	0.929	0.945	0.961	28
30	0.873	0.890	0.908	0.925	0.943	0.960	0.978	0.995	1.013	1.030	30
32	0.931	0.950	0.968	0.987	1.006	1.024	1.043	1.062	1.080	1.099	32
34	0.989	1.009	1.029	1.049	1.068	1.088	1.108	1.128	1.148	1.167	34
36	1.047	1.068	1.089	1.110	1.131	1.152	1.173	1.194	1.215	1.236	36
38	1.106	1.128	1.150	1.172	1.194	1.216	1.238	1.261	1.283	1.305	38
40	1.164	1.187	1.210	1.234	1.257	1.280	1.304	1.327	1.350	1.374	40
42	1.222	1.247	1.271	1.295	1.320	1.344	1.369	1.393	1.418	1.442	42
44	1.280	1.306	1.332	1.357	1.383	1.408	1.434	1.460	1.485	1.511	44
46	1.338	1.365	1.392	1.419	1.446	1.472	1.499	1.526	1.553	1.580	46
48	1.397	1.425	1.453	1.481	1.508	1.536	1.564	1.592	1.620	1.648	48
50	1.455	1.484	1.513	1.542	1.571	1.600	1.630	1.659	1.688	1.717	50
52	1.513	1.543	1.574	1.604	1.634	1.664	1.695	1.725	1.755	1.786	52
54	1.571	1.603	1.634	1.666	1.697	1.728	1.760	1.791	1.823	1.854	54
56	1.629	1.662	1.695	1.727	1.760	1.792	1.825	1.858	1.890	1.923	56
58	1.688	1.721	1.755	1.789	1.823	1.856	1.890	1.924	1.958	1.992	58
60	1.746	1.781	1.816	1.851	1.886	1.920	1.955	1.990	2.025	2.060	60
62	1.804	1.840	1.876	1.912	1.948	1.984	2.021	2.057	2.093	2.129	62
64	1.862	1.899	1.937	1.974	2.011	2.049	2.086	2.123	2.160	2.198	64
66	1.920	1.959	1.997	2.036	2.074	2.113	2.151	2.189	2.228	2.266	66
68	1.979	2.018	2.058	2.097	2.137	2.177	2.216	2.256	2.295	2.335	68
70	2.037	2.078	2.118	2.159	2.200	2.241	2.281	2.322	2.363	2.404	70
72	2.095	2.137	2.179	2.221	2.263	2.305	2.347	2.388	2.430	2.472	72
74	2.153	2.196	2.239	2.282	2.326	2.369	2.412	2.455	2.498	2.541	74
76	2.211	2.256	2.300	2.344	2.388	2.433	2.477	2.521	2.565	2.610	76
78	2.270	2.315	2.360	2.406	2.451	2.497	2.542	2.587	2.633	2.678	78
80	2.328	2.374	2.421	2.468	2.514	2.561	2.607	2.654	2.700	2.747	80
82	2.386	2.434	2.481	2.529	2.577	2.625	2.672	2.720	2.768	2.816	82
84	2.444	2.493	2.542	2.591	2.640	2.689	2.738	2.787	2.835	2.884	84
86	2.502	2.552	2.603	2.653	2.703	2.753	2.803	2.853	2.903	2.953	86
88	2.561	2.612	2.663	2.714	2.765	2.817	2.868	2.919	2.971	3.022	88
90	2.619	2.671	2.724	2.776	2.828	2.881	2.933	2.986	3.038	3.090	90
92	2.677	2.730	2.784	2.838	2.891	2.945	2.998	3.052	3.106	3.159	92
94	2.735	2.790	2.845	2.899	2.954	3.009	3.064	3.118	3.173	3.228	94
96	2.793	2.849	2.905	2.961	3.017	3.073	3.129	3.185	3.241	3.296	96
98	2.851	2.909	2.966	3.023	3.080	3.137	3.194	3.251	3.308	3.365	98
100	2.910	2.986	3.026	3.084	3.143	3.201	3.259	3.317	3.376	3.434	100

Távolság	2 ^o										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.035	0.035	0.036	0.037	0.037	0.038	0.038	0.039	0.040	0.040	1
2	0.070	0.071	0.072	0.073	0.075	0.076	0.077	0.078	0.079	0.080	2
4	0.140	0.142	0.144	0.147	0.149	0.151	0.154	0.156	0.158	0.161	4
6	0.210	0.213	0.217	0.220	0.224	0.227	0.230	0.234	0.237	0.241	6
8	0.279	0.284	0.289	0.293	0.298	0.303	0.307	0.312	0.317	0.321	8
10	0.349	0.355	0.361	0.367	0.373	0.378	0.384	0.390	0.396	0.402	10
12	0.419	0.426	0.433	0.440	0.447	0.454	0.461	0.468	0.475	0.482	12
14	0.489	0.497	0.505	0.513	0.522	0.530	0.538	0.546	0.554	0.562	14
16	0.559	0.568	0.577	0.587	0.596	0.605	0.615	0.624	0.633	0.643	16
18	0.629	0.639	0.650	0.660	0.671	0.681	0.691	0.702	0.712	0.723	18
20	0.698	0.710	0.722	0.733	0.745	0.757	0.768	0.780	0.792	0.803	20
22	0.768	0.781	0.794	0.807	0.820	0.832	0.845	0.858	0.871	0.884	22
24	0.838	0.852	0.866	0.880	0.894	0.908	0.922	0.936	0.950	0.964	24
26	0.908	0.923	0.938	0.953	0.969	0.984	0.999	1.014	1.029	1.044	26
28	0.978	0.994	1.010	1.027	1.043	1.059	1.076	1.092	1.108	1.125	28
30	1.048	1.065	1.083	1.100	1.118	1.135	1.152	1.170	1.187	1.205	30
32	1.117	1.136	1.155	1.173	1.192	1.211	1.229	1.248	1.267	1.285	32
34	1.187	1.207	1.227	1.247	1.267	1.286	1.306	1.326	1.346	1.366	34
36	1.257	1.278	1.309	1.320	1.341	1.362	1.383	1.404	1.425	1.446	36
38	1.327	1.349	1.371	1.393	1.416	1.438	1.460	1.482	1.504	1.526	38
40	1.397	1.420	1.443	1.467	1.490	1.513	1.537	1.560	1.583	1.607	40
42	1.467	1.491	1.516	1.540	1.565	1.589	1.613	1.638	1.662	1.687	42
44	1.537	1.562	1.588	1.613	1.639	1.665	1.690	1.716	1.742	1.767	44
46	1.606	1.633	1.660	1.687	1.714	1.740	1.767	1.794	1.821	1.848	46
48	1.676	1.704	1.732	1.760	1.788	1.816	1.844	1.872	1.900	1.928	48
50	1.746	1.775	1.804	1.833	1.863	1.892	1.921	1.950	1.979	2.008	50
52	1.816	1.846	1.876	1.907	1.937	1.967	1.998	2.028	2.058	2.089	52
54	1.886	1.917	1.949	1.980	2.012	2.043	2.074	2.106	2.137	2.169	54
56	1.956	1.988	2.021	2.053	2.086	2.119	2.151	2.184	2.217	2.249	56
58	2.025	2.059	2.093	2.127	2.161	2.194	2.228	2.262	2.296	2.330	58
60	2.095	2.130	2.165	2.200	2.235	2.270	2.305	2.340	2.375	2.410	60
62	2.165	2.201	2.237	2.273	2.310	2.346	2.382	2.418	2.454	2.490	62
64	2.235	2.272	2.310	2.347	2.384	2.421	2.459	2.496	2.533	2.570	64
66	2.305	2.343	2.382	2.420	2.459	2.497	2.535	2.574	2.612	2.651	66
68	2.375	2.414	2.454	2.493	2.533	2.573	2.612	2.652	2.692	2.731	68
70	2.444	2.485	2.526	2.567	2.608	2.648	2.689	2.730	2.771	2.811	70
72	2.514	2.556	2.598	2.640	2.682	2.724	2.766	2.808	2.850	2.892	72
74	2.584	2.627	2.670	2.713	2.757	2.800	2.843	2.886	2.929	2.972	74
76	2.654	2.698	2.743	2.787	2.831	2.875	2.920	2.964	3.008	3.052	76
78	2.724	2.769	2.815	2.860	2.906	2.951	2.996	3.042	3.087	3.133	78
80	2.794	2.840	2.887	2.933	2.980	3.027	3.073	3.120	3.167	3.213	80
82	2.864	2.911	2.959	3.007	3.055	3.102	3.150	3.198	3.246	3.293	82
84	2.933	2.982	3.031	3.080	3.129	3.178	3.227	3.276	3.325	3.374	84
86	3.003	3.053	3.103	3.153	3.204	3.254	3.304	3.354	3.404	3.454	86
88	3.073	3.124	3.176	3.227	3.278	3.329	3.381	3.432	3.483	3.534	88
90	3.143	3.195	3.248	3.300	3.353	3.405	3.457	3.510	3.562	3.615	90
92	3.213	3.266	3.320	3.373	3.427	3.481	3.534	3.588	3.642	3.695	92
94	3.283	3.337	3.392	3.447	3.502	3.556	3.611	3.666	3.721	3.775	94
96	3.352	3.408	3.464	3.520	3.576	3.632	3.688	3.744	3.800	3.856	96
98	3.422	3.479	3.536	3.593	3.651	3.708	3.765	3.822	3.879	3.936	98
100	3.492	3.550	3.609	3.667	3.725	3.783	3.842	3.900	3.958	4.016	100

Távolság	2 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.041	0.041	0.042	0.042	0.043	0.044	0.044	0.045	0.045	0.046	1
2	0.081	0.083	0.084	0.085	0.086	0.087	0.088	0.090	0.091	0.092	2
4	0.163	0.165	0.168	0.170	0.172	0.175	0.177	0.179	0.182	0.184	4
6	0.244	0.248	0.251	0.255	0.258	0.262	0.265	0.269	0.272	0.276	6
8	0.326	0.331	0.335	0.340	0.345	0.349	0.354	0.359	0.363	0.368	8
10	0.407	0.413	0.419	0.425	0.431	0.437	0.442	0.448	0.454	0.460	10
12	0.489	0.496	0.503	0.510	0.517	0.524	0.531	0.538	0.545	0.552	12
14	0.570	0.579	0.587	0.595	0.603	0.611	0.619	0.628	0.636	0.644	14
16	0.652	0.661	0.671	0.680	0.689	0.699	0.708	0.717	0.727	0.736	16
18	0.733	0.744	0.754	0.765	0.775	0.786	0.796	0.807	0.817	0.828	18
20	0.815	0.827	0.838	0.850	0.862	0.873	0.885	0.897	0.908	0.920	20
22	0.896	0.909	0.922	0.935	0.948	0.961	0.973	0.986	0.999	1.012	22
24	0.978	0.992	1.006	1.020	1.034	1.048	1.062	1.076	1.090	1.104	24
26	1.059	1.075	1.090	1.105	1.120	1.135	1.150	1.166	1.181	1.196	26
28	1.141	1.157	1.174	1.190	1.206	1.223	1.239	1.255	1.271	1.288	28
30	1.222	1.240	1.257	1.275	1.292	1.310	1.327	1.345	1.362	1.380	30
32	1.304	1.323	1.341	1.360	1.378	1.397	1.416	1.434	1.453	1.472	32
34	1.385	1.405	1.425	1.445	1.465	1.484	1.504	1.524	1.544	1.564	34
36	1.467	1.488	1.509	1.530	1.551	1.572	1.593	1.614	1.635	1.656	36
38	1.548	1.571	1.593	1.615	1.637	1.659	1.681	1.703	1.726	1.748	38
40	1.630	1.653	1.676	1.700	1.723	1.746	1.770	1.793	1.816	1.840	40
42	1.711	1.736	1.760	1.785	1.809	1.834	1.858	1.883	1.907	1.932	42
44	1.793	1.819	1.844	1.870	1.895	1.921	1.947	1.972	1.998	2.024	44
46	1.874	1.901	1.928	1.955	1.982	2.008	2.035	2.062	2.089	2.116	46
48	1.956	1.984	2.012	2.040	2.068	2.096	2.124	2.152	2.180	2.208	48
50	2.037	2.066	2.096	2.125	2.154	2.183	2.212	2.241	2.270	2.300	50
52	2.119	2.149	2.179	2.210	2.240	2.270	2.301	2.331	2.361	2.392	52
54	2.200	2.232	2.263	2.295	2.326	2.358	2.389	2.421	2.452	2.484	54
56	2.282	2.314	2.347	2.380	2.412	2.445	2.478	2.510	3.543	2.576	56
58	2.363	2.397	2.431	2.465	2.499	2.532	2.566	2.600	2.634	2.668	58
60	2.445	2.480	2.515	2.550	2.585	2.620	2.655	2.690	2.725	2.760	60
62	2.526	2.562	2.599	2.635	2.671	2.707	2.743	2.779	2.814	2.852	62
64	2.608	2.645	2.682	2.720	2.757	2.794	2.832	2.869	2.906	2.944	64
66	2.689	2.728	2.766	2.805	2.843	2.882	2.920	2.959	2.997	3.036	66
68	2.771	2.810	2.850	2.890	2.929	2.969	3.009	3.048	3.088	3.128	68
70	2.852	2.893	2.934	2.975	3.015	3.056	3.097	3.138	3.179	3.220	70
72	2.934	2.976	3.018	3.060	3.102	3.144	3.186	3.228	3.270	3.311	72
74	3.015	3.058	3.101	3.145	3.188	3.231	3.274	3.317	3.360	3.403	74
76	3.097	3.141	3.185	3.230	3.274	3.318	3.363	3.407	3.451	3.495	76
78	3.178	3.224	3.269	3.315	3.360	3.406	3.451	3.497	3.542	3.587	78
80	3.260	3.306	3.353	3.400	3.446	3.493	3.540	3.586	3.633	3.679	80
82	3.341	3.389	3.437	3.485	3.532	3.580	3.628	3.676	3.724	3.771	82
84	3.423	3.472	3.521	3.570	3.619	3.668	3.716	3.765	3.814	3.863	84
86	3.504	3.554	3.604	3.655	3.705	3.755	3.805	3.855	3.905	3.955	86
88	3.586	3.637	3.688	3.740	3.791	3.842	3.893	3.945	3.996	4.047	88
90	3.667	3.720	3.772	3.825	3.877	3.929	3.982	4.034	4.087	4.139	90
92	3.749	3.802	3.856	3.910	3.963	4.017	4.070	4.124	4.178	4.231	92
94	3.830	3.885	3.940	3.995	4.049	4.104	4.159	4.214	4.269	4.323	94
96	3.912	3.968	4.024	4.080	4.135	4.191	4.247	4.303	4.359	4.415	96
98	3.993	4.050	4.107	4.165	4.222	4.279	4.336	4.393	4.450	4.507	98
100	4.075	4.133	4.191	4.249	4.308	4.366	4.424	4.483	4.541	4.599	100

Távolság	2 ⁰										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0.047	0.047	0.048	0.048	0.049	0.049	0.050	0.051	0.051	0.052	1
2	0.093	0.094	0.095	0.097	0.098	0.099	0.100	0.101	0.102	0.104	2
4	0.186	0.189	0.191	0.193	0.196	0.198	0.200	0.203	0.205	0.207	4
6	0.279	0.283	0.286	0.290	0.293	0.297	0.300	0.304	0.307	0.311	6
8	0.373	0.377	0.382	0.387	0.391	0.396	0.401	0.405	0.410	0.415	8
10	0.466	0.472	0.477	0.483	0.489	0.495	0.501	0.507	0.512	0.518	10
12	0.559	0.566	0.573	0.580	0.587	0.594	0.601	0.608	0.615	0.622	12
14	0.652	0.660	0.668	0.677	0.685	0.693	0.701	0.709	0.717	0.726	14
16	0.745	0.755	0.764	0.773	0.783	0.792	0.801	0.811	0.820	0.829	16
18	0.838	0.849	0.859	0.870	0.880	0.891	0.901	0.912	0.922	0.933	18
20	0.932	0.943	0.955	0.966	0.978	0.990	1.001	1.013	1.025	1.036	20
22	1.025	1.037	1.050	1.063	1.076	1.089	1.102	1.114	1.127	1.140	22
24	1.118	1.132	1.146	1.160	1.174	1.188	1.202	1.216	1.230	1.244	24
26	1.211	1.226	1.241	1.256	1.272	1.287	1.302	1.316	1.332	1.347	26
28	1.304	1.320	1.337	1.353	1.369	1.386	1.402	1.418	1.435	1.451	28
30	1.397	1.415	1.432	1.450	1.467	1.485	1.502	1.520	1.537	1.555	30
32	1.490	1.509	1.528	1.546	1.565	1.584	1.602	1.621	1.640	1.658	32
34	1.584	1.603	1.623	1.643	1.663	1.683	1.703	1.722	1.742	1.762	34
36	1.677	1.698	1.719	1.740	1.761	1.782	1.803	1.824	1.845	1.866	36
38	1.770	1.792	1.814	1.836	1.859	1.881	1.903	1.925	1.947	1.969	38
40	1.863	1.886	1.910	1.933	1.956	1.980	2.003	2.026	2.050	2.073	40
42	1.956	1.981	2.005	2.030	2.054	2.079	2.103	2.128	2.152	2.177	42
44	2.049	2.075	2.101	2.126	2.152	2.178	2.203	2.229	2.255	2.280	44
46	2.142	2.169	2.196	2.223	2.250	2.276	2.303	2.330	2.357	2.384	46
48	2.236	2.264	2.292	2.320	2.348	2.376	2.404	2.432	2.460	2.488	48
50	2.329	2.358	2.387	2.416	2.445	2.475	2.504	2.533	2.562	2.591	50
52	2.422	2.452	2.483	2.513	2.543	2.574	2.604	2.634	2.665	2.695	52
54	2.515	2.547	2.578	2.610	2.641	2.673	2.704	2.736	2.767	2.798	54
56	2.608	2.641	2.674	2.706	2.739	2.771	2.804	2.837	2.869	2.902	56
58	2.701	2.735	2.769	2.803	2.837	2.870	2.904	2.938	2.972	2.006	58
60	2.795	2.830	2.865	2.899	2.934	2.969	3.004	3.039	3.074	3.109	60
62	2.888	2.924	2.960	2.996	3.032	3.068	3.105	3.141	3.177	3.213	62
64	2.981	3.018	3.055	3.093	3.130	3.167	3.205	3.242	3.279	3.317	64
66	3.074	3.112	3.151	3.189	3.228	3.266	3.305	3.343	3.382	3.420	66
68	3.167	3.207	3.246	3.286	3.326	3.365	3.405	3.445	3.484	3.524	68
70	3.260	3.301	3.342	3.383	3.424	3.464	3.505	3.546	3.587	3.628	70
72	3.353	3.395	3.437	3.479	3.521	3.563	3.605	3.647	3.689	3.731	72
74	3.447	3.490	3.533	3.576	3.619	3.662	3.705	3.749	3.792	3.835	74
76	3.540	3.584	3.628	3.673	3.717	3.761	3.806	3.850	3.894	3.939	76
78	3.633	3.678	3.724	3.769	3.815	3.860	3.906	3.951	3.997	4.042	78
80	3.726	3.773	3.819	3.866	3.913	3.959	4.006	4.053	4.099	4.146	80
82	3.819	3.867	3.915	3.963	4.010	4.058	4.106	4.154	4.202	4.250	82
84	3.912	3.961	4.010	4.059	4.108	4.157	4.206	4.255	4.304	4.353	84
86	4.006	4.056	4.106	4.156	4.206	4.256	4.306	4.357	4.407	4.457	86
88	4.099	4.150	4.201	4.253	4.304	4.355	4.407	4.458	4.509	4.561	88
90	4.192	4.244	4.297	4.349	4.402	4.454	4.507	4.559	4.612	4.664	90
92	4.285	4.339	4.392	4.445	4.500	4.553	4.607	4.661	4.714	4.768	92
94	4.378	4.433	4.488	4.554	4.597	4.652	4.707	4.762	4.817	4.871	94
96	4.471	4.527	4.583	4.640	4.695	4.751	4.807	4.863	4.919	4.975	96
98	4.564	4.622	4.679	4.737	4.793	4.850	4.907	4.964	5.022	5.079	98
100	4.658	4.716	4.774	4.833	4.891	4.949	5.007	5.066	5.124	5.182	100

Távolság	3 ⁰										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.052	0.053	0.054	0.054	0.055	0.055	0.056	0.057	0.057	0.058	1
2	0.105	0.106	0.107	0.108	0.109	0.111	0.112	0.113	0.114	0.115	2
4	0.210	0.212	0.214	0.217	0.219	0.221	0.224	0.226	0.228	0.231	4
6	0.314	0.318	0.321	0.325	0.328	0.332	0.335	0.339	0.342	0.346	6
8	0.419	0.424	0.429	0.433	0.438	0.443	0.447	0.452	0.457	0.461	8
10	0.524	0.530	0.536	0.542	0.547	0.553	0.559	0.565	0.571	0.577	10
12	0.629	0.636	0.643	0.650	0.657	0.664	0.671	0.678	0.685	0.692	12
14	0.734	0.742	0.750	0.758	0.766	0.775	0.783	0.791	0.799	0.807	14
16	0.839	0.848	0.857	0.867	0.876	0.885	0.895	0.904	0.913	0.923	16
18	0.943	0.954	0.964	0.975	0.985	0.996	1.006	1.017	1.027	1.038	18
20	1.048	1.060	1.071	1.083	1.095	1.106	1.118	1.130	1.142	1.153	20
22	1.153	1.166	1.179	1.191	1.204	1.217	1.230	1.243	1.256	1.268	22
24	1.258	1.272	1.286	1.300	1.314	1.328	1.342	1.356	1.370	1.384	24
26	1.363	1.378	1.393	1.408	1.423	1.438	1.454	1.469	1.484	1.499	26
28	1.467	1.484	1.500	1.516	1.533	1.549	1.565	1.582	1.598	1.614	28
30	1.572	1.590	1.607	1.625	1.642	1.660	1.677	1.695	1.712	1.730	30
32	1.677	1.696	1.714	1.733	1.752	1.770	1.789	1.808	1.826	1.845	32
34	1.782	1.802	1.822	1.841	1.861	1.881	1.901	1.921	1.941	1.960	34
36	1.887	1.908	1.929	1.950	1.971	1.992	2.013	2.034	2.055	2.076	36
38	1.992	2.014	2.036	2.058	2.080	2.102	2.125	2.147	2.169	2.191	38
40	2.096	2.120	2.143	2.166	2.190	2.213	2.236	2.260	2.283	2.306	40
42	2.201	2.226	2.250	2.275	2.299	2.324	2.348	2.373	2.397	2.422	42
44	2.306	2.332	2.357	2.383	2.409	2.434	2.460	2.486	2.511	2.537	44
46	2.411	2.438	2.464	2.491	2.518	2.544	2.572	2.599	2.624	2.652	46
48	2.516	2.544	2.572	2.600	2.628	2.656	2.684	2.712	2.739	2.768	48
50	2.620	2.650	2.679	2.708	2.737	2.766	2.795	2.825	2.853	2.883	50
52	2.725	2.756	2.786	2.816	2.847	2.877	2.907	2.938	2.967	2.998	52
54	2.830	2.862	2.893	2.925	2.956	2.988	3.019	3.051	3.081	3.114	54
56	2.935	2.967	3.000	3.033	3.066	3.098	3.131	3.164	3.195	3.229	56
58	3.040	3.073	3.107	3.141	3.175	3.209	3.243	3.277	3.309	3.344	58
60	3.144	3.179	3.214	3.249	3.285	3.319	3.355	3.390	3.424	3.460	60
62	3.249	3.285	3.322	3.358	3.394	3.430	3.466	3.503	3.538	3.575	62
64	3.354	3.391	3.429	3.466	3.503	3.541	3.578	3.615	3.652	3.690	64
66	3.459	3.497	3.536	3.574	3.613	3.651	3.690	3.728	3.766	3.805	66
68	3.564	3.603	3.643	3.683	3.722	3.762	3.802	3.841	3.880	3.921	68
70	3.669	3.709	3.750	3.791	3.832	3.873	3.914	3.954	3.994	4.036	70
72	3.773	3.815	3.857	3.899	3.941	3.983	4.025	4.067	4.108	4.151	72
74	3.878	3.921	3.965	4.008	4.051	4.094	4.137	4.180	4.223	4.267	74
76	3.983	4.027	4.072	4.116	4.160	4.205	4.249	4.293	4.337	4.382	76
78	4.088	4.133	4.179	4.224	4.270	4.315	4.361	4.406	4.451	4.497	78
80	4.193	4.239	4.286	4.333	4.379	4.426	4.473	4.519	4.565	4.613	80
82	4.297	4.345	4.393	4.441	4.490	4.537	4.585	4.632	4.679	4.728	82
84	4.402	4.451	4.500	4.549	4.599	4.647	4.696	4.745	4.793	4.843	84
86	4.507	4.557	4.607	4.658	4.709	4.758	4.808	4.858	4.908	4.959	86
88	4.612	4.663	4.715	4.766	4.818	4.869	4.920	4.971	5.022	5.074	88
90	4.717	4.769	4.822	4.874	4.928	4.979	5.032	5.084	5.136	5.189	90
92	4.822	4.875	4.929	4.983	5.037	5.090	5.144	5.197	5.251	5.305	92
94	4.926	4.981	5.036	5.091	5.147	5.201	5.255	5.310	5.365	5.420	94
96	5.031	5.087	5.143	5.199	5.256	5.311	5.367	5.423	5.479	5.535	96
98	5.136	5.193	5.250	5.307	5.366	5.422	5.479	5.536	5.593	5.651	98
100	5.241	5.299	5.357	5.416	5.475	5.532	5.591	5.649	5.708	5.766	100

Távolság	3 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.058	0.059	0.059	0.060	0.061	0.061	0.062	0.062	0.063	0.063	1
2	0.116	0.118	0.119	0.120	0.121	0.122	0.123	0.125	0.126	0.127	2
4	0.233	0.235	0.238	0.240	0.242	0.245	0.247	0.249	0.252	0.254	4
6	0.349	0.353	0.356	0.360	0.363	0.367	0.370	0.374	0.377	0.381	6
8	0.466	0.471	0.475	0.480	0.485	0.489	0.494	0.499	0.503	0.508	8
10	0.582	0.588	0.594	0.600	0.606	0.612	0.617	0.623	0.629	0.635	10
12	0.699	0.706	0.713	0.720	0.727	0.734	0.741	0.748	0.755	0.762	12
14	0.815	0.824	0.832	0.840	0.848	0.856	0.864	0.873	0.881	0.889	14
16	0.932	0.941	0.951	0.960	0.969	0.979	0.988	0.997	1.007	1.016	16
18	1.048	1.059	1.069	1.080	1.090	1.101	1.111	1.122	1.132	1.143	18
20	1.165	1.177	1.188	1.200	1.212	1.223	1.235	1.247	1.258	1.270	20
22	1.281	1.294	1.307	1.320	1.333	1.346	1.358	1.371	1.384	1.397	22
24	1.398	1.412	1.426	1.440	1.454	1.468	1.482	1.496	1.510	1.524	24
26	1.514	1.530	1.545	1.560	1.575	1.590	1.605	1.621	1.636	1.651	26
28	1.631	1.647	1.664	1.680	1.696	1.713	1.729	1.745	1.762	1.778	28
30	1.747	1.765	1.782	1.800	1.817	1.835	1.852	1.870	1.887	1.905	30
32	1.864	1.882	1.901	1.920	1.939	1.957	1.976	1.995	2.013	2.032	32
34	1.980	2.000	2.020	2.040	2.060	2.080	2.099	2.119	2.139	2.159	34
36	2.097	2.118	2.139	2.160	2.181	2.202	2.223	2.244	2.265	2.286	36
38	2.213	2.235	2.258	2.280	2.302	2.324	2.346	2.369	2.391	2.413	38
40	2.330	2.353	2.376	2.400	2.423	2.447	2.470	2.493	2.517	2.540	40
42	2.446	2.471	2.495	2.520	2.544	2.569	2.593	2.618	2.642	2.667	42
44	2.563	2.588	2.614	2.640	2.665	2.691	2.717	2.743	2.768	2.794	44
46	2.679	2.706	2.733	2.760	2.787	2.813	2.840	2.867	2.894	2.921	46
48	2.796	2.824	2.852	2.880	2.908	2.936	2.964	2.992	3.020	3.048	48
50	2.912	2.941	2.971	3.000	3.029	3.058	3.087	3.117	3.146	3.175	50
52	3.029	3.059	3.089	3.120	3.150	3.180	3.211	3.241	3.272	3.302	52
54	3.145	3.177	3.208	3.240	3.271	3.303	3.334	3.366	3.397	3.429	54
56	3.262	3.294	3.327	3.360	3.392	3.425	3.458	3.491	3.523	3.556	56
58	3.378	3.412	3.446	3.480	3.514	3.547	3.581	3.615	3.649	3.683	58
60	3.495	3.530	3.565	3.600	6.635	3.670	3.705	3.740	3.775	3.810	60
62	3.611	3.647	3.683	3.720	3.756	3.792	3.828	3.865	3.901	3.937	62
64	3.728	3.765	3.802	3.840	3.877	3.914	3.952	3.989	4.027	4.064	64
66	3.844	3.883	3.921	3.960	3.998	4.037	4.075	4.114	4.152	4.191	66
68	3.961	4.000	4.040	4.080	4.119	4.159	4.199	4.239	4.278	4.318	68
70	4.077	4.118	4.159	4.200	4.241	4.281	4.322	4.363	4.404	4.445	70
72	4.193	4.236	4.278	4.320	4.362	4.404	4.446	4.488	4.530	4.572	72
74	4.310	4.353	4.396	4.440	4.483	4.526	4.569	4.612	4.656	4.699	74
76	4.426	4.471	4.515	4.560	4.604	4.648	4.693	4.737	4.782	4.826	76
78	4.543	4.589	4.634	4.680	4.725	4.771	4.816	4.862	4.907	4.953	78
80	4.659	4.706	4.753	4.800	4.846	4.893	4.940	4.986	5.033	5.080	80
82	4.776	4.824	4.872	4.920	4.967	5.015	5.063	5.111	5.159	5.207	82
84	4.892	4.941	4.991	5.040	5.089	5.138	5.187	5.236	5.285	5.334	84
86	5.009	5.059	5.109	5.160	5.210	5.260	5.310	5.360	5.411	5.461	86
88	5.125	5.177	5.228	5.280	5.331	5.382	5.434	5.485	5.537	5.588	88
90	5.242	5.294	5.347	5.400	5.452	5.505	5.557	5.610	5.662	5.715	90
92	5.358	5.412	5.466	5.520	5.573	5.627	5.681	5.734	5.788	5.842	92
94	5.475	5.530	5.585	5.640	5.694	5.749	5.804	5.859	5.914	5.969	94
96	5.591	5.647	5.703	5.760	5.816	5.872	5.928	5.984	6.040	6.096	96
98	5.708	5.765	5.822	5.880	5.937	5.994	6.051	6.108	6.166	6.223	98
100	5.824	5.883	5.941	5.999	6.058	6.116	6.175	6.233	6.291	6.350	100

Távolság	3 ⁰										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0.064	0.065	0.065	0.066	0.066	0.067	0.068	0.068	0.069	0.069	1
2	0.128	0.129	0.130	0.132	0.133	0.134	0.135	0.136	0.138	0.139	2
4	0.256	0.259	0.261	0.263	0.266	0.268	0.270	0.273	0.275	0.277	4
6	0.384	0.388	0.392	0.395	0.399	0.402	0.406	0.409	0.413	0.416	6
8	0.513	0.517	0.522	0.527	0.531	0.536	0.541	0.545	0.550	0.555	8
10	0.641	0.647	0.653	0.658	0.664	0.670	0.676	0.682	0.688	0.693	10
12	0.769	0.776	0.783	0.790	0.797	0.804	0.811	0.818	0.825	0.832	12
14	0.897	0.905	0.914	0.922	0.930	0.938	0.946	0.954	0.963	0.971	14
16	1.025	1.035	1.044	1.053	1.063	1.072	1.081	1.091	1.100	1.109	16
18	1.153	1.164	1.175	1.185	1.196	1.206	1.217	1.227	1.238	1.248	18
20	1.282	1.293	1.305	1.317	1.328	1.340	1.352	1.363	1.375	1.387	20
22	1.410	1.423	1.436	1.448	1.461	1.474	1.487	1.500	1.513	1.526	22
24	1.538	1.552	1.566	1.580	1.594	1.608	1.622	1.636	1.650	1.664	24
26	1.666	1.681	1.697	1.712	1.727	1.742	1.757	1.772	1.788	1.803	26
28	1.794	1.811	1.827	1.843	1.860	1.876	1.892	1.909	1.925	1.942	28
30	1.922	1.940	1.958	1.975	1.993	2.010	2.028	2.045	2.063	2.080	30
32	2.051	2.069	2.088	2.107	2.125	2.144	2.163	2.182	2.200	2.219	32
34	2.179	2.199	2.219	2.238	2.258	2.278	2.298	2.318	2.338	2.358	34
36	2.307	2.328	2.349	2.370	2.391	2.412	2.433	2.454	2.475	2.496	36
38	2.435	2.457	2.480	2.502	2.524	2.546	2.568	2.591	2.613	2.635	38
40	2.563	2.587	2.610	2.633	2.657	2.680	2.704	2.727	2.750	2.774	40
42	2.691	2.716	2.741	2.765	2.790	2.814	2.839	2.863	2.888	2.912	42
44	2.820	2.845	2.871	2.897	2.922	2.948	2.974	3.000	3.025	3.051	44
46	2.948	2.975	3.002	3.028	3.055	3.082	3.109	3.136	3.163	3.190	46
48	3.076	3.104	3.132	3.160	3.188	3.216	3.244	3.272	3.300	3.328	48
50	3.204	3.233	3.263	3.292	3.321	3.350	3.379	3.409	3.438	3.467	50
52	3.332	3.363	3.393	3.423	3.454	3.484	3.515	3.545	3.575	3.606	52
54	3.460	3.492	3.524	3.555	3.587	3.618	3.650	3.681	3.713	3.744	54
56	3.589	3.621	3.654	3.687	3.720	3.752	3.785	3.818	3.850	3.883	56
58	3.717	3.751	3.785	3.818	3.852	3.886	3.920	3.954	3.988	3.022	58
60	3.844	3.880	3.915	3.950	3.985	4.020	4.055	4.090	4.125	4.161	60
62	3.973	4.009	4.046	4.082	4.118	4.154	4.191	4.227	4.263	4.299	62
64	4.101	4.139	4.176	4.214	4.251	4.288	4.326	4.363	4.401	4.438	64
66	4.229	4.268	4.307	4.345	4.384	4.422	4.461	4.499	4.538	4.577	66
68	4.358	4.397	4.437	4.477	4.517	4.556	4.596	4.636	4.676	4.715	68
70	4.486	4.527	4.568	4.609	4.649	4.690	4.731	4.772	4.813	4.854	70
72	4.614	4.656	4.698	4.740	4.782	4.824	4.866	4.908	4.951	4.993	72
74	4.742	4.785	4.829	4.872	4.915	4.958	5.002	5.045	5.088	5.131	74
76	4.870	4.915	4.959	5.004	5.048	5.092	5.137	5.181	5.226	5.270	76
78	4.998	5.044	5.090	5.135	5.181	5.226	5.272	5.317	5.363	5.409	78
80	5.127	5.173	5.220	5.267	5.314	5.360	5.407	5.454	5.501	5.547	80
82	5.255	5.303	5.351	5.399	5.446	5.494	5.542	5.590	5.638	5.686	82
84	5.383	5.432	5.481	5.530	5.579	5.628	5.677	5.727	5.776	5.825	84
86	5.511	5.561	5.612	5.662	5.712	5.762	5.813	5.863	5.913	5.963	86
88	5.639	5.691	5.742	5.794	5.845	5.896	5.948	5.999	6.051	6.102	88
90	5.767	5.820	5.873	5.925	5.978	6.030	6.083	6.136	6.188	6.241	90
92	5.896	5.949	6.003	6.057	6.111	6.164	6.218	6.272	6.326	6.379	92
94	6.024	6.079	6.134	6.189	6.243	6.298	6.353	6.408	6.463	6.518	94
96	6.152	6.208	6.264	6.320	6.376	6.432	6.489	6.545	6.601	6.657	96
98	6.280	6.337	6.395	6.452	6.509	6.566	6.624	6.681	6.738	6.796	98
100	6.408	6.467	6.525	6.584	6.642	6.700	6.759	6.817	6.876	6.934	100

Távolság	1 ⁰										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.070	0.071	0.071	0.072	0.072	0.073	0.073	0.074	0.075	0.075	1
2	0.140	0.141	0.142	0.143	0.145	0.146	0.147	0.148	0.149	0.150	2
4	0.280	0.282	0.284	0.287	0.289	0.291	0.294	0.296	0.298	0.301	4
6	0.420	0.423	0.427	0.430	0.434	0.437	0.441	0.444	0.448	0.451	6
8	0.559	0.564	0.569	0.573	0.578	0.583	0.587	0.592	0.597	0.602	8
10	0.699	0.705	0.711	0.717	0.723	0.728	0.734	0.740	0.746	0.752	10
12	0.839	0.846	0.853	0.860	0.867	0.874	0.881	0.888	0.895	0.902	12
14	0.979	0.987	0.995	1.004	1.012	1.020	1.028	1.036	1.044	1.053	14
16	1.119	1.128	1.138	1.147	1.156	1.166	1.175	1.184	1.194	1.203	16
18	1.259	1.269	1.280	1.290	1.301	1.311	1.322	1.332	1.343	1.353	18
20	1.399	1.410	1.422	1.434	1.445	1.457	1.469	1.480	1.492	1.504	20
22	1.538	1.551	1.564	1.577	1.590	1.603	1.616	1.628	1.641	1.654	22
24	1.678	1.692	1.706	1.720	1.734	1.748	1.762	1.776	1.791	1.805	24
26	1.818	1.833	1.848	1.864	1.879	1.894	1.909	1.925	1.940	1.955	26
28	1.958	1.974	1.991	2.007	2.023	2.040	2.056	2.073	2.089	2.105	28
30	2.098	2.115	2.133	2.150	2.168	2.185	2.203	2.221	2.238	2.256	30
32	2.238	2.256	2.275	2.294	2.312	2.331	2.350	2.369	2.387	2.406	32
34	2.378	2.397	2.417	2.437	2.457	2.477	2.497	2.517	2.537	2.556	34
36	2.517	2.538	2.559	2.581	2.602	2.623	2.644	2.665	2.686	2.707	36
38	3.657	2.679	2.702	2.724	2.746	2.768	2.791	2.813	2.835	2.857	38
40	2.797	2.820	2.844	2.867	2.891	2.914	2.937	2.961	2.984	3.008	40
42	2.937	2.962	2.986	3.011	3.035	3.060	3.084	3.109	3.133	3.158	42
44	3.077	3.103	3.128	3.154	3.180	3.205	3.231	3.257	3.283	3.308	44
46	3.217	3.244	3.270	3.297	3.324	3.351	3.378	3.405	3.432	3.459	46
48	3.356	3.385	3.413	3.441	3.469	3.497	3.525	3.553	3.581	3.609	48
50	3.496	3.526	3.555	3.584	3.613	3.642	3.672	3.701	3.730	3.759	50
52	3.636	3.667	3.697	3.727	3.758	3.788	3.819	3.849	3.879	3.910	52
54	3.776	3.808	3.839	3.871	3.902	3.934	3.965	3.997	4.029	4.060	54
56	3.916	3.949	3.981	4.014	4.047	4.080	4.112	4.145	4.178	4.211	56
58	4.056	4.090	4.124	4.157	4.191	4.225	4.259	4.293	4.327	4.361	58
60	4.196	4.231	4.266	4.301	4.336	4.371	4.406	4.441	4.476	4.511	60
62	4.336	4.372	4.408	4.444	4.480	4.517	4.553	4.589	4.626	4.662	62
64	4.476	4.513	4.550	4.588	4.625	4.662	4.700	4.737	4.775	4.812	64
66	4.616	4.654	4.692	4.731	4.769	4.808	4.847	4.885	4.924	4.963	66
68	4.756	4.795	4.835	4.874	4.914	4.954	4.994	5.033	5.073	5.113	68
70	4.896	4.936	4.977	5.018	5.059	5.099	5.140	5.181	5.222	5.263	70
72	5.036	5.077	5.119	5.161	5.203	5.245	5.287	5.329	5.372	5.414	72
74	5.176	5.218	5.261	5.304	5.348	5.391	5.434	5.477	5.521	5.564	74
76	5.315	5.359	5.403	5.448	5.492	5.537	5.581	5.626	5.670	5.714	76
78	5.455	5.500	5.545	5.590	5.637	5.682	5.728	5.774	5.819	5.865	78
80	5.595	5.641	5.688	5.734	5.781	5.828	5.875	5.922	5.968	6.015	80
82	5.735	5.782	5.830	5.878	5.926	5.974	6.022	6.070	6.118	6.166	82
84	5.875	5.923	5.972	6.021	6.070	6.119	6.169	6.218	6.267	6.316	84
86	6.015	6.064	6.114	6.165	6.215	6.265	6.315	6.366	6.416	6.466	86
88	6.155	6.205	6.256	6.308	6.359	6.411	6.462	6.514	6.565	6.617	88
90	6.294	6.346	6.399	6.451	6.504	6.556	6.609	6.662	6.714	6.767	90
92	6.434	6.487	6.541	6.595	6.648	6.702	6.756	6.810	6.864	6.917	92
94	6.574	6.628	6.683	6.738	6.793	6.848	6.903	6.958	7.013	7.068	94
96	6.714	6.769	6.825	6.881	6.937	6.994	7.050	7.106	7.162	7.218	96
98	6.854	6.910	6.967	7.025	7.082	7.139	7.197	7.254	7.311	7.369	98
100	6.994	7.051	7.110	7.168	7.226	7.285	7.343	7.402	7.460	7.519	100

Távolság	1 ^o										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.076	0.076	0.077	0.078	0.078	0.079	0.079	0.080	0.080	0.081	1
2	0.152	0.153	0.154	0.155	0.156	0.157	0.159	0.160	0.161	0.162	2
4	0.303	0.305	0.308	0.310	0.312	0.315	0.317	0.319	0.322	0.324	4
6	0.455	0.458	0.462	0.465	0.469	0.472	0.476	0.479	0.483	0.486	6
8	0.606	0.611	0.616	0.620	0.625	0.630	0.634	0.639	0.644	0.648	8
10	0.758	0.764	0.769	0.775	0.781	0.787	0.793	0.799	0.805	0.810	10
12	0.909	0.916	0.923	0.930	0.937	0.944	0.951	0.958	0.965	0.973	12
14	1.061	1.069	1.077	1.085	1.094	1.102	1.110	1.118	1.126	1.135	14
16	1.212	1.222	1.231	1.240	1.250	1.259	1.269	1.278	1.287	1.297	16
18	1.364	1.374	1.385	1.396	1.406	1.417	1.427	1.438	1.448	1.459	18
20	1.516	1.527	1.539	1.551	1.562	1.574	1.586	1.597	1.609	1.621	20
22	1.667	1.680	1.693	1.706	1.719	1.731	1.744	1.757	1.770	1.783	22
24	1.819	1.833	1.847	1.861	1.875	1.889	1.903	1.917	1.931	1.945	24
26	1.970	1.985	2.001	2.016	2.031	2.046	2.061	2.077	2.092	2.107	26
28	2.122	2.138	2.154	2.171	2.187	2.204	2.220	2.236	2.253	2.269	28
30	2.273	2.291	2.308	2.326	2.343	2.361	2.379	2.396	2.414	2.431	30
32	2.425	2.444	2.462	2.481	2.500	2.518	2.537	2.556	2.575	2.593	32
34	2.576	2.596	2.616	2.636	2.656	2.676	2.696	2.716	2.736	2.755	34
36	2.728	2.749	2.770	2.791	2.812	2.833	2.854	2.875	2.896	2.918	36
38	2.879	2.902	2.924	2.946	2.968	2.991	3.013	3.035	3.057	2.080	38
40	3.031	3.054	3.078	3.101	3.125	3.148	3.171	3.195	3.218	3.242	40
42	3.183	3.207	3.232	3.256	3.281	3.305	3.330	3.355	3.379	3.404	42
44	3.334	3.360	3.386	3.411	3.437	3.463	3.489	3.514	3.540	3.566	44
46	3.486	3.513	3.540	3.566	3.593	3.620	3.647	3.674	3.701	3.728	46
48	3.637	3.665	3.693	3.721	3.750	3.778	3.806	3.834	3.862	3.890	48
50	3.789	3.818	3.847	3.877	3.906	3.935	3.964	3.994	4.023	4.052	50
52	3.940	3.971	4.001	4.032	4.062	4.093	4.123	4.153	4.184	4.214	52
54	4.092	4.123	4.155	4.187	4.218	4.250	4.281	4.313	4.345	4.376	54
56	4.243	4.276	4.309	4.342	4.374	4.407	4.440	4.473	4.506	4.538	56
58	4.395	4.429	4.463	4.497	4.531	4.565	4.599	4.633	4.667	4.701	58
60	4.547	4.582	4.617	4.652	4.687	4.722	4.757	4.792	4.827	4.863	60
62	4.698	4.734	4.771	4.807	4.843	4.880	4.916	4.952	4.988	5.025	62
64	4.850	4.887	4.925	4.962	4.999	5.037	5.074	5.112	5.149	5.187	64
66	5.001	5.540	5.078	5.117	5.156	5.194	5.233	5.272	5.310	5.349	66
68	5.153	5.192	5.232	5.272	5.312	5.352	5.392	5.431	5.471	5.511	68
70	5.304	5.345	5.386	5.427	5.468	5.509	5.550	5.591	5.632	5.673	70
72	5.456	5.498	5.540	5.582	5.624	5.667	5.709	5.751	5.793	5.835	72
74	5.607	5.651	5.694	5.737	5.781	5.824	5.867	5.911	5.954	5.997	74
76	5.759	5.803	5.848	5.892	5.937	5.981	6.026	6.070	6.115	6.159	76
78	5.911	5.956	6.002	6.047	6.093	6.139	6.184	6.230	6.276	6.321	78
80	6.062	6.109	6.156	6.202	6.249	6.296	6.343	6.390	6.437	6.484	80
82	6.214	6.262	6.310	6.358	6.406	6.454	6.502	6.550	6.598	6.646	82
84	6.365	6.414	6.463	6.513	6.562	6.611	6.660	6.709	6.758	6.808	84
86	6.517	6.567	6.617	6.668	6.718	6.768	6.819	6.869	6.919	6.970	86
88	6.668	6.720	6.771	6.823	6.874	6.926	6.977	7.029	7.080	7.132	88
90	6.820	6.872	6.925	6.978	7.030	7.083	7.136	7.189	7.241	7.294	90
92	6.971	7.025	7.079	7.133	7.187	7.241	7.294	7.348	7.402	7.456	92
94	7.123	7.178	7.233	7.288	7.343	7.398	7.453	7.508	7.563	7.618	94
96	7.274	7.331	7.387	7.443	7.499	7.555	7.612	7.668	7.724	7.780	96
98	7.426	7.483	7.531	7.598	7.655	7.713	7.770	7.828	7.885	7.942	98
100	7.578	7.636	7.695	7.753	7.812	7.870	7.927	7.987	8.046	8.104	100

Távolság	1 ⁰										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0.082	0.082	0.083	0.083	0.084	0.085	0.085	0.086	0.086	0.087	1
2	0.163	0.164	0.166	0.167	0.168	0.169	0.170	0.171	0.173	0.174	2
4	0.327	0.329	0.331	0.334	0.336	0.338	0.341	0.343	0.345	0.348	4
6	0.490	0.493	0.497	0.500	0.504	0.507	0.511	0.514	0.518	0.521	6
8	0.653	0.658	0.662	0.667	0.672	0.676	0.681	0.686	0.691	0.695	8
10	0.816	0.822	0.828	0.834	0.840	0.846	0.851	0.857	0.863	0.869	10
12	0.980	0.987	0.994	1.001	1.008	1.015	1.022	1.029	1.036	1.043	12
14	1.143	1.151	1.159	1.167	1.176	1.184	1.192	1.200	1.208	1.217	14
16	1.306	1.315	1.325	1.334	1.344	1.353	1.362	1.372	1.381	1.390	16
18	1.469	1.480	1.490	1.501	1.511	1.522	1.533	1.543	1.554	1.564	18
20	1.633	1.644	1.656	1.668	1.679	1.691	1.703	1.715	1.726	1.738	20
22	1.796	1.809	1.822	1.834	1.847	1.860	1.873	1.886	1.900	1.912	22
24	1.959	1.973	1.987	2.001	2.015	2.029	2.043	2.058	2.072	2.086	24
26	2.122	2.138	2.153	2.168	2.183	2.199	2.214	2.229	2.244	2.259	26
28	2.286	2.302	2.318	2.335	2.351	2.368	2.384	2.400	2.417	2.433	28
30	2.449	2.466	2.484	2.502	2.519	2.537	2.554	2.572	2.590	2.607	30
32	2.612	2.631	2.650	2.668	2.687	2.706	2.725	2.743	2.762	2.781	32
34	2.775	2.795	2.815	2.835	2.855	2.875	2.895	2.915	2.935	2.955	34
36	2.939	2.960	2.981	3.002	3.023	3.044	3.065	3.086	3.107	3.129	36
38	3.102	3.124	3.146	3.169	3.191	3.213	3.235	3.258	3.280	3.302	38
40	3.265	3.289	3.312	3.335	3.359	3.382	3.406	3.429	3.453	3.476	40
42	3.428	3.453	3.478	3.502	3.527	3.551	3.576	3.601	3.625	3.650	42
44	3.592	3.617	3.643	3.669	3.695	3.721	3.746	3.772	3.798	3.824	44
46	3.755	3.782	3.809	3.836	3.863	3.890	3.917	3.944	3.971	3.998	46
48	3.918	3.946	3.974	4.003	4.031	4.059	4.087	4.115	4.143	4.171	48
50	4.081	4.111	4.140	4.169	4.199	4.228	4.257	4.286	4.316	4.345	50
52	4.245	4.275	4.306	4.336	4.367	4.397	4.427	4.458	4.488	4.519	52
54	4.408	4.440	4.471	4.503	4.534	4.566	4.598	4.629	4.661	4.693	54
56	4.571	4.604	4.637	4.670	4.702	4.735	4.768	4.801	4.834	4.867	56
58	4.734	4.768	4.802	4.836	4.870	4.904	4.938	4.972	5.006	5.040	58
60	4.898	4.933	4.968	5.003	5.038	5.073	5.109	5.144	5.179	5.214	60
62	5.061	5.097	5.134	5.170	5.206	5.243	5.279	5.315	5.352	5.388	62
64	5.224	5.262	5.299	5.337	5.374	5.412	5.449	5.487	5.524	5.562	64
66	5.388	5.426	5.465	5.503	5.542	5.581	5.620	5.658	5.697	5.736	66
68	5.551	5.591	5.630	5.670	5.710	5.750	5.790	5.830	5.870	5.909	68
70	5.714	5.755	5.796	5.837	5.878	5.919	5.960	6.001	6.042	6.083	70
72	5.877	5.919	5.962	6.004	6.046	6.088	6.130	6.173	6.215	6.257	72
74	6.041	6.084	6.127	6.171	6.214	6.257	6.301	6.344	6.387	6.431	74
76	6.204	6.248	6.293	6.337	6.382	6.426	6.471	6.515	6.560	6.605	76
78	6.367	6.413	6.458	6.504	6.550	6.596	6.641	6.687	6.733	6.778	78
80	6.530	6.577	6.624	6.671	6.718	6.765	6.812	6.858	6.905	6.952	80
82	6.694	6.742	6.790	6.838	6.886	6.934	6.982	7.030	7.078	7.126	82
84	6.857	6.906	6.955	7.004	7.054	7.103	7.152	7.201	7.251	7.300	84
86	7.020	7.070	7.121	7.171	7.222	7.272	7.322	7.373	7.423	7.474	86
88	7.183	7.235	7.286	7.338	7.390	7.441	7.493	7.544	7.596	7.647	88
90	7.347	7.399	7.452	7.505	7.557	7.610	7.663	7.716	7.769	7.821	90
92	7.510	7.564	7.618	7.672	7.725	7.779	7.833	7.887	7.941	7.995	92
94	7.673	7.728	7.783	7.838	7.893	7.949	8.004	8.059	8.114	8.169	94
96	7.836	7.893	7.949	8.005	8.061	8.118	8.174	8.230	8.286	8.343	96
98	8.000	8.057	8.114	8.172	8.229	8.287	8.344	8.402	8.459	8.516	98
100	8.163	8.221	8.280	8.339	8.397	8.456	8.514	8.573	8.632	8.690	100

Távolság	5 ⁰										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0·087	0·088	0·089	0·089	0·090	0·090	0·091	0·092	0·092	0·093	1
2	0·175	0·176	0·177	0·178	0·180	0·181	0·182	0·183	0·184	0·186	2
4	0·350	0·352	0·355	0·357	0·359	0·362	0·364	0·366	0·369	0·371	4
6	0·525	0·528	0·532	0·535	0·539	0·543	0·546	0·550	0·553	0·557	6
8	0·700	0·705	0·709	0·714	0·719	0·723	0·728	0·733	0·737	0·742	8
10	0·875	0·881	0·887	0·892	0·898	0·904	0·910	0·916	0·922	0·928	10
12	1·050	1·057	1·064	1·071	1·078	1·085	1·092	1·099	1·106	1·113	12
14	1·225	1·233	1·241	1·249	1·258	1·266	1·274	1·282	1·291	1·299	14
16	1·400	1·409	1·419	3·428	1·437	1·447	1·456	1·466	1·475	1·484	16
18	1·575	1·585	1·596	1·606	1·617	1·628	1·638	1·649	1·659	1·670	18
20	1·750	1·761	1·773	1·785	1·797	1·808	1·820	1·832	1·844	1·855	20
22	1·925	1·938	1·951	1·963	1·976	1·989	2·002	2·015	2·028	2·041	22
24	2·100	2·114	2·128	2·142	2·156	2·170	2·184	2·198	2·212	2·226	24
26	2·275	2·290	2·305	2·320	2·336	2·351	2·366	2·381	2·397	2·412	26
28	2·450	2·466	2·483	2·499	2·515	2·532	2·548	2·565	2·581	2·597	28
30	2·625	2·642	2·660	2·677	2·695	2·713	2·730	2·748	2·765	2·783	30
32	2·800	2·818	2·837	2·856	2·875	2·893	2·912	2·931	2·950	2·969	32
34	2·975	2·995	3·015	3·034	3·054	3·074	3·094	3·114	3·134	3·154	34
36	3·150	3·171	3·192	3·213	3·234	3·255	3·276	3·297	3·318	3·340	36
38	3·325	3·347	3·369	3·391	3·414	3·436	3·458	3·481	3·503	3·525	38
40	3·500	3·523	3·546	3·570	3·593	3·617	3·640	3·664	3·687	3·711	40
42	3·675	3·699	3·724	3·748	3·773	3·798	3·822	3·847	3·872	3·896	42
44	3·850	3·875	3·901	3·927	3·953	3·979	4·004	4·030	4·056	4·082	44
46	4·024	4·051	4·078	4·105	4·132	4·159	4·186	4·213	4·240	4·267	46
48	4·199	4·228	4·256	4·284	4·312	4·340	4·368	4·397	4·425	4·453	48
50	4·374	4·404	4·433	4·462	4·492	4·521	4·550	4·580	4·609	4·638	50
52	4·549	4·580	4·610	4·641	4·671	4·702	4·732	4·763	4·793	4·824	52
54	4·724	4·756	4·788	4·819	4·851	4·883	4·914	4·946	4·978	5·009	54
56	4·899	4·932	4·965	4·998	5·031	5·064	5·096	5·129	5·162	5·195	56
58	5·074	5·108	5·142	5·176	5·210	5·244	5·278	5·312	5·346	5·380	58
60	5·249	5·284	5·320	5·355	5·390	5·425	5·460	5·496	5·531	5·566	60
62	5·424	5·461	5·497	5·533	5·570	5·606	5·642	5·679	5·715	5·752	62
64	5·599	5·637	5·674	5·712	5·749	5·787	5·825	5·862	5·900	5·937	64
66	5·774	5·813	5·852	5·890	5·929	5·968	6·007	6·045	6·084	6·123	66
68	5·949	5·989	6·029	6·069	6·109	6·149	6·189	6·228	6·268	6·308	68
70	6·124	6·165	6·206	6·247	6·288	6·329	6·371	6·412	6·453	6·494	70
72	6·299	6·341	6·384	6·426	6·468	6·510	6·553	6·595	6·637	6·679	72
74	6·474	6·518	6·561	6·604	6·648	6·691	6·735	6·778	6·821	6·865	74
76	6·649	6·694	6·738	6·783	6·827	6·872	6·917	6·961	7·006	7·050	76
78	6·824	6·870	6·916	6·961	7·007	7·053	7·099	7·144	7·190	7·236	78
80	6·999	7·046	7·093	7·140	7·187	7·234	7·281	7·328	7·374	7·421	80
82	7·174	7·222	7·270	7·318	7·366	7·415	7·463	7·511	7·559	7·607	82
84	7·349	7·398	7·448	7·497	7·546	7·595	7·645	7·694	7·743	7·792	84
86	7·524	7·574	7·625	7·675	7·726	7·776	7·827	7·877	7·927	7·978	86
88	7·699	7·750	7·802	7·854	7·905	7·957	8·009	8·060	8·112	8·163	88
90	7·874	7·927	7·980	8·032	8·085	8·138	8·191	8·243	8·296	8·349	90
92	8·049	8·103	8·157	8·211	8·265	8·319	8·373	8·427	8·481	8·535	92
94	8·224	8·279	8·334	8·389	8·444	8·500	8·555	8·610	8·665	8·720	94
96	8·399	8·455	8·511	8·568	8·624	8·680	8·737	8·793	8·849	8·906	96
98	8·574	8·631	8·689	8·746	8·804	8·861	8·919	8·976	9·034	9·091	98
100	8·749	8·807	8·866	8·925	8·983	9·042	9·101	9·159	9·218	9·277	100

Távolság	5 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.093	0.094	0.095	0.095	0.096	0.096	0.097	0.097	0.098	0.099	1
2	0.187	0.188	0.189	0.190	0.191	0.193	0.194	0.195	0.196	0.197	2
4	0.373	0.376	0.378	0.380	0.383	0.385	0.388	0.390	0.392	0.395	4
6	0.560	0.564	0.567	0.571	0.574	0.578	0.581	0.585	0.588	0.592	6
8	0.747	0.752	0.756	0.761	0.766	0.770	0.775	0.780	0.784	0.789	8
10	0.934	0.939	0.945	0.951	0.957	0.963	0.969	0.975	0.981	0.986	10
12	1.120	1.127	1.134	1.141	1.148	1.155	1.163	1.170	1.177	1.184	12
14	1.307	1.315	1.323	1.332	1.340	1.348	1.356	1.364	1.373	1.381	14
16	1.494	1.503	1.512	1.522	1.531	1.541	1.550	1.559	1.569	1.578	16
18	1.680	1.691	1.701	1.712	1.723	1.733	1.744	1.754	1.765	1.775	18
20	1.867	1.879	1.891	1.902	1.914	1.926	1.938	1.949	1.961	1.973	20
22	2.054	2.067	2.080	2.093	2.105	2.118	2.131	2.144	2.157	2.170	22
24	2.240	2.255	2.269	2.283	2.297	2.311	2.325	2.339	2.353	2.367	24
26	2.427	2.442	2.458	2.473	2.488	2.504	2.519	2.534	2.549	2.565	26
28	2.614	2.630	2.647	2.663	2.680	2.696	2.713	2.729	2.745	2.762	28
30	2.801	2.818	2.836	2.853	2.871	2.889	2.906	2.924	2.942	2.959	30
32	2.987	3.006	3.025	3.044	3.062	3.081	3.100	3.119	3.138	3.156	32
34	3.174	3.194	3.214	3.234	3.254	3.274	3.294	3.314	3.334	3.354	34
36	3.361	3.382	3.403	3.424	3.445	3.466	3.488	3.509	3.530	3.551	36
38	3.547	3.570	3.592	3.614	3.637	3.659	3.681	3.704	3.726	3.748	38
40	3.734	3.758	3.781	3.805	3.828	3.852	3.875	3.899	3.922	3.946	40
42	3.921	3.946	3.970	3.995	4.019	4.044	4.069	4.093	4.118	4.143	42
44	4.108	4.133	4.159	4.185	4.211	4.237	4.263	4.288	4.314	4.340	44
46	4.294	4.321	4.348	4.375	4.402	4.429	4.456	4.483	4.510	4.537	46
48	4.481	4.509	4.537	4.566	4.594	4.622	4.650	4.678	4.706	4.735	48
50	4.668	4.697	4.726	4.756	4.785	4.814	4.844	4.873	4.903	4.932	50
52	4.854	4.885	4.915	4.946	4.977	5.007	5.038	5.068	5.100	5.129	52
54	5.041	5.073	5.105	5.136	5.168	5.200	5.231	5.263	5.295	5.326	54
56	5.228	5.261	5.294	5.326	5.359	5.392	5.425	5.458	5.491	5.524	56
58	5.415	5.449	5.483	5.517	5.551	5.585	5.619	5.653	5.687	5.721	58
60	5.601	5.636	5.672	5.707	5.742	5.777	5.813	5.848	5.883	5.918	60
62	5.788	5.824	5.861	5.897	5.934	5.970	6.006	6.043	6.079	6.116	62
64	5.975	6.012	6.050	6.087	6.125	6.162	6.200	6.238	6.275	6.313	64
66	6.161	6.200	6.239	6.278	6.316	6.355	6.394	6.433	6.471	6.510	66
68	6.348	6.388	6.428	6.468	6.508	6.548	6.588	6.628	6.667	6.707	68
70	6.535	6.576	6.617	6.658	6.699	6.740	6.781	6.822	6.864	6.905	70
72	6.721	6.764	6.806	6.848	6.891	6.933	6.975	7.017	7.060	7.102	72
74	6.908	6.952	6.995	7.039	7.082	7.125	7.169	7.212	7.256	7.299	74
76	7.095	7.140	7.184	7.229	7.273	7.318	7.363	7.407	7.452	7.496	76
78	7.282	7.327	7.373	7.419	7.465	7.511	7.556	7.602	7.648	7.694	78
80	7.468	7.515	7.562	7.609	7.656	7.703	7.750	7.797	7.844	7.891	80
82	7.655	7.703	7.751	7.799	7.848	7.896	7.944	7.992	8.040	8.088	82
84	7.842	7.891	7.940	7.990	8.040	8.088	8.138	8.187	8.236	8.286	84
86	8.028	8.079	8.129	8.180	8.230	8.281	8.331	8.382	8.432	8.483	86
88	8.215	8.267	8.318	8.370	8.422	8.473	8.525	8.577	8.628	8.680	88
90	8.402	8.455	8.508	8.560	8.613	8.666	8.719	8.772	8.825	8.877	90
92	8.589	8.643	8.697	8.751	8.805	8.859	8.913	8.967	9.021	9.075	92
94	8.775	8.830	8.886	8.941	8.996	9.051	9.106	9.162	9.217	9.272	94
96	9.962	9.018	9.075	9.131	9.187	9.244	9.300	9.357	9.413	9.469	96
98	9.149	9.206	9.264	9.321	9.379	9.436	9.494	9.551	9.609	9.667	98
100	9.335	9.394	9.453	9.511	9.570	9.629	9.688	9.746	9.805	9.864	100

Távolság	5 ⁰										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0·099	0·100	0·100	0·101	0·102	0·102	0·103	0·103	0·104	0·105	1
2	0·198	0·200	0·201	0·202	0·203	0·204	0·206	0·207	0·208	0·209	2
4	0·397	0·399	0·402	0·404	0·406	0·409	0·411	0·413	0·416	0·418	4
6	0·595	0·599	0·602	0·606	0·609	0·613	0·617	0·620	0·624	0·627	6
8	0·794	0·799	0·803	0·808	0·813	0·817	0·822	0·827	0·831	0·836	8
10	0·992	0·998	1·004	1·010	1·016	1·022	1·028	1·033	1·039	1·045	10
12	1·191	1·198	1·205	1·212	1·219	1·226	1·233	1·240	1·247	1·254	12
14	1·389	1·397	1·406	1·414	1·422	1·430	1·439	1·447	1·455	1·463	14
16	1·588	1·597	1·606	1·616	1·625	1·635	1·644	1·653	1·663	1·672	16
18	1·786	1·797	1·807	1·818	1·828	1·839	1·850	1·860	1·871	1·881	18
20	1·985	1·996	2·008	2·020	2·032	2·043	2·055	2·067	2·079	2·090	20
22	2·183	2·196	2·209	2·222	2·235	2·248	2·261	2·273	2·286	2·299	22
24	2·381	2·396	2·410	2·424	2·438	2·452	2·466	2·480	2·494	2·508	24
26	2·580	2·595	2·610	2·626	2·641	2·656	2·672	2·687	2·702	2·717	26
28	2·778	2·795	2·811	2·828	2·844	2·861	2·877	2·894	2·910	2·926	28
30	2·977	2·994	3·012	3·030	3·047	3·065	3·083	3·100	3·118	3·135	30
32	3·175	3·194	3·213	3·232	3·250	3·269	3·288	3·307	3·326	3·345	32
34	3·374	3·394	3·414	3·434	3·454	3·474	3·494	3·514	3·534	3·554	34
36	3·572	3·593	3·614	3·636	3·657	3·678	3·699	3·720	3·741	3·763	36
38	3·771	3·793	3·815	3·838	3·860	3·882	3·905	3·927	3·949	3·972	38
40	3·970	3·993	4·016	4·040	4·063	4·087	4·110	4·134	4·157	4·181	40
42	4·167	4·192	4·217	4·242	4·266	4·291	4·316	4·340	4·365	4·390	42
44	4·366	4·392	4·418	4·444	4·469	4·495	4·521	4·547	4·573	4·599	44
46	4·564	4·591	4·618	4·645	4·672	4·700	4·727	4·754	4·781	4·808	46
48	4·763	4·791	4·819	4·847	4·876	4·904	4·932	4·960	4·989	5·017	48
50	4·961	4·991	5·020	5·049	5·079	5·108	5·138	5·167	5·196	5·226	50
52	5·160	5·190	5·221	5·251	5·282	5·313	5·343	5·374	5·404	5·435	52
54	5·358	5·390	5·422	5·453	5·485	5·517	5·549	5·580	5·612	5·644	54
56	5·557	5·590	5·622	5·655	5·688	5·721	5·754	5·787	5·820	5·853	56
58	5·755	5·789	5·823	5·857	5·891	5·926	5·960	5·994	6·028	6·062	58
60	5·954	5·989	6·024	6·059	6·095	6·130	6·165	6·200	6·236	6·271	60
62	6·152	6·188	6·225	6·261	6·298	6·334	6·371	6·407	6·444	6·480	62
64	6·350	6·388	6·426	6·463	6·501	6·538	6·576	6·614	6·651	6·689	64
66	6·549	6·588	6·626	6·665	6·704	6·743	6·782	6·820	6·859	6·898	66
68	6·747	6·787	6·827	6·867	6·907	6·947	6·987	7·027	7·067	7·107	68
70	6·946	6·987	7·028	7·069	7·110	7·151	7·193	7·234	7·275	7·316	70
72	7·144	7·187	7·229	7·271	7·313	7·356	7·398	7·440	7·483	7·525	72
74	7·343	7·386	7·430	7·473	7·517	7·560	7·604	7·647	7·691	7·734	74
76	7·541	7·586	7·630	7·675	7·720	7·764	7·809	7·854	7·899	7·943	76
78	7·740	7·785	7·831	7·877	7·923	7·969	8·015	8·061	8·106	8·152	78
80	7·938	7·985	8·032	8·079	8·126	8·173	8·220	8·267	8·314	8·361	80
82	8·137	8·185	8·233	8·281	8·329	8·377	8·426	8·474	8·522	8·570	82
84	8·335	8·384	8·434	8·483	8·532	8·582	8·631	8·681	8·730	8·779	84
86	8·533	8·584	8·634	8·685	8·736	8·786	8·837	8·887	8·938	8·988	86
88	8·732	8·784	8·835	8·887	8·939	8·990	9·042	9·094	9·146	9·197	88
90	8·930	8·983	9·036	9·089	9·142	9·195	9·248	9·301	9·354	9·406	90
92	9·129	9·183	9·237	9·291	9·345	9·399	9·453	9·507	9·561	9·615	92
94	9·327	9·382	9·438	9·493	9·548	9·603	9·659	9·714	9·769	9·825	94
96	9·526	9·582	9·638	9·695	9·751	9·808	9·864	9·921	9·977	10·034	96
98	9·724	9·782	9·839	9·897	9·954	10·012	10·070	10·127	10·185	10·243	98
100	9·923	9·981	10·040	10·099	10·158	10·216	10·275	10·334	10·393	10·452	100

Távolság	6 ^o										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	1
2	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	2
4	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	4
6	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.66	0.66	0.66	6
8	0.84	0.85	0.85	0.85	0.86	0.86	0.87	0.87	0.88	0.88	8
10	1.05	1.06	1.06	1.07	1.07	1.08	1.09	1.09	1.10	1.10	10
12	1.26	1.27	1.28	1.28	1.29	1.30	1.30	1.31	1.32	1.32	12
14	1.47	1.48	1.49	1.50	1.50	1.51	1.52	1.53	1.54	1.55	14
16	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	16
18	1.89	1.90	1.91	1.92	1.93	1.94	1.96	1.97	1.98	1.99	18
20	2.10	2.11	2.13	2.14	2.15	2.16	2.17	2.18	2.20	2.21	20
22	2.31	2.33	2.34	2.35	2.36	2.38	2.39	2.40	2.42	2.43	22
24	2.52	2.54	2.55	2.56	2.58	2.59	2.61	2.62	2.64	2.65	24
26	2.73	2.75	2.76	2.78	2.79	2.81	2.82	2.84	2.86	2.87	26
28	2.94	2.96	2.98	2.99	3.01	3.03	3.04	3.06	3.07	3.09	28
30	3.15	3.17	3.19	3.21	3.22	3.24	3.26	3.28	3.29	3.31	30
32	3.36	3.38	3.40	3.42	3.44	3.46	3.48	3.50	3.51	3.53	32
34	3.57	3.59	3.61	3.63	3.65	3.67	3.69	3.71	3.73	3.75	34
36	3.78	3.80	3.83	3.85	3.87	3.89	3.91	3.93	3.95	3.97	36
38	3.99	4.02	4.04	4.06	4.08	4.11	4.13	4.15	4.17	4.20	38
40	4.20	4.23	4.25	4.27	4.30	4.32	4.35	4.37	4.39	4.42	40
42	4.41	4.44	4.46	4.49	4.51	4.54	4.56	4.59	4.61	4.64	42
44	4.62	4.65	4.68	4.70	4.73	4.75	4.78	4.81	4.83	4.86	44
46	4.83	4.86	4.89	4.92	4.94	4.97	5.00	5.02	5.05	5.08	46
48	5.04	5.07	5.10	5.13	5.16	5.19	5.21	5.24	5.27	5.30	48
50	5.26	5.28	5.31	5.34	5.37	5.40	5.43	5.46	5.49	5.52	50
52	5.47	5.50	5.53	5.56	5.59	5.62	5.65	5.68	5.71	5.74	52
54	5.68	5.71	5.74	5.77	5.80	5.83	5.87	5.90	5.93	5.96	54
56	5.89	5.92	5.95	5.98	6.02	6.05	6.08	6.12	6.15	6.18	56
58	6.10	6.13	6.16	6.20	6.23	6.27	6.30	6.33	6.37	6.40	58
60	6.31	6.34	6.38	6.41	6.45	6.48	6.52	6.55	6.59	6.62	60
62	6.52	6.55	6.59	6.63	6.66	6.70	6.74	6.77	6.81	6.84	62
64	6.73	6.76	6.80	6.84	6.88	6.91	6.95	6.99	7.03	7.07	64
66	6.94	6.98	7.01	7.05	7.09	7.13	7.17	7.21	7.25	7.29	66
68	7.15	7.19	7.23	7.27	7.31	7.35	7.39	7.43	7.47	7.51	68
70	7.36	7.40	7.44	7.48	7.52	7.56	7.60	7.65	7.69	7.73	70
72	7.57	7.61	7.65	7.69	7.74	7.78	7.82	7.86	7.91	7.95	72
74	7.78	7.82	7.86	7.91	7.95	8.00	8.04	8.08	8.13	8.17	74
76	7.99	8.03	8.08	8.12	8.17	8.21	8.26	8.30	8.35	8.39	76
78	8.20	8.24	8.29	8.34	8.38	8.43	8.47	8.52	8.57	8.61	78
80	8.41	8.46	8.50	8.55	8.60	8.64	8.69	8.74	8.78	8.83	80
82	8.62	8.67	8.71	8.76	8.81	8.86	8.91	8.96	9.00	9.05	82
84	8.83	8.88	8.93	8.98	9.03	9.08	9.13	9.17	9.22	9.27	84
86	9.04	9.09	9.14	9.19	9.24	9.29	9.34	9.39	9.44	9.49	86
88	9.25	9.30	9.35	9.40	9.46	9.51	9.56	9.61	9.66	9.72	88
90	9.46	9.51	9.57	9.62	9.67	9.72	9.78	9.83	9.88	9.94	90
92	9.67	9.72	9.78	9.83	9.89	9.94	9.99	10.05	10.10	10.16	92
94	9.88	9.93	9.99	10.05	10.10	10.16	10.21	10.27	10.32	10.38	94
96	10.09	10.15	10.20	10.26	10.32	10.37	10.43	10.49	10.54	10.60	96
98	10.30	10.36	10.42	10.47	10.53	10.59	10.65	10.70	10.76	10.82	98
100	10.51	10.57	10.63	10.69	10.75	10.80	10.86	10.92	10.98	11.04	100

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	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0:11	0:11	0:11	0:11	0:11	0:11	0:11	0:12	0:12	0:12	1
2	0:22	0:22	0:22	0:23	0:23	0:23	0:23	0:23	0:23	0:23	2
4	0:44	0:45	0:45	0:45	0:45	0:46	0:46	0:46	0:46	0:47	4
6	0:67	0:67	0:67	0:68	0:68	0:68	0:69	0:69	0:69	0:70	6
8	0:89	0:89	0:90	0:90	0:91	0:91	0:92	0:92	0:93	0:93	8
10	1:11	1:12	1:12	1:13	1:13	1:14	1:15	1:15	1:16	1:16	10
12	1:33	1:34	1:35	1:35	1:36	1:37	1:37	1:38	1:39	1:40	12
14	1:55	1:56	1:57	1:58	1:59	1:60	1:60	1:61	1:62	1:63	14
16	1:78	1:79	1:79	1:80	1:81	1:82	1:83	1:84	1:85	1:86	16
18	2:00	2:01	2:02	2:03	2:04	2:05	2:06	2:07	2:08	2:09	18
20	2:22	2:23	2:24	2:26	2:27	2:28	2:29	2:30	2:31	2:33	20
22	2:44	2:45	2:47	2:48	2:49	2:51	2:52	2:53	2:55	2:56	22
24	2:66	2:68	2:69	2:71	2:72	2:73	2:75	2:76	2:78	2:79	24
26	2:89	2:90	2:92	2:93	2:95	2:96	2:98	2:99	3:01	3:02	26
28	3:11	3:12	3:14	3:16	3:17	3:19	3:21	3:22	3:24	3:26	28
30	3:33	3:35	3:37	3:38	3:40	3:42	3:44	3:45	3:47	3:49	30
32	3:55	3:57	3:59	3:61	3:63	3:65	3:66	3:68	3:70	3:72	32
34	3:77	3:79	3:81	3:83	3:85	3:87	3:89	3:91	3:93	3:95	34
36	4:00	4:02	4:04	4:06	4:08	4:10	4:12	4:14	4:17	4:19	36
38	4:22	4:24	4:26	4:28	4:31	4:33	4:35	4:37	4:40	4:42	38
40	4:44	4:46	4:49	4:51	4:53	4:56	4:58	4:60	4:63	4:65	40
42	4:66	4:69	4:71	4:74	4:76	4:79	4:81	4:83	4:86	4:88	42
44	4:88	4:91	4:94	4:96	4:99	5:01	5:04	5:07	5:09	5:12	44
46	5:11	5:13	5:16	5:19	5:21	5:24	5:27	5:30	5:32	5:35	46
48	5:33	5:36	5:38	5:41	5:44	5:47	5:50	5:53	5:55	5:58	48
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52	5:77	5:80	5:83	5:86	5:89	5:92	5:96	5:99	6:02	6:05	52
54	5:99	6:03	6:06	6:09	6:12	6:15	6:18	6:22	6:25	6:28	54
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58	6:44	6:47	6:51	6:54	6:57	6:61	6:64	6:68	6:71	6:75	58
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62	6:88	6:92	6:95	6:99	7:03	7:06	7:10	7:14	7:17	7:21	62
64	7:10	7:14	7:18	7:22	7:25	7:29	7:33	7:37	7:40	7:44	64
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74	8:21	8:26	8:30	8:34	8:39	8:43	8:47	8:52	8:56	8:61	74
76	8:44	8:48	8:52	8:57	8:61	8:66	8:70	8:75	8:79	8:84	76
78	8:66	8:70	8:75	8:80	8:84	8:89	8:93	8:98	9:02	9:07	78
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86	9:55	9:60	9:65	9:70	9:75	9:80	9:85	9:90	9:95	10:00	86
88	9:77	9:82	9:87	9:92	9:97	10:03	10:08	10:13	10:18	10:23	88
90	9:99	10:04	10:10	10:15	10:20	10:25	10:31	10:36	10:41	10:47	90
92	10:21	10:27	10:32	10:37	10:43	10:48	10:54	10:59	10:64	10:70	92
94	10:43	10:46	10:54	10:60	10:65	10:71	10:77	10:82	10:88	10:93	94
96	10:66	10:71	10:77	10:82	10:88	10:94	10:99	11:05	11:11	11:16	96
98	10:88	10:93	10:99	11:05	11:11	11:17	11:22	11:28	11:34	11:40	98
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2	0:23	0:23	0:24	0:24	0:24	0:24	0:24	0:24	0:24	0:24	2
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6	0:70	0:70	0:71	0:71	0:72	0:72	0:72	0:73	0:73	0:73	6
8	0:94	0:94	0:94	0:95	0:95	0:96	0:96	0:97	0:97	0:98	8
10	1:17	1:17	1:18	1:19	1:19	1:20	1:20	1:21	1:22	1:22	10
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14	1:64	1:64	1:65	1:66	1:67	1:68	1:69	1:69	1:70	1:71	14
16	1:87	1:88	1:89	1:90	1:91	1:92	1:93	1:94	1:95	1:96	16
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40	4:68	4:70	4:72	4:75	4:77	4:79	4:82	4:84	4:86	4:89	40
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44	5:14	5:17	5:19	5:22	5:25	5:27	5:30	5:32	5:35	5:38	44
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48	5:61	5:64	5:67	5:70	5:72	5:75	5:78	5:81	5:84	5:87	48
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66	7:71	7:75	7:79	7:83	7:87	7:91	7:95	7:99	8:03	8:06	66
68	7:95	7:99	8:03	8:07	8:11	8:15	8:19	8:23	8:27	8:31	68
70	8:18	8:22	8:26	8:31	8:35	8:39	8:43	8:47	8:51	8:55	70
72	8:42	8:46	8:50	8:54	8:59	8:63	8:67	8:71	8:76	8:80	72
74	8:65	8:69	8:74	8:78	8:82	8:87	8:91	8:95	9:00	9:04	74
76	8:88	8:93	8:97	9:02	9:06	9:11	9:15	9:20	9:24	9:29	76
78	9:12	9:16	9:21	9:25	9:30	9:35	9:39	9:44	9:49	9:53	78
80	9:35	9:40	9:44	9:49	9:54	9:59	9:63	9:68	9:73	9:78	80
82	9:58	9:63	9:68	9:73	9:78	9:83	9:87	9:92	10:07	10:02	82
84	9:82	9:87	9:92	9:97	10:02	10:07	10:12	10:17	10:21	10:26	84
86	10:05	10:10	10:15	10:20	10:25	10:31	10:36	10:41	10:45	10:51	86
88	10:29	10:34	10:39	10:44	10:49	10:55	10:60	10:65	10:70	10:75	88
90	10:52	10:57	10:63	10:68	10:73	10:78	10:84	10:89	10:94	11:00	90
92	10:75	10:81	10:86	10:92	10:97	11:02	11:08	11:13	11:19	11:24	92
94	10:99	11:04	11:10	11:15	11:21	11:26	11:32	11:38	11:43	11:49	94
96	11:22	11:28	11:33	11:39	11:45	11:50	11:56	11:62	11:67	11:73	96
98	11:45	11:51	11:57	11:63	11:69	11:74	11:80	11:86	11:92	11:98	98
100	11:69	11:75	11:81	11:87	11:92	11:98	12:04	12:10	12:16	12:22	100

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1	0:12	0:12	0:12	0:12	0:13	0:13	0:13	0:13	0:13	0:13	1
2	0:25	0:25	0:25	0:25	0:25	0:25	0:25	0:25	0:26	0:26	2
4	0:49	0:49	0:50	0:50	0:50	0:50	0:51	0:51	0:51	0:51	4
6	0:74	0:74	0:74	0:75	0:75	0:75	0:76	0:76	0:77	0:77	6
8	0:98	0:99	0:99	1:00	1:00	1:01	1:01	1:02	1:02	0:02	8
10	1:23	1:23	1:24	1:25	1:25	1:26	1:26	1:27	1:28	1:28	10
12	1:47	1:48	1:49	1:49	1:50	1:51	1:52	1:52	1:53	1:54	12
14	1:72	1:73	1:74	1:74	1:75	1:76	1:77	1:78	1:79	1:79	14
16	1:96	1:97	1:98	1:99	2:00	2:01	2:02	2:03	2:04	2:05	16
18	2:21	2:22	2:23	2:24	2:25	2:26	2:27	2:28	2:30	2:31	18
20	2:46	2:47	2:48	2:49	2:50	2:51	2:53	2:54	2:55	2:56	20
22	2:70	2:71	2:73	2:74	2:75	2:77	2:78	2:79	2:81	2:82	22
24	2:95	2:96	2:98	2:99	3:00	3:02	3:03	3:05	3:06	3:07	24
26	3:19	3:21	3:22	3:24	3:25	3:27	3:28	3:30	3:32	3:33	26
28	3:44	3:45	3:47	3:49	3:50	3:52	3:54	3:55	3:57	3:59	28
30	3:68	3:70	3:72	3:74	3:75	3:77	3:79	3:81	3:83	3:84	30
32	3:93	3:95	3:97	3:99	4:00	4:02	4:04	4:06	4:08	4:10	32
34	4:17	4:19	4:21	4:23	4:25	4:28	4:30	4:32	4:34	4:36	34
36	4:42	4:44	4:46	4:48	4:50	4:53	4:55	4:57	4:59	4:61	36
38	4:67	4:69	4:71	4:73	4:76	4:78	4:80	4:82	4:85	4:87	38
40	4:91	4:93	4:96	4:98	5:01	5:03	5:05	5:08	5:10	5:12	40
42	5:16	5:18	5:21	5:23	5:26	5:28	5:31	5:33	5:36	5:38	42
44	5:40	5:43	5:45	5:48	5:51	5:53	5:56	5:58	5:61	5:64	44
46	5:65	5:68	5:70	5:73	5:76	5:78	5:81	5:84	5:87	5:89	46
48	5:89	5:92	5:95	5:98	6:01	6:04	6:06	6:09	6:12	6:15	48
50	6:14	6:17	6:20	6:23	6:26	6:29	6:32	6:35	6:38	6:41	50
52	6:38	6:42	6:45	6:48	6:51	6:54	6:57	6:60	6:63	6:66	52
54	6:63	6:66	6:69	6:73	6:76	6:79	6:82	6:85	6:89	6:92	54
56	6:88	6:91	6:94	6:98	7:01	7:04	7:07	7:11	7:14	7:17	56
58	7:12	7:16	7:19	7:22	7:26	7:29	7:33	7:36	7:40	7:43	58
60	7:37	7:40	7:44	7:47	7:51	7:54	7:58	7:62	7:65	7:69	60
62	7:61	7:65	7:69	7:72	7:76	7:80	7:83	7:87	7:91	7:94	62
64	7:86	7:90	7:93	7:97	8:01	8:05	8:09	8:12	8:16	8:20	64
66	8:10	8:14	8:18	8:22	8:26	8:30	8:34	8:38	8:42	8:45	66
68	8:35	8:39	8:43	8:47	8:51	8:55	8:59	8:63	8:67	8:71	68
70	8:60	8:64	8:68	8:72	8:76	8:80	8:84	8:88	8:93	8:97	70
72	8:84	8:88	8:93	8:97	9:01	9:05	9:10	9:14	9:18	9:22	72
74	9:09	9:13	9:17	9:22	9:26	9:30	9:35	9:39	9:44	9:48	74
76	9:33	9:38	9:42	9:47	9:51	9:56	9:60	9:65	9:69	9:74	76
78	9:58	9:62	9:67	9:72	9:76	9:81	9:85	9:90	9:95	9:99	78
80	9:82	9:87	9:92	9:96	10:01	10:06	10:11	10:15	10:20	10:25	80
82	10:07	10:12	10:16	10:21	10:26	10:31	10:36	10:41	10:46	10:50	82
84	10:31	10:36	10:41	10:46	10:51	10:56	10:61	10:66	10:71	10:76	84
86	10:56	10:61	10:66	10:71	10:76	10:81	10:86	10:92	10:97	11:02	86
88	10:80	10:86	10:91	10:96	11:01	11:07	11:12	11:17	11:22	11:27	88
90	11:05	11:10	11:16	11:21	11:26	11:32	11:37	11:42	11:48	11:53	90
92	11:30	11:35	11:40	11:46	11:51	11:57	11:62	11:68	11:73	11:79	92
94	11:54	11:60	11:65	11:71	11:76	11:82	11:87	11:93	11:99	12:04	94
96	11:79	11:84	11:90	11:96	12:01	12:07	12:13	12:18	12:24	12:30	96
98	12:03	12:09	12:15	12:21	12:26	12:32	12:38	12:44	12:50	12:55	98
100	12:28	12:34	12:40	12:46	12:51	12:57	12:63	12:69	12:75	12:81	100

Távolság	7 ^o										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	1
2	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.27	2
4	0.51	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.53	0.54	4
6	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.80	0.80	6
8	1.03	1.03	1.04	1.04	1.05	1.05	1.06	1.06	1.07	1.07	8
10	1.29	1.29	1.30	1.30	1.31	1.32	1.32	1.33	1.33	1.34	10
12	1.54	1.55	1.56	1.57	1.57	1.58	1.59	1.59	1.60	1.61	12
14	1.80	1.81	1.82	1.83	1.83	1.84	1.85	1.86	1.87	1.88	14
16	2.06	2.07	2.08	2.09	2.10	2.11	2.12	2.13	2.13	2.14	16
18	2.32	2.33	2.34	2.35	2.36	2.37	2.38	2.39	2.40	2.41	18
20	2.57	2.59	2.60	2.61	2.62	2.63	2.64	2.66	2.67	2.68	20
22	2.83	2.84	2.86	2.87	2.88	2.90	2.91	2.92	2.94	2.95	22
24	3.09	3.10	3.12	3.13	3.15	3.16	3.17	3.19	3.20	3.22	24
26	3.35	3.36	3.38	3.39	3.41	3.42	3.44	3.45	3.47	3.48	26
28	3.60	3.62	3.64	3.65	3.67	3.69	3.70	3.72	3.74	3.75	28
30	3.86	3.88	3.90	3.91	3.93	3.95	3.97	3.98	4.00	4.02	30
32	4.12	4.14	4.16	4.17	4.19	4.21	4.23	4.25	4.27	4.29	32
34	4.38	4.40	4.42	4.44	4.46	4.48	4.50	4.52	4.54	4.56	34
36	4.63	4.65	4.68	4.70	4.72	4.74	4.76	4.78	4.80	4.82	36
38	4.89	4.91	4.94	4.96	4.98	5.00	5.03	5.05	5.07	5.09	38
40	5.15	5.17	5.20	5.22	5.24	5.27	5.29	5.31	5.34	5.36	40
42	5.40	5.43	5.45	5.48	5.50	5.53	5.55	5.58	5.60	5.63	42
44	5.66	5.69	5.71	5.74	5.77	5.79	5.82	5.84	5.87	5.90	44
46	5.92	5.95	5.97	6.00	6.03	6.06	6.08	6.11	6.14	6.16	46
48	6.18	6.21	6.23	6.26	6.29	6.32	6.35	6.38	6.40	6.43	48
50	6.43	6.46	6.49	6.52	6.55	6.58	6.61	6.64	6.67	6.70	50
52	6.69	6.72	6.75	6.78	6.82	6.85	6.88	6.91	6.94	6.97	52
54	6.95	6.98	7.01	7.04	7.08	7.11	7.14	7.17	7.21	7.24	54
56	7.21	7.24	7.27	7.31	7.34	7.37	7.41	7.44	7.47	7.51	56
58	7.46	7.50	7.53	7.57	7.60	7.64	7.67	7.70	7.74	7.77	58
60	7.72	7.76	7.79	7.83	7.86	7.90	7.93	7.97	8.01	8.04	60
62	7.98	8.02	8.05	8.09	8.13	8.16	8.20	8.23	8.27	8.31	62
64	8.24	8.27	8.31	8.35	8.39	8.43	8.46	8.49	8.54	8.58	64
66	8.49	8.53	8.57	8.61	8.65	8.69	8.73	8.76	8.81	8.85	66
68	8.75	8.79	8.83	8.87	8.91	8.95	8.99	9.02	9.07	9.11	68
70	9.01	9.05	9.09	9.13	9.17	9.22	9.26	9.30	9.34	9.38	70
72	9.27	9.31	9.35	9.39	9.44	9.48	9.52	9.55	9.61	9.65	72
74	9.52	9.57	9.61	9.65	9.70	9.74	9.79	9.82	9.87	9.92	74
76	9.78	9.83	9.87	9.91	9.96	10.01	10.05	10.08	10.14	10.19	76
78	10.04	10.08	10.13	10.18	10.22	10.27	10.31	10.35	10.41	10.45	78
80	10.30	10.34	10.39	10.44	10.48	10.53	10.58	10.63	10.67	10.72	80
82	10.55	10.60	10.65	10.70	10.75	10.80	10.84	10.89	10.94	10.99	82
84	10.81	10.86	10.91	10.96	11.01	11.06	11.11	11.16	11.21	11.26	84
86	11.07	11.12	11.17	11.22	11.27	11.32	11.37	11.42	11.47	11.53	86
88	11.32	11.38	11.43	11.48	11.53	11.59	11.64	11.69	11.74	11.79	88
90	11.58	11.64	11.69	11.74	11.80	11.85	11.90	11.95	12.01	12.06	90
92	11.84	11.89	11.95	12.00	12.06	12.11	12.17	12.22	12.28	12.33	92
94	12.10	12.15	12.21	12.26	12.32	12.38	12.43	12.49	12.54	12.60	94
96	12.35	12.41	12.47	12.52	12.58	12.64	12.70	12.75	12.81	12.87	96
98	12.61	12.67	12.73	12.78	12.84	12.90	12.96	13.02	13.08	13.13	98
100	12.87	12.93	12.99	13.05	13.11	13.16	13.22	13.28	13.34	13.40	100

Távolság	7 ⁰										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0:13	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	0:14	1
2	0:27	0:27	0:27	0:27	0:27	0:28	0:28	0:28	0:28	0:28	2
4	0:54	0:54	0:54	0:55	0:55	0:55	0:55	0:56	0:56	0:56	4
6	0:81	0:81	0:81	0:82	0:82	0:83	0:83	0:83	0:84	0:84	6
8	1:08	1:08	1:09	1:09	1:10	1:10	1:11	1:11	1:11	1:12	8
10	1:35	1:35	1:36	1:36	1:37	1:38	1:38	1:39	1:39	1:40	10
12	1:62	1:62	1:63	1:64	1:64	1:65	1:66	1:67	1:67	1:68	12
14	1:88	1:89	1:90	1:91	1:92	1:93	1:94	1:94	1:95	1:96	14
16	2:15	2:16	2:17	2:18	2:19	2:20	2:21	2:22	2:23	2:24	16
18	2:42	2:43	2:44	2:46	2:47	2:48	2:49	2:50	2:51	2:52	18
20	2:69	2:70	2:72	2:73	2:74	2:75	2:76	2:78	2:79	2:80	20
22	2:96	2:97	2:99	3:00	3:01	3:03	3:04	3:05	3:07	3:08	22
24	3:23	3:25	3:26	3:27	3:29	3:30	3:32	3:33	3:34	3:36	24
26	3:50	3:52	3:53	3:55	3:56	3:58	3:59	3:61	3:62	3:64	26
28	3:77	3:79	3:80	3:82	3:84	3:85	3:87	3:89	3:90	3:92	28
30	4:04	4:06	4:07	4:09	4:11	4:13	4:15	4:16	4:18	4:20	30
32	4:31	4:33	4:35	4:36	4:38	4:40	4:42	4:44	4:46	4:48	32
34	4:58	4:60	4:62	4:64	4:66	4:68	4:70	4:72	4:74	4:76	34
36	4:85	4:87	4:89	4:91	4:93	4:95	4:97	5:00	5:02	5:04	36
38	5:12	5:14	5:16	5:18	5:21	5:23	5:25	5:27	5:30	5:32	38
40	5:38	5:41	5:43	5:46	5:48	5:50	5:53	5:55	5:57	5:60	40
42	5:65	5:68	5:70	5:73	5:75	5:78	5:80	5:83	5:85	5:88	42
44	5:92	5:95	5:97	6:00	6:03	6:05	6:08	6:11	6:13	6:16	44
46	6:19	6:22	6:25	6:27	6:30	6:33	6:36	6:38	6:41	6:44	46
48	6:46	6:49	6:52	6:55	6:58	6:60	6:63	6:66	6:69	6:72	48
50	6:73	6:76	6:79	6:82	6:85	6:88	6:91	6:94	6:97	7:00	50
52	7:00	7:03	7:06	7:09	7:12	7:15	7:18	7:22	7:25	7:28	52
54	7:27	7:30	7:33	7:37	7:40	7:43	7:46	7:49	7:52	7:55	54
56	7:54	7:57	7:60	7:64	7:67	7:70	7:74	7:77	7:80	7:84	56
58	7:81	7:84	7:88	7:91	7:94	7:98	8:01	8:05	8:08	8:12	58
60	8:08	8:11	8:15	8:18	8:22	8:26	8:29	8:33	8:36	8:40	60
62	8:35	8:38	8:42	8:46	8:49	8:53	8:57	8:60	8:64	8:68	62
64	8:62	8:65	8:69	8:73	8:77	8:80	8:84	8:88	8:92	8:96	64
66	8:88	8:92	8:96	9:00	9:04	9:08	9:12	9:16	9:20	9:24	66
68	9:15	9:19	9:23	9:27	9:31	9:35	9:39	9:44	9:48	9:52	68
70	9:42	9:46	9:51	9:55	9:59	9:63	9:67	9:71	9:75	9:80	70
72	9:69	9:74	9:78	9:82	9:86	9:91	9:95	9:99	10:03	10:08	72
74	9:96	10:01	10:05	10:09	10:14	10:18	10:22	10:27	10:31	10:36	74
76	10:23	10:28	10:32	10:37	10:41	10:46	10:50	10:55	10:59	10:64	76
78	10:50	10:55	10:59	10:64	10:68	10:73	10:78	10:82	10:87	10:92	78
80	10:77	10:82	10:86	10:91	10:96	11:01	11:05	11:10	11:15	11:20	80
82	11:04	11:09	11:13	11:18	11:23	11:28	11:33	11:38	11:43	11:48	82
84	11:31	11:36	11:41	11:46	11:51	11:56	11:61	11:66	11:71	11:75	84
86	11:58	11:63	11:68	11:73	11:78	11:83	11:88	11:93	11:98	12:03	86
88	11:85	11:90	11:95	12:00	12:05	12:11	12:16	12:21	12:26	12:31	88
90	12:11	12:17	12:22	12:28	12:33	12:38	12:44	12:49	12:54	12:59	90
92	12:38	12:44	12:49	12:55	12:60	12:66	12:71	12:77	12:82	12:87	92
94	12:65	12:71	12:76	12:82	12:88	12:93	12:99	13:04	13:10	13:15	94
96	12:92	12:98	13:04	13:09	13:15	13:21	13:26	13:32	13:38	13:43	96
98	13:19	13:25	13:31	13:37	13:42	13:48	13:54	13:60	13:66	13:71	98
100	13:46	13:52	13:58	13:64	13:70	13:76	13:82	13:88	13:93	13:99	100

Távolság	S ⁰										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	1
2	0.28	0.28	0.28	0.28	0.29	0.29	0.29	0.29	0.29	0.29	2
4	0.56	0.56	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	4
6	0.84	0.85	0.85	0.85	0.86	0.86	0.86	0.87	0.87	0.88	6
8	1.12	1.13	1.13	1.14	1.14	1.15	1.15	1.16	1.16	1.17	8
10	1.41	1.41	1.42	1.42	1.43	1.43	1.44	1.45	1.45	1.46	10
12	1.69	1.69	1.70	1.71	1.71	1.72	1.73	1.74	1.74	1.75	12
14	1.97	1.98	1.98	1.99	2.00	2.01	2.02	2.03	2.03	2.04	14
16	2.25	2.26	2.27	2.28	2.29	2.30	2.31	2.32	2.32	2.33	16
18	2.53	2.54	2.55	2.56	2.57	2.58	2.59	2.60	2.62	2.63	18
20	2.81	2.82	2.83	2.85	2.86	2.87	2.88	2.89	2.91	2.92	20
22	3.09	3.11	3.12	3.13	3.14	3.16	3.17	3.18	3.20	3.21	22
24	3.37	3.39	3.40	3.42	3.43	3.44	3.46	3.47	3.49	3.50	24
26	3.65	3.67	3.68	3.70	3.72	3.73	3.75	3.76	3.78	3.79	26
28	3.94	3.95	3.97	3.98	4.00	4.02	4.03	4.05	4.07	4.08	28
30	4.22	4.23	4.25	4.27	4.29	4.30	4.32	4.34	4.36	4.38	30
32	4.50	4.52	4.54	4.55	4.57	4.59	4.61	4.63	4.65	4.67	32
34	4.78	4.80	4.82	4.84	4.86	4.88	4.90	4.92	4.94	4.96	34
36	5.06	5.08	5.10	5.12	5.14	5.17	5.19	5.21	5.23	5.25	36
38	5.34	5.36	5.39	5.41	5.43	5.45	5.48	5.50	5.52	5.54	38
40	5.62	5.65	5.67	5.69	5.72	5.74	5.76	5.79	5.81	5.84	40
42	5.90	5.93	5.95	5.98	6.00	6.03	6.05	6.08	6.10	6.13	42
44	6.18	6.21	6.24	6.26	6.29	6.31	6.34	6.37	6.39	6.42	44
46	6.46	6.49	6.52	6.55	6.57	6.60	6.63	6.66	6.68	6.71	46
48	6.75	6.77	6.80	6.83	6.86	6.89	6.92	6.95	6.97	7.00	48
50	7.03	7.06	7.09	7.12	7.15	7.17	7.20	7.23	7.26	7.29	50
52	7.31	7.34	7.37	7.40	7.43	7.46	7.49	7.52	7.56	7.59	52
54	7.59	7.62	7.65	7.69	7.72	7.75	7.78	7.81	7.85	7.88	54
56	7.87	7.90	7.94	7.97	8.00	8.04	8.07	8.10	8.14	8.17	56
58	8.15	8.19	8.22	8.25	8.29	8.32	8.36	8.39	8.43	8.46	58
60	8.43	8.47	8.50	8.54	8.57	8.61	8.65	8.68	8.72	8.75	60
62	8.71	8.75	8.79	8.82	8.86	8.90	8.93	8.97	9.01	9.04	62
64	8.99	9.03	9.07	9.11	9.15	9.18	9.22	9.26	9.30	9.34	64
66	9.28	9.32	9.35	9.39	9.43	9.47	9.51	9.55	9.59	9.63	66
68	9.56	9.60	9.64	9.68	9.72	9.76	9.80	9.84	9.88	9.92	68
70	9.84	9.88	9.92	9.96	10.00	10.04	10.09	10.13	10.17	10.21	70
72	10.12	10.16	10.20	10.25	10.29	10.33	10.38	10.42	10.46	10.50	72
74	10.40	10.44	10.49	10.53	10.58	10.62	10.66	10.71	10.75	10.80	74
76	10.68	10.73	10.77	10.82	10.86	10.91	10.95	11.00	11.04	11.09	76
78	10.96	11.01	11.05	11.10	11.15	11.19	11.24	11.29	11.33	11.38	78
80	11.24	11.29	11.34	11.39	11.43	11.48	11.53	11.58	11.62	11.67	80
82	11.52	11.57	11.62	11.67	11.72	11.77	11.82	11.86	11.91	11.96	82
84	11.81	11.86	11.91	11.95	12.00	12.05	12.10	12.15	12.20	12.25	84
86	12.09	12.14	12.19	12.24	12.29	12.34	12.39	12.44	12.49	12.55	86
88	12.37	12.42	12.47	12.52	12.58	12.63	12.68	12.73	12.79	12.84	88
90	12.65	12.70	12.76	12.81	12.86	12.91	12.97	13.02	13.08	13.13	90
92	12.93	12.98	13.04	13.09	13.15	13.20	13.26	13.31	13.37	13.42	92
94	13.21	13.27	13.32	13.38	13.43	13.49	13.55	13.60	13.66	13.71	94
96	13.49	13.55	13.61	13.66	13.72	13.78	13.83	13.89	13.95	14.00	96
98	13.77	13.83	13.89	13.95	14.01	14.06	14.12	14.18	14.24	14.30	98
100	14.05	14.11	14.17	14.23	14.29	14.35	14.41	14.47	14.53	14.59	100

Távolság	S ⁰										Távolság	
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'		
1	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	1
2	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	2
4	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.61	4
6	0.88	0.88	0.89	0.89	0.89	0.90	0.90	0.90	0.91	0.91	0.91	6
8	1.17	1.18	1.18	1.19	1.19	1.20	1.20	1.21	1.21	1.21	1.21	8
10	1.46	1.47	1.48	1.48	1.49	1.49	1.50	1.51	1.51	1.51	1.52	10
12	1.76	1.76	1.77	1.78	1.79	1.79	1.80	1.81	1.81	1.82	1.82	12
14	2.05	2.06	2.07	2.08	2.08	2.09	2.10	2.11	2.12	2.13	2.13	14
16	2.34	2.35	2.36	2.37	2.38	2.39	2.40	2.41	2.42	2.43	2.43	16
18	2.64	2.65	2.66	2.67	2.68	2.69	2.70	2.71	2.72	2.73	2.73	18
20	2.93	2.94	2.95	2.97	2.98	2.99	3.00	3.01	3.02	3.04	3.04	20
22	3.22	3.24	3.25	3.26	3.27	3.29	3.30	3.31	3.33	3.34	3.34	22
24	3.52	3.53	3.54	3.56	3.57	3.59	3.60	3.62	3.63	3.64	3.64	24
26	3.81	3.82	3.84	3.85	3.87	3.89	3.90	3.92	3.93	3.95	3.95	26
28	4.10	4.12	4.13	4.15	4.17	4.18	4.20	4.22	4.23	4.25	4.25	28
30	4.39	4.41	4.43	4.45	4.47	4.48	4.50	4.52	4.54	4.55	4.55	30
32	4.69	4.71	4.73	4.74	4.76	4.78	4.80	4.82	4.84	4.86	4.86	32
34	4.98	5.00	5.02	5.04	5.06	5.08	5.10	5.12	5.14	5.16	5.16	34
36	5.27	5.29	5.32	5.34	5.36	5.38	5.40	5.42	5.44	5.47	5.47	36
38	5.57	5.59	5.61	5.63	5.66	5.68	5.70	5.72	5.75	5.77	5.77	38
40	5.86	5.88	5.91	5.93	5.95	5.98	6.00	6.03	6.05	6.07	6.07	40
42	6.15	6.18	6.20	6.23	6.25	6.28	6.30	6.33	6.35	6.38	6.38	42
44	6.44	6.47	6.50	6.52	6.55	6.58	6.60	6.63	6.65	6.68	6.68	44
46	6.74	6.77	6.79	6.82	6.85	6.87	6.90	6.93	6.96	6.98	6.98	46
48	7.03	7.06	7.09	7.12	7.15	7.17	7.20	7.23	7.26	7.29	7.29	48
50	7.32	7.35	7.38	7.41	7.44	7.47	7.50	7.53	7.56	7.59	7.59	50
52	7.62	7.65	7.68	7.71	7.74	7.77	7.80	7.83	7.86	7.90	7.90	52
54	7.91	7.94	7.97	8.01	8.04	8.07	8.10	8.13	8.17	8.20	8.20	54
56	8.20	8.24	8.27	8.30	8.34	8.37	8.40	8.44	8.47	8.50	8.50	56
58	8.50	8.53	8.56	8.60	8.63	8.67	8.70	8.74	8.77	8.81	8.81	58
60	8.79	8.82	8.86	8.90	8.93	8.97	9.00	9.04	9.07	9.11	9.11	60
62	9.08	9.12	9.16	9.19	9.23	9.27	9.30	9.34	9.38	9.41	9.41	62
64	9.37	9.41	9.45	9.49	9.53	9.56	9.60	9.64	9.68	9.72	9.72	64
66	9.67	9.71	9.75	9.78	9.82	9.86	9.90	9.94	9.98	10.02	10.02	66
68	9.96	10.00	10.04	10.08	10.12	10.16	10.20	10.24	10.28	10.32	10.32	68
70	10.25	10.29	10.34	10.38	10.42	10.46	10.50	10.54	10.59	10.63	10.63	70
72	10.55	10.59	10.63	10.67	10.72	10.76	10.80	10.85	10.89	10.93	10.93	72
74	10.84	10.88	10.93	10.97	11.02	11.06	11.10	11.15	11.19	11.24	11.24	74
76	11.13	11.18	11.22	11.27	11.31	11.36	11.40	11.45	11.49	11.54	11.54	76
78	11.42	11.47	11.52	11.56	11.61	11.66	11.70	11.75	11.80	11.84	11.84	78
80	11.72	11.77	11.81	11.86	11.91	11.96	12.00	12.05	12.10	12.15	12.15	80
82	12.01	12.06	12.11	12.16	12.21	12.25	12.30	12.35	12.40	12.45	12.45	82
84	12.30	12.35	12.40	12.45	12.50	12.55	12.60	15.65	12.70	12.75	12.75	84
86	12.60	12.65	12.70	12.75	12.80	12.85	12.90	12.95	13.01	13.06	13.06	86
88	12.89	12.94	12.99	13.05	13.10	13.15	13.20	13.26	13.31	13.36	13.36	88
90	13.18	13.24	13.29	13.34	13.40	13.45	13.50	13.56	13.61	13.66	13.66	90
92	13.48	13.53	13.59	13.64	13.70	13.75	13.80	13.86	13.91	13.97	13.97	92
94	13.77	13.82	13.88	13.94	13.99	14.05	14.10	14.16	14.22	14.27	14.27	94
96	14.06	14.12	14.18	14.23	14.29	14.35	14.40	14.46	14.52	14.58	14.58	96
98	14.35	14.41	14.47	14.53	14.59	14.65	14.70	14.76	14.82	14.88	14.88	98
100	14.65	14.71	14.77	14.83	14.89	14.94	15.00	15.06	15.12	15.18	15.18	100

Távolság	S ⁰										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0:15	0:15	0:15	0:15	0:15	0:16	0:16	0:16	0:16	0:16	1
2	0:30	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:31	0:32	2
4	0:61	0:61	0:61	0:62	0:62	0:62	0:62	0:63	0:63	0:63	4
6	0:91	0:92	0:92	0:93	0:93	0:93	0:94	0:94	0:94	0:95	6
8	1:22	1:22	1:23	1:23	1:24	1:24	1:25	1:25	1:26	1:26	8
10	1:52	1:53	1:54	1:54	1:55	1:55	1:56	1:57	1:57	1:58	10
12	1:83	1:84	1:84	1:85	1:86	1:86	1:87	1:88	1:89	1:89	12
14	2:13	2:14	2:15	2:16	2:17	2:18	2:18	2:19	2:20	2:21	14
16	2:44	2:45	2:46	2:47	2:48	2:49	2:50	2:51	2:51	2:52	16
18	2:74	2:75	2:77	2:78	2:79	2:80	2:81	2:82	2:83	2:84	18
20	3:05	3:06	3:07	3:08	3:10	3:11	3:12	3:13	3:14	3:16	20
22	3:35	3:37	3:38	3:39	3:41	3:42	3:43	3:45	3:46	3:47	22
24	3:66	3:67	3:69	3:70	3:72	3:73	3:74	3:76	3:77	3:79	24
26	3:96	3:98	3:99	4:01	4:03	4:04	4:06	4:07	4:09	4:10	26
28	4:27	4:28	4:30	4:32	4:33	4:35	4:37	4:38	4:40	4:42	28
30	4:57	4:59	4:61	4:63	4:64	4:66	4:68	4:70	4:72	4:73	30
32	4:88	4:89	4:92	4:93	4:95	4:97	4:99	5:01	5:03	5:05	32
34	5:18	5:19	5:22	5:24	5:26	5:28	5:30	5:32	5:34	5:36	34
36	5:49	5:50	5:53	5:55	5:57	5:59	5:62	5:64	5:66	5:68	36
38	5:79	5:80	5:84	5:86	5:88	5:91	5:93	5:95	5:97	6:00	38
40	6:10	6:12	6:14	6:17	6:19	6:22	6:24	6:26	6:29	6:31	40
42	6:40	6:43	6:45	6:48	6:50	6:53	6:55	6:58	6:60	6:63	42
44	6:71	6:73	6:76	6:79	6:81	6:84	6:86	6:89	6:92	6:94	44
46	7:01	7:04	7:07	7:09	7:12	7:15	7:18	7:20	7:23	7:26	46
48	7:32	7:34	7:37	7:40	7:43	7:46	7:49	7:52	7:55	7:57	48
50	7:62	7:65	7:68	7:71	7:74	7:77	7:80	7:83	7:86	7:89	50
52	7:93	7:96	7:99	8:02	8:05	8:08	8:11	8:14	8:17	8:21	52
54	8:23	8:26	8:30	8:33	8:36	8:39	8:42	8:46	8:49	8:52	54
56	8:53	8:57	8:60	8:64	8:67	8:70	8:74	8:77	8:80	8:84	56
58	8:84	8:88	8:91	8:94	8:98	9:01	9:05	9:08	9:12	9:15	58
60	9:14	9:18	9:22	9:25	9:29	9:32	9:36	9:40	9:43	9:47	60
62	9:45	9:49	9:52	9:56	9:60	9:63	9:67	9:71	9:75	9:78	62
64	9:75	9:79	9:83	9:87	9:91	9:95	9:98	10:02	10:06	10:10	64
66	10:06	10:10	10:14	10:18	10:22	10:26	10:30	10:34	10:37	10:41	66
68	10:36	10:41	10:45	10:49	10:53	10:57	10:61	10:65	10:69	10:73	68
70	10:67	10:71	10:75	10:79	10:84	10:88	10:92	10:96	11:00	11:04	70
72	10:97	11:02	11:06	11:10	11:15	11:19	11:23	11:28	11:32	11:36	72
74	11:28	11:32	11:37	11:41	11:46	11:50	11:54	11:59	11:63	11:68	74
76	11:58	11:63	11:68	11:72	11:77	11:81	11:86	11:90	11:95	11:99	76
78	11:89	11:94	11:98	12:03	12:08	12:12	12:17	12:21	12:26	12:31	78
80	12:19	12:24	12:29	12:34	12:38	12:43	12:48	12:53	12:58	12:62	80
82	12:50	12:55	12:60	12:65	12:69	12:74	12:79	12:84	12:89	12:94	82
84	12:80	12:85	12:90	12:95	13:00	13:05	13:10	13:15	13:20	13:25	84
86	13:11	13:16	13:21	13:26	13:31	13:36	13:42	13:47	13:52	13:57	86
88	13:41	13:47	13:52	13:57	13:62	13:68	13:73	13:78	13:83	13:88	88
90	13:72	13:77	13:83	13:88	13:93	13:99	14:04	14:09	14:15	14:20	90
92	14:02	14:08	14:13	14:19	14:24	14:30	14:35	14:41	14:46	14:52	92
94	14:33	14:38	14:44	14:50	14:55	14:61	14:66	14:72	14:78	14:83	94
96	14:63	14:69	14:74	14:80	14:86	14:92	14:98	15:03	15:09	15:15	96
98	14:94	15:00	15:05	15:11	15:17	15:23	15:29	15:35	15:40	15:46	98
100	15:24	15:30	15:36	15:42	15:48	15:54	15:60	15:66	15:72	15:78	100

Távolság	9 ⁰										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	1
2	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.33	0.33	0.33	2
4	0.63	0.64	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.66	4
6	0.95	0.95	0.96	0.96	0.96	0.97	0.97	0.98	0.98	0.98	6
8	1.27	1.27	1.28	1.28	1.29	1.29	1.30	1.30	1.31	1.31	8
10	1.58	1.59	1.60	1.60	1.61	1.61	1.62	1.63	1.63	1.64	10
12	1.90	1.91	1.91	1.92	1.93	1.94	1.94	1.95	1.96	1.97	12
14	2.22	2.23	2.23	2.24	2.25	2.26	2.27	2.28	2.28	2.29	14
16	2.53	2.54	2.55	2.56	2.57	2.58	2.59	2.60	2.61	2.62	16
18	2.85	2.86	2.87	2.88	2.89	2.90	2.92	2.93	2.94	2.95	18
20	3.17	3.18	3.19	3.20	3.22	3.23	3.24	3.25	3.26	3.28	20
22	3.48	3.50	3.51	3.52	3.54	3.55	3.56	3.58	3.59	3.60	22
24	3.80	3.82	3.83	3.84	3.86	3.87	3.89	3.90	3.92	3.93	24
26	4.12	4.13	4.15	4.16	4.18	4.20	4.21	4.23	4.24	4.26	26
28	4.43	4.45	4.47	4.48	4.50	4.52	4.53	4.55	4.57	4.59	28
30	4.75	4.77	4.79	4.81	4.82	4.84	4.86	4.88	4.89	4.91	30
32	5.07	5.09	5.11	5.13	5.14	5.16	5.18	5.20	5.22	5.24	32
34	5.38	5.41	5.43	5.45	5.47	5.49	5.51	5.53	5.55	5.57	34
36	5.70	5.72	5.75	5.77	5.79	5.81	5.83	5.85	5.87	5.90	36
38	6.02	6.04	6.07	6.09	6.11	6.13	6.15	6.18	6.20	6.22	38
40	6.34	6.36	6.38	6.41	6.43	6.46	6.48	6.50	6.53	6.55	40
42	6.65	6.68	6.70	6.73	6.75	6.78	6.80	6.83	6.85	6.88	42
44	6.97	7.00	7.02	7.05	7.07	7.10	7.13	7.15	7.18	7.21	44
46	7.29	7.31	7.34	7.37	7.39	7.42	7.45	7.48	7.51	7.53	46
48	7.60	7.63	7.66	7.69	7.72	7.75	7.77	7.80	7.83	7.86	48
50	7.92	7.95	7.98	8.01	8.04	8.07	8.10	8.13	8.16	8.19	50
52	8.24	8.27	8.30	8.33	8.36	8.39	8.42	8.45	8.48	8.52	52
54	8.55	8.58	8.62	8.65	8.68	8.71	8.75	8.78	8.81	8.84	54
56	8.87	8.90	8.94	8.97	9.00	9.04	9.07	9.10	9.14	9.17	56
58	9.19	9.22	9.26	9.29	9.32	9.36	9.39	9.43	9.46	9.50	58
60	9.50	9.54	9.57	9.61	9.65	9.68	9.72	9.75	9.79	9.83	60
62	9.82	9.86	9.89	9.93	9.97	10.00	10.04	10.08	10.12	10.15	62
64	10.14	10.17	10.21	10.25	10.29	10.33	10.37	10.40	10.44	10.48	64
66	10.45	10.49	10.53	10.57	10.61	10.65	10.69	10.73	10.77	10.81	66
68	10.77	10.81	10.85	10.89	10.93	10.97	11.01	11.05	11.09	11.14	68
70	11.09	11.13	11.17	11.21	11.25	11.30	11.34	11.38	11.42	11.46	70
72	11.40	11.45	11.49	11.53	11.57	11.62	11.66	11.70	11.75	11.79	72
74	11.72	11.76	11.81	11.85	11.90	11.94	11.99	12.03	12.07	12.12	74
76	12.04	12.08	12.13	12.17	12.22	12.26	12.31	12.35	12.40	12.45	76
78	12.35	12.40	12.45	12.49	12.54	12.59	12.63	12.68	12.73	12.77	78
80	12.67	12.72	12.77	12.81	12.86	12.91	12.96	13.01	13.05	13.10	80
82	12.99	13.04	13.09	13.13	13.18	13.23	13.28	13.33	13.38	13.43	82
84	13.30	13.35	13.40	13.45	13.50	13.55	13.60	13.66	13.71	13.76	84
86	13.62	13.67	13.72	13.77	13.83	13.88	13.93	13.98	14.03	14.08	86
88	13.94	13.99	14.04	14.09	14.15	14.20	14.25	14.31	14.36	14.41	88
90	14.25	14.31	14.36	14.42	14.47	14.52	14.58	14.63	14.68	14.74	90
92	14.57	14.63	14.68	14.74	14.79	14.85	14.90	14.96	15.01	15.07	92
94	14.89	14.94	15.00	15.06	15.11	15.17	15.22	15.28	15.34	15.39	94
96	15.20	15.26	15.32	15.38	15.43	15.49	15.55	15.61	15.66	15.72	96
98	15.52	15.58	15.64	15.70	15.75	15.81	15.87	15.93	15.99	16.05	98
100	15.84	15.90	15.96	16.02	16.08	16.14	16.20	16.26	16.32	16.38	100

Távolság	9 ^o										Távolság	
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'		
1	0:16	0:16	0:17	0:17	0:17	0:17	0:17	0:17	0:17	0:17	0:17	1
2	0:33	0:33	0:33	0:33	0:33	0:33	0:34	0:34	0:34	0:34	0:34	2
4	0:66	0:66	0:66	0:66	0:67	0:67	0:67	0:67	0:68	0:68	0:68	4
6	0:99	0:99	0:99	1:00	1:00	1:00	1:01	1:01	1:01	1:02	1:02	6
8	1:31	1:32	1:32	1:33	1:33	1:34	1:34	1:35	1:35	1:36	1:36	8
10	1:64	1:65	1:66	1:66	1:67	1:67	1:68	1:69	1:69	1:70	1:70	10
12	1:97	1:98	1:99	1:99	2:00	2:01	2:02	2:02	2:03	2:04	2:04	12
14	2:30	2:31	2:32	2:33	2:33	2:34	2:35	2:36	2:37	2:38	2:38	14
16	2:63	2:64	2:65	2:66	2:67	2:68	2:69	2:70	2:71	2:72	2:72	16
18	2:96	2:97	2:98	2:99	3:00	3:01	3:02	3:03	3:04	3:06	3:06	18
20	3:29	3:30	3:31	3:32	3:33	3:35	3:36	3:37	3:38	3:39	3:39	20
22	3:62	3:63	3:64	3:66	3:67	3:68	3:69	3:71	3:72	3:73	3:73	22
24	3:94	3:96	3:97	3:99	4:00	4:02	4:03	4:04	4:06	4:07	4:07	24
26	4:27	4:29	4:30	4:32	4:34	4:35	4:37	4:38	4:40	4:41	4:41	26
28	4:60	4:62	4:64	4:65	4:67	4:69	4:70	4:72	4:74	4:75	4:75	28
30	4:93	4:95	4:97	4:98	5:00	5:02	5:04	5:06	5:07	5:09	5:09	30
32	5:26	5:28	5:30	5:32	5:34	5:35	5:37	5:39	5:41	5:43	5:43	32
34	5:59	5:61	5:63	5:65	5:67	5:69	5:71	5:73	5:75	5:77	5:77	34
36	5:92	5:94	5:96	5:98	6:00	6:02	6:05	6:07	6:09	6:11	6:11	36
38	6:25	6:27	6:29	6:31	6:34	6:36	6:38	6:40	6:43	6:45	6:45	38
40	6:57	6:60	6:62	6:65	6:67	6:69	6:72	6:74	6:77	6:79	6:79	40
42	6:90	6:93	6:95	6:98	7:00	7:03	7:05	7:08	7:10	7:13	7:13	42
44	7:23	7:26	7:28	7:31	7:34	7:36	7:39	7:42	7:44	7:47	7:47	44
46	7:56	7:59	7:62	7:64	7:67	7:70	7:73	7:75	7:78	7:81	7:81	46
48	7:89	7:92	7:95	7:97	8:00	8:03	8:06	8:09	8:12	8:15	8:15	48
50	8:22	8:25	8:28	8:31	8:34	8:37	8:40	8:43	8:46	8:49	8:49	50
52	8:55	8:58	8:61	8:64	8:67	8:70	8:73	8:76	8:80	8:83	8:83	52
54	8:87	8:91	8:94	8:97	9:00	9:04	9:07	9:10	9:13	9:17	9:17	54
56	9:20	9:24	9:27	9:30	9:34	9:37	9:40	9:44	9:47	9:50	9:50	56
58	9:53	9:57	9:60	9:64	9:67	9:71	9:74	9:77	9:81	9:84	9:84	58
60	9:86	9:90	9:93	9:97	10:00	10:04	10:08	10:11	10:15	10:18	10:18	60
62	10:19	10:23	10:26	10:30	10:34	10:38	10:41	10:45	10:49	10:52	10:52	62
64	10:52	10:56	10:60	10:63	10:67	10:71	10:75	10:79	10:82	10:86	10:86	64
66	10:85	10:89	10:93	10:97	11:00	11:04	11:08	11:12	11:16	11:20	11:20	66
68	11:18	11:22	11:26	11:30	11:34	11:38	11:42	11:46	11:50	11:54	11:54	68
70	11:50	11:55	11:59	11:63	11:67	11:71	11:76	11:80	11:84	11:88	11:88	70
72	11:83	11:88	11:92	11:96	12:01	12:05	12:09	12:13	12:18	12:22	12:22	72
74	12:16	12:21	12:25	12:29	12:34	12:38	12:43	12:47	12:52	12:56	12:56	74
76	12:49	12:54	12:58	12:63	12:67	12:72	12:76	12:81	12:85	12:90	12:90	76
78	12:82	12:87	12:91	12:96	13:01	13:05	13:10	13:15	13:19	13:24	13:24	78
80	13:15	13:20	13:24	13:29	13:34	13:39	13:44	13:48	13:53	13:58	13:58	80
82	13:48	13:53	13:58	13:62	13:67	13:72	13:77	13:82	13:87	13:92	13:92	82
84	13:81	13:86	13:91	13:96	14:01	14:06	14:11	14:16	14:21	14:26	14:26	84
86	14:13	14:19	14:24	14:29	14:34	14:39	14:44	14:49	14:55	14:60	14:60	86
88	14:46	14:52	14:57	14:62	14:67	14:73	14:78	14:83	14:88	14:94	14:94	88
90	14:79	14:85	14:90	14:95	15:01	15:06	15:11	15:17	15:22	15:28	15:28	90
92	15:12	15:18	15:23	15:28	15:34	15:40	15:45	15:50	15:56	15:62	15:62	92
94	15:45	15:51	15:56	15:62	15:67	15:73	15:79	15:84	15:94	15:95	15:95	94
96	15:78	15:84	15:89	15:95	16:01	16:06	16:12	16:18	16:24	16:29	16:29	96
98	16:11	16:17	16:22	16:28	16:34	16:40	16:46	16:52	16:58	16:63	16:63	98
100	16:43	16:49	16:55	16:61	16:67	16:73	16:79	16:85	16:91	16:97	16:97	100

Távolság	9°										Távolság	
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'		
1	0·17	0·17	0·17	0·17	0·17	0·17	0·17	0·17	0·17	0·18	0·18	1
2	0·34	0·34	0·34	0·34	0·35	0·35	0·35	0·35	0·35	0·35	0·35	2
4	0·68	0·68	0·68	0·69	0·69	0·69	0·70	0·70	0·70	0·70	0·70	4
6	1·02	1·03	1·03	1·03	1·04	1·04	1·04	1·05	1·05	1·05	1·05	6
8	1·36	1·37	1·37	1·38	1·38	1·39	1·39	1·40	1·40	1·41	1·41	8
10	1·70	1·71	1·72	1·72	1·73	1·73	1·74	1·75	1·75	1·76	1·76	10
12	2·04	2·05	2·06	2·07	2·07	2·08	2·09	2·09	2·10	2·11	2·11	12
14	2·38	2·39	2·40	2·41	2·42	2·43	2·44	2·44	2·45	2·46	2·46	14
16	2·72	2·73	2·74	2·75	2·76	2·77	2·78	2·79	2·80	2·81	2·81	16
18	3·07	3·08	3·09	3·10	3·11	3·12	3·13	3·14	3·15	3·16	3·16	18
20	3·41	3·42	3·43	3·44	3·45	3·47	3·48	3·49	3·50	3·51	3·51	20
22	3·75	3·76	3·77	3·79	3·80	3·81	3·83	3·84	3·85	3·87	3·87	22
24	4·09	4·10	4·12	4·13	4·15	4·16	4·17	4·19	4·20	4·22	4·22	24
26	4·43	4·44	4·46	4·48	4·49	4·51	4·52	4·54	4·55	4·57	4·57	26
28	4·77	4·79	4·80	4·82	4·84	4·85	4·87	4·89	4·90	4·92	4·92	28
30	5·11	5·13	5·15	5·16	5·18	5·20	5·22	5·24	5·25	5·27	5·27	30
32	5·45	5·47	5·49	5·51	5·53	5·55	5·57	5·58	5·60	5·62	5·62	32
34	5·79	5·81	5·83	5·85	5·87	5·89	5·91	5·93	5·95	5·97	5·97	34
36	6·13	6·15	6·17	6·20	6·22	6·24	6·26	6·28	6·30	6·33	6·33	36
38	6·47	6·50	6·52	6·54	6·56	6·59	6·61	6·63	6·65	6·68	6·68	38
40	6·81	6·84	6·86	6·89	6·91	6·93	6·96	6·98	7·00	7·03	7·03	40
42	7·15	7·18	7·20	7·23	7·25	7·28	7·30	7·33	7·36	7·38	7·38	42
44	7·49	7·52	7·55	7·57	7·60	7·63	7·65	7·68	7·71	7·73	7·73	44
46	7·84	7·86	7·89	7·92	7·95	7·97	8·00	8·03	8·06	8·08	8·08	46
48	8·18	8·20	8·23	8·26	8·29	8·32	8·35	8·38	8·41	8·43	8·43	48
50	8·52	8·55	8·58	8·61	8·64	8·67	8·70	8·73	8·76	8·79	8·79	50
52	8·86	8·89	8·92	8·95	8·98	9·01	9·04	9·08	9·11	9·14	9·14	52
54	9·20	9·23	9·26	9·30	9·33	9·36	9·39	9·42	9·46	9·49	9·49	54
56	9·54	9·57	9·61	9·64	9·67	9·71	9·74	9·77	9·81	9·84	9·84	56
58	9·88	9·91	9·95	9·98	10·02	10·05	10·09	10·12	10·16	10·19	10·19	58
60	10·22	10·26	10·29	10·33	10·36	10·40	10·44	10·47	10·51	10·54	10·54	60
62	10·56	10·60	10·63	10·67	10·71	10·75	10·78	10·82	10·86	10·89	10·89	62
64	10·90	10·94	10·98	11·02	11·05	11·09	11·13	11·17	11·21	11·25	11·25	64
66	11·24	11·28	11·32	11·36	11·40	11·44	11·48	11·52	11·56	11·60	11·60	66
68	11·58	11·62	11·66	11·70	11·75	11·79	11·83	11·87	11·91	11·95	11·95	68
70	11·92	11·97	12·01	12·05	12·09	12·13	12·18	12·22	12·26	12·30	12·30	70
72	12·26	12·31	12·35	12·39	12·44	12·48	12·52	12·57	12·61	12·65	12·65	72
74	12·60	12·65	12·69	12·74	12·78	12·83	12·87	12·92	12·96	13·00	13·00	74
76	12·95	12·99	13·04	13·08	13·13	13·17	13·22	13·26	13·31	13·35	13·35	76
78	13·29	13·33	13·38	13·43	13·47	13·52	13·57	13·61	13·66	13·71	13·71	78
80	13·63	13·67	13·72	13·77	13·82	13·87	13·91	13·96	14·01	14·06	14·06	80
82	13·97	14·02	14·07	14·11	14·16	14·21	14·26	14·31	14·36	14·41	14·41	82
84	14·31	14·36	14·41	14·46	14·51	14·56	14·61	14·66	14·71	14·76	14·76	84
86	14·65	14·70	14·75	14·80	14·85	14·91	14·96	15·01	15·06	15·11	15·11	86
88	14·99	15·04	15·09	15·15	15·20	15·25	15·31	15·36	15·41	15·46	15·46	88
90	15·33	15·38	15·44	15·49	15·55	15·60	15·65	15·71	15·76	15·81	15·81	90
92	15·67	15·73	15·78	15·84	15·89	15·95	16·00	16·06	16·11	16·17	16·17	92
94	16·01	16·07	16·12	16·18	16·24	16·29	16·35	16·41	16·46	16·52	16·52	94
96	16·35	16·41	16·47	16·52	16·58	16·64	16·70	16·75	16·81	16·87	16·87	96
98	16·69	16·75	16·81	16·87	16·93	16·99	17·05	17·10	17·16	17·22	17·22	98
100	17·03	17·09	17·15	17·21	17·27	17·33	17·39	17·45	17·51	17·57	17·57	100

Távolság	10^0										Távolság	
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'		
1	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	1
2	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	2
4	0.71	0.71	0.71	0.71	0.71	0.71	0.72	0.72	0.72	0.72	0.73	4
6	1.06	1.06	1.07	1.07	1.07	1.08	1.08	1.08	1.09	1.09	1.09	6
8	1.41	1.42	1.42	1.43	1.43	1.43	1.44	1.44	1.45	1.45	1.45	8
10	1.76	1.77	1.78	1.78	1.79	1.79	1.80	1.81	1.81	1.82	1.82	10
12	2.12	2.12	2.13	2.14	2.14	2.15	2.16	2.17	2.17	2.18	2.18	12
14	2.47	2.48	2.49	2.49	2.50	2.51	2.52	2.53	2.54	2.54	2.54	14
16	2.82	2.83	2.84	2.85	2.86	2.87	2.88	2.89	2.90	2.91	2.91	16
18	3.17	3.18	3.20	3.21	3.22	3.23	3.24	3.25	3.26	3.27	3.27	18
20	3.53	3.54	3.55	3.56	3.57	3.59	3.60	3.61	3.62	3.63	3.63	20
22	3.88	3.89	3.91	3.92	3.93	3.95	3.96	3.97	3.98	4.00	4.00	22
24	4.23	4.25	4.26	4.28	4.29	4.30	4.32	4.33	4.35	4.36	4.36	24
26	4.58	4.60	4.62	4.63	4.65	4.66	4.68	4.69	4.71	4.72	4.72	26
28	4.94	4.95	4.97	4.99	5.00	5.02	5.04	5.05	5.07	5.09	5.09	28
30	5.29	5.31	5.33	5.34	5.36	5.38	5.40	5.42	5.43	5.45	5.45	30
32	5.64	5.66	5.68	5.70	5.72	5.74	5.76	5.78	5.80	5.82	5.82	32
34	6.00	6.02	6.04	6.06	6.08	6.10	6.12	6.14	6.16	6.18	6.18	34
36	6.35	6.37	6.39	6.41	6.43	6.46	6.48	6.50	6.52	6.54	6.54	36
38	6.70	6.72	6.75	6.77	6.79	6.81	6.84	6.86	6.88	6.91	6.91	38
40	7.05	7.08	7.10	7.13	7.15	7.17	7.20	7.22	7.25	7.27	7.27	40
42	7.41	7.43	7.46	7.48	7.51	7.53	7.56	7.58	7.61	7.63	7.63	42
44	7.76	7.78	7.81	7.84	7.86	7.89	7.92	7.94	7.97	8.00	8.00	44
46	8.11	8.14	8.17	8.19	8.22	8.25	8.28	8.30	8.33	8.36	8.36	46
48	8.46	8.49	8.52	8.55	8.58	8.61	8.64	8.67	8.69	8.72	8.72	48
50	8.82	8.85	8.88	8.91	8.94	8.97	9.00	9.03	9.06	9.09	9.09	50
52	9.17	9.20	9.23	9.26	9.29	9.33	9.36	9.39	9.42	9.45	9.45	52
54	9.52	9.55	9.59	9.62	9.65	9.68	9.72	9.75	9.78	9.81	9.81	54
56	9.87	9.91	9.94	9.98	10.01	10.04	10.08	10.11	10.14	10.18	10.18	56
58	10.23	10.26	10.30	10.33	10.37	10.40	10.44	10.47	10.51	10.54	10.54	58
60	10.58	10.62	10.65	10.69	10.72	10.76	10.80	10.83	10.87	10.90	10.90	60
62	10.93	10.97	11.01	11.04	11.08	11.12	11.16	11.19	11.23	11.27	11.27	62
64	11.29	11.32	11.36	11.40	11.44	11.48	11.52	11.55	11.59	11.63	11.63	64
66	11.64	11.68	11.72	11.76	11.80	11.84	11.88	11.91	11.95	11.99	11.99	66
68	11.99	12.03	12.07	12.11	12.15	12.19	12.24	12.28	12.32	12.36	12.36	68
70	12.34	12.38	12.43	12.47	12.51	12.55	12.60	12.64	12.68	12.72	12.72	70
72	12.70	12.74	12.78	12.83	12.87	12.91	12.95	13.00	13.04	13.08	13.08	72
74	13.05	13.09	13.14	13.18	13.23	13.27	13.31	13.36	13.40	13.45	13.45	74
76	13.40	13.45	13.49	13.54	13.58	13.63	13.67	13.72	13.77	13.81	13.81	76
78	13.75	13.80	13.85	13.89	13.94	13.99	14.03	14.08	14.13	14.17	14.17	78
80	14.11	14.15	14.20	14.25	14.30	14.35	14.40	14.44	14.49	14.54	14.54	80
82	14.46	14.51	14.56	14.61	14.66	14.71	14.75	14.80	14.85	14.90	14.90	82
84	14.81	14.86	14.91	14.96	15.01	15.06	15.11	15.16	15.21	15.27	15.27	84
86	15.16	15.22	15.27	15.32	15.37	15.42	15.47	15.53	15.58	15.63	15.63	86
88	15.52	15.57	15.62	15.68	15.73	15.78	15.83	15.89	15.94	15.99	15.99	88
90	15.87	15.92	15.98	16.03	16.09	16.14	16.19	16.25	16.30	16.36	16.36	90
92	16.22	16.28	16.33	16.39	16.44	16.50	16.55	16.61	16.66	16.72	16.72	92
94	16.58	16.63	16.69	16.74	16.80	16.86	16.91	16.97	17.03	17.08	17.08	94
96	16.93	16.98	17.04	17.10	17.16	17.22	17.27	17.33	17.39	17.45	17.45	96
98	17.28	17.34	17.40	17.46	17.52	17.57	17.63	17.69	17.75	17.81	17.81	98
100	17.63	17.69	17.75	17.81	17.87	17.93	17.99	18.05	18.11	18.17	18.17	100

Távolság	10 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.19	1
2	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	2
4	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.75	0.75	0.75	4
6	1.09	1.10	1.10	1.10	1.11	1.11	1.12	1.12	1.12	1.13	6
8	1.46	1.46	1.47	1.47	1.48	1.48	1.49	1.49	1.50	1.50	8
10	1.82	1.83	1.84	1.84	1.85	1.85	1.86	1.87	1.87	1.88	10
12	2.19	2.20	2.20	2.21	2.22	2.22	2.23	2.24	2.25	2.25	12
14	2.55	2.56	2.57	2.58	2.59	2.59	2.60	2.61	2.62	2.63	14
16	2.92	2.93	2.94	2.95	2.96	2.97	2.98	2.98	2.99	3.00	16
18	3.28	3.29	3.30	3.31	3.33	3.34	3.35	3.36	3.37	3.38	18
20	3.65	3.66	3.67	3.68	3.69	3.71	3.72	3.73	3.74	3.75	20
22	4.01	4.02	4.04	4.05	4.06	4.08	4.09	4.10	4.12	4.13	22
24	4.38	4.39	4.40	4.42	4.43	4.45	4.46	4.48	4.49	4.51	24
26	4.74	4.76	4.77	4.79	4.80	4.82	4.83	4.85	4.87	4.88	26
28	5.11	5.12	5.14	5.16	5.17	5.19	5.21	5.22	5.25	5.26	28
30	5.47	5.49	5.51	5.52	5.54	5.56	5.58	5.60	5.61	5.63	30
32	5.83	5.85	5.87	5.89	5.91	5.93	5.95	5.97	5.99	6.01	32
34	6.20	6.22	6.24	6.26	6.28	6.30	6.32	6.34	6.36	6.38	34
36	6.56	6.59	6.61	6.63	6.65	6.67	6.69	6.72	6.74	6.76	36
38	6.93	6.95	6.97	7.00	7.02	7.04	7.07	7.09	7.11	7.13	38
40	7.29	7.32	7.34	7.37	7.39	7.41	7.44	7.46	7.49	7.51	40
42	7.66	7.68	7.71	7.73	7.76	7.78	7.81	7.83	7.86	7.89	42
44	8.02	8.05	8.08	8.10	8.13	8.15	8.18	8.21	8.23	8.26	44
46	8.39	8.41	8.44	8.47	8.50	8.53	8.55	8.58	8.61	8.64	46
48	8.75	8.78	8.81	8.84	8.87	8.90	8.93	8.95	8.98	9.01	48
50	9.12	9.15	9.18	9.21	9.24	9.27	9.30	9.33	9.36	9.39	50
52	9.48	9.51	9.54	9.57	9.61	9.64	9.67	9.70	9.73	9.76	52
54	9.85	9.88	9.91	9.94	9.98	10.01	10.04	10.07	10.11	10.14	54
56	10.21	10.24	10.28	10.31	10.34	10.38	10.41	10.45	10.48	10.51	56
58	10.58	10.61	10.64	10.68	10.71	10.75	10.78	10.82	10.85	10.89	58
60	10.94	10.98	11.01	11.05	11.08	11.12	11.16	11.19	11.23	11.26	60
62	11.30	11.34	11.38	11.42	11.45	11.49	11.53	11.57	11.60	11.64	62
64	11.67	11.71	11.75	11.78	11.82	11.86	11.90	11.94	11.98	12.02	64
66	12.03	12.07	12.11	12.15	12.19	12.23	12.27	12.31	12.35	12.39	66
68	12.40	12.44	12.48	12.52	12.56	12.60	12.64	12.68	12.73	12.77	68
70	12.76	12.81	12.85	12.89	12.93	12.97	13.02	13.06	13.10	13.14	70
72	13.13	13.17	13.21	13.26	13.30	13.34	13.39	13.43	13.47	13.52	72
74	13.49	13.54	13.58	13.63	13.67	13.72	13.76	13.80	13.85	13.89	74
76	13.86	13.90	13.95	13.99	14.04	14.09	14.13	14.18	14.22	14.27	76
78	14.22	14.27	14.32	14.36	14.41	14.46	14.50	14.55	14.60	14.64	78
80	14.59	14.63	14.68	14.73	14.78	14.83	14.88	14.92	14.97	15.02	80
82	14.95	15.00	15.05	15.10	15.15	15.20	15.25	15.30	15.35	15.40	82
84	15.32	15.37	15.42	15.47	15.52	15.57	15.62	15.67	15.72	15.77	84
86	15.68	15.73	15.78	15.84	15.89	15.94	15.99	16.04	16.09	16.15	86
88	16.05	16.10	16.15	16.20	16.26	16.31	16.36	16.42	16.47	16.52	88
90	16.41	16.46	16.52	16.57	16.63	16.68	16.73	16.79	16.84	16.90	90
92	16.77	16.83	16.88	16.94	17.00	17.05	17.11	17.16	17.22	17.27	92
94	17.14	17.20	17.25	17.31	17.37	17.42	17.48	17.53	17.59	17.65	94
96	17.50	17.56	17.62	17.68	17.74	17.79	17.85	17.91	17.97	18.02	96
98	17.87	17.93	17.99	18.04	18.10	18.16	18.22	18.28	18.34	18.40	98
100	18.23	18.29	18.35	18.41	18.47	18.53	18.59	18.65	18.71	18.77	100

Távolság	10 ⁰										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	1
2	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	2
4	0.75	0.76	0.76	0.76	0.76	0.77	0.77	0.77	0.77	0.77	4
6	1.13	1.13	1.14	1.14	1.14	1.15	1.15	1.16	1.16	1.16	6
8	1.51	1.51	1.52	1.52	1.53	1.53	1.54	1.54	1.55	1.55	8
10	1.88	1.89	1.90	1.90	1.91	1.91	1.92	1.93	1.93	1.94	10
12	2.26	2.27	2.27	2.28	2.29	2.30	2.30	2.31	2.32	2.33	12
14	2.64	2.65	2.65	2.66	2.67	2.68	2.69	2.70	2.70	2.71	14
16	3.01	3.02	3.03	3.04	3.05	3.07	3.07	3.08	3.09	3.10	16
18	3.39	3.40	3.41	3.42	3.43	3.44	3.46	3.47	3.48	3.49	18
20	3.77	3.78	3.79	3.80	3.82	3.83	3.84	3.85	3.86	3.88	20
22	4.14	4.16	4.17	4.18	4.20	4.21	4.22	4.24	4.25	4.26	22
24	4.52	4.53	4.55	4.56	4.58	4.59	4.61	4.62	4.64	4.65	24
26	4.90	4.91	4.93	4.94	4.96	4.98	4.99	5.01	5.02	5.04	26
28	5.27	5.29	5.31	5.32	5.34	5.36	5.37	5.39	5.41	5.43	28
30	5.65	5.67	5.69	5.70	5.72	5.74	5.76	5.78	5.80	5.81	30
32	6.03	6.05	6.07	6.08	6.10	6.12	6.14	6.16	6.18	6.20	32
34	6.40	6.42	6.44	6.47	6.49	6.50	6.53	6.55	6.57	6.59	34
36	6.78	6.80	6.82	6.85	6.87	6.89	6.91	6.93	6.95	6.98	36
38	7.16	7.18	7.20	7.23	7.25	7.28	7.29	7.32	7.34	7.36	38
40	7.53	7.56	7.58	7.61	7.63	7.65	7.68	7.70	7.73	7.75	40
42	7.91	7.94	7.96	7.99	8.01	8.04	8.06	8.09	8.11	8.14	42
44	8.29	8.31	8.34	8.37	8.39	8.42	8.45	8.47	8.50	8.53	44
46	8.66	8.69	8.72	8.75	8.77	8.80	8.83	8.86	8.89	8.91	46
48	9.04	9.07	9.10	9.13	9.16	9.19	9.21	9.24	9.27	9.30	48
50	9.42	9.45	9.48	9.51	9.54	9.57	9.60	9.63	9.66	9.69	50
52	9.79	9.83	9.86	9.89	9.92	9.95	9.98	10.01	10.04	10.08	52
54	10.17	10.20	10.24	10.27	10.30	10.33	10.37	10.40	10.43	10.46	54
56	10.55	10.58	10.61	10.65	10.68	10.72	10.75	10.78	10.82	10.85	56
58	10.92	10.96	10.99	11.03	11.06	11.10	11.13	11.17	11.20	11.24	58
60	11.30	11.34	11.37	11.41	11.45	11.48	11.52	11.55	11.59	11.63	60
62	11.68	11.71	11.75	11.79	11.83	11.86	11.90	11.94	11.98	12.01	62
64	12.05	12.09	12.13	12.17	12.21	12.25	12.29	12.32	12.36	12.40	64
66	12.43	12.47	12.51	12.55	12.59	12.63	12.67	12.71	12.75	12.79	66
68	12.81	12.85	12.89	12.93	12.97	13.01	13.05	13.09	13.14	13.18	68
70	13.18	13.23	13.27	13.31	13.35	13.40	13.44	13.48	13.52	13.56	70
72	13.56	13.60	13.65	13.69	13.73	13.78	13.82	13.86	13.91	13.95	72
74	13.94	13.98	14.03	14.07	14.12	14.16	14.21	14.25	14.29	14.34	74
76	14.31	14.36	14.41	14.45	14.50	14.54	14.59	14.64	14.68	14.73	76
78	14.69	14.74	14.78	14.83	14.88	14.93	14.97	15.02	15.07	15.11	78
80	15.07	15.12	15.16	15.21	15.26	15.31	15.36	15.41	15.45	15.50	80
82	15.44	15.49	15.54	15.59	15.64	15.69	15.74	15.79	15.84	15.89	82
84	15.82	15.87	15.92	15.97	16.02	16.07	16.12	16.18	16.23	16.28	84
86	16.20	16.25	16.30	16.35	16.41	16.46	16.51	16.56	16.61	16.66	86
88	16.57	16.63	16.68	16.73	16.79	16.84	16.89	16.95	17.00	17.05	88
90	16.95	17.00	17.06	17.11	17.17	17.22	17.28	17.33	17.39	17.44	90
92	17.33	17.38	17.44	17.49	17.55	17.61	17.66	17.72	17.77	17.83	92
94	17.70	17.76	17.82	17.87	16.93	17.99	18.04	18.10	18.16	18.21	94
96	18.08	18.14	18.20	18.25	18.31	18.37	18.43	18.49	18.54	18.60	96
98	18.46	18.52	18.58	18.63	18.69	18.75	18.81	18.87	18.93	18.99	98
100	18.83	18.89	18.95	19.01	19.08	19.14	19.20	19.26	19.32	19.38	100

Távolság	11 ⁰										Távolság	
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'		
1	0:19	0:19	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:20	1
2	0:39	0:39	0:39	0:39	0:39	0:39	0:40	0:40	0:40	0:40	0:40	2
4	0:78	0:78	0:78	0:78	0:79	0:79	0:79	0:79	0:80	0:80	0:80	4
6	1:17	1:17	1:17	1:18	1:18	1:18	1:19	1:19	1:20	1:20	1:20	6
8	1:56	1:56	1:56	1:57	1:57	1:58	1:58	1:59	1:59	1:60	1:60	8
10	1:94	1:95	1:96	1:96	1:97	1:97	1:98	1:99	1:99	2:00	2:00	10
12	2:33	2:34	2:35	2:35	2:36	2:37	2:38	2:38	2:39	2:40	2:40	12
14	2:72	2:73	2:74	2:75	2:76	2:76	2:77	2:78	2:79	2:80	2:80	14
16	3:11	3:12	3:13	3:14	3:15	3:16	3:17	3:18	3:19	3:20	3:20	16
18	3:50	3:51	3:52	3:53	3:54	3:55	3:56	3:57	3:59	3:60	3:60	18
20	3:89	3:90	3:91	3:92	3:94	3:95	3:96	3:97	3:98	4:00	4:00	20
22	4:28	4:29	4:30	4:32	4:33	4:34	4:36	4:37	4:38	4:40	4:40	22
24	4:67	4:68	4:69	4:71	4:72	4:74	4:75	4:77	4:78	4:80	4:80	24
26	5:05	5:07	5:08	5:10	5:12	5:13	5:15	5:16	5:18	5:20	5:20	26
28	5:44	5:46	5:48	5:49	5:51	5:53	5:54	5:56	5:58	5:59	5:59	28
30	5:83	5:85	5:87	5:89	5:90	5:92	5:94	5:96	5:98	5:99	5:99	30
32	6:22	6:24	6:26	6:28	6:30	6:32	6:34	6:36	6:37	6:39	6:39	32
34	6:61	6:63	6:65	6:67	6:69	6:71	6:73	6:75	6:77	6:79	6:79	34
36	7:00	7:02	7:04	7:06	7:08	7:11	7:13	7:15	7:17	7:19	7:19	36
38	7:39	7:41	7:43	7:46	7:48	7:50	7:52	7:55	7:57	7:59	7:59	38
40	7:78	7:80	7:82	7:85	7:87	7:90	7:92	7:94	7:97	7:99	7:99	40
42	8:16	8:19	8:21	8:24	8:27	8:29	8:32	8:34	8:37	8:39	8:39	42
44	8:55	8:58	8:61	8:63	8:66	8:69	8:71	8:74	8:77	8:79	8:79	44
46	8:94	8:97	9:00	9:02	9:05	9:08	9:11	9:14	9:16	9:19	9:19	46
48	9:33	9:36	9:39	9:42	9:45	9:48	9:50	9:53	9:56	9:59	9:59	48
50	9:72	9:75	9:78	9:81	9:84	9:87	9:90	9:93	9:96	9:99	9:99	50
52	10:11	10:14	10:17	10:20	10:23	10:26	10:30	10:33	10:36	10:39	10:39	52
54	10:50	10:53	10:56	10:59	10:63	10:66	10:69	10:72	10:76	10:79	10:79	54
56	10:89	10:92	10:95	10:99	11:02	11:05	11:09	11:12	11:16	11:19	11:19	56
58	11:27	11:31	11:34	11:38	11:41	11:45	11:48	11:52	11:55	11:59	11:59	58
60	11:66	11:70	11:73	11:77	11:81	11:84	11:88	11:92	11:95	11:99	11:99	60
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66	12:83	12:87	12:91	12:95	12:99	13:03	13:07	13:11	13:15	13:19	13:19	66
68	13:22	13:26	13:30	13:34	13:38	13:42	13:46	13:51	13:55	13:59	13:59	68
70	13:61	13:65	13:69	13:73	13:78	13:82	13:86	13:90	13:94	13:99	13:99	70
72	14:00	14:04	14:08	14:13	14:17	14:21	14:26	14:30	14:34	14:39	14:39	72
74	14:38	14:43	14:47	14:52	14:56	14:61	14:65	14:70	14:74	14:79	14:79	74
76	14:77	14:82	14:86	14:91	14:96	15:00	15:05	15:09	15:14	15:19	15:19	76
78	15:16	15:21	15:26	15:30	15:35	15:40	15:44	15:49	15:54	15:59	15:59	78
80	15:55	15:60	15:65	15:70	15:74	15:79	15:84	15:89	15:94	15:98	15:98	80
82	15:94	15:99	16:04	16:09	16:14	16:19	16:24	16:29	16:34	16:39	16:39	82
84	16:33	16:38	16:43	16:48	16:53	16:58	16:63	16:68	16:73	16:78	16:78	84
86	16:72	16:77	16:82	16:87	16:92	16:98	17:03	17:08	17:13	17:18	17:18	86
88	17:11	17:16	17:21	17:26	17:32	17:37	17:42	17:48	17:53	17:58	17:58	88
90	17:49	17:55	17:60	17:66	17:71	17:77	17:82	17:87	17:93	17:98	17:98	90
92	17:88	17:94	17:99	18:05	18:10	18:16	18:22	18:27	18:33	18:38	18:38	92
94	18:27	18:33	18:38	18:44	18:50	18:56	18:61	18:67	18:73	18:78	18:78	94
96	18:66	18:72	18:78	18:83	18:89	18:95	19:01	19:07	19:12	19:18	19:18	96
98	19:05	19:11	19:17	19:23	19:29	19:35	19:40	19:46	19:52	19:58	19:58	98
100	19:44	19:50	19:56	19:62	19:68	19:74	19:80	19:86	19:92	19:98	19:98	100

Távolság	11 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:20	0:21	0:21	1
2	0:40	0:40	0:40	0:40	0:41	0:41	0:41	0:41	0:41	0:41	2
4	0:80	0:80	0:81	0:81	0:81	0:81	0:82	0:82	0:82	0:82	4
6	1:20	1:21	1:21	1:21	1:22	1:22	1:22	1:23	1:23	1:24	6
8	1:60	1:61	1:61	1:62	1:62	1:63	1:63	1:64	1:64	1:65	8
10	2:00	2:01	2:02	2:02	2:03	2:03	2:04	2:05	2:05	2:06	10
12	2:41	2:41	2:42	2:43	2:43	2:44	2:45	2:46	2:47	2:47	12
14	2:81	2:81	2:82	2:83	2:84	2:85	2:86	2:87	2:87	2:88	14
16	3:21	3:22	3:23	3:24	3:25	3:26	3:26	3:27	3:28	3:29	16
18	3:61	3:62	3:63	3:64	3:65	3:66	3:67	3:68	3:69	3:71	18
20	4:01	4:02	4:03	4:04	4:06	4:07	4:08	4:09	4:11	4:12	20
22	4:41	4:42	4:44	4:45	4:46	4:48	4:49	4:50	4:52	4:53	22
24	4:81	4:82	4:84	4:85	4:87	4:88	4:90	4:91	4:93	4:94	24
26	5:21	5:23	5:24	5:26	5:27	5:29	5:31	5:32	5:34	5:35	26
28	5:61	5:63	5:65	5:66	5:68	5:70	5:71	5:73	5:75	5:76	28
30	6:01	6:03	6:05	6:07	6:09	6:10	6:12	6:14	6:16	6:18	30
32	6:41	6:43	6:45	6:47	6:49	6:51	6:53	6:55	6:57	6:59	32
34	6:81	6:83	6:86	6:88	6:90	6:92	6:94	6:96	6:98	7:00	34
36	7:22	7:24	7:26	7:28	7:30	7:32	7:35	7:37	7:39	7:41	36
38	7:62	7:64	7:66	7:69	7:71	7:73	7:75	7:78	7:80	7:82	38
40	8:02	8:04	8:07	8:09	8:11	8:14	8:16	8:19	8:21	8:23	40
42	8:42	8:44	8:47	8:49	8:52	8:54	8:57	8:60	8:62	8:65	42
44	8:82	8:85	8:87	8:90	8:92	8:95	8:98	9:00	9:03	9:06	44
46	9:22	9:25	9:28	9:30	9:33	9:36	9:39	9:41	9:44	9:47	46
48	9:62	9:65	9:68	9:71	9:74	9:77	9:79	9:82	9:85	9:88	48
50	10:02	10:05	10:08	10:11	10:14	10:17	10:20	10:23	10:26	10:29	50
52	10:42	10:45	10:49	10:52	10:55	10:58	10:61	10:64	10:67	10:71	52
54	10:82	10:86	10:89	10:92	10:95	10:99	11:02	11:05	11:08	11:12	54
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34	8:90	8:92	8:94	8:96	8:98	9:00	9:03	9:05	9:07	9:09	34
36	9:42	9:44	9:47	9:49	9:51	9:53	9:56	9:58	9:60	9:62	36
38	9:95	9:97	9:99	10:02	10:04	10:06	10:09	10:11	10:13	10:16	38
40	10:47	10:49	10:52	10:54	10:57	10:59	10:62	10:64	10:67	10:69	40
42	10:99	11:02	11:04	11:07	11:10	11:12	11:15	11:18	11:20	11:23	42
44	11:52	11:54	11:57	11:60	11:63	11:65	11:68	11:71	11:73	11:76	44
46	12:04	12:07	12:10	12:12	12:15	12:18	12:21	12:24	12:27	12:30	46
48	12:56	12:59	12:62	12:65	12:68	12:71	12:74	12:77	12:80	12:83	48
50	13:09	13:12	13:15	13:18	13:21	13:24	13:27	13:30	13:33	13:37	50
52	13:61	13:64	13:67	13:71	13:74	13:77	13:80	13:84	13:87	13:90	52
54	14:13	14:17	14:20	14:23	14:27	14:30	14:33	14:37	14:40	14:44	54
56	14:66	14:69	14:73	14:76	14:80	14:83	14:87	14:90	14:94	14:97	56
58	15:18	15:22	15:25	15:29	15:32	15:36	15:40	15:43	15:47	15:50	58
60	15:70	15:74	15:78	15:81	15:85	15:89	15:93	15:96	16:00	16:04	60
62	16:23	16:27	16:30	16:34	16:38	16:42	16:46	16:50	16:54	16:57	62
64	16:75	16:79	16:83	16:87	16:91	16:95	16:99	17:03	17:07	17:11	64
66	17:27	17:31	17:36	17:40	17:44	17:48	17:52	17:56	17:60	17:64	66
68	17:80	17:84	17:88	17:92	17:97	18:01	18:05	18:09	18:14	18:18	68
70	18:32	18:36	18:41	18:45	18:49	18:54	18:58	18:63	18:67	18:71	70
72	18:84	18:89	18:93	18:98	19:02	19:07	19:11	19:16	19:20	19:25	72
74	19:37	19:41	19:46	19:50	19:55	19:60	19:64	19:69	19:74	19:78	74
76	19:89	19:94	19:98	20:03	20:08	20:13	20:17	20:22	20:27	20:32	76
78	20:41	20:46	20:51	20:56	20:61	20:66	20:71	20:75	20:80	20:85	78
80	20:94	20:99	21:04	21:09	21:14	21:19	21:24	21:29	21:34	21:39	80
82	21:46	21:51	21:56	21:61	21:67	21:72	21:77	21:82	21:87	21:90	82
84	21:98	22:04	22:09	22:14	22:19	22:25	22:30	22:35	22:40	22:45	84
86	22:51	22:56	22:61	22:67	22:72	22:78	22:83	22:88	22:94	22:99	86
88	23:03	23:09	23:14	23:20	23:25	23:31	23:36	23:41	23:47	23:52	88
90	23:55	23:61	23:67	23:72	23:78	23:83	23:89	23:95	24:00	24:06	90
92	24:08	24:14	24:19	24:25	24:31	24:36	24:42	24:48	24:54	24:59	92
94	24:60	24:66	24:72	24:78	24:84	24:89	24:95	25:01	25:07	25:13	94
96	25:13	25:18	25:24	25:30	25:36	25:42	25:48	25:54	25:60	25:66	96
98	25:65	25:71	25:77	25:83	25:89	25:95	26:01	26:08	26:14	26:20	98
100	26:17	26:23	26:30	26:36	26:42	26:48	26:54	26:61	26:67	26:73	100

Távolság	15°										Távolság	
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'		
1	0·27	0·27	0·27	0·27	0·27	0·27	0·27	0·27	0·27	0·27	0·27	1
2	0·54	0·54	0·54	0·54	0·54	0·54	0·54	0·54	0·54	0·55	0·55	2
4	1·07	1·07	1·08	1·08	1·08	1·08	1·09	1·09	1·09	1·09	1·09	4
6	1·61	1·61	1·62	1·62	1·62	1·63	1·63	1·63	1·64	1·64	1·64	6
8	2·14	2·15	2·15	2·16	2·16	2·17	2·17	2·18	2·18	2·19	2·19	8
10	2·68	2·69	2·69	2·70	2·70	2·71	2·72	2·72	2·73	2·74	2·74	10
12	3·22	3·22	3·23	3·24	3·25	3·25	3·26	3·27	3·28	3·28	3·28	12
14	3·75	3·76	3·77	3·78	3·79	3·79	3·80	3·81	3·82	3·83	3·83	14
16	4·29	4·30	4·31	4·32	4·33	4·34	4·35	4·36	4·37	4·38	4·38	16
18	4·82	4·83	4·85	4·86	4·87	4·88	4·89	4·90	4·91	4·92	4·92	18
20	5·36	5·37	5·38	5·40	5·41	5·42	5·43	5·45	5·46	5·47	5·47	20
22	5·89	5·91	5·92	5·94	5·95	5·96	5·98	5·99	6·00	6·02	6·02	22
24	6·43	6·45	6·46	6·48	6·49	6·51	6·52	6·54	6·55	6·57	6·57	24
26	6·97	6·98	7·00	7·02	7·03	7·05	7·06	7·08	7·10	7·11	7·11	26
28	7·50	7·52	7·54	7·55	7·57	7·59	7·61	7·62	7·64	7·66	7·66	28
30	8·04	8·06	8·08	8·09	8·11	8·13	8·15	8·17	8·19	8·21	8·21	30
32	8·57	8·59	8·61	8·63	8·65	8·67	8·69	8·71	8·73	8·75	8·75	32
34	9·11	9·13	9·15	9·17	9·19	9·22	9·24	9·26	9·28	9·30	9·30	34
36	9·65	9·67	9·69	9·71	9·74	9·76	9·78	9·80	9·83	9·85	9·85	36
38	10·18	10·21	10·23	10·25	10·28	10·30	10·32	10·35	10·37	10·40	10·40	38
40	10·72	10·74	10·77	10·79	10·82	10·84	10·87	10·89	10·92	10·94	10·94	40
42	11·25	11·28	11·31	11·33	11·36	11·38	11·41	11·44	11·46	11·49	11·49	42
44	11·79	11·82	11·84	11·87	11·90	11·93	11·95	11·98	12·01	12·04	12·04	44
46	12·33	12·35	12·38	12·41	12·44	12·47	12·50	12·53	12·56	12·58	12·58	46
48	12·86	12·89	12·92	12·95	12·98	13·01	13·04	13·07	13·10	13·13	13·13	48
50	13·40	13·43	13·46	13·49	13·52	13·55	13·58	13·62	13·65	13·68	13·68	50
52	13·93	13·97	14·00	14·03	14·06	14·10	14·13	14·16	14·19	14·23	14·23	52
54	14·47	14·50	14·54	14·57	14·60	14·64	14·67	14·71	14·74	14·77	14·77	54
56	15·01	15·04	15·08	15·11	15·14	15·18	15·21	15·25	15·28	15·32	15·32	56
58	15·54	15·58	15·61	15·65	15·69	15·72	15·76	15·79	15·83	15·87	15·87	58
60	16·08	16·11	16·15	16·19	16·23	16·26	16·30	16·34	16·38	16·41	16·41	60
62	16·61	16·65	16·69	16·73	16·77	16·81	16·84	16·88	16·92	16·96	16·96	62
64	17·15	17·19	17·23	17·27	17·31	17·35	17·39	17·43	17·47	17·51	17·51	64
66	17·68	17·73	17·77	17·81	17·85	17·89	17·93	17·97	18·01	18·06	18·06	66
68	18·22	18·26	18·31	18·35	18·39	18·43	18·47	18·51	18·56	18·60	18·60	68
70	18·76	18·80	18·84	18·89	18·93	18·97	19·02	19·06	19·11	19·15	19·15	70
72	19·29	19·34	19·38	19·43	19·47	19·52	19·56	19·61	19·65	19·70	19·70	72
74	19·83	19·87	19·92	19·97	20·01	20·06	20·10	20·15	20·20	20·24	20·24	74
76	20·36	20·41	20·46	20·51	20·55	20·60	20·65	20·70	20·74	20·79	20·79	76
78	20·90	20·95	21·00	21·05	21·09	21·14	21·19	21·24	21·29	21·34	21·34	78
80	21·44	21·49	21·54	21·59	21·64	21·69	21·74	21·79	21·84	21·89	21·89	80
82	21·97	22·02	22·07	22·13	22·18	22·23	22·28	22·33	22·38	22·43	22·43	82
84	22·51	22·56	22·61	22·66	22·72	22·77	22·82	22·87	22·93	22·98	22·98	84
86	23·04	23·10	23·15	23·20	23·26	23·31	23·37	23·42	23·47	23·53	23·53	86
88	23·58	23·63	23·69	23·74	23·80	23·85	23·91	23·96	24·02	24·07	24·07	88
90	24·12	24·17	24·23	24·28	24·34	24·40	24·45	24·51	24·56	24·62	24·62	90
92	24·65	24·71	24·77	24·82	24·88	24·94	25·00	25·05	25·11	25·17	25·17	92
94	25·19	25·25	25·30	25·36	25·42	25·48	25·54	25·60	25·66	25·72	25·72	94
96	25·72	25·78	25·84	25·90	25·96	26·02	26·08	26·14	26·20	26·26	26·26	96
98	26·26	26·32	26·38	26·44	26·50	26·56	26·63	26·69	26·75	26·81	26·81	98
100	26·79	26·86	26·92	26·98	27·04	27·11	27·17	27·23	27·29	27·36	27·36	100

Távolság	15°										Távolság	
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'		
1	0·27	0·27	0·28	0·28	0·28	0·28	0·28	0·28	0·28	0·28	0·28	1
2	0·55	0·55	0·55	0·55	0·55	0·55	0·56	0·56	0·56	0·56	0·56	2
4	1·10	1·10	1·10	1·10	1·11	1·11	1·11	1·11	1·12	1·12	1·12	4
6	1·65	1·65	1·65	1·66	1·66	1·66	1·67	1·67	1·68	1·68	1·68	6
8	2·19	2·20	2·20	2·21	2·21	2·22	2·22	2·23	2·23	2·24	2·24	8
10	2·74	2·75	2·75	2·76	2·77	2·77	2·78	2·79	2·79	2·80	2·80	10
12	3·29	3·30	3·31	3·31	3·32	3·33	3·34	3·34	3·35	3·36	3·36	12
14	3·84	3·85	3·86	3·86	3·87	3·88	3·89	3·90	3·91	3·92	3·92	14
16	4·39	4·40	4·41	4·42	4·43	4·44	4·45	4·46	4·47	4·48	4·48	16
18	4·94	4·95	4·96	4·97	4·98	4·99	5·00	5·01	5·03	5·04	5·04	18
20	5·48	5·50	5·51	5·52	5·53	5·55	5·56	5·57	5·58	5·60	5·60	20
22	6·03	6·05	6·06	6·07	6·09	6·10	6·11	6·13	6·14	6·16	6·16	22
24	6·58	6·60	6·61	6·63	6·64	6·66	6·67	6·69	6·70	6·72	6·72	24
26	7·13	7·15	7·16	7·18	7·19	7·21	7·23	7·24	7·26	7·28	7·28	26
28	7·68	7·69	7·71	7·73	7·75	7·76	7·78	7·80	7·82	7·84	7·84	28
30	8·23	8·24	8·26	8·28	8·30	8·32	8·34	8·36	8·38	8·39	8·39	30
32	8·77	8·79	8·81	8·83	8·85	8·87	8·89	8·91	8·93	8·95	8·95	32
34	9·32	9·34	9·37	9·39	9·41	9·43	9·45	9·47	9·49	9·51	9·51	34
36	9·87	9·89	9·92	9·94	9·96	9·98	10·01	10·03	10·05	10·07	10·07	36
38	10·42	10·44	10·47	10·49	10·51	10·54	10·56	10·59	10·61	10·63	10·63	38
40	10·97	10·99	11·02	11·04	11·07	11·09	11·12	11·14	11·17	11·19	11·19	40
42	11·52	11·54	11·57	11·59	11·62	11·65	11·67	11·70	11·73	11·75	11·75	42
44	12·06	12·09	12·12	12·15	12·17	12·20	12·23	12·26	12·29	12·31	12·31	44
46	12·61	12·64	12·67	12·70	12·73	12·76	12·79	12·81	12·84	12·87	12·87	46
48	13·16	13·19	13·22	13·25	13·28	13·31	13·34	13·37	13·40	13·43	13·43	48
50	13·71	13·74	13·77	13·80	13·83	13·87	13·90	13·93	13·96	13·99	13·99	50
52	14·26	14·29	14·32	14·36	14·39	14·42	14·45	14·49	14·52	14·55	14·55	52
54	14·81	14·84	14·87	14·91	14·94	14·98	15·01	15·04	15·08	15·11	15·11	54
56	15·35	15·39	15·43	15·46	15·49	15·53	15·57	15·60	15·64	15·67	15·67	56
58	15·90	15·94	15·98	16·01	16·05	16·08	16·12	16·16	16·19	16·23	16·23	58
60	16·45	16·49	16·53	16·56	16·60	16·64	16·68	16·71	16·75	16·79	16·79	60
62	17·00	17·04	17·08	17·12	17·15	17·19	17·23	17·27	17·31	17·35	17·35	62
64	17·55	17·59	17·63	17·67	17·71	17·75	17·79	17·83	17·87	17·91	17·91	64
66	18·10	18·14	18·18	18·22	18·26	18·30	18·34	18·39	18·43	18·47	18·47	66
68	18·64	18·69	18·73	18·77	18·81	18·86	18·90	18·94	18·99	19·03	19·03	68
70	19·19	19·24	19·28	19·32	19·37	19·41	19·46	19·50	19·54	19·59	19·59	70
72	19·74	19·79	19·83	19·88	19·92	19·97	20·01	20·06	20·10	20·15	20·15	72
74	20·29	20·34	20·38	20·43	20·48	20·52	20·57	20·61	20·66	20·71	20·71	74
76	20·84	20·89	20·93	20·98	21·03	21·08	21·12	21·17	21·21	21·27	21·27	76
78	21·39	21·44	21·49	21·53	21·58	21·63	21·68	21·73	21·78	21·83	21·83	78
80	21·94	21·99	22·04	22·09	22·14	22·19	22·24	22·29	22·34	22·39	22·39	80
82	22·48	22·54	22·59	22·64	22·69	22·74	22·79	22·84	22·90	22·95	22·95	82
84	23·03	23·08	23·14	23·19	23·24	23·29	23·35	23·40	23·45	23·51	23·51	84
86	23·58	23·63	23·69	23·74	23·80	23·85	23·90	23·96	24·01	24·07	24·07	86
88	24·13	24·18	24·24	24·29	24·35	24·40	24·46	24·51	24·57	24·63	24·63	88
90	24·68	24·73	24·79	24·85	24·90	24·96	25·02	25·07	25·13	25·18	25·18	90
92	25·23	25·28	25·34	25·40	25·46	25·51	25·57	25·63	25·69	25·74	25·74	92
94	25·77	25·83	25·89	25·95	26·01	26·07	26·13	26·19	26·25	26·30	26·30	94
96	26·32	26·38	26·44	26·50	26·56	26·62	26·68	26·74	26·80	26·86	26·86	96
98	26·87	26·93	26·99	27·05	27·12	27·18	27·24	27·30	27·36	27·42	27·42	98
100	27·42	27·48	27·54	27·61	27·67	27·73	27·79	27·86	27·92	27·98	27·98	100

Távolság	15°										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0:28	0:28	0:28	0:28	0:28	0:28	0:28	0:28	0:29	0:29	1
2	0:56	0:56	0:56	0:56	0:57	0:57	0:57	0:57	0:57	0:57	2
4	1:12	1:12	1:13	1:13	1:13	1:13	1:14	1:14	1:14	1:14	4
6	1:68	1:69	1:69	1:69	1:70	1:70	1:71	1:71	1:71	1:72	6
8	2:24	2:25	2:25	2:26	2:26	2:27	2:27	2:28	2:28	2:29	8
10	2:80	2:81	2:82	2:82	2:83	2:84	2:84	2:85	2:85	2:86	10
12	3:37	3:37	3:38	3:39	3:40	3:40	3:41	3:42	3:43	3:43	12
14	3:93	3:94	3:94	3:95	3:96	3:97	3:98	3:99	4:00	4:01	14
16	4:49	4:50	4:51	4:52	4:53	4:54	4:55	4:56	4:57	4:58	16
18	5:05	5:06	5:07	5:08	5:09	5:10	5:12	5:13	5:14	5:15	18
20	5:61	5:62	5:63	5:65	5:66	5:67	5:68	5:70	5:71	5:72	20
22	6:17	6:18	6:20	6:21	6:23	6:24	6:25	6:27	6:28	6:29	22
24	6:73	6:75	6:76	6:78	6:79	6:81	6:82	6:84	6:85	6:87	24
26	7:29	7:31	7:32	7:34	7:36	7:37	7:39	7:41	7:42	7:44	26
28	7:85	7:87	7:89	7:91	7:92	7:94	7:96	7:98	7:99	8:01	28
30	8:41	8:43	8:45	8:47	8:49	8:51	8:53	8:55	8:56	8:58	30
32	8:97	8:99	9:01	9:03	9:05	9:08	9:09	9:12	9:14	9:16	32
34	9:54	9:56	9:58	9:60	9:62	9:64	9:66	9:69	9:71	9:73	34
36	10:10	10:12	10:14	10:16	10:19	10:21	10:23	10:25	10:28	10:30	36
38	10:66	10:68	10:70	10:73	10:75	10:78	10:80	10:82	10:85	10:87	38
40	11:22	11:24	11:27	11:29	11:32	11:34	11:37	11:39	11:42	11:44	40
42	11:78	11:81	11:83	11:86	11:88	11:91	11:94	11:96	11:99	12:02	42
44	12:34	12:37	12:40	12:42	12:45	12:48	12:51	12:53	12:56	12:59	44
46	12:90	12:93	12:96	12:99	13:02	13:05	13:07	13:10	13:13	13:16	46
48	13:46	13:49	13:52	13:55	13:58	13:61	13:64	13:67	13:70	13:73	48
50	14:02	14:05	14:09	14:12	14:15	14:18	14:21	14:24	14:27	14:31	50
52	14:58	14:62	14:65	14:68	14:71	14:75	14:78	14:81	14:84	14:88	52
54	15:14	15:18	15:21	15:25	15:28	15:31	15:35	15:38	15:42	15:45	54
56	15:71	15:74	15:78	15:81	15:85	15:88	15:92	15:95	15:99	16:02	56
58	16:27	16:30	16:34	16:38	16:41	16:45	16:48	16:52	16:56	16:59	58
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62	17:39	17:43	17:47	17:51	17:54	17:58	17:62	17:66	17:70	17:74	62
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Távolság	17 ⁰										Távolság	
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Távolság	17 ⁰										Távolság
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82	28:24	28:29	28:34	28:39	28:45	28:50	28:55	28:61	28:66	28:72	82
84	28:92	28:98	29:03	29:09	29:14	29:20	29:25	29:31	29:36	29:42	84
86	29:61	29:67	29:72	29:78	29:84	29:89	29:95	30:00	30:06	30:12	86
88	30:30	30:36	30:42	30:47	30:53	30:59	30:64	30:70	30:76	30:82	88
90	30:99	31:05	31:11	31:17	31:22	31:28	31:34	31:40	31:46	31:52	90
92	31:68	31:73	31:80	31:86	31:92	31:98	32:04	32:10	32:16	32:22	92
94	32:37	32:42	32:49	32:55	32:61	32:67	32:73	32:80	32:86	32:92	94
96	33:06	33:11	33:18	33:24	33:31	33:37	33:43	33:49	33:56	33:62	96
98	33:74	33:80	33:87	33:94	34:00	34:06	34:13	34:19	34:25	34:32	98
100	34:43	34:50	34:56	34:63	34:69	34:76	34:82	34:89	34:95	35:02	100

Távolság	19°										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
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4	1:40	1:41	1:41	1:41	1:41	1:42	1:42	1:42	1:42	1:43	4
6	2:11	2:11	2:11	2:12	2:12	2:12	2:13	2:13	2:14	2:14	6
8	2:81	2:81	2:82	2:82	2:83	2:83	2:84	2:84	2:85	2:85	8
10	3:51	3:51	3:52	3:53	3:53	3:54	3:55	3:55	3:56	3:57	10
12	4:21	4:22	4:23	4:23	4:24	4:25	4:26	4:27	4:27	4:28	12
14	4:91	4:92	4:93	4:94	4:95	4:96	4:97	4:98	4:99	4:99	14
16	5:61	5:62	5:63	5:64	5:66	5:67	5:68	5:69	5:70	5:71	16
18	6:32	6:33	6:33	6:35	6:36	6:37	6:39	6:40	6:41	6:42	18
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24	8:42	8:44	8:45	8:47	8:48	8:50	8:51	8:53	8:55	8:56	24
26	9:12	9:14	9:16	9:17	9:19	9:21	9:22	9:24	9:26	9:28	26
28	9:82	9:84	9:86	9:88	9:90	9:92	9:93	9:95	9:97	9:99	28
30	10:53	10:54	10:56	10:58	10:60	10:62	10:64	10:66	10:68	10:70	30
32	11:23	11:25	11:27	11:29	11:31	11:33	11:35	11:37	11:39	11:42	32
34	11:93	11:95	11:97	12:00	12:02	12:04	12:06	12:08	12:11	12:13	34
36	12:63	12:65	12:68	12:70	12:72	12:75	12:77	12:80	12:82	12:84	36
38	13:33	13:36	13:38	13:41	13:43	13:46	13:48	13:51	13:53	13:56	38
40	14:03	14:06	14:09	14:11	14:14	14:16	14:19	14:22	14:24	14:27	40
42	14:74	14:76	14:79	14:82	14:85	14:87	14:90	14:93	14:96	14:98	42
44	15:44	15:47	15:50	15:52	15:55	15:58	15:61	15:64	15:67	15:70	44
46	16:14	16:17	16:20	16:23	16:26	16:29	16:32	16:35	16:38	16:41	46
48	16:84	16:87	16:90	16:93	16:97	17:00	17:03	17:06	17:09	17:12	48
50	17:54	17:58	17:61	17:64	17:67	17:71	17:74	17:77	17:80	17:84	50
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56	19:65	19:68	19:72	19:76	19:79	19:83	19:87	19:90	19:94	19:98	56
58	20:35	20:39	20:43	20:46	20:50	20:54	20:58	20:61	20:65	20:69	58
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68	23:86	23:90	23:95	23:99	24:04	24:08	24:12	24:17	24:21	24:26	68
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72	25:26	25:31	25:36	25:40	25:45	25:50	25:54	25:59	25:64	25:69	72
74	25:96	26:01	26:06	26:11	26:16	26:20	26:25	26:30	26:35	26:40	74
76	26:66	26:71	26:76	26:81	26:86	26:91	26:96	27:01	27:06	27:11	76
78	27:37	27:42	27:47	27:52	27:57	27:62	27:67	27:72	27:77	27:83	78
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88	30:87	30:93	30:99	31:05	31:10	31:16	31:22	31:28	31:34	31:39	88
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96	33:68	33:74	33:81	33:87	33:93	33:99	34:06	34:12	34:18	34:25	96
98	34:38	34:45	34:51	34:58	34:64	34:70	34:77	34:83	34:90	34:96	98
100	35:08	35:15	35:22	35:28	35:35	35:41	35:48	35:54	35:61	35:67	100

Távolság	19°										Távolság	
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4	1:43	1:43	1:43	1:44	1:44	1:44	1:45	1:45	1:45	1:45	1:45	4
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8	2:86	2:86	2:87	2:87	2:88	2:89	2:89	2:90	2:90	2:91	2:91	8
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36	12:87	12:89	12:91	12:94	12:96	12:98	13:01	13:03	13:06	13:08	13:08	36
38	13:58	13:61	13:63	13:66	13:68	13:71	13:73	13:76	13:78	13:81	13:81	38
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52	18:58	18:62	18:65	18:69	18:72	18:76	18:79	18:82	18:86	18:89	18:89	52
54	19:30	19:33	19:37	19:41	19:44	19:48	19:51	19:55	19:58	19:62	19:62	54
56	20:01	20:05	20:09	20:12	20:16	20:20	20:24	20:27	20:31	20:35	20:35	56
58	20:73	20:77	20:81	20:84	20:88	20:92	20:96	21:00	21:03	21:07	21:07	58
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62	22:16	22:20	22:24	22:28	22:32	22:36	22:40	22:44	22:48	22:53	22:53	62
64	22:87	22:92	22:96	23:00	23:04	23:08	23:13	23:17	23:21	23:25	23:25	64
66	23:59	23:63	23:67	23:72	23:76	23:80	23:85	23:89	23:93	23:98	23:98	66
68	24:30	24:35	24:39	24:44	24:48	24:53	24:57	24:62	24:66	24:71	24:71	68
70	25:02	25:06	25:11	25:16	25:20	25:25	25:29	25:34	25:39	25:43	25:43	70
72	25:73	25:80	25:83	25:87	25:92	25:97	26:02	26:06	26:11	26:16	26:16	72
74	26:45	26:50	26:54	26:59	26:64	26:69	26:74	26:79	26:84	26:88	26:88	74
76	27:16	27:21	27:26	27:31	27:36	27:41	27:46	27:51	27:56	27:61	27:61	76
78	27:88	27:93	27:98	28:03	28:08	28:13	28:18	28:24	28:29	28:34	28:34	78
80	28:59	28:64	28:70	28:75	28:80	28:85	28:91	28:96	29:01	29:06	29:06	80
82	29:31	29:36	29:41	29:47	29:52	29:58	29:63	29:68	29:74	29:79	29:79	82
84	30:02	30:08	30:13	30:19	30:24	30:30	30:35	30:41	30:46	30:52	30:52	84
86	30:74	30:79	30:85	30:91	30:96	31:02	31:08	31:13	31:19	31:24	31:24	86
88	31:45	31:51	31:57	31:62	31:68	31:74	31:80	31:86	31:91	31:97	31:97	88
90	32:17	32:22	32:28	32:34	32:40	32:46	32:52	32:58	32:64	32:70	32:70	90
92	32:88	32:94	33:00	33:06	33:12	33:18	33:24	33:30	33:36	33:42	33:42	92
94	33:59	33:66	33:72	33:78	33:84	33:90	33:97	34:03	34:09	34:15	34:15	94
96	34:31	34:37	34:44	34:50	34:56	34:63	34:69	34:75	34:81	34:88	34:88	96
98	35:02	35:09	35:15	35:22	35:28	35:35	35:41	35:48	35:54	35:60	35:60	98
100	35:74	35:80	35:87	35:94	36:00	36:07	36:13	36:20	36:26	36:33	36:33	100

Távolság	20°										Távolság	
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2	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74	2
4	1.46	1.46	1.46	1.46	1.47	1.47	1.47	1.47	1.48	1.48	1.48	4
6	2.18	2.19	2.19	2.20	2.20	2.20	2.21	2.21	2.22	2.22	2.22	6
8	2.91	2.92	2.92	2.93	2.93	2.94	2.94	2.95	2.95	2.96	2.96	8
10	3.64	3.65	3.65	3.66	3.67	3.67	3.68	3.69	3.69	3.70	3.70	10
12	4.37	4.38	4.38	4.39	4.40	4.41	4.42	4.42	4.43	4.44	4.44	12
14	5.10	5.10	5.11	5.12	5.13	5.14	5.15	5.16	5.17	5.18	5.18	14
16	5.82	5.83	5.84	5.86	5.87	5.88	5.89	5.90	5.91	5.92	5.92	16
18	6.55	6.56	6.58	6.59	6.60	6.61	6.62	6.63	6.65	6.66	6.66	18
20	7.28	7.29	7.31	7.32	7.33	7.35	7.36	7.37	7.38	7.40	7.40	20
22	8.01	8.02	8.04	8.05	8.07	8.08	8.09	8.11	8.12	8.14	8.14	22
24	8.74	8.75	8.77	8.78	8.80	8.81	8.83	8.85	8.86	8.88	8.88	24
26	9.46	9.48	9.50	9.51	9.53	9.55	9.57	9.58	9.60	9.62	9.62	26
28	10.19	10.21	10.23	10.25	10.27	10.28	10.30	10.32	10.34	10.36	10.36	28
30	10.92	10.94	10.96	10.98	11.00	11.02	11.04	11.06	11.08	11.10	11.10	30
32	11.65	11.67	11.69	11.71	11.73	11.75	11.77	11.79	11.82	11.84	11.84	32
34	12.37	12.40	12.42	12.44	12.46	12.49	12.51	12.53	12.55	12.58	12.58	34
36	13.10	13.13	13.15	13.17	13.20	13.22	13.25	13.27	13.29	13.32	13.32	36
38	13.83	13.86	13.88	13.91	13.93	13.96	13.98	14.01	14.03	14.06	14.06	38
40	14.56	14.59	14.61	14.64	14.66	14.69	14.72	14.74	14.77	14.80	14.80	40
42	15.29	15.31	15.34	15.37	15.40	15.43	15.45	15.48	15.51	15.54	15.54	42
44	16.01	16.04	16.07	16.10	16.13	16.16	16.19	16.22	16.25	16.28	16.28	44
46	16.74	16.77	16.80	16.83	16.86	16.89	16.92	16.96	16.99	17.02	17.02	46
48	17.47	17.50	17.53	17.57	17.60	17.63	17.66	17.69	17.72	17.76	17.76	48
50	18.20	18.23	18.26	18.30	18.33	18.36	18.40	18.43	18.46	18.50	18.50	50
52	18.93	18.96	19.00	19.03	19.06	19.10	19.13	19.17	19.20	19.24	19.24	52
54	19.65	19.69	19.73	19.76	19.80	19.83	19.87	19.90	19.94	19.98	19.98	54
56	20.38	20.42	20.46	20.49	20.53	20.57	20.60	20.64	20.68	20.71	20.71	56
58	21.11	21.15	21.19	21.23	21.26	21.30	21.34	21.38	21.42	21.45	21.45	58
60	21.84	21.88	21.92	21.96	22.00	22.04	22.08	22.12	22.15	22.19	22.19	60
62	22.57	22.61	22.65	22.69	22.73	22.77	22.81	22.85	22.89	22.93	22.93	62
64	23.29	23.34	23.38	23.42	23.46	23.51	23.55	23.59	23.63	23.67	23.67	64
66	24.02	24.07	24.11	24.15	24.20	24.24	24.28	24.33	24.37	24.41	24.41	66
68	24.75	24.79	24.84	24.88	24.93	24.97	25.02	25.06	25.11	25.15	25.15	68
70	25.48	25.52	25.57	25.62	25.66	25.71	25.76	25.80	25.85	25.89	25.89	70
72	26.21	26.25	26.30	26.35	26.40	26.44	26.49	26.54	26.59	26.63	26.63	72
74	26.93	26.98	27.03	27.08	27.13	27.18	27.23	27.28	27.32	27.37	27.37	74
76	27.66	27.71	27.76	27.81	27.86	27.91	27.96	28.01	28.06	28.11	28.11	76
78	28.39	28.44	28.49	28.54	28.60	28.65	28.70	28.75	28.80	28.85	28.85	78
80	29.12	29.17	29.22	29.28	29.33	29.38	29.43	29.49	29.54	29.59	29.59	80
82	29.85	29.90	29.95	30.01	30.06	30.11	30.17	30.22	30.28	30.33	30.33	82
84	30.57	30.63	30.68	30.74	30.80	30.85	30.91	30.96	31.02	31.07	31.07	84
86	31.30	31.36	31.41	31.47	31.53	31.59	31.64	31.70	31.76	31.81	31.81	86
88	32.03	32.09	32.15	32.20	32.26	32.32	32.38	32.44	32.49	32.55	32.55	88
90	32.76	32.82	32.88	32.94	32.99	33.05	33.11	33.17	33.23	33.29	33.29	90
92	33.49	33.55	33.61	33.67	33.73	33.79	33.85	33.91	33.97	34.03	34.03	92
94	34.21	34.28	34.34	34.40	34.46	34.52	34.59	34.65	34.71	34.77	34.77	94
96	34.94	35.00	35.07	35.13	35.19	35.26	35.32	35.38	35.45	35.51	35.51	96
98	35.67	35.73	35.80	35.86	35.93	35.99	36.06	36.12	36.19	36.25	36.25	98
100	36.40	36.46	36.53	36.59	36.66	36.73	36.79	36.86	36.92	36.99	36.99	100

Távolság	20°										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
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62	25:47	25:51	25:55	25:60	25:64	25:68	25:72	25:77	25:81	25:85	62
64	26:29	26:34	26:38	26:42	26:47	26:51	26:55	26:60	26:64	26:68	64
66	27:11	27:16	27:20	27:25	27:29	27:34	27:38	27:43	27:47	27:52	66
68	27:94	27:98	28:03	28:07	28:12	28:17	28:21	28:26	28:31	28:35	68
70	28:76	28:80	28:85	28:90	28:95	28:99	29:04	29:09	29:14	29:19	70
72	29:58	29:63	29:68	29:73	29:77	29:82	29:87	29:92	29:97	30:02	72
74	30:40	30:45	30:50	30:55	30:60	30:65	30:70	30:75	30:80	30:85	74
76	31:22	31:27	31:32	31:38	31:43	31:48	31:53	31:58	31:64	31:69	76
78	32:04	32:10	32:15	32:20	32:26	32:31	32:36	32:41	32:47	32:52	78
80	32:86	32:92	32:97	33:03	33:08	33:14	33:19	33:25	33:30	33:36	80
82	33:69	33:74	33:80	33:85	33:91	33:97	34:02	34:08	34:13	34:19	82
84	34:51	34:57	34:62	34:68	34:74	34:79	34:85	34:91	34:97	35:02	84
86	35:33	35:39	35:45	35:51	35:56	35:62	35:68	35:74	35:80	35:86	86
88	36:15	36:21	36:27	36:33	36:39	36:45	36:51	36:57	36:63	36:69	88
90	36:97	37:03	37:10	37:16	37:22	37:28	37:34	37:40	37:46	37:52	90
92	37:79	37:86	37:92	37:98	38:04	38:11	38:17	38:23	38:30	38:36	92
94	38:62	38:68	38:74	38:81	38:87	38:94	39:00	39:06	39:13	39:19	94
96	39:44	39:50	39:57	39:63	39:70	39:76	39:83	39:90	39:96	40:03	96
98	40:26	40:33	40:39	40:46	40:53	40:59	40:66	40:73	40:79	40:86	98
100	41:08	41:15	41:22	41:29	41:35	41:42	41:49	41:56	41:63	41:69	100

Távolság	22°										Távolság	
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'		
1	0:42	0:42	0:42	0:42	0:42	0:42	0:42	0:42	0:42	0:42	0:42	1
2	0:84	0:84	0:84	0:84	0:84	0:84	0:84	0:84	0:84	0:85	0:85	2
4	1:67	1:67	1:68	1:68	1:68	1:68	1:69	1:69	1:69	1:69	1:70	4
6	2:51	2:51	2:51	2:52	2:52	2:53	2:53	2:53	2:54	2:54	2:54	6
8	3:34	3:35	3:35	3:36	3:36	3:37	3:37	3:38	3:38	3:39	3:39	8
10	4:18	4:18	4:19	4:20	4:20	4:21	4:22	4:22	4:23	4:24	4:24	10
12	5:01	5:02	5:03	5:04	5:04	5:05	5:06	5:07	5:08	5:09	5:09	12
14	5:85	5:86	5:87	5:88	5:89	5:89	5:90	5:01	5:92	5:93	5:93	14
16	6:68	6:69	6:70	6:71	6:73	6:74	6:75	6:76	6:77	6:78	6:78	16
18	7:52	7:53	7:54	7:55	7:57	7:58	7:59	7:60	7:62	7:63	7:63	18
20	8:35	8:37	8:38	8:39	8:41	8:42	8:43	8:45	8:46	8:48	8:48	20
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24	10:02	10:04	10:06	10:07	10:09	10:11	10:12	10:14	10:15	10:17	10:17	24
26	10:86	10:88	10:89	10:91	10:93	10:95	10:97	10:98	11:00	11:02	11:02	26
28	11:69	11:71	11:73	11:75	11:77	11:79	11:81	11:83	11:85	11:87	11:87	28
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32	13:36	13:39	13:41	13:43	13:45	13:47	13:50	13:52	13:54	13:56	13:56	32
34	14:20	14:22	14:25	14:27	14:29	14:32	14:34	14:36	14:39	14:41	14:41	34
36	15:03	15:06	15:08	15:11	15:13	15:16	15:18	15:21	15:23	15:26	15:26	36
38	15:87	15:90	15:92	15:95	15:97	16:00	16:03	16:05	16:08	16:10	16:10	38
40	16:71	16:73	16:76	16:79	16:81	16:84	16:87	16:90	16:92	16:95	16:95	40
42	17:54	17:57	17:60	17:63	17:66	17:68	17:71	17:74	17:77	17:80	17:80	42
44	18:38	18:41	18:44	18:47	18:50	18:53	18:56	18:59	18:62	18:65	18:65	44
46	19:21	19:24	19:27	19:31	19:34	19:37	19:40	19:43	19:46	19:49	19:49	46
48	20:05	20:08	20:11	20:14	20:18	20:21	20:24	20:28	20:31	20:34	20:34	48
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54	22:55	22:59	22:63	22:66	22:70	22:74	22:77	22:81	22:85	22:88	22:88	54
56	23:39	23:43	23:46	23:50	23:54	23:58	23:62	23:66	23:69	23:73	23:73	56
58	24:22	24:26	24:30	24:34	24:38	24:42	24:46	24:50	24:54	24:58	24:58	58
60	25:06	25:10	25:14	25:18	25:22	25:26	25:30	25:34	25:39	25:43	25:43	60
62	25:89	25:94	25:98	26:02	26:06	26:10	26:15	26:19	26:23	26:27	26:27	62
64	26:73	26:77	26:82	26:86	26:90	26:95	26:99	27:03	27:08	27:12	27:12	64
66	27:56	27:61	27:65	27:70	27:74	27:79	27:83	27:88	27:92	27:97	27:97	66
68	28:40	28:45	28:49	28:54	28:58	28:63	28:68	28:72	28:77	28:82	28:82	68
70	29:23	29:28	29:33	29:38	29:43	29:47	29:52	29:57	29:62	29:67	29:67	70
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74	30:90	30:95	31:01	31:06	31:11	31:16	31:21	31:26	31:31	31:36	31:36	74
76	31:74	31:79	31:84	31:90	31:95	32:00	32:05	32:10	32:16	32:21	32:21	76
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84	35:08	35:14	35:20	35:25	35:31	35:37	35:43	35:48	35:54	35:60	35:60	84
86	35:92	35:97	36:03	36:09	36:15	36:21	36:27	36:33	36:39	36:45	36:45	86
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96	40:09	40:16	40:22	40:29	40:35	40:42	40:49	40:55	40:62	40:68	40:68	96
98	40:93	40:99	41:06	41:13	41:20	41:26	41:33	41:40	41:46	41:53	41:53	98
100	41:76	41:83	41:90	41:97	42:04	42:10	42:17	42:24	42:31	42:38	42:38	100

Távolság	23°										Távolság
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16	6:79	6:80	6:81	6:82	6:84	6:85	6:86	6:87	6:88	6:89	16
18	7:64	7:65	7:67	7:68	7:69	7:70	7:71	7:73	7:74	7:75	18
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24	10:19	10:20	10:22	10:24	10:25	10:27	10:29	10:30	10:32	10:34	24
26	11:04	11:05	11:07	11:09	11:11	11:13	11:14	11:16	11:18	11:20	26
28	11:89	11:90	11:92	11:94	11:96	11:98	12:00	12:02	12:04	12:06	28
30	12:73	12:75	12:78	12:80	12:82	12:84	12:86	12:88	12:90	12:92	30
32	13:58	13:61	13:63	13:65	13:67	13:69	13:72	13:74	13:76	13:78	32
34	14:43	14:46	14:48	14:50	14:53	14:55	14:57	14:60	14:62	14:64	34
36	15:28	15:31	15:33	15:36	15:38	15:40	15:43	15:45	15:48	15:50	36
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40	16:98	17:01	17:03	17:06	17:09	17:12	17:14	17:17	17:20	17:23	40
42	17:83	17:86	17:89	17:91	17:94	17:97	18:00	18:03	18:06	18:09	42
44	18:68	18:71	18:74	18:77	18:80	18:83	18:86	18:89	18:92	18:95	44
46	19:53	19:56	19:59	19:62	19:65	19:68	19:72	19:75	19:78	19:81	46
48	20:37	20:41	20:44	20:47	20:51	20:54	20:57	20:61	20:64	20:67	48
50	21:22	21:26	21:29	21:33	21:36	21:40	21:43	21:46	21:50	21:53	50
52	22:07	22:11	22:14	22:18	22:22	22:25	22:29	22:32	22:36	22:39	52
54	22:92	22:96	23:00	23:03	23:07	23:11	23:14	23:18	23:22	23:26	54
56	23:77	23:81	23:85	23:89	23:92	23:96	24:00	24:04	24:08	24:12	56
58	24:62	24:66	24:70	24:74	24:78	24:82	24:86	24:90	24:94	24:98	58
60	25:47	25:51	25:55	25:59	25:63	25:67	25:72	25:76	25:80	25:84	60
62	26:32	26:36	26:40	26:45	26:49	26:53	26:57	26:62	26:66	26:70	62
64	27:17	27:21	27:25	27:30	27:34	27:39	27:43	27:47	27:52	27:56	64
66	28:02	28:06	28:11	28:15	28:20	28:24	28:29	28:33	28:38	28:42	66
68	28:86	28:91	28:96	29:00	29:05	29:10	29:14	29:19	29:24	29:29	68
70	29:71	29:76	29:81	29:86	29:91	29:95	30:00	30:05	30:10	30:15	70
72	30:56	30:61	30:66	30:71	30:76	30:81	30:86	30:91	30:96	31:01	72
74	31:41	31:46	31:51	31:56	31:61	31:67	31:72	31:77	31:82	31:87	74
76	32:26	32:31	32:36	32:42	32:47	32:52	32:57	32:63	32:68	32:73	76
78	33:11	33:16	33:22	33:27	33:32	33:38	33:43	33:48	33:54	33:59	78
80	33:96	34:01	34:07	34:12	34:18	34:23	34:29	34:34	34:40	34:45	80
82	34:81	34:86	34:92	34:98	35:03	35:09	35:15	35:20	35:26	35:31	82
84	35:66	35:71	35:77	35:83	35:89	35:94	36:00	36:06	36:12	36:18	84
86	36:50	36:56	36:62	36:68	36:74	36:80	36:86	36:92	36:98	37:04	86
88	37:35	37:41	37:47	37:54	37:60	37:66	37:72	37:78	37:84	37:90	88
90	38:20	38:26	38:33	38:39	38:45	38:51	38:57	38:64	38:70	38:76	90
92	39:05	39:11	39:18	39:24	39:30	39:37	39:43	39:49	39:56	39:62	92
94	39:90	39:97	40:03	40:09	40:16	40:22	40:29	40:35	40:42	40:48	94
96	40:75	40:82	40:88	40:95	41:01	41:08	41:15	41:21	41:28	41:34	96
98	41:60	41:67	41:73	41:80	41:87	41:94	42:00	42:07	42:14	42:21	98
100	42:45	42:52	42:58	42:65	42:72	42:79	42:86	42:93	43:00	43:07	100

Távolság	23°										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	1
2	0.86	0.86	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.88	2
4	1.73	1.73	1.73	1.73	1.74	1.74	1.74	1.74	1.75	1.75	4
6	2.59	2.59	2.60	2.60	2.60	2.61	2.61	2.62	2.62	2.63	6
8	3.45	3.46	3.46	3.47	3.47	3.48	3.48	3.49	3.50	3.50	8
10	4.31	4.32	4.33	4.33	4.34	4.35	4.36	4.36	4.37	4.38	10
12	5.18	5.18	5.19	5.20	5.21	5.22	5.23	5.23	5.24	5.25	12
14	6.04	6.05	6.06	6.07	6.08	6.09	6.10	6.11	6.12	6.13	14
16	6.90	6.91	6.92	6.93	6.95	6.96	6.97	6.98	6.99	7.00	16
18	7.76	7.78	7.79	7.80	7.81	7.83	7.84	7.85	7.86	7.88	18
20	8.63	8.64	8.65	8.67	8.68	8.70	8.71	8.72	8.74	8.75	20
22	9.49	9.51	9.52	9.54	9.55	9.57	9.58	9.60	9.61	9.63	22
24	10.35	10.37	10.39	10.40	10.42	10.44	10.45	10.47	10.49	10.50	24
26	11.22	11.23	11.25	11.27	11.29	11.31	11.32	11.34	11.36	11.38	26
28	12.08	12.10	12.12	12.14	12.16	12.17	12.19	12.21	12.23	12.25	28
30	12.94	12.96	12.98	13.00	13.02	13.04	13.07	13.09	13.11	13.13	30
32	13.80	13.83	13.85	13.87	13.89	13.91	13.94	13.96	13.98	14.00	32
34	14.67	14.69	14.71	14.74	14.76	14.78	14.81	14.83	14.85	14.88	34
36	15.53	15.55	15.58	15.60	15.63	15.65	15.68	15.70	15.73	15.75	36
38	16.39	16.42	16.44	16.47	16.50	16.52	16.55	16.58	16.60	16.63	38
40	17.25	17.28	17.31	17.34	17.36	17.39	17.42	17.45	17.48	17.50	40
42	18.12	18.15	18.18	18.20	18.23	18.26	18.29	18.32	18.35	18.38	42
44	18.98	19.01	19.04	19.07	19.10	19.13	19.16	19.19	19.22	19.25	44
46	19.84	19.87	19.91	19.94	19.97	20.00	20.03	20.07	20.10	20.13	46
48	20.71	20.74	20.77	20.80	20.84	20.87	20.90	20.94	20.97	21.00	48
50	21.57	21.60	21.64	21.67	21.71	21.74	21.78	21.81	21.84	21.88	50
52	22.43	22.47	22.50	22.54	22.57	22.61	22.65	22.68	22.72	22.75	52
54	23.29	23.33	23.37	23.41	23.44	23.48	23.52	23.55	23.59	23.63	54
56	24.16	24.19	24.23	24.27	24.31	24.35	24.39	24.43	24.47	24.50	56
58	25.02	25.06	25.10	25.14	25.18	25.22	25.26	25.30	25.34	25.38	58
60	25.88	25.92	25.96	26.01	26.05	26.09	26.13	26.17	26.21	26.25	60
62	26.74	26.79	26.83	26.87	26.92	26.96	27.00	27.04	27.09	27.13	62
64	27.61	27.65	27.70	27.74	27.78	27.83	27.87	27.92	27.96	28.01	64
66	28.47	28.52	28.56	28.61	28.65	28.70	28.74	28.79	28.83	28.88	66
68	29.33	29.38	29.43	29.47	29.52	29.57	29.61	29.66	29.71	29.76	68
70	30.20	30.24	30.29	30.34	30.39	30.44	30.49	30.53	30.58	30.63	70
72	31.06	31.11	31.16	31.21	31.26	31.31	31.36	31.41	31.46	31.51	72
74	31.92	31.97	32.02	32.07	32.12	32.18	32.23	32.28	32.33	32.38	74
76	32.78	32.84	32.89	32.94	32.99	33.05	33.10	33.15	33.20	33.26	76
78	33.65	33.70	33.75	33.81	33.86	33.92	33.97	34.02	34.08	34.13	78
80	34.51	34.56	34.62	34.67	34.73	34.78	34.84	34.90	34.95	35.01	80
82	35.37	35.43	35.48	35.54	35.60	35.65	35.71	35.77	35.82	35.88	82
84	36.23	36.29	36.35	36.41	36.47	36.52	36.58	36.64	36.70	36.76	84
86	37.10	37.16	37.22	37.27	37.33	37.39	37.45	37.51	37.57	37.63	86
88	37.96	38.02	38.08	38.14	38.20	38.26	38.33	38.39	38.45	38.51	88
90	38.82	38.88	38.95	39.01	39.07	39.13	39.20	39.26	39.32	39.38	90
92	39.69	39.75	39.81	39.88	39.94	40.00	40.08	40.13	40.19	40.26	92
94	40.55	40.61	40.68	40.74	40.81	40.87	40.95	41.00	41.07	41.13	94
96	41.41	41.48	41.54	41.61	41.68	41.74	41.82	41.88	41.94	42.01	96
98	42.27	42.34	42.41	42.48	42.54	42.61	42.69	42.75	42.82	42.88	98
100	43.14	43.20	43.27	43.34	43.41	43.48	43.55	43.62	43.69	43.76	100

Távolság	23°										Távolság	
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Távolság	24°										Távolság
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Távolság	21 ⁰										Távolság
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Távolság	21 ⁰										Távolság	
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66	31:72	31:76	31:81	31:86	31:91	31:95	32:00	32:05	32:10	32:14	66
68	32:68	32:73	32:77	32:82	32:87	32:92	32:97	33:02	33:07	33:12	68
70	33:64	33:69	33:74	33:79	32:84	33:89	33:94	33:99	34:04	34:09	70
72	34:60	34:65	34:70	34:75	34:81	34:86	34:91	34:96	35:01	35:06	72
74	35:56	35:61	35:67	35:72	35:77	35:83	35:88	35:93	35:99	36:04	74
76	36:52	36:58	36:63	36:69	36:74	36:79	36:85	36:90	36:96	37:01	76
78	37:48	37:54	37:59	37:65	37:71	37:76	37:82	37:87	37:93	37:99	78
80	38:44	38:50	38:56	38:62	38:67	38:73	38:79	38:85	38:90	38:96	80
82	39:41	39:46	39:52	39:58	39:64	39:70	39:76	39:82	39:88	39:93	82
84	40:37	40:43	40:49	40:55	40:61	40:67	40:73	40:79	40:85	40:91	84
86	41:33	41:39	41:45	41:51	41:57	41:64	41:70	41:76	41:82	41:88	86
88	42:29	42:35	42:41	42:48	42:54	42:60	42:67	42:73	42:79	42:86	88
90	43:25	43:31	43:38	43:44	43:51	43:57	43:64	43:70	43:77	43:83	90
92	44:21	44:28	44:34	44:41	44:47	44:54	44:61	44:67	44:74	44:80	92
94	45:17	45:24	45:31	45:37	45:44	45:51	45:58	45:64	45:71	45:78	94
96	46:13	46:20	46:27	46:34	46:41	46:48	46:55	46:61	46:68	46:75	96
98	47:09	47:16	47:23	47:30	47:38	47:45	47:52	47:59	47:66	47:73	98
100	48:06	48:13	48:20	48:27	48:34	48:41	48:49	48:56	48:63	48:70	100

Távolság	26°										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.488	0.488	0.489	0.490	0.491	0.491	0.492	0.493	0.494	0.494	1
2	0.975	0.977	0.978	0.980	0.981	0.983	0.984	0.986	0.987	0.988	2
3	1.463	1.465	1.468	1.470	1.472	1.474	1.476	1.478	1.481	1.483	3
4	1.951	1.954	1.957	1.960	1.962	1.965	1.968	1.971	1.974	1.977	4
5	2.439	2.442	2.446	2.450	2.453	2.457	2.460	2.464	2.468	2.471	5
6	2.926	2.931	2.935	2.939	2.944	2.948	2.952	2.957	2.961	2.965	6
7	3.414	3.419	3.424	3.429	3.434	3.439	3.444	3.449	3.455	3.460	7
8	3.902	3.908	3.913	3.919	3.925	3.931	3.936	3.942	3.948	3.954	8
9	4.390	4.396	4.403	4.409	4.416	4.422	4.429	4.435	4.442	4.448	9
10	4.877	4.884	4.892	4.899	4.906	4.913	4.921	4.928	4.935	4.942	10
27°											
1	0.510	0.510	0.511	0.512	0.512	0.513	0.514	0.515	0.515	0.516	1
2	1.019	1.021	1.021	1.023	1.025	1.026	1.028	1.029	1.031	1.032	2
3	1.529	1.531	1.533	1.535	1.538	1.540	1.542	1.544	1.546	1.548	3
4	2.038	2.041	2.044	2.047	2.050	2.053	2.056	2.059	2.062	2.065	4
5	2.548	2.551	2.555	2.559	2.562	2.566	2.570	2.573	2.577	2.581	5
6	3.057	3.062	3.066	3.070	3.075	3.079	3.084	3.088	3.092	3.097	6
7	3.567	3.572	3.577	3.582	3.587	3.592	3.598	3.603	3.608	3.613	7
8	4.076	4.082	4.088	4.094	4.100	4.106	4.111	4.117	4.123	4.129	8
9	4.586	4.592	4.599	4.606	4.612	4.619	4.626	4.632	4.639	4.645	9
10	5.095	5.103	5.110	5.117	5.125	5.132	5.139	5.147	5.154	5.161	10
28°											
1	0.532	0.532	0.533	0.534	0.535	0.535	0.536	0.537	0.538	0.538	1
2	1.063	1.065	1.066	1.068	1.069	1.071	1.072	1.074	1.075	1.077	2
3	1.595	1.597	1.600	1.602	1.604	1.606	1.609	1.611	1.613	1.615	3
4	2.127	2.130	2.133	2.136	2.139	2.142	2.145	2.148	2.151	2.154	4
5	2.659	2.662	2.666	2.670	2.674	2.677	2.681	2.685	2.688	2.692	5
6	3.190	3.195	3.199	3.204	3.208	3.213	3.217	3.222	3.226	3.231	6
7	3.722	3.727	3.732	3.738	3.743	3.748	3.753	3.759	3.764	3.769	7
8	4.254	4.260	4.266	4.272	4.278	4.284	4.290	4.296	4.302	4.308	8
9	4.785	4.792	4.799	4.806	4.812	4.819	4.826	4.832	4.839	4.846	9
10	5.317	5.325	5.332	5.339	5.347	5.354	5.362	5.369	5.377	5.384	10
29°											
1	0.554	0.555	0.556	0.557	0.557	0.558	0.559	0.560	0.560	0.561	1
2	1.109	1.110	1.112	1.113	1.115	1.116	1.118	1.119	1.121	1.122	2
3	1.663	1.665	1.667	1.670	1.672	1.674	1.678	1.679	1.681	1.684	3
4	2.217	2.220	2.223	2.226	2.229	2.232	2.236	2.239	2.242	2.245	4
5	2.772	2.775	2.779	2.783	2.787	2.791	2.794	2.798	2.802	2.806	5
6	3.326	3.330	3.335	3.340	3.344	3.349	3.353	3.358	3.362	3.367	6
7	3.880	3.885	3.891	3.896	3.902	3.907	3.912	3.918	3.923	3.928	7
8	4.434	4.441	4.447	4.453	4.459	4.465	4.471	4.477	4.483	4.489	8
9	4.989	4.996	5.002	5.009	5.016	5.023	5.030	5.037	5.044	5.051	9
10	5.543	5.551	5.558	5.566	5.574	5.581	5.589	5.596	5.604	5.612	10
30°											
1	0.577	0.578	0.579	0.580	0.580	0.581	0.582	0.583	0.584	0.584	1
2	1.155	1.156	1.158	1.159	1.161	1.162	1.164	1.166	1.167	1.169	2
3	1.732	1.734	1.737	1.739	1.741	1.744	1.746	1.748	1.751	1.753	3
4	2.309	2.313	2.316	2.319	2.322	2.325	2.328	2.331	2.334	2.337	4
5	2.887	2.891	2.895	2.898	2.902	2.906	2.910	2.914	2.918	2.922	5
6	3.464	3.469	3.473	3.478	3.483	3.487	3.492	3.497	3.501	3.506	6
7	4.041	4.047	4.052	4.058	4.063	4.069	4.074	4.080	4.085	4.090	7
8	4.619	4.625	4.631	4.637	4.644	4.650	4.656	4.662	4.669	4.675	8
9	5.196	5.203	5.210	5.217	5.224	5.231	5.238	5.245	5.252	5.259	9
10	5.773	5.781	5.789	5.797	5.805	5.812	5.820	5.828	5.836	5.843	10

Távolság	26 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.495	0.496	0.496	0.497	0.498	0.499	0.499	0.500	0.501	0.501	1
2	0.990	0.991	0.993	0.994	0.996	0.997	0.999	1.000	1.002	0.003	2
3	1.485	1.487	1.489	1.491	1.494	1.496	1.498	1.500	1.502	1.504	3
4	1.980	1.983	1.986	1.989	1.991	1.994	1.997	2.000	2.003	2.006	4
5	2.475	2.478	2.482	2.486	2.489	2.493	2.497	2.500	2.504	2.507	5
6	2.970	2.974	2.978	2.983	2.987	2.991	2.996	3.000	3.005	3.009	6
7	3.465	3.470	3.475	3.480	3.485	3.490	3.495	3.500	3.505	3.510	7
8	3.960	3.965	3.971	3.977	3.983	3.989	3.994	4.000	4.006	4.012	8
9	4.455	4.461	4.468	4.474	4.481	4.487	4.494	4.500	4.507	4.513	9
10	4.950	4.957	4.964	4.971	4.979	4.986	4.993	5.000	5.008	5.015	10
27 ⁰											
1	0.517	0.518	0.518	0.519	0.520	0.521	0.521	0.522	0.523	0.524	1
2	1.034	1.035	1.037	1.038	1.040	1.041	1.043	1.044	1.046	1.047	2
3	1.551	1.553	1.555	1.557	1.559	1.562	1.564	1.566	1.568	1.571	3
4	2.068	2.070	2.073	2.076	2.079	2.082	2.085	2.088	2.091	2.094	4
5	2.584	2.588	2.592	2.595	2.599	2.603	2.607	2.610	2.614	2.618	5
6	3.101	3.106	3.110	3.115	3.119	3.123	3.128	3.132	3.137	3.141	6
7	3.618	3.623	3.628	3.634	3.639	3.644	3.649	3.654	3.660	3.665	7
8	4.135	4.141	4.147	4.153	4.159	4.165	4.170	4.176	4.182	4.188	8
9	4.652	4.658	4.665	4.672	4.678	4.685	4.692	4.698	4.705	4.712	9
10	5.169	5.176	5.183	5.191	5.198	5.206	5.213	5.220	5.228	5.235	10
28 ⁰											
1	0.539	0.540	0.541	0.541	0.542	0.543	0.544	0.544	0.545	0.546	1
2	1.078	1.080	1.081	1.083	1.084	1.086	1.087	1.089	1.090	1.092	2
3	1.618	1.620	1.622	1.624	1.627	1.629	1.631	1.633	1.636	1.638	3
4	2.157	2.160	2.163	2.166	2.169	2.172	2.175	2.178	2.181	2.184	4
5	2.697	2.700	2.703	2.707	2.711	2.715	2.719	2.722	2.726	2.730	5
6	3.235	3.240	3.224	3.249	3.253	3.258	3.262	3.267	3.271	3.276	6
7	3.774	3.780	3.785	3.790	3.795	3.801	3.806	3.811	3.817	3.822	7
8	4.314	4.320	4.326	4.332	4.338	4.344	4.350	4.356	4.362	4.368	8
9	4.853	4.860	4.866	4.873	4.880	4.887	4.893	4.900	4.907	4.914	9
10	5.392	5.399	5.407	5.414	5.422	5.430	5.437	5.445	5.452	5.460	10
29 ⁰											
1	0.562	0.563	0.563	0.564	0.565	0.566	0.567	0.567	0.568	0.569	1
2	1.124	1.125	1.127	1.128	1.130	1.132	1.132	1.135	1.136	1.138	2
3	1.686	1.688	1.690	1.693	1.695	1.697	1.699	1.702	1.704	1.707	3
4	2.248	2.251	2.254	2.257	2.260	2.263	2.265	2.269	2.272	2.275	4
5	2.810	2.814	2.817	2.821	2.825	2.829	2.832	2.837	2.840	2.844	5
6	3.372	3.376	3.381	3.385	3.390	3.395	3.398	3.404	3.408	3.413	6
7	3.934	3.939	3.944	3.950	3.955	3.960	3.965	3.971	3.977	3.982	7
8	4.496	4.502	4.508	4.514	4.520	4.526	4.531	4.538	4.545	4.551	8
9	5.057	5.064	5.071	5.078	5.085	5.092	5.098	5.106	5.113	5.120	9
10	5.619	5.627	5.635	5.642	5.650	5.658	5.664	5.673	5.681	5.688	10
30 ⁰											
1	0.585	0.586	0.587	0.587	0.588	0.589	0.590	0.591	0.591	0.592	1
2	1.170	1.172	1.173	1.175	1.177	1.178	1.180	1.181	1.183	1.184	2
3	1.755	1.758	1.760	1.762	1.765	1.767	1.769	1.772	1.774	1.777	3
4	2.341	2.344	2.347	2.350	2.353	2.356	2.359	2.362	2.366	2.369	4
5	2.926	2.930	2.934	2.937	2.941	2.945	2.949	2.953	2.957	2.961	5
6	3.511	3.515	3.520	3.525	3.530	3.534	3.539	3.544	3.548	3.553	6
7	4.096	4.101	4.107	4.112	4.118	4.123	4.129	4.134	4.140	4.145	7
8	4.681	4.687	4.694	4.700	4.706	4.712	4.719	4.725	4.731	4.737	8
9	5.266	5.273	5.280	5.287	5.294	5.301	5.308	5.315	5.323	5.330	9
10	5.851	5.859	5.867	5.875	5.883	5.890	5.898	5.906	5.914	5.922	10

Távolság	26 ^o										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0·502	0·503	0·504	0·504	0·505	6·506	0·507	0·507	0·508	0·509	1
2	1·004	1·006	1·007	1·009	1·010	1·012	1·013	1·015	1·016	1·018	2
3	1·507	1·509	1·511	1·513	1·515	1·518	1·520	1·522	1·524	1·526	3
4	2·009	2·012	2·015	2·018	2·021	2·023	2·026	2·029	2·032	2·035	4
5	2·511	2·515	2·519	2·522	2·526	2·529	2·533	2·537	2·540	2·544	5
6	3·013	3·018	3·022	2·026	2·031	3·035	3·040	3·044	3·048	3·053	6
7	3·516	3·521	3·526	3·531	3·536	3·541	3·546	3·551	3·556	3·562	7
8	4·018	4·024	4·029	4·035	4·041	4·047	4·053	4·059	4·064	4·070	8
9	4·520	4·527	4·533	4·540	4·546	4·553	4·559	4·566	4·573	4·579	9
10	5·022	5·029	5·037	5·044	5·051	5·059	5·066	5·073	5·081	5·088	10

27^o

1	0·524	0·525	0·526	0·526	0·527	0·528	0·529	0·529	0·530	0·531	1
2	1·049	1·050	1·052	1·053	1·054	1·056	1·057	1·059	1·060	1·062	2
3	1·573	1·575	1·577	1·580	1·582	1·584	1·586	1·588	1·591	1·593	3
4	2·097	2·100	2·103	2·106	2·109	2·112	2·115	2·118	2·121	2·124	4
5	2·621	2·625	2·629	2·633	2·636	2·640	2·644	2·647	2·651	2·655	5
6	3·146	3·150	3·155	3·159	3·163	3·168	3·172	3·177	3·181	3·186	6
7	3·670	3·675	3·680	3·686	3·691	3·696	3·701	3·706	3·712	3·717	7
8	4·194	4·200	4·206	4·212	4·218	4·224	4·230	4·236	4·242	4·248	8
9	4·718	4·725	4·732	4·739	4·745	4·752	4·759	4·765	4·772	4·779	9
10	5·243	5·250	5·258	5·265	5·272	5·280	5·287	5·295	5·302	5·310	10

28^o

1	0·547	0·547	0·548	0·549	0·550	0·551	0·551	0·552	0·553	0·554	1
2	1·093	1·095	1·096	1·098	1·100	1·101	1·103	1·104	1·106	1·107	2
3	1·640	1·642	1·645	1·647	1·649	1·652	1·654	1·656	1·658	1·661	3
4	2·187	2·190	2·193	2·196	2·199	2·202	2·205	2·208	2·211	2·214	4
5	2·734	2·737	2·741	2·745	2·749	2·753	2·756	2·760	2·764	2·768	5
6	3·280	3·285	3·289	3·294	3·298	3·303	3·308	3·312	3·317	3·321	6
7	3·827	3·832	3·838	3·843	3·848	3·854	3·859	3·864	3·870	3·875	7
8	4·374	4·380	4·386	4·392	4·398	4·404	4·410	4·416	4·422	4·428	8
9	4·921	4·927	4·934	4·941	4·948	4·955	4·961	4·968	4·975	4·982	9
10	5·467	5·475	5·482	5·490	5·497	5·505	5·513	5·520	5·528	5·535	10

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1	0·570	0·570	0·571	0·572	0·573	0·573	0·574	0·575	0·576	0·577	1
2	1·139	1·141	1·142	1·144	1·145	1·147	1·148	1·150	1·152	1·153	2
3	1·709	1·711	1·713	1·716	1·718	1·720	1·723	1·725	1·727	1·730	3
4	2·278	2·282	2·284	2·288	2·291	2·294	2·297	2·300	2·303	2·306	4
5	2·848	2·852	2·856	2·860	2·864	2·867	2·871	2·875	2·879	2·883	5
6	3·418	3·422	3·427	3·432	3·436	3·441	3·446	3·450	3·455	3·459	6
7	3·987	3·993	3·998	4·004	4·009	4·014	4·020	4·025	4·031	4·036	7
8	4·557	4·563	4·569	4·575	4·582	4·588	4·594	4·600	4·606	4·613	8
9	5·127	5·134	5·140	5·147	5·154	5·161	5·168	5·175	5·182	5·189	9
10	5·696	5·704	5·712	5·719	5·727	5·735	5·742	5·750	5·758	5·766	10

30^o

1	0·593	0·594	0·595	0·595	0·596	0·597	0·598	0·598	0·599	0·600	1
2	1·186	1·188	1·189	1·191	1·192	1·194	1·195	1·197	1·199	1·200	2
3	1·779	1·781	1·784	1·786	1·788	1·791	1·793	1·795	1·798	1·800	3
4	2·372	2·375	2·378	2·381	2·384	2·388	2·391	2·394	2·397	2·400	4
5	2·965	2·969	2·973	2·977	2·981	2·985	2·989	2·992	2·996	3·000	5
6	3·558	3·563	3·567	3·572	3·577	3·581	3·587	3·591	3·596	3·600	6
7	4·151	4·156	4·162	4·167	4·173	4·178	4·184	4·189	4·195	4·200	7
8	4·744	4·750	4·756	4·763	4·769	4·775	4·782	4·788	4·794	4·801	8
9	5·337	5·344	5·351	5·358	5·366	5·372	5·379	5·386	5·394	5·401	9
10	5·930	5·938	5·945	5·953	5·961	5·969	5·977	5·985	5·993	6·001	10

Távolság	31 ⁰										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.601	0.602	0.602	0.603	0.604	0.605	0.606	0.606	0.607	0.608	1
2	1.202	1.203	1.205	1.206	1.208	1.210	1.211	1.213	1.214	1.216	2
3	1.803	1.805	1.807	1.810	1.812	1.814	1.817	1.819	1.822	1.824	3
4	2.403	2.407	2.410	2.413	2.416	2.419	2.422	2.426	2.429	2.432	4
5	3.004	3.008	3.012	3.016	3.020	3.024	3.028	3.032	3.036	3.040	5
6	3.605	3.610	3.615	3.619	3.624	3.629	3.634	3.639	3.643	3.648	6
7	4.206	4.212	4.217	4.223	4.228	4.234	4.239	4.245	4.250	4.256	7
8	4.807	4.813	4.820	4.826	4.832	4.839	4.845	4.851	4.858	4.864	8
9	5.408	5.415	5.422	5.429	5.436	5.443	5.451	5.458	5.465	5.472	9
10	6.009	6.016	6.024	6.032	6.040	6.048	6.056	6.064	6.072	6.080	10

32⁰

1	0.625	0.626	0.626	0.627	0.628	0.629	0.630	0.631	0.631	0.632	1
2	1.250	1.251	1.253	1.255	1.256	1.258	1.259	1.261	1.263	1.264	2
3	1.875	1.877	1.879	1.882	1.884	1.887	1.889	1.892	1.894	1.897	3
4	2.500	2.503	2.506	2.509	2.512	2.516	2.519	2.522	2.525	2.529	4
5	3.124	3.128	3.132	3.137	3.141	3.145	3.149	3.153	3.157	3.161	5
6	3.749	3.754	3.759	3.764	3.769	3.774	3.778	3.783	3.788	3.793	6
7	4.374	4.380	4.385	4.391	4.397	4.402	4.408	4.414	4.420	4.425	7
8	4.999	5.005	5.012	5.018	5.025	5.031	5.038	5.044	5.051	5.057	8
9	5.624	5.631	5.638	5.646	5.653	5.660	5.668	5.675	5.682	5.690	9
10	6.249	6.257	6.265	6.273	6.281	6.289	6.297	6.305	6.314	6.322	10

33⁰

1	0.649	0.650	0.651	0.652	0.653	0.654	0.654	0.655	0.656	0.657	1
2	1.299	1.300	1.302	1.304	1.305	1.307	1.309	1.310	1.312	1.314	2
3	1.948	1.951	1.953	1.956	1.958	1.961	1.963	1.966	1.968	1.971	3
4	2.598	2.601	2.604	2.608	2.611	2.614	2.618	2.621	2.624	2.628	4
5	3.247	3.251	3.255	3.259	3.264	3.268	3.272	3.276	3.280	3.284	5
6	3.896	3.901	3.906	3.911	3.916	3.921	3.926	3.931	3.936	3.941	6
7	4.546	4.552	4.557	4.563	4.570	4.575	4.581	4.586	4.592	4.598	7
8	5.195	5.202	5.208	5.215	5.222	5.228	5.235	5.242	5.248	5.255	8
9	5.845	5.852	5.860	5.867	5.874	5.882	5.889	5.897	5.904	5.912	9
10	6.494	6.502	6.511	6.519	6.527	6.535	6.544	6.552	6.560	6.569	10

34⁰

1	0.675	0.675	0.676	0.677	0.678	0.679	0.680	0.680	0.681	0.682	1
2	1.349	1.351	1.352	1.354	1.356	1.358	1.359	1.361	1.363	1.364	2
3	2.024	2.026	2.029	2.031	2.034	2.036	2.038	2.041	2.044	2.046	3
4	2.698	2.701	2.705	2.708	2.712	2.715	2.718	2.722	2.725	2.729	4
5	3.373	3.377	3.381	3.385	3.390	3.394	3.398	3.402	3.407	3.411	5
6	4.047	4.052	4.057	4.062	4.067	4.072	4.078	4.083	4.088	4.093	6
7	4.722	4.728	4.733	4.739	4.745	4.751	4.757	4.763	4.769	4.775	7
8	5.396	5.403	5.410	5.416	5.423	5.430	5.437	5.444	5.450	5.457	8
9	6.071	6.078	6.086	6.093	6.101	6.109	6.116	6.124	6.132	6.139	9
10	6.745	6.754	6.762	6.770	6.779	6.787	6.796	6.804	6.813	6.821	10

35⁰

1	0.700	0.701	0.702	0.703	0.704	0.705	0.705	0.706	0.707	0.708	1
2	1.400	1.402	1.404	1.406	1.407	1.409	1.411	1.413	1.414	1.416	2
3	2.101	2.103	2.106	2.108	2.111	2.114	2.116	2.119	2.122	2.124	3
4	2.801	2.804	2.808	2.811	2.815	2.818	2.822	2.825	2.829	2.832	4
5	3.501	3.505	3.510	3.514	3.518	3.523	3.527	3.531	3.536	3.540	5
6	4.201	4.206	4.212	4.217	4.222	4.227	4.233	4.238	4.243	4.248	6
7	4.901	4.907	4.914	4.920	4.926	4.932	4.938	4.944	4.950	4.956	7
8	5.602	5.609	5.616	5.622	5.629	5.636	5.643	5.650	5.657	5.664	8
9	6.302	6.310	6.317	6.325	6.333	6.341	6.349	6.357	6.365	6.372	9
10	7.002	7.011	7.019	7.028	7.037	7.045	7.054	7.063	7.072	7.080	10

Távolság	31°										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0·609	0·610	0·610	0·611	0·612	0·613	0·614	0·614	0·615	0·616	1
2	1·218	1·219	1·221	1·222	1·224	1·226	1·227	1·229	1·230	1·232	2
3	1·826	1·829	1·831	1·834	1·836	1·838	1·841	1·843	1·846	1·848	3
4	2·435	2·438	2·442	2·445	2·448	2·451	2·454	2·458	2·461	2·464	4
5	3·044	3·048	3·052	3·056	3·060	3·064	3·068	3·072	3·076	3·080	5
6	3·653	3·658	3·662	3·668	3·672	3·677	3·682	3·686	3·691	3·696	6
7	4·262	4·267	4·273	4·278	4·284	4·290	4·295	4·301	4·306	4·312	7
8	4·870	4·877	4·883	4·890	4·896	4·902	4·909	4·915	4·922	4·928	8
9	5·479	5·486	5·494	5·501	5·508	5·515	5·522	5·530	5·537	5·544	9
10	6·088	6·096	6·104	6·112	6·120	6·128	6·136	6·144	6·152	6·160	10

32°

1	0·633	0·634	0·635	0·635	0·636	0·637	0·638	0·639	0·640	0·640	1
2	1·266	1·268	1·269	1·271	1·272	1·274	1·276	1·277	1·279	1·281	2
3	1·899	1·901	1·904	1·906	1·909	1·911	1·914	1·916	1·919	1·921	3
4	2·532	2·535	2·538	2·542	2·545	2·548	2·552	2·555	2·558	2·561	4
5	3·165	3·169	3·173	3·177	3·181	3·185	3·189	3·194	3·198	3·202	5
6	3·798	3·803	3·808	3·813	3·817	3·822	3·827	3·832	3·837	3·842	6
7	4·431	4·437	4·442	4·448	4·454	4·459	4·465	4·471	4·477	4·482	7
8	5·064	5·070	5·077	5·084	5·090	5·097	5·103	5·110	5·116	5·123	8
9	5·697	5·704	5·712	5·719	5·726	5·734	5·741	5·748	5·756	5·763	9
10	6·330	6·338	6·346	6·354	6·362	6·371	6·379	6·387	6·395	6·404	10

33°

1	0·658	0·659	0·659	0·660	0·661	0·662	0·663	0·664	0·664	0·665	1
2	1·315	1·317	1·319	1·320	1·322	1·324	1·325	1·327	1·329	1·330	2
3	1·973	1·976	1·978	1·981	1·983	1·986	1·988	1·991	1·993	1·996	3
4	2·631	2·634	2·638	2·641	2·644	2·648	2·651	2·654	2·658	2·661	4
5	3·289	3·293	3·297	3·301	3·305	3·309	3·314	3·318	3·322	3·326	5
6	3·946	3·951	3·956	3·961	3·966	3·971	3·976	3·981	3·986	3·991	6
7	4·604	4·610	4·616	4·621	4·627	4·633	4·639	4·645	4·651	4·657	7
8	5·262	5·268	5·275	5·282	5·288	5·295	5·302	5·308	5·315	5·322	8
9	5·919	5·927	5·934	5·942	5·949	5·957	5·964	5·972	5·980	5·987	9
10	6·577	6·585	6·594	6·602	6·610	6·619	6·627	6·636	6·644	6·652	10

34°

1	0·683	0·684	0·685	0·686	0·686	0·687	0·688	0·689	0·690	0·691	1
2	1·367	1·368	1·369	1·371	1·373	1·375	1·376	1·378	1·380	1·381	2
3	2·049	2·052	2·054	2·057	2·059	2·062	2·064	2·067	2·070	2·072	3
4	2·732	2·735	2·739	2·742	2·746	2·749	2·753	2·756	2·759	2·763	4
5	3·415	3·419	3·424	3·428	3·432	3·436	3·441	3·445	3·449	3·454	5
6	4·098	4·103	4·108	4·113	4·119	4·124	4·129	4·134	4·139	4·144	6
7	4·781	4·787	4·793	4·799	4·805	4·811	4·817	4·823	4·829	4·835	7
8	5·464	5·471	5·478	5·485	5·491	5·498	5·505	5·512	5·519	5·526	8
9	6·147	6·155	6·162	6·170	6·178	6·186	6·193	6·201	6·209	6·216	9
10	6·830	6·839	6·847	6·856	6·864	6·873	6·881	6·890	6·898	6·907	10

35°

1	0·709	0·710	0·711	0·712	0·712	0·713	0·714	0·715	0·716	0·717	1
2	1·418	1·420	1·421	1·423	1·425	1·427	1·428	1·430	1·432	1·434	2
3	2·127	2·129	2·132	2·135	2·137	2·140	2·143	2·145	2·148	2·150	3
4	2·836	2·839	2·843	2·846	2·850	2·853	2·857	2·860	2·864	2·867	4
5	3·545	3·549	3·553	3·558	3·562	3·566	3·571	3·575	3·580	3·584	5
6	4·253	4·259	4·264	4·269	4·275	4·280	4·285	4·290	4·296	4·301	6
7	4·962	4·969	4·975	4·981	4·987	4·993	4·999	5·005	5·012	5·018	7
8	5·671	5·678	5·685	5·692	5·699	5·706	5·713	5·720	5·727	5·734	8
9	6·380	6·388	6·396	6·404	6·412	6·420	6·428	6·435	6·443	6·451	9
10	7·089	7·098	7·107	7·115	7·124	7·133	7·142	7·150	7·159	7·168	10

Távol- ság	31°										Távol- ság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0·617	0·618	0·618	0·619	0·620	0·621	0·622	0·622	0·623	0·624	1
2	1·234	1·235	1·237	1·238	1·240	1·242	1·243	1·245	1·247	1·248	2
3	1·850	1·853	1·855	1·858	1·860	1·862	1·865	1·867	1·868	1·872	3
4	2·467	2·470	2·474	2·477	2·480	2·483	2·487	2·490	2·493	2·496	4
5	3·084	3·088	3·092	3·096	3·100	3·104	3·108	3·112	3·116	3·120	5
6	3·701	3·706	3·711	3·715	3·720	3·725	3·730	3·735	3·740	3·744	6
7	4·318	4·323	4·329	4·335	4·340	4·346	4·351	4·357	4·363	4·368	7
8	4·934	4·941	4·947	4·954	4·960	4·967	4·973	4·980	4·986	4·992	8
9	5·551	5·558	5·566	5·573	5·580	5·587	5·595	5·602	5·609	5·617	9
10	6·168	6·176	6·184	6·192	6·200	6·208	6·216	6·224	6·232	6·241	10
32°											
1	0·641	0·642	0·643	0·644	0·644	0·645	0·646	0·647	0·648	0·649	1
2	1·282	1·284	1·286	1·287	1·289	1·291	1·292	1·294	1·295	1·297	2
3	1·924	1·926	1·928	1·931	1·933	1·936	1·938	1·941	1·943	1·946	3
4	2·565	2·568	2·571	2·575	2·578	2·581	2·584	2·588	2·591	2·594	4
5	3·206	3·210	3·214	3·218	3·222	3·226	3·231	3·235	3·239	3·243	5
6	3·847	3·852	3·857	3·862	3·867	3·872	3·877	3·882	3·886	3·891	6
7	4·488	4·494	4·500	4·504	4·511	4·517	4·523	4·529	4·534	4·540	7
8	5·129	5·136	5·142	5·148	5·156	5·162	5·169	5·175	5·182	5·189	8
9	5·771	5·778	5·785	5·792	5·800	5·808	5·815	5·822	5·830	5·837	9
10	6·412	6·420	6·428	6·436	6·445	6·453	6·461	6·469	6·477	6·486	10
33°											
1	0·666	0·667	0·668	0·669	0·669	0·670	0·671	0·672	0·673	0·674	1
2	1·332	1·334	1·336	1·337	1·339	1·341	1·342	1·344	1·346	1·347	2
3	1·998	2·001	2·003	2·006	2·008	2·011	2·013	2·016	2·018	2·021	3
4	2·664	2·668	2·671	2·674	2·678	2·681	2·685	2·688	2·691	2·695	4
5	3·330	3·335	3·339	3·343	3·347	3·351	3·356	3·360	3·364	3·368	5
6	3·996	4·002	4·007	4·012	4·017	4·022	4·027	4·032	4·037	4·042	6
7	4·663	4·668	4·674	4·680	4·686	4·692	4·698	4·704	4·710	4·716	7
8	5·329	5·335	5·342	5·349	5·356	5·362	5·369	5·376	5·383	5·389	8
9	5·995	6·002	6·010	6·017	6·025	6·033	6·040	6·048	6·055	6·063	9
10	6·661	6·669	6·678	6·686	6·694	6·703	6·711	6·720	6·728	6·737	10
34°											
1	0·692	0·692	0·693	0·694	0·695	0·696	0·697	0·698	0·698	0·699	1
2	1·383	1·385	1·387	1·388	1·390	1·392	1·393	1·395	1·397	1·399	2
3	2·075	2·077	2·080	2·082	2·085	2·088	2·090	2·093	2·095	2·098	3
4	2·766	2·770	2·773	2·777	2·780	2·784	2·787	2·791	2·794	2·797	4
5	3·458	3·462	3·466	3·471	3·475	3·479	3·484	3·488	3·492	3·497	5
6	4·149	4·155	4·160	4·165	4·170	4·175	4·180	4·186	4·191	4·196	6
7	4·841	4·847	4·853	4·859	4·865	4·871	4·877	4·883	4·889	4·895	7
8	5·533	5·539	5·546	5·553	5·560	5·567	5·574	5·581	5·588	5·595	8
9	6·224	6·232	6·240	6·247	6·255	6·263	6·271	6·279	6·286	6·294	9
10	6·916	6·924	6·933	6·942	6·950	6·959	6·967	6·976	6·985	6·993	10
35°											
1	0·718	0·719	0·719	0·720	0·721	0·722	0·723	0·724	0·725	0·726	1
2	1·435	1·437	1·439	1·441	1·442	1·444	1·446	1·448	1·450	1·451	2
3	2·153	2·156	2·158	2·161	2·164	2·166	2·169	2·172	2·174	2·177	3
4	2·871	2·874	2·878	2·881	2·885	2·888	2·892	2·896	2·900	2·903	4
5	3·588	3·593	3·597	3·602	3·606	3·611	3·615	3·619	3·624	3·628	5
6	4·306	4·311	4·317	4·322	4·327	4·333	4·338	4·342	4·349	4·354	6
7	5·024	5·030	5·036	5·042	5·049	5·055	5·061	5·067	5·073	5·080	7
8	5·742	5·749	5·756	5·763	5·770	5·777	5·784	5·791	5·798	5·805	8
9	6·459	6·467	6·475	6·483	6·491	6·499	6·507	6·515	6·523	6·531	9
10	7·177	7·186	7·195	7·203	7·212	7·221	7·230	7·239	7·248	7·256	10

Távolság	36°										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0.727	0.727	0.728	0.729	0.730	0.731	0.732	0.733	0.734	0.735	1
2	1.453	1.455	1.457	1.458	1.460	1.462	1.464	1.466	1.467	1.469	2
3	2.180	2.182	2.185	2.188	2.190	2.193	2.196	2.198	2.201	2.204	3
4	2.906	2.910	2.913	2.917	2.920	2.924	2.928	2.931	2.934	2.938	4
5	3.633	3.637	3.642	3.646	3.651	3.655	3.659	3.664	3.668	3.673	5
6	4.359	4.365	4.370	4.375	4.381	4.386	4.391	4.397	4.402	4.407	6
7	5.086	5.092	5.098	5.104	5.111	5.117	5.123	5.129	5.136	5.142	7
8	5.812	5.819	5.827	5.834	5.841	5.848	5.855	5.862	5.869	5.877	8
9	6.539	6.547	6.555	6.563	6.571	6.579	6.587	6.595	6.603	6.611	9
10	7.265	7.274	7.283	7.292	7.301	7.310	7.319	7.328	7.337	7.346	10

37°

1	0.754	0.754	0.755	0.756	0.757	0.758	0.759	0.760	0.761	0.762	1
2	1.507	1.509	1.511	1.513	1.514	1.516	1.518	1.520	1.522	1.524	2
3	2.261	2.263	2.266	2.269	2.272	2.274	2.277	2.280	2.283	2.285	3
4	3.014	3.018	3.022	3.025	3.029	3.032	3.036	3.040	3.044	3.047	4
5	3.768	3.772	3.777	3.781	3.786	3.791	3.795	3.800	3.804	3.809	5
6	4.521	4.527	4.532	4.538	4.543	4.549	4.554	4.560	4.565	4.571	6
7	5.275	5.281	5.288	5.294	5.300	5.307	5.313	5.320	5.326	5.333	7
8	6.028	6.036	6.043	6.050	6.058	6.065	6.072	6.080	6.087	6.094	8
9	6.782	6.790	6.798	6.807	6.815	6.823	6.831	6.840	6.848	6.856	9
10	7.535	7.545	7.554	7.563	7.572	7.581	7.590	7.600	7.609	7.618	10

38°

1	0.781	0.782	0.783	0.784	0.785	0.786	0.787	0.788	0.789	0.790	1
2	1.562	1.564	1.566	1.568	1.570	1.572	1.574	1.576	1.578	1.579	2
3	2.344	2.347	2.349	2.352	2.355	2.358	2.361	2.364	2.366	2.369	3
4	3.125	3.129	3.133	3.136	3.140	3.144	3.148	3.151	3.155	3.159	4
5	3.906	3.911	3.916	3.921	3.925	3.930	3.935	3.939	3.944	3.949	5
6	4.688	4.693	4.699	4.705	4.710	4.716	4.722	4.727	4.733	4.738	6
7	5.469	5.476	5.482	5.489	5.495	5.502	5.508	5.515	5.522	5.528	7
8	6.250	6.258	6.265	6.273	6.280	6.288	6.295	6.303	6.310	6.318	8
9	7.032	7.040	7.048	7.057	7.065	7.074	7.082	7.091	7.099	7.108	9
10	7.813	7.822	7.832	7.841	7.850	7.860	7.869	7.879	7.888	7.897	10

39°

1	0.810	0.811	0.812	0.813	0.814	0.815	0.816	0.817	0.818	0.818	1
2	1.620	1.622	1.623	1.625	1.627	1.629	1.631	1.633	1.635	1.637	2
3	2.429	2.432	2.435	2.438	2.441	2.444	2.447	2.450	2.453	2.455	3
4	3.239	3.243	3.247	3.251	3.255	3.258	3.262	3.266	3.271	3.274	4
5	4.050	4.054	4.059	4.063	4.068	4.073	4.078	4.083	4.088	4.092	5
6	4.859	4.864	4.870	4.876	4.882	4.888	4.893	4.899	4.905	4.911	6
7	5.668	5.675	5.682	5.689	5.695	5.702	5.709	5.716	5.723	5.729	7
8	6.478	6.486	6.494	6.501	6.509	6.517	6.524	6.532	6.540	6.548	8
9	7.288	7.297	7.305	7.314	7.323	7.331	7.340	7.349	7.358	7.366	9
10	8.098	8.107	8.117	8.127	8.136	8.146	8.156	8.165	8.175	8.185	10

40°

1	0.839	0.840	0.841	0.842	0.843	0.844	0.845	0.846	0.847	0.848	1
2	1.678	1.680	1.682	1.684	1.686	1.688	1.690	1.692	1.694	1.696	2
3	2.517	2.520	2.523	2.526	2.529	2.532	2.535	2.538	2.541	2.544	3
4	3.356	3.360	3.364	3.368	3.372	3.376	3.380	3.384	3.388	3.392	4
5	4.196	4.200	4.205	4.210	4.215	4.220	4.225	4.230	4.235	4.240	5
6	5.035	5.041	5.046	5.052	5.058	5.064	5.070	5.076	5.082	5.088	6
7	5.874	5.881	5.888	5.895	5.901	5.908	5.916	5.922	5.929	5.935	7
8	6.713	6.721	6.729	6.737	6.745	6.753	6.761	6.768	6.776	6.784	8
9	7.552	7.561	7.570	7.579	7.588	7.597	7.606	7.615	7.624	7.633	9
10	8.391	8.401	8.411	8.421	8.431	8.441	8.451	8.461	8.471	8.481	10

Távolság	36 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.735	0.736	0.737	0.738	0.739	0.740	0.741	0.742	0.743	0.744	1
2	1.471	1.473	1.475	1.476	1.478	1.480	1.482	1.484	1.485	1.487	2
3	2.206	2.209	2.212	2.214	2.217	2.220	2.223	2.225	2.228	2.231	3
4	2.942	2.945	2.949	2.953	2.956	2.960	2.963	2.967	2.971	2.974	4
5	3.677	3.682	3.686	3.691	3.695	3.700	3.704	3.709	3.713	3.718	5
6	4.413	4.418	4.424	4.429	4.434	4.440	4.445	4.451	4.456	4.461	6
7	5.148	5.155	5.161	5.167	5.173	5.180	5.186	5.192	5.199	5.205	7
8	5.884	5.891	5.898	5.905	5.912	5.920	5.927	5.934	5.941	5.949	8
9	6.619	6.627	6.635	6.643	6.652	6.660	6.668	6.676	6.684	6.692	9
10	7.355	7.364	7.373	7.382	7.391	7.400	7.409	7.418	7.424	7.436	10

37⁰

1	0.763	0.764	0.765	0.765	0.766	0.767	0.768	0.769	0.770	0.771	1
2	1.525	1.527	1.529	1.531	1.533	1.535	1.536	1.538	1.540	1.542	2
3	2.288	2.291	2.294	2.296	2.300	2.302	2.305	2.308	2.310	2.313	3
4	3.051	3.055	3.058	3.062	3.066	3.069	3.073	3.077	3.080	3.084	4
5	3.814	3.818	3.823	3.827	3.832	3.837	3.841	3.846	3.851	3.855	5
6	4.576	4.582	4.587	4.593	4.598	4.604	4.609	4.615	4.621	4.626	6
7	5.339	5.345	5.352	5.358	5.365	5.371	5.378	5.384	5.391	5.397	7
8	6.102	6.109	6.116	6.124	6.131	6.139	6.146	6.153	6.161	6.168	8
9	6.864	6.873	6.881	6.889	6.898	6.906	6.914	6.923	6.931	6.939	9
10	7.627	7.636	7.646	7.655	7.664	7.673	6.682	7.692	7.701	7.710	10

38⁰

1	0.791	0.792	0.793	0.794	0.794	0.795	0.796	0.797	0.798	0.799	1
2	1.581	1.583	1.585	1.587	1.589	1.591	1.593	1.595	1.597	1.598	2
3	2.372	2.375	2.378	2.381	2.383	2.386	2.389	2.392	2.395	2.398	3
4	3.163	3.167	3.170	3.174	3.178	3.182	3.186	3.189	3.193	3.197	4
5	3.954	3.958	3.963	3.968	3.972	3.977	3.982	3.987	3.991	3.996	5
6	4.744	4.750	4.756	4.761	4.767	4.773	4.778	4.784	4.790	4.795	6
7	5.535	5.541	5.548	5.555	5.561	5.568	5.575	5.581	5.588	5.595	7
8	6.326	6.333	6.341	6.348	6.356	6.364	6.371	6.379	6.386	6.394	8
9	7.116	7.125	7.133	7.142	7.150	7.159	7.168	7.176	7.185	7.193	9
10	7.907	7.916	7.926	7.935	7.945	7.954	7.964	7.973	7.983	7.992	10

39⁰

1	0.819	0.820	0.821	0.822	0.823	0.824	0.825	0.826	0.827	0.828	1
2	1.639	1.641	1.643	1.645	1.647	1.649	1.651	1.653	1.655	1.656	2
3	2.458	2.461	2.464	2.467	2.470	2.473	2.476	2.479	2.482	2.485	3
4	3.278	3.282	3.286	3.290	3.293	3.297	3.301	3.305	3.309	3.313	4
5	4.097	4.102	4.107	4.112	4.117	4.122	4.127	4.131	4.136	4.141	5
6	4.917	4.923	4.928	4.934	4.940	4.946	4.952	4.958	4.964	4.969	6
7	5.736	5.743	5.750	5.757	5.764	5.770	5.777	5.784	5.791	5.798	7
8	6.556	6.564	6.571	6.579	6.587	6.595	6.602	6.610	6.618	6.626	8
9	7.375	7.384	7.393	7.401	7.410	7.419	7.428	7.437	7.445	7.454	9
10	8.195	8.204	8.214	8.224	8.234	8.243	8.253	8.263	8.273	8.282	10

40⁰

1	0.849	0.850	0.851	0.852	0.853	0.854	0.855	0.856	0.857	0.858	1
2	1.698	1.700	1.702	1.704	1.706	1.708	1.710	1.712	1.714	1.716	2
3	2.547	2.550	2.553	2.556	2.559	2.562	2.565	2.568	2.571	2.574	3
4	3.396	3.400	3.404	3.408	3.412	3.416	3.420	3.424	3.428	3.432	4
5	4.245	4.250	4.255	4.260	4.265	4.270	4.275	4.281	4.286	4.291	5
6	5.094	5.100	5.106	5.112	5.118	5.124	5.131	5.137	5.143	5.149	6
7	5.943	5.950	5.957	5.964	5.972	5.979	5.986	5.993	6.000	6.007	7
8	6.792	6.800	6.809	6.817	6.825	6.833	6.841	6.849	6.857	6.865	8
9	7.642	7.651	7.660	7.669	7.678	7.687	7.696	7.705	7.714	7.723	9
10	8.491	8.501	8.511	8.521	8.531	8.541	8.551	8.561	8.571	8.581	10

Távolság	36°										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0.744	0.745	0.746	0.747	0.748	0.749	0.750	0.751	0.752	0.753	1
2	1.489	1.491	1.493	1.494	1.496	1.498	1.500	1.502	1.503	1.505	2
3	2.233	2.236	2.239	2.242	2.244	2.247	2.250	2.252	2.255	2.258	3
4	2.978	2.982	2.985	2.989	2.992	2.996	3.000	3.003	3.007	3.011	4
5	3.722	3.727	3.731	3.736	3.741	3.745	3.750	3.754	3.759	3.763	5
6	4.467	4.472	4.478	4.483	4.489	4.494	4.499	4.505	4.510	4.516	6
7	5.211	5.218	5.224	5.230	5.237	5.243	5.249	5.256	5.262	5.268	7
8	5.956	5.963	5.970	5.978	5.985	5.992	5.999	6.007	6.014	6.021	8
9	6.700	6.708	6.717	6.725	6.733	6.741	6.749	6.757	6.766	6.774	9
10	7.445	7.454	7.463	7.472	7.481	7.490	7.499	7.508	7.517	7.526	10

37°											
1	0.772	0.773	0.774	0.775	0.776	0.777	0.778	0.778	0.779	0.780	1
2	1.544	1.546	1.548	1.549	1.551	1.553	1.555	1.557	1.559	1.561	2
3	2.316	2.319	2.321	2.324	2.327	2.330	2.333	2.335	2.338	2.341	3
4	3.088	3.092	3.095	3.099	3.103	3.106	3.110	3.113	3.118	3.121	4
5	3.860	3.864	3.869	3.874	3.878	3.883	3.888	3.892	3.897	3.902	5
6	4.632	4.637	4.643	4.648	4.654	4.660	4.665	4.671	4.676	4.682	6
7	5.404	5.410	5.417	5.423	5.430	5.436	5.443	5.449	5.456	5.462	7
8	6.176	6.183	6.191	6.198	6.205	6.213	6.220	6.228	6.235	6.243	8
9	6.948	6.956	6.964	6.973	6.981	6.989	6.998	7.006	7.015	7.023	9
10	7.720	7.729	7.738	7.747	7.757	7.766	7.775	7.785	7.794	7.803	10

38°											
1	0.800	0.801	0.802	0.803	0.804	0.805	0.806	0.807	0.808	0.809	1
2	1.600	1.602	1.604	1.606	1.608	1.610	1.612	1.614	1.616	1.618	2
3	2.401	2.403	2.406	2.409	2.412	2.415	2.418	2.421	2.424	2.426	3
4	3.201	3.205	3.208	3.212	3.216	3.220	3.224	3.228	3.231	3.235	4
5	4.001	4.006	4.011	4.015	4.020	4.024	4.030	4.035	4.039	4.044	5
6	4.801	4.807	4.813	4.818	4.824	4.830	4.836	4.841	4.847	4.853	6
7	5.601	5.608	5.615	5.621	5.628	5.635	5.642	5.648	5.655	5.662	7
8	6.402	6.409	6.417	6.424	6.432	6.440	6.448	6.455	6.463	6.471	8
9	7.202	7.210	7.219	7.228	7.236	7.245	7.253	7.262	7.271	7.279	9
10	8.002	8.011	8.021	8.031	8.040	8.050	8.059	8.069	8.079	8.088	10

39°											
1	0.829	0.830	0.831	0.832	0.833	0.834	0.835	0.836	0.837	0.838	1
2	1.658	1.660	1.662	1.664	1.666	1.668	1.670	1.672	1.674	1.676	2
3	2.488	2.491	2.494	2.497	2.500	2.502	2.505	2.508	2.511	2.514	3
4	3.317	3.321	3.325	3.329	3.333	3.337	3.341	3.345	3.348	3.352	4
5	4.146	4.151	4.156	4.161	4.166	4.171	4.176	4.181	4.186	4.191	5
6	4.975	4.981	4.987	4.993	4.999	5.005	5.011	5.017	5.023	5.029	6
7	5.805	5.812	5.818	5.825	5.832	5.839	5.846	5.853	5.860	5.867	7
8	6.634	6.642	6.650	6.657	6.665	6.673	6.681	6.689	6.697	6.705	8
9	7.463	7.472	7.481	7.490	7.498	7.507	7.516	7.525	7.534	7.543	9
10	8.292	8.302	8.312	8.322	8.332	8.341	8.351	8.361	8.371	8.381	10

40°											
1	0.859	0.860	0.861	0.862	0.863	0.864	0.865	0.866	0.867	0.868	1
2	1.718	1.720	1.722	1.724	1.726	1.728	1.730	1.732	1.734	1.737	2
3	2.577	2.580	2.583	2.586	2.590	2.593	2.596	2.599	2.602	2.605	3
4	3.436	3.441	3.445	3.449	3.453	3.457	3.461	3.465	3.469	3.473	4
5	4.296	4.301	4.306	4.311	4.316	4.321	4.326	4.331	4.336	4.341	5
6	5.155	5.161	5.167	5.173	5.179	5.185	5.191	5.197	5.203	5.210	6
7	6.014	6.021	6.028	6.035	6.042	6.049	6.056	6.064	6.071	6.078	7
8	6.873	6.881	6.889	6.897	6.905	6.914	6.922	6.930	6.938	6.946	8
9	7.732	7.741	7.750	7.759	7.769	7.778	7.787	7.796	7.805	7.814	9
10	8.591	8.601	8.611	8.622	8.632	8.642	8.652	8.662	8.672	8.683	10

Távolság	41°										Távolság
	0'	2'	4'	6'	8'	10'	12'	14'	16'	18'	
1	0·869	0·870	0·871	0·872	0·873	0·874	0·875	0·876	0·877	0·879	1
2	1·739	1·741	1·743	1·745	1·747	1·749	1·751	1·753	1·755	1·757	2
3	2·608	2·611	2·614	2·617	2·620	2·623	2·626	2·629	2·632	2·636	3
4	3·477	3·481	3·485	3·489	3·494	3·498	3·502	3·506	3·510	3·514	4
5	4·346	4·352	4·357	4·362	4·367	4·372	4·377	4·382	4·387	1·393	5
6	5·216	5·222	5·228	5·234	5·240	5·246	5·253	5·259	5·265	5·271	6
7	6·085	6·092	6·099	6·107	6·114	6·121	6·128	6·135	6·142	6·150	7
8	6·954	6·962	6·971	6·979	6·987	6·995	7·003	7·012	7·020	7·029	8
9	7·824	7·833	7·842	7·851	7·860	7·870	7·879	7·888	7·897	7·907	9
10	8·693	8·703	8·713	8·724	8·734	8·744	8·754	8·765	8·775	8·786	10
42°											
1	0·900	0·901	0·903	0·904	0·905	0·906	0·907	0·908	0·909	0·910	1
2	1·801	1·803	1·805	1·807	1·809	1·811	1·814	1·816	1·818	1·820	2
3	2·701	2·704	2·708	2·711	2·714	2·717	2·720	2·723	2·727	2·730	3
4	3·602	3·606	3·610	3·614	3·619	3·623	3·627	3·631	3·635	3·640	4
5	4·502	4·507	4·513	4·518	4·523	4·528	4·534	4·539	4·544	4·550	5
6	5·402	5·409	5·415	5·421	5·428	5·434	5·440	5·447	5·453	5·460	6
7	6·303	6·310	6·318	6·325	6·332	6·340	6·347	6·355	6·362	6·370	7
8	7·203	7·212	7·220	7·229	7·237	7·246	7·254	7·262	7·271	7·279	8
9	8·104	8·113	8·123	8·132	8·142	8·151	8·161	8·170	8·180	8·189	9
10	9·004	9·015	9·025	9·036	9·046	9·057	9·067	9·078	9·089	9·099	10
43°											
1	0·933	0·934	0·935	0·936	0·937	0·938	0·939	0·940	0·941	0·942	1
2	1·865	1·867	1·869	1·872	1·874	1·876	1·878	1·880	1·882	1·885	2
3	2·798	2·801	2·804	2·807	2·811	2·814	2·817	2·820	2·824	2·827	3
4	3·730	3·734	3·739	3·743	3·748	3·752	3·756	3·761	3·765	3·769	4
5	4·663	4·668	4·673	4·679	4·684	4·690	4·695	4·701	4·706	4·712	5
6	5·595	5·602	5·608	5·615	5·621	5·628	5·634	5·641	5·647	5·654	6
7	6·528	6·535	6·543	6·550	6·558	6·566	6·573	6·581	6·589	6·596	7
8	7·460	7·469	7·478	7·486	7·495	7·504	7·512	7·521	7·530	7·539	8
9	8·393	8·402	8·412	8·422	8·432	8·442	8·452	8·461	8·471	8·481	9
10	9·325	9·336	9·347	9·358	9·369	9·380	9·391	9·402	9·412	9·423	10
44°											
1	0·966	0·967	0·968	0·969	0·970	0·971	0·972	0·974	0·975	0·976	1
2	1·931	1·934	1·936	1·938	1·940	1·943	1·945	1·947	1·949	1·952	2
3	2·897	2·900	2·904	2·907	2·911	2·914	2·917	2·921	2·924	2·928	3
4	3·863	3·867	3·872	3·876	3·882	3·885	3·890	3·894	3·900	3·903	4
5	4·828	4·834	4·840	4·845	4·851	4·857	4·862	4·868	4·874	4·879	5
6	5·794	5·801	5·808	5·814	5·821	5·828	5·835	5·842	5·848	5·855	6
7	6·760	6·768	6·776	6·783	6·792	6·799	6·807	6·815	6·823	6·831	7
8	7·726	7·734	7·744	7·753	7·763	7·771	7·780	7·789	7·798	7·807	8
9	8·691	8·701	8·711	8·722	8·733	8·742	8·752	8·762	8·772	8·783	9
10	9·657	9·668	9·679	9·691	9·702	9·713	9·725	9·736	9·747	9·759	10
45°											
1	1·000	1·001	1·002	1·004	1·005	1·006	1·007	1·008	1·009	1·011	1
2	2·000	2·002	2·005	2·007	2·009	2·012	2·014	2·016	2·019	2·021	2
3	3·000	3·004	3·007	3·011	3·014	3·017	3·021	3·025	3·028	3·032	3
4	4·000	4·005	4·009	4·014	4·018	4·023	4·028	4·033	4·038	4·042	4
5	5·000	5·006	5·012	5·018	5·023	5·029	5·035	5·041	5·047	5·053	5
6	6·000	6·007	6·014	6·021	6·028	6·035	6·042	6·049	6·056	6·063	6
7	7·000	7·008	7·016	7·025	7·032	7·041	7·049	7·057	7·066	7·074	7
8	8·000	8·010	8·018	8·028	8·037	8·046	8·056	8·066	8·075	8·084	8
9	9·000	9·011	9·021	9·032	9·041	9·052	9·063	9·074	9·085	9·095	9
10	10·000	10·012	10·023	10·035	10·046	10·058	10·070	10·082	10·094	10·105	10

Távolság	41 ⁰										Távolság
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	
1	0.880	0.881	0.882	0.883	0.884	0.885	0.886	0.887	0.888	0.889	1
2	1.759	1.761	1.763	1.765	1.767	1.769	1.772	1.774	1.776	1.778	2
3	2.639	2.642	2.645	2.648	2.651	2.654	2.657	2.660	2.664	2.667	3
4	3.518	3.522	3.526	3.531	3.535	3.539	3.543	3.547	3.551	3.556	4
5	4.398	4.403	4.408	4.413	4.418	4.424	4.429	4.434	4.439	4.444	5
6	5.277	5.284	5.290	5.296	5.302	5.308	5.315	5.321	5.327	5.333	6
7	6.157	6.164	6.171	6.179	6.186	6.193	6.200	6.208	6.215	6.222	7
8	7.036	7.045	7.053	7.061	7.070	7.078	7.086	7.094	7.103	7.111	8
9	7.916	7.925	7.935	7.944	7.953	7.962	7.972	7.981	7.991	8.000	9
10	8.796	8.806	8.816	8.826	8.837	8.847	8.858	8.868	8.878	8.889	10
42 ⁰											
1	0.911	0.912	0.913	0.914	0.915	0.916	0.917	0.918	0.920	0.921	1
2	1.822	1.824	1.826	1.828	1.831	1.833	1.835	1.837	1.839	1.841	2
3	2.733	2.736	2.739	2.743	2.746	2.749	2.752	2.755	2.759	2.762	3
4	3.644	3.648	3.653	3.657	3.661	3.665	3.670	3.674	3.678	3.682	4
5	4.555	4.560	4.566	4.571	4.576	4.582	4.587	4.592	4.598	4.603	5
6	5.466	5.472	5.479	5.485	5.492	5.498	5.504	5.511	5.517	5.524	6
7	6.377	6.384	6.392	6.399	6.407	6.414	6.422	6.429	6.437	6.444	7
8	7.288	7.296	7.305	7.314	7.322	7.331	7.339	7.348	7.356	7.365	8
9	8.199	8.209	8.218	8.228	8.237	8.247	8.257	8.266	8.276	8.286	9
10	9.110	9.121	9.131	9.142	9.153	9.163	9.174	9.185	9.195	9.206	10
43 ⁰											
1	0.943	0.945	0.946	0.947	0.948	0.949	0.950	0.951	0.952	0.953	1
2	1.887	1.889	1.891	1.894	1.896	1.898	1.900	1.902	1.905	1.907	2
3	2.830	2.834	2.837	2.840	2.844	2.847	2.850	2.854	2.857	2.860	3
4	3.774	3.778	3.783	3.787	3.791	3.796	3.800	3.805	3.809	3.814	4
5	4.717	4.723	4.728	4.734	4.739	4.745	4.750	4.756	4.761	4.767	5
6	5.661	5.667	5.674	5.680	5.687	5.694	5.700	5.707	5.714	5.720	6
7	6.604	6.612	6.620	6.627	6.635	6.643	6.650	6.658	6.666	6.674	7
8	7.548	7.556	7.565	7.574	7.583	7.592	7.601	7.609	7.618	7.627	8
9	8.491	8.501	8.511	8.521	8.531	8.541	8.551	8.561	8.571	8.581	9
10	9.435	9.445	9.456	9.467	9.479	9.490	9.501	9.512	9.523	9.534	10
44 ⁰											
1	0.977	0.978	0.979	0.980	0.982	0.983	0.984	0.985	0.986	0.987	1
2	1.954	1.956	1.959	1.961	1.963	1.965	1.968	1.970	1.972	1.975	2
3	2.931	2.934	2.938	2.941	2.945	2.948	2.952	2.955	2.958	2.962	3
4	3.908	3.913	3.917	3.922	3.926	3.931	3.935	3.940	3.945	3.949	4
5	4.885	4.891	4.896	4.902	4.908	4.914	4.919	4.925	4.931	4.936	5
6	5.862	5.869	5.876	5.882	5.889	5.896	5.903	5.910	5.917	5.924	6
7	6.839	6.847	6.855	6.863	6.871	6.879	6.887	6.895	6.903	6.911	7
8	7.816	7.825	7.834	7.843	7.852	7.862	7.871	7.880	7.889	7.898	8
9	8.793	8.803	8.813	8.824	8.834	8.844	8.855	8.865	8.875	8.886	9
10	9.770	9.781	9.793	9.804	9.815	9.827	9.838	9.850	9.861	9.873	10
45 ⁰											
1	1.012	1.013	1.014	1.015	1.016	1.018	1.019	1.020	1.021	1.022	1
2	2.023	2.026	2.028	2.030	2.033	2.035	2.038	2.040	2.042	2.045	2
3	3.035	3.039	3.042	3.046	3.049	3.053	3.056	3.060	3.064	3.067	3
4	4.047	4.052	4.056	4.061	4.066	4.070	4.075	4.080	4.085	4.090	4
5	5.059	5.065	5.071	5.076	5.082	5.088	5.094	5.100	5.106	5.112	5
6	6.070	6.077	6.085	6.091	6.098	6.106	6.113	6.120	6.127	6.134	6
7	7.082	7.090	7.099	7.106	7.115	7.123	7.132	7.140	7.148	7.157	7
8	8.094	8.103	8.113	8.122	8.131	8.141	8.150	8.160	8.170	8.179	8
9	9.105	9.116	9.127	9.137	9.148	9.158	9.169	9.180	9.191	9.202	9
10	10.117	10.129	10.141	10.152	10.164	10.176	10.188	10.200	10.212	10.224	10

Távolság	41°										Távolság
	40'	42'	44'	46'	48'	50'	52'	54'	56'	58'	
1	0.890	0.891	0.892	0.893	0.894	0.895	0.896	0.897	0.898	0.899	1
2	1.780	1.782	1.784	1.786	1.788	1.790	1.792	1.794	1.797	1.799	2
3	2.670	2.673	2.676	2.679	2.682	2.685	2.689	2.692	2.695	2.698	3
4	3.560	3.564	3.568	3.572	3.576	3.581	3.585	3.589	3.593	3.597	4
5	4.450	4.455	4.460	4.465	4.471	4.476	4.481	4.486	4.492	4.497	5
6	5.340	5.346	5.352	5.358	5.365	5.371	5.377	5.383	5.390	5.396	6
7	6.229	6.237	6.244	6.251	6.259	6.266	6.273	6.281	6.288	6.295	7
8	7.119	7.128	7.136	7.144	7.153	7.161	7.170	7.178	7.186	7.195	8
9	8.009	8.019	8.028	8.038	8.047	8.056	8.066	8.075	8.085	8.094	9
10	8.899	8.910	8.920	8.931	8.941	8.952	8.962	8.972	8.983	8.993	10
42°											
1	0.922	0.923	0.924	0.925	0.926	0.927	0.928	0.929	0.930	0.931	1
3	1.843	1.846	1.848	1.850	1.852	1.854	1.856	1.859	1.861	1.863	2
3	2.765	2.768	2.772	2.775	2.778	2.781	2.785	2.788	2.791	2.794	3
4	3.687	3.691	3.695	3.700	3.704	3.708	3.713	3.717	3.721	3.726	4
5	4.609	4.614	4.619	4.625	4.630	4.635	4.641	4.646	4.652	4.657	5
6	5.530	5.537	5.543	5.550	5.556	5.563	5.569	5.576	5.582	5.589	6
7	6.452	6.459	6.467	6.475	6.482	6.490	6.497	6.505	6.512	6.520	7
8	7.374	7.382	7.391	7.399	7.408	7.417	7.425	7.434	7.443	7.451	8
9	8.295	8.305	8.315	8.324	8.334	8.344	8.354	8.363	8.373	8.383	9
10	9.217	9.228	9.238	9.249	9.260	9.271	9.282	9.293	9.303	9.314	10
43°											
1	0.955	0.956	0.957	0.958	0.959	0.960	0.961	0.962	0.963	0.965	1
2	1.909	1.911	1.913	1.916	1.918	1.920	1.922	1.925	1.927	1.929	2
3	2.864	2.867	2.870	2.874	2.877	2.880	2.884	2.887	2.890	2.894	3
4	3.818	3.822	3.827	3.831	3.836	3.840	3.845	3.849	3.854	3.858	4
5	4.773	4.778	4.784	4.789	4.795	4.800	4.806	4.812	4.817	4.823	5
6	5.727	5.734	5.740	5.747	5.754	5.760	5.767	5.774	5.781	5.787	6
7	6.682	6.689	6.697	6.705	6.713	6.721	6.728	6.736	6.744	6.752	7
8	7.636	7.645	7.654	7.663	7.672	7.681	7.690	7.699	7.708	7.716	8
9	8.591	8.601	8.611	8.621	8.631	8.641	8.651	8.661	8.671	8.681	9
10	9.545	9.556	9.567	9.578	9.590	9.601	9.612	9.623	9.634	9.646	10
44°											
1	0.988	0.990	0.991	0.992	0.993	0.994	0.995	0.997	0.998	0.998	1
2	1.977	1.979	1.981	1.984	1.986	1.988	1.991	1.993	1.995	1.998	2
3	2.965	2.969	2.972	2.976	2.979	2.983	2.986	2.990	2.993	2.997	3
4	3.954	3.958	3.963	3.968	3.972	3.977	3.981	3.986	3.991	3.995	4
5	4.942	4.948	4.954	4.959	4.965	4.971	4.977	4.983	4.988	4.994	5
6	5.931	5.937	5.944	5.951	5.958	5.965	5.972	5.979	5.986	5.993	6
7	6.919	6.927	6.935	6.943	6.951	6.959	6.968	6.976	6.984	6.992	7
8	7.907	7.917	7.926	7.935	7.944	7.954	7.963	7.972	7.981	7.991	8
9	8.896	8.906	8.917	8.927	8.937	8.948	8.958	8.969	8.979	8.990	9
10	9.884	9.896	9.907	9.919	9.930	9.942	9.954	9.965	9.977	9.988	10
45°											
1	1.024	1.025	1.026	1.027	1.028	1.030	1.031	1.032	1.033	1.034	1
2	2.047	2.049	2.052	2.054	2.057	2.059	2.061	2.064	2.066	2.069	2
3	3.071	3.074	3.078	3.081	3.085	3.089	3.092	3.096	3.099	3.103	3
4	4.094	4.099	4.104	4.108	4.113	4.118	4.123	4.128	4.132	4.137	4
5	5.118	5.124	5.130	5.136	5.142	5.148	5.154	5.160	5.166	5.172	5
6	6.141	6.148	6.155	6.163	6.170	6.177	6.184	6.191	6.199	6.206	6
7	7.165	7.173	7.181	7.190	7.198	7.207	7.215	7.223	7.232	7.240	7
8	8.188	8.198	8.207	8.217	8.226	8.236	8.246	8.255	8.265	8.274	8
9	9.212	9.222	9.233	9.244	9.255	9.266	9.276	9.287	9.298	9.309	9
10	10.235	10.247	10.259	10.271	10.283	10.295	10.307	10.319	10.331	10.343	10

Táblázat a rétegek metszőpontjainak meghatározására.

Réteg- köz	A t a l a j n a k										Réteg- köz
	1	2	3	4	5	6	7	8	9	10	
méter	foknyi lejtőszögénél a rétegek metszőpontjai közötti vízszintes távols. m.-ben										méter
1	57·3	28·6	19·1	14·3	11·4	9·5	8·1	7·1	6·3	5·7	1
2	114·6	57·3	38·2	28·6	22·9	19·0	16·3	14·2	12·6	11·3	2
3	171·9	85·9	57·2	42·9	34·3	28·5	24·4	21·3	18·9	17·0	3
4	229·2	114·5	76·3	57·2	45·7	38·1	32·6	28·5	25·3	22·7	4
5	286·4	143·2	95·4	71·5	57·1	47·6	40·7	35·6	31·6	28·4	5
6	343·7	171·8	114·5	85·8	68·6	57·1	48·9	42·7	37·9	34·0	6
7	401·0	200·5	133·6	100·1	80·0	66·6	57·0	49·8	44·2	39·7	7
8	458·3	229·1	152·6	114·4	91·4	76·1	65·2	56·9	50·5	45·4	8
9	515·6	257·7	171·7	128·7	102·9	85·6	73·3	64·0	56·8	51·0	9
10	572·9	286·4	190·8	143·0	114·3	95·1	81·4	71·2	63·1	56·7	10
11	630·2	315·0	209·9	157·3	125·7	104·7	89·6	78·3	69·4	62·4	11
12	687·5	343·6	229·0	171·6	137·2	114·2	97·7	85·4	75·8	68·0	12
13	744·8	372·3	248·1	185·9	148·6	123·7	105·9	92·5	82·1	73·7	13
14	802·1	400·9	267·1	200·2	160·0	133·2	114·0	99·6	88·4	79·4	14
15	859·3	429·6	286·2	214·5	171·4	142·7	122·2	106·7	94·7	85·1	15
16	916·6	458·2	305·3	228·8	182·9	152·2	130·3	113·8	101·0	90·7	16
17	973·9	486·8	324·4	243·1	194·3	161·7	138·4	121·0	107·3	96·4	17
18	1031·2	515·5	343·5	257·4	205·7	171·3	146·6	128·1	113·6	102·1	18
19	1088·5	544·1	362·5	271·7	217·2	180·8	154·7	135·2	120·0	107·7	19
20	1145·8	572·7	381·6	286·0	228·6	190·3	162·9	142·3	126·3	113·4	20

Táblázat a rétegek metszőpontjainak meghatározására.

Réteg- köz	A t a l a j n a k												Réteg- köz
	11	12	13	14	15	16	17	18	19	20	21	22	
méter	foknyi lejtőszögénél a rétegek metszőpontjai közötti vízszintes távols. m.-ben												méter
1	5·1	4·7	4·3	4·0	3·7	3·5	3·3	3·1	2·9	2·7	2·6	2·5	1
2	10·3	9·4	8·7	8·0	7·5	7·0	6·5	6·2	5·8	5·5	5·2	4·9	2
3	15·4	14·1	13·0	12·0	11·2	10·5	9·8	9·2	8·7	8·2	7·8	7·4	3
4	20·6	18·8	17·3	16·0	14·9	13·9	13·1	12·3	11·6	11·0	10·4	9·9	4
5	25·7	23·5	21·7	20·1	18·7	17·4	16·4	15·4	14·5	13·7	13·0	12·4	5
6	30·9	28·2	26·0	24·1	22·4	20·9	19·6	18·5	17·4	16·5	15·6	14·8	6
7	36·0	32·9	30·3	28·1	26·1	24·4	22·9	21·5	20·3	19·2	18·2	17·3	7
8	41·2	37·6	34·7	32·1	29·9	27·9	26·2	24·6	23·2	22·0	20·8	19·8	8
9	46·3	42·3	39·0	36·1	33·6	31·4	29·4	27·7	26·1	24·7	23·4	22·3	9
10	51·4	47·0	43·3	40·1	37·3	34·9	32·7	30·8	29·0	27·5	26·0	24·7	10
11	56·6	51·8	47·6	44·1	41·1	38·4	36·0	33·9	31·9	30·2	28·7	27·2	11
12	61·7	56·5	52·0	48·1	44·8	41·9	39·3	36·9	34·8	33·0	31·3	29·7	12
13	66·9	61·2	56·3	52·1	48·5	45·3	42·5	40·0	37·8	35·7	33·9	32·2	13
14	72·0	65·9	60·6	56·2	52·3	48·8	45·8	43·1	40·7	38·5	36·5	34·6	14
15	77·2	70·6	65·0	60·2	56·0	52·3	49·1	46·2	43·6	41·2	39·1	37·1	15
16	82·3	75·3	69·3	64·2	59·7	55·8	52·3	49·2	46·5	44·0	41·7	39·6	16
17	87·5	80·0	73·6	68·2	63·4	59·3	55·6	52·3	49·4	46·7	44·3	42·1	17
18	92·6	84·7	78·0	72·2	67·2	62·8	58·9	55·4	52·3	49·4	46·9	44·5	18
19	97·8	89·4	82·3	76·2	70·9	66·3	62·1	58·5	55·2	52·2	49·5	47·0	19
20	102·9	94·1	86·6	80·2	74·6	69·8	65·4	61·6	58·1	54·9	52·1	49·5	20

Táblázat a rétegek metszõpontjainak meghatározására.

Réteg- köz	A t a l a j n a k											Réteg- köz
	23	24	25	26	27	28	29	30	31	32	33	
méter	foknyi lejtözögénél a rétegek metszõpontjai közötti vízszintes távols. m.-ben											méter
1	2·4	2·2	2·1	2·0	2·0	1·9	1·8	1·7	1·7	1·6	1·5	1
2	4·7	4·5	4·3	4·1	3·9	3·8	3·6	3·5	3·3	3·2	3·1	2
3	7·1	6·7	6·4	6·1	5·9	5·6	5·4	5·2	5·0	4·8	4·6	3
4	9·4	9·0	8·6	8·2	7·9	7·5	7·2	6·9	6·7	6·4	6·2	4
5	11·8	11·2	10·7	10·2	9·8	9·4	9·0	8·7	8·3	8·0	7·7	5
6	14·1	13·5	12·9	12·3	11·8	11·3	10·8	10·4	10·0	9·6	9·2	6
7	16·5	15·7	15·0	14·3	13·7	13·2	12·6	12·1	11·6	11·2	10·8	7
8	18·8	18·0	17·2	16·4	15·7	15·0	14·4	13·9	13·3	12·8	12·3	8
9	21·2	20·2	19·3	18·4	17·7	16·9	16·2	15·6	15·0	14·4	13·9	9
10	23·6	22·5	21·4	20·5	19·6	18·8	18·0	17·3	16·6	16·0	15·4	10
11	25·9	24·7	23·6	22·5	21·6	20·7	19·8	19·1	18·3	17·6	16·9	11
12	28·3	27·0	25·7	24·6	23·6	22·6	21·6	20·8	20·0	19·2	18·5	12
13	30·6	29·2	27·9	26·6	25·5	24·5	23·5	22·5	21·6	20·8	20·0	13
14	33·0	31·4	30·0	28·7	27·5	26·3	25·3	24·2	23·3	22·4	21·6	14
15	35·3	33·7	32·2	30·7	29·4	28·2	27·1	26·0	25·0	24·0	23·1	15
16	37·7	35·9	34·3	32·8	31·4	30·1	28·9	27·7	26·6	25·6	24·6	16
17	40·1	38·2	36·5	34·8	33·4	32·0	30·7	29·4	28·3	27·2	26·2	17
18	42·4	40·4	38·6	36·9	35·3	33·9	32·5	31·2	30·0	28·8	27·7	18
19	44·8	42·7	40·8	38·9	37·3	35·7	34·3	32·9	31·6	30·4	29·3	19
20	47·1	44·9	42·9	41·0	39·3	37·6	36·1	34·6	33·3	32·0	30·8	20

Táblázat a rétegek metszőpontjainak meghatározására.

Réteg- köz	A t a l a j n a k												Réteg- köz
	34	35	36	37	38	39	40	41	42	43	44	45	
méter	foknyi lejtőszögénél a rétegek metszőpontjai közötti vízszintes távols. m.-ben												méter
1	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1
2	3.0	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.1	2.1	2.0	2
3	4.4	4.3	4.1	4.0	3.8	3.7	3.6	3.4	3.3	3.2	3.1	3.0	3
4	5.9	5.7	5.5	5.3	5.1	4.9	4.8	4.6	4.4	4.3	4.1	4.0	4
5	7.4	7.1	6.9	6.6	6.4	6.2	6.0	5.7	5.6	5.4	5.2	5.0	5
6	8.9	8.6	8.3	8.0	7.7	7.4	7.2	6.9	6.7	6.4	6.2	6.0	6
7	10.4	10.0	9.6	9.3	9.0	8.6	8.3	8.0	7.8	7.5	7.3	7.0	7
8	11.9	11.4	11.0	10.6	10.2	9.9	9.5	9.2	8.9	8.6	8.3	8.0	8
9	13.3	12.9	12.4	11.9	11.5	11.1	10.7	10.3	10.0	9.6	9.3	9.0	9
10	14.8	14.3	13.8	13.3	12.8	12.3	11.9	11.5	11.1	10.7	10.4	10.0	10
11	16.3	15.7	15.1	14.6	14.1	13.6	13.1	12.6	12.2	11.8	11.4	11.0	11
12	17.8	17.1	16.5	15.9	15.4	14.8	14.3	13.8	13.3	12.9	12.4	12.0	12
13	19.3	18.6	17.9	17.3	16.6	16.1	15.5	15.0	14.4	13.9	13.5	13.0	13
14	20.8	20.0	19.3	18.6	17.9	17.3	16.7	16.1	15.6	15.0	14.5	14.0	14
15	22.2	21.4	20.6	19.9	19.2	18.5	17.9	17.2	16.7	16.1	15.5	15.0	15
16	23.7	22.8	22.0	21.2	20.5	19.8	19.1	18.4	17.8	17.2	16.6	16.0	16
17	25.2	24.3	23.4	22.6	21.8	21.0	20.3	19.5	18.9	18.2	17.6	17.0	17
18	26.7	25.7	24.8	23.9	23.0	22.2	21.5	20.7	20.0	19.3	18.6	18.0	18
19	28.2	27.1	26.1	25.2	24.3	23.5	22.6	21.8	21.1	20.4	19.7	19.0	19
20	29.7	28.6	27.5	26.5	25.6	24.7	23.8	23.0	22.2	21.4	20.7	20.0	20



