

TABLA DE CUERDAS. Radio = 1.

	58°	59°	60°	61°	62°	63°	64°	65°	
0'	.9696	.9848	1.0000	1.0151	1.0301	1.0450	1.0598	1.0746	0'
1	.9699	.9851	1.0003	1.0153	1.0303	1.0452	1.0601	1.0748	1
2	.9701	.9854	1.0005	1.0156	1.0306	1.0455	1.0603	1.0751	2
3	.9704	.9856	1.0008	1.0158	1.0308	1.0457	1.0606	1.0753	3
4	.9706	.9859	1.0010	1.0161	1.0311	1.0460	1.0608	1.0756	4
5	.9709	.9861	1.0013	1.0163	1.0313	1.0462	1.0611	1.0758	5
6	.9711	.9864	1.0015	1.0166	1.0316	1.0465	1.0613	1.0761	6
7	.9714	.9866	1.0018	1.0168	1.0318	1.0467	1.0616	1.0763	7
8	.9717	.9869	1.0020	1.0171	1.0321	1.0470	1.0618	1.0766	8
9	.9719	.9871	1.0023	1.0173	1.0323	1.0572	1.0621	1.0768	9
10	.9722	.9874	1.0025	1.0176	1.0326	1.0475	1.0623	1.0771	10
11	.9724	.9876	1.0028	1.0178	1.0328	1.0477	1.0626	1.0773	11
12	.9727	.9879	1.0030	1.0181	1.0331	1.0480	1.0628	1.0775	12
13	.9729	.9881	1.0033	1.0183	1.0333	1.0482	1.0630	1.0778	13
14	.9732	.9884	1.0035	1.0186	1.0336	1.0485	1.0633	1.0780	14
15	.9734	.9886	1.0038	1.0188	1.0338	1.0487	1.0635	1.0783	15
16	.9737	.9889	1.0040	1.0191	1.0341	1.0490	1.0638	1.0785	16
17	.9739	.9891	1.0043	1.0193	1.0343	1.0492	1.0640	1.0788	17
18	.9742	.9894	1.0045	1.0196	1.0346	1.0495	1.0643	1.0790	18
19	.9744	.9897	1.0048	1.0198	1.0348	1.0497	1.0645	1.0793	19
20	.9747	.9899	1.0050	1.0201	1.0351	1.0500	1.0648	1.0795	20
21	.9750	.9902	1.0053	1.0203	1.0353	1.0502	1.0650	1.0797	21
22	.9752	.9904	1.0055	1.0206	1.0356	1.0504	1.0653	1.0800	22
23	.9755	.9907	1.0058	1.0208	1.0358	1.0507	1.0655	1.0802	23
24	.9757	.9909	1.0060	1.0211	1.0361	1.0509	1.0658	1.0805	24
25	.9760	.9912	1.0063	1.0213	1.0363	1.0512	1.0660	1.0807	25
26	.9762	.9914	1.0065	1.0216	1.0366	1.0514	1.0662	1.0810	26
27	.9765	.9917	1.0068	1.0218	1.0368	1.0517	1.0665	1.0812	27
28	.9767	.9919	1.0070	1.0221	1.0370	1.0519	1.0667	1.0815	28
29	.9770	.9922	1.0073	1.0223	1.0373	1.0522	1.0670	1.0817	29
30	.9772	.9924	1.0075	1.0226	1.0375	1.0524	1.0672	1.0820	30

TABLA DE CUERDAS. Radio = 1.

	58°	59°	60°	61°	62°	63°	64°	65°	
31'	.9775	.9927	1.0078	1.0228	1.0378	1.0527	1.0675	1.0822	31'
32	.9778	.9929	1.0080	1.0231	1.0380	1.0529	1.0677	1.0824	32
33	.9780	.9932	1.0083	1.0233	1.0383	1.0532	1.0680	1.0827	33
34	.9783	.9934	1.0086	1.0236	1.0385	1.0534	1.0682	1.0829	34
35	.9785	.9937	1.0088	1.0238	1.0388	1.0537	1.0685	1.0832	35
36	.9788	.9939	1.0091	1.0241	1.0390	1.0539	1.0687	1.0834	36
37	.9790	.9942	1.0093	1.0243	1.0393	1.0542	1.0690	1.0837	37
38	.9793	.9945	1.0096	1.0246	1.0395	1.0544	1.0692	1.0839	38
39	.9795	.9947	1.0098	1.0248	1.0398	1.0547	1.0694	1.0841	39
40	.9798	.9950	1.0101	1.0251	1.0400	1.0549	1.0697	1.0844	40
41	.9800	.9952	1.0103	1.0253	1.0403	1.0551	1.0699	1.0846	41
42	.9803	.9955	1.0106	1.0256	1.0405	1.0554	1.0702	1.0849	42
43	.9805	.9957	1.0108	1.0258	1.0408	1.0556	1.0704	1.0851	43
44	.9808	.9960	1.0111	1.0261	1.0410	1.0559	1.0707	1.0854	44
45	.9810	.9962	1.0113	1.0263	1.0413	1.0561	1.0709	1.0856	45
46	.9813	.9965	1.0116	1.0266	1.0415	1.0564	1.0712	1.0859	46
47	.9816	.9967	1.0118	1.0268	1.0418	1.0566	1.0714	1.0861	47
48	.9818	.9970	1.0121	1.0271	1.0420	1.0569	1.0717	1.0863	48
49	.9821	.9972	1.0123	1.0273	1.0423	1.0571	1.0719	1.0866	49
50	.9823	.9975	1.0126	1.0276	1.0425	1.0574	1.0721	1.0868	50
51	.9826	.9977	1.0128	1.0278	1.0428	1.0576	1.0724	1.0871	51
52	.9828	.9980	1.0131	1.0281	1.0430	1.0579	1.0726	1.0873	52
53	.9831	.9982	1.0133	1.0283	1.0433	1.0581	1.0729	1.0876	53
54	.9833	.9985	1.0136	1.0286	1.0435	1.0584	1.0731	1.0878	54
55	.9836	.9987	1.0138	1.0288	1.0438	1.0586	1.0734	1.0881	55
56	.9838	.9990	1.0141	1.0291	1.0440	1.0589	1.0736	1.0883	56
57	.9841	.9992	1.0143	1.0293	1.0443	1.0591	1.0739	1.0885	57
58	.9843	.9995	1.0146	1.0296	1.0445	1.0593	1.0741	1.0888	58
59	.9846	.9998	1.0148	1.0298	1.0447	1.0596	1.0744	1.0890	59
60	.9848	1.0000	1.0151	1.0301	1.0450	1.0598	1.0746	1.0893	60

TABLA DE CUERDAS. Radio = 1.

	66°	67°	68°	69°	70°	71°	72°	73°	
0'	1.0893	1.1039	1.1184	1.1328	1.1472	1.1614	1.1756	1.1896	0'
1	1.0895	1.1041	1.1186	1.1331	1.1474	1.1616	1.1758	1.1899	1
2	1.0898	1.1044	1.1189	1.1333	1.1476	1.1619	1.1760	1.1901	2
3	1.0900	1.1046	1.1191	1.1335	1.1479	1.1621	1.1763	1.1903	3
4	1.0903	1.1048	1.1194	1.1338	1.1481	1.1624	1.1765	1.1906	4
5	1.0905	1.1051	1.1196	1.1340	1.1483	1.1626	1.1767	1.1908	5
6	1.0907	1.1053	1.1198	1.1342	1.1486	1.1628	1.1770	1.1910	6
7	1.0910	1.1056	1.1201	1.1345	1.1488	1.1631	1.1772	1.1913	7
8	1.0912	1.1058	1.1203	1.1347	1.1491	1.1633	1.1775	1.1915	8
9	1.0915	1.1061	1.1206	1.1350	1.1493	1.1635	1.1777	1.1917	9
10	1.0917	1.1063	1.1208	1.1352	1.1495	1.1638	1.1779	1.1920	10
11	1.0920	1.1065	1.1210	1.1354	1.1498	1.1640	1.1782	1.1922	11
12	1.0922	1.1068	1.1213	1.1357	1.1500	1.1642	1.1784	1.1924	12
13	1.0924	1.1070	1.1215	1.1359	1.1502	1.1645	1.1786	1.1927	13
14	1.0927	1.1073	1.1218	1.1362	1.1505	1.1647	1.1789	1.1929	14
15	1.0929	1.1075	1.1220	1.1364	1.1507	1.1650	1.1791	1.1931	15
16	1.0932	1.1078	1.1222	1.1366	1.1510	1.1652	1.1793	1.1934	16
17	1.0934	1.1080	1.1225	1.1369	1.1512	1.1654	1.1796	1.1936	17
18	1.0937	1.1082	1.1227	1.1371	1.1514	1.1657	1.1798	1.1938	18
19	1.0939	1.1085	1.1230	1.1374	1.1517	1.1659	1.1800	1.1941	19
20	1.0942	1.1087	1.1232	1.1376	1.1519	1.1661	1.1803	1.1943	20
21	1.0944	1.1090	1.1234	1.1378	1.1522	1.1664	1.1805	1.1946	21
22	1.0946	1.1092	1.1237	1.1381	1.1524	1.1666	1.1807	1.1948	22
23	1.0949	1.1094	1.1239	1.1383	1.1526	1.1668	1.1810	1.1950	23
24	1.0951	1.1097	1.1242	1.1386	1.1529	1.1671	1.1812	1.1952	24
25	1.0954	1.1099	1.1244	1.1388	1.1531	1.1673	1.1814	1.1955	25
26	1.0956	1.1102	1.1246	1.1390	1.1533	1.1676	1.1817	1.1957	26
27	1.0959	1.1104	1.1249	1.1393	1.1536	1.1678	1.1819	1.1959	27
28	1.0961	1.1107	1.1251	1.1395	1.1538	1.1680	1.1821	1.1962	28
29	1.0963	1.1109	1.1254	1.1398	1.1541	1.1683	1.1824	1.1964	29
30	1.0966	1.1111	1.1256	1.1400	1.1543	1.1685	1.1826	1.1966	30

TABLA DE CUERDAS. Radio = 1.

	66°	67°	68°	69°	70°	71°	72°	73°	
31'	1.0968	1.1114	1.1258	1.1402	1.1545	1.1687	1.1829	1.1969	31'
32	1.0971	1.1116	1.1261	1.1405	1.1548	1.1690	1.1831	1.1971	32
33	1.0973	1.1119	1.1263	1.1407	1.1550	1.1692	1.1833	1.1973	33
34	1.0976	1.1121	1.1266	1.1409	1.1552	1.1694	1.1836	1.1976	34
35	1.0978	1.1123	1.1268	1.1412	1.1555	1.1697	1.1838	1.1978	35
36	1.0980	1.1126	1.1271	1.1414	1.1557	1.1699	1.1840	1.1980	36
37	1.0983	1.1128	1.1273	1.1417	1.1560	1.1702	1.1843	1.1983	37
38	1.0985	1.1131	1.1275	1.1419	1.1562	1.1704	1.1845	1.1985	38
39	1.0988	1.1133	1.1278	1.1421	1.1564	1.1706	1.1847	1.1987	39
40	1.0990	1.1136	1.1280	1.1424	1.1567	1.1709	1.1850	1.1990	40
41	1.0993	1.1138	1.1283	1.1426	1.1569	1.1711	1.1852	1.1992	41
42	1.0995	1.1140	1.1285	1.1429	1.1571	1.1713	1.1854	1.1994	42
43	1.0997	1.1143	1.1287	1.1431	1.1574	1.1716	1.1857	1.1997	43
44	1.1000	1.1145	1.1290	1.1433	1.1576	1.1718	1.1859	1.1999	44
45	1.1002	1.1148	1.1292	1.1436	1.1579	1.1720	1.1861	1.2001	45
46	1.1005	1.1150	1.1295	1.1438	1.1581	1.1723	1.1864	1.2004	46
47	1.1007	1.1152	1.1297	1.1441	1.1583	1.1725	1.1866	1.2006	47
48	1.1010	1.1155	1.1299	1.1443	1.1586	1.1727	1.1868	1.2008	48
49	1.1012	1.1157	1.1302	1.1445	1.1588	1.1730	1.1871	1.2011	49
50	1.1014	1.1160	1.1304	1.1448	1.1590	1.1732	1.1873	1.2013	50
51	1.1017	1.1162	1.1307	1.1450	1.1593	1.1735	1.1875	1.2015	51
52	1.1019	1.1165	1.1309	1.1452	1.1595	1.1737	1.1878	1.2018	52
53	1.1022	1.1167	1.1311	1.1455	1.1598	1.1739	1.1880	1.2020	53
54	1.1024	1.1169	1.1314	1.1457	1.1600	1.1742	1.1882	1.2022	54
55	1.1027	1.1172	1.1316	1.1460	1.1602	1.1744	1.1885	1.2025	55
56	1.1029	1.1174	1.1319	1.1462	1.1605	1.1746	1.1887	1.2027	56
57	1.1031	1.1177	1.1321	1.1464	1.1607	1.1749	1.1889	1.2029	57
58	1.1034	1.1179	1.1323	1.1467	1.1609	1.1751	1.1892	1.2032	58
59	1.1036	1.1181	1.1326	1.1469	1.1612	1.1753	1.1894	1.2034	59
60	1.1039	1.1184	1.1328	1.1472	1.1614	1.1756	1.1896	1.2036	60

TABLA DE CUERDAS. Radio = 1.

	74°	75°	76°	77°	78°	79°	80°	81°	
0'	1.2036	1.2175	1.2313	1.2450	1.2586	1.2722	1.2856	1.2989	0'
1	1.2039	1.2178	1.2316	1.2453	1.2589	1.2724	1.2858	1.2991	1
2	1.2041	1.2180	1.2318	1.2455	1.2591	1.2726	1.2860	1.2993	2
3	1.2043	1.2182	1.2320	1.2457	1.2593	1.2728	1.2862	1.2996	3
4	1.2046	1.2184	1.2322	1.2459	1.2595	1.2731	1.2865	1.2998	4
5	1.2048	1.2187	1.2325	1.2462	1.2598	1.2733	1.2867	1.3000	5
6	1.2050	1.2189	1.1327	1.2464	1.2600	1.2735	1.2869	1.3002	6
7	1.2053	1.2191	1.2329	1.2466	1.2602	1.2737	1.2871	1.3004	7
8	1.2055	1.2194	1.2332	1.2468	1.2604	1.2740	1.2874	1.3007	8
9	1.2057	1.2196	1.2334	1.2471	1.2607	1.2742	1.2876	1.3009	9
10	1.2060	1.2198	1.2336	1.2473	1.2609	1.2744	1.2878	1.3011	10
11	1.2062	1.2201	1.2338	1.2475	1.2611	1.2746	1.2880	1.3013	11
12	1.2064	1.2203	1.2341	1.2478	1.2614	1.2748	1.2882	1.3015	12
13	1.2066	1.2205	1.2343	1.2480	1.2616	1.2751	1.2885	1.3018	13
14	1.2069	1.2208	1.2345	1.2482	1.2618	1.2753	1.2887	1.3020	14
15	1.2071	1.2210	1.2348	1.2484	1.2620	1.2755	1.2889	1.3022	15
16	1.2073	1.2212	1.2350	1.2487	1.2623	1.2757	1.2891	1.3024	16
17	1.2076	1.2214	1.2352	1.2489	1.2625	1.2760	1.2894	1.3027	17
18	1.2078	1.2217	1.2354	1.2491	1.2627	1.2762	1.2896	1.3029	18
19	1.2080	1.2219	1.2357	1.2493	1.2629	1.2764	1.2898	1.3031	19
20	1.2083	1.2221	1.2359	1.2496	1.2632	1.2766	1.2900	1.3033	20
21	1.2085	1.2224	1.2361	1.2498	1.2634	1.2769	1.2903	1.3035	21
22	1.2087	1.2226	1.2364	1.2500	1.2636	1.2771	1.2905	1.3038	22
23	1.2090	1.2228	1.2366	1.2503	1.2638	1.2773	1.2907	1.3040	23
24	1.2092	1.2231	1.2368	1.2505	1.2641	1.2775	1.2909	1.3042	24
25	1.2094	1.2233	1.2370	1.2507	1.2643	1.2778	1.2911	1.3044	25
26	1.2097	1.2235	1.2373	1.2509	1.2645	1.2780	1.2914	1.3046	26
27	1.2099	1.2237	1.2375	1.2512	1.2648	1.2782	1.2916	1.3049	27
28	1.2101	1.2240	1.2377	1.2514	1.2650	1.2784	1.2918	1.3051	28
29	1.2104	1.2242	1.2380	1.2516	1.2652	1.2787	1.2920	1.3053	29
30	1.2106	1.2244	1.2382	1.2518	1.2654	1.2789	1.2922	1.3055	30

TABLA DE CUERDAS. Radio = 1.

	74°	75°	76°	77°	78°	79°	80°	81°	
31'	1.2108	1.2247	1.2384	1.2521	1.2656	1.2791	1.2925	1.3057	31'
32	1.2111	1.2249	1.2386	1.2523	1.2659	1.2793	1.2927	1.3060	32
33	1.2113	1.2251	1.2389	1.2525	1.2661	1.2795	1.2929	1.3062	33
34	1.2115	1.2254	1.2391	1.2528	1.2663	1.2798	1.2931	1.3064	34
35	1.2117	1.2256	1.2393	1.2530	1.2665	1.2800	1.2934	1.3066	35
36	1.2120	1.2258	1.2396	1.2532	1.2668	1.2802	1.2936	1.3068	36
37	1.2122	1.2260	1.2398	1.2534	1.2670	1.2804	1.2938	1.3071	37
38	1.2124	1.2263	1.2400	1.2537	1.2672	1.2807	1.2940	1.3073	38
39	1.2127	1.2265	1.2402	1.2539	1.2674	1.2809	1.2942	1.3075	39
40	1.2129	1.2267	1.2405	1.2541	1.2677	1.2811	1.2945	1.3077	40
41	1.2131	1.2270	1.2407	1.2543	1.2679	1.2813	1.2947	1.3079	41
42	1.2134	1.2272	1.2409	1.2546	1.2681	1.2816	1.2949	1.3082	42
43	1.2136	1.2274	1.2412	1.2548	1.2683	1.2818	1.2951	1.3084	43
44	1.2138	1.2277	1.2414	1.2550	1.2686	1.2820	1.2954	1.3086	44
45	1.2141	1.2279	1.2416	1.2552	1.2688	1.2822	1.2956	1.3088	45
46	1.2143	1.2281	1.2418	1.2555	1.2690	1.2825	1.2958	1.3090	46
47	1.2145	1.2283	1.2421	1.2557	1.2692	1.2827	1.2960	1.3093	47
48	1.2148	1.2286	1.2423	1.2559	1.2695	1.2829	1.2962	1.3095	48
49	1.2150	1.2288	1.2425	1.2562	1.2697	1.2831	1.2965	1.3097	49
50	1.2152	1.2290	1.2428	1.2564	1.2699	1.2833	1.2967	1.3099	50
51	1.2154	1.2293	1.2430	1.2566	1.2701	1.2836	1.2969	1.3101	51
52	1.2157	1.2295	1.2432	1.2568	1.2704	1.2838	1.2971	1.3104	52
53	1.2159	1.2297	1.2434	1.2571	1.2706	1.2840	1.2973	1.3106	53
54	1.2161	1.2299	1.2437	1.2573	1.2708	1.2842	1.2976	1.3108	54
55	1.2164	1.2302	1.2439	1.2575	1.2710	1.2845	1.2978	1.3110	55
56	1.2166	1.2304	1.2441	1.2577	1.2713	1.2847	1.2980	1.3112	56
57	1.2168	1.2306	1.2443	1.2580	1.2715	1.2849	1.2982	1.3115	57
58	1.2171	1.2309	1.2446	1.2582	1.2717	1.2851	1.2985	1.3117	58
59	1.2173	1.2311	1.2448	1.2584	1.2719	1.2854	1.2987	1.3119	59
60	1.2175	1.2313	1.2450	1.2586	1.2722	1.2856	1.2989	1.3121	60

TABLA DE CUERDAS. Radio = 1.

	82°	83°	84°	85°	86°	87°	88°	89°	
0'	1.3121	1.3252	1.3383	1.3512	1.3640	1.3767	1.3893	1.4018	0'
1	1.3123	1.3255	1.3385	1.3514	1.3642	1.3769	1.3895	1.4020	1
2	1.3126	1.3257	1.3387	1.3516	1.3644	1.3771	1.3897	1.4022	2
3	1.3128	1.3259	1.3389	1.3518	1.3646	1.3773	1.3899	1.4024	3
4	1.3130	1.3261	1.3391	1.3520	1.3648	1.3776	1.3902	1.4026	4
5	1.3132	1.3263	1.3393	1.3523	1.3651	1.3778	1.3904	1.4029	5
6	1.3134	1.3265	1.3396	1.3525	1.3653	1.3780	1.3906	1.4031	6
7	1.3137	1.3268	1.3398	1.3527	1.3655	1.3782	1.3908	1.4033	7
8	1.3139	1.3270	1.3400	1.3529	1.3657	1.3784	1.3910	1.4035	8
9	1.3141	1.3272	1.3402	1.3531	1.3659	1.3786	1.3912	1.4037	9
10	1.3143	1.3274	1.3404	1.3533	1.3661	1.3788	1.3914	1.4039	10
11	1.3145	1.3276	1.3406	1.3535	1.3663	1.3790	1.3916	1.4041	11
12	1.3147	1.3279	1.3409	1.3538	1.3665	1.3792	1.3918	1.4043	12
13	1.3150	1.3281	1.3411	1.3540	1.3668	1.3794	1.3920	1.4045	13
14	1.3152	1.3283	1.3413	1.3542	1.3670	1.3797	1.3922	1.4047	14
15	1.3154	1.3285	1.3415	1.3544	1.3672	1.3799	1.3925	1.4049	15
16	1.3156	1.3287	1.3417	1.3546	1.3674	1.3801	1.3927	1.4051	16
17	1.3158	1.3289	1.3419	1.3548	1.3676	1.3803	1.3929	1.4053	17
18	1.3161	1.3292	1.3421	1.3550	1.3678	1.3805	1.3931	1.4055	18
19	1.3163	1.3294	1.3424	1.3552	1.3680	1.3807	1.3933	1.4058	19
20	1.3165	1.3296	1.3426	1.3555	1.3682	1.3809	1.3935	1.4060	20
21	1.3167	1.3298	1.3428	1.3557	1.3685	1.3811	1.3937	1.4062	21
22	1.3169	1.3300	1.3430	1.3559	1.3687	1.3813	1.3939	1.4064	22
23	1.3172	1.3302	1.3432	1.3561	1.3689	1.3816	1.3941	1.4066	23
24	1.3174	1.3305	1.3434	1.3563	1.3691	1.3818	1.3943	1.4068	24
25	1.3176	1.3307	1.3437	1.3565	1.3693	1.3820	1.3945	1.4070	25
26	1.3178	1.3309	1.3439	1.3567	1.3695	1.3822	1.3947	1.4072	26
27	1.3180	1.3311	1.3441	1.3570	1.3697	1.3824	1.3950	1.4074	27
28	1.3183	1.3313	1.3443	1.3572	1.3699	1.3826	1.3952	1.4076	28
29	1.3185	1.3315	1.3445	1.3574	1.3702	1.3828	1.3954	1.4078	29
30	1.3187	1.3318	1.3447	1.3576	1.3704	1.3830	1.3956	1.4080	30

TABLA DE CUERDAS. Radio = 1.

	82°	83°	84°	85°	86°	87°	88°	89°	
31'	1.3189	1.3320	1.3449	1.3578	1.3706	1.3832	1.3958	1.4082	31'
32	1.3191	1.3322	1.3452	1.3580	1.3708	1.3834	1.3960	1.4084	32
33	1.3193	1.3324	1.3454	1.3582	1.3710	1.3837	1.3962	1.4086	33
34	1.3196	1.3326	1.3456	1.3585	1.3712	1.3839	1.3964	1.4089	34
35	1.3198	1.3328	1.3458	1.3587	1.3714	1.3841	1.3966	1.4091	35
36	1.3200	1.3331	1.3460	1.3589	1.3716	1.3843	1.3968	1.4093	36
37	1.3202	1.3333	1.3462	1.3591	1.3718	1.3845	1.3970	1.4095	37
38	1.3204	1.3335	1.3465	1.3593	1.3721	1.3847	1.3972	1.4097	38
39	1.3207	1.3337	1.3467	1.3595	1.3723	1.3849	1.3975	1.4099	39
40	1.3209	1.3339	1.3469	1.3597	1.3725	1.3851	1.3977	1.4101	40
41	1.3211	1.3341	1.3471	1.3599	1.3727	1.3853	1.3979	1.4103	41
42	1.3213	1.3344	1.3473	1.3602	1.3729	1.3855	1.3981	1.4105	42
43	1.3215	1.3346	1.3475	1.3604	1.3731	1.3858	1.3983	1.4107	43
44	1.3218	1.3348	1.3477	1.3606	1.3733	1.3860	1.3985	1.4109	44
45	1.3220	1.3350	1.3480	1.3608	1.3735	1.3862	1.3987	1.4111	45
46	1.3222	1.3352	1.3482	1.3610	1.3738	1.3864	1.3989	1.4113	46
47	1.3224	1.3354	1.3484	1.3612	1.3740	1.3866	1.3991	1.4115	47
48	1.3226	1.3357	1.3486	1.3614	1.3742	1.3868	1.3993	1.4117	48
49	1.3228	1.3359	1.3488	1.3617	1.3744	1.3870	1.3995	1.4119	49
50	1.3231	1.3361	1.3490	1.3619	1.3746	1.3872	1.3997	1.4122	50
51	1.3233	1.3363	1.3492	1.3621	1.3748	1.3874	1.3999	1.4124	51
52	1.3235	1.3365	1.3495	1.3623	1.3750	1.3876	1.4002	1.4126	52
53	1.3237	1.3367	1.3497	1.3625	1.3752	1.3879	1.4004	1.4128	53
54	1.3239	1.3370	1.3499	1.3627	1.3754	1.3881	1.4006	1.4130	54
55	1.3242	1.3372	1.3501	1.3629	1.3757	1.3883	1.4008	1.4132	55
56	1.3244	1.3374	1.3503	1.3631	1.3759	1.3885	1.4010	1.4134	56
57	1.3246	1.3376	1.3505	1.3634	1.3761	1.3887	1.4012	1.4136	57
58	1.3248	1.3378	1.3508	1.3636	1.3763	1.3889	1.4014	1.4138	58
59	1.3250	1.3380	1.3510	1.3638	1.3765	1.3891	1.4016	1.4140	59
60	1.3252	1.3383	1.3512	1.3640	1.3767	1.3893	1.4018	1.4142	60

TABLA DE COORDENADAS.

Minutos.	Distancia.	0°		1°		2°		Distancia.	Minutos.
		y	x	y	x	y	x		
0'	1	1.00000	0.00000	0.99984	0.01745	0.99939	0.03490	1	60'
	2	2.00000	0.00000	1.99969	0.03490	1.99878	0.06980	2	
	3	3.00000	0.00000	2.99954	0.05235	2.99817	0.10470	3	
	4	4.00000	0.00000	3.99939	0.06980	3.99756	0.13960	4	
	5	5.00000	0.00000	4.99923	0.08726	4.99695	0.17450	5	
	6	6.00000	0.00000	5.99908	0.10471	5.99634	0.20940	6	
	7	7.00000	0.00000	6.99893	0.12216	6.99573	0.24430	7	
	8	8.00000	0.00000	7.99878	0.13961	7.99512	0.27920	8	
	9	9.00000	0.00000	8.99862	0.15707	8.99451	0.31410	9	
15'	1	0.99999	0.00436	0.99976	0.02181	0.99922	0.03925	1	45'
	2	1.99998	0.00872	1.99952	0.04363	1.99845	0.07851	2	
	3	2.99997	0.01308	2.99928	0.06544	2.99768	0.11777	3	
	4	3.99996	0.01745	3.99904	0.08725	3.99691	0.15703	4	
	5	4.99995	0.02181	4.99881	0.10907	4.99614	0.19629	5	
	6	5.99994	0.02617	5.99857	0.13089	5.99537	0.23555	6	
	7	6.99993	0.03054	6.99833	0.15270	6.99460	0.27481	7	
	8	7.99992	0.03490	7.99809	0.17452	7.99383	0.31407	8	
	9	8.99991	0.03926	8.99785	0.19633	8.99306	0.35333	9	
30'	1	0.99996	0.00872	0.99965	0.02617	0.99904	0.04361	1	30'
	2	1.99992	0.01745	1.99931	0.05235	1.99809	0.08723	2	
	3	2.99988	0.02617	2.99897	0.07853	2.99714	0.13085	3	
	4	3.99984	0.03490	3.99862	0.10470	3.99619	0.17447	4	
	5	4.99981	0.04363	4.99828	0.13088	4.99524	0.21809	5	
	6	5.99977	0.05235	5.99794	0.15706	5.99428	0.26171	6	
	7	6.99973	0.06108	6.99760	0.18323	6.99333	0.30533	7	
	8	7.99969	0.06981	7.99725	0.20941	7.99238	0.34895	8	
	9	8.99965	0.07853	8.99691	0.23559	8.99143	0.39257	9	
45'	1	0.99991	0.01308	0.99953	0.03053	0.99884	0.04797	1	15'
	2	1.99982	0.02617	1.99906	0.06107	1.99769	0.09595	2	
	3	2.99974	0.03926	2.99860	0.09161	2.99654	0.14393	3	
	4	3.99965	0.05235	4.99813	0.12215	3.99539	0.19191	4	
	5	4.99957	0.06544	4.99766	0.15269	4.99424	0.23939	5	
	6	5.99948	0.07853	5.99720	0.18323	5.99309	0.28786	6	
	7	6.99940	0.09162	6.99673	0.21376	6.99193	0.33584	7	
	8	7.99931	0.10471	7.99626	0.24430	7.99078	0.38382	8	
	9	8.99922	0.11780	8.99580	0.27484	8.98963	0.43180	9	
Minutos.	Distancia.	x	y	x	y	x	y	Distancia.	Minutos.
		89°		88°		87°			

TABLA DE COORDENADAS.

Minutos.	Distancia.	3°		4°		5°		Distancia.	Minutos.
		y	x	y	x	y	x		
0'	1	0.99863	0.05233	0.99756	0.06975	0.99619	0.08715	1	60'
	2	1.99726	0.10467	1.99512	0.13951	1.99238	0.17431	2	
	3	2.99589	0.15700	2.99269	0.20926	2.98858	0.26146	3	
	4	3.99452	0.20934	3.99025	0.27902	3.98477	0.34862	4	
	5	4.99315	0.26168	4.98782	0.34878	4.98097	0.43577	5	
	6	5.99178	0.31401	5.98538	0.41853	5.97716	0.52293	6	
	7	6.99041	0.36635	6.98294	0.48829	6.97336	0.61008	7	
	8	7.98904	0.41868	7.98051	0.55805	7.96955	0.69724	8	
	9	8.98767	0.47102	8.97807	0.62780	8.96575	0.78440	9	
15'	1	0.99839	0.05669	0.99725	0.07410	0.99580	0.09150	1	45'
	2	1.99678	0.11338	1.99450	0.14821	1.99160	0.18300	2	
	3	2.99517	0.17007	2.99175	0.22232	2.98741	0.27450	3	
	4	3.99356	0.22677	3.98900	0.29643	3.98321	0.36600	4	
	5	4.99195	0.28346	4.98625	0.37054	4.97902	0.45750	5	
	6	5.99035	0.34015	5.98350	0.44465	5.97482	0.54900	6	
	7	6.98874	0.39684	6.98075	0.51875	6.97063	0.64051	7	
	8	7.98713	0.45353	7.97800	0.59286	7.96643	0.73201	8	
	9	8.98552	0.51023	8.97525	0.66697	8.96224	0.82351	9	
30'	1	0.99813	0.06104	0.99691	0.07845	0.99539	0.09584	1	30'
	2	1.99626	0.12209	1.99383	0.15691	1.99079	0.19169	2	
	3	2.99440	0.18314	2.99075	0.23537	2.98618	0.28753	3	
	4	3.99253	0.24419	3.98766	0.31383	3.98158	0.38338	4	
	5	4.99067	0.30524	4.98458	0.39229	4.97698	0.47922	5	
	6	5.98880	0.36629	5.98150	0.47075	5.97237	0.57507	6	
	7	6.98694	0.42733	6.97842	0.54921	6.96777	0.67092	7	
	8	7.98507	0.48838	7.97533	0.62767	7.96316	0.76676	8	
	9	8.98321	0.54943	8.97225	0.70613	8.95856	0.86261	9	
45'	1	0.99785	0.06540	0.99656	0.08280	0.99496	0.10018	1	15'
	2	1.99571	0.13080	1.99313	0.16561	1.98993	0.20037	2	
	3	2.99357	0.19620	2.98969	0.24842	2.98490	0.30056	3	
	4	3.99143	0.26161	3.98626	0.33123	3.97987	0.40075	4	
	5	4.98929	0.32701	4.98282	0.41404	4.97484	0.50094	5	
	6	5.98715	0.39241	5.97939	0.49684	5.96981	0.60112	6	
	7	6.98501	0.45782	6.97595	0.57965	6.96477	0.70131	7	
	8	7.98287	0.52322	7.97252	0.66246	7.95974	0.80156	8	
	9	8.98073	0.58862	8.96908	0.74527	8.95471	0.90169	9	
Minutos.	Distancia.	x	y	x	y	x	y	Distancia.	Minutos.
		86°		85°		84°			

TABLA DE COORDENADAS.

Minutos.	Distancia.	6°		7°		8°		Distancia.	Minutos.
		y	x	y	x	y	x		
0'	1	0.99452	0.10452	0.99254	0.12186	0.99026	0.13917	1	60'
	2	1.98904	0.20905	1.98509	0.24273	1.98053	0.27834	2	
	3	2.98356	0.31358	2.97763	0.36560	2.970-0	0.41751	3	
	4	3.97808	0.41811	3.97018	0.48747	3.96107	0.55669	4	
	5	4.97261	0.52264	4.96273	0.60934	4.95134	0.69586	5	
	6	5.96713	0.62717	5.95519	0.73121	5.94160	0.83503	6	
	7	6.96165	0.73169	6.94782	0.85308	6.93187	0.97421	7	
	8	7.95617	0.88622	7.94038	0.97495	7.92214	1.11338	8	
	9	8.95069	0.94075	8.93291	1.09682	8.91241	1.25255	9	
15'	1	0.99405	0.10886	0.99200	0.12619	0.98965	0.14349	1	45'
	2	1.98811	0.21773	1.98400	0.25239	1.97930	0.28698	2	
	3	2.98216	0.32660	2.97601	0.37859	2.96895	0.43047	3	
	4	3.97622	0.43546	3.96801	0.50479	3.95860	0.57897	4	
	5	4.97028	0.54433	4.96002	0.63099	4.94825	0.71746	5	
	6	5.96433	0.65320	5.95202	0.75719	5.93790	0.86095	6	
	7	6.95839	0.76206	6.94403	0.88339	6.92755	1.00444	7	
	8	7.95245	0.87093	7.93603	1.00959	7.91721	1.14794	8	
	9	8.94650	0.97980	8.92804	1.13579	8.90686	1.29143	9	
30'	1	0.99357	0.11320	0.99144	0.13052	0.98901	0.14780	1	30'
	2	1.98714	0.22640	1.98288	0.26105	1.97803	0.29561	2	
	3	2.98071	0.33960	2.97433	0.39157	2.96704	0.44842	3	
	4	3.97428	0.45281	3.96577	0.52210	3.95606	0.59123	4	
	5	4.96786	0.56601	4.95722	0.65263	4.94508	0.73904	5	
	6	5.96143	0.67921	5.94866	0.78315	5.93409	0.88685	6	
	7	6.95500	0.79242	6.94011	0.91368	6.92311	1.03466	7	
	8	7.94857	0.90562	7.93155	1.04420	7.91212	1.18247	8	
	9	8.94214	1.01882	8.92300	1.17473	8.90114	1.33028	9	
45'	1	0.99306	0.11753	0.99086	0.13485	0.98836	0.15212	1	15'
	2	1.98613	0.23507	1.98173	0.26970	1.97672	0.30424	2	
	3	2.97920	0.35261	2.97259	0.40455	2.96508	0.45637	3	
	4	3.97227	0.47014	3.96346	0.53940	3.95344	0.60349	4	
	5	4.96534	0.58768	4.95432	0.67425	4.94180	0.78061	5	
	6	5.95841	0.70522	5.94519	0.80910	5.93016	0.91274	6	
	7	6.95147	0.82276	6.93606	0.94395	6.91853	1.06486	7	
	8	7.94454	0.94029	7.92692	1.07880	7.90639	1.21698	8	
	9	8.93761	1.05783	8.91779	1.21365	8.89525	1.36911	9	
Minutos.	Distancia.	83°		82°		81°		Distancia.	Minutos.
		x	y	x	y	x	y		

TABLA DE COORDENADAS.

Minutos.	Distancia.	9°		10°		11°		Distancia.	Minutos.
		y	x	y	x	y	x		
0'	1	0.98768	0.15643	0.98480	0.17364	0.98162	0.19081	1	60'
	2	1.97537	0.31286	1.96961	0.34729	1.96325	0.38162	2	
	3	2.96306	0.46930	2.95442	0.52094	2.94488	0.57243	3	
	4	3.95075	0.62573	3.93923	0.69459	3.92650	0.76324	4	
	5	4.93844	0.78217	4.92403	0.86824	4.90813	0.95405	5	
	6	5.92612	0.93860	5.90884	1.04188	5.88976	1.14486	6	
	7	6.91381	1.09504	6.89365	1.21553	6.87139	1.33566	7	
	8	7.90150	1.25147	7.87846	1.38918	7.85301	1.52648	8	
	9	8.88919	1.40791	8.86327	1.56283	8.83464	1.71729	9	
15'	1	0.98699	0.16074	0.98404	0.17794	0.98078	0.19509	1	45'
	2	1.97399	0.32148	1.96808	0.35588	1.96157	0.39018	2	
	3	2.96098	0.48222	2.95212	0.53383	2.94235	0.58527	3	
	4	3.94798	0.64297	3.93616	0.71177	3.92314	0.78036	4	
	5	4.93498	0.80371	4.92020	0.88971	4.90392	0.97545	5	
	6	5.92197	0.96445	5.90424	1.06766	5.88471	1.17054	6	
	7	6.90897	1.12519	6.88828	1.24560	6.86549	1.36563	7	
	8	7.89597	1.28594	7.87232	1.42354	7.84628	1.56072	8	
	9	8.88296	1.44668	8.85636	1.60149	8.82706	1.75581	9	
30'	1	0.98628	0.16504	0.98325	0.18223	0.97992	0.19936	1	30'
	2	1.97257	0.33009	1.96650	0.36447	1.95934	0.39873	2	
	3	2.95885	0.49514	2.94976	0.54670	2.93977	0.59810	3	
	4	3.94514	0.66019	3.93301	0.72894	3.91969	0.79747	4	
	5	4.93142	0.82523	4.91627	0.91117	4.89962	0.99683	5	
	6	5.91771	0.99028	5.89952	1.09341	5.87954	1.19620	6	
	7	6.90399	1.15533	6.88278	1.27564	6.85947	1.39557	7	
	8	7.89028	1.32038	7.86603	1.45788	7.83939	1.59494	8	
	9	8.87657	1.48542	8.84929	1.64011	8.81932	1.79431	9	
45'	1	0.98555	0.16935	0.98245	0.18652	0.97904	0.20364	1	15'
	2	1.97111	0.33370	1.96490	0.37804	1.95809	0.40728	2	
	3	2.95666	0.50805	2.94735	0.55957	2.93713	0.61092	3	
	4	3.94222	0.67740	3.92980	0.74609	3.91618	0.81456	4	
	5	4.92778	0.84675	4.91225	0.93262	4.89522	1.01820	5	
	6	5.91333	1.01610	5.89470	1.11914	5.87427	1.22185	6	
	7	6.89889	1.18545	6.87715	1.30566	6.85331	1.42549	7	
	8	7.88444	1.35480	7.85960	1.49219	7.83236	1.62913	8	
	9	8.87000	1.52415	8.84205	1.67871	8.81140	1.83277	9	
Minutos.	Distancia.	80°		79°		78°		Distancia.	Minutos.
		x	y	x	y	x	y		

TABLA DE COORDENADAS.

Minutos.	Distancia.	12°		13°		14°		Distancia.	Minutos.
		y	x	y	x	y	x		
0'	1	0.97814	0.20791	0.97437	0.22495	0.97029	0.24192	1	60'
	2	1.95629	0.41582	1.94874	0.44990	1.94059	0.48384	2	
	3	2.93444	0.62373	2.92311	0.67485	2.91088	0.72576	3	
	4	3.91259	0.83164	3.89748	0.89980	3.88118	0.96768	4	
	5	4.89073	1.03955	4.87185	1.12475	4.85147	1.20961	5	
	6	5.86888	1.24747	5.84622	1.34970	5.82177	1.45153	6	
	7	6.84703	1.45538	6.82059	1.57465	6.79206	1.69345	7	
	8	7.82518	1.66329	7.79496	1.79960	7.76236	1.93537	8	
	9	8.80332	1.87120	8.76933	2.02455	8.73266	2.17729	9	
15'	1	0.97723	0.21217	0.97337	0.22920	0.96923	0.24615	1	45'
	2	1.95446	0.42435	1.94675	0.45840	1.93846	0.49230	2	
	3	2.93169	0.63653	2.92013	0.68760	2.90769	0.73845	3	
	4	3.90892	0.84871	3.89351	0.91680	3.87692	0.98461	4	
	5	4.88615	1.06088	4.86689	1.14600	4.84615	1.23076	5	
	6	5.86338	1.27306	5.84027	1.37520	5.81538	1.47691	6	
	7	6.84061	1.48524	6.81365	1.60440	6.78461	1.72307	7	
	8	7.81784	1.69742	7.78703	1.83360	7.75334	1.96922	8	
	9	8.79507	1.90959	8.76041	2.06280	8.72307	2.21537	9	
30'	1	0.97629	0.21644	0.97237	0.23344	0.96814	0.25038	1	30'
	2	1.95259	0.43288	1.94474	0.46689	1.93629	0.50076	2	
	3	2.92888	0.64932	2.91711	0.70033	2.90444	0.75114	3	
	4	3.90518	0.86576	3.88948	0.93378	3.87259	1.00152	4	
	5	4.88148	1.08220	4.86185	1.16722	4.84073	1.25190	5	
	6	5.85777	1.29864	5.83422	1.40067	5.80888	1.50228	6	
	7	6.83407	1.51508	6.80659	1.63411	6.77703	1.75266	7	
	8	7.81036	1.73152	7.77896	1.86756	7.74518	2.00304	8	
	9	8.78666	1.94796	8.75133	2.10100	8.71332	2.25342	9	
45'	1	0.97534	0.22069	0.97134	0.23768	0.96704	0.25460	1	15'
	2	1.95068	0.44139	1.94268	0.47537	1.93409	0.50920	2	
	3	2.92602	0.66209	2.91402	0.71305	2.90113	0.76380	3	
	4	3.90136	0.88278	3.88536	0.95074	3.86818	1.01840	4	
	5	4.87671	1.10348	4.85671	1.18843	4.83523	1.27801	5	
	6	5.85205	1.32418	5.82805	1.42611	5.80227	1.52761	6	
	7	6.82739	1.54488	6.79939	1.66380	6.76932	1.78221	7	
	8	7.80273	1.76557	7.77073	1.90148	7.73636	2.03681	8	
	9	8.77808	1.98627	8.74207	2.13917	8.70341	2.29141	9	
Minutos.	Distancia.	77°		76°		75°		Distancia.	Minutos.
		x	y	x	y	x	y		

TABLA DE COORDENADAS.

Minutos.	Distancia.	15°		16°		17°		Distancia.	Minutos.
		y	x	y	x	y	x		
0'	1	0.96592	0.25881	0.96126	0.27563	0.95630	0.29237	1	60'
	2	1.93185	0.51763	1.92252	0.55127	1.91260	0.58474	2	
	3	2.89777	0.77645	2.88378	0.82691	2.86891	0.87711	3	
	4	3.86370	1.03527	3.84504	1.10254	3.82521	1.16948	4	
	5	4.82962	1.29409	4.80630	1.37818	4.78152	1.46185	5	
	6	5.79555	1.55291	5.76757	1.65382	5.73782	1.75423	6	
	7	6.76148	1.81173	6.72888	1.92946	6.69413	2.04660	7	
	8	7.72740	2.07055	7.69009	2.20509	7.65043	2.33897	8	
	9	8.69333	2.32937	8.65135	2.48073	8.60674	2.63134	9	
15'	1	0.96478	0.26303	0.96005	0.27982	0.95502	0.29654	1	45'
	2	1.92957	0.52606	1.92010	0.55965	1.91004	0.59308	2	
	3	2.89436	0.78909	2.88015	0.83948	2.86506	0.88962	3	
	4	3.85914	1.05212	3.84020	1.11931	3.82008	1.18616	4	
	5	4.82393	1.31515	4.80025	1.39914	4.77510	1.48270	5	
	6	5.78872	1.57818	5.76030	1.67897	5.73012	1.77924	6	
	7	6.75351	1.84121	6.72035	1.95880	6.68514	2.07579	7	
	8	7.71829	2.10424	7.68040	2.23863	7.64016	2.37233	8	
	9	8.68380	2.36728	8.64045	2.51846	8.59518	2.66887	9	
30'	1	0.96363	0.26723	0.95882	0.28401	0.95371	0.30070	1	30'
	2	1.92726	0.53447	1.91764	0.56803	1.90743	0.60141	2	
	3	2.89089	0.80171	2.87646	0.85204	2.86115	0.90211	3	
	4	3.85452	1.06895	3.83528	1.13606	3.81486	1.20282	4	
	5	4.81815	1.33619	4.79410	1.42007	4.76858	1.50352	5	
	6	5.78178	1.60343	5.75292	1.70409	5.72230	1.80423	6	
	7	6.74541	1.87066	6.71174	1.98810	6.67601	2.10494	7	
	8	7.70904	2.13790	7.67056	2.27212	7.62973	2.40564	8	
	9	8.67267	2.40514	8.62938	2.55613	8.58345	2.70635	9	
45'	1	0.96245	0.27144	0.95757	0.28819	0.95239	0.30486	1	15'
	2	1.92491	0.54228	1.91514	0.57639	1.90479	0.60972	2	
	3	2.88736	0.81432	2.87271	0.86458	2.85718	0.91449	3	
	4	3.84982	1.08576	3.83028	1.15278	3.80958	1.21945	4	
	5	4.81227	1.35720	4.78785	1.44098	4.76197	1.52432	5	
	6	5.77473	1.62864	5.74542	1.72917	5.71437	1.82918	6	
	7	6.73718	1.90008	6.70299	2.01737	6.66677	2.13405	7	
	8	7.69964	2.17152	7.66057	2.30557	7.61916	2.43891	8	
	9	8.66209	2.44296	8.61814	2.59376	8.57156	2.74377	9	
Minutos.	Distancia.	74°		73°		72°		Distancia.	Minutos.
		x	y	x	y	x	y		