



IES INDOOR REPORT
PHOTOMETRIC FILENAME : TRSDI48H40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 8,388P19
[TESTLAB] CSA Group
[ISSUEDATE] 11/26/2019 11:51:30 AM
[LUMINAIRE] TRSDI48H-40/TRWDI48H-40
[_AMBIENT] 24.8 deg C
[_POWERFACTOR] 0.9982
[_ATHD] 5.33%
[_CURRENT] 0.8187
[_VOLTAGE] 120.06
[_STABILIZATION] 49:34.5 Stable
[_POWER VARIATION] 0.26 %
[_LIGHT VARIATION] 0.45 %
[_Lumens] 10,735
[_CONVERT]
[MANUFAC] LAMAR LIGHTING CO., INC.
[_SEARCH _SOURCETYPE] LED
[_SEARCH _APPLICATION] Indoor, Architectural, Direct-Indirect
[_SEARCH _MOUNTING] Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10735
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	98.29
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15223	15412	15605
55	13801	14195	14257
65	12221	12885	12215
75	10042	11251	9603
85	8270	9385	3716

CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2239.742	2239.831	2239.920	2240.054	2240.232	2240.433	2240.678	2240.945	2241.235	2241.547
5.0	2222.585	2222.719	2222.919	2223.187	2223.521	2223.922	2224.367	2224.902	2225.482	2226.128
7.5	2205.405	2205.606	2205.896	2206.274	2206.765	2207.344	2208.035	2208.792	2209.639	2209.773
10.0	2188.226	2188.404	2188.605	2188.783	2189.986	2190.744	2191.613	2191.479	2191.657	2191.947
12.5	2145.021	2145.422	2146.247	2147.450	2149.054	2150.614	2151.795	2153.377	2155.360	2157.722
15.0	2101.816	2102.284	2103.220	2104.602	2106.451	2107.231	2108.635	2110.506	2113.002	2113.893
17.5	2058.612	2059.124	2060.149	2061.731	2062.801	2063.848	2065.452	2067.123	2068.037	2069.508
20.0	2015.407	2015.630	2015.853	2018.816	2019.262	2020.443	2022.359	2022.470	2023.518	2025.278
22.5	1950.388	1951.034	1952.705	1954.688	1956.538	1959.390	1961.685	1964.448	1968.258	1970.041
25.0	1885.391	1885.971	1887.664	1889.313	1891.385	1894.015	1896.042	1899.139	1900.788	1902.950
27.5	1820.373	1820.863	1822.556	1823.960	1826.233	1828.216	1830.511	1832.472	1833.630	1835.569
30.0	1755.354	1755.131	1754.908	1758.629	1761.125	1762.551	1765.135	1765.358	1766.628	1766.740
32.5	1679.595	1680.063	1681.823	1683.762	1686.502	1688.842	1691.248	1692.741	1694.502	1696.195
35.0	1603.836	1604.282	1605.908	1608.025	1610.209	1612.504	1613.551	1615.200	1615.980	1617.785
37.5	1528.055	1528.478	1530.016	1532.311	1533.848	1536.299	1536.010	1536.968	1538.082	1538.505
40.0	1452.296	1451.851	1454.146	1456.597	1457.421	1458.401	1458.602	1459.137	1460.184	1459.337
42.5	1366.399	1366.889	1368.739	1371.992	1373.373	1374.733	1376.582	1377.874	1378.966	1379.523
45.0	1280.502	1281.014	1282.908	1285.805	1287.944	1288.947	1290.284	1292.423	1292.712	1293.426
47.5	1194.583	1195.117	1197.123	1199.975	1202.693	1203.362	1204.765	1206.704	1207.283	1208.175
50.0	1108.685	1108.307	1111.337	1114.278	1117.286	1117.999	1119.537	1121.163	1122.478	1123.793
52.5	1025.173	1025.752	1027.913	1030.632	1033.038	1033.907	1035.400	1036.692	1038.141	1039.990
55.0	941.637	942.306	944.601	947.186	949.191	950.283	951.954	953.023	954.539	956.433
57.5	858.102	858.860	861.288	863.739	865.477	866.748	868.552	869.644	871.404	873.521
60.0	774.589	774.634	774.834	780.271	781.898	783.368	785.062	786.911	788.671	791.212
62.5	694.485	694.953	697.360	699.254	700.657	702.039	703.532	704.958	707.097	709.905
65.0	614.404	614.471	616.855	618.459	619.885	621.467	623.138	624.854	627.082	630.180
67.5	534.300	533.988	536.305	537.620	539.202	540.962	542.968	544.884	547.402	550.588
70.0	454.196	452.948	453.506	456.781	458.586	460.547	462.998	465.003	468.033	471.242
72.5	381.691	381.223	383.206	384.298	385.991	387.595	389.645	391.116	393.723	395.907
75.0	309.185	309.007	310.878	312.416	314.444	316.226	318.521	320.460	323.423	325.718
77.5	236.679	236.791	238.529	240.579	242.918	244.924	247.442	249.959	253.146	255.753
80.0	164.174	164.307	165.087	166.335	171.415	173.644	176.407	179.593	182.913	185.966
82.5	124.957	125.425	126.606	128.322	129.614	130.662	132.533	135.163	137.190	138.750
85.0	85.741	86.387	87.546	88.950	89.663	90.576	92.871	96.548	99.155	101.160
87.5	46.503	47.372	48.486	49.555	49.689	50.491	53.187	57.955	61.120	63.593
90.0	7.286	8.333	9.403	10.161	9.715	10.383	13.503	19.318	23.062	26.003
92.5	50.402	50.870	51.538	51.627	50.803	50.402	52.028	56.062	58.245	59.448
95.0	93.540	93.428	93.674	93.116	91.891	90.443	90.554	92.805	93.451	92.961
97.5	136.656	135.965	135.809	134.606	133.001	130.528	129.191	129.637	128.745	126.606
100.0	179.771	178.613	178.345	177.008	175.716	173.198	171.594	171.772	171.193	169.588
102.5	247.932	246.238	245.860	244.478	242.852	239.999	237.816	237.303	236.189	234.028
105.0	316.092	313.864	313.374	311.970	310.032	306.912	304.194	302.968	301.386	298.757
107.5	384.231	381.490	380.911	379.462	377.301	373.937	370.706	368.834	366.806	363.776
110.0	452.391	449.205	448.648	447.445	445.395	442.275	439.178	437.284	435.658	433.184
112.5	526.323	523.805	523.226	521.889	519.594	516.363	513.088	510.614	508.676	506.136
115.0	600.255	598.383	597.804	596.400	593.927	590.584	587.153	584.279	581.939	579.689
117.5	674.186	672.939	672.404	670.956	668.371	664.962	661.441	658.344	655.492	653.553
120.0	748.118	747.517	747.138	745.868	743.439	740.230	736.843	734.370	730.738	727.997
122.5	826.684	825.749	825.258	823.855	821.337	818.061	814.452	810.530	807.255	803.645
125.0	905.251	904.025	903.401	901.975	899.413	896.137	892.283	887.826	884.217	880.495
127.5	983.817	982.324	981.567	980.207	977.667	974.370	970.314	965.746	961.647	958.638
130.0	1062.383	1060.623	1059.776	1058.551	1056.100	1052.446	1048.390	1043.979	1039.433	1035.890
132.5	1140.772	1139.212	1138.231	1137.050	1134.399	1130.433	1126.444	1122.433	1117.777	1113.654

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CANDELA TABULATION - (Cont.)

135.0	1219.137	1217.778	1216.775	1215.706	1212.676	1208.821	1204.944	1201.000	1196.566	1192.555
137.5	1297.525	1296.344	1295.386	1294.896	1291.197	1287.610	1284.580	1279.678	1275.845	1272.614
140.0	1375.891	1374.866	1373.930	1372.749	1369.296	1365.775	1361.408	1356.706	1352.361	1347.437
142.5	1450.135	1449.177	1448.575	1447.416	1444.520	1442.269	1437.011	1432.755	1427.964	1423.040
145.0	1524.378	1523.487	1523.264	1522.083	1520.033	1517.070	1513.104	1509.695	1504.503	1500.113
147.5	1598.622	1597.798	1597.998	1596.817	1595.837	1592.673	1589.709	1586.144	1582.267	1577.677
150.0	1672.866	1671.974	1672.242	1670.437	1669.746	1665.379	1662.059	1656.867	1652.634	1646.462
152.5	1733.696	1732.827	1733.049	1731.646	1730.777	1728.014	1724.760	1721.262	1717.073	1713.441
155.0	1794.525	1793.701	1793.879	1793.033	1791.985	1790.938	1787.774	1785.635	1782.114	1779.039
157.5	1855.355	1854.553	1854.709	1854.575	1853.417	1853.172	1851.122	1849.005	1848.047	1844.794
160.0	1916.185	1915.294	1914.937	1915.227	1912.687	1910.993	1910.280	1905.713	1902.415	1899.919
162.5	1955.825	1954.956	1954.599	1954.711	1953.619	1952.126	1951.168	1949.942	1946.957	1944.506
165.0	1995.464	1994.662	1994.284	1994.328	1994.930	1993.281	1992.479	1992.100	1992.590	1989.671
167.5	2035.104	2034.369	2034.012	2034.012	2034.369	2034.480	2033.790	2033.500	2033.567	2034.035
170.0	2074.744	2074.009	2073.385	2072.872	2072.449	2072.137	2072.048	2070.176	2068.795	2067.524
172.5	2088.135	2087.578	2087.110	2086.732	2086.420	2086.174	2086.019	2085.952	2086.063	2084.771
175.0	2101.527	2101.148	2100.836	2100.591	2100.368	2100.234	2100.123	2100.078	2100.078	2100.145
177.5	2114.896	2114.718	2114.562	2114.428	2114.339	2114.250	2114.205	2114.183	2114.183	2114.228
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

**Vert.
Angles**

Horizontal Angles

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2241.903	2242.282	2242.706	2243.151	2243.597	2244.087	2244.622	2245.157	2245.714	2246.293
5.0	2226.818	2227.576	2228.400	2228.846	2229.336	2229.916	2230.540	2231.230	2231.988	2232.790
7.5	2210.107	2210.553	2211.087	2211.734	2212.469	2213.316	2214.251	2215.388	2215.477	2215.989
10.0	2192.393	2192.972	2193.685	2193.507	2193.440	2193.529	2193.752	2194.108	2194.621	2195.267
12.5	2159.817	2161.666	2163.916	2166.568	2169.598	2172.941	2171.225	2170.200	2169.420	2168.908
15.0	2115.631	2117.837	2120.533	2121.937	2123.631	2125.792	2128.443	2132.165	2134.059	2137.223
17.5	2071.535	2072.471	2073.340	2074.744	2076.727	2077.997	2079.735	2082.119	2085.127	2087.445
20.0	2024.899	2025.300	2026.325	2026.526	2027.038	2028.264	2029.400	2029.378	2030.091	2031.606
22.5	1973.026	1976.547	1977.037	1976.792	1976.636	1974.854	1973.940	1973.829	1973.383	1973.717
25.0	1905.490	1907.428	1910.503	1912.553	1914.603	1917.611	1917.745	1916.252	1915.628	1914.425
27.5	1836.482	1838.621	1839.580	1841.072	1842.833	1844.504	1847.445	1850.164	1853.550	1853.417
30.0	1767.765	1768.255	1769.191	1769.703	1770.193	1771.620	1772.934	1775.407	1777.413	1780.109
32.5	1698.379	1698.802	1698.557	1697.710	1697.710	1698.067	1699.092	1699.225	1700.651	1701.275
35.0	1618.943	1620.859	1621.684	1623.556	1625.494	1625.004	1623.823	1623.288	1622.107	1622.531
37.5	1539.575	1539.552	1540.577	1541.959	1543.897	1545.279	1547.017	1546.527	1544.544	1542.939
40.0	1459.137	1459.360	1459.694	1460.897	1461.187	1461.788	1462.145	1462.992	1464.351	1464.885
42.5	1379.523	1379.389	1379.679	1379.367	1379.412	1378.431	1378.209	1378.520	1379.434	1381.595
45.0	1294.829	1295.899	1297.369	1298.951	1297.459	1296.367	1295.877	1295.631	1296.322	1296.411
47.5	1209.534	1211.094	1212.141	1212.720	1213.166	1213.968	1215.015	1214.458	1214.035	1214.102
50.0	1125.107	1126.622	1128.539	1127.759	1128.516	1129.853	1130.344	1131.881	1134.377	1134.354
52.5	1041.617	1043.288	1044.157	1044.402	1046.140	1046.318	1046.920	1048.569	1050.596	1052.758
55.0	958.505	960.510	960.956	962.716	964.588	964.254	965.167	966.682	968.509	969.846
57.5	875.705	877.554	878.200	880.585	881.632	882.724	884.840	886.690	887.849	888.227
60.0	793.507	795.089	796.492	798.854	799.746	801.506	803.689	806.140	808.413	808.703
62.5	711.977	713.559	715.475	717.503	719.241	721.580	723.942	726.460	727.351	728.800
65.0	632.408	633.834	635.928	637.800	640.028	642.613	645.376	648.027	647.738	650.144
67.5	552.683	554.866	557.607	559.657	562.219	564.982	568.080	569.617	570.308	572.781
70.0	473.582	476.411	479.442	482.138	485.124	488.399	491.630	492.588	494.594	496.599
72.5	397.578	399.806	401.834	405.176	408.674	412.418	415.604	417.253	420.105	422.088
75.0	327.991	330.799	333.183	335.478	337.996	340.268	341.761	343.321	346.396	349.248
77.5	258.627	262.103	264.688	267.718	270.526	272.665	272.954	273.356	274.871	277.678
80.0	189.464	193.631	196.438	200.337	203.323	205.351	204.014	203.502	203.947	206.510

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82.5	140.443	142.493	142.894	144.744	144.922	143.986	137.680	133.714	133.180	135.564
85.0	103.143	105.104	105.706	107.667	108.090	107.889	103.700	100.670	97.305	95.590
87.5	65.866	67.693	68.584	70.589	71.392	71.993	70.411	69.587	68.517	68.072
90.0	28.543	30.259	31.484	33.490	34.715	36.164	37.434	38.771	40.041	40.776
92.5	60.562	60.919	61.142	61.855	61.855	61.944	61.186	59.649	58.267	56.396
95.0	92.626	91.646	90.844	90.264	89.106	87.836	85.162	80.861	76.851	72.416
97.5	124.846	122.551	120.702	118.897	116.579	114.017	109.605	104.146	102.297	100.937
100.0	168.630	167.694	167.605	167.694	167.472	167.026	165.422	163.216	161.478	159.940
102.5	232.112	230.552	229.817	229.193	228.123	226.652	224.424	222.441	221.171	219.634
105.0	295.972	293.744	292.384	291.181	289.399	287.037	284.162	282.313	282.068	281.177
107.5	360.278	357.292	355.376	354.774	353.415	351.387	348.892	346.530	345.861	344.859
110.0	429.953	427.101	425.297	424.026	421.887	419.214	415.849	412.975	410.969	409.543
112.5	502.281	498.671	496.064	494.081	491.207	487.954	484.143	480.667	478.038	475.988
115.0	575.410	570.999	567.523	564.849	561.685	558.097	554.309	550.120	547.268	544.906
117.5	648.740	644.083	640.006	636.775	633.967	630.447	626.347	621.668	618.125	615.696
120.0	723.452	718.238	713.425	709.726	707.208	703.777	699.766	695.265	690.853	687.400
122.5	798.988	793.551	787.892	783.725	780.873	778.221	775.035	769.264	762.847	757.633
125.0	875.415	869.822	863.739	858.882	855.139	851.908	847.362	841.747	835.575	830.428
127.5	952.489	946.361	940.167	934.240	929.293	925.059	920.870	916.771	910.487	905.273
130.0	1030.008	1023.568	1017.530	1011.179	1005.787	1000.796	996.317	992.195	988.318	980.542
132.5	1108.819	1102.380	1095.405	1089.345	1084.844	1079.073	1074.015	1067.843	1062.339	1056.724
135.0	1188.700	1182.038	1175.442	1168.847	1162.385	1155.923	1149.551	1143.735	1138.588	1133.864
137.5	1267.489	1261.161	1253.585	1245.430	1238.099	1231.727	1226.045	1221.611	1217.132	1213.299
140.0	1342.513	1337.700	1330.525	1323.618	1316.198	1309.803	1304.032	1299.709	1297.258	1292.467
142.5	1418.628	1413.681	1409.225	1402.451	1396.302	1390.152	1384.826	1377.919	1370.521	1364.349
145.0	1495.167	1491.000	1487.012	1482.867	1476.628	1468.517	1460.162	1452.452	1445.032	1439.061
147.5	1573.354	1566.759	1560.854	1555.506	1549.735	1542.516	1536.032	1528.857	1522.685	1516.936
150.0	1641.002	1635.254	1630.173	1625.606	1621.595	1617.896	1612.103	1607.423	1602.254	1597.530
152.5	1708.272	1704.239	1699.760	1696.084	1693.098	1690.424	1688.886	1685.544	1682.358	1675.450
155.0	1776.165	1772.377	1769.659	1766.807	1764.467	1763.219	1759.298	1753.660	1748.736	1741.583
157.5	1842.766	1841.162	1836.549	1831.313	1826.500	1821.175	1816.651	1812.975	1808.585	1804.864
160.0	1895.084	1891.140	1887.842	1883.609	1879.687	1876.479	1873.582	1870.329	1867.855	1866.162
162.5	1942.612	1939.715	1936.774	1934.434	1932.674	1930.067	1927.950	1926.524	1925.744	1924.897
165.0	1987.955	1986.752	1985.995	1984.167	1982.630	1981.627	1981.159	1982.140	1980.424	1980.402
167.5	2033.723	2032.653	2031.985	2031.740	2031.918	2032.943	2028.108	2024.498	2021.178	2018.125
170.0	2066.366	2065.341	2064.450	2061.999	2059.614	2057.431	2055.448	2053.643	2052.016	2050.612
172.5	2083.857	2083.055	2082.364	2081.740	2081.228	2080.805	2080.493	2080.604	2078.799	2077.730
175.0	2100.257	2100.435	2100.658	2100.234	2099.878	2099.588	2099.365	2099.232	2099.143	2099.120
177.5	2114.294	2114.361	2114.473	2114.629	2114.785	2114.963	2115.186	2115.431	2115.698	2115.988
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2246.895	2247.518	2248.165	2248.811	2249.502	2250.170	2250.883	2251.596	2252.309	2253.044
5.0	2233.659	2234.595	2235.575	2236.600	2237.692	2238.828	2240.009	2241.235	2242.483	2243.797
7.5	2216.591	2217.326	2218.151	2219.087	2220.134	2221.293	2222.540	2223.900	2225.370	2226.930
10.0	2195.579	2195.601	2195.824	2196.248	2196.871	2197.718	2198.765	2200.013	2201.462	2203.110
12.5	2168.662	2168.662	2168.440	2168.239	2168.328	2168.685	2169.331	2170.267	2171.492	2173.007
15.0	2138.604	2137.624	2137.000	2136.220	2134.816	2133.880	2133.390	2133.390	2133.858	2134.816
17.5	2089.517	2092.280	2095.756	2096.045	2095.778	2092.191	2090.809	2089.985	2089.784	2090.185
20.0	2033.522	2035.483	2038.246	2041.811	2046.178	2046.490	2043.839	2041.900	2040.675	2040.207
22.5	1974.943	1976.614	1978.196	1980.758	1984.279	1988.758	1992.323	1989.203	1986.663	1985.126
25.0	1913.979	1914.514	1915.450	1916.453	1918.525	1921.733	1926.502	1929.777	1926.591	1923.828
27.5	1851.099	1849.629	1849.295	1848.760	1848.559	1849.584	1851.857	1855.266	1859.901	1857.182

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CANDELA TABULATION - (Cont.)

30.0	1784.521	1782.404	1779.307	1777.368	1776.210	1776.343	1777.836	1781.045	1783.897	1787.618
32.5	1702.768	1705.353	1708.896	1706.289	1703.882	1701.587	1700.919	1701.966	1704.707	1709.118
35.0	1622.397	1624.157	1626.319	1628.836	1628.190	1625.360	1624.135	1624.447	1626.252	1629.304
37.5	1542.516	1542.293	1543.118	1545.034	1548.822	1551.095	1547.485	1545.791	1546.103	1547.730
40.0	1463.370	1461.900	1461.432	1462.479	1464.373	1467.827	1469.498	1465.732	1463.972	1464.128
42.5	1382.910	1381.996	1380.437	1380.147	1380.370	1381.818	1384.737	1385.339	1381.751	1380.637
45.0	1297.347	1299.130	1301.091	1298.729	1297.459	1296.857	1297.971	1302.316	1303.252	1301.157
47.5	1214.614	1215.193	1216.241	1217.622	1215.661	1215.037	1216.575	1219.249	1222.435	1219.784
50.0	1133.664	1133.151	1132.148	1132.661	1135.914	1137.140	1136.449	1137.808	1138.788	1143.156
52.5	1053.872	1052.067	1050.752	1051.577	1053.894	1058.328	1058.350	1056.523	1057.504	1060.579
55.0	970.225	971.361	972.520	971.985	973.099	974.436	977.155	978.091	976.999	977.846
57.5	888.294	889.943	891.481	893.553	893.508	893.998	895.981	898.744	898.299	897.341
60.0	809.661	810.731	811.711	813.360	815.610	816.747	816.078	816.925	819.710	818.886
62.5	731.919	734.103	734.749	734.704	735.417	737.623	738.314	737.980	739.049	742.481
65.0	652.462	655.291	657.898	656.673	657.675	658.233	659.324	662.422	661.642	662.689
67.5	575.232	577.661	578.129	579.867	582.273	582.184	583.209	584.858	586.529	586.195
70.0	498.872	501.189	502.013	505.200	505.489	507.383	509.211	509.188	511.305	513.154
72.5	425.319	426.633	428.995	431.491	431.937	433.273	433.251	437.240	436.036	435.569
75.0	353.014	354.039	355.532	355.153	357.693	359.119	357.180	357.270	357.492	357.626
77.5	280.887	281.778	281.132	278.837	279.684	280.040	280.308	276.520	278.703	278.926
80.0	208.649	210.164	209.273	206.532	204.148	204.326	206.264	206.777	208.114	207.089
82.5	137.079	139.998	140.555	140.733	140.533	141.357	142.271	143.340	145.167	147.128
85.0	92.403	90.933	87.279	83.959	79.614	83.045	86.231	90.153	93.139	96.882
87.5	67.047	66.735	65.175	63.704	61.677	61.053	59.872	59.627	58.735	62.055
90.0	42.068	42.759	43.606	43.896	44.408	45.032	45.968	46.948	47.817	50.290
92.5	54.925	53.165	51.561	50.045	48.374	45.812	43.383	41.088	39.640	41.534
95.0	68.205	64.016	59.983	56.596	52.897	53.053	53.700	54.791	56.151	58.490
97.5	100.202	100.135	100.113	100.113	99.110	97.239	94.743	92.649	92.359	93.495
100.0	158.425	157.266	155.640	152.855	148.732	146.192	145.858	144.543	142.805	141.803
102.5	217.740	215.667	213.885	211.345	209.874	209.094	207.557	204.482	202.009	201.407
105.0	279.595	277.790	275.361	273.356	272.954	273.489	270.437	267.874	267.206	265.780
107.5	343.076	341.026	338.575	336.347	334.787	333.450	332.113	331.890	330.108	327.724
110.0	408.050	405.867	402.992	399.271	397.689	396.374	394.971	393.879	393.745	392.676
112.5	475.520	472.401	469.192	465.649	463.154	461.705	459.187	459.009	459.767	457.249
115.0	543.280	541.274	538.534	533.921	529.576	527.148	526.100	525.922	523.939	524.429
117.5	614.070	611.819	607.474	603.018	598.940	596.757	594.506	591.565	590.295	592.300
120.0	683.523	680.203	677.551	674.342	671.446	666.521	661.798	659.191	659.213	656.116
122.5	753.421	750.502	748.608	747.628	741.567	735.974	731.919	730.359	726.438	722.962
125.0	826.217	823.053	819.911	815.387	811.533	807.433	804.826	800.971	796.047	793.484
127.5	901.708	895.090	889.653	885.487	882.568	880.963	877.198	872.519	869.555	868.263
130.0	973.902	967.930	962.939	959.196	956.856	952.533	948.277	947.297	944.957	945.002
132.5	1050.106	1044.491	1039.433	1036.180	1030.008	1024.326	1020.560	1019.179	1020.337	1015.079
135.0	1129.497	1124.639	1120.072	1110.267	1102.491	1097.923	1095.361	1094.826	1090.994	1084.844
137.5	1209.823	1203.384	1194.293	1186.338	1179.453	1174.195	1171.320	1168.602	1161.627	1156.124
140.0	1284.468	1276.981	1270.119	1264.058	1258.643	1254.766	1250.466	1242.489	1236.183	1232.195
142.5	1358.266	1352.228	1347.482	1342.869	1339.438	1335.048	1327.071	1320.766	1316.265	1313.502
145.0	1433.468	1428.922	1425.090	1422.505	1417.447	1409.648	1403.610	1399.688	1397.616	1396.324
147.5	1512.212	1508.536	1506.820	1496.704	1489.017	1482.978	1478.433	1475.447	1474.110	1474.734
150.0	1594.411	1586.367	1577.209	1569.054	1562.258	1557.022	1553.390	1551.718	1550.805	1550.872
152.5	1666.047	1657.513	1650.160	1643.476	1637.593	1632.825	1629.282	1627.410	1628.569	1621.706
155.0	1734.787	1728.905	1723.401	1718.120	1714.043	1711.191	1710.166	1708.249	1700.919	1694.256
157.5	1801.901	1798.893	1794.748	1791.517	1789.267	1787.997	1786.660	1778.861	1772.221	1766.762
160.0	1864.736	1862.953	1861.928	1861.683	1862.196	1858.274	1850.988	1844.749	1839.580	1835.457
162.5	1924.184	1924.207	1924.942	1922.380	1919.438	1911.952	1907.228	1903.217	1899.919	1897.335
165.0	1978.597	1974.386	1970.509	1966.743	1962.799	1959.368	1956.449	1954.020	1952.148	1950.789
167.5	2015.385	2012.934	2010.126	2007.341	2004.867	2002.751	2000.968	1999.542	1998.495	1997.804

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CANDELA TABULATION - (Cont.)

170.0	2048.897	2046.958	2045.287	2043.839	2042.658	2041.744	2041.098	2040.697	2040.586	2040.719
172.5	2076.838	2076.081	2075.501	2075.056	2074.788	2074.655	2074.699	2074.900	2075.256	2075.791
175.0	2099.187	2099.321	2099.521	2099.789	2100.123	2100.524	2100.992	2101.549	2102.151	2102.819
177.5	2116.300	2116.634	2116.990	2117.369	2117.770	2118.194	2118.617	2119.085	2119.553	2120.043
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

Vert. Horizontal Angles
Angles

	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2253.780	2254.537	2255.295	2256.030	2256.788	2257.545	2258.303	2257.880	2257.434	2257.011
5.0	2245.134	2246.516	2247.920	2249.368	2250.838	2252.309	2253.824	2252.955	2252.109	2251.262
7.5	2228.579	2230.339	2232.188	2234.105	2236.132	2238.227	2240.410	2239.118	2237.915	2236.801
10.0	2204.938	2206.965	2209.193	2211.578	2214.162	2216.903	2219.800	2218.195	2216.747	2215.477
12.5	2174.812	2176.907	2179.291	2181.943	2184.884	2188.115	2191.613	2189.518	2187.691	2186.176
15.0	2136.242	2138.114	2140.476	2143.306	2146.581	2150.302	2154.469	2152.218	2150.413	2149.032
17.5	2091.188	2092.792	2095.043	2097.873	2101.349	2105.426	2110.128	2107.521	2105.538	2104.156
20.0	2040.474	2041.521	2043.326	2045.955	2049.365	2053.598	2058.634	2055.916	2054.022	2052.930
22.5	1984.591	1985.059	1986.574	1989.114	1992.679	1997.269	2002.862	1999.809	1997.782	1996.757
25.0	1922.535	1922.669	1924.207	1927.148	1931.426	1936.997	1943.837	1940.250	1937.866	1936.729
27.5	1854.976	1854.130	1854.665	1856.648	1860.146	1865.182	1871.822	1867.989	1865.806	1865.248
30.0	1783.808	1781.691	1781.334	1782.761	1785.991	1791.049	1797.957	1794.080	1792.052	1791.852
32.5	1710.567	1707.492	1706.266	1706.957	1709.631	1714.355	1721.173	1716.828	1714.644	1714.622
35.0	1634.429	1631.755	1629.126	1628.614	1630.307	1634.296	1640.668	1637.103	1635.878	1636.925
37.5	1551.362	1553.434	1549.557	1548.265	1549.646	1553.702	1560.453	1556.821	1555.841	1557.512
40.0	1466.490	1471.392	1468.361	1466.312	1467.158	1470.924	1477.698	1474.311	1473.910	1476.428
42.5	1382.398	1386.408	1387.545	1384.648	1384.804	1388.124	1394.697	1389.951	1388.703	1391.021
45.0	1300.623	1303.207	1308.288	1304.411	1303.742	1306.416	1312.588	1306.371	1303.898	1305.324
47.5	1218.669	1220.140	1224.062	1221.900	1219.873	1221.677	1227.449	1216.842	1210.893	1210.225
50.0	1139.702	1138.655	1141.239	1142.198	1138.788	1139.167	1143.646	1128.984	1119.247	1114.924
52.5	1061.425	1058.462	1060.022	1063.921	1058.395	1056.991	1060.066	1044.937	1034.486	1028.649
55.0	981.522	979.004	978.960	982.725	976.642	972.230	972.721	961.000	953.915	947.275
57.5	899.725	901.507	899.012	900.171	893.642	882.545	876.685	863.829	857.768	845.023
60.0	819.777	824.100	819.688	818.128	814.162	800.436	792.548	771.291	758.190	730.159
62.5	740.587	740.966	742.436	740.542	740.765	720.845	706.473	670.354	645.153	609.056
65.0	664.561	664.204	668.549	663.558	661.887	636.619	614.092	574.207	541.831	503.640
67.5	588.044	589.715	590.228	586.596	576.458	546.488	511.951	479.420	450.965	418.790
70.0	512.843	515.561	514.001	514.514	493.212	463.688	429.953	399.093	371.686	345.549
72.5	439.267	438.621	442.855	438.978	417.832	384.498	360.233	317.251	298.423	287.037
75.0	357.671	359.676	361.258	361.637	350.563	308.093	295.660	249.803	237.103	228.925
77.5	277.678	277.879	279.728	283.561	274.871	244.745	231.421	190.355	176.429	170.056
80.0	208.470	209.183	209.206	209.206	203.813	182.512	177.253	131.865	123.487	121.615
82.5	148.532	150.002	150.715	151.874	151.027	119.565	99.667	84.805	85.630	93.295
85.0	97.083	97.796	100.603	102.141	102.386	86.878	38.526	52.006	66.957	74.823
87.5	67.292	69.720	69.386	71.659	71.659	70.701	28.632	56.775	64.640	66.066
90.0	52.340	54.502	56.552	57.242	59.426	60.451	44.698	60.095	58.223	55.549
92.5	47.104	52.251	48.508	48.062	47.594	42.469	12.433	34.738	35.941	35.495
95.0	57.777	56.396	58.446	58.490	57.421	56.418	19.363	25.112	31.596	34.559
97.5	93.428	93.674	93.584	93.562	92.916	92.827	92.314	46.859	46.748	51.182
100.0	142.248	142.649	142.092	141.112	142.404	148.108	152.052	86.655	78.811	76.071
102.5	200.605	200.583	200.716	202.142	205.953	207.802	206.777	147.752	125.136	118.117
105.0	264.109	264.777	263.841	264.532	266.136	265.134	264.354	227.098	188.506	170.012
107.5	328.258	325.607	325.897	325.072	323.557	322.064	322.755	308.628	269.100	233.270
110.0	389.222	388.910	386.325	387.685	383.807	381.958	382.069	380.599	354.484	310.745
112.5	456.135	453.595	451.300	450.141	448.247	445.239	445.997	445.841	435.323	400.920
115.0	523.828	519.906	519.950	516.296	517.343	514.023	515.561	512.508	511.506	487.619

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CANDELA TABULATION - (Cont.)

117.5	588.356	586.507	585.905	584.546	585.994	582.451	584.680	580.691	582.140	569.684
120.0	654.378	655.514	652.640	653.219	654.355	651.927	654.445	649.119	648.740	644.886
122.5	722.226	721.692	719.419	720.956	719.397	716.856	718.773	714.183	714.116	713.871
125.0	793.239	788.694	787.112	789.273	785.574	783.903	786.421	781.786	781.430	783.435
127.5	865.165	859.640	858.169	859.105	854.270	853.467	856.765	851.885	851.083	854.225
130.0	937.515	932.970	932.078	930.675	926.575	926.062	929.293	924.413	923.455	926.441
132.5	1009.441	1006.322	1006.166	1002.356	999.192	999.415	1003.069	998.924	998.323	1001.353
135.0	1081.145	1079.741	1080.231	1074.438	1071.764	1072.254	1075.909	1072.522	1072.321	1075.307
137.5	1153.450	1153.316	1151.445	1146.498	1144.069	1144.359	1147.545	1144.738	1144.827	1147.612
140.0	1230.390	1230.434	1224.641	1220.162	1218.536	1219.784	1223.950	1220.095	1219.048	1220.742
142.5	1312.722	1310.761	1304.009	1299.910	1298.461	1299.731	1303.742	1299.308	1297.548	1298.372
145.0	1397.015	1390.865	1385.116	1381.662	1380.570	1381.907	1385.762	1380.860	1378.454	1378.498
147.5	1473.264	1468.072	1464.618	1462.992	1463.281	1465.554	1469.899	1464.529	1461.276	1460.117
150.0	1544.900	1540.622	1538.104	1537.369	1538.438	1541.357	1546.126	1540.979	1537.681	1536.255
152.5	1616.737	1613.328	1611.479	1611.234	1612.571	1615.556	1620.169	1615.311	1612.103	1610.521
155.0	1689.221	1685.812	1684.007	1683.806	1685.165	1688.040	1692.407	1687.817	1684.697	1683.049
157.5	1762.506	1759.476	1757.693	1757.181	1757.961	1760.055	1763.442	1759.543	1756.936	1755.621
160.0	1832.427	1830.466	1829.553	1829.731	1830.956	1833.229	1836.527	1832.561	1829.642	1827.726
162.5	1895.485	1894.416	1894.081	1894.505	1895.708	1897.691	1900.432	1896.978	1894.304	1892.410
165.0	1949.965	1949.675	1949.965	1950.789	1952.171	1954.109	1956.605	1953.485	1950.945	1948.962
167.5	1997.514	1997.626	1998.138	1999.052	2000.389	2002.149	2004.333	2001.748	1999.609	1997.893
170.0	2041.143	2041.833	2042.814	2044.039	2045.554	2047.315	2049.365	2047.070	2045.064	2043.304
172.5	2076.460	2077.306	2078.287	2079.445	2080.760	2082.208	2083.813	2082.030	2080.381	2078.888
175.0	2103.554	2104.379	2105.226	2106.161	2107.142	2108.189	2109.303	2108.100	2106.941	2105.849
177.5	2120.556	2121.068	2121.603	2122.160	2122.717	2123.296	2123.876	2123.252	2122.650	2122.049
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

**Vert.
Angles**

Horizontal Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2256.565	2256.142	2255.696	2255.273	2254.849	2254.426	2254.003	2253.579	2253.156	2252.755
5.0	2250.460	2249.680	2248.922	2248.187	2247.474	2246.805	2246.182	2245.580	2245.001	2244.466
7.5	2235.754	2234.795	2233.926	2233.147	2232.456	2231.876	2231.364	2230.963	2230.651	2230.450
10.0	2214.341	2213.382	2212.580	2211.956	2211.466	2211.154	2210.976	2210.976	2211.132	2211.444
12.5	2184.928	2183.992	2183.369	2183.034	2183.034	2183.346	2183.948	2184.906	2186.154	2187.736
15.0	2148.052	2147.517	2147.361	2147.628	2148.274	2149.299	2150.703	2152.463	2154.603	2157.076
17.5	2103.421	2103.309	2103.800	2104.936	2106.718	2109.080	2112.088	2115.676	2121.581	2123.319
20.0	2052.640	2053.130	2054.378	2056.406	2059.169	2062.645	2066.834	2071.713	2073.607	2071.312
22.5	1996.757	1997.804	1999.854	2002.907	2006.962	2012.020	2018.058	2016.031	2013.513	2012.042
25.0	1936.841	1938.222	1940.874	1944.795	1949.965	1955.223	1953.218	1950.499	1949.385	1949.385
27.5	1866.363	1869.103	1873.448	1879.398	1887.285	1884.344	1882.918	1881.871	1882.183	1883.809
30.0	1793.434	1796.798	1801.856	1808.608	1807.471	1807.137	1807.338	1809.053	1811.883	1815.626
32.5	1716.784	1721.128	1727.613	1729.841	1729.128	1729.663	1731.289	1734.631	1739.623	1744.993
35.0	1640.133	1645.370	1650.584	1648.133	1648.133	1650.316	1654.104	1659.363	1665.869	1668.833
37.5	1561.790	1568.630	1568.697	1567.182	1568.140	1570.881	1576.206	1584.050	1584.919	1583.849
40.0	1481.775	1487.457	1482.667	1482.109	1484.583	1488.995	1496.103	1496.036	1494.944	1497.395
42.5	1397.015	1395.566	1390.018	1389.461	1392.358	1399.933	1403.098	1400.491	1400.669	1404.457
45.0	1310.716	1300.110	1291.754	1287.276	1290.774	1297.280	1300.935	1302.673	1304.121	1308.466
47.5	1211.294	1205.189	1199.707	1195.162	1194.649	1197.791	1204.587	1210.715	1214.302	1216.976
50.0	1112.964	1112.273	1114.100	1115.214	1108.663	1112.317	1118.244	1128.249	1129.831	1131.591
52.5	1022.721	1022.320	1029.206	1022.187	1013.675	1016.705	1027.245	1031.367	1023.680	1029.518
55.0	931.098	927.421	931.677	904.694	894.645	898.076	907.256	903.223	897.764	906.499
57.5	823.053	812.469	794.019	770.378	751.572	758.212	771.603	775.636	774.656	772.851
60.0	701.482	684.302	663.135	641.187	626.013	632.564	644.173	656.628	662.600	674.276
62.5	577.327	558.989	548.249	529.888	533.364	536.662	542.010	552.727	566.876	579.065

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CANDELA TABULATION - (Cont.)

65.0	471.398	464.647	458.162	456.558	458.630	459.210	465.449	474.317	482.517	488.533
67.5	400.474	396.909	394.547	396.597	399.917	401.900	407.025	410.702	414.891	423.202
70.0	342.719	341.071	341.784	344.613	345.482	349.738	356.089	358.896	362.372	368.188
72.5	289.666	284.875	285.789	288.039	290.825	297.420	301.008	306.177	312.327	318.566
75.0	225.962	225.427	226.719	230.039	233.359	238.930	244.924	252.700	258.137	263.819
77.5	168.831	170.613	172.574	177.699	181.064	185.230	190.199	198.666	202.321	208.047
80.0	126.718	130.394	133.692	135.497	136.901	140.666	143.273	147.440	151.250	157.333
82.5	100.536	103.767	104.213	104.770	104.079	102.987	103.790	106.619	110.006	114.151
85.0	77.965	77.987	78.655	77.675	74.333	72.483	70.322	70.055	70.612	76.360
87.5	62.813	63.972	61.097	55.393	51.806	51.449	50.335	51.249	52.452	55.616
90.0	52.541	48.731	45.990	42.804	40.152	37.523	35.852	35.428	35.428	35.317
92.5	33.869	34.292	31.796	29.702	29.791	30.816	31.908	33.022	34.493	35.651
95.0	34.515	32.665	32.621	33.668	33.690	34.426	34.894	34.493	33.824	36.342
97.5	56.418	57.421	57.131	54.123	50.692	51.226	55.326	59.092	61.587	63.281
100.0	81.062	84.761	85.986	87.078	85.763	84.828	86.298	88.415	92.158	97.038
102.5	116.290	117.448	117.805	120.167	122.640	123.888	126.874	129.993	134.182	138.015
105.0	162.480	160.341	160.520	160.698	163.594	168.095	171.972	175.114	180.061	185.587
107.5	218.029	213.439	211.389	211.969	214.509	218.007	223.377	228.324	232.424	238.016
110.0	290.646	275.651	272.331	271.417	273.556	277.411	281.689	286.725	292.808	300.963
112.5	377.435	356.690	345.973	343.655	341.004	344.859	348.981	353.014	359.743	370.728
115.0	473.938	450.921	433.853	426.789	423.715	420.796	422.444	429.708	438.131	447.556
117.5	565.673	552.371	530.869	519.327	514.892	511.127	509.099	515.160	525.098	536.083
120.0	642.591	641.967	622.559	614.515	614.448	608.254	605.959	609.970	619.417	628.642
122.5	711.420	712.823	706.339	701.170	704.445	706.183	702.306	703.554	710.952	722.405
125.0	780.449	781.341	784.817	781.608	783.970	789.875	791.835	789.964	793.707	799.255
127.5	852.175	852.665	857.300	859.238	860.197	863.650	867.572	869.132	870.068	873.276
130.0	927.176	927.132	930.184	936.245	936.468	938.518	938.696	942.417	945.648	947.007
132.5	1004.829	1003.537	1005.319	1009.375	1012.650	1010.622	1011.202	1013.853	1018.310	1023.412
135.0	1081.479	1079.140	1078.471	1079.986	1083.908	1086.181	1085.802	1087.584	1091.172	1097.143
137.5	1152.915	1153.695	1151.690	1152.224	1155.589	1160.892	1162.697	1164.368	1167.978	1172.902
140.0	1224.997	1230.078	1227.894	1227.872	1230.301	1235.269	1242.288	1245.230	1247.168	1250.622
142.5	1301.625	1307.263	1307.820	1307.329	1309.067	1312.789	1318.159	1325.021	1328.386	1331.015
145.0	1380.860	1385.517	1390.642	1389.305	1389.817	1391.645	1395.254	1400.736	1407.710	1412.099
147.5	1461.031	1463.994	1468.963	1470.255	1469.320	1470.033	1472.127	1475.848	1481.062	1487.279
150.0	1536.678	1538.906	1542.962	1548.755	1547.886	1547.953	1548.376	1550.627	1554.325	1559.473
152.5	1610.521	1612.147	1615.311	1620.035	1625.539	1624.224	1624.603	1626.720	1630.262	1635.187
155.0	1682.915	1684.296	1687.171	1691.560	1697.465	1703.882	1704.573	1704.573	1706.445	1709.586
157.5	1755.554	1756.713	1759.052	1762.573	1767.230	1772.956	1779.418	1780.287	1780.933	1782.649
160.0	1826.879	1827.057	1828.283	1830.555	1833.875	1838.198	1843.568	1849.918	1853.261	1852.659
162.5	1891.296	1890.917	1891.318	1892.477	1894.371	1897.000	1900.343	1904.398	1911.216	1913.801
165.0	1947.558	1946.734	1946.489	1946.823	1947.736	1949.229	1951.302	1953.953	1957.139	1960.883
167.5	1996.601	1995.732	1995.286	1995.264	1995.643	1996.400	1997.581	1999.119	2001.057	2003.352
170.0	2041.833	2040.630	2039.694	2039.048	2038.669	2038.558	2038.714	2039.137	2039.850	2040.808
172.5	2077.574	2076.393	2075.390	2074.543	2073.853	2073.340	2072.984	2072.805	2072.783	2072.939
175.0	2104.825	2103.844	2102.953	2102.106	2101.349	2100.658	2100.012	2099.477	2098.987	2098.586
177.5	2121.447	2120.868	2120.311	2119.776	2119.241	2118.728	2118.238	2117.770	2117.302	2116.879
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

**Vert.
Angles**

Horizontal Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2252.354	2251.953	2251.574	2251.195	2250.816	2250.460	2250.103	2249.769	2249.435	2249.123
5.0	2243.976	2243.530	2243.107	2242.728	2242.394	2242.104	2241.859	2241.636	2241.480	2241.346
7.5	2230.317	2230.317	2230.384	2230.562	2230.829	2231.498	2231.007	2230.718	2230.473	2230.294
10.0	2211.890	2212.491	2213.249	2213.828	2214.185	2214.675	2215.276	2216.012	2216.881	2217.861

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CANDELA TABULATION - (Cont.)

12.5	2189.608	2191.323	2192.281	2193.440	2194.755	2196.248	2197.896	2200.214	2197.785	2195.824
15.0	2159.482	2162.089	2165.097	2165.654	2164.295	2164.228	2161.109	2158.970	2157.343	2156.185
17.5	2124.054	2121.358	2119.375	2118.082	2117.057	2116.032	2115.520	2115.520	2115.787	2114.517
20.0	2069.753	2068.928	2068.839	2068.082	2067.458	2067.614	2068.572	2069.040	2069.574	2070.666
22.5	2011.597	2012.176	2012.644	2013.446	2015.028	2017.301	2018.482	2020.554	2023.495	2025.189
25.0	1950.499	1951.814	1953.730	1956.738	1960.482	1963.111	1966.498	1967.879	1965.874	1964.916
27.5	1886.171	1888.801	1892.544	1897.245	1900.164	1899.184	1898.538	1897.089	1896.933	1896.555
30.0	1819.125	1823.982	1827.882	1825.520	1824.896	1825.096	1825.096	1826.099	1826.478	1827.726
32.5	1751.789	1748.936	1748.134	1748.379	1749.627	1750.452	1752.568	1753.928	1755.866	1757.916
35.0	1668.186	1668.209	1668.833	1671.484	1672.999	1676.208	1679.082	1682.670	1685.522	1685.032
37.5	1584.896	1586.345	1589.197	1592.383	1596.795	1601.318	1603.524	1603.012	1603.101	1602.499
40.0	1500.381	1504.436	1509.405	1514.173	1516.312	1517.293	1518.429	1518.697	1519.187	1520.590
42.5	1411.253	1421.257	1425.758	1427.719	1428.209	1430.348	1433.512	1435.852	1436.610	1437.947
45.0	1317.356	1325.623	1332.397	1336.185	1341.020	1343.850	1348.150	1353.453	1355.681	1356.550
47.5	1222.970	1232.729	1240.506	1245.987	1251.379	1258.354	1263.434	1268.447	1273.906	1273.639
50.0	1138.432	1147.367	1155.745	1161.538	1164.368	1171.186	1178.384	1183.397	1188.009	1191.285
52.5	1048.012	1065.325	1078.449	1074.371	1077.914	1086.582	1094.603	1100.530	1105.120	1109.109
55.0	931.789	961.513	967.885	970.849	983.060	998.300	1012.717	1020.360	1024.348	1027.133
57.5	803.266	832.233	851.707	859.038	875.081	904.159	928.112	932.502	936.423	942.662
60.0	689.650	716.879	735.685	744.865	764.339	798.787	822.228	833.792	842.393	856.453
62.5	594.617	614.894	635.639	651.370	672.872	699.766	724.811	733.211	745.199	764.741
65.0	505.690	526.457	545.129	562.910	584.033	610.282	631.115	637.221	648.317	672.114
67.5	435.078	448.202	462.552	476.055	497.936	524.719	545.397	557.050	565.762	585.125
70.0	376.009	382.136	389.846	404.062	422.645	444.793	464.401	478.617	486.683	502.392
72.5	322.554	327.701	334.364	345.215	355.754	370.817	385.568	398.959	410.100	422.578
75.0	267.585	275.138	281.734	290.914	296.752	303.570	313.575	327.055	340.268	351.810
77.5	213.551	221.795	229.594	236.211	240.579	245.681	254.171	265.067	275.784	284.430
80.0	163.795	169.923	175.694	180.974	184.807	189.352	196.126	204.861	212.793	218.586
82.5	117.560	120.768	123.242	127.275	129.481	133.937	140.689	149.379	156.331	161.544
85.0	79.591	83.379	86.075	91.223	94.275	99.043	103.767	109.427	113.794	117.203
87.5	57.064	58.713	59.849	62.300	63.504	65.643	67.648	70.077	71.726	73.085
90.0	35.050	34.359	34.136	33.646	33.133	32.576	31.930	31.017	29.880	29.078
92.5	37.100	38.503	40.063	41.957	44.052	46.257	48.263	50.335	52.207	53.610
95.0	39.506	42.960	46.347	50.625	55.326	60.273	64.930	69.921	74.734	78.254
97.5	64.751	66.378	68.027	70.367	73.063	76.271	82.243	90.153	97.684	103.166
100.0	101.539	106.486	111.922	117.315	122.284	127.564	133.425	140.243	146.370	149.846
102.5	142.917	148.911	158.024	165.823	172.819	180.150	188.706	198.132	205.908	210.208
105.0	193.140	202.633	212.637	220.859	227.521	234.362	245.726	257.469	266.359	271.083
107.5	247.887	260.031	272.732	284.095	293.610	302.968	313.864	324.181	330.999	333.963
110.0	311.569	323.713	337.260	350.897	362.862	374.471	386.325	396.308	401.990	403.906
112.5	383.406	397.489	413.019	424.361	435.680	448.358	459.811	468.100	472.601	474.361
115.0	460.925	476.790	491.407	503.618	513.957	525.053	534.033	540.450	543.614	545.575
117.5	547.714	561.150	574.920	584.078	592.790	601.012	607.586	612.644	615.161	617.947
120.0	638.357	646.824	655.782	664.561	672.226	676.348	680.916	685.105	688.135	691.633
122.5	725.346	729.624	733.925	739.896	745.979	750.792	755.605	759.036	762.557	766.211
125.0	806.363	808.591	810.931	815.343	819.978	825.102	829.804	833.882	838.160	842.326
127.5	876.997	881.966	887.136	892.015	896.761	902.020	905.429	909.328	913.651	918.041
130.0	950.060	954.383	960.711	968.197	976.486	979.517	982.770	986.558	990.212	995.114
132.5	1025.886	1030.297	1035.912	1042.775	1049.371	1055.654	1061.425	1064.723	1068.511	1073.747
135.0	1104.519	1108.440	1113.231	1118.891	1124.951	1130.188	1135.669	1140.727	1146.899	1153.829
137.5	1178.762	1185.937	1193.134	1198.215	1202.515	1207.372	1211.940	1217.488	1224.106	1231.281
140.0	1255.680	1262.320	1269.651	1277.271	1282.730	1286.474	1291.175	1296.924	1303.452	1310.850
142.5	1335.115	1339.393	1345.008	1351.136	1358.155	1366.265	1373.173	1378.721	1385.205	1391.177
145.0	1414.194	1417.336	1421.324	1426.939	1433.334	1441.044	1449.266	1458.424	1467.091	1473.108
147.5	1494.231	1496.259	1500.180	1505.394	1511.477	1517.850	1525.426	1532.355	1539.931	1546.393
150.0	1566.692	1575.271	1583.314	1586.211	1590.868	1596.260	1601.452	1607.713	1612.437	1617.473

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152.5	1641.002	1647.420	1655.085	1663.797	1670.860	1674.626	1678.704	1681.556	1685.433	1688.552
155.0	1713.954	1718.878	1724.493	1731.155	1738.464	1744.369	1751.231	1756.312	1757.181	1759.119
157.5	1785.457	1789.289	1792.431	1795.862	1800.207	1805.421	1809.232	1813.732	1818.946	1823.737
160.0	1852.949	1854.152	1856.202	1858.029	1860.034	1862.753	1866.140	1869.192	1872.490	1876.523
162.5	1916.453	1916.141	1916.497	1917.544	1918.658	1919.617	1921.221	1923.494	1926.212	1927.928
165.0	1964.492	1968.214	1972.336	1974.207	1974.430	1976.347	1975.277	1975.678	1976.614	1978.085
167.5	2006.026	2008.655	2010.861	2013.379	2016.209	2019.328	2022.715	2027.194	2026.370	2026.303
170.0	2042.034	2043.527	2045.287	2046.824	2048.139	2049.654	2051.392	2053.331	2055.470	2057.810
172.5	2073.251	2073.741	2074.387	2075.189	2076.170	2077.908	2077.752	2078.042	2078.443	2078.955
175.0	2098.251	2097.984	2097.806	2097.694	2097.650	2097.694	2097.828	2098.006	2098.274	2098.630
177.5	2116.478	2116.077	2115.720	2115.386	2115.074	2114.785	2114.517	2114.294	2114.094	2113.916
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

Vert. Angles **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2248.811	2248.543	2248.254	2248.009	2247.764	2247.541	2247.318	2247.140	2246.961	2246.805
5.0	2241.279	2240.656	2240.076	2239.541	2239.007	2238.517	2238.049	2237.603	2237.224	2236.845
7.5	2230.205	2230.161	2230.205	2230.294	2230.584	2229.849	2229.091	2228.356	2227.687	2227.064
10.0	2218.908	2218.886	2218.953	2219.131	2219.376	2219.711	2220.312	2219.376	2218.374	2217.438
12.5	2194.198	2192.928	2192.036	2190.677	2188.895	2187.424	2186.310	2185.530	2183.881	2181.965
15.0	2155.360	2153.823	2152.709	2152.018	2152.151	2150.235	2148.854	2147.896	2147.472	2145.422
17.5	2113.804	2113.670	2113.581	2112.757	2112.400	2112.534	2111.487	2110.328	2109.637	2108.702
20.0	2071.825	2071.780	2072.360	2073.741	2073.206	2073.318	2074.343	2072.850	2072.003	2071.803
22.5	2026.882	2027.595	2025.144	2023.183	2022.359	2019.596	2017.880	2016.387	2013.892	2012.354
25.0	1964.002	1962.108	1961.284	1959.791	1958.632	1957.919	1955.981	1955.045	1953.084	1951.502
27.5	1896.466	1896.889	1895.998	1896.243	1895.329	1895.062	1894.193	1893.123	1892.187	1890.605
30.0	1828.929	1829.776	1830.979	1831.224	1832.293	1831.915	1832.538	1831.313	1831.179	1829.642
32.5	1760.724	1763.063	1764.890	1763.464	1762.239	1760.746	1759.275	1757.359	1755.777	1753.616
35.0	1684.430	1684.965	1684.096	1683.583	1682.425	1682.358	1680.575	1679.573	1677.901	1676.253
37.5	1602.388	1602.833	1604.304	1603.301	1603.034	1602.945	1602.187	1602.076	1600.070	1598.956
40.0	1520.724	1521.749	1523.197	1523.911	1523.799	1523.732	1524.044	1523.242	1522.284	1521.749
42.5	1440.063	1441.088	1442.804	1444.965	1443.740	1443.584	1444.787	1443.250	1442.514	1442.091
45.0	1358.021	1359.269	1360.739	1361.586	1361.876	1362.299	1362.723	1362.633	1362.477	1361.475
47.5	1274.976	1277.249	1278.608	1279.499	1280.123	1280.970	1281.505	1282.062	1282.574	1281.193
50.0	1193.535	1195.140	1197.078	1198.705	1198.460	1199.507	1200.599	1201.512	1202.470	1201.022
52.5	1111.694	1114.122	1116.284	1118.311	1117.086	1117.576	1118.935	1119.782	1120.517	1119.626
55.0	1029.718	1032.280	1033.439	1034.910	1035.088	1035.333	1036.826	1037.494	1038.341	1038.096
57.5	947.319	949.770	950.907	952.177	953.224	953.514	954.806	955.341	956.277	956.544
60.0	864.007	867.839	869.243	870.045	871.449	872.563	872.808	873.343	874.279	874.947
62.5	780.338	786.867	788.070	787.424	788.894	788.983	788.805	788.293	788.025	787.936
65.0	693.995	700.992	701.170	701.415	704.691	705.025	704.000	702.551	701.215	700.457
67.5	607.474	613.980	614.003	615.273	620.086	621.534	619.573	617.145	614.582	613.089
70.0	519.416	527.192	527.660	529.019	535.169	538.467	535.436	532.005	528.128	525.744
72.5	434.722	443.078	445.061	446.866	453.015	457.360	454.375	451.433	448.403	447.289
75.0	361.793	368.321	370.037	370.616	374.026	377.190	374.293	371.731	369.413	369.391
77.5	290.713	294.434	295.147	295.014	295.883	297.019	294.212	291.916	290.334	291.493
80.0	221.082	221.283	220.369	219.923	218.408	216.893	214.130	212.058	211.189	213.551
82.5	163.372	163.483	163.550	164.352	163.528	162.324	160.564	159.762	160.052	162.770
85.0	118.072	117.783	117.315	117.070	115.621	113.482	111.098	110.296	110.719	112.970
87.5	72.862	72.127	71.191	69.854	67.782	64.640	61.632	60.852	61.454	63.169
90.0	27.697	26.516	25.112	22.616	19.920	15.776	12.166	11.386	12.188	13.369
92.5	53.789	53.455	52.741	51.917	50.580	48.241	46.124	46.257	47.862	49.466
95.0	79.926	80.416	80.438	81.262	81.262	80.705	80.104	81.151	83.557	85.563
97.5	106.196	107.466	108.313	110.719	112.056	113.282	114.128	116.134	119.276	121.682

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CANDELA TABULATION - (Cont.)

100.0	150.693	150.025	149.356	150.649	151.183	152.052	152.587	154.102	156.888	156.620
102.5	211.701	212.102	212.838	214.932	216.670	218.297	219.032	220.748	223.711	225.962
105.0	273.177	274.626	276.631	279.595	282.424	284.608	285.566	287.482	290.602	293.120
107.5	335.121	337.728	340.848	344.680	348.490	351.053	352.167	354.306	357.559	360.300
110.0	405.577	407.070	410.167	414.066	417.832	419.993	420.796	422.600	425.497	428.104
112.5	476.701	477.815	482.205	486.884	491.229	493.791	495.307	497.624	500.899	503.930
115.0	547.758	549.318	555.267	560.281	565.094	568.013	570.018	572.826	576.435	579.800
117.5	619.774	622.470	628.486	634.190	639.516	642.680	644.952	648.206	652.150	655.715
120.0	693.772	698.518	704.490	710.216	715.520	719.441	721.023	724.499	728.443	731.919
122.5	769.397	775.480	781.497	787.535	792.727	796.247	799.144	803.222	807.232	810.664
125.0	847.006	853.222	859.439	865.767	870.469	874.078	877.688	882.256	886.133	889.520
127.5	924.190	930.942	937.938	944.935	948.790	952.489	956.589	961.491	965.212	968.487
130.0	1001.977	1008.394	1015.458	1022.209	1027.044	1031.055	1035.667	1040.525	1044.446	1047.610
132.5	1080.120	1087.206	1094.091	1100.151	1105.499	1109.978	1114.835	1119.559	1123.837	1126.979
135.0	1160.112	1166.708	1173.749	1179.520	1184.556	1189.458	1194.538	1199.017	1203.206	1206.481
137.5	1239.013	1246.188	1253.318	1260.359	1264.526	1269.339	1275.511	1278.898	1282.708	1286.451
140.0	1317.423	1324.464	1330.570	1336.407	1341.889	1347.125	1352.807	1357.843	1361.542	1365.084
142.5	1397.616	1402.696	1408.557	1412.924	1417.982	1423.084	1428.053	1434.159	1436.431	1439.685
145.0	1477.408	1481.909	1485.875	1490.465	1494.498	1499.556	1503.946	1508.625	1511.611	1514.374
147.5	1552.565	1558.470	1564.330	1567.895	1571.661	1575.828	1580.507	1583.916	1587.125	1589.174
150.0	1622.286	1626.809	1631.911	1636.568	1642.094	1647.130	1653.168	1656.555	1660.967	1663.017
152.5	1691.739	1695.727	1699.270	1703.882	1707.804	1712.550	1716.472	1719.970	1723.245	1725.206
155.0	1761.637	1764.110	1767.586	1770.528	1773.870	1777.725	1780.287	1783.875	1785.590	1787.462
157.5	1828.973	1833.519	1835.079	1837.173	1840.515	1842.031	1844.660	1847.245	1848.047	1849.829
160.0	1880.801	1884.077	1887.998	1892.856	1895.864	1899.719	1904.955	1906.047	1908.186	1911.216
162.5	1930.223	1933.119	1936.105	1938.378	1941.208	1944.617	1946.244	1947.558	1949.408	1950.967
165.0	1979.889	1980.847	1982.318	1984.279	1987.532	1987.287	1987.955	1989.070	1991.053	1990.830
167.5	2026.682	2027.484	2028.709	2029.222	2028.977	2029.133	2029.667	2030.581	2030.737	2030.625
170.0	2060.261	2061.196	2062.288	2063.536	2064.895	2066.388	2068.438	2068.594	2069.017	2069.084
172.5	2079.579	2080.292	2081.116	2082.052	2083.434	2083.345	2083.456	2083.657	2083.946	2084.325
175.0	2099.031	2098.808	2098.630	2098.519	2098.452	2098.452	2098.519	2098.630	2098.808	2099.031
177.5	2113.760	2113.648	2113.537	2113.492	2113.448	2113.448	2113.470	2113.515	2113.581	2113.693
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

**Vert.
Angles**

Horizontal Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2246.672	2246.538	2246.449	2245.936	2245.446	2244.978	2244.533	2244.132	2243.731	2243.352
5.0	2236.511	2236.221	2235.976	2234.974	2234.016	2233.102	2232.233	2231.409	2230.629	2229.893
7.5	2226.484	2225.972	2225.504	2224.033	2222.629	2221.270	2220.000	2218.775	2217.638	2216.569
10.0	2216.569	2215.767	2215.031	2213.115	2211.266	2209.505	2207.834	2206.230	2204.447	2201.372
12.5	2180.383	2179.135	2178.244	2175.949	2174.032	2172.428	2171.203	2169.598	2167.058	2164.852
15.0	2143.684	2142.347	2141.434	2138.715	2136.398	2134.504	2132.744	2129.357	2126.394	2123.853
17.5	2106.874	2105.515	2104.646	2101.482	2098.786	2096.558	2093.126	2089.316	2085.996	2082.743
20.0	2069.975	2068.639	2067.836	2064.249	2061.174	2058.456	2053.710	2049.521	2045.666	2040.563
22.5	2010.215	2008.009	2006.739	2003.018	2000.255	1997.314	1993.571	1990.763	1987.176	1983.900
25.0	1949.831	1947.246	1945.664	1941.653	1938.690	1934.880	1931.025	1927.527	1923.003	1919.550
27.5	1889.514	1886.505	1884.567	1880.311	1877.169	1872.646	1868.702	1863.912	1859.165	1854.754
30.0	1829.263	1825.787	1823.470	1819.013	1815.693	1810.613	1806.513	1800.564	1795.016	1790.247
32.5	1752.190	1748.602	1745.951	1741.918	1738.887	1734.386	1730.576	1725.964	1722.131	1718.633
35.0	1674.559	1671.239	1668.454	1664.733	1661.569	1656.912	1652.478	1648.222	1643.899	1639.866
37.5	1596.973	1593.876	1590.935	1587.659	1584.317	1579.549	1574.847	1570.881	1566.135	1561.500
40.0	1519.454	1516.513	1513.416	1510.653	1507.132	1502.297	1497.618	1493.406	1488.816	1483.580
42.5	1439.685	1437.100	1434.114	1431.797	1428.365	1423.931	1419.608	1415.197	1410.896	1405.927
45.0	1359.781	1357.642	1354.812	1352.963	1349.665	1345.521	1341.644	1336.942	1332.397	1328.029

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CANDELA TABULATION - (Cont.)

47.5	1279.856	1278.162	1275.489	1274.218	1271.144	1267.333	1264.013	1259.022	1254.543	1250.243
50.0	1199.908	1198.638	1196.187	1195.496	1192.755	1189.391	1186.361	1181.436	1177.359	1172.746
52.5	1118.779	1117.821	1115.526	1114.746	1111.961	1108.775	1105.789	1102.068	1098.592	1094.291
55.0	1037.584	1036.982	1034.865	1033.952	1031.144	1027.958	1025.017	1022.164	1018.755	1014.678
57.5	956.366	956.121	954.204	953.179	950.372	947.208	944.645	942.395	939.053	935.844
60.0	875.126	875.237	873.544	872.385	869.666	866.525	864.631	862.826	859.684	857.478
62.5	787.535	787.357	785.730	785.307	783.012	780.561	779.513	778.266	776.327	774.812
65.0	699.699	699.410	697.917	698.206	696.201	694.218	693.483	692.369	690.831	689.138
67.5	611.908	611.463	610.103	611.128	609.413	608.009	607.541	606.739	605.469	604.020
70.0	524.117	523.493	522.290	524.073	522.669	521.889	521.622	521.332	520.218	519.460
72.5	446.286	445.484	444.103	445.150	443.835	443.345	442.944	442.676	440.827	439.869
75.0	368.767	367.564	365.893	366.249	365.269	365.358	365.247	365.558	363.419	362.907
77.5	291.248	289.621	287.705	287.326	286.702	287.416	287.594	288.530	286.056	286.079
80.0	213.751	211.701	209.495	208.381	208.158	209.495	209.963	211.612	208.760	209.406
82.5	163.082	161.433	159.606	159.116	159.071	160.141	160.297	161.389	158.514	158.492
85.0	112.791	111.299	109.717	109.939	110.430	111.744	112.502	113.906	112.524	113.349
87.5	62.501	61.120	59.805	60.785	61.766	63.370	64.707	66.445	66.757	68.272
90.0	12.211	10.963	9.915	11.609	13.124	14.974	16.890	18.962	20.967	23.173
92.5	49.087	48.307	48.107	50.068	51.850	53.811	55.794	57.889	59.894	62.256
95.0	85.942	85.630	86.276	88.526	90.554	92.626	94.721	96.815	98.821	101.339
97.5	122.841	122.974	124.467	126.985	129.280	131.442	133.625	135.675	137.703	140.287
100.0	159.160	160.208	162.636	165.288	167.405	168.898	174.178	177.253	180.395	184.317
102.5	227.767	228.435	230.574	234.162	236.791	239.598	242.384	245.213	247.843	251.029
105.0	295.348	296.417	298.490	302.790	305.197	307.982	310.589	313.196	315.379	317.853
107.5	362.974	364.422	366.427	371.218	373.625	376.365	378.816	381.200	383.005	384.832
110.0	428.750	431.937	434.343	439.245	440.114	445.217	447.868	450.475	452.481	454.330
112.5	506.715	508.520	510.280	515.316	518.435	521.042	523.382	525.588	527.214	528.551
115.0	582.585	584.546	586.217	590.852	594.528	596.935	598.962	600.812	602.149	603.040
117.5	658.478	660.594	662.154	666.388	670.577	672.872	674.610	676.214	677.284	677.818
120.0	731.563	735.908	738.091	741.211	743.684	749.099	750.658	752.196	753.265	753.644
122.5	813.449	815.744	817.482	821.983	825.771	827.665	828.668	829.759	830.784	830.472
125.0	892.394	894.845	896.895	901.931	905.006	906.365	906.877	907.524	908.303	907.657
127.5	971.406	973.968	976.286	981.834	984.374	985.176	985.332	985.444	985.867	985.332
130.0	1050.463	1052.267	1055.677	1060.824	1063.832	1064.121	1063.988	1063.386	1063.364	1062.874
132.5	1129.675	1132.260	1134.822	1140.148	1142.465	1142.866	1142.532	1141.418	1140.794	1140.393
135.0	1208.932	1211.405	1213.946	1218.669	1221.098	1221.789	1221.054	1219.806	1218.825	1218.090
137.5	1288.256	1290.573	1293.091	1297.191	1299.754	1300.845	1299.776	1298.617	1297.525	1295.966
140.0	1367.424	1368.895	1372.215	1374.911	1378.231	1379.078	1377.741	1376.359	1374.198	1371.791
142.5	1442.113	1444.074	1446.481	1449.711	1452.341	1452.697	1451.561	1450.469	1447.973	1445.946
145.0	1516.892	1518.474	1520.769	1523.688	1526.584	1526.495	1525.715	1524.267	1522.195	1520.256
147.5	1591.759	1592.896	1595.035	1597.686	1600.962	1600.449	1600.249	1598.355	1596.884	1595.191
150.0	1663.886	1666.604	1669.301	1670.972	1672.665	1673.512	1673.111	1669.924	1667.317	1664.354
152.5	1727.702	1728.615	1730.621	1732.492	1735.456	1734.854	1734.386	1732.448	1730.197	1727.858
155.0	1789.222	1790.069	1791.963	1793.478	1795.996	1796.308	1795.751	1795.283	1792.988	1791.673
157.5	1850.765	1851.545	1853.283	1854.464	1856.603	1857.895	1857.249	1857.517	1856.135	1854.754
160.0	1910.592	1912.598	1914.603	1915.093	1915.561	1918.213	1916.453	1915.249	1914.313	1910.971
162.5	1951.458	1952.438	1953.909	1954.488	1955.535	1957.050	1956.716	1955.669	1955.134	1954.310
165.0	1991.186	1991.988	1993.236	1993.615	1994.440	1995.687	1997.002	1996.111	1995.665	1995.643
167.5	2030.893	2031.539	2032.542	2032.787	2033.411	2034.391	2035.728	2036.552	2036.196	2036.196
170.0	2069.998	2070.934	2071.847	2071.847	2071.847	2071.869	2072.694	2073.140	2073.362	2072.159
172.5	2084.793	2085.328	2085.952	2085.952	2086.019	2086.174	2086.420	2086.709	2087.088	2087.556
175.0	2099.321	2099.677	2100.078	2100.034	2100.056	2100.123	2100.257	2100.435	2100.658	2100.925
177.5	2113.826	2113.982	2114.183	2114.138	2114.138	2114.161	2114.205	2114.272	2114.384	2114.517
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2243.017	2242.683	2242.394	2242.126	2241.903	2241.681	2241.502	2241.346	2241.235	2241.146
5.0	2229.225	2228.601	2228.022	2227.509	2227.019	2225.972	2224.991	2224.078	2223.253	2222.518
7.5	2215.343	2213.293	2211.332	2209.483	2207.745	2206.118	2204.626	2203.244	2201.996	2200.749
10.0	2198.431	2195.646	2192.972	2190.477	2187.959	2185.285	2182.566	2180.026	2177.664	2175.458
12.5	2163.025	2161.577	2160.062	2158.524	2157.388	2156.675	2156.385	2155.962	2151.305	2146.960
15.0	2121.603	2118.751	2116.367	2114.495	2112.445	2110.462	2108.100	2106.206	2104.802	2103.755
17.5	2078.821	2075.457	2072.649	2068.973	2065.252	2062.043	2058.456	2055.938	2052.997	2050.724
20.0	2036.040	2032.118	2026.882	2022.225	2018.148	2012.956	2008.076	2003.909	1999.876	1995.086
22.5	1981.561	1978.374	1976.124	1974.230	1968.704	1962.353	1956.270	1949.096	1942.812	1937.063
25.0	1915.650	1912.397	1909.122	1904.532	1901.078	1897.112	1893.413	1889.068	1884.834	1877.125
27.5	1850.453	1846.509	1840.248	1835.235	1829.620	1824.673	1820.283	1815.938	1812.552	1809.321
30.0	1785.925	1778.527	1771.775	1764.979	1758.807	1753.036	1747.689	1742.809	1737.439	1733.450
32.5	1714.243	1708.383	1703.080	1695.682	1688.931	1682.647	1676.074	1668.788	1662.972	1658.561
35.0	1634.273	1628.770	1622.976	1618.186	1613.997	1609.830	1603.546	1596.149	1590.667	1584.896
37.5	1555.796	1549.780	1543.028	1538.639	1533.759	1526.963	1522.017	1519.499	1516.290	1508.736
40.0	1478.433	1472.016	1465.844	1460.028	1452.608	1446.102	1442.091	1437.857	1431.975	1427.340
42.5	1400.646	1395.009	1388.191	1380.949	1373.151	1367.513	1362.834	1356.573	1350.757	1346.011
45.0	1322.013	1315.930	1309.669	1301.670	1295.097	1290.150	1284.134	1277.850	1271.344	1264.459
47.5	1244.271	1237.876	1231.014	1221.945	1218.001	1212.297	1206.392	1199.641	1192.622	1185.046
50.0	1167.109	1161.004	1153.539	1147.122	1142.755	1135.335	1128.873	1122.367	1114.479	1108.574
52.5	1089.389	1084.443	1077.402	1072.745	1066.929	1059.576	1053.983	1046.251	1038.943	1031.879
55.0	1009.776	1004.495	999.192	996.250	990.323	985.511	980.430	970.894	965.568	958.884
57.5	930.675	925.839	921.584	917.907	912.247	908.749	903.312	897.474	892.951	886.668
60.0	852.019	848.387	844.354	840.767	836.890	832.456	826.974	819.866	813.895	809.082
62.5	771.202	769.999	767.147	765.364	761.599	756.920	750.948	742.347	735.306	727.396
65.0	686.598	685.038	683.300	682.899	680.180	678.353	673.518	665.118	655.492	645.554
67.5	602.216	600.723	599.987	598.606	595.152	593.214	588.601	583.231	574.296	568.748
70.0	517.990	517.165	516.809	514.224	510.637	508.453	506.024	502.548	496.220	495.351
72.5	437.930	437.462	436.148	431.803	426.567	425.207	425.207	423.960	422.467	422.823
75.0	361.459	362.350	361.459	358.807	355.621	353.927	352.947	352.033	351.966	352.323
77.5	285.276	287.594	287.282	286.903	285.566	285.655	285.544	286.168	286.925	288.218
80.0	209.384	213.083	213.484	215.823	216.180	217.940	218.876	221.015	222.709	225.516
82.5	157.712	160.052	159.183	160.675	159.807	160.542	160.029	160.965	161.010	163.461
85.0	113.638	116.134	116.290	117.872	117.627	119.231	119.632	121.325	122.194	124.334
87.5	69.698	72.149	73.531	75.068	75.581	78.032	79.435	81.775	83.624	86.209
90.0	25.758	28.120	30.816	32.242	33.601	36.788	39.283	42.202	45.099	47.995
92.5	64.506	66.846	69.431	70.701	71.770	74.712	76.784	79.235	81.530	83.959
95.0	103.233	105.550	108.001	109.137	109.939	112.524	114.240	116.223	117.939	119.855
97.5	141.936	144.165	146.549	147.596	148.153	150.381	151.785	153.278	154.481	156.732
100.0	187.191	190.868	194.745	197.441	199.803	203.524	206.599	209.473	212.281	215.578
102.5	253.458	256.488	259.608	261.635	263.596	266.381	268.699	270.481	272.308	274.826
105.0	319.858	322.242	324.693	326.119	327.568	329.662	331.289	332.158	332.960	334.609
107.5	386.392	388.219	390.069	391.005	391.695	394.414	396.486	397.667	398.803	400.675
110.0	456.090	458.007	460.190	461.572	462.307	464.290	465.961	466.385	466.942	468.123
112.5	529.755	530.869	532.651	533.721	533.409	534.768	535.904	535.994	536.083	536.751
115.0	603.798	604.132	605.625	606.271	605.491	605.892	606.672	606.672	605.959	605.625
117.5	678.309	677.841	678.754	679.200	678.487	677.997	678.220	678.041	676.860	675.813
120.0	753.666	752.820	753.020	753.109	752.374	751.349	751.037	750.302	749.143	747.918
122.5	829.826	828.668	828.021	828.088	826.484	825.771	824.946	824.055	822.963	820.557
125.0	906.610	905.251	903.825	903.780	902.265	901.039	899.613	896.427	894.801	891.993
127.5	984.107	982.569	980.319	978.893	977.021	974.459	972.609	970.381	968.064	964.410
130.0	1061.537	1059.130	1056.122	1053.582	1051.955	1048.814	1046.608	1045.093	1042.931	1040.814

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CANDELA TABULATION - (Cont.)

132.5	1138.833	1136.315	1133.374	1128.717	1127.313	1124.706	1122.144	1120.651	1119.024	1114.880
135.0	1216.441	1214.503	1211.940	1207.751	1204.431	1202.069	1197.836	1193.914	1190.683	1186.984
137.5	1294.651	1293.604	1289.905	1285.270	1280.212	1275.756	1271.767	1267.489	1263.969	1261.139
140.0	1369.786	1367.112	1363.837	1360.004	1355.325	1351.448	1347.214	1343.426	1339.839	1337.009
142.5	1443.651	1441.088	1437.924	1434.872	1431.485	1427.853	1424.822	1421.190	1418.093	1413.258
145.0	1518.117	1516.290	1513.616	1511.254	1507.823	1505.127	1502.208	1496.637	1489.975	1484.048
147.5	1593.542	1591.581	1589.642	1585.075	1580.195	1575.226	1570.836	1566.246	1562.035	1556.465
150.0	1661.858	1657.959	1654.728	1650.584	1646.662	1642.919	1639.688	1637.192	1633.516	1630.775
152.5	1725.072	1722.866	1719.546	1717.251	1713.664	1710.522	1708.094	1706.467	1706.110	1704.350
155.0	1789.200	1787.150	1785.367	1782.983	1781.580	1779.240	1776.923	1773.981	1772.734	1768.389
157.5	1854.241	1852.035	1850.698	1849.829	1846.220	1841.852	1837.641	1832.316	1827.904	1824.094
160.0	1908.208	1905.958	1901.925	1898.538	1895.775	1892.143	1888.734	1885.971	1883.319	1880.244
162.5	1951.769	1949.742	1948.227	1945.798	1943.369	1941.520	1939.448	1937.932	1936.016	1934.679
165.0	1995.732	1993.882	1992.501	1991.587	1990.540	1989.693	1988.602	1988.045	1987.978	1988.201
167.5	2036.575	2037.332	2037.266	2036.441	2035.995	2035.951	2036.307	2036.486	2033.232	2030.091
170.0	2071.090	2070.109	2069.285	2068.572	2067.881	2065.786	2063.670	2061.731	2059.971	2058.411
172.5	2087.823	2087.088	2086.442	2085.885	2085.439	2085.083	2084.838	2084.682	2084.615	2084.370
175.0	2101.259	2101.638	2102.062	2102.529	2103.042	2102.819	2102.641	2102.529	2102.507	2102.529
177.5	2114.651	2114.829	2115.052	2115.275	2115.520	2115.787	2116.099	2116.411	2116.745	2117.102
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2241.079	2241.034	2241.034	2241.057	2241.101	2241.190	2241.302	2241.458	2241.614	2241.814
5.0	2221.872	2221.293	2220.802	2220.424	2220.112	2219.889	2219.755	2219.733	2219.777	2219.911
7.5	2199.233	2197.874	2196.649	2195.579	2194.643	2193.886	2193.262	2192.794	2192.504	2192.348
10.0	2173.453	2171.626	2169.442	2166.969	2164.785	2162.847	2161.198	2159.817	2158.702	2157.900
12.5	2142.904	2139.161	2135.730	2132.655	2129.446	2126.371	2123.653	2121.313	2119.330	2117.726
15.0	2102.418	2101.705	2099.321	2094.753	2090.564	2086.442	2081.963	2077.997	2074.588	2071.713
17.5	2049.142	2047.203	2045.242	2044.039	2043.594	2040.162	2034.636	2029.043	2024.164	2020.019
20.0	1991.119	1987.955	1985.215	1982.474	1980.625	1979.644	1979.600	1975.834	1969.484	1963.980
22.5	1931.381	1926.279	1922.090	1918.636	1915.494	1913.355	1912.174	1912.018	1911.907	1905.044
25.0	1870.351	1863.822	1858.141	1853.417	1849.384	1845.952	1843.635	1842.476	1842.432	1842.877
27.5	1807.092	1799.227	1793.968	1787.618	1782.359	1777.190	1772.778	1769.948	1768.678	1768.366
30.0	1730.398	1728.214	1727.011	1719.725	1711.391	1703.191	1699.270	1694.880	1691.627	1689.599
32.5	1655.107	1649.626	1644.813	1641.582	1641.715	1633.271	1626.163	1619.300	1613.841	1609.897
35.0	1576.875	1570.123	1565.734	1562.637	1559.673	1557.378	1552.030	1543.496	1536.589	1531.553
37.5	1500.626	1494.454	1488.705	1482.265	1475.180	1474.133	1471.971	1468.139	1459.649	1453.098
40.0	1424.421	1418.628	1409.760	1402.942	1397.549	1392.915	1388.948	1386.520	1383.846	1376.983
42.5	1340.285	1334.870	1332.129	1325.088	1319.585	1313.145	1308.756	1306.082	1304.767	1301.380
45.0	1257.774	1253.786	1250.421	1246.700	1243.959	1237.431	1232.039	1227.449	1224.128	1223.014
47.5	1179.787	1174.930	1169.515	1165.972	1164.056	1162.898	1157.505	1151.422	1147.122	1144.337
50.0	1103.850	1097.188	1092.420	1087.584	1085.713	1083.395	1081.813	1077.090	1069.781	1064.924
52.5	1026.799	1021.808	1017.619	1013.786	1008.974	1004.495	1001.375	998.612	994.691	989.209
55.0	952.466	947.899	942.462	938.094	932.836	928.313	924.235	921.361	919.957	915.567
57.5	880.540	873.388	866.101	859.885	856.565	855.985	850.950	846.894	843.686	842.661
60.0	805.984	798.743	790.610	784.148	780.271	778.667	778.355	775.882	771.447	768.974
62.5	723.095	718.862	714.606	709.503	706.429	704.000	702.819	703.153	701.326	697.226
65.0	644.395	640.184	636.619	634.279	633.611	630.937	631.071	629.689	628.508	626.993
67.5	567.834	564.358	562.175	560.727	559.813	560.147	561.573	558.365	556.894	554.800
70.0	493.881	491.697	490.360	489.625	489.714	488.934	489.914	489.602	487.686	483.453
72.5	421.977	420.372	419.481	419.927	420.818	421.910	422.021	420.261	417.030	417.654
75.0	352.724	350.407	350.540	350.830	353.370	354.997	354.752	353.615	352.033	352.145
77.5	287.727	285.544	284.519	284.251	287.950	288.819	289.711	288.418	289.220	290.401

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CANDELA TABULATION - (Cont.)

80.0	225.293	225.004	224.669	226.630	228.212	228.346	227.521	227.276	229.995	231.822
82.5	163.996	165.399	166.023	169.945	172.039	173.911	173.510	174.713	176.295	178.033
85.0	123.465	123.375	122.306	124.445	124.311	124.356	122.194	124.913	127.654	131.286
87.5	87.212	88.393	89.106	92.092	93.183	94.498	94.008	95.612	96.481	97.796
90.0	51.226	53.566	56.217	59.671	62.390	64.885	67.069	69.698	72.617	74.645
92.5	86.722	88.571	90.509	93.094	95.122	96.704	98.264	100.113	101.740	103.054
95.0	122.150	123.598	124.868	126.539	127.921	128.723	129.681	133.024	135.965	138.951
97.5	161.121	164.642	167.694	171.148	174.134	176.696	178.791	180.974	182.690	184.473
100.0	218.742	221.015	222.798	225.182	227.210	228.591	229.727	231.243	233.894	235.654
102.5	277.166	278.324	278.926	279.884	283.360	284.987	287.104	287.772	290.067	290.268
105.0	337.795	339.422	340.491	341.850	344.948	345.928	347.087	347.555	348.424	349.917
107.5	402.480	404.552	405.020	405.800	407.716	409.098	409.253	409.142	409.432	411.682
110.0	469.415	470.640	471.331	471.108	471.777	472.690	473.983	473.938	473.559	472.735
112.5	537.375	537.598	538.088	537.308	537.798	539.380	541.118	540.049	538.222	538.021
115.0	605.758	605.870	605.937	605.647	605.825	606.160	605.937	605.758	606.004	605.647
117.5	675.412	675.613	676.281	675.256	673.317	672.315	672.226	673.518	673.251	670.399
120.0	746.870	746.224	745.088	743.751	742.369	741.500	741.768	739.941	737.712	736.531
122.5	817.571	815.499	814.340	813.917	813.427	813.583	809.416	806.207	804.536	804.826
125.0	889.185	886.957	885.843	885.665	884.595	880.785	877.421	875.148	874.502	872.162
127.5	962.805	960.622	957.413	955.564	952.489	950.149	948.077	946.673	943.866	939.721
130.0	1038.965	1033.484	1028.715	1023.724	1022.766	1021.496	1020.984	1017.530	1012.739	1010.377
132.5	1110.312	1105.856	1100.864	1097.322	1095.339	1094.781	1090.704	1086.025	1082.705	1081.256
135.0	1183.709	1179.899	1176.623	1172.880	1169.983	1164.212	1159.689	1156.436	1154.453	1154.074
137.5	1258.242	1256.081	1253.652	1246.856	1241.553	1235.336	1231.437	1229.298	1228.629	1226.513
140.0	1334.915	1331.461	1325.779	1320.231	1315.262	1311.051	1307.174	1304.745	1302.606	1296.812
142.5	1407.309	1402.073	1397.638	1393.338	1387.879	1387.099	1385.517	1382.487	1374.978	1369.474
145.0	1478.700	1474.534	1470.857	1468.339	1466.267	1464.730	1460.273	1453.388	1447.929	1444.052
147.5	1551.830	1548.109	1545.591	1544.098	1543.318	1536.634	1530.350	1524.735	1520.657	1518.206
150.0	1627.121	1623.823	1621.528	1616.269	1609.563	1602.544	1598.979	1595.235	1592.806	1591.759
152.5	1702.679	1695.192	1689.198	1682.090	1676.141	1671.351	1667.696	1665.156	1663.819	1663.596
155.0	1764.578	1758.674	1753.148	1748.446	1744.124	1740.068	1737.172	1735.456	1734.966	1735.434
157.5	1820.907	1818.011	1815.693	1813.331	1810.167	1807.850	1806.446	1805.956	1805.176	1799.026
160.0	1877.994	1876.590	1875.520	1874.228	1873.537	1873.493	1874.117	1871.042	1865.271	1860.302
162.5	1933.922	1933.186	1932.741	1933.030	1934.078	1932.250	1928.262	1923.761	1919.973	1916.876
165.0	1987.577	1987.488	1985.750	1981.917	1978.552	1975.455	1972.403	1969.840	1967.768	1966.186
167.5	2027.216	2024.609	2022.270	2020.220	2017.769	2015.340	2013.312	2011.663	2010.438	2009.591
170.0	2057.030	2055.849	2054.423	2052.818	2051.415	2050.278	2049.365	2048.696	2048.295	2048.117
172.5	2083.345	2082.453	2081.740	2081.139	2080.715	2080.448	2080.314	2080.359	2080.537	2080.871
175.0	2102.619	2102.775	2102.997	2103.309	2103.666	2104.089	2104.579	2105.136	2105.738	2106.429
177.5	2117.503	2117.904	2118.305	2118.751	2119.219	2119.687	2120.177	2120.667	2121.180	2121.714
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

**Vert.
Angles**

Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2242.059	2242.304	2242.171	2242.616	2243.062	2243.508	2243.953	2244.399	2244.845	2244.087
5.0	2220.134	2220.468	2220.869	2221.359	2221.315	2222.251	2223.164	2224.100	2225.036	2223.588
7.5	2192.371	2192.549	2192.861	2193.373	2194.019	2194.131	2195.490	2196.849	2198.208	2195.958
10.0	2157.365	2157.120	2157.143	2157.477	2158.079	2157.744	2159.571	2161.421	2163.270	2160.418
12.5	2116.523	2115.698	2115.275	2115.253	2115.631	2116.411	2116.790	2118.996	2121.202	2117.570
15.0	2069.418	2067.703	2066.544	2065.965	2065.965	2066.566	2066.589	2069.196	2071.825	2067.814
17.5	2016.588	2013.914	2011.975	2010.794	2010.393	2010.750	2010.349	2013.379	2016.410	2011.574
20.0	1959.368	1955.624	1952.772	1950.856	1949.876	1949.853	1948.851	1952.171	1955.491	1950.477
22.5	1899.206	1894.416	1890.695	1888.065	1886.528	1886.127	1884.567	1888.154	1891.742	1885.882
25.0	1836.393	1829.954	1824.673	1820.595	1817.788	1816.273	1816.094	1816.585	1819.949	1814.468

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CANDELA TABULATION - (Cont.)

27.5	1769.882	1761.013	1754.150	1749.026	1745.616	1743.945	1743.968	1744.859	1749.026	1742.742
30.0	1688.307	1687.483	1679.350	1672.977	1668.432	1665.735	1664.956	1665.134	1669.278	1663.619
32.5	1607.624	1607.245	1604.371	1597.575	1592.873	1590.289	1589.798	1590.378	1595.102	1587.904
35.0	1528.389	1526.919	1527.565	1521.393	1515.599	1512.056	1510.831	1510.764	1515.510	1508.692
37.5	1448.575	1446.859	1447.528	1446.904	1440.620	1436.632	1435.028	1434.627	1439.239	1430.861
40.0	1372.304	1369.407	1368.293	1369.541	1363.235	1357.910	1355.392	1354.300	1359.046	1351.448
42.5	1294.384	1289.593	1286.986	1286.429	1283.532	1277.694	1275.132	1274.241	1279.767	1272.035
45.0	1219.093	1209.667	1207.996	1206.637	1207.707	1201.022	1197.145	1194.605	1198.816	1191.508
47.5	1143.312	1137.050	1131.658	1129.252	1130.098	1125.909	1122.077	1120.183	1125.397	1117.242
50.0	1062.941	1061.893	1055.320	1052.557	1053.337	1052.691	1047.989	1044.981	1049.638	1041.995
52.5	985.377	984.107	981.500	978.336	978.447	980.586	974.481	970.158	974.191	965.925
55.0	910.420	908.794	909.930	905.964	904.293	906.142	899.859	892.973	895.402	888.874
57.5	837.603	836.132	835.731	834.684	830.450	830.071	826.373	819.643	822.986	816.346
60.0	768.684	765.052	762.267	762.178	756.964	755.003	753.822	746.803	750.770	743.149
62.5	695.154	695.889	689.383	686.241	685.773	682.542	682.453	679.066	681.762	676.147
65.0	623.072	620.621	620.242	617.367	618.459	614.136	614.315	610.259	610.839	606.204
67.5	554.242	550.744	551.056	549.987	549.162	547.692	544.951	542.522	544.661	539.113
70.0	483.386	484.054	482.695	485.569	483.252	481.536	475.899	473.470	473.983	470.016
72.5	417.097	417.141	418.656	417.787	414.312	412.440	408.028	405.198	406.713	403.683
75.0	353.147	354.373	353.771	353.393	350.273	347.488	344.814	344.123	341.405	338.820
77.5	291.315	291.805	291.538	289.042	288.641	287.772	286.836	283.784	283.917	278.258
80.0	233.159	231.109	231.488	232.134	231.777	231.555	230.953	228.257	224.825	220.904
82.5	179.014	178.724	177.766	177.030	179.660	180.061	178.858	175.226	170.702	168.898
85.0	132.288	132.355	132.021	132.221	133.670	134.071	132.422	130.506	123.932	122.774
87.5	97.150	95.969	94.698	95.634	97.461	96.548	96.815	97.506	88.348	90.153
90.0	76.761	78.366	79.591	80.817	81.641	81.998	82.644	82.844	80.839	83.179
92.5	103.923	104.569	104.213	105.528	106.530	106.731	106.107	105.862	97.551	102.341
95.0	141.000	142.025	142.761	143.630	144.677	143.853	142.315	138.750	135.564	138.549
97.5	186.300	187.258	187.904	188.283	188.684	187.392	185.943	183.403	184.985	184.406
100.0	237.816	237.281	238.172	238.239	237.838	236.702	235.342	232.624	232.401	232.468
102.5	292.407	293.521	294.212	292.496	292.340	291.426	288.552	287.594	286.858	285.856
105.0	350.875	351.721	352.412	352.880	350.228	348.067	345.237	344.613	342.965	344.457
107.5	411.393	411.749	413.353	412.440	409.008	409.187	406.758	404.864	403.817	406.023
110.0	473.203	474.495	473.693	476.077	473.515	472.913	470.083	468.992	469.905	469.437
112.5	538.422	536.796	537.620	537.018	536.729	535.236	534.010	532.183	533.453	532.384
115.0	602.906	602.973	603.374	599.653	600.700	597.470	597.848	594.840	596.467	594.016
117.5	669.151	670.666	667.413	666.388	664.672	660.706	660.795	656.962	658.433	656.495
120.0	737.044	734.571	733.323	735.016	730.003	727.195	725.747	720.600	725.613	719.775
122.5	800.414	799.634	800.325	800.303	796.292	795.490	793.150	788.939	794.130	788.137
125.0	868.552	866.903	867.371	864.185	863.093	864.920	861.890	859.439	865.277	857.701
127.5	937.560	937.604	935.487	931.633	931.232	933.192	928.558	925.661	930.452	924.168
130.0	1009.531	1009.508	1003.336	1000.529	1000.818	1000.105	996.451	994.401	999.504	992.039
132.5	1082.393	1078.449	1073.903	1071.653	1072.277	1068.845	1065.681	1063.988	1069.269	1062.829
135.0	1151.289	1144.537	1144.938	1144.760	1146.141	1141.061	1139.190	1139.011	1145.094	1137.897
137.5	1221.076	1217.734	1216.865	1218.380	1217.488	1213.010	1211.316	1211.049	1216.308	1209.957
140.0	1292.668	1290.395	1290.261	1292.378	1287.276	1282.953	1281.148	1280.569	1285.315	1279.700
142.5	1366.020	1364.884	1365.686	1364.951	1358.823	1355.169	1353.966	1354.033	1358.890	1353.097
145.0	1441.757	1441.111	1442.537	1436.788	1431.151	1427.519	1426.003	1425.535	1429.680	1424.689
147.5	1517.137	1517.538	1515.421	1509.316	1504.926	1502.408	1501.807	1502.141	1506.709	1501.651
150.0	1591.581	1591.982	1585.899	1581.398	1578.546	1577.387	1577.967	1579.415	1584.428	1578.992
152.5	1664.532	1658.739	1653.792	1650.361	1648.467	1648.133	1649.314	1651.274	1656.176	1650.851
155.0	1729.663	1724.114	1719.747	1716.605	1714.734	1714.154	1714.912	1716.316	1720.505	1715.959
157.5	1793.567	1789.178	1785.858	1783.630	1782.515	1782.560	1781.379	1785.546	1789.735	1785.033
160.0	1856.180	1852.927	1850.565	1849.116	1848.604	1849.049	1848.470	1852.436	1856.425	1852.013
162.5	1914.469	1912.798	1911.862	1911.640	1912.174	1913.444	1914.001	1917.856	1921.711	1917.411
165.0	1965.116	1964.559	1964.515	1965.005	1966.008	1967.545	1968.570	1971.935	1975.299	1971.734

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167.5	2009.146	2009.101	2009.458	2010.215	2011.374	2012.911	2014.092	2016.967	2019.841	2016.833
170.0	2048.206	2048.540	2049.142	2049.989	2051.080	2051.325	2053.554	2055.804	2058.055	2055.670
172.5	2081.362	2082.008	2082.810	2083.768	2084.882	2085.506	2087.244	2089.004	2090.765	2089.004
175.0	2107.164	2107.944	2108.813	2109.727	2110.328	2111.487	2112.668	2113.871	2115.052	2113.893
177.5	2122.249	2122.806	2123.319	2123.898	2124.500	2125.079	2125.680	2126.282	2126.884	2126.327
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

**Vert.
Angles**

Horizontal Angles

	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2243.329	2242.594	2241.837	2241.101	2240.366	2240.210	2239.675	2239.163	2238.672	2238.249
5.0	2222.139	2220.691	2219.265	2218.775	2217.772	2216.836	2216.012	2215.276	2214.608	2214.051
7.5	2193.730	2191.502	2190.521	2189.006	2187.691	2186.555	2185.597	2184.817	2184.238	2183.836
10.0	2157.566	2154.736	2154.023	2152.397	2151.037	2149.946	2149.143	2148.609	2148.319	2148.319
12.5	2113.916	2112.133	2109.972	2108.234	2106.941	2106.095	2105.694	2105.760	2106.251	2107.186
15.0	2063.803	2062.333	2060.305	2058.812	2057.854	2057.453	2057.542	2058.144	2059.258	2060.840
17.5	2006.739	2005.380	2003.285	2001.993	2001.525	2001.882	2003.063	2005.046	2007.853	2011.485
20.0	1945.486	1944.751	1943.013	1942.166	1942.166	1943.035	1944.684	1947.135	1950.343	1954.287
22.5	1880.021	1879.420	1877.726	1877.236	1877.971	1879.932	1883.119	1887.530	1892.789	1891.809
25.0	1811.839	1809.833	1809.098	1809.588	1811.237	1813.978	1817.743	1821.487	1818.657	1817.610
27.5	1739.689	1737.506	1736.993	1738.174	1741.049	1745.594	1751.009	1748.803	1747.042	1745.728
30.0	1661.858	1660.945	1661.769	1664.243	1668.231	1673.668	1671.440	1669.746	1669.702	1671.039
32.5	1584.941	1583.203	1583.782	1586.768	1592.183	1593.787	1592.650	1592.472	1592.985	1595.235
35.0	1506.597	1505.595	1506.731	1509.940	1513.371	1510.007	1508.759	1510.363	1513.839	1518.875
37.5	1427.719	1426.070	1427.273	1431.396	1431.240	1430.014	1430.594	1432.086	1435.629	1441.155
40.0	1349.509	1348.774	1350.490	1353.008	1349.242	1347.771	1349.286	1353.498	1359.425	1360.450
42.5	1270.586	1270.609	1273.661	1273.572	1271.589	1272.258	1274.263	1278.140	1278.029	1277.494
45.0	1191.084	1192.176	1196.410	1193.446	1192.421	1191.062	1198.215	1200.643	1199.797	1199.150
47.5	1116.150	1116.885	1118.178	1115.214	1115.660	1119.047	1122.188	1119.581	1119.871	1122.500
50.0	1042.018	1043.667	1041.951	1038.987	1039.188	1043.444	1042.285	1042.107	1043.065	1046.207
52.5	966.259	968.754	965.613	964.699	966.861	966.482	964.142	964.721	968.041	969.690
55.0	891.547	893.909	890.300	890.567	893.530	890.678	890.166	891.792	892.305	891.503
57.5	819.487	819.666	817.103	818.685	817.794	816.680	816.524	818.774	816.435	816.346
60.0	746.581	745.377	744.887	746.536	743.216	743.996	746.113	743.461	742.614	743.862
62.5	676.392	673.340	674.409	672.894	671.178	672.337	670.354	669.953	670.688	670.443
65.0	606.605	603.508	604.778	600.522	601.124	599.386	598.272	599.742	598.227	597.536
67.5	537.330	535.347	533.453	531.270	529.933	528.484	528.752	527.972	527.504	527.348
70.0	468.390	468.680	464.424	463.778	461.260	461.683	459.388	458.318	459.232	458.474
72.5	401.410	400.408	397.444	396.731	396.998	394.503	393.054	392.052	390.826	390.358
75.0	336.636	334.988	333.450	332.715	331.489	330.509	329.840	327.233	325.629	324.693
77.5	276.007	275.227	272.464	270.414	270.348	269.367	268.052	265.312	264.532	262.794
80.0	218.564	217.829	216.091	214.397	213.194	211.679	211.523	209.651	207.022	204.371
82.5	167.093	166.848	165.667	163.862	162.480	161.121	159.361	157.846	156.642	155.239
85.0	122.662	122.818	122.039	119.966	118.518	117.716	116.825	115.243	112.390	109.405
87.5	89.930	89.195	89.239	87.457	85.964	87.546	88.214	89.306	88.994	88.549
90.0	82.711	82.666	82.733	81.820	80.995	79.814	78.098	76.650	74.333	71.926
92.5	103.856	105.260	104.948	103.834	103.901	105.327	106.085	105.394	103.299	102.364
95.0	140.020	140.711	140.176	140.555	141.201	142.025	141.825	140.065	136.967	135.096
97.5	184.094	184.695	184.785	183.359	184.851	185.876	184.695	182.957	181.955	181.153
100.0	232.580	232.691	234.072	234.830	234.897	235.565	235.944	233.203	231.800	229.772
102.5	285.499	286.480	288.173	289.332	290.089	290.334	289.354	287.460	287.215	287.148
105.0	342.541	343.143	345.728	348.379	348.089	347.666	345.794	344.703	345.616	347.577
107.5	404.775	405.109	405.867	407.337	408.964	406.134	405.154	404.931	405.287	407.181
110.0	469.170	468.880	467.365	468.947	467.320	468.813	467.588	466.808	468.345	470.039
112.5	533.052	531.047	530.668	530.089	529.264	529.665	533.164	532.406	532.629	534.679

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115.0	596.155	594.060	596.199	592.746	593.325	593.682	595.732	598.650	598.294	597.781
117.5	659.770	658.299	660.750	659.993	659.012	662.020	661.798	662.689	663.491	662.979
120.0	724.076	724.321	725.480	728.599	726.304	727.975	730.894	728.800	727.908	728.376
122.5	791.278	792.014	791.122	793.841	794.220	794.175	794.598	796.604	794.353	795.623
125.0	858.436	860.041	858.236	859.951	863.717	860.620	860.085	863.049	865.010	865.789
127.5	925.327	927.912	925.238	924.658	926.931	928.914	928.736	930.964	936.356	939.832
130.0	991.950	993.844	994.022	993.621	995.961	1000.751	1000.484	1002.066	1005.431	1010.088
132.5	1063.386	1065.392	1067.620	1065.614	1066.305	1069.692	1074.104	1074.260	1075.151	1076.822
135.0	1136.984	1137.741	1141.685	1139.412	1139.190	1138.878	1144.582	1146.052	1145.139	1146.498
137.5	1209.200	1209.868	1213.411	1213.611	1211.383	1211.249	1213.389	1217.578	1218.848	1219.761
140.0	1279.388	1280.301	1283.688	1287.766	1284.580	1283.577	1285.070	1289.058	1295.074	1297.303
142.5	1352.116	1352.384	1355.147	1360.383	1360.450	1359.247	1360.249	1363.569	1368.872	1376.092
145.0	1424.355	1425.134	1428.098	1433.200	1438.593	1436.988	1437.434	1439.417	1443.094	1448.464
147.5	1500.826	1500.960	1503.032	1506.976	1512.680	1514.418	1513.728	1514.396	1516.000	1518.986
150.0	1577.164	1576.162	1576.897	1579.304	1583.359	1588.974	1587.904	1587.236	1587.637	1589.442
152.5	1648.467	1646.885	1646.818	1648.311	1651.364	1655.976	1662.505	1659.831	1659.363	1659.964
155.0	1714.177	1713.040	1713.174	1714.578	1717.185	1720.950	1725.808	1730.821	1729.774	1730.041
157.5	1780.354	1781.023	1780.488	1781.112	1782.850	1785.724	1789.668	1794.681	1800.742	1800.898
160.0	1847.601	1847.757	1846.844	1846.888	1847.869	1849.740	1852.503	1856.091	1860.502	1865.716
162.5	1913.110	1912.152	1910.503	1909.612	1909.523	1910.214	1911.684	1913.957	1916.987	1920.820
165.0	1968.169	1966.944	1965.206	1964.025	1963.356	1963.245	1963.646	1964.582	1966.030	1967.991
167.5	2013.825	2012.510	2010.839	2009.547	2008.633	2008.143	2008.032	2008.321	2009.012	2010.104
170.0	2053.309	2050.947	2050.590	2049.387	2048.473	2047.805	2047.426	2047.315	2047.471	2047.894
172.5	2087.244	2085.484	2084.838	2083.746	2082.788	2081.985	2081.362	2080.871	2080.559	2080.403
175.0	2112.735	2111.576	2110.417	2109.838	2108.969	2108.145	2107.387	2106.696	2106.050	2105.493
177.5	2125.747	2125.190	2124.633	2124.076	2123.519	2123.029	2122.516	2122.004	2121.514	2121.024
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

Vert. Angles **Horizontal Angles**

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2237.826	2237.469	2237.135	2236.845	2236.578	2236.377	2236.199	2236.066	2235.954	2235.910
5.0	2213.561	2213.182	2212.892	2212.692	2212.580	2212.558	2212.625	2212.781	2213.048	2213.382
7.5	2183.636	2183.636	2183.814	2184.193	2184.772	2185.530	2186.488	2187.624	2188.226	2188.716
10.0	2148.586	2149.099	2149.879	2150.926	2152.218	2153.488	2154.781	2156.318	2158.101	2160.128
12.5	2108.590	2110.440	2112.712	2114.963	2116.612	2118.573	2120.823	2123.363	2126.193	2129.112
15.0	2062.890	2065.408	2068.237	2071.491	2075.279	2077.061	2077.262	2078.042	2077.574	2077.351
17.5	2015.919	2019.551	2020.799	2019.106	2018.148	2017.925	2018.326	2019.284	2020.911	2023.183
20.0	1956.404	1955.535	1955.557	1956.471	1958.254	1959.011	1959.657	1961.106	1963.334	1966.030
22.5	1889.580	1888.399	1888.243	1889.112	1891.207	1894.326	1898.360	1902.905	1905.757	1909.166
25.0	1817.810	1819.192	1821.709	1823.826	1826.077	1829.374	1833.742	1839.245	1845.663	1848.827
27.5	1745.728	1747.065	1749.872	1754.173	1759.610	1763.888	1769.258	1769.547	1771.040	1773.558
30.0	1673.690	1676.030	1680.575	1685.076	1688.463	1689.310	1691.382	1693.878	1695.549	1698.445
32.5	1599.112	1604.126	1609.674	1609.652	1609.652	1610.521	1612.727	1616.269	1620.949	1624.558
35.0	1524.913	1527.565	1527.498	1528.434	1530.372	1533.715	1536.277	1540.132	1545.101	1551.139
37.5	1443.227	1444.141	1444.119	1448.219	1451.405	1455.438	1460.652	1465.799	1469.632	1472.706
40.0	1360.182	1361.720	1364.862	1369.207	1373.953	1378.899	1382.643	1385.851	1389.216	1392.692
42.5	1278.987	1281.794	1285.872	1289.370	1296.055	1299.107	1301.826	1305.525	1309.714	1314.125
45.0	1200.131	1203.740	1208.910	1211.383	1214.592	1218.447	1223.393	1227.359	1232.039	1236.918
47.5	1126.199	1128.360	1128.271	1131.034	1135.112	1139.836	1145.250	1151.489	1156.413	1158.241
50.0	1048.992	1049.126	1049.705	1050.864	1057.615	1063.587	1068.957	1071.073	1073.547	1075.597
52.5	969.512	970.760	972.431	975.729	979.249	984.263	986.380	986.714	991.192	993.889
55.0	892.550	895.023	898.455	898.767	900.237	903.045	906.098	908.014	910.353	912.582
57.5	818.150	821.136	821.381	822.028	822.295	824.768	827.643	830.383	831.676	833.993
60.0	744.754	744.263	745.021	746.603	747.984	749.522	751.238	752.641	753.711	755.226

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CANDELA TABULATION - (Cont.)

62.5	669.931	670.087	671.245	673.295	674.298	674.008	674.632	676.125	677.217	678.264
65.0	597.915	598.606	598.985	599.074	599.609	600.099	599.720	601.458	602.037	602.706
67.5	528.328	527.214	526.524	526.590	526.947	527.816	527.170	527.727	528.373	528.284
70.0	457.338	456.179	456.447	456.402	456.335	456.424	456.001	455.154	455.979	455.065
72.5	389.333	388.999	388.732	387.996	387.217	386.548	385.389	384.075	384.431	382.983
75.0	324.537	323.579	323.334	321.774	319.925	318.365	316.939	314.711	315.424	315.246
77.5	262.593	260.766	259.652	257.290	256.555	255.886	255.374	254.349	253.435	252.544
80.0	203.680	203.680	203.167	202.165	200.360	198.488	196.661	194.767	192.472	190.422
82.5	154.258	152.877	150.582	148.019	145.078	142.070	138.750	135.809	134.606	134.561
85.0	107.043	107.956	108.291	108.201	108.090	107.912	107.221	106.708	105.839	104.748
87.5	88.526	87.635	86.655	85.340	83.936	82.533	80.839	78.967	77.252	75.135
90.0	70.411	67.581	65.175	62.612	59.916	57.220	54.524	51.226	48.686	45.500
92.5	101.606	100.180	98.598	96.682	94.498	93.050	91.111	88.705	85.986	83.959
95.0	133.647	133.001	132.110	130.751	129.258	128.924	127.720	126.049	123.331	122.440
97.5	180.172	179.415	177.498	174.758	171.950	170.101	167.494	164.129	160.943	161.099
100.0	229.059	229.683	228.970	227.455	225.873	224.759	223.488	221.037	217.784	216.291
102.5	286.769	285.210	283.249	281.355	280.464	280.464	280.263	278.592	276.586	275.606
105.0	346.641	344.569	342.653	341.293	340.224	340.068	339.154	337.483	335.857	335.478
107.5	407.048	405.287	403.683	403.171	403.393	403.705	402.457	400.608	399.182	398.959
110.0	469.905	467.254	466.563	467.231	468.234	468.390	467.209	465.204	464.691	465.961
112.5	535.370	533.008	531.894	532.673	534.077	534.211	532.317	530.980	531.894	534.233
115.0	597.871	598.294	599.274	600.255	600.968	600.745	599.319	598.740	600.812	603.842
117.5	662.020	663.469	665.764	669.062	669.775	669.062	668.349	668.727	671.045	674.209
120.0	730.582	731.407	732.989	735.105	736.866	738.693	739.138	740.119	742.414	745.066
122.5	798.386	801.038	802.085	803.311	803.979	806.163	808.681	811.711	815.120	817.259
125.0	867.616	869.622	872.318	872.541	874.145	876.685	879.426	883.258	886.846	888.784
127.5	939.298	939.610	939.832	942.662	946.294	949.815	953.202	956.121	959.998	962.404
130.0	1011.692	1009.976	1010.934	1012.316	1017.552	1023.056	1030.141	1032.370	1034.509	1036.447
132.5	1080.098	1083.930	1084.376	1086.247	1089.879	1095.472	1100.998	1106.145	1109.777	1112.228
135.0	1149.350	1153.717	1158.931	1161.204	1164.702	1169.404	1174.551	1177.804	1181.637	1186.294
137.5	1222.123	1225.621	1230.457	1234.111	1242.311	1246.500	1249.017	1251.981	1255.078	1259.267
140.0	1298.907	1301.714	1305.614	1311.006	1316.777	1322.370	1325.645	1327.049	1330.013	1334.179
142.5	1378.743	1380.147	1380.971	1385.294	1388.971	1392.736	1396.925	1402.251	1407.220	1411.520
145.0	1455.015	1457.934	1458.201	1459.582	1461.655	1464.618	1468.740	1473.954	1480.282	1487.769
147.5	1523.287	1528.679	1536.099	1535.341	1536.790	1539.352	1543.051	1547.775	1553.702	1559.094
150.0	1592.584	1595.592	1602.276	1608.894	1614.219	1616.091	1619.188	1622.843	1626.007	1630.530
152.5	1661.903	1665.178	1669.702	1675.317	1682.046	1687.639	1694.368	1695.861	1698.401	1701.275
155.0	1731.512	1734.141	1737.907	1741.739	1745.795	1750.652	1756.178	1761.949	1768.522	1771.954
157.5	1800.920	1801.834	1803.616	1806.223	1809.120	1812.618	1816.963	1821.776	1825.119	1828.929
160.0	1868.635	1868.346	1868.903	1870.284	1872.490	1873.827	1875.097	1877.102	1879.821	1882.339
162.5	1925.410	1929.376	1931.203	1930.245	1929.955	1930.356	1930.958	1931.604	1932.874	1934.768
165.0	1970.486	1973.472	1976.413	1979.577	1983.187	1984.747	1984.725	1985.237	1985.371	1985.861
167.5	2011.574	2013.424	2015.674	2018.058	2020.287	2022.849	2025.746	2028.932	2032.453	2036.263
170.0	2048.607	2049.587	2050.835	2052.350	2054.133	2055.715	2057.007	2058.500	2060.216	2062.132
172.5	2080.426	2080.582	2080.916	2081.406	2082.052	2082.877	2083.835	2084.971	2085.328	2085.551
175.0	2104.981	2104.557	2104.178	2103.889	2103.666	2103.510	2103.421	2103.398	2103.465	2103.599
177.5	2120.556	2120.088	2119.642	2119.219	2118.795	2118.417	2118.038	2117.659	2117.325	2117.013
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

**Vert.
Angles**

Horizontal Angles

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2235.887	2235.910	2235.976	2236.088	2236.221	2236.400	2236.623	2236.890	2237.180	2237.514
5.0	2213.806	2214.341	2214.942	2215.165	2215.455	2215.833	2216.279	2216.814	2217.415	2218.084
7.5	2189.362	2190.120	2190.989	2191.992	2193.128	2194.376	2195.735	2196.671	2197.607	2198.632

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CANDELA TABULATION - (Cont.)

10.0	2162.423	2164.941	2167.482	2168.885	2170.334	2171.916	2173.676	2175.548	2177.598	2179.135
12.5	2129.379	2129.602	2130.248	2131.340	2132.878	2133.724	2133.903	2134.482	2135.507	2136.933
15.0	2077.707	2078.599	2079.289	2081.183	2082.899	2085.105	2087.823	2088.871	2090.074	2091.790
17.5	2025.010	2026.904	2028.642	2030.982	2033.656	2036.062	2039.026	2042.569	2044.685	2046.691
20.0	1969.305	1973.294	1977.438	1980.134	1983.521	1987.621	1990.852	1994.662	1999.074	2001.637
22.5	1913.400	1917.945	1923.048	1927.504	1928.596	1930.067	1932.562	1934.078	1936.484	1939.136
25.0	1850.342	1851.478	1853.394	1855.689	1858.987	1861.305	1863.800	1866.920	1869.126	1872.379
27.5	1777.101	1779.530	1781.847	1785.100	1788.376	1792.698	1795.684	1799.316	1802.458	1805.488
30.0	1702.144	1706.779	1710.946	1714.555	1718.945	1723.201	1728.170	1731.802	1735.946	1739.155
32.5	1628.903	1633.872	1639.510	1644.657	1649.603	1652.767	1656.221	1659.474	1662.883	1665.557
35.0	1556.620	1560.141	1563.483	1567.717	1571.148	1575.115	1578.524	1582.223	1586.055	1589.821
37.5	1476.740	1480.282	1484.315	1488.594	1492.671	1497.506	1501.784	1505.862	1509.761	1514.218
40.0	1396.881	1401.761	1405.905	1410.785	1415.977	1420.923	1425.647	1429.569	1433.936	1438.147
42.5	1318.961	1323.774	1329.010	1333.778	1339.170	1344.139	1346.679	1349.420	1352.495	1354.991
45.0	1242.066	1247.324	1249.552	1252.115	1255.100	1258.465	1261.495	1264.526	1267.155	1269.606
47.5	1160.112	1162.586	1165.415	1167.488	1170.897	1173.816	1177.136	1179.854	1182.327	1184.756
50.0	1077.223	1079.407	1082.549	1085.490	1087.985	1090.370	1093.355	1095.606	1098.012	1100.397
52.5	996.384	997.899	1000.373	1003.381	1006.411	1008.038	1010.310	1012.672	1015.079	1017.530
55.0	916.615	918.018	919.578	922.341	925.215	926.775	928.758	931.031	933.170	934.975
57.5	836.578	838.739	839.162	842.193	844.421	846.137	847.852	849.880	851.640	852.688
60.0	757.722	760.173	761.042	762.824	764.741	766.100	767.526	769.108	770.244	770.757
62.5	680.024	682.030	683.255	684.392	686.107	686.887	688.157	689.383	690.519	690.987
65.0	603.753	605.157	606.650	607.140	608.967	609.034	609.858	610.794	611.708	612.020
67.5	528.707	529.420	531.025	530.690	531.849	531.693	531.960	532.518	533.097	533.208
70.0	454.731	454.575	455.511	454.998	455.288	454.865	454.419	454.553	454.686	454.575
72.5	381.668	380.621	380.532	381.111	381.535	381.780	381.446	381.713	381.869	381.958
75.0	314.555	314.109	314.243	314.109	313.508	313.263	312.305	311.658	311.057	310.656
77.5	250.940	249.581	248.511	247.464	245.949	244.924	243.453	241.782	240.378	239.420
80.0	187.904	185.520	183.359	181.108	178.724	176.741	174.847	172.084	169.833	168.207
82.5	134.338	133.982	133.714	133.180	132.422	131.887	131.486	130.038	128.745	128.032
85.0	103.522	102.208	101.116	99.935	98.330	97.016	95.946	94.186	92.247	91.089
87.5	72.862	70.567	68.606	66.801	64.306	62.256	60.407	58.312	55.750	54.145
90.0	42.158	38.927	36.075	33.624	30.237	27.451	24.844	22.438	19.229	17.179
92.5	81.686	79.458	77.229	74.979	72.305	69.921	67.537	65.509	62.635	60.251
95.0	121.214	119.966	118.317	116.267	114.351	112.390	110.207	108.580	106.040	103.299
97.5	160.898	160.564	159.450	157.645	156.420	154.793	152.899	151.584	149.334	146.304
100.0	214.932	213.573	211.345	208.404	206.108	203.502	200.761	198.644	195.614	191.514
102.5	275.071	274.537	273.088	270.882	268.921	267.027	265.312	263.841	261.346	258.070
105.0	335.745	335.968	335.166	333.517	331.957	330.776	330.019	329.127	327.167	324.716
107.5	399.227	399.004	397.667	396.374	395.238	394.859	394.948	394.570	393.099	391.450
110.0	467.410	467.565	466.295	464.914	463.800	463.510	463.354	462.530	460.903	459.477
112.5	536.194	536.573	535.459	535.125	535.058	535.904	535.904	535.214	533.988	533.030
115.0	605.758	605.848	605.380	606.093	606.984	608.900	608.655	608.165	607.229	606.672
117.5	675.813	676.036	676.437	677.796	679.690	682.230	681.606	681.384	680.693	680.425
120.0	746.937	747.628	748.497	750.168	752.753	755.137	755.427	755.694	755.070	754.892
122.5	819.042	820.245	820.713	823.409	826.506	828.890	830.160	831.007	831.096	831.653
125.0	892.372	893.575	894.912	897.564	901.062	903.736	905.540	906.677	907.434	908.749
127.5	964.833	966.727	969.267	972.476	976.152	979.784	981.589	982.837	984.151	986.112
130.0	1038.898	1041.594	1044.803	1048.524	1052.000	1055.320	1057.972	1059.286	1061.091	1063.408
132.5	1115.392	1118.111	1121.631	1124.751	1128.539	1131.569	1134.443	1136.070	1138.187	1140.727
135.0	1191.285	1196.298	1200.042	1202.961	1205.746	1208.977	1211.294	1213.322	1215.773	1218.447
137.5	1264.214	1269.784	1275.578	1279.187	1283.198	1287.432	1288.858	1290.952	1293.893	1296.634
140.0	1339.282	1345.276	1349.710	1354.211	1358.311	1361.608	1364.171	1367.023	1370.566	1374.198
142.5	1416.890	1421.725	1426.627	1430.259	1433.468	1436.119	1438.749	1441.980	1445.344	1449.422
145.0	1495.323	1500.782	1504.258	1507.756	1509.561	1511.566	1514.084	1517.092	1520.724	1524.312
147.5	1565.444	1571.393	1577.209	1581.911	1585.721	1587.615	1590.422	1593.364	1596.684	1599.469

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150.0	1634.808	1639.688	1643.765	1646.796	1650.517	1654.528	1659.363	1663.418	1667.919	1671.685
152.5	1705.130	1707.692	1709.943	1712.884	1715.825	1719.814	1723.089	1727.056	1730.487	1733.718
155.0	1773.892	1775.318	1777.212	1779.129	1782.025	1784.499	1787.351	1790.693	1792.877	1796.063
157.5	1833.519	1837.730	1842.343	1846.309	1847.601	1849.428	1852.213	1853.484	1855.623	1857.739
160.0	1885.191	1888.711	1892.544	1895.686	1899.429	1903.796	1906.537	1909.812	1913.690	1915.294
162.5	1936.283	1938.846	1941.119	1943.971	1946.778	1948.672	1951.123	1954.087	1955.446	1956.582
165.0	1986.864	1988.379	1989.582	1990.964	1992.167	1993.882	1996.044	1996.423	1996.913	1997.849
167.5	2036.174	2035.995	2036.263	2036.909	2037.979	2038.335	2037.956	2037.956	2038.357	2039.137
170.0	2064.227	2066.544	2068.839	2069.820	2070.844	2072.003	2073.295	2074.722	2076.281	2076.125
172.5	2085.863	2086.286	2086.798	2087.445	2088.180	2089.027	2089.962	2089.740	2089.294	2088.915
175.0	2103.777	2104.045	2104.379	2103.889	2103.443	2103.042	2102.685	2102.374	2102.106	2101.883
177.5	2116.701	2116.433	2116.166	2115.921	2115.720	2115.520	2115.364	2115.208	2115.097	2115.007
180.0	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931	2127.931

Vert. Horizontal Angles

	350.0	352.5	355.0	357.5	360.0
0.0	2256.921	2256.921	2256.921	2256.921	2256.921
2.5	2237.893	2238.316	2238.762	2239.230	2239.742
5.0	2218.842	2219.666	2220.580	2221.538	2222.585
7.5	2199.768	2201.016	2202.375	2203.846	2205.405
10.0	2180.672	2181.787	2183.926	2186.065	2188.226
12.5	2138.069	2139.206	2140.743	2142.682	2145.021
15.0	2093.995	2095.377	2097.070	2099.209	2101.816
17.5	2049.253	2051.727	2053.487	2055.782	2058.612
20.0	2004.556	2008.098	2008.856	2012.131	2015.407
22.5	1940.807	1943.458	1945.464	1947.424	1950.388
25.0	1874.741	1877.570	1880.378	1882.339	1885.391
27.5	1808.786	1811.772	1815.359	1817.275	1820.373
30.0	1742.876	1746.084	1747.978	1751.677	1755.354
32.5	1668.387	1671.239	1675.049	1676.854	1679.595
35.0	1592.495	1595.703	1599.402	1601.385	1603.836
37.5	1516.892	1520.323	1523.866	1526.005	1528.055
40.0	1441.512	1445.121	1448.464	1449.867	1452.296
42.5	1357.731	1360.650	1363.101	1365.040	1366.399
45.0	1272.302	1275.065	1277.405	1279.299	1280.502
47.5	1187.051	1189.636	1191.864	1193.602	1194.583
50.0	1101.889	1104.340	1106.457	1106.992	1108.685
52.5	1018.889	1021.139	1023.301	1024.771	1025.173
55.0	936.446	938.340	940.278	941.682	941.637
57.5	854.114	855.718	857.322	858.615	858.102
60.0	771.893	773.252	771.269	774.790	774.589
62.5	691.901	693.238	694.240	695.265	694.485
65.0	612.421	613.535	614.226	614.983	614.404
67.5	533.052	533.877	534.256	534.701	534.300
70.0	453.795	454.285	452.079	453.840	454.196
72.5	381.223	381.579	381.646	381.757	381.691
75.0	309.586	309.363	309.185	309.118	309.185
77.5	238.039	237.192	236.746	236.523	236.679
80.0	166.536	162.592	163.216	163.639	164.174
82.5	127.030	125.916	125.403	124.935	124.957
85.0	89.574	87.992	87.033	86.075	85.741
87.5	52.095	50.068	48.642	47.216	46.503
90.0	14.617	12.144	10.250	8.356	7.286
92.5	57.844	55.839	53.945	52.184	50.402
95.0	101.071	99.534	97.640	95.991	93.540

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CANDELA TABULATION - (Cont.)

97.5	144.276	143.206	141.335	139.820	136.656
100.0	188.929	187.659	185.386	183.715	179.771
102.5	256.265	255.173	253.279	252.121	247.932
105.0	323.624	322.710	321.217	320.504	316.092
107.5	391.005	390.292	389.177	388.709	384.231
110.0	459.121	458.296	457.338	457.048	452.391
112.5	532.941	532.629	531.804	531.403	526.323
115.0	606.895	606.962	606.271	605.714	600.255
117.5	681.005	681.317	680.737	680.002	674.186
120.0	755.694	755.984	755.338	754.290	748.118
122.5	832.923	833.503	833.391	832.322	826.684
125.0	910.309	911.200	911.467	910.353	905.251
127.5	987.872	989.076	989.588	988.407	983.817
130.0	1065.637	1067.130	1067.709	1066.461	1062.383
132.5	1143.445	1145.317	1145.986	1144.738	1140.772
135.0	1221.343	1223.705	1224.351	1222.992	1219.137
137.5	1299.486	1302.316	1302.806	1301.246	1297.525
140.0	1377.206	1380.281	1381.172	1379.434	1375.891
142.5	1451.984	1454.524	1455.304	1453.187	1450.135
145.0	1527.052	1528.768	1529.436	1526.963	1524.378
147.5	1602.477	1602.989	1603.569	1600.761	1598.622
150.0	1675.918	1676.074	1677.233	1674.470	1672.866
152.5	1736.325	1736.882	1737.595	1735.099	1733.696
155.0	1797.021	1797.957	1797.979	1795.751	1794.525
157.5	1858.096	1859.344	1858.363	1856.403	1855.355
160.0	1917.188	1919.661	1918.168	1916.898	1916.185
162.5	1958.209	1958.967	1957.429	1956.382	1955.825
165.0	1999.252	1997.982	1996.712	1995.866	1995.464
167.5	2038.424	2037.043	2036.040	2035.394	2035.104
170.0	2075.657	2075.301	2075.011	2074.833	2074.744
172.5	2088.626	2088.380	2088.224	2088.135	2088.135
175.0	2101.705	2101.594	2101.505	2101.482	2101.527
177.5	2114.941	2114.874	2114.874	2114.874	2114.896
180.0	2127.931	2127.931	2127.931	2127.931	2127.931

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	807.04	N.A.	7.50
0-30	1679.17	N.A.	15.60
0-40	2682.49	N.A.	25.00
0-60	4523.78	N.A.	42.10
0-80	5491.7	N.A.	51.20
0-90	5611.54	N.A.	52.30
10-90	5399.98	N.A.	50.30
20-40	1875.45	N.A.	17.50
20-50	2864.58	N.A.	26.70
40-70	2459.83	N.A.	22.90
60-80	967.92	N.A.	9.00
70-80	349.38	N.A.	3.30
80-90	119.84	N.A.	1.10
90-110	423.57	N.A.	3.90
90-120	985.19	N.A.	9.20
90-130	1754.02	N.A.	16.30
90-150	3562.86	N.A.	33.20
90-180	5123.55	N.A.	47.70
110-180	4699.98	N.A.	43.80
0-180	10735.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	211.56
10-20	595.48
20-30	872.13
30-40	1003.32
40-50	989.13
50-60	852.16
60-70	618.54
70-80	349.38
80-90	119.84
90-100	108.87
100-110	314.70
110-120	561.61
120-130	768.83
130-140	894.17
140-150	914.68
150-160	804.76
160-170	556.64
170-180	199.28

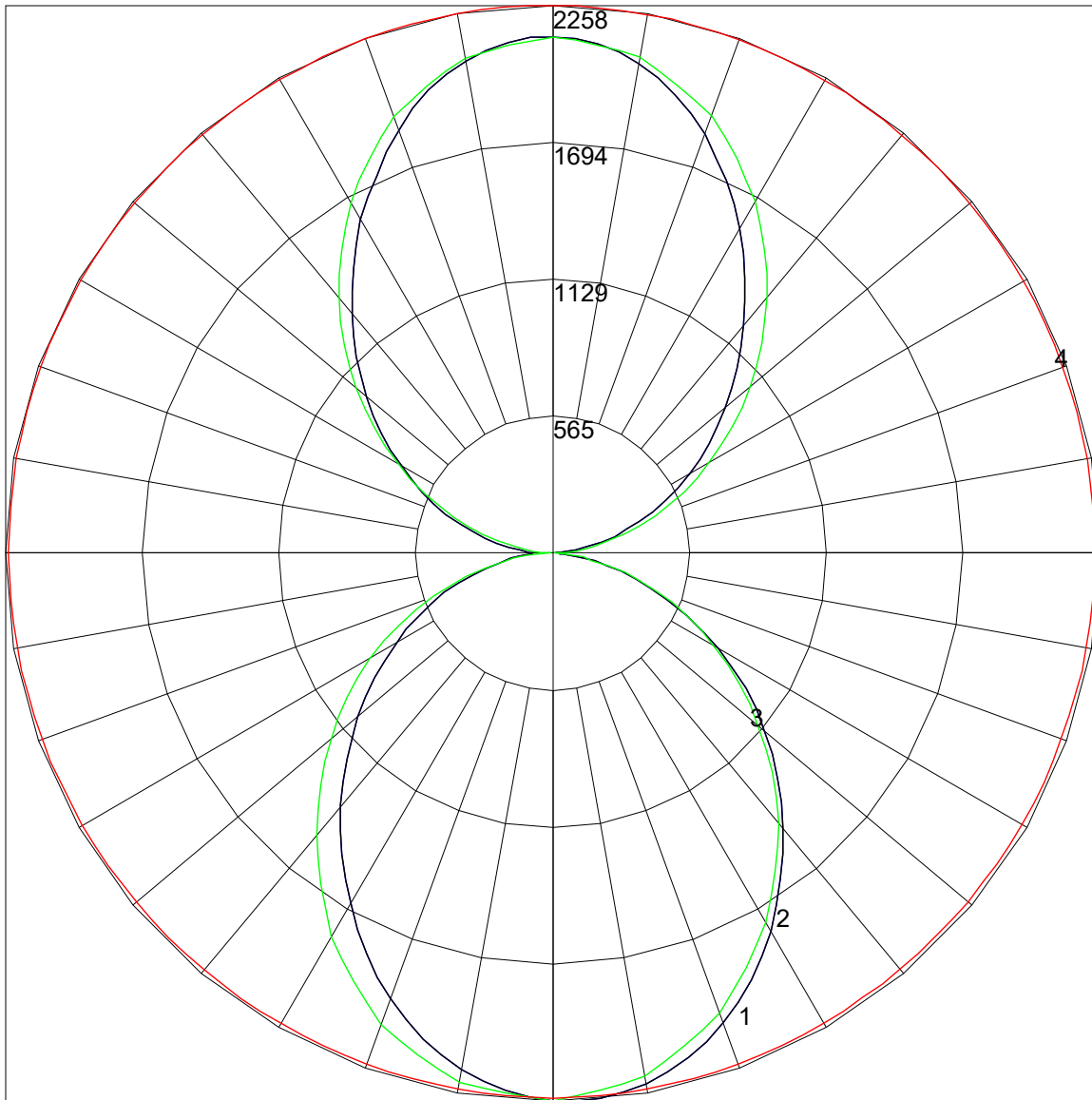
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	98	94	90	87	91	87	84	81	74	72	69	62	61	59	51	50	49	44
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	41	37
3	82	72	65	59	75	67	61	55	57	53	49	49	45	42	40	38	35	31
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	36	33	31	27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	23
6	63	51	43	37	58	48	41	35	41	36	31	35	31	27	30	26	24	21
7	59	46	38	33	54	43	36	31	37	32	28	32	28	24	27	24	21	18
8	54	42	34	29	50	39	32	27	34	29	25	29	25	22	25	21	19	16
9	51	38	31	26	47	36	29	25	31	26	22	27	23	19	23	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	14

POLAR GRAPH



Maximum Candela = 2258.303 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)