



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDIS24-LED48FRDMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLI-14210-2
 [TESTLAB] LightLab International (www.LightLabInt.com)
 [MANUFAC] Mobern Lighting Company
 [LUMCAT] RDIS24-LED48FRDMV40
 [MORE] Overall luminaire extents ~ 24 x 48 x 3.75". White painted multi facet reflector holds four LED strips.
 [MORE] Reflector encloses one Universal D10CC55UNVTZ-C driver. Dimmer lines O/C.
 [MORE] Tested in ceiling position at 120V 60Hz.
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 8m.
 [MORE] This IES file created by LightLab/LSA Report program version 3.804a.
 [DATE] This file created: Friday, 5 September 2014 3:33:31 PM
 [ISSUEDATE] Friday, 5 September 2014 3:33:31 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5029
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.16 m
Luminous Width (90-270)	0.55 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2596	2594	2641
55	2250	2255	2285
65	1862	1868	1875
75	1463	1487	1488
85	1071	1172	1224

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CANDELA TABULATION

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
0.0	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129
0.5	2029.424	2027.249	2022.276	2021.710	2022.886	2023.785	2023.463	2023.219	2022.109	2021.543
1.0	2028.858	2026.893	2021.721	2021.410	2022.587	2023.819	2022.587	2022.220	2021.288	2020.799
1.5	2028.281	2026.383	2021.099	2020.233	2021.565	2023.319	2021.932	2021.532	2020.589	2020.300
2.0	2027.260	2025.306	2020.300	2019.512	2020.411	2022.242	2021.221	2020.644	2019.778	2019.035
2.5	2026.050	2024.118	2019.301	2018.502	2019.656	2020.755	2019.789	2019.268	2018.635	2018.313
3.0	2024.807	2022.686	2017.847	2017.259	2018.002	2019.323	2018.135	2018.069	2016.948	2016.970
3.5	2023.208	2021.199	2015.949	2015.383	2016.359	2017.569	2016.770	2016.204	2015.849	2015.372
4.0	2021.288	2019.146	2014.128	2013.507	2014.728	2015.971	2015.105	2014.794	2014.028	2013.851
4.5	2019.245	2017.059	2011.820	2011.198	2012.696	2014.095	2012.863	2012.941	2012.064	2011.853
5.0	2017.014	2014.783	2009.633	2008.845	2010.099	2011.919	2010.920	2010.554	2009.999	2009.866
5.5	2014.361	2012.619	2007.069	2006.469	2007.635	2009.389	2008.390	2008.323	2007.979	2007.424
6.0	2011.764	2010.121	2004.538	2004.027	2005.248	2006.924	2005.948	2005.737	2005.581	2005.282
6.5	2008.934	2007.302	2001.630	2001.197	2002.518	2004.072	2003.128	2003.239	2002.573	2002.074
7.0	2006.003	2004.050	1998.699	1998.122	1999.776	2001.330	1999.998	2000.009	1999.732	1999.521
7.5	2002.851	2000.975	1995.680	1994.837	1996.424	1998.033	1997.145	1997.101	1996.191	1996.635
8.0	1999.332	1997.578	1991.984	1991.584	1992.794	1994.381	1993.649	1993.793	1993.482	1992.938
8.5	1995.658	1993.727	1988.443	1988.077	1989.198	1990.929	1990.008	1989.664	1989.919	1989.264
9.0	1991.573	1989.908	1984.547	1983.947	1985.635	1987.100	1986.312	1985.957	1986.034	1985.823
9.5	1987.744	1985.879	1980.384	1979.840	1981.295	1982.471	1981.927	1981.994	1981.972	1981.739
10.0	1983.082	1981.306	1976.222	1975.578	1977.054	1978.420	1978.120	1977.620	1977.787	1977.731
10.5	1978.464	1976.877	1971.560	1971.316	1972.403	1974.024	1973.480	1973.680	1973.425	1973.469
11.0	1973.780	1972.126	1966.665	1966.321	1967.653	1969.362	1968.796	1968.752	1968.918	1968.763
11.5	1968.718	1966.909	1961.892	1961.414	1962.724	1964.467	1964.234	1964.078	1964.056	1964.500
12.0	1963.446	1961.825	1956.619	1955.975	1957.585	1959.783	1959.083	1959.305	1959.261	1959.683
12.5	1958.395	1956.098	1951.158	1950.803	1952.557	1953.900	1953.656	1954.011	1954.344	1954.743
13.0	1952.423	1950.725	1945.608	1945.397	1946.718	1948.538	1948.183	1948.405	1948.649	1949.204
13.5	1946.907	1944.853	1939.714	1939.403	1940.891	1942.900	1942.522	1942.622	1943.199	1943.543
14.0	1940.569	1938.582	1933.831	1933.365	1934.741	1936.983	1936.206	1936.528	1937.372	1937.638
14.5	1934.386	1932.510	1927.593	1927.071	1928.259	1930.434	1930.412	1930.834	1931.322	1931.711
15.0	1927.559	1926.005	1920.800	1920.444	1921.987	1924.218	1924.196	1924.285	1925.006	1925.273
15.5	1920.955	1919.334	1914.306	1913.673	1915.361	1917.669	1917.470	1917.758	1918.768	1919.135
16.0	1913.718	1912.119	1907.280	1906.869	1908.512	1910.854	1910.477	1910.832	1912.042	1912.630
16.5	1906.836	1905.004	1899.909	1899.909	1901.275	1903.672	1903.606	1903.805	1905.093	1905.326
17.0	1899.310	1897.634	1892.594	1892.384	1893.949	1896.635	1896.213	1896.857	1897.978	1898.189
17.5	1891.629	1889.642	1884.769	1884.680	1886.223	1888.954	1888.820	1889.409	1890.574	1890.785
18.0	1884.081	1881.972	1877.154	1876.988	1878.686	1881.328	1881.284	1881.983	1882.937	1883.337
18.5	1875.767	1873.847	1869.018	1869.074	1871.072	1873.158	1873.192	1873.813	1875.545	1875.545
19.0	1867.864	1865.544	1861.037	1860.560	1862.747	1864.800	1865.089	1865.777	1867.331	1867.675
19.5	1859.405	1857.108	1852.224	1852.279	1853.922	1856.675	1856.841	1857.729	1858.984	1859.616
20.0	1850.614	1848.439	1843.843	1843.466	1845.253	1848.305	1848.505	1849.005	1850.781	1851.236
20.5	1841.490	1839.448	1834.852	1834.541	1836.562	1839.281	1839.581	1840.313	1842.034	1842.711
21.0	1832.566	1830.401	1826.094	1825.573	1827.382	1830.157	1830.512	1831.433	1832.832	1834.131
21.5	1823.697	1821.133	1816.682	1816.371	1818.335	1820.922	1821.388	1822.576	1824.063	1825.007
22.0	1814.295	1812.153	1807.313	1806.947	1808.734	1811.509	1812.086	1812.552	1815.083	1815.949
22.5	1804.516	1802.296	1797.667	1797.712	1799.232	1801.608	1802.129	1803.117	1805.482	1806.436
23.0	1794.926	1792.561	1787.899	1787.688	1789.409	1791.906	1792.217	1793.471	1795.980	1796.746
23.5	1784.636	1782.349	1777.565	1777.721	1779.297	1781.728	1782.005	1783.326	1785.812	1786.767
24.0	1774.413	1772.204	1767.597	1767.542	1769.273	1771.349	1771.771	1773.025	1775.845	1776.977
24.5	1764.167	1761.614	1757.208	1757.019	1758.673	1760.793	1761.148	1762.647	1765.666	1766.787
25.0	1753.667	1751.314	1746.718	1746.097	1748.006	1750.415	1750.914	1752.091	1754.932	1756.486
25.5	1742.944	1740.513	1735.585	1735.607	1737.117	1739.259	1739.592	1740.835	1744.021	1745.586
26.0	1731.944	1729.613	1724.607	1724.618	1725.995	1728.159	1728.803	1730.024	1733.343	1735.030
26.5	1720.422	1718.036	1713.529	1713.518	1714.661	1717.092	1717.414	1718.746	1722.165	1724.074

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27.0	1709.189	1706.792	1702.007	1701.719	1703.095	1705.781	1705.870	1707.424	1710.854	1712.774
27.5	1697.556	1695.470	1690.708	1690.364	1691.474	1693.982	1694.426	1695.669	1699.710	1701.519
28.0	1685.591	1683.504	1678.598	1678.509	1679.641	1682.027	1682.438	1683.848	1688.044	1689.809
28.5	1674.058	1671.527	1666.765	1666.521	1667.675	1669.773	1670.705	1671.893	1675.867	1678.120
29.0	1661.859	1659.073	1654.610	1654.311	1655.332	1658.040	1658.196	1659.672	1663.768	1666.210
29.5	1649.183	1646.674	1641.945	1641.679	1642.944	1645.187	1645.764	1647.151	1651.336	1653.911
30.0	1636.451	1634.142	1629.746	1629.147	1630.379	1632.621	1633.265	1634.408	1638.860	1641.413
30.5	1623.963	1621.444	1617.104	1616.682	1617.836	1619.745	1620.533	1621.832	1626.394	1629.092
31.0	1610.810	1608.401	1603.861	1603.717	1604.605	1606.836	1607.513	1608.534	1613.640	1616.204
31.5	1597.590	1595.292	1590.941	1590.131	1591.596	1594.004	1594.182	1595.703	1600.442	1603.173
32.0	1584.347	1582.039	1577.388	1577.255	1578.154	1580.474	1580.984	1582.638	1586.978	1590.319
32.5	1570.595	1568.241	1563.801	1563.391	1564.190	1566.654	1567.376	1568.752	1573.680	1577.077
33.0	1556.919	1554.278	1550.470	1549.804	1550.870	1553.101	1553.656	1555.232	1560.116	1563.291
33.5	1543.078	1540.780	1536.173	1535.530	1537.050	1539.326	1539.870	1541.302	1546.330	1549.771
34.0	1529.092	1526.450	1522.243	1521.244	1522.665	1525.129	1525.606	1527.227	1532.377	1535.596
34.5	1514.628	1512.098	1507.868	1507.003	1508.490	1510.688	1511.409	1512.908	1518.158	1521.954
35.0	1500.431	1497.579	1493.627	1492.861	1494.060	1496.269	1497.179	1498.600	1504.039	1507.402
35.5	1485.302	1483.160	1478.753	1478.076	1479.519	1481.750	1482.383	1483.770	1489.376	1493.150
36.0	1471.039	1468.497	1463.946	1463.335	1464.623	1466.909	1467.764	1469.085	1474.657	1478.587
36.5	1455.510	1453.256	1448.728	1448.350	1449.505	1451.725	1452.835	1454.544	1459.872	1463.935
37.0	1440.403	1438.216	1433.709	1433.132	1434.042	1436.928	1437.517	1439.237	1444.920	1448.705
37.5	1425.240	1422.654	1418.480	1418.114	1418.747	1421.499	1422.543	1424.086	1429.802	1433.521
38.0	1409.989	1407.269	1402.996	1402.529	1403.606	1406.004	1406.892	1408.745	1414.540	1418.491
38.5	1394.149	1391.707	1387.456	1386.779	1387.822	1390.419	1391.296	1393.305	1398.944	1402.763
39.0	1378.154	1375.778	1371.638	1370.994	1372.249	1374.857	1375.934	1377.344	1383.382	1387.200
39.5	1362.436	1359.772	1355.798	1354.955	1356.276	1358.929	1360.327	1361.804	1367.831	1371.461
40.0	1346.363	1343.766	1339.703	1339.093	1340.147	1342.900	1344.143	1345.842	1351.725	1355.821
40.5	1329.969	1327.593	1323.575	1322.776	1324.019	1326.850	1328.082	1329.947	1335.807	1339.659
41.0	1313.985	1311.254	1307.347	1306.526	1307.858	1310.755	1312.098	1313.807	1319.801	1323.642
41.5	1297.068	1294.515	1290.619	1290.297	1291.418	1294.160	1295.381	1297.202	1303.651	1307.180
42.0	1280.718	1277.910	1274.158	1273.769	1275.046	1277.832	1279.242	1280.862	1287.089	1290.797
42.5	1264.046	1261.249	1257.541	1257.119	1258.030	1261.149	1262.547	1264.334	1270.362	1274.036
43.0	1247.063	1244.443	1240.947	1240.403	1241.424	1244.643	1245.942	1247.807	1253.767	1257.397
43.5	1229.791	1227.593	1223.919	1223.442	1224.530	1227.849	1228.881	1231.023	1236.762	1240.625
44.0	1213.097	1210.477	1207.047	1206.770	1207.724	1210.610	1212.275	1214.273	1219.835	1223.620
44.5	1195.836	1193.361	1189.987	1189.809	1190.564	1193.672	1195.503	1196.980	1202.829	1206.348
45.0	1178.887	1176.300	1172.637	1172.737	1173.581	1177.000	1177.954	1179.919	1185.647	1189.409
45.5	1161.437	1159.118	1155.288	1155.310	1156.531	1159.761	1160.894	1163.069	1168.697	1172.138
46.0	1144.022	1141.591	1138.205	1138.150	1139.393	1142.301	1143.999	1146.008	1151.281	1154.578
46.5	1126.872	1123.997	1120.934	1121.056	1121.955	1125.307	1126.894	1128.637	1133.743	1137.506
47.0	1109.279	1106.814	1103.640	1103.618	1104.994	1108.246	1109.489	1111.576	1116.549	1119.757
47.5	1091.707	1089.165	1086.213	1086.035	1087.234	1090.564	1092.196	1094.171	1099.011	1102.008
48.0	1074.003	1071.716	1068.886	1068.453	1069.951	1072.993	1074.813	1076.611	1081.806	1084.326
48.5	1056.387	1054.278	1051.570	1051.259	1052.491	1055.899	1057.464	1059.284	1063.835	1066.888
49.0	1038.749	1036.685	1033.754	1033.976	1034.798	1038.272	1039.870	1041.768	1046.253	1048.994
49.5	1021.244	1019.058	1016.261	1016.183	1017.759	1021.167	1022.488	1024.108	1028.537	1031.268
50.0	1003.718	1001.498	998.989	998.589	1000.332	1003.362	1004.927	1006.592	1010.733	1013.452
50.5	986.113	983.926	981.518	981.040	982.739	985.980	987.190	989.188	993.161	995.670
51.0	968.364	966.266	963.957	963.857	965.156	968.231	969.907	971.705	975.279	977.755
51.5	950.959	948.684	946.353	946.530	947.774	951.037	952.214	953.967	957.819	960.050
52.0	933.432	931.001	928.970	928.737	930.080	933.455	934.742	936.363	939.748	942.224
52.5	915.794	913.774	911.366	911.266	912.775	915.939	917.215	918.891	922.177	924.386
53.0	898.345	896.236	893.872	894.105	895.548	898.856	900.155	901.664	904.672	906.559
53.5	880.863	878.554	876.423	876.756	878.210	881.518	882.517	884.182	887.179	888.500
54.0	863.336	861.449	859.295	859.573	860.816	863.824	865.334	866.954	869.263	870.962
54.5	846.242	844.100	842.390	842.412	843.667	847.019	848.040	849.339	851.792	853.202

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CANDELA TABULATION - (Cont.)

55.0	828.815	826.772	825.019	825.329	826.761	829.414	830.713	832.167	834.032	835.863
55.5	811.676	809.712	808.058	808.047	809.801	812.265	813.430	814.784	816.827	817.870
56.0	794.605	792.662	791.419	791.164	792.740	795.271	796.425	797.624	799.589	800.754
56.5	777.488	775.679	773.981	774.059	775.590	778.210	779.420	780.508	782.361	783.061
57.0	760.517	758.474	757.120	757.431	759.040	761.516	762.293	763.391	765.068	765.978
57.5	743.722	741.536	740.403	740.537	742.102	744.710	745.321	746.575	747.940	748.762
58.0	727.006	725.130	723.909	724.042	725.529	727.494	728.959	729.714	730.846	731.546
58.5	710.289	708.236	707.403	707.503	708.802	711.255	712.232	712.886	714.107	714.474
59.0	693.695	692.007	690.997	691.042	692.496	694.760	695.526	696.325	697.269	697.580
59.5	677.222	675.535	674.580	674.714	676.090	678.399	679.265	679.864	680.630	680.930
60.0	661.160	659.307	658.408	658.385	659.862	662.015	662.914	663.203	664.213	664.335
60.5	644.788	643.056	642.335	642.635	643.900	646.053	646.653	647.219	647.951	647.885
61.0	628.737	627.161	626.218	626.540	627.794	629.992	630.502	630.902	631.390	631.590
61.5	612.620	611.432	610.522	610.667	612.176	613.997	614.407	614.851	615.340	615.162
62.0	596.958	595.448	594.971	595.149	596.470	598.168	599.000	599.333	599.444	599.278
62.5	581.407	579.897	579.353	579.686	580.586	582.617	583.216	583.660	583.627	583.261
63.0	565.889	564.391	563.958	564.257	565.467	567.177	567.798	567.854	568.142	567.854
63.5	550.704	548.951	548.784	549.139	550.238	551.948	552.436	552.547	552.647	552.269
64.0	535.342	533.921	533.377	533.899	535.109	536.607	537.118	537.373	537.051	536.607
64.5	520.224	518.969	518.670	519.058	519.702	521.567	522.177	522.200	522.022	521.633
65.0	505.383	504.262	504.084	504.229	505.194	506.771	507.070	507.403	507.226	506.771
65.5	490.442	489.188	489.210	489.366	490.431	492.107	492.307	492.574	492.218	491.619
66.0	476.057	474.814	474.814	474.958	475.802	477.444	477.689	478.177	477.655	477.056
66.5	461.349	460.484	460.328	460.728	461.649	463.303	463.647	463.869	463.270	462.737
67.0	447.197	446.120	446.165	446.708	447.474	449.173	449.206	449.539	448.940	448.418
67.5	433.444	432.223	432.167	432.578	433.511	434.942	435.553	435.464	435.031	434.199
68.0	419.380	418.337	418.514	418.659	419.669	420.990	421.511	421.500	420.990	420.379
68.5	405.450	404.717	404.728	405.194	406.027	407.570	407.936	407.958	407.503	406.649
69.0	392.130	390.942	391.197	391.541	392.607	394.183	394.372	394.661	394.117	393.273
69.5	378.677	377.611	377.855	378.266	379.121	380.752	381.463	381.063	380.586	379.875
70.0	365.279	364.224	364.835	365.157	366.011	367.421	367.843	368.154	367.510	366.722
70.5	352.469	351.326	351.959	352.270	352.947	354.734	354.989	355.045	354.567	354.057
71.0	339.560	338.350	339.038	339.338	340.237	341.924	342.269	342.380	341.813	341.281
71.5	326.784	325.741	326.595	326.806	327.683	329.315	329.814	329.615	329.359	328.671
72.0	314.330	313.464	313.952	314.285	315.506	316.827	317.316	317.338	317.060	316.361
72.5	301.853	301.121	301.654	302.198	303.163	304.773	305.317	305.250	304.939	304.184
73.0	289.588	288.933	289.688	290.010	290.753	292.685	293.118	293.207	292.818	292.219
73.5	277.877	277.023	277.733	278.266	278.932	280.874	281.252	281.441	281.119	280.608
74.0	266.100	265.301	266.167	266.522	267.577	269.308	269.897	270.119	269.675	269.131
74.5	254.357	253.713	254.456	255.134	256.044	257.975	258.441	258.341	258.275	257.675
75.0	243.157	242.446	243.323	243.878	244.766	246.520	247.175	247.319	247.186	246.709
75.5	231.946	231.335	232.256	232.645	233.799	235.453	235.997	236.275	236.153	236.019
76.0	220.912	220.202	221.212	221.501	222.699	224.253	225.186	225.430	225.530	224.975
76.5	209.879	209.690	210.734	210.900	212.099	214.019	214.519	214.785	214.896	214.674
77.0	199.467	198.990	200.011	200.499	201.754	203.507	204.296	204.595	204.640	204.462
77.5	189.144	188.811	189.666	190.199	191.209	193.162	193.950	194.405	194.528	194.294
78.0	179.065	178.555	179.576	180.120	181.363	183.095	184.005	184.182	184.571	184.438
78.5	169.009	168.776	169.675	170.196	171.628	173.460	174.170	174.781	174.925	174.636
79.0	159.507	158.830	160.129	160.617	161.860	163.836	164.535	164.924	165.501	165.235
79.5	149.806	149.661	150.494	151.127	152.503	154.334	155.200	155.511	156.055	156.022
80.0	140.482	140.093	141.248	141.825	143.157	145.033	146.009	146.387	147.008	147.175
80.5	131.535	131.357	132.401	132.945	134.266	136.219	136.885	137.585	138.151	138.373
81.0	122.711	122.366	123.599	124.065	125.630	127.550	128.172	128.904	129.437	129.748
81.5	114.130	113.797	114.996	115.451	116.839	118.770	119.858	120.402	121.090	121.268
82.0	105.361	105.350	106.560	107.348	108.569	110.589	111.289	112.143	113.142	113.264
82.5	97.458	97.536	98.635	99.167	100.333	102.375	103.041	104.018	105.006	104.951

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CANDELA TABULATION - (Cont.)

83.0	89.666	89.544	90.720	91.286	92.541	94.494	95.371	96.082	97.058	97.225
83.5	81.863	81.707	82.884	83.605	84.793	86.713	87.868	88.345	89.111	89.544
84.0	74.448	74.514	75.491	75.902	77.201	79.210	80.342	81.119	81.752	82.118
84.5	67.199	67.244	68.187	68.942	69.941	71.928	72.683	73.316	74.437	74.581
85.0	59.973	60.062	61.183	61.561	62.937	64.591	65.590	66.212	67.044	67.377
85.5	53.313	53.347	54.468	54.712	55.977	57.509	58.652	59.163	60.084	60.673
86.0	46.576	46.787	47.608	47.797	49.140	50.805	51.881	52.248	53.447	54.323
86.5	40.182	40.226	41.081	41.459	42.247	44.211	45.188	45.843	47.242	47.841
87.0	33.866	33.866	34.843	35.331	35.942	37.918	38.717	39.716	41.259	42.191
87.5	28.305	28.116	28.882	29.182	30.248	32.312	33.411	34.366	35.398	36.519
88.0	22.555	22.244	22.999	23.477	24.953	27.062	28.227	29.071	30.359	31.069
88.5	16.939	17.050	18.304	18.926	20.235	22.478	23.588	24.320	25.619	26.307
89.0	12.243	12.410	13.964	14.719	16.117	18.115	19.070	20.047	21.090	21.712
89.5	7.959	8.603	10.234	10.800	12.032	14.008	14.918	15.707	16.839	17.594
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>	<u>100.0</u>	<u>110.0</u>	<u>112.5</u>	<u>120.0</u>	<u>130.0</u>	<u>135.0</u>	<u>140.0</u>
0.0	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129
0.5	2020.644	2018.080	2020.411	2021.687	2021.521	2021.121	2021.643	2023.619	2025.228	2025.561
1.0	2020.067	2017.370	2020.000	2021.243	2021.243	2020.622	2021.699	2023.563	2024.918	2025.406
1.5	2019.223	2016.593	2019.368	2020.811	2020.866	2020.333	2021.132	2022.842	2024.629	2024.795
2.0	2018.413	2015.571	2018.313	2019.967	2019.734	2019.490	2020.311	2022.154	2023.763	2023.974
2.5	2017.025	2014.717	2017.414	2018.824	2018.713	2018.435	2019.423	2021.132	2022.820	2023.219
3.0	2015.893	2013.684	2016.260	2017.714	2017.913	2017.392	2018.169	2020.000	2021.599	2022.087
3.5	2014.750	2012.119	2014.994	2016.581	2016.604	2016.071	2016.926	2018.946	2020.766	2020.922
4.0	2012.952	2010.565	2013.362	2014.872	2015.172	2014.672	2015.360	2017.347	2018.901	2019.645
4.5	2011.009	2008.667	2011.298	2013.140	2013.096	2012.907	2013.707	2015.827	2017.625	2017.936
5.0	2008.845	2006.747	2009.311	2011.220	2011.298	2011.220	2012.064	2014.062	2015.982	2016.004
5.5	2006.536	2004.482	2006.902	2009.122	2009.311	2009.045	2009.977	2011.598	2013.662	2013.906
6.0	2004.272	2001.852	2004.771	2006.924	2007.124	2006.891	2007.457	2009.633	2011.542	2011.875
6.5	2001.319	1998.944	2002.240	2004.161	2004.516	2004.216	2004.904	2007.047	2009.022	2009.222
7.0	1998.333	1996.357	1999.299	2001.630	2001.852	2001.608	2002.440	2004.349	2005.759	2006.702
7.5	1995.281	1993.427	1996.235	1998.599	1998.788	1998.477	1999.476	2001.596	2003.239	2003.639
8.0	1992.417	1989.886	1992.750	1995.292	1995.736	1995.491	1996.379	1998.522	2000.420	2001.363
8.5	1988.732	1986.512	1989.653	1992.228	1992.084	1992.206	1993.172	1994.825	1996.868	1997.612
9.0	1984.924	1982.904	1985.557	1988.221	1988.776	1988.487	1989.542	1991.717	1993.538	1993.926
9.5	1981.050	1978.819	1981.905	1984.591	1984.969	1984.724	1986.201	1987.966	1989.786	1990.319
10.0	1976.866	1974.890	1977.909	1980.784	1981.050	1980.984	1981.883	1983.947	1985.524	1986.445
10.5	1972.970	1970.594	1973.669	1976.522	1976.921	1976.877	1977.998	1979.863	1981.505	1982.349
11.0	1968.596	1966.321	1969.151	1972.481	1972.659	1972.459	1973.502	1975.301	1977.188	1977.987
11.5	1963.546	1961.581	1964.545	1967.897	1968.097	1967.941	1968.851	1970.938	1972.692	1973.647
12.0	1958.795	1956.719	1959.949	1963.013	1962.957	1963.279	1964.123	1966.032	1968.097	1969.284
12.5	1953.700	1951.491	1954.999	1958.140	1958.162	1958.340	1958.972	1961.403	1963.202	1964.156
13.0	1948.416	1946.174	1949.471	1952.990	1953.045	1952.768	1953.944	1956.164	1957.973	1958.884
13.5	1942.478	1940.768	1944.110	1947.306	1947.639	1947.628	1948.905	1950.614	1952.734	1953.489
14.0	1937.061	1934.974	1938.182	1941.756	1941.812	1942.012	1943.233	1945.297	1947.373	1948.106
14.5	1931.000	1929.158	1932.410	1935.995	1935.984	1935.984	1937.649	1939.747	1941.268	1942.456
15.0	1924.829	1922.853	1926.272	1929.757	1930.035	1929.868	1931.333	1933.731	1935.218	1936.395
15.5	1918.668	1916.648	1919.712	1923.663	1923.819	1924.041	1925.217	1927.315	1929.136	1930.190
16.0	1911.753	1909.910	1913.418	1916.970	1917.370	1917.658	1918.835	1921.288	1922.853	1923.896
16.5	1905.315	1903.284	1906.991	1910.565	1910.654	1911.176	1912.142	1914.695	1915.971	1917.314
17.0	1897.823	1896.391	1899.809	1903.606	1904.050	1904.050	1905.526	1907.679	1909.411	1910.565
17.5	1890.430	1889.076	1892.506	1896.513	1896.613	1896.746	1898.067	1900.820	1902.385	1903.461
18.0	1882.960	1881.783	1884.980	1889.076	1889.387	1889.720	1890.896	1893.505	1894.837	1895.924

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18.5	1875.389	1874.057	1877.498	1881.461	1882.027	1882.016	1883.293	1885.957	1887.611	1888.277
19.0	1867.409	1866.210	1869.662	1874.035	1874.035	1874.501	1875.445	1877.865	1879.630	1880.873
19.5	1859.350	1858.573	1861.526	1865.732	1866.565	1866.521	1867.730	1870.383	1871.538	1872.670
20.0	1851.225	1850.037	1853.400	1857.829	1858.073	1858.617	1859.772	1862.192	1863.357	1864.711
20.5	1842.866	1841.457	1845.142	1849.371	1849.671	1849.982	1851.025	1853.511	1854.810	1856.253
21.0	1833.864	1832.932	1836.273	1840.991	1841.412	1841.435	1842.789	1845.009	1846.607	1847.662
21.5	1825.195	1824.285	1827.793	1832.022	1832.344	1832.666	1833.909	1836.173	1837.805	1838.859
22.0	1815.960	1815.050	1818.635	1823.330	1823.486	1823.963	1824.785	1827.204	1828.470	1829.824
22.5	1806.525	1805.981	1809.589	1813.773	1814.284	1814.717	1815.771	1817.991	1819.468	1820.023
23.0	1796.790	1796.468	1800.254	1804.394	1804.982	1805.426	1806.325	1808.246	1809.433	1810.388
23.5	1787.167	1786.834	1790.386	1794.970	1795.103	1795.614	1796.679	1798.711	1800.020	1801.175
24.0	1777.221	1777.021	1780.773	1785.091	1785.213	1786.001	1786.567	1788.932	1789.919	1791.129
24.5	1766.787	1766.954	1770.539	1774.979	1775.600	1775.589	1777.043	1778.842	1779.796	1780.884
25.0	1756.431	1756.564	1760.504	1764.833	1765.422	1765.544	1766.798	1768.319	1769.540	1770.572
25.5	1746.086	1746.086	1750.137	1754.677	1754.721	1755.343	1756.220	1757.840	1759.028	1759.983
26.0	1735.463	1735.407	1739.592	1743.899	1744.421	1744.709	1745.786	1747.251	1748.017	1749.149
26.5	1724.452	1724.463	1728.914	1733.110	1733.709	1734.053	1734.819	1736.151	1736.928	1737.971
27.0	1713.352	1713.751	1717.758	1721.932	1722.709	1722.653	1723.786	1724.774	1726.039	1726.472
27.5	1701.841	1702.429	1706.658	1711.098	1711.642	1711.964	1712.675	1713.607	1714.628	1715.450
28.0	1690.197	1690.808	1695.170	1699.565	1699.865	1700.032	1701.164	1702.019	1702.740	1703.717
28.5	1678.287	1679.286	1683.570	1687.922	1688.388	1688.588	1689.620	1690.019	1691.074	1691.729
29.0	1666.587	1667.342	1672.115	1676.233	1676.733	1676.855	1677.721	1678.176	1679.164	1679.652
29.5	1654.511	1655.510	1659.728	1664.279	1664.545	1665.122	1665.611	1666.066	1666.787	1667.520
30.0	1642.067	1643.055	1647.728	1651.869	1652.746	1652.768	1653.478	1653.589	1654.200	1654.710
30.5	1629.569	1631.145	1635.641	1639.736	1640.214	1640.547	1640.791	1640.891	1641.868	1642.201
31.0	1616.771	1618.269	1622.709	1627.249	1627.726	1628.181	1628.204	1628.004	1628.736	1629.080
31.5	1603.883	1605.471	1610.000	1614.273	1615.028	1615.083	1615.561	1615.250	1615.605	1616.038
32.0	1590.908	1592.506	1597.157	1601.530	1602.374	1602.207	1602.463	1601.952	1602.540	1602.807
32.5	1577.599	1579.463	1584.103	1588.599	1588.865	1589.054	1588.943	1588.443	1588.776	1589.165
33.0	1564.390	1566.277	1570.817	1575.068	1575.767	1575.634	1575.678	1575.046	1575.456	1575.545
33.5	1550.492	1552.757	1557.630	1561.626	1562.425	1562.214	1562.025	1561.293	1561.659	1561.759
34.0	1536.340	1538.960	1543.710	1548.073	1548.583	1548.694	1548.372	1547.507	1547.551	1547.840
34.5	1522.587	1525.085	1529.747	1534.209	1534.819	1534.653	1534.575	1533.176	1533.620	1533.509
35.0	1508.446	1510.999	1515.883	1520.167	1520.744	1520.478	1520.345	1519.013	1519.412	1518.935
35.5	1493.683	1496.879	1501.675	1505.837	1506.758	1506.170	1506.037	1504.361	1504.450	1504.583
36.0	1479.419	1482.438	1487.067	1491.518	1492.106	1492.051	1491.618	1490.086	1490.031	1489.920
36.5	1464.623	1467.942	1472.681	1476.711	1477.299	1477.277	1476.866	1475.024	1475.157	1474.968
37.0	1449.582	1452.790	1457.774	1462.092	1462.658	1462.425	1461.815	1460.083	1460.116	1459.916
37.5	1434.420	1438.249	1442.911	1447.129	1447.396	1447.718	1446.996	1445.054	1444.787	1444.809
38.0	1419.246	1422.831	1427.482	1431.822	1432.522	1432.655	1431.623	1429.835	1429.569	1429.436
38.5	1403.762	1407.569	1412.286	1416.527	1417.259	1417.315	1416.360	1414.240	1413.974	1413.829
39.0	1388.044	1391.951	1397.035	1401.109	1401.941	1401.886	1400.776	1398.811	1398.478	1398.345
39.5	1372.682	1376.356	1381.362	1385.513	1386.113	1386.212	1385.269	1382.971	1382.649	1382.660
40.0	1356.587	1360.549	1365.378	1369.596	1370.184	1370.084	1369.551	1367.154	1366.832	1366.232
40.5	1340.392	1344.565	1349.538	1353.778	1354.389	1354.156	1353.201	1350.926	1350.559	1350.382
41.0	1324.530	1328.415	1333.687	1337.594	1338.327	1338.449	1337.206	1334.708	1334.631	1334.375
41.5	1307.980	1312.142	1317.137	1321.166	1322.221	1321.966	1320.822	1318.835	1318.192	1317.748
42.0	1291.685	1296.003	1300.798	1304.816	1305.549	1305.593	1304.428	1302.518	1301.708	1301.320
42.5	1275.224	1279.175	1284.259	1287.844	1289.254	1289.110	1287.789	1285.646	1285.158	1284.792
43.0	1258.596	1262.792	1267.454	1271.505	1272.404	1272.548	1271.205	1268.830	1268.386	1268.142
43.5	1241.668	1245.842	1250.526	1254.744	1255.477	1255.577	1254.600	1252.335	1251.836	1251.314
44.0	1224.707	1228.715	1233.943	1237.717	1238.915	1238.693	1237.572	1235.641	1234.942	1234.509
44.5	1207.469	1211.621	1216.760	1220.456	1221.488	1221.722	1220.523	1218.669	1217.881	1217.481
45.0	1190.142	1194.604	1199.277	1203.418	1204.794	1204.694	1203.395	1201.653	1200.809	1200.398
45.5	1172.948	1177.266	1182.106	1185.902	1187.389	1187.367	1186.457	1184.359	1183.915	1183.005
46.0	1155.521	1159.695	1164.612	1168.464	1169.774	1169.896	1169.041	1167.110	1166.344	1165.988

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46.5	1138.116	1142.279	1147.141	1150.892	1152.480	1152.535	1151.714	1149.871	1149.239	1148.894
47.0	1120.856	1124.819	1129.492	1133.232	1134.975	1135.064	1134.387	1132.600	1132.011	1131.545
47.5	1102.874	1106.859	1111.743	1115.650	1117.293	1117.126	1116.738	1115.150	1114.329	1113.941
48.0	1085.303	1089.454	1093.994	1098.023	1099.344	1099.133	1098.967	1097.524	1097.191	1096.669
48.5	1067.631	1071.694	1075.967	1079.830	1081.651	1081.817	1081.307	1080.219	1079.730	1079.220
49.0	1049.672	1053.901	1058.041	1062.004	1063.702	1064.102	1063.702	1062.292	1061.870	1061.549
49.5	1032.122	1035.852	1040.059	1044.033	1045.787	1046.197	1045.997	1044.754	1044.599	1044.011
50.0	1014.085	1017.937	1022.255	1026.006	1027.982	1028.249	1028.104	1027.205	1026.839	1026.639
50.5	996.203	999.932	1004.184	1008.091	1009.856	1010.100	1010.289	1009.689	1009.412	1008.790
51.0	978.188	981.995	986.191	990.264	991.974	992.407	992.418	991.963	991.841	991.308
51.5	960.428	963.880	968.231	972.227	973.814	974.280	974.702	974.069	974.214	973.803
52.0	942.568	945.931	949.871	953.812	955.932	956.198	956.864	956.631	956.742	956.087
52.5	924.919	927.893	931.878	935.786	937.728	938.128	939.104	939.038	938.938	938.727
53.0	906.926	910.045	913.896	917.726	919.946	920.334	921.289	921.167	921.522	921.089
53.5	888.999	891.996	895.781	899.477	901.820	902.486	903.218	903.529	903.618	903.551
54.0	871.050	874.047	877.788	881.507	884.037	884.426	885.647	886.035	886.246	886.268
54.5	853.590	856.298	860.028	863.869	866.233	866.821	867.931	868.409	868.708	868.753
55.0	835.641	838.139	841.913	845.531	848.162	848.839	850.105	850.904	851.326	851.115
55.5	818.270	820.712	824.264	828.060	830.336	831.235	832.611	833.588	833.999	834.187
56.0	800.732	803.107	806.526	810.122	812.831	813.530	815.184	816.083	816.572	816.805
56.5	783.116	785.392	788.688	792.285	795.115	795.770	797.491	798.745	799.522	799.622
57.0	765.756	767.942	771.184	774.824	777.599	778.243	780.108	781.584	782.162	782.550
57.5	748.484	750.660	753.923	757.209	760.472	760.750	762.870	764.379	765.223	765.478
58.0	731.268	733.322	736.352	739.760	742.901	743.289	745.676	747.396	748.373	748.495
58.5	714.474	716.250	719.269	722.666	725.540	726.551	728.293	730.436	731.190	731.745
59.0	697.502	699.134	701.931	705.316	708.424	709.168	711.721	713.641	714.662	715.151
59.5	680.552	682.006	685.025	688.355	691.430	692.163	694.694	697.091	697.846	698.445
60.0	663.980	665.523	668.187	671.417	674.569	675.546	677.844	680.552	681.296	681.917
60.5	647.441	648.884	651.581	654.833	657.830	658.774	661.316	664.002	664.901	665.456
61.0	631.057	632.411	635.031	637.950	641.425	642.124	644.455	647.297	648.451	649.128
61.5	614.984	616.183	618.614	621.855	624.819	625.696	628.593	631.279	632.556	633.244
62.0	598.856	600.110	602.475	605.605	608.657	609.390	612.243	615.262	616.661	616.960
62.5	583.161	583.916	586.402	589.210	592.618	593.417	596.248	598.967	600.521	601.232
63.0	567.454	568.376	570.551	573.326	576.578	577.533	580.119	583.605	584.992	585.347
63.5	551.970	552.780	554.834	557.475	560.761	561.815	564.502	567.798	568.975	569.796
64.0	536.197	537.051	539.049	542.257	545.288	546.020	549.139	552.258	553.524	554.456
64.5	521.234	521.933	523.953	526.573	529.748	530.758	533.577	536.829	538.394	539.149
65.0	505.971	506.782	508.979	511.466	514.740	515.606	518.525	521.889	523.143	524.375
65.5	491.120	491.808	493.761	496.381	499.511	500.333	503.307	506.815	508.169	508.835
66.0	476.801	477.145	478.787	481.596	484.804	485.536	488.567	492.085	493.328	494.272
66.5	462.237	462.604	464.313	466.855	470.007	470.929	473.948	477.389	478.799	479.742
67.0	448.029	448.496	450.083	452.247	455.489	456.610	459.351	462.826	464.047	464.968
67.5	434.066	434.110	435.764	438.017	441.047	442.257	444.977	448.718	449.717	450.815
68.0	420.068	420.335	422.011	424.164	427.250	428.049	431.013	434.432	436.075	436.741
68.5	406.249	406.748	408.058	410.256	413.209	414.086	417.038	420.446	421.656	422.644
69.0	392.929	392.951	394.350	396.570	399.744	400.510	403.430	406.793	407.814	408.968
69.5	379.798	379.498	381.041	383.294	386.280	387.002	389.865	393.029	394.516	395.304
70.0	366.522	366.511	368.065	369.908	372.738	373.670	376.590	379.687	380.930	381.918
70.5	353.468	353.713	354.934	357.065	359.873	360.495	363.225	366.333	367.832	368.720
71.0	340.837	341.025	342.180	344.267	346.908	347.674	350.438	353.468	354.867	355.478
71.5	328.183	328.316	329.870	331.646	334.310	334.898	337.595	340.570	341.780	342.635
72.0	316.061	315.995	317.371	319.136	321.822	322.499	324.919	327.850	329.259	329.959
72.5	303.796	303.796	305.217	306.826	309.712	310.112	312.787	315.806	316.805	317.360
73.0	291.786	291.897	293.262	294.994	297.591	298.190	300.521	303.052	304.340	305.261
73.5	280.408	280.497	281.496	283.217	285.847	286.280	288.833	291.275	292.541	293.162
74.0	268.853	268.787	269.808	271.639	273.848	274.414	276.923	279.587	280.308	281.130

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74.5	257.342	257.609	258.619	260.384	262.648	263.103	265.201	267.732	268.720	269.308
75.0	246.498	246.609	247.319	249.251	251.326	252.037	254.012	256.277	257.409	257.953
75.5	235.664	235.664	236.830	238.084	240.160	241.070	242.801	245.210	245.832	246.520
76.0	224.708	224.808	225.941	227.539	229.259	229.826	231.846	234.421	234.932	235.376
76.5	214.397	214.452	215.751	216.927	219.070	219.292	221.134	223.265	224.198	224.420
77.0	204.185	204.318	205.250	206.671	208.591	209.013	210.756	212.698	213.553	213.753
77.5	194.006	193.961	195.293	196.481	198.524	198.812	200.555	202.442	202.808	203.174
78.0	184.238	184.471	185.259	186.735	188.223	188.833	190.831	192.052	192.652	192.929
78.5	174.503	174.881	175.780	177.101	178.821	179.176	180.741	182.229	182.706	182.939
79.0	165.157	165.423	166.511	167.499	169.097	169.497	170.918	172.350	172.772	172.949
79.5	155.966	156.410	157.243	158.208	159.740	160.129	161.672	162.804	163.214	163.470
80.0	146.886	147.208	148.174	149.206	150.749	151.004	152.447	153.524	153.624	153.724
80.5	138.251	138.539	139.438	140.471	141.780	142.224	143.401	144.344	144.589	144.533
81.0	129.648	130.136	130.947	132.035	133.189	133.233	134.610	135.587	136.086	135.598
81.5	121.379	121.723	122.622	123.643	124.720	124.942	125.985	126.762	126.906	126.806
82.0	113.187	113.431	113.986	115.207	116.273	116.583	117.571	118.237	118.493	118.315
82.5	104.939	105.517	106.149	107.248	108.325	108.614	109.513	109.957	110.012	109.857
83.0	97.114	97.502	98.524	99.445	100.311	100.522	101.498	102.009	102.109	101.854
83.5	89.366	89.777	90.731	91.564	92.419	92.829	93.617	94.117	93.873	93.795
84.0	81.829	82.251	83.095	83.861	85.037	84.815	85.925	86.436	86.402	85.925
84.5	74.614	75.103	75.869	76.657	77.456	77.933	78.521	78.854	78.666	78.655
85.0	67.388	68.043	68.498	69.597	70.174	70.430	71.062	71.240	71.140	70.996
85.5	60.795	61.117	62.038	62.704	63.148	63.314	63.714	64.302	63.980	63.803
86.0	54.279	54.801	55.544	56.222	56.821	56.888	57.010	57.232	56.954	56.888
86.5	48.052	48.751	49.584	50.117	50.549	50.505	50.672	50.283	49.928	49.717
87.0	42.347	43.057	43.690	44.167	44.456	44.489	44.444	44.189	43.523	43.024
87.5	36.464	37.307	38.073	38.495	38.595	38.828	38.684	38.328	37.673	37.096
88.0	31.124	32.046	32.823	33.322	33.367	33.156	33.189	32.712	32.456	31.580
88.5	26.329	26.862	27.561	27.861	28.316	28.283	28.361	27.828	27.206	26.551
89.0	22.045	22.422	22.899	23.199	23.521	23.676	23.665	23.155	22.799	21.967
89.5	17.571	17.927	18.426	19.081	19.392	19.492	19.347	18.559	18.237	17.749
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>150.0</u>	<u>157.5</u>	<u>160.0</u>	<u>170.0</u>	<u>180.0</u>	<u>190.0</u>	<u>200.0</u>	<u>202.5</u>	<u>210.0</u>	<u>220.0</u>
0.0	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129
0.5	2024.707	2025.572	2025.861	2027.559	2030.257	2029.025	2026.316	2025.917	2027.504	2028.447
1.0	2025.173	2025.484	2025.406	2027.415	2030.456	2028.658	2025.905	2025.572	2027.060	2028.281
1.5	2024.363	2024.884	2025.350	2026.671	2030.012	2028.692	2025.639	2025.062	2026.771	2027.859
2.0	2023.774	2024.307	2024.462	2025.928	2029.191	2028.037	2024.873	2024.540	2025.894	2027.215
2.5	2022.775	2023.608	2023.630	2025.206	2028.414	2026.760	2024.229	2023.641	2025.262	2026.483
3.0	2021.421	2022.742	2022.476	2023.796	2027.626	2025.994	2023.175	2022.653	2024.218	2025.384
3.5	2020.666	2021.332	2021.821	2022.831	2026.494	2025.328	2022.431	2021.576	2022.775	2024.218
4.0	2019.012	2020.089	2020.455	2021.377	2024.929	2023.475	2020.777	2020.056	2021.599	2022.942
4.5	2017.192	2018.258	2018.369	2019.545	2023.619	2021.743	2019.401	2018.757	2019.989	2021.077
5.0	2015.693	2016.337	2016.892	2018.091	2021.510	2020.389	2017.336	2016.748	2018.036	2019.212
5.5	2013.507	2014.694	2014.628	2016.182	2019.678	2018.291	2015.449	2014.905	2016.271	2017.481
6.0	2011.487	2012.075	2012.752	2013.795	2017.358	2016.304	2013.163	2012.508	2013.951	2015.283
6.5	2009.178	2009.489	2009.966	2011.209	2015.205	2014.106	2010.898	2010.443	2011.720	2012.641
7.0	2006.825	2007.191	2006.758	2008.678	2012.264	2011.364	2008.412	2007.646	2009.022	2010.010
7.5	2003.428	2003.994	2004.538	2005.726	2009.688	2008.578	2005.326	2005.115	2006.292	2007.246
8.0	2000.520	2001.175	2001.674	2002.429	2006.436	2005.681	2002.640	2002.085	2003.239	2004.616
8.5	1997.145	1997.989	1998.355	1999.698	2003.128	2002.085	1999.332	1998.966	2000.054	2000.831
9.0	1993.749	1994.825	1994.903	1996.280	1999.909	1999.210	1996.091	1995.503	1997.123	1997.501
9.5	1990.374	1991.018	1991.618	1992.028	1996.479	1995.314	1992.050	1991.917	1993.127	1993.838

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10.0	1985.957	1987.078	1987.422	1988.498	1992.705	1991.873	1988.276	1987.788	1989.531	1990.064
10.5	1982.171	1983.159	1983.082	1984.380	1988.321	1987.655	1984.347	1983.714	1985.346	1986.068
11.0	1978.131	1978.841	1978.742	1980.029	1984.269	1983.159	1979.974	1979.297	1981.150	1981.972
11.5	1973.813	1974.080	1974.457	1975.289	1979.985	1978.853	1975.722	1975.301	1976.755	1977.687
12.0	1969.129	1969.695	1970.117	1970.405	1974.768	1973.813	1970.827	1970.750	1972.159	1972.759
12.5	1964.178	1964.545	1965.510	1965.788	1970.428	1969.218	1966.176	1965.677	1967.242	1967.819
13.0	1959.416	1959.661	1960.127	1960.338	1965.155	1964.189	1960.571	1960.427	1962.036	1962.835
13.5	1953.900	1954.433	1954.899	1955.076	1959.594	1958.473	1955.420	1955.154	1956.575	1957.674
14.0	1948.183	1948.982	1949.471	1949.648	1953.911	1952.967	1950.314	1949.537	1951.191	1952.335
14.5	1942.589	1942.855	1943.521	1944.032	1948.183	1947.662	1944.265	1943.876	1945.453	1946.363
15.0	1936.206	1937.250	1937.472	1937.882	1942.378	1941.579	1938.104	1937.949	1939.525	1940.713
15.5	1930.268	1930.701	1930.845	1931.766	1936.118	1935.751	1932.066	1931.700	1933.365	1934.630
16.0	1924.063	1924.374	1924.507	1925.240	1929.291	1928.814	1925.795	1925.251	1927.027	1927.926
16.5	1917.347	1917.636	1917.991	1918.568	1922.864	1922.254	1919.168	1918.568	1920.633	1921.144
17.0	1910.621	1910.821	1911.231	1911.797	1916.204	1915.383	1912.319	1911.753	1913.618	1914.517
17.5	1903.550	1903.650	1904.005	1904.483	1908.911	1908.079	1904.982	1904.838	1906.436	1907.679
18.0	1896.091	1896.335	1896.812	1897.312	1901.486	1901.141	1897.512	1897.412	1899.254	1900.697
18.5	1888.987	1888.643	1889.331	1889.509	1894.160	1893.294	1890.208	1889.897	1891.973	1892.861
19.0	1880.951	1881.173	1881.550	1881.705	1885.957	1885.424	1881.916	1882.371	1884.059	1885.213
19.5	1872.914	1873.391	1873.680	1873.713	1878.109	1877.698	1874.435	1874.513	1875.989	1877.265
20.0	1865.100	1865.233	1865.610	1865.122	1870.017	1869.362	1866.099	1866.088	1867.975	1869.262
20.5	1856.519	1856.664	1857.063	1856.875	1861.670	1861.259	1858.240	1857.752	1859.650	1861.026
21.0	1847.728	1847.717	1848.594	1848.372	1853.023	1852.590	1849.637	1849.349	1851.180	1852.668
21.5	1839.037	1838.793	1839.481	1839.381	1843.932	1843.499	1840.591	1840.691	1842.167	1843.965
22.0	1829.902	1829.780	1830.235	1829.913	1834.508	1834.453	1831.278	1831.245	1833.198	1834.686
22.5	1821.066	1820.911	1820.933	1820.888	1825.184	1824.829	1822.376	1821.932	1824.052	1825.406
23.0	1811.243	1811.387	1811.354	1811.487	1815.971	1815.694	1812.330	1812.430	1814.473	1816.215
23.5	1801.685	1801.630	1801.486	1801.352	1806.336	1805.848	1802.551	1802.884	1804.904	1806.647
24.0	1791.607	1791.485	1791.584	1791.485	1796.313	1795.747	1792.683	1792.683	1794.959	1796.546
24.5	1781.284	1781.184	1781.650	1781.239	1785.679	1785.957	1782.593	1782.471	1784.947	1786.667
25.0	1770.938	1770.739	1771.005	1770.439	1775.434	1775.378	1772.060	1772.060	1774.646	1776.477
25.5	1760.316	1760.105	1760.294	1760.305	1764.678	1764.711	1761.503	1761.881	1763.790	1766.054
26.0	1749.449	1749.327	1749.760	1749.604	1754.033	1754.111	1750.625	1750.470	1753.323	1754.999
26.5	1738.282	1738.227	1738.393	1738.282	1742.733	1742.667	1739.681	1739.825	1742.300	1744.187
27.0	1727.071	1726.661	1727.160	1727.238	1731.722	1731.411	1728.536	1728.670	1731.134	1733.010
27.5	1715.616	1715.427	1715.871	1715.705	1720.134	1720.012	1717.148	1717.448	1719.767	1721.599
28.0	1703.728	1703.861	1703.972	1703.761	1708.457	1708.490	1705.504	1705.604	1708.024	1709.900
28.5	1692.084	1691.951	1692.262	1691.729	1696.757	1696.446	1694.038	1693.793	1696.335	1698.389
29.0	1679.941	1679.774	1680.129	1679.819	1684.592	1684.270	1681.916	1681.839	1684.203	1686.257
29.5	1667.553	1667.664	1667.742	1667.431	1672.415	1672.237	1669.484	1669.695	1672.337	1674.035
30.0	1654.733	1654.932	1655.410	1655.221	1660.005	1659.905	1657.186	1657.086	1659.705	1661.859
30.5	1642.056	1642.534	1642.489	1642.523	1647.540	1647.151	1644.809	1644.709	1647.040	1649.149
31.0	1629.080	1629.347	1629.502	1629.458	1634.453	1634.408	1631.767	1631.600	1633.987	1636.007
31.5	1616.027	1616.493	1616.482	1616.593	1621.466	1621.199	1618.780	1618.735	1621.088	1623.175
32.0	1603.007	1603.084	1603.562	1603.550	1608.179	1608.312	1605.371	1605.759	1608.024	1610.222
32.5	1589.365	1589.576	1589.864	1590.064	1594.826	1594.904	1592.217	1592.228	1594.415	1596.757
33.0	1575.756	1576.133	1576.278	1576.466	1580.973	1581.029	1578.698	1578.431	1580.995	1582.949
33.5	1562.070	1562.281	1562.480	1562.880	1567.265	1567.475	1564.800	1564.612	1567.109	1569.374
34.0	1547.640	1548.117	1548.605	1548.739	1553.378	1553.367	1550.814	1550.703	1553.179	1555.476
34.5	1533.465	1533.931	1534.231	1534.730	1539.093	1539.193	1536.717	1536.595	1539.348	1540.835
35.0	1519.268	1519.823	1520.112	1520.034	1525.029	1524.874	1522.598	1522.232	1525.007	1526.861
35.5	1504.372	1504.949	1505.260	1505.460	1510.366	1510.233	1507.724	1507.846	1510.166	1512.164
36.0	1489.886	1490.419	1490.608	1490.874	1495.503	1495.636	1493.061	1492.950	1495.392	1497.579
36.5	1474.979	1475.368	1475.801	1476.333	1480.762	1480.718	1478.442	1478.143	1480.574	1482.483
37.0	1459.805	1460.294	1460.605	1460.949	1465.433	1465.344	1463.457	1462.891	1465.644	1467.686
37.5	1444.665	1445.098	1445.409	1445.864	1450.215	1450.415	1447.895	1448.073	1450.604	1452.513

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38.0	1429.247	1429.880	1429.880	1430.668	1434.808	1435.274	1432.688	1432.744	1435.208	1436.884
38.5	1413.629	1415.716	1414.473	1415.106	1419.279	1419.379	1417.059	1416.871	1419.213	1421.788
39.0	1398.189	1398.933	1398.833	1399.333	1403.617	1403.373	1401.564	1401.220	1403.717	1406.004
39.5	1382.205	1382.538	1383.138	1383.371	1387.689	1387.722	1385.513	1385.646	1387.622	1390.208
40.0	1366.066	1366.654	1366.898	1367.465	1371.605	1371.960	1369.884	1369.640	1371.882	1373.991
40.5	1350.093	1350.371	1351.037	1351.303	1355.632	1355.510	1353.590	1353.556	1355.710	1357.941
41.0	1333.854	1334.320	1334.775	1335.275	1339.182	1339.404	1337.339	1337.195	1339.515	1341.624
41.5	1317.315	1317.859	1318.169	1318.702	1322.565	1322.854	1320.645	1320.689	1323.042	1325.196
42.0	1300.576	1301.364	1301.331	1302.130	1306.093	1306.193	1304.383	1304.450	1306.703	1308.868
42.5	1284.137	1284.670	1285.136	1285.724	1289.520	1289.864	1287.656	1287.733	1290.009	1292.073
43.0	1267.121	1267.942	1268.253	1268.730	1272.548	1272.881	1270.661	1270.983	1272.970	1275.201
43.5	1250.393	1251.192	1251.481	1252.058	1255.477	1256.187	1253.900	1253.978	1256.220	1258.529
44.0	1233.643	1234.342	1234.642	1235.086	1238.383	1239.126	1237.284	1237.051	1239.526	1241.635
44.5	1216.738	1217.137	1217.359	1217.748	1221.577	1222.132	1219.990	1219.757	1222.343	1224.397
45.0	1199.533	1199.910	1200.243	1200.654	1204.350	1204.705	1202.985	1203.085	1205.049	1207.358
45.5	1182.505	1182.894	1183.094	1183.515	1186.967	1187.567	1185.735	1185.824	1187.966	1190.353
46.0	1165.178	1165.544	1165.722	1166.310	1169.341	1170.306	1168.275	1168.497	1170.528	1172.771
46.5	1147.829	1148.484	1148.450	1148.961	1152.125	1152.924	1150.826	1150.992	1153.301	1155.310
47.0	1130.513	1130.801	1131.234	1131.490	1134.442	1135.253	1133.843	1133.543	1135.930	1138.094
47.5	1112.853	1113.241	1113.330	1113.896	1116.993	1117.581	1115.983	1116.038	1118.292	1120.046
48.0	1095.537	1095.870	1096.203	1096.536	1099.588	1100.132	1098.378	1098.778	1100.809	1102.685
48.5	1078.021	1078.332	1078.354	1078.976	1081.673	1082.505	1080.874	1080.962	1083.538	1085.136
49.0	1060.616	1060.383	1061.127	1061.204	1064.046	1064.890	1063.225	1063.369	1065.545	1067.665
49.5	1043.034	1042.812	1043.678	1043.744	1046.408	1047.218	1045.798	1045.975	1048.118	1049.783
50.0	1025.518	1025.363	1025.840	1026.251	1028.915	1029.192	1028.249	1028.226	1030.469	1032.333
50.5	1007.924	1007.647	1008.246	1008.368	1011.132	1011.754	1010.378	1010.566	1012.542	1014.385
51.0	990.542	990.309	990.620	990.697	993.572	993.994	992.640	992.762	995.048	997.013
51.5	972.948	972.593	972.993	973.193	975.635	976.345	975.057	975.346	977.488	979.120
52.0	955.477	954.977	955.377	955.532	958.052	958.707	957.431	957.686	959.462	961.293
52.5	937.761	937.406	937.750	937.917	940.370	940.914	940.004	940.059	941.957	943.700
53.0	920.201	919.935	920.190	920.479	922.754	923.298	922.554	922.454	924.364	926.073
53.5	902.441	902.197	902.807	902.952	905.061	905.749	904.839	904.706	906.848	908.369
54.0	884.892	884.936	885.392	885.358	887.412	888.089	887.312	887.501	889.376	890.953
54.5	867.720	867.665	868.009	868.220	870.096	870.706	869.940	870.096	871.827	873.248
55.0	850.671	850.282	850.482	850.726	852.380	853.002	852.369	852.491	854.411	855.888
55.5	833.233	832.988	833.199	833.388	835.275	835.708	835.097	835.042	837.095	838.416
56.0	816.227	815.539	816.005	816.194	817.970	818.447	818.026	817.826	820.079	821.156
56.5	798.800	798.301	798.823	798.889	800.810	801.109	800.787	800.632	802.475	803.618
57.0	781.673	781.318	781.607	781.806	783.527	783.982	783.638	783.283	785.414	786.502
57.5	765.179	764.635	764.801	764.890	766.466	766.943	766.189	766.699	768.631	769.508
58.0	747.752	747.541	747.752	747.818	749.450	749.949	749.639	749.583	751.359	752.180
58.5	731.335	730.880	730.946	731.301	732.789	733.122	732.711	732.767	734.831	735.442
59.0	714.707	714.318	714.352	714.729	716.261	716.205	716.017	716.283	718.070	718.792
59.5	697.968	697.824	697.635	698.079	699.389	699.711	699.333	699.333	701.098	701.920
60.0	681.440	681.340	681.274	681.518	682.794	683.338	682.794	682.894	684.692	685.325
60.5	665.212	664.901	664.957	665.134	666.411	666.888	666.666	666.910	668.242	668.975
61.0	648.973	648.573	648.795	648.862	650.060	650.471	650.238	650.238	652.058	652.602
61.5	632.878	632.700	632.589	632.989	633.699	634.476	633.888	634.121	635.808	636.419
62.0	617.060	616.627	616.849	616.971	617.615	618.337	618.303	618.348	619.757	620.079
62.5	601.043	600.899	600.699	600.688	601.864	602.253	602.020	602.453	603.896	604.484
63.0	585.392	584.970	585.281	585.092	585.803	586.779	586.269	586.668	588.178	588.589
63.5	569.841	569.386	569.574	569.541	570.418	570.940	570.984	571.095	572.471	573.115
64.0	554.301	554.245	554.334	554.001	555.022	555.411	555.311	555.355	557.120	557.498
64.5	539.183	538.705	538.816	538.727	539.671	539.971	540.415	540.259	541.625	542.279
65.0	523.820	523.676	523.654	523.654	524.475	524.886	525.008	525.296	526.373	526.906
65.5	508.957	508.658	508.769	508.535	509.268	509.723	510.101	510.212	511.266	511.943

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66.0	494.350	493.961	494.216	493.606	494.350	494.816	495.293	495.227	496.725	496.858
66.5	479.731	479.187	479.498	479.054	479.775	480.341	480.497	480.652	481.784	482.362
67.0	465.057	464.690	464.924	464.591	465.312	465.667	465.967	465.900	467.321	467.710
67.5	451.093	450.305	450.482	450.161	450.693	451.382	451.703	451.948	452.924	453.346
68.0	436.885	436.130	436.496	435.864	436.319	437.085	437.540	437.451	438.905	439.127
68.5	422.843	422.255	422.244	422.133	422.433	422.910	423.376	423.421	424.653	425.485
69.0	408.991	408.258	408.258	408.080	408.580	409.135	409.990	409.623	411.000	411.377
69.5	395.393	394.883	394.749	394.372	394.960	395.093	396.170	396.148	397.236	397.891
70.0	381.851	381.241	381.185	380.985	381.374	381.607	382.317	382.495	383.516	384.204
70.5	368.731	368.076	367.821	367.421	368.032	368.398	369.208	369.053	370.385	371.018
71.0	355.589	354.878	355.022	354.345	354.789	355.100	355.922	356.099	357.176	357.997
71.5	342.768	341.825	341.836	341.303	341.414	342.313	342.879	343.068	344.222	344.833
72.0	329.759	329.048	329.315	328.538	328.815	329.470	330.025	330.158	331.324	332.323
72.5	317.393	316.605	316.494	316.017	316.295	316.816	317.438	317.382	318.992	319.558
73.0	305.006	304.240	304.029	303.296	303.530	304.051	305.017	304.961	306.471	307.237
73.5	292.785	291.863	291.897	291.197	291.320	291.863	292.674	293.029	294.439	295.205
74.0	280.730	279.742	279.731	279.043	279.265	279.864	280.652	280.852	282.206	283.161
74.5	269.164	268.121	267.899	267.077	267.233	267.765	269.086	268.831	270.440	271.184
75.0	257.553	256.488	256.532	255.467	255.600	256.188	257.176	257.243	258.741	259.574
75.5	245.654	244.977	244.822	243.956	244.056	244.589	245.798	245.832	247.330	248.185
76.0	234.776	233.822	233.622	232.778	232.878	233.378	234.288	234.499	235.964	236.674
76.5	224.042	222.833	222.777	221.556	221.822	222.322	223.310	223.698	224.930	226.074
77.0	213.331	211.999	211.932	210.667	210.645	211.122	212.454	212.532	214.163	215.196
77.5	202.586	201.354	201.210	199.967	200.044	200.788	201.643	202.131	203.363	204.506
78.0	192.119	190.865	190.565	189.488	189.477	190.265	191.353	191.453	192.962	194.372
78.5	181.940	180.764	180.508	179.332	179.176	179.820	181.241	181.374	182.884	184.216
79.0	171.950	170.618	170.563	169.075	169.253	169.841	170.984	171.317	172.883	174.203
79.5	162.093	161.128	160.661	159.374	159.296	160.029	161.327	161.605	163.348	164.424
80.0	152.747	151.404	151.138	149.761	149.939	150.427	151.659	152.048	153.491	154.934
80.5	143.723	142.002	141.858	140.482	140.448	140.926	142.291	142.624	144.100	145.577
81.0	134.599	132.911	132.601	131.335	131.113	131.924	133.122	133.433	135.054	136.486
81.5	125.641	124.398	124.076	122.455	122.267	122.833	124.265	124.353	125.852	127.583
82.0	116.694	115.407	115.063	113.686	113.398	114.386	115.373	115.729	117.172	118.848
82.5	108.580	107.115	106.660	105.239	105.073	105.672	107.215	107.603	108.858	110.401
83.0	100.344	98.945	98.579	97.258	96.770	97.569	98.879	99.312	100.577	102.220
83.5	92.408	90.743	90.654	89.144	88.867	89.444	90.765	91.819	92.607	93.895
84.0	84.338	83.006	82.762	81.252	80.841	81.740	82.950	83.206	84.959	86.347
84.5	77.001	75.680	75.302	74.037	73.637	73.959	75.547	75.869	77.267	78.699
85.0	69.630	68.154	67.832	66.422	66.234	66.633	68.032	68.332	69.819	71.440
85.5	62.482	60.972	60.928	59.552	59.219	59.574	61.205	61.239	62.693	64.236
86.0	55.345	53.868	53.502	52.237	52.059	52.670	54.135	53.946	55.511	56.888
86.5	48.352	47.175	46.809	45.699	45.155	45.843	47.164	47.275	48.651	49.994
87.0	41.570	40.460	40.271	39.116	38.939	39.283	40.282	40.337	42.036	43.523
87.5	35.320	34.010	33.633	33.122	32.756	33.023	34.110	34.199	35.498	37.451
88.0	29.948	28.205	27.861	26.740	26.607	27.217	27.928	28.183	29.704	31.802
88.5	25.008	22.955	22.422	21.090	20.979	21.334	22.666	22.877	24.642	26.751
89.0	20.169	18.359	17.893	16.073	15.640	16.040	17.927	18.160	20.180	22.300
89.5	15.784	14.119	13.986	11.833	10.401	11.422	13.664	14.141	15.751	17.860
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

Angles	<u>225.0</u>	<u>230.0</u>	<u>240.0</u>	<u>247.5</u>	<u>250.0</u>	<u>260.0</u>	<u>270.0</u>	<u>280.0</u>	<u>290.0</u>	<u>292.5</u>
0.0	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129
0.5	2027.337	2026.627	2025.017	2023.608	2022.764	2019.756	2020.211	2021.243	2021.588	2021.155
1.0	2027.126	2026.394	2024.540	2023.241	2022.231	2019.323	2020.122	2021.033	2020.966	2020.755

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CANDELA TABULATION - (Cont.)

1.5	2026.827	2026.127	2024.163	2022.642	2021.843	2018.635	2019.301	2020.744	2020.533	2020.156
2.0	2026.227	2025.328	2023.519	2022.287	2021.121	2018.346	2018.768	2019.878	2019.723	2019.467
2.5	2024.995	2024.518	2022.709	2021.432	2020.034	2017.192	2017.825	2018.968	2018.801	2018.435
3.0	2024.462	2023.719	2021.854	2020.133	2019.368	2016.193	2016.770	2017.891	2017.780	2017.292
3.5	2023.064	2022.287	2020.466	2019.035	2017.814	2014.683	2015.372	2016.537	2016.415	2016.082
4.0	2021.632	2020.600	2018.579	2017.558	2016.204	2013.274	2014.151	2014.905	2014.717	2014.162
4.5	2019.989	2019.268	2017.425	2015.871	2014.650	2011.398	2012.519	2013.440	2012.974	2012.619
5.0	2018.280	2017.125	2015.616	2014.028	2013.041	2009.655	2010.288	2011.464	2011.231	2010.643
5.5	2016.293	2015.427	2013.629	2012.208	2010.876	2008.023	2008.345	2009.378	2008.789	2008.367
6.0	2014.028	2013.074	2011.387	2009.666	2008.634	2005.259	2005.992	2007.280	2006.514	2006.181
6.5	2011.631	2010.754	2008.756	2007.701	2006.125	2003.073	2003.495	2004.871	2004.016	2003.395
7.0	2009.045	2008.168	2005.992	2005.015	2003.617	2000.475	2000.675	2002.240	2001.741	2000.964
7.5	2005.981	2005.015	2003.705	2002.052	2000.930	1997.667	1998.200	1999.610	1998.677	1997.767
8.0	2003.039	2002.429	2000.553	1999.043	1997.945	1994.492	1994.936	1996.213	1995.558	1994.626
8.5	2000.142	1999.265	1997.356	1995.902	1994.570	1991.296	1991.495	1993.016	1992.250	1991.396
9.0	1996.324	1995.425	1993.838	1992.439	1991.296	1987.799	1987.966	1989.553	1988.532	1988.143
9.5	1992.783	1991.840	1990.064	1988.598	1988.043	1984.114	1984.580	1985.945	1985.257	1984.436
10.0	1988.976	1988.265	1986.079	1984.980	1983.814	1980.251	1980.074	1982.205	1981.328	1980.273
10.5	1984.935	1984.192	1982.338	1980.795	1979.674	1976.066	1976.288	1978.009	1976.888	1976.200
11.0	1980.728	1980.140	1978.020	1976.522	1975.389	1971.815	1972.315	1973.613	1972.692	1971.904
11.5	1976.344	1975.500	1973.735	1972.048	1970.794	1967.486	1967.864	1969.373	1967.997	1967.453
12.0	1971.826	1971.016	1968.996	1967.653	1966.332	1962.702	1963.113	1964.367	1963.224	1962.669
12.5	1966.987	1966.343	1964.056	1962.880	1961.659	1958.318	1958.140	1959.683	1958.373	1957.818
13.0	1961.714	1960.970	1959.172	1957.829	1956.719	1953.112	1953.345	1954.788	1953.300	1952.468
13.5	1956.675	1955.742	1953.989	1952.490	1951.369	1947.517	1948.006	1949.593	1947.884	1946.996
14.0	1951.247	1949.926	1948.494	1947.107	1946.052	1942.411	1942.345	1944.243	1942.489	1941.501
14.5	1945.319	1944.298	1942.922	1941.323	1940.380	1936.317	1936.817	1938.659	1936.495	1935.751
15.0	1939.625	1938.715	1936.939	1935.662	1934.752	1930.701	1930.656	1932.488	1930.590	1929.924
15.5	1933.442	1932.776	1930.856	1929.491	1928.558	1924.873	1924.751	1926.316	1924.451	1923.530
16.0	1927.149	1926.316	1924.784	1923.230	1922.032	1918.446	1918.280	1919.945	1918.136	1917.214
16.5	1920.600	1919.978	1918.358	1916.915	1915.793	1911.820	1911.820	1913.840	1911.431	1910.288
17.0	1913.773	1913.118	1911.709	1910.255	1909.200	1905.315	1905.393	1906.791	1904.516	1903.983
17.5	1906.703	1906.114	1904.771	1903.228	1902.529	1898.400	1898.400	1900.142	1897.678	1896.579
18.0	1899.843	1898.844	1897.700	1896.213	1895.236	1891.385	1891.163	1893.161	1890.463	1889.531
18.5	1891.973	1891.751	1890.508	1888.898	1888.032	1884.170	1883.825	1885.624	1883.048	1882.283
19.0	1884.447	1884.081	1882.893	1881.161	1880.362	1876.200	1876.222	1877.909	1875.412	1874.435
19.5	1876.744	1876.266	1875.045	1873.591	1872.803	1868.419	1868.452	1870.206	1867.542	1866.754
20.0	1868.696	1868.097	1867.009	1865.644	1864.600	1860.926	1860.194	1862.280	1859.383	1858.484
20.5	1860.227	1860.083	1859.117	1857.496	1856.553	1852.257	1852.068	1854.100	1851.114	1850.437
21.0	1852.057	1851.513	1850.548	1849.082	1848.294	1844.143	1843.799	1845.530	1843.055	1841.779
21.5	1843.477	1842.733	1841.901	1840.358	1839.481	1835.540	1835.307	1837.094	1833.809	1832.965
22.0	1834.097	1834.053	1833.098	1831.500	1830.434	1826.660	1826.561	1828.226	1824.807	1824.385
22.5	1825.251	1824.807	1824.307	1822.664	1821.887	1817.836	1817.414	1819.323	1816.049	1815.283
23.0	1815.627	1815.716	1814.539	1813.396	1812.619	1808.701	1808.434	1810.166	1806.558	1805.948
23.5	1806.481	1805.870	1805.382	1803.817	1803.051	1799.243	1798.910	1800.509	1797.046	1796.158
24.0	1796.147	1796.335	1795.403	1794.260	1793.571	1789.509	1789.509	1791.063	1787.389	1786.623
24.5	1786.390	1786.334	1785.502	1784.403	1783.592	1779.674	1779.663	1781.250	1777.388	1776.611
25.0	1776.200	1776.122	1775.390	1774.046	1773.869	1769.884	1769.618	1770.639	1767.153	1766.288
25.5	1765.599	1765.721	1764.833	1763.901	1763.291	1759.961	1759.250	1760.738	1757.086	1756.131
26.0	1755.154	1754.821	1754.644	1753.589	1752.790	1749.527	1748.905	1750.004	1745.963	1745.531
26.5	1743.777	1744.265	1743.755	1742.978	1742.367	1738.493	1738.016	1739.303	1735.629	1734.320
27.0	1733.165	1733.121	1732.788	1731.800	1731.667	1727.782	1727.438	1728.503	1724.696	1723.508
27.5	1721.721	1721.732	1721.632	1720.889	1720.533	1716.715	1716.127	1717.514	1713.252	1712.253
28.0	1710.055	1710.521	1710.244	1709.500	1709.089	1705.670	1704.993	1706.015	1701.941	1700.520
28.5	1698.500	1698.744	1698.744	1697.867	1697.590	1694.193	1693.460	1694.548	1690.452	1689.242
29.0	1686.900	1686.712	1687.189	1686.001	1685.835	1682.660	1681.739	1682.760	1678.764	1677.721

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29.5	1674.424	1674.402	1675.090	1674.091	1674.169	1670.761	1670.095	1670.739	1666.798	1665.444
30.0	1662.147	1662.114	1662.547	1662.047	1662.014	1658.540	1657.963	1658.695	1654.688	1653.112
30.5	1649.338	1649.538	1650.359	1650.004	1649.538	1646.163	1645.420	1646.541	1642.267	1640.957
31.0	1636.551	1636.862	1637.650	1637.039	1636.906	1633.964	1633.032	1633.853	1629.658	1628.048
31.5	1623.786	1623.974	1624.829	1624.196	1624.396	1621.166	1620.545	1621.066	1616.748	1615.461
32.0	1610.566	1610.932	1611.942	1611.365	1611.376	1608.157	1607.469	1608.201	1603.661	1602.507
32.5	1597.101	1597.490	1598.833	1598.278	1598.256	1595.203	1594.271	1594.892	1590.641	1589.176
33.0	1583.326	1583.726	1585.346	1584.814	1584.625	1581.950	1580.984	1581.739	1577.232	1575.534
33.5	1569.740	1570.306	1571.993	1571.349	1571.372	1568.885	1567.709	1568.042	1563.679	1562.192
34.0	1555.765	1556.187	1557.996	1557.463	1557.352	1555.032	1553.989	1554.422	1549.704	1548.239
34.5	1541.768	1542.079	1543.977	1543.622	1543.610	1540.924	1540.003	1540.469	1535.885	1534.431
35.0	1527.249	1527.815	1529.769	1529.780	1529.691	1527.171	1525.973	1526.128	1521.755	1520.156
35.5	1512.786	1513.219	1515.294	1515.217	1515.494	1512.908	1511.798	1511.920	1507.202	1505.704
36.0	1498.034	1498.589	1500.798	1500.887	1500.798	1498.556	1497.335	1497.590	1492.761	1491.041
36.5	1482.893	1483.826	1486.057	1486.268	1486.290	1484.015	1482.782	1482.838	1478.420	1476.589
37.0	1468.230	1468.641	1470.828	1471.183	1471.194	1469.018	1467.975	1467.797	1463.091	1461.215
37.5	1452.757	1453.490	1455.843	1456.320	1456.031	1454.322	1452.779	1452.679	1447.840	1446.585
38.0	1437.639	1438.249	1440.580	1440.836	1441.102	1438.860	1437.894	1437.628	1433.099	1431.223
38.5	1422.088	1422.643	1425.173	1425.551	1425.540	1423.353	1422.199	1422.043	1417.381	1415.550
39.0	1406.437	1407.103	1409.445	1409.744	1410.133	1408.124	1406.825	1406.592	1401.786	1400.054
39.5	1390.808	1391.230	1393.971	1394.049	1394.116	1392.662	1391.230	1391.219	1385.979	1384.259
40.0	1374.402	1375.301	1377.588	1377.854	1378.354	1376.622	1375.201	1375.090	1370.195	1368.486
40.5	1358.818	1359.140	1361.437	1362.092	1362.081	1360.793	1359.239	1359.162	1354.211	1352.324
41.0	1342.379	1342.867	1345.653	1345.953	1346.141	1344.299	1342.922	1342.811	1337.916	1336.052
41.5	1325.751	1326.494	1329.014	1329.414	1329.780	1328.137	1326.761	1326.284	1321.422	1319.446
42.0	1309.445	1310.111	1312.819	1312.964	1313.197	1311.731	1310.011	1309.667	1305.127	1303.218
42.5	1292.795	1293.516	1295.803	1296.125	1296.413	1295.115	1293.794	1293.239	1288.322	1286.679
43.0	1276.067	1276.445	1278.953	1279.386	1279.530	1278.398	1276.711	1276.378	1271.583	1269.440
43.5	1259.073	1259.750	1262.003	1262.447	1262.692	1261.337	1260.094	1259.306	1254.755	1252.946
44.0	1242.112	1242.889	1245.120	1245.487	1245.686	1244.232	1242.767	1242.368	1237.761	1235.741
44.5	1224.996	1225.640	1227.915	1228.348	1228.493	1227.194	1225.396	1225.118	1220.700	1218.802
45.0	1207.636	1208.546	1210.788	1211.121	1211.421	1210.089	1208.679	1207.747	1203.373	1201.298
45.5	1190.819	1191.319	1193.405	1193.861	1193.849	1192.529	1191.197	1190.109	1186.124	1184.037
46.0	1173.292	1174.136	1175.945	1176.223	1176.489	1175.290	1173.559	1172.837	1168.253	1166.610
46.5	1155.965	1156.498	1158.485	1158.773	1158.918	1157.608	1155.976	1155.244	1150.981	1148.994
47.0	1138.316	1139.071	1140.736	1141.358	1141.258	1140.236	1138.627	1137.628	1133.399	1131.689
47.5	1120.845	1121.622	1123.276	1123.364	1123.487	1122.365	1120.689	1119.657	1115.583	1113.852
48.0	1103.384	1103.906	1105.471	1105.571	1105.882	1104.583	1102.940	1102.075	1098.034	1096.558
48.5	1085.769	1086.268	1087.844	1087.645	1087.922	1086.779	1084.859	1084.137	1080.208	1078.565
49.0	1067.820	1068.453	1069.807	1069.807	1069.785	1068.608	1067.065	1066.100	1062.059	1060.583
49.5	1050.304	1050.893	1051.892	1052.136	1052.003	1050.893	1049.105	1047.962	1044.255	1042.823
50.0	1032.711	1033.244	1034.054	1034.176	1034.309	1032.911	1031.190	1029.980	1026.528	1024.863
50.5	1014.818	1015.239	1016.316	1015.994	1016.094	1014.751	1012.853	1012.076	1008.335	1006.981
51.0	997.080	997.712	998.279	998.057	998.023	996.758	994.937	994.016	990.575	989.188
51.5	979.320	979.697	980.408	980.008	979.875	978.776	976.833	976.201	972.538	971.183
52.0	961.671	962.414	962.503	962.237	962.181	960.616	958.962	958.074	954.445	953.201
52.5	943.966	944.510	944.632	944.244	944.333	942.645	940.747	939.804	936.607	935.120
53.0	926.206	926.417	926.761	926.129	926.351	924.830	922.943	921.877	918.481	917.659
53.5	908.468	908.668	908.713	908.269	908.258	906.748	904.661	903.917	900.587	899.355
54.0	890.964	891.363	891.064	890.398	890.498	889.132	886.990	885.813	882.683	881.706
54.5	873.415	873.626	873.614	872.715	872.860	870.862	869.163	868.064	865.101	864.157
55.0	855.854	856.032	855.721	854.989	854.689	853.113	851.070	850.205	847.296	845.909
55.5	838.527	838.583	838.083	836.996	836.996	835.419	833.555	832.433	829.792	828.571
56.0	821.267	821.289	820.401	819.668	819.347	817.770	815.828	814.829	811.743	811.121
56.5	803.862	803.751	802.963	801.897	801.831	800.066	798.234	797.202	794.394	793.550
57.0	786.457	786.346	785.847	784.581	784.437	782.761	780.441	779.586	776.911	776.179

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57.5	769.330	769.463	768.475	767.376	767.188	765.301	763.169	762.004	759.984	759.129
58.0	752.158	752.214	751.193	749.816	749.639	747.796	745.865	744.832	742.368	741.724
58.5	735.253	735.453	734.154	732.789	732.656	730.524	728.582	727.827	725.474	724.763
59.0	718.459	718.525	717.371	715.761	715.373	713.497	711.632	710.655	708.557	708.036
59.5	701.742	701.553	700.332	698.545	698.323	696.536	694.449	693.473	691.685	691.075
60.0	685.181	685.114	683.582	682.028	681.607	679.731	677.833	676.834	674.836	674.192
60.5	668.753	668.531	666.877	665.301	665.434	663.225	661.172	660.295	658.330	657.719
61.0	652.347	651.914	650.471	648.684	648.529	646.331	644.300	643.478	641.869	641.247
61.5	636.185	635.775	634.121	632.356	632.001	630.369	628.082	627.228	625.396	624.986
62.0	620.057	619.802	618.081	616.350	615.761	614.019	612.021	610.911	609.379	609.013
62.5	603.940	603.662	602.086	599.933	599.822	597.935	595.826	594.760	593.328	592.940
63.0	588.378	587.712	586.191	584.304	584.038	581.940	579.920	578.954	577.522	576.978
63.5	572.682	572.138	570.496	568.498	568.364	566.189	564.224	563.392	561.849	561.505
64.0	557.087	556.732	554.834	552.802	552.713	550.582	548.673	547.341	546.198	545.609
64.5	541.869	541.414	539.582	537.640	537.384	535.142	533.155	532.278	530.946	530.358
65.0	526.584	526.107	524.209	522.188	522.000	519.869	517.970	516.827	515.817	515.406
65.5	511.410	511.277	509.312	507.181	506.560	504.961	502.752	501.776	500.777	500.188
66.0	496.736	496.214	494.583	492.551	491.952	489.887	488.045	487.101	485.991	485.725
66.5	482.040	481.463	479.731	477.533	477.233	475.402	473.459	472.538	471.439	471.128
67.0	467.343	466.955	465.112	463.225	462.648	460.706	458.696	457.908	456.743	456.510
67.5	453.169	452.702	450.838	448.873	448.440	446.553	444.433	443.556	442.801	442.402
68.0	438.972	438.816	436.663	434.865	434.399	432.389	430.447	429.626	428.649	428.438
68.5	424.941	424.397	422.877	420.834	420.279	418.492	416.750	415.595	414.996	414.585
69.0	411.266	410.722	408.968	407.104	406.593	404.462	402.675	401.998	400.999	400.766
69.5	397.469	397.047	395.493	393.340	393.273	391.153	389.133	388.467	387.579	387.434
70.0	384.093	383.516	381.796	379.920	379.676	377.833	376.013	375.180	374.403	374.003
70.5	370.707	370.130	368.598	366.844	366.411	364.691	362.926	362.093	361.349	360.939
71.0	357.764	357.331	355.666	354.168	353.413	351.626	349.939	349.295	348.540	348.174
71.5	344.688	344.455	342.624	341.170	340.581	338.961	337.185	344.056	336.030	335.342
72.0	331.968	331.624	330.181	328.571	328.061	326.507	324.686	324.009	323.487	323.043
72.5	319.458	319.003	317.893	316.139	315.717	314.152	312.587	311.788	311.066	313.631
73.0	306.959	306.715	305.206	303.774	303.507	301.831	300.277	299.522	298.879	298.424
73.5	294.927	294.705	293.195	291.841	291.575	289.888	288.489	287.645	286.891	286.702
74.0	282.917	282.773	281.663	280.220	279.676	278.366	276.901	275.802	275.280	275.158
74.5	271.262	270.951	269.908	268.365	267.921	266.600	265.168	264.369	263.969	263.581
75.0	259.640	259.629	258.641	257.032	256.765	255.455	253.913	253.280	252.558	252.214
75.5	248.440	248.207	247.175	245.865	245.643	244.422	242.901	242.369	241.614	241.159
76.0	237.152	236.907	236.097	234.721	234.698	233.200	232.034	231.346	230.625	230.347
76.5	225.941	227.883	225.230	224.065	223.843	222.588	221.467	220.879	219.924	219.902
77.0	215.540	217.760	214.752	213.475	213.242	212.343	210.856	210.434	209.479	209.424
77.5	204.906	204.828	204.085	203.030	203.008	201.643	200.533	200.089	199.345	199.245
78.0	194.627	194.450	194.017	192.840	192.752	191.575	190.476	190.088	189.177	189.044
78.5	184.338	184.526	183.772	182.895	182.884	181.774	180.863	180.442	179.409	179.420
79.0	174.437	174.470	173.948	173.271	172.949	172.072	171.095	170.629	170.052	169.630
79.5	164.813	164.979	164.680	163.625	163.714	162.759	161.749	161.128	160.451	160.384
80.0	155.311	155.411	154.912	154.612	154.168	153.469	152.536	152.126	151.526	150.838
80.5	145.632	146.109	145.810	145.288	145.188	144.311	143.490	143.168	142.313	142.102
81.0	136.774	137.041	137.007	136.264	136.286	135.664	134.754	134.255	133.544	133.478
81.5	128.150	128.305	128.061	127.717	127.439	126.984	126.129	125.785	124.997	124.742
82.0	119.492	119.536	119.702	119.203	118.892	118.670	117.882	117.349	116.594	116.395
82.5	110.989	110.978	111.244	111.022	110.700	110.423	109.846	109.379	108.580	108.447
83.0	102.764	103.197	103.208	102.786	102.819	102.398	101.709	101.521	100.699	100.400
83.5	94.594	95.016	95.482	94.961	94.805	94.461	94.050	93.839	92.818	92.718
84.0	86.802	87.080	87.435	87.324	87.313	87.080	86.591	86.125	85.381	84.882
84.5	79.310	79.631	79.920	79.853	79.853	79.787	79.287	78.977	78.166	77.833
85.0	71.972	72.294	72.527	72.860	72.872	72.727	72.405	71.984	71.195	70.862

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85.5	64.491	65.024	65.845	65.901	65.890	65.923	65.712	65.168	64.724	64.180
86.0	57.631	58.175	58.997	59.252	59.485	59.640	59.274	58.874	57.998	57.642
86.5	51.016	51.548	52.636	52.869	53.025	53.247	52.947	52.670	51.804	51.471
87.0	44.589	45.221	46.553	46.831	46.886	47.342	47.064	46.931	45.821	45.543
87.5	38.539	39.272	40.571	41.225	41.103	41.669	41.481	41.248	40.226	39.827
88.0	32.867	33.666	35.120	35.476	35.553	36.075	35.842	35.687	34.776	34.588
88.5	27.650	28.605	29.770	30.314	30.547	30.969	30.947	30.902	29.937	29.504
89.0	22.977	23.810	25.319	25.430	25.952	26.163	26.030	26.041	25.130	24.864
89.5	18.948	19.603	21.012	21.434	21.789	21.756	21.645	21.634	21.001	21.345
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>300.0</u>	<u>310.0</u>	<u>315.0</u>	<u>320.0</u>	<u>330.0</u>	<u>337.5</u>	<u>340.0</u>	<u>350.0</u>	<u>360.0</u>
0.0	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129	2024.129
0.5	2021.510	2023.153	2024.518	2024.862	2023.774	2024.307	2024.174	2026.116	2029.424
1.0	2021.055	2022.775	2023.941	2024.396	2023.819	2023.819	2023.885	2025.828	2028.858
1.5	2020.522	2022.254	2023.352	2023.941	2022.675	2023.186	2023.175	2024.962	2028.281
2.0	2019.911	2021.377	2022.587	2022.942	2022.265	2022.509	2022.265	2023.952	2027.260
2.5	2018.624	2020.089	2021.166	2021.621	2021.088	2021.099	2021.144	2022.675	2026.050
3.0	2017.714	2018.890	2020.122	2020.489	2019.856	2020.089	2019.945	2021.754	2024.807
3.5	2016.071	2017.281	2018.801	2019.001	2018.202	2018.369	2018.302	2019.923	2023.208
4.0	2014.739	2015.849	2017.192	2017.403	2016.459	2016.371	2016.382	2017.991	2021.288
4.5	2012.796	2013.917	2014.994	2015.194	2014.062	2014.572	2014.373	2015.782	2019.245
5.0	2010.920	2012.119	2013.229	2013.429	2012.341	2012.297	2012.397	2013.496	2017.014
5.5	2008.478	2009.766	2011.054	2010.998	2009.833	2009.844	2009.910	2010.976	2014.361
6.0	2006.436	2007.146	2008.556	2008.634	2007.568	2007.368	2007.513	2008.245	2011.764
6.5	2003.639	2004.593	2005.726	2005.715	2004.671	2004.327	2004.593	2005.637	2008.934
7.0	2000.897	2001.841	2002.995	2003.006	2001.863	2001.397	2001.508	2002.573	2006.003
7.5	1997.789	1998.666	1999.443	1999.876	1998.722	1998.466	1998.389	1999.332	2002.851
8.0	1994.825	1995.780	1996.801	1996.646	1995.702	1995.136	1995.003	1995.847	1999.332
8.5	1991.373	1991.806	1993.072	1993.271	1991.939	1991.740	1991.329	1992.084	1995.658
9.0	1987.910	1988.154	1989.475	1989.431	1987.888	1987.588	1987.200	1987.999	1991.573
9.5	1984.169	1984.469	1985.424	1985.757	1984.003	1983.492	1983.326	1984.158	1987.744
10.0	1979.951	1980.584	1981.250	1981.172	1979.951	1978.919	1979.097	1979.796	1983.082
10.5	1975.967	1976.433	1977.143	1977.154	1975.356	1974.390	1974.524	1975.201	1978.464
11.0	1971.404	1971.915	1972.581	1972.437	1970.594	1969.961	1969.751	1970.505	1973.780
11.5	1966.942	1967.075	1968.119	1967.708	1965.721	1965.144	1964.667	1965.566	1968.718
12.0	1962.103	1962.425	1963.046	1962.791	1960.737	1960.105	1959.749	1960.382	1963.446
12.5	1957.008	1957.563	1957.929	1957.574	1955.820	1954.588	1954.521	1954.521	1958.395
13.0	1951.913	1951.780	1952.335	1952.734	1950.104	1948.960	1948.783	1949.049	1952.423
13.5	1946.496	1946.341	1946.996	1946.774	1944.520	1943.444	1943.000	1943.310	1946.907
14.0	1940.902	1940.458	1941.124	1941.146	1938.671	1937.261	1937.128	1937.272	1940.569
14.5	1935.263	1934.841	1934.530	1934.897	1932.710	1931.300	1930.778	1931.034	1934.386
15.0	1928.869	1928.592	1928.803	1928.348	1926.250	1924.485	1924.529	1924.585	1927.559
15.5	1922.798	1922.054	1922.409	1922.087	1919.545	1918.102	1917.869	1917.614	1920.955
16.0	1916.704	1915.505	1915.893	1915.694	1912.552	1911.254	1911.043	1910.599	1913.718
16.5	1909.655	1909.145	1909.145	1908.412	1905.581	1904.150	1903.561	1903.484	1906.836
17.0	1902.385	1902.085	1901.730	1901.574	1899.021	1896.923	1896.402	1896.191	1899.310
17.5	1895.447	1894.515	1894.337	1894.126	1891.151	1889.498	1888.843	1888.499	1891.629
18.0	1888.521	1887.266	1886.845	1886.556	1883.603	1881.938	1881.261	1880.795	1884.081
18.5	1880.884	1879.685	1879.474	1879.108	1876.133	1873.824	1873.569	1872.637	1875.767
19.0	1873.103	1871.926	1871.449	1871.005	1867.753	1865.710	1865.233	1864.534	1867.864
19.5	1865.078	1863.746	1863.146	1862.758	1859.528	1857.485	1856.930	1856.408	1859.405
20.0	1856.875	1855.343	1854.921	1854.499	1851.114	1848.916	1848.483	1847.684	1850.614
20.5	1848.416	1846.918	1846.596	1845.519	1842.356	1840.247	1839.770	1838.726	1841.490

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CANDELA TABULATION - (Cont.)

21.0	1839.958	1838.249	1837.672	1836.906	1833.809	1831.356	1830.756	1829.868	1832.566
21.5	1831.156	1829.236	1828.603	1828.148	1824.718	1821.754	1821.721	1820.678	1823.697
22.0	1822.298	1820.222	1819.301	1818.713	1815.372	1812.963	1812.430	1811.309	1814.295
22.5	1812.941	1811.021	1810.121	1809.222	1805.892	1803.306	1802.507	1801.730	1804.516
23.0	1803.728	1801.419	1800.487	1799.854	1796.346	1793.660	1793.016	1791.884	1794.926
23.5	1794.082	1791.662	1790.552	1790.008	1786.501	1783.592	1783.049	1781.772	1784.636
24.0	1784.147	1781.661	1780.507	1779.608	1776.155	1773.614	1773.214	1771.727	1774.413
24.5	1774.268	1771.394	1770.017	1769.695	1765.744	1763.346	1762.835	1761.326	1764.167
25.0	1764.012	1761.082	1759.694	1758.895	1755.310	1752.512	1752.113	1750.736	1753.667
25.5	1753.234	1750.481	1748.983	1748.039	1744.587	1742.178	1741.546	1740.003	1742.944
26.0	1742.756	1739.381	1738.160	1737.305	1733.665	1731.078	1730.412	1728.925	1731.944
26.5	1731.556	1728.270	1726.783	1726.139	1722.620	1719.779	1719.423	1717.936	1720.422
27.0	1720.722	1717.314	1715.561	1715.039	1711.176	1708.523	1707.979	1706.836	1709.189
27.5	1709.422	1705.604	1704.449	1703.561	1699.976	1697.190	1696.635	1695.092	1697.556
28.0	1697.789	1694.160	1692.617	1691.596	1688.010	1685.402	1685.036	1683.337	1685.591
28.5	1686.323	1682.194	1680.662	1679.463	1676.278	1673.714	1672.859	1671.438	1674.058
29.0	1674.357	1670.450	1668.508	1667.431	1664.012	1661.293	1660.738	1659.350	1661.859
29.5	1662.281	1657.896	1656.409	1654.988	1652.213	1649.127	1648.228	1647.129	1649.183
30.0	1650.015	1645.397	1643.788	1642.811	1639.415	1636.828	1636.051	1634.586	1636.451
30.5	1637.250	1632.743	1631.156	1630.157	1626.805	1624.097	1623.464	1621.610	1623.963
31.0	1624.529	1620.034	1618.347	1616.993	1613.929	1611.043	1610.399	1608.679	1610.810
31.5	1611.665	1607.069	1605.271	1604.228	1600.742	1597.889	1597.490	1595.736	1597.590
32.0	1598.522	1594.004	1592.117	1590.808	1587.611	1584.603	1584.037	1582.216	1584.347
32.5	1585.158	1580.218	1578.398	1577.288	1574.069	1571.194	1570.595	1568.730	1570.595
33.0	1571.927	1566.698	1564.723	1563.746	1560.549	1557.563	1557.030	1555.343	1556.919
33.5	1557.952	1552.946	1551.158	1549.926	1546.619	1543.677	1542.978	1541.191	1543.078
34.0	1544.188	1539.182	1537.283	1535.474	1532.510	1529.647	1528.947	1527.027	1529.092
34.5	1530.080	1524.829	1522.853	1521.422	1518.413	1515.272	1514.784	1513.163	1514.628
35.0	1515.994	1510.355	1508.501	1507.114	1503.961	1501.153	1500.121	1498.722	1500.431
35.5	1501.031	1496.003	1494.027	1492.517	1489.354	1486.756	1485.535	1483.870	1485.302
36.0	1486.778	1481.473	1479.131	1477.832	1474.746	1471.816	1470.794	1469.030	1471.039
36.5	1472.060	1466.488	1464.257	1462.869	1459.761	1456.864	1455.854	1454.422	1455.510
37.0	1456.664	1451.303	1449.183	1447.795	1444.643	1441.812	1440.858	1438.860	1440.403
37.5	1441.646	1436.151	1434.109	1432.377	1429.280	1426.295	1425.717	1423.864	1425.240
38.0	1426.394	1420.922	1418.624	1417.170	1414.085	1410.988	1410.222	1408.279	1409.989
38.5	1410.965	1405.249	1403.118	1401.442	1398.378	1395.481	1394.815	1392.806	1394.149
39.0	1395.292	1389.631	1387.511	1386.024	1382.738	1379.885	1378.931	1376.988	1378.154
39.5	1379.841	1373.847	1371.372	1370.162	1366.810	1364.012	1363.358	1360.916	1362.436
40.0	1363.513	1357.963	1355.588	1353.767	1350.715	1348.073	1346.874	1344.809	1346.363
40.5	1347.329	1341.935	1339.670	1337.961	1334.753	1331.767	1331.123	1328.737	1329.969
41.0	1331.523	1325.540	1323.586	1321.788	1318.258	1315.650	1314.950	1312.320	1313.985
41.5	1314.662	1309.201	1306.870	1305.460	1301.897	1299.222	1298.334	1296.180	1297.068
42.0	1298.334	1292.995	1290.686	1288.643	1285.424	1282.694	1282.039	1279.641	1280.718
42.5	1281.417	1276.078	1273.803	1272.005	1268.830	1266.255	1265.300	1263.025	1264.046
43.0	1264.845	1259.395	1257.097	1255.432	1251.991	1249.294	1248.295	1246.175	1247.063
43.5	1247.973	1242.667	1240.425	1238.727	1235.264	1232.444	1231.501	1229.303	1229.791
44.0	1230.890	1225.584	1223.486	1221.611	1218.081	1215.705	1214.862	1212.231	1213.097
44.5	1213.929	1208.479	1206.037	1204.450	1201.164	1198.500	1197.501	1195.115	1195.836
45.0	1196.758	1191.596	1189.232	1187.589	1184.015	1181.251	1180.385	1178.165	1178.887
45.5	1179.375	1174.280	1171.916	1170.417	1167.087	1164.357	1163.380	1160.871	1161.437
46.0	1162.004	1156.886	1154.744	1152.857	1149.427	1147.019	1145.853	1143.333	1144.022
46.5	1144.810	1139.659	1137.273	1135.785	1132.089	1129.525	1128.415	1126.128	1126.872
47.0	1127.039	1122.254	1119.979	1118.336	1114.784	1112.342	1111.354	1108.835	1109.279
47.5	1109.378	1104.561	1102.730	1100.732	1097.180	1094.615	1093.861	1091.352	1091.707
48.0	1091.963	1087.434	1084.903	1083.160	1079.875	1077.200	1076.189	1074.036	1074.003
48.5	1074.391	1069.663	1067.654	1065.545	1062.370	1059.650	1058.862	1056.831	1056.387

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CANDELA TABULATION - (Cont.)

49.0	1056.676	1051.980	1049.938	1048.018	1044.954	1042.179	1041.125	1038.649	1038.749
49.5	1038.871	1034.509	1032.278	1030.679	1027.272	1024.719	1023.920	1021.500	1021.244
50.0	1020.878	1016.738	1014.962	1013.042	1009.811	1006.937	1005.960	1003.962	1003.718
50.5	1003.140	999.167	997.146	995.426	992.029	989.565	988.488	986.279	986.113
51.0	985.547	981.407	979.608	977.677	974.613	972.060	971.028	968.775	968.364
51.5	967.976	963.802	962.015	960.072	956.942	954.389	953.368	951.326	950.959
52.0	949.949	946.086	944.233	942.612	939.326	936.585	935.697	933.610	933.432
52.5	932.045	928.360	926.728	925.263	922.088	919.258	918.181	916.061	915.794
53.0	914.285	910.899	909.179	907.758	904.295	901.875	900.865	898.834	898.345
53.5	896.658	893.239	891.652	889.909	886.724	884.415	883.394	881.340	880.863
54.0	879.031	875.779	874.136	872.649	869.507	866.966	866.044	864.179	863.336
54.5	861.582	858.219	856.776	855.410	852.247	849.527	848.828	846.619	846.242
55.0	843.622	840.714	839.238	838.028	835.120	832.511	831.368	829.436	828.815
55.5	826.351	823.620	822.055	820.690	817.637	815.439	814.307	812.109	811.676
56.0	808.979	806.282	804.817	803.651	800.432	798.201	797.002	795.115	794.605
56.5	791.419	789.044	787.490	786.357	783.260	780.963	779.853	777.999	777.488
57.0	774.269	771.883	770.429	769.286	766.610	764.091	762.959	761.205	760.517
57.5	756.976	754.867	753.302	752.636	749.683	747.241	746.253	744.211	743.722
58.0	739.926	737.750	736.596	735.453	732.822	730.424	729.470	727.627	727.006
58.5	723.110	721.178	719.913	718.903	716.261	713.575	712.864	710.877	710.289
59.0	706.249	704.672	703.174	702.319	699.578	697.224	696.425	694.705	693.695
59.5	689.277	687.734	686.702	685.603	683.194	680.752	679.731	678.221	677.222
60.0	672.693	671.028	670.451	669.541	666.833	664.291	663.414	661.438	661.160
60.5	656.254	654.978	653.879	653.091	650.782	648.384	647.374	645.498	644.788
61.0	639.860	638.505	637.717	636.785	634.409	631.934	631.146	629.670	628.737
61.5	623.720	622.632	621.733	620.890	618.303	616.228	615.262	613.575	612.620
62.0	607.825	606.748	605.882	605.072	602.697	600.499	599.655	597.757	596.958
62.5	591.852	590.742	590.087	589.377	587.234	584.715	583.982	582.228	581.407
63.0	576.035	575.158	574.392	573.626	571.628	569.042	568.320	566.722	565.889
63.5	560.561	559.718	558.985	558.341	556.310	553.690	552.902	551.470	550.704
64.0	544.799	544.344	543.634	543.023	540.903	538.616	537.895	536.186	535.342
64.5	529.859	529.326	528.582	527.849	525.796	523.731	522.655	521.023	520.224
65.0	514.707	514.263	513.519	512.942	510.866	508.924	507.725	506.171	505.383
65.5	499.689	499.345	498.434	498.113	496.137	493.950	493.095	491.197	490.442
66.0	485.325	484.737	484.038	483.572	481.440	479.298	478.543	477.023	476.057
66.5	470.462	470.252	469.719	468.997	467.199	464.879	464.069	462.415	461.349
67.0	456.232	455.888	455.400	454.978	452.813	450.771	449.828	448.329	447.197
67.5	441.947	441.691	441.003	440.781	438.705	436.419	435.731	434.210	433.444
68.0	427.927	427.505	427.139	426.684	424.875	422.477	422.011	420.379	419.380
68.5	414.052	413.897	413.475	412.865	410.978	409.091	408.047	406.604	405.450
69.0	400.499	400.288	399.822	399.267	397.447	395.249	394.550	393.218	392.130
69.5	387.079	386.791	386.347	385.880	383.849	382.007	381.107	379.764	378.677
70.0	373.604	373.448	373.104	372.705	370.440	368.653	367.810	366.078	365.279
70.5	360.628	360.461	359.751	359.662	357.698	355.677	354.767	353.313	352.469
71.0	347.930	347.696	347.208	347.030	344.666	342.557	341.980	340.282	339.560
71.5	335.142	334.887	334.365	333.944	332.190	329.870	329.282	327.750	326.784
72.0	322.688	322.477	321.944	321.478	319.591	317.582	316.883	315.273	314.330
72.5	310.367	310.134	309.490	309.335	307.403	305.228	304.562	302.852	301.853
73.0	298.335	298.013	297.425	296.992	295.105	293.040	292.319	290.487	289.588
73.5	286.436	286.258	285.603	284.993	283.194	281.019	280.430	278.699	277.877
74.0	274.670	274.381	274.092	273.548	271.439	269.530	268.775	266.822	266.100
74.5	263.192	262.659	262.271	261.927	259.740	257.675	257.043	255.400	254.357
75.0	252.059	251.404	250.904	250.505	248.662	246.254	245.388	244.078	243.157
75.5	241.037	240.482	242.579	239.582	237.329	235.376	234.465	232.778	231.946
76.0	230.780	229.459	228.804	228.294	226.396	224.198	223.443	221.723	220.912
76.5	220.668	218.737	218.348	217.715	215.684	213.675	212.743	210.978	209.879

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CANDELA TABULATION - (Cont.)

77.0	208.991	208.547	208.403	207.182	205.128	202.986	202.431	200.344	199.467
77.5	198.546	200.066	197.447	196.970	194.705	192.430	191.775	189.843	189.144
78.0	188.633	188.012	187.301	186.580	184.526	182.451	181.563	179.887	179.065
78.5	178.943	178.166	177.389	176.634	174.437	172.483	171.872	169.874	169.009
79.0	169.053	168.409	167.765	167.022	164.802	162.926	161.860	160.140	159.507
79.5	159.629	158.874	158.186	158.164	155.467	153.258	152.647	150.572	149.806
80.0	150.572	149.828	149.029	148.418	146.076	144.134	143.268	141.581	140.482
80.5	141.558	140.637	139.993	139.205	137.185	135.032	134.155	132.356	131.535
81.0	132.723	132.023	131.113	130.469	128.061	126.285	125.252	123.721	122.711
81.5	124.265	123.232	122.633	121.678	119.503	117.516	116.794	115.063	114.130
82.0	115.684	115.040	114.041	113.309	111.044	109.335	108.269	106.493	105.361
82.5	107.592	106.616	105.994	105.028	102.930	100.988	100.411	98.579	97.458
83.0	99.734	98.712	97.880	97.181	95.060	93.118	92.852	90.532	89.666
83.5	91.753	90.854	90.099	89.477	87.202	85.170	84.482	82.884	81.863
84.0	84.282	83.150	82.573	81.674	79.654	77.722	76.956	75.480	74.448
84.5	76.990	75.835	74.969	74.381	72.194	70.418	69.830	67.921	67.199
85.0	69.952	68.531	67.588	66.944	65.002	63.159	62.582	60.761	59.973
85.5	63.226	61.727	60.551	59.951	57.920	56.377	55.544	54.057	53.313
86.0	56.588	55.112	54.135	53.380	51.271	49.439	48.851	47.408	46.576
86.5	50.216	48.873	47.774	46.709	44.544	42.802	42.125	40.837	40.182
87.0	44.400	42.602	41.592	40.493	38.384	36.486	35.731	34.843	33.866
87.5	38.772	36.941	35.886	34.887	32.534	30.581	29.870	28.694	28.305
88.0	33.300	31.691	30.747	29.915	27.328	25.397	24.520	22.888	22.555
88.5	28.583	27.029	25.819	25.142	22.600	20.502	19.658	17.816	16.939
89.0	23.932	22.700	21.512	20.679	18.371	16.250	15.385	13.376	12.243
89.5	20.069	18.437	17.938	16.595	14.552	12.665	11.688	9.368	7.959
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	735.66	N.A.	14.60
0-30	1547.45	N.A.	30.80
0-40	2493.27	N.A.	49.60
0-60	4168.97	N.A.	82.90
0-80	4950.47	N.A.	98.40
0-90	5028.54	N.A.	100.00
10-90	4837.34	N.A.	96.20
20-40	1757.62	N.A.	35.00
20-50	2678.61	N.A.	53.30
40-70	2188.21	N.A.	43.50
60-80	781.49	N.A.	15.50
70-80	268.97	N.A.	5.30
80-90	78.08	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5028.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.22
10-20	544.44
20-30	811.79
30-40	945.83
40-50	921.00
50-60	754.70
60-70	512.51
70-80	268.97
80-90	78.08
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

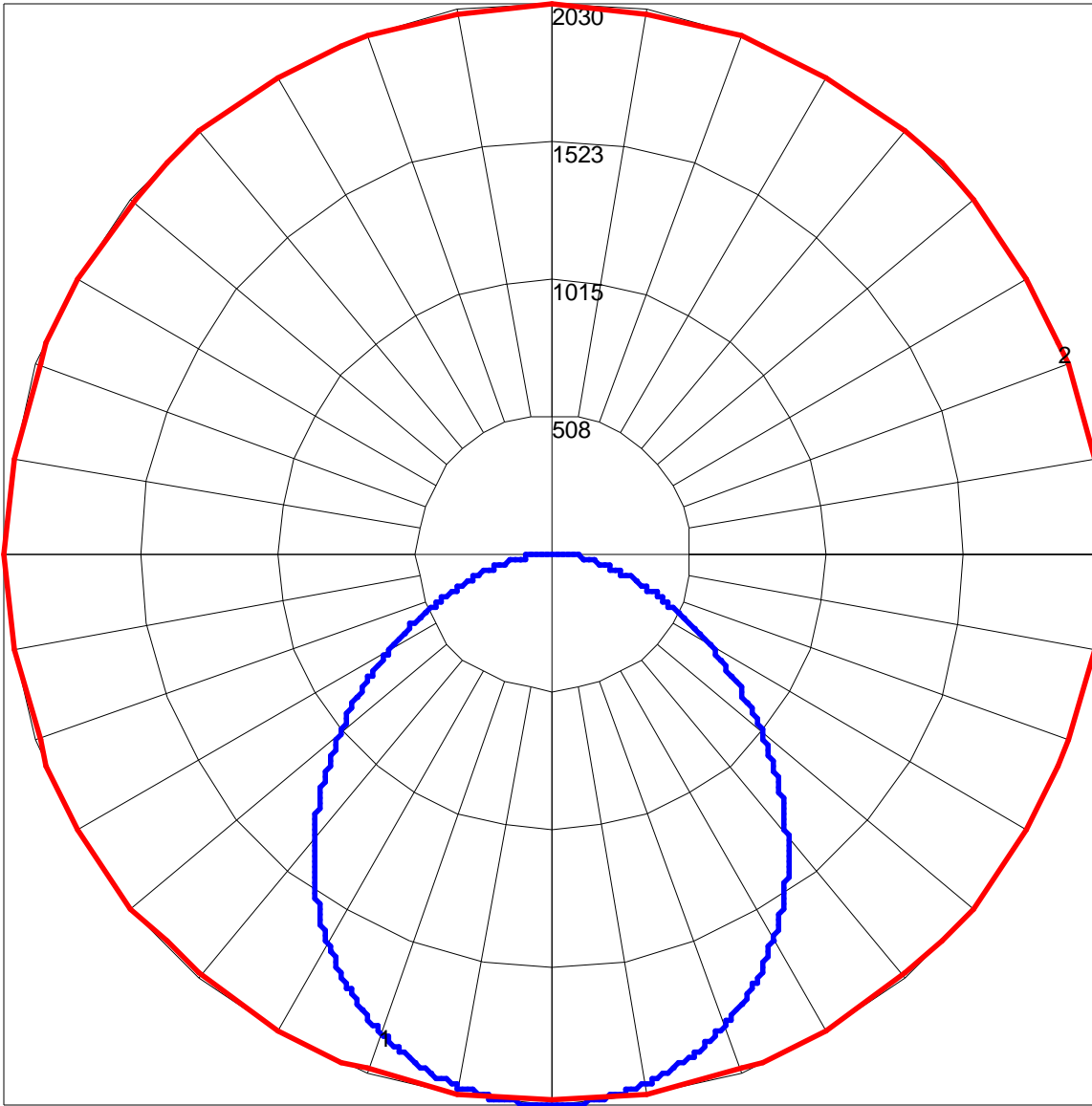
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

POLAR GRAPH



Maximum Candela = 2030.456 Located At Horizontal Angle = 180, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)