



IES INDOOR REPORT
PHOTOMETRIC FILENAME : NLSDI48HTB40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 8,388P5
[TESTLAB] CSA Group
[ISSUEDATE] 10/29/2015 10:39:40 AM
[LUMINAIRE] NLSDI48HTB40/NLWDI48HTB40
[AMBIENT] 24.8 deg C
[POWERFACTOR] 0.9982
[ATHD] 5.33%
[CURRENT] 0.8351
[VOLTAGE] 120.06
[STABILIZATION] 49:34.5 Stable
[POWER VARIATION] 0.26 %
[LIGHT VARIATION] 0.45 %
[Lumens] 9,256
[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	9256
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	100.26
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)	0.16 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	27400	27739	28087
55	24840	25549	25660
65	21997	23191	21986
75	18075	20251	17285
85	14885	16893	6688

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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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1931.152	1931.229	1931.306	1931.421	1931.575	1931.747	1931.959	1932.189	1932.439	1932.708
5.0	1916.359	1916.474	1916.647	1916.877	1917.166	1917.511	1917.896	1918.357	1918.856	1919.413
7.5	1901.546	1901.719	1901.969	1902.295	1902.718	1903.218	1903.813	1904.466	1905.196	1905.312
10.0	1886.734	1886.887	1887.060	1887.214	1888.251	1888.905	1889.654	1889.539	1889.692	1889.942
12.5	1849.482	1849.827	1850.538	1851.576	1852.959	1854.304	1855.322	1856.686	1858.396	1860.432
15.0	1812.230	1812.633	1813.440	1814.631	1816.226	1816.898	1818.108	1819.722	1821.874	1822.642
17.5	1774.978	1775.419	1776.303	1777.667	1778.589	1779.492	1780.876	1782.316	1783.104	1784.372
20.0	1737.725	1737.918	1738.110	1740.665	1741.049	1742.067	1743.720	1743.816	1744.719	1746.236
22.5	1681.665	1682.222	1683.663	1685.373	1686.967	1689.426	1691.405	1693.788	1697.073	1698.610
25.0	1625.623	1626.123	1627.583	1629.005	1630.791	1633.058	1634.807	1637.477	1638.899	1640.762
27.5	1569.563	1569.985	1571.446	1572.656	1574.616	1576.325	1578.304	1579.995	1580.994	1582.665
30.0	1513.502	1513.310	1513.118	1516.326	1518.478	1519.708	1521.936	1522.128	1523.223	1523.320
32.5	1448.181	1448.585	1450.103	1451.774	1454.137	1456.154	1458.229	1459.516	1461.034	1462.494
35.0	1382.861	1383.245	1384.647	1386.472	1388.355	1390.334	1391.237	1392.659	1393.331	1394.887
37.5	1317.521	1317.886	1319.211	1321.190	1322.516	1324.629	1324.379	1325.205	1326.166	1326.531
40.0	1252.200	1251.816	1253.794	1255.908	1256.619	1257.464	1257.637	1258.098	1259.001	1258.271
42.5	1178.137	1178.560	1180.155	1182.960	1184.151	1185.323	1186.917	1188.032	1188.973	1189.453
45.0	1104.075	1104.517	1106.150	1108.648	1110.492	1111.357	1112.509	1114.354	1114.603	1115.218
47.5	1029.994	1030.455	1032.184	1034.643	1036.987	1037.563	1038.774	1040.445	1040.945	1041.713
50.0	955.932	955.605	958.218	960.754	963.347	963.962	965.288	966.690	967.824	968.957
52.5	883.925	884.424	886.288	888.632	890.707	891.456	892.743	893.858	895.106	896.701
55.0	811.899	812.475	814.454	816.683	818.412	819.353	820.794	821.716	823.023	824.656
57.5	739.873	740.527	742.621	744.734	746.233	747.328	748.884	749.825	751.343	753.168
60.0	667.867	667.905	668.078	672.766	674.168	675.436	676.896	678.491	680.009	682.199
62.5	598.800	599.203	601.278	602.911	604.121	605.312	606.600	607.829	609.674	612.094
65.0	529.752	529.809	531.865	533.248	534.478	535.842	537.283	538.762	540.683	543.354
67.5	460.685	460.416	462.414	463.547	464.911	466.429	468.158	469.810	471.981	474.729
70.0	391.617	390.542	391.022	393.846	395.402	397.093	399.206	400.935	403.548	406.315
72.5	329.102	328.698	330.408	331.349	332.809	334.193	335.960	337.228	339.476	341.359
75.0	266.586	266.432	268.046	269.371	271.120	272.657	274.636	276.307	278.862	280.841
77.5	204.070	204.166	205.664	207.432	209.449	211.178	213.349	215.520	218.268	220.515
80.0	141.554	141.669	142.342	143.418	147.798	149.719	152.101	154.849	157.711	160.343
82.5	107.741	108.144	109.163	110.642	111.756	112.659	114.273	116.540	118.288	119.633
85.0	73.928	74.485	75.484	76.694	77.309	78.097	80.076	83.246	85.493	87.222
87.5	40.095	40.845	41.805	42.727	42.843	43.534	45.859	49.970	52.699	54.831
90.0	6.282	7.185	8.107	8.761	8.376	8.953	11.642	16.657	19.884	22.420
92.5	43.458	43.861	44.437	44.514	43.803	43.458	44.860	48.337	50.220	51.258
95.0	80.652	80.556	80.767	80.287	79.230	77.982	78.078	80.018	80.575	80.152
97.5	117.827	117.232	117.097	116.060	114.676	112.544	111.391	111.775	111.007	109.163
100.0	155.002	154.003	153.773	152.620	151.506	149.335	147.952	148.105	147.606	146.223
102.5	213.772	212.312	211.985	210.794	209.392	206.932	205.050	204.608	203.647	201.784
105.0	272.541	270.620	270.198	268.987	267.316	264.626	262.282	261.226	259.862	257.595
107.5	331.292	328.929	328.429	327.180	325.317	322.416	319.630	318.016	316.268	313.655
110.0	390.061	387.314	386.834	385.796	384.029	381.339	378.669	377.036	375.633	373.500
112.5	453.807	451.636	451.136	449.983	448.005	445.219	442.395	440.262	438.591	436.401
115.0	517.552	515.938	515.439	514.228	512.096	509.214	506.255	503.777	501.760	499.819
117.5	581.297	580.222	579.761	578.512	576.283	573.344	570.308	567.638	565.179	563.507
120.0	645.043	644.524	644.198	643.103	641.008	638.242	635.322	633.189	630.058	627.694
122.5	712.784	711.978	711.555	710.345	708.174	705.349	702.237	698.856	696.032	692.919
125.0	780.526	779.469	778.931	777.702	775.492	772.668	769.345	765.502	762.390	759.181
127.5	848.267	846.980	846.327	845.155	842.965	840.122	836.625	832.687	829.152	826.558
130.0	916.009	914.491	913.761	912.705	910.591	907.440	903.944	900.140	896.221	893.166
132.5	983.597	982.252	981.407	980.388	978.102	974.682	971.243	967.785	963.770	960.216

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135.0	1051.165	1049.993	1049.129	1048.207	1045.594	1042.270	1038.927	1035.527	1031.704	1028.245
137.5	1118.753	1117.735	1116.909	1116.486	1113.297	1110.204	1107.591	1103.364	1100.060	1097.274
140.0	1186.322	1185.438	1184.631	1183.613	1180.635	1177.600	1173.834	1169.780	1166.034	1161.788
142.5	1250.336	1249.510	1248.991	1247.992	1245.495	1243.554	1239.020	1235.351	1231.220	1226.974
145.0	1314.351	1313.582	1313.390	1312.372	1310.604	1308.049	1304.629	1301.690	1297.213	1293.429
147.5	1378.365	1377.654	1377.827	1376.809	1375.963	1373.235	1370.680	1367.606	1364.263	1360.306
150.0	1442.379	1441.611	1441.841	1440.285	1439.690	1435.924	1433.062	1428.585	1424.935	1419.613
152.5	1494.828	1494.079	1494.271	1493.061	1492.311	1489.929	1487.124	1484.108	1480.496	1477.364
155.0	1547.277	1546.566	1546.720	1545.990	1545.087	1544.184	1541.456	1539.611	1536.576	1533.925
157.5	1599.726	1599.034	1599.168	1599.053	1598.054	1597.843	1596.075	1594.250	1593.424	1590.619
160.0	1652.174	1651.406	1651.099	1651.348	1649.158	1647.698	1647.083	1643.145	1640.301	1638.150
162.5	1686.353	1685.603	1685.296	1685.392	1684.451	1683.163	1682.337	1681.281	1678.706	1676.593
165.0	1720.531	1719.839	1719.512	1719.551	1720.070	1718.648	1717.956	1717.630	1718.052	1715.536
167.5	1754.709	1754.075	1753.767	1753.767	1754.075	1754.171	1753.575	1753.326	1753.383	1753.787
170.0	1788.887	1788.253	1787.715	1787.273	1786.908	1786.639	1786.562	1784.949	1783.757	1782.662
172.5	1800.433	1799.953	1799.550	1799.223	1798.954	1798.743	1798.608	1798.551	1798.647	1797.532
175.0	1811.980	1811.653	1811.384	1811.173	1810.981	1810.866	1810.769	1810.731	1810.731	1810.789
177.5	1823.507	1823.353	1823.219	1823.104	1823.027	1822.950	1822.911	1822.892	1822.892	1822.931
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

Vert. Angles **Horizontal Angles**

	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5
0.0	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1933.015	1933.342	1933.707	1934.091	1934.476	1934.898	1935.359	1935.820	1936.301	1936.800
5.0	1920.009	1920.662	1921.373	1921.757	1922.180	1922.679	1923.217	1923.813	1924.466	1925.158
7.5	1905.600	1905.984	1906.445	1907.002	1907.636	1908.366	1909.173	1910.153	1910.230	1910.672
10.0	1890.326	1890.826	1891.441	1891.287	1891.229	1891.306	1891.498	1891.806	1892.248	1892.805
12.5	1862.238	1863.833	1865.773	1868.060	1870.672	1873.554	1872.075	1871.191	1870.519	1870.077
15.0	1824.141	1826.043	1828.368	1829.578	1831.038	1832.902	1835.188	1838.396	1840.029	1842.757
17.5	1786.120	1786.927	1787.677	1788.887	1790.597	1791.692	1793.190	1795.246	1797.840	1799.838
20.0	1745.910	1746.256	1747.139	1747.312	1747.754	1748.811	1749.791	1749.771	1750.386	1751.693
22.5	1701.184	1704.220	1704.642	1704.431	1704.297	1702.760	1701.972	1701.876	1701.492	1701.780
25.0	1642.953	1644.624	1647.275	1649.043	1650.810	1653.404	1653.519	1652.232	1651.694	1650.657
27.5	1583.453	1585.297	1586.124	1587.411	1588.928	1590.369	1592.905	1595.249	1598.169	1598.054
30.0	1524.203	1524.626	1525.433	1525.875	1526.297	1527.527	1528.660	1530.793	1532.522	1534.847
32.5	1464.377	1464.742	1464.531	1463.801	1463.801	1464.108	1464.992	1465.107	1466.337	1466.875
35.0	1395.886	1397.539	1398.249	1399.863	1401.535	1401.112	1400.094	1399.633	1398.614	1398.979
37.5	1327.453	1327.434	1328.318	1329.509	1331.180	1332.371	1333.870	1333.447	1331.737	1330.354
40.0	1258.098	1258.290	1258.578	1259.616	1259.865	1260.384	1260.691	1261.422	1262.593	1263.055
42.5	1189.453	1189.338	1189.588	1189.319	1189.357	1188.512	1188.320	1188.589	1189.377	1191.240
45.0	1116.429	1117.351	1118.619	1119.983	1118.696	1117.754	1117.332	1117.120	1117.716	1117.793
47.5	1042.885	1044.230	1045.133	1045.632	1046.017	1046.708	1047.611	1047.131	1046.766	1046.823
50.0	970.091	971.397	973.049	972.377	973.030	974.183	974.606	975.931	978.083	978.064
52.5	898.103	899.544	900.294	900.505	902.003	902.157	902.676	904.098	905.846	907.709
55.0	826.443	828.172	828.556	830.074	831.687	831.399	832.187	833.493	835.069	836.222
57.5	755.051	756.645	757.203	759.258	760.161	761.103	762.928	764.522	765.521	765.848
60.0	684.178	685.542	686.752	688.789	689.557	691.075	692.958	695.071	697.031	697.280
62.5	613.881	615.245	616.897	618.646	620.144	622.161	624.198	626.369	627.137	628.386
65.0	545.275	546.505	548.310	549.924	551.845	554.074	556.456	558.743	558.493	560.568
67.5	476.534	478.417	480.780	482.548	484.757	487.139	489.810	491.136	491.731	493.864
70.0	408.332	410.772	413.385	415.709	418.284	421.108	423.894	424.720	426.449	428.178
72.5	342.800	344.721	346.469	349.351	352.367	355.595	358.342	359.764	362.223	363.933
75.0	282.801	285.221	287.277	289.256	291.427	293.386	294.674	296.019	298.670	301.129
77.5	222.994	225.991	228.219	230.832	233.253	235.097	235.347	235.693	236.999	239.420
80.0	163.360	166.952	169.373	172.735	175.310	177.058	175.905	175.463	175.847	178.057

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82.5	121.093	122.861	123.207	124.801	124.955	124.148	118.711	115.291	114.830	116.886
85.0	88.932	90.623	91.142	92.832	93.197	93.025	89.413	86.800	83.899	82.419
87.5	56.791	58.366	59.135	60.864	61.555	62.074	60.710	59.999	59.077	58.693
90.0	24.611	26.090	27.147	28.876	29.932	31.181	32.276	33.429	34.524	35.158
92.5	52.218	52.526	52.718	53.333	53.333	53.409	52.756	51.431	50.239	48.626
95.0	79.864	79.019	78.327	77.828	76.829	75.734	73.428	69.720	66.262	62.439
97.5	107.645	105.666	104.071	102.515	100.517	98.308	94.504	89.797	88.202	87.030
100.0	145.396	144.590	144.513	144.590	144.397	144.013	142.630	140.728	139.229	137.904
102.5	200.131	198.787	198.153	197.615	196.692	195.424	193.503	191.793	190.698	189.373
105.0	255.193	253.272	252.100	251.062	249.525	247.489	245.011	243.416	243.205	242.436
107.5	310.639	308.064	306.412	305.893	304.722	302.973	300.822	298.785	298.209	297.344
110.0	370.715	368.256	366.699	365.604	363.760	361.455	358.554	356.075	354.346	353.117
112.5	433.077	429.965	427.717	426.007	423.529	420.724	417.438	414.441	412.174	410.407
115.0	496.131	492.327	489.330	487.024	484.296	481.203	477.937	474.325	471.866	469.829
117.5	559.357	555.342	551.826	549.041	546.620	543.584	540.049	536.015	532.960	530.866
120.0	623.775	619.280	615.130	611.941	609.770	606.811	603.353	599.472	595.668	592.690
122.5	688.904	684.216	679.336	675.744	673.285	670.998	668.251	663.275	657.742	653.246
125.0	754.801	749.979	744.734	740.546	737.318	734.532	730.613	725.772	720.450	716.012
127.5	821.255	815.972	810.631	805.521	801.256	797.605	793.994	790.459	785.041	780.545
130.0	888.094	882.542	877.335	871.860	867.210	862.907	859.045	855.491	852.148	845.443
132.5	956.047	950.495	944.481	939.255	935.375	930.399	926.038	920.716	915.971	911.129
135.0	1024.922	1019.177	1013.491	1007.804	1002.232	996.661	991.166	986.152	981.714	977.641
137.5	1092.855	1087.399	1080.867	1073.836	1067.515	1062.020	1057.121	1053.298	1049.436	1046.132
140.0	1157.542	1153.392	1147.206	1141.250	1134.853	1129.339	1124.363	1120.636	1118.523	1114.392
142.5	1223.170	1218.905	1215.063	1209.223	1203.920	1198.617	1194.026	1188.070	1181.692	1176.370
145.0	1289.164	1285.571	1282.132	1278.559	1273.179	1266.186	1258.982	1252.334	1245.937	1240.788
147.5	1356.579	1350.892	1345.801	1341.190	1336.214	1329.989	1324.398	1318.212	1312.890	1307.934
150.0	1414.906	1409.949	1405.569	1401.631	1398.173	1394.983	1389.988	1385.954	1381.497	1377.424
152.5	1472.907	1469.430	1465.568	1462.398	1459.824	1457.518	1456.193	1453.311	1450.564	1444.608
155.0	1531.446	1528.180	1525.836	1523.377	1521.360	1520.284	1516.903	1512.042	1507.796	1501.629
157.5	1588.871	1587.488	1583.511	1578.996	1574.846	1570.254	1566.354	1563.184	1559.400	1556.191
160.0	1633.981	1630.580	1627.737	1624.086	1620.705	1617.939	1615.441	1612.636	1610.504	1609.043
162.5	1674.960	1672.462	1669.926	1667.909	1666.391	1664.143	1662.318	1661.089	1660.416	1659.686
165.0	1714.056	1713.019	1712.366	1710.790	1709.465	1708.600	1708.197	1709.042	1707.563	1707.543
167.5	1753.518	1752.596	1752.019	1751.808	1751.962	1752.845	1748.676	1745.564	1742.701	1740.069
170.0	1781.663	1780.780	1780.011	1777.898	1775.842	1773.959	1772.249	1770.693	1769.291	1768.080
172.5	1796.745	1796.053	1795.457	1794.920	1794.478	1794.113	1793.844	1793.940	1792.384	1791.461
175.0	1810.885	1811.038	1811.231	1810.866	1810.558	1810.308	1810.116	1810.001	1809.924	1809.905
177.5	1822.988	1823.046	1823.142	1823.276	1823.411	1823.565	1823.757	1823.968	1824.199	1824.448
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

Vert. 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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1937.319	1937.857	1938.414	1938.971	1939.567	1940.143	1940.758	1941.373	1941.987	1942.621
5.0	1925.907	1926.714	1927.559	1928.443	1929.384	1930.364	1931.382	1932.439	1933.515	1934.648
7.5	1911.191	1911.825	1912.535	1913.342	1914.245	1915.244	1916.320	1917.492	1918.760	1920.105
10.0	1893.074	1893.093	1893.285	1893.650	1894.188	1894.918	1895.821	1896.897	1898.146	1899.567
12.5	1869.866	1869.866	1869.673	1869.501	1869.577	1869.885	1870.442	1871.249	1872.305	1873.612
15.0	1843.949	1843.103	1842.565	1841.893	1840.683	1839.876	1839.453	1839.453	1839.856	1840.683
17.5	1801.625	1804.007	1807.004	1807.254	1807.023	1803.930	1802.739	1802.028	1801.855	1802.201
20.0	1753.345	1755.035	1757.418	1760.492	1764.257	1764.526	1762.240	1760.569	1759.512	1759.108
22.5	1702.836	1704.277	1705.641	1707.851	1710.886	1714.748	1717.822	1715.132	1712.942	1711.616
25.0	1650.272	1650.733	1651.540	1652.405	1654.192	1656.958	1661.070	1663.894	1661.146	1658.764
27.5	1596.056	1594.788	1594.500	1594.039	1593.866	1594.750	1596.709	1599.649	1603.645	1601.301

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CANDELA TABULATION - (Cont.)

30.0	1538.651	1536.826	1534.155	1532.484	1531.485	1531.600	1532.887	1535.654	1538.113	1541.321
32.5	1468.162	1470.390	1473.445	1471.197	1469.122	1467.144	1466.567	1467.470	1469.833	1473.637
35.0	1398.864	1400.382	1402.245	1404.416	1403.859	1401.419	1400.363	1400.632	1402.188	1404.820
37.5	1329.989	1329.797	1330.508	1332.160	1335.426	1337.386	1334.273	1332.813	1333.082	1334.485
40.0	1261.748	1260.480	1260.077	1260.980	1262.613	1265.591	1267.031	1263.785	1262.267	1262.401
42.5	1192.374	1191.586	1190.241	1189.991	1190.183	1191.432	1193.949	1194.468	1191.375	1190.414
45.0	1118.600	1120.136	1121.827	1119.791	1118.696	1118.177	1119.137	1122.884	1123.691	1121.885
47.5	1047.265	1047.765	1048.668	1049.859	1048.168	1047.630	1048.956	1051.261	1054.009	1051.723
50.0	977.468	977.026	976.162	976.604	979.409	980.465	979.870	981.042	981.887	985.652
52.5	908.670	907.114	905.980	906.691	908.689	912.512	912.532	910.956	911.802	914.453
55.0	836.548	837.528	838.527	838.066	839.026	840.179	842.523	843.330	842.389	843.119
57.5	765.906	767.327	768.653	770.440	770.401	770.824	772.534	774.916	774.532	773.706
60.0	698.106	699.029	699.874	701.296	703.236	704.216	703.640	704.370	706.771	706.060
62.5	631.076	632.959	633.516	633.477	634.092	635.994	636.590	636.301	637.224	640.182
65.0	562.566	565.006	567.254	566.197	567.061	567.542	568.483	571.154	570.481	571.384
67.5	495.977	498.071	498.475	499.973	502.048	501.971	502.855	504.277	505.717	505.429
70.0	430.137	432.136	432.846	435.594	435.843	437.476	439.052	439.033	440.858	442.452
72.5	366.719	367.852	369.889	372.040	372.425	373.577	373.558	376.997	375.960	375.556
75.0	304.376	305.259	306.547	306.220	308.410	309.640	307.968	308.045	308.237	308.353
77.5	242.186	242.955	242.398	240.419	241.149	241.456	241.687	238.421	240.304	240.496
80.0	179.901	181.208	180.439	178.076	176.020	176.174	177.845	178.287	179.440	178.556
82.5	118.192	120.709	121.189	121.343	121.170	121.881	122.669	123.591	125.166	126.857
85.0	79.672	78.404	75.253	72.391	68.644	71.603	74.350	77.732	80.306	83.534
87.5	57.809	57.540	56.195	54.927	53.179	52.641	51.623	51.411	50.643	53.505
90.0	36.272	36.868	37.598	37.848	38.290	38.827	39.634	40.480	41.229	43.361
92.5	47.358	45.840	44.457	43.150	41.709	39.500	37.406	35.427	34.178	35.811
95.0	58.808	55.196	51.719	48.798	45.609	45.744	46.301	47.242	48.414	50.432
97.5	86.396	86.339	86.320	86.320	85.455	83.841	81.689	79.883	79.634	80.614
100.0	136.597	135.598	134.196	131.794	128.240	126.050	125.762	124.628	123.130	122.265
102.5	187.740	185.953	184.416	182.226	180.958	180.285	178.960	176.309	174.176	173.657
105.0	241.072	239.516	237.422	235.693	235.347	235.808	233.176	230.967	230.390	229.161
107.5	295.807	294.040	291.926	290.005	288.660	287.508	286.355	286.163	284.626	282.570
110.0	351.829	349.947	347.468	344.260	342.896	341.762	340.552	339.611	339.495	338.573
112.5	410.003	407.314	404.547	401.492	399.341	398.092	395.921	395.767	396.420	394.249
115.0	468.427	466.698	464.335	460.358	456.612	454.518	453.615	453.461	451.751	452.174
117.5	529.464	527.523	523.777	519.934	516.419	514.536	512.595	510.059	508.964	510.693
120.0	589.347	586.485	584.199	581.432	578.934	574.689	570.616	568.368	568.387	565.717
122.5	649.615	647.099	645.466	644.620	639.395	634.572	631.076	629.731	626.350	623.353
125.0	712.381	709.653	706.944	703.044	699.720	696.185	693.937	690.614	686.368	684.159
127.5	777.471	771.765	767.078	763.485	760.968	759.585	756.338	752.304	749.748	748.634
130.0	839.718	834.569	830.266	827.038	825.021	821.294	817.624	816.779	814.762	814.800
132.5	905.423	900.582	896.221	893.416	888.094	883.195	879.948	878.757	879.756	875.222
135.0	973.876	969.687	965.749	957.296	950.591	946.652	944.443	943.982	940.677	935.375
137.5	1043.135	1037.583	1029.744	1022.885	1016.949	1012.415	1009.936	1007.593	1001.579	996.834
140.0	1107.495	1101.040	1095.122	1089.897	1085.228	1081.885	1078.177	1071.300	1065.863	1062.424
142.5	1171.125	1165.919	1161.827	1157.850	1154.891	1151.106	1144.228	1138.791	1134.910	1132.528
145.0	1235.966	1232.046	1228.742	1226.513	1222.152	1215.428	1210.222	1206.840	1205.054	1203.939
147.5	1303.861	1300.691	1299.212	1290.489	1283.861	1278.655	1274.735	1272.161	1271.008	1271.546
150.0	1374.734	1367.798	1359.902	1352.871	1347.011	1342.496	1339.365	1337.924	1337.136	1337.194
152.5	1436.500	1429.142	1422.802	1417.039	1411.967	1407.855	1404.801	1403.187	1404.186	1398.269
155.0	1495.770	1490.698	1485.952	1481.399	1477.883	1475.424	1474.540	1472.888	1466.567	1460.823
157.5	1553.636	1551.042	1547.469	1544.683	1542.743	1541.648	1540.495	1533.771	1528.046	1523.339
160.0	1607.814	1606.277	1605.393	1605.182	1605.624	1602.242	1595.960	1590.581	1586.124	1582.569
162.5	1659.072	1659.091	1659.725	1657.515	1654.979	1648.524	1644.451	1640.993	1638.150	1635.921
165.0	1705.987	1702.356	1699.013	1695.766	1692.366	1689.407	1686.890	1684.796	1683.183	1682.011
167.5	1737.706	1735.593	1733.172	1730.771	1728.638	1726.813	1725.276	1724.046	1723.144	1722.548

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CANDELA TABULATION - (Cont.)

170.0	1766.601	1764.930	1763.489	1762.240	1761.222	1760.434	1759.877	1759.531	1759.435	1759.550
172.5	1790.693	1790.040	1789.540	1789.156	1788.925	1788.810	1788.849	1789.021	1789.329	1789.790
175.0	1809.963	1810.078	1810.251	1810.481	1810.769	1811.115	1811.519	1811.999	1812.518	1813.094
177.5	1824.717	1825.006	1825.313	1825.640	1825.985	1826.350	1826.715	1827.119	1827.522	1827.945
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1943.255	1943.909	1944.562	1945.196	1945.849	1946.502	1947.155	1946.790	1946.406	1946.041
5.0	1935.801	1936.992	1938.203	1939.451	1940.719	1941.987	1943.294	1942.545	1941.815	1941.084
7.5	1921.527	1923.044	1924.639	1926.291	1928.040	1929.845	1931.728	1930.614	1929.576	1928.616
10.0	1901.143	1902.891	1904.812	1906.868	1909.096	1911.460	1913.957	1912.574	1911.325	1910.230
12.5	1875.168	1876.974	1879.030	1881.316	1883.852	1886.638	1889.654	1887.848	1886.273	1884.966
15.0	1841.912	1843.526	1845.562	1848.002	1850.826	1854.035	1857.628	1855.687	1854.131	1852.940
17.5	1803.065	1804.449	1806.389	1808.829	1811.826	1815.342	1819.396	1817.148	1815.438	1814.247
20.0	1759.339	1760.242	1761.798	1764.065	1767.005	1770.655	1774.997	1772.653	1771.020	1770.078
22.5	1711.155	1711.559	1712.865	1715.055	1718.129	1722.087	1726.909	1724.277	1722.529	1721.645
25.0	1657.650	1657.765	1659.091	1661.627	1665.315	1670.118	1676.016	1672.923	1670.868	1669.888
27.5	1599.399	1598.669	1599.130	1600.840	1603.856	1608.198	1613.923	1610.619	1608.736	1608.256
30.0	1538.036	1536.211	1535.903	1537.133	1539.919	1544.280	1550.236	1546.893	1545.144	1544.971
32.5	1474.886	1472.235	1471.178	1471.774	1474.079	1478.152	1484.031	1480.285	1478.402	1478.383
35.0	1409.239	1406.933	1404.666	1404.224	1405.684	1409.123	1414.618	1411.544	1410.487	1411.390
37.5	1337.616	1339.403	1336.060	1334.946	1336.137	1339.634	1345.455	1342.323	1341.478	1342.919
40.0	1264.438	1268.664	1266.052	1264.284	1265.014	1268.261	1274.101	1271.181	1270.835	1273.006
42.5	1191.932	1195.390	1196.370	1193.872	1194.007	1196.869	1202.537	1198.445	1197.369	1199.367
45.0	1121.424	1123.652	1128.033	1124.690	1124.113	1126.419	1131.741	1126.380	1124.248	1125.477
47.5	1050.762	1052.030	1055.411	1053.548	1051.799	1053.356	1058.331	1049.187	1044.057	1043.481
50.0	982.675	981.772	984.000	984.826	981.887	982.214	986.075	973.434	965.038	961.311
52.5	915.183	912.628	913.972	917.335	912.570	911.360	914.011	900.966	891.956	886.922
55.0	846.289	844.118	844.079	847.326	842.081	838.277	838.700	828.594	822.485	816.760
57.5	775.761	777.298	775.147	776.146	770.516	760.949	755.896	744.811	739.585	728.596
60.0	706.829	710.556	706.752	705.407	701.987	690.153	683.352	665.023	653.727	629.558
62.5	638.549	638.876	640.144	638.511	638.703	621.527	609.136	577.993	556.264	525.141
65.0	572.998	572.691	576.437	572.133	570.692	548.906	529.483	495.093	467.178	434.249
67.5	507.024	508.465	508.907	505.775	497.034	471.194	441.415	413.365	388.832	361.090
70.0	442.183	444.527	443.182	443.624	425.258	399.802	370.715	344.106	320.475	297.940
72.5	378.745	378.188	381.839	378.496	360.263	331.522	310.600	273.540	257.306	247.489
75.0	308.391	310.120	311.484	311.811	302.262	265.644	254.924	215.386	204.435	197.384
77.5	239.420	239.593	241.187	244.492	236.999	211.025	199.536	164.128	152.121	146.626
80.0	179.747	180.362	180.381	180.381	175.732	157.365	152.831	113.697	106.473	104.859
82.5	128.067	129.335	129.950	130.949	130.219	103.092	85.935	73.121	73.832	80.441
85.0	83.707	84.321	86.742	88.068	88.279	74.908	33.218	44.841	57.732	64.514
87.5	58.020	60.114	59.826	61.786	61.786	60.960	24.687	48.952	55.734	56.964
90.0	45.129	46.993	48.760	49.356	51.238	52.122	38.539	51.815	50.201	47.896
92.5	40.614	45.052	41.825	41.440	41.037	36.618	10.720	29.952	30.989	30.605
95.0	49.817	48.626	50.393	50.432	49.509	48.645	16.695	21.652	27.243	29.798
97.5	80.556	80.767	80.690	80.671	80.114	80.037	79.595	40.403	40.307	44.130
100.0	122.649	122.995	122.515	121.670	122.784	127.702	131.103	74.715	67.953	65.590
102.5	172.966	172.946	173.062	174.291	177.577	179.171	178.287	127.395	107.895	101.843
105.0	227.720	228.296	227.489	228.085	229.468	228.604	227.931	195.809	162.534	146.588
107.5	283.031	280.745	280.995	280.284	278.977	277.690	278.286	266.105	232.023	201.130
110.0	335.595	335.326	333.098	334.270	330.927	329.332	329.428	328.160	305.644	267.931
112.5	393.289	391.099	389.120	388.121	386.488	383.894	384.547	384.413	375.345	345.682
115.0	451.655	448.274	448.312	445.161	446.064	443.202	444.527	441.895	441.031	420.435

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117.5	507.293	505.698	505.180	504.008	505.256	502.202	504.123	500.684	501.933	491.193
120.0	564.218	565.198	562.719	563.219	564.199	562.105	564.276	559.684	559.357	556.034
122.5	622.719	622.257	620.298	621.623	620.279	618.088	619.741	615.783	615.725	615.514
125.0	683.947	680.028	678.664	680.527	677.338	675.897	678.068	674.072	673.765	675.494
127.5	745.964	741.199	739.931	740.738	736.569	735.877	738.721	734.513	733.822	736.530
130.0	808.345	804.426	803.657	802.447	798.912	798.470	801.256	797.048	796.222	798.797
132.5	870.361	867.672	867.537	864.252	861.524	861.716	864.867	861.293	860.774	863.387
135.0	932.185	930.975	931.398	926.403	924.097	924.520	927.671	924.750	924.578	927.152
137.5	994.528	994.413	992.799	988.534	986.440	986.690	989.437	987.017	987.093	989.495
140.0	1060.867	1060.906	1055.911	1052.049	1050.647	1051.723	1055.315	1051.992	1051.089	1052.549
142.5	1131.856	1130.165	1124.344	1120.809	1119.560	1120.655	1124.113	1120.290	1118.772	1119.483
145.0	1204.535	1199.232	1194.276	1191.298	1190.356	1191.509	1194.833	1190.606	1188.531	1188.570
147.5	1270.278	1265.802	1262.824	1261.422	1261.671	1263.631	1267.377	1262.747	1259.942	1258.943
150.0	1332.045	1328.356	1326.185	1325.551	1326.473	1328.990	1333.101	1328.664	1325.820	1324.591
152.5	1393.984	1391.045	1389.450	1389.239	1390.392	1392.966	1396.943	1392.755	1389.988	1388.624
155.0	1456.481	1453.542	1451.985	1451.812	1452.984	1455.463	1459.228	1455.271	1452.581	1451.159
157.5	1519.669	1517.056	1515.519	1515.078	1515.750	1517.556	1520.476	1517.114	1514.866	1513.733
160.0	1579.956	1578.266	1577.478	1577.632	1578.688	1580.648	1583.491	1580.072	1577.555	1575.903
162.5	1634.326	1633.404	1633.116	1633.481	1634.519	1636.228	1638.592	1635.614	1633.308	1631.675
165.0	1681.300	1681.050	1681.300	1682.011	1683.202	1684.873	1687.025	1684.335	1682.145	1680.435
167.5	1722.298	1722.394	1722.836	1723.624	1724.777	1726.294	1728.177	1725.948	1724.104	1722.625
170.0	1759.915	1760.511	1761.356	1762.413	1763.719	1765.237	1767.005	1765.026	1763.297	1761.779
172.5	1790.366	1791.096	1791.942	1792.941	1794.074	1795.323	1796.706	1795.169	1793.748	1792.460
175.0	1813.728	1814.439	1815.169	1815.976	1816.821	1817.724	1818.685	1817.647	1816.648	1815.707
177.5	1828.387	1828.829	1829.290	1829.770	1830.250	1830.750	1831.249	1830.712	1830.193	1829.674
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1945.657	1945.292	1944.908	1944.543	1944.178	1943.813	1943.448	1943.083	1942.717	1942.372
5.0	1940.393	1939.720	1939.067	1938.433	1937.818	1937.242	1936.704	1936.185	1935.686	1935.225
7.5	1927.713	1926.887	1926.138	1925.465	1924.870	1924.370	1923.928	1923.582	1923.313	1923.140
10.0	1909.250	1908.424	1907.732	1907.194	1906.772	1906.503	1906.349	1906.349	1906.484	1906.753
12.5	1883.890	1883.083	1882.545	1882.257	1882.257	1882.526	1883.045	1883.871	1884.947	1886.311
15.0	1852.094	1851.633	1851.499	1851.729	1852.287	1853.170	1854.381	1855.898	1857.743	1859.875
17.5	1813.613	1813.517	1813.939	1814.919	1816.456	1818.493	1821.086	1824.179	1829.271	1830.769
20.0	1769.829	1770.251	1771.327	1773.076	1775.458	1778.455	1782.067	1786.274	1787.907	1785.928
22.5	1721.645	1722.548	1724.315	1726.948	1730.444	1734.805	1740.012	1738.263	1736.092	1734.824
25.0	1669.984	1671.175	1673.461	1676.843	1681.300	1685.834	1684.105	1681.761	1680.800	1680.800
27.5	1609.216	1611.579	1615.326	1620.455	1627.256	1624.720	1623.491	1622.588	1622.857	1624.259
30.0	1546.335	1549.236	1553.598	1559.419	1558.439	1558.151	1558.324	1559.803	1562.243	1565.471
32.5	1480.246	1483.993	1489.583	1491.504	1490.890	1491.351	1492.753	1495.635	1499.939	1504.569
35.0	1414.157	1418.672	1423.167	1421.054	1421.054	1422.937	1426.203	1430.737	1436.347	1438.902
37.5	1346.608	1352.506	1352.563	1351.257	1352.083	1354.446	1359.038	1365.800	1366.550	1365.627
40.0	1277.617	1282.516	1278.386	1277.905	1280.038	1283.842	1289.971	1289.913	1288.972	1291.085
42.5	1204.535	1203.286	1198.502	1198.022	1200.519	1207.052	1209.780	1207.532	1207.686	1210.952
45.0	1130.127	1120.982	1113.777	1109.916	1112.932	1118.542	1121.693	1123.191	1124.440	1128.186
47.5	1044.403	1039.139	1034.413	1030.493	1030.051	1032.760	1038.620	1043.903	1046.996	1049.302
50.0	959.620	959.025	960.600	961.561	955.912	959.063	964.173	972.800	974.164	975.681
52.5	881.812	881.466	887.402	881.351	874.012	876.624	885.712	889.266	882.638	887.671
55.0	802.812	799.642	803.311	780.046	771.381	774.340	782.255	778.778	774.071	781.602
57.5	709.653	700.527	684.620	664.236	648.021	653.746	665.292	668.770	667.924	666.368
60.0	604.832	590.020	571.768	552.845	539.761	545.409	555.419	566.158	571.307	581.374
62.5	497.783	481.971	472.711	456.881	459.878	462.721	467.332	476.573	488.773	499.281

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CANDELA TABULATION - (Cont.)

65.0	406.449	400.628	395.037	393.654	395.441	395.940	401.319	408.966	416.036	421.223
67.5	345.297	342.223	340.187	341.954	344.817	346.527	350.946	354.116	357.727	364.894
70.0	295.500	294.078	294.693	297.133	297.882	301.552	307.027	309.448	312.445	317.459
72.5	249.756	245.625	246.413	248.354	250.755	256.442	259.535	263.992	269.295	274.674
75.0	194.829	194.368	195.482	198.345	201.207	206.010	211.178	217.883	222.571	227.470
77.5	145.569	147.106	148.797	153.216	156.117	159.709	163.994	171.294	174.445	179.382
80.0	109.259	112.429	115.272	116.828	118.039	121.285	123.533	127.126	130.411	135.656
82.5	86.685	89.470	89.855	90.335	89.739	88.798	89.489	91.929	94.850	98.423
85.0	67.223	67.242	67.818	66.973	64.091	62.497	60.633	60.403	60.883	65.840
87.5	54.159	55.158	52.679	47.761	44.668	44.361	43.400	44.188	45.225	47.953
90.0	45.302	42.017	39.654	36.906	34.620	32.353	30.912	30.547	30.547	30.451
92.5	29.202	29.567	27.416	25.610	25.686	26.570	27.512	28.472	29.740	30.739
95.0	29.759	28.165	28.126	29.029	29.049	29.683	30.086	29.740	29.164	31.335
97.5	48.645	49.509	49.260	46.666	43.707	44.168	47.703	50.950	53.102	54.562
100.0	69.893	73.082	74.139	75.080	73.947	73.140	74.408	76.233	79.461	83.668
102.5	100.267	101.266	101.574	103.610	105.743	106.819	109.393	112.083	115.695	118.999
105.0	140.094	138.250	138.403	138.557	141.055	144.935	148.278	150.987	155.252	160.017
107.5	187.989	184.032	182.264	182.764	184.954	187.970	192.600	196.865	200.400	205.223
110.0	250.601	237.672	234.809	234.021	235.866	239.189	242.878	247.220	252.465	259.496
112.5	325.432	307.546	298.305	296.307	294.020	297.344	300.898	304.376	310.178	319.649
115.0	408.639	388.793	374.077	367.987	365.335	362.819	364.240	370.503	377.766	385.892
117.5	487.735	476.265	457.726	447.774	443.951	440.704	438.956	444.181	452.750	462.222
120.0	554.055	553.517	536.783	529.848	529.790	524.449	522.470	525.929	534.074	542.028
122.5	613.401	614.611	609.020	604.563	607.387	608.886	605.543	606.619	612.997	622.872
125.0	672.920	673.688	676.685	673.919	675.955	681.046	682.737	681.123	684.351	689.134
127.5	734.763	735.186	739.182	740.853	741.679	744.657	748.038	749.383	750.190	752.957
130.0	799.431	799.392	802.024	807.250	807.442	809.209	809.363	812.572	815.357	816.529
132.5	866.384	865.270	866.807	870.304	873.128	871.379	871.879	874.165	878.008	882.407
135.0	932.474	930.456	929.880	931.186	934.568	936.527	936.201	937.738	940.831	945.980
137.5	994.067	994.740	993.011	993.472	996.373	1000.945	1002.501	1003.942	1007.055	1011.300
140.0	1056.218	1060.598	1058.716	1058.696	1060.791	1065.075	1071.127	1073.663	1075.334	1078.312
142.5	1122.288	1127.149	1127.629	1127.206	1128.705	1131.913	1136.544	1142.461	1145.362	1147.629
145.0	1190.606	1194.621	1199.040	1197.887	1198.329	1199.905	1203.017	1207.743	1213.757	1217.541
147.5	1259.731	1262.286	1266.570	1267.685	1266.878	1267.493	1269.298	1272.507	1277.002	1282.363
150.0	1324.956	1326.877	1330.373	1335.369	1334.619	1334.677	1335.042	1336.982	1340.172	1344.609
152.5	1388.624	1390.027	1392.755	1396.828	1401.573	1400.440	1400.766	1402.591	1405.646	1409.892
155.0	1451.044	1452.235	1454.713	1458.498	1463.589	1469.122	1469.718	1469.718	1471.332	1474.041
157.5	1513.675	1514.674	1516.691	1519.727	1523.742	1528.680	1534.251	1535.000	1535.558	1537.037
160.0	1575.173	1575.326	1576.383	1578.343	1581.205	1584.932	1589.562	1595.038	1597.920	1597.401
162.5	1630.715	1630.388	1630.734	1631.733	1633.366	1635.633	1638.515	1642.011	1647.890	1650.119
165.0	1679.225	1678.514	1678.303	1678.591	1679.379	1680.666	1682.453	1684.739	1687.486	1690.714
167.5	1721.511	1720.761	1720.377	1720.358	1720.684	1721.338	1722.356	1723.681	1725.353	1727.332
170.0	1760.511	1759.473	1758.667	1758.109	1757.783	1757.687	1757.821	1758.186	1758.801	1759.627
172.5	1791.327	1790.309	1789.444	1788.714	1788.119	1787.677	1787.369	1787.216	1787.196	1787.331
175.0	1814.823	1813.978	1813.209	1812.479	1811.826	1811.231	1810.673	1810.212	1809.790	1809.444
177.5	1829.155	1828.656	1828.176	1827.714	1827.253	1826.811	1826.389	1825.985	1825.582	1825.217
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1942.026	1941.680	1941.353	1941.027	1940.700	1940.393	1940.085	1939.797	1939.509	1939.240
5.0	1934.802	1934.418	1934.053	1933.726	1933.438	1933.188	1932.977	1932.785	1932.650	1932.535
7.5	1923.025	1923.025	1923.083	1923.237	1923.467	1924.043	1923.621	1923.371	1923.160	1923.006
10.0	1907.137	1907.656	1908.309	1908.808	1909.116	1909.538	1910.057	1910.691	1911.440	1912.286

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CANDELA TABULATION - (Cont.)

12.5	1887.925	1889.404	1890.230	1891.229	1892.363	1893.650	1895.072	1897.070	1894.976	1893.285
15.0	1861.950	1864.198	1866.792	1867.272	1866.100	1866.042	1863.353	1861.508	1860.106	1859.107
17.5	1831.403	1829.078	1827.369	1826.254	1825.371	1824.487	1824.045	1824.045	1824.275	1823.180
20.0	1784.584	1783.873	1783.796	1783.143	1782.605	1782.739	1783.565	1783.969	1784.430	1785.371
22.5	1734.440	1734.940	1735.343	1736.035	1737.399	1739.358	1740.377	1742.163	1744.699	1746.160
25.0	1681.761	1682.894	1684.547	1687.140	1690.368	1692.635	1695.555	1696.746	1695.017	1694.191
27.5	1626.296	1628.563	1631.790	1635.844	1638.361	1637.516	1636.958	1635.710	1635.575	1635.249
30.0	1568.487	1572.675	1576.037	1574.001	1573.463	1573.636	1573.636	1574.500	1574.827	1575.903
32.5	1510.428	1507.969	1507.277	1507.489	1508.565	1509.276	1511.101	1512.273	1513.944	1515.712
35.0	1438.345	1438.364	1438.902	1441.188	1442.495	1445.261	1447.739	1450.833	1453.292	1452.869
37.5	1366.530	1367.779	1370.238	1372.986	1376.790	1380.690	1382.592	1382.150	1382.227	1381.708
40.0	1293.659	1297.156	1301.440	1305.551	1307.396	1308.241	1309.221	1309.452	1309.874	1311.085
42.5	1216.811	1225.437	1229.318	1231.009	1231.432	1233.276	1236.004	1238.021	1238.675	1239.827
45.0	1135.852	1142.980	1148.820	1152.086	1156.255	1158.695	1162.403	1166.975	1168.897	1169.646
47.5	1054.470	1062.885	1069.590	1074.316	1078.965	1084.979	1089.359	1093.682	1098.388	1098.158
50.0	981.580	989.284	996.507	1001.502	1003.942	1009.821	1016.027	1020.349	1024.326	1027.150
52.5	903.617	918.545	929.861	926.345	929.400	936.873	943.790	948.900	952.858	956.297
55.0	803.407	829.036	834.531	837.086	847.614	860.755	873.185	879.775	883.214	885.616
57.5	692.593	717.568	734.360	740.680	754.513	779.585	800.237	804.022	807.404	812.783
60.0	594.631	618.108	634.323	642.238	659.029	688.731	708.942	718.913	726.329	738.452
62.5	512.691	530.174	548.061	561.624	580.164	603.353	624.947	632.190	642.526	659.375
65.0	436.016	453.922	470.022	485.353	503.566	526.197	544.161	549.425	558.992	579.511
67.5	375.134	386.449	398.822	410.464	429.331	452.423	470.252	480.300	487.812	504.507
70.0	324.203	329.486	336.133	348.390	364.413	383.510	400.417	412.674	419.629	433.173
72.5	278.113	282.551	288.295	297.652	306.739	319.726	332.444	343.991	353.597	364.356
75.0	230.717	237.230	242.917	250.832	255.865	261.744	270.370	281.994	293.386	303.338
77.5	184.128	191.236	197.960	203.666	207.432	211.832	219.151	228.546	237.787	245.241
80.0	141.227	146.511	151.487	156.040	159.344	163.264	169.104	176.635	183.475	188.470
82.5	101.363	104.129	106.262	109.739	111.641	115.483	121.305	128.797	134.791	139.287
85.0	68.625	71.891	74.216	78.654	81.286	85.397	89.470	94.350	98.116	101.055
87.5	49.202	50.624	51.603	53.717	54.754	56.599	58.328	60.422	61.843	63.015
90.0	30.220	29.625	29.433	29.010	28.568	28.088	27.531	26.743	25.763	25.072
92.5	31.988	33.198	34.543	36.176	37.982	39.884	41.613	43.400	45.014	46.224
95.0	34.063	37.041	39.961	43.650	47.703	51.968	55.984	60.287	64.437	67.473
97.5	55.830	57.233	58.654	60.671	62.996	65.763	70.911	77.732	84.225	88.952
100.0	87.549	91.814	96.502	101.151	105.435	109.989	115.041	120.920	126.204	129.201
102.5	123.226	128.394	136.252	142.976	149.008	155.329	162.706	170.833	177.538	181.246
105.0	166.530	174.714	183.340	190.429	196.174	202.072	211.870	221.995	229.660	233.733
107.5	213.734	224.204	235.155	244.953	253.157	261.226	270.620	279.515	285.394	287.949
110.0	268.641	279.112	290.793	302.551	312.867	322.877	333.098	341.705	346.604	348.256
112.5	330.581	342.723	356.114	365.893	375.652	386.584	396.459	403.606	407.487	409.004
115.0	397.419	411.098	423.701	434.230	443.144	452.712	460.454	465.987	468.715	470.406
117.5	472.250	483.835	495.708	503.604	511.116	518.205	523.873	528.234	530.405	532.806
120.0	550.405	557.705	565.428	572.998	579.607	583.161	587.100	590.711	593.324	596.340
122.5	625.408	629.097	632.805	637.954	643.199	647.348	651.498	654.457	657.492	660.643
125.0	695.263	697.184	699.202	703.006	707.002	711.420	715.474	718.990	722.679	726.271
127.5	756.165	760.449	764.907	769.114	773.206	777.740	780.680	784.042	787.769	791.554
130.0	819.161	822.888	828.345	834.800	841.947	844.560	847.364	850.631	853.781	858.008
132.5	884.540	888.344	893.185	899.102	904.789	910.207	915.183	918.026	921.292	925.807
135.0	952.339	955.720	959.851	964.731	969.956	974.471	979.197	983.558	988.880	994.855
137.5	1016.353	1022.540	1028.745	1033.125	1036.833	1041.021	1044.960	1049.744	1055.450	1061.636
140.0	1082.673	1088.398	1094.719	1101.289	1105.996	1109.224	1113.278	1118.234	1123.864	1130.242
142.5	1151.164	1154.853	1159.694	1164.977	1171.029	1178.022	1183.978	1188.762	1194.352	1199.501
145.0	1219.347	1222.056	1225.495	1230.337	1235.850	1242.498	1249.587	1257.483	1264.957	1270.144
147.5	1288.357	1290.105	1293.486	1297.982	1303.227	1308.721	1315.254	1321.228	1327.761	1333.332
150.0	1350.834	1358.231	1365.166	1367.664	1371.679	1376.328	1380.805	1386.203	1390.276	1394.618

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CANDELA TABULATION - (Cont.)

152.5	1414.906	1420.439	1427.048	1434.560	1440.650	1443.897	1447.413	1449.872	1453.215	1455.905
155.0	1477.806	1482.052	1486.894	1492.638	1498.939	1504.031	1509.948	1514.328	1515.078	1516.749
157.5	1539.458	1542.762	1545.471	1548.430	1552.176	1556.672	1559.957	1563.838	1568.333	1572.464
160.0	1597.651	1598.688	1600.456	1602.031	1603.760	1606.104	1609.024	1611.656	1614.500	1617.977
162.5	1652.405	1652.136	1652.443	1653.346	1654.307	1655.133	1656.516	1658.476	1660.820	1662.299
165.0	1693.826	1697.034	1700.589	1702.202	1702.395	1704.047	1703.125	1703.470	1704.277	1705.545
167.5	1729.637	1731.904	1733.806	1735.977	1738.417	1741.107	1744.027	1747.889	1747.178	1747.120
170.0	1760.684	1761.971	1763.489	1764.814	1765.948	1767.254	1768.753	1770.424	1772.269	1774.286
172.5	1787.600	1788.022	1788.580	1789.271	1790.117	1791.615	1791.481	1791.730	1792.076	1792.518
175.0	1809.156	1808.925	1808.771	1808.675	1808.637	1808.675	1808.791	1808.944	1809.175	1809.482
177.5	1824.871	1824.525	1824.218	1823.930	1823.661	1823.411	1823.180	1822.988	1822.815	1822.662
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

Vert. 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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1938.971	1938.741	1938.491	1938.280	1938.068	1937.876	1937.684	1937.530	1937.377	1937.242
5.0	1932.477	1931.940	1931.440	1930.979	1930.518	1930.095	1929.692	1929.308	1928.981	1928.654
7.5	1922.929	1922.891	1922.929	1923.006	1923.256	1922.622	1921.969	1921.335	1920.758	1920.220
10.0	1913.189	1913.169	1913.227	1913.381	1913.592	1913.880	1914.399	1913.592	1912.728	1911.921
12.5	1891.883	1890.787	1890.019	1888.847	1887.310	1886.042	1885.081	1884.409	1882.987	1881.335
15.0	1858.396	1857.070	1856.110	1855.514	1855.629	1853.977	1852.786	1851.960	1851.595	1849.827
17.5	1822.566	1822.450	1822.374	1821.663	1821.355	1821.471	1820.568	1819.569	1818.973	1818.166
20.0	1786.370	1786.332	1786.831	1788.022	1787.561	1787.657	1788.541	1787.254	1786.524	1786.351
22.5	1747.620	1748.234	1746.121	1744.430	1743.720	1741.337	1739.858	1738.571	1736.419	1735.093
25.0	1693.403	1691.770	1691.059	1689.772	1688.773	1688.158	1686.487	1685.680	1683.989	1682.625
27.5	1635.172	1635.537	1634.768	1634.980	1634.192	1633.961	1633.212	1632.290	1631.483	1630.119
30.0	1576.940	1577.670	1578.708	1578.919	1579.841	1579.515	1580.053	1578.996	1578.881	1577.555
32.5	1518.132	1520.150	1521.725	1520.495	1519.439	1518.151	1516.883	1515.231	1513.867	1512.004
35.0	1452.350	1452.811	1452.062	1451.620	1450.621	1450.564	1449.027	1448.162	1446.721	1445.300
37.5	1381.612	1381.996	1383.264	1382.399	1382.169	1382.092	1381.439	1381.343	1379.614	1378.653
40.0	1311.200	1312.084	1313.332	1313.947	1313.851	1313.793	1314.062	1313.371	1312.545	1312.084
42.5	1241.652	1242.536	1244.015	1245.879	1244.822	1244.688	1245.725	1244.400	1243.766	1243.401
45.0	1170.914	1171.990	1173.258	1173.988	1174.237	1174.602	1174.968	1174.891	1174.756	1173.892
47.5	1099.311	1101.270	1102.442	1103.211	1103.749	1104.479	1104.940	1105.420	1105.862	1104.671
50.0	1029.091	1030.474	1032.146	1033.548	1033.337	1034.240	1035.181	1035.969	1036.795	1035.546
52.5	958.525	960.619	962.483	964.231	963.174	963.597	964.769	965.499	966.133	965.365
55.0	887.844	890.054	891.053	892.321	892.474	892.686	893.973	894.549	895.279	895.068
57.5	816.798	818.912	819.891	820.986	821.889	822.139	823.253	823.715	824.521	824.752
60.0	744.965	748.269	749.479	750.171	751.381	752.342	752.553	753.014	753.821	754.398
62.5	672.823	678.453	679.490	678.933	680.201	680.278	680.124	679.682	679.452	679.375
65.0	598.377	604.410	604.563	604.775	607.599	607.887	607.003	605.754	604.602	603.948
67.5	523.777	529.387	529.406	530.501	534.651	535.900	534.209	532.115	529.905	528.618
70.0	447.851	454.556	454.959	456.131	461.434	464.277	461.664	458.706	455.363	453.307
72.5	374.826	382.031	383.740	385.297	390.599	394.346	391.771	389.235	386.622	385.662
75.0	311.945	317.574	319.054	319.553	322.493	325.221	322.723	320.514	318.516	318.497
77.5	250.659	253.867	254.482	254.367	255.116	256.096	253.675	251.696	250.332	251.331
80.0	190.621	190.794	190.007	189.622	188.316	187.010	184.627	182.841	182.091	184.128
82.5	140.862	140.958	141.016	141.708	140.997	139.959	138.442	137.750	138.000	140.344
85.0	101.804	101.555	101.151	100.940	99.691	97.847	95.791	95.099	95.464	97.405
87.5	62.823	62.189	61.382	60.230	58.443	55.734	53.140	52.468	52.987	54.466
90.0	23.881	22.862	21.652	19.500	17.176	13.602	10.490	9.817	10.509	11.527
92.5	46.378	46.090	45.475	44.764	43.611	41.594	39.769	39.884	41.267	42.651
95.0	68.913	69.336	69.355	70.066	70.066	69.586	69.067	69.970	72.045	73.774
97.5	91.564	92.659	93.390	95.464	96.617	97.674	98.404	100.133	102.842	104.917

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CANDELA TABULATION - (Cont.)

100.0	129.931	129.354	128.778	129.892	130.353	131.103	131.564	132.870	135.272	135.041
102.5	182.533	182.879	183.513	185.319	186.817	188.220	188.854	190.333	192.888	194.829
105.0	235.539	236.788	238.517	241.072	243.512	245.395	246.221	247.873	250.563	252.734
107.5	288.948	291.196	293.886	297.190	300.476	302.685	303.646	305.490	308.295	310.658
110.0	349.697	350.984	353.655	357.017	360.263	362.127	362.819	364.375	366.872	369.120
112.5	411.022	411.982	415.767	419.801	423.548	425.757	427.064	429.062	431.886	434.499
115.0	472.289	473.633	478.763	483.086	487.236	489.752	491.481	493.902	497.014	499.915
117.5	534.382	536.706	541.894	546.812	551.404	554.132	556.091	558.896	562.297	565.371
120.0	598.185	602.277	607.426	612.363	616.936	620.317	621.681	624.678	628.079	631.076
122.5	663.390	668.635	673.822	679.029	683.505	686.541	689.038	692.554	696.012	698.971
125.0	730.306	735.666	741.026	746.482	750.536	753.648	756.761	760.699	764.042	766.962
127.5	796.856	802.677	808.710	814.743	818.066	821.255	824.790	829.017	832.225	835.050
130.0	863.925	869.458	875.548	881.370	885.539	888.997	892.974	897.162	900.543	903.271
132.5	931.302	937.411	943.348	948.573	953.184	957.046	961.234	965.307	968.996	971.705
135.0	1000.273	1005.960	1012.031	1017.006	1021.348	1025.575	1029.955	1033.817	1037.429	1040.253
137.5	1068.302	1074.489	1080.637	1086.708	1090.300	1094.450	1099.772	1102.692	1105.977	1109.205
140.0	1135.910	1141.981	1147.245	1152.278	1157.004	1161.519	1166.418	1170.760	1173.949	1177.004
142.5	1205.054	1209.434	1214.487	1218.252	1222.613	1227.013	1231.297	1236.561	1238.521	1241.326
145.0	1273.852	1277.733	1281.152	1285.110	1288.587	1292.948	1296.733	1300.768	1303.342	1305.724
147.5	1338.654	1343.745	1348.798	1351.872	1355.118	1358.711	1362.746	1365.685	1368.452	1370.219
150.0	1398.768	1402.668	1407.068	1411.083	1415.848	1420.189	1425.396	1428.316	1432.120	1433.888
152.5	1458.652	1462.091	1465.146	1469.122	1472.504	1476.596	1479.977	1482.994	1485.818	1487.508
155.0	1518.920	1521.052	1524.050	1526.586	1529.467	1532.791	1535.000	1538.094	1539.573	1541.187
157.5	1576.979	1580.898	1582.243	1584.049	1586.930	1588.237	1590.504	1592.732	1593.424	1594.961
160.0	1621.666	1624.490	1627.871	1632.059	1634.653	1637.977	1642.492	1643.433	1645.277	1647.890
162.5	1664.278	1666.776	1669.350	1671.310	1673.749	1676.689	1678.091	1679.225	1680.819	1682.164
165.0	1707.102	1707.928	1709.196	1710.886	1713.691	1713.480	1714.056	1715.017	1716.727	1716.535
167.5	1747.447	1748.138	1749.195	1749.637	1749.426	1749.560	1750.021	1750.809	1750.943	1750.847
170.0	1776.399	1777.206	1778.147	1779.223	1780.395	1781.682	1783.450	1783.584	1783.950	1784.007
172.5	1793.056	1793.671	1794.382	1795.189	1796.380	1796.303	1796.399	1796.572	1796.822	1797.148
175.0	1809.828	1809.636	1809.482	1809.386	1809.329	1809.329	1809.386	1809.482	1809.636	1809.828
177.5	1822.527	1822.431	1822.335	1822.297	1822.258	1822.258	1822.277	1822.316	1822.374	1822.470
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1937.127	1937.012	1936.935	1936.493	1936.070	1935.667	1935.282	1934.937	1934.591	1934.264
5.0	1928.366	1928.116	1927.905	1927.040	1926.214	1925.427	1924.677	1923.967	1923.294	1922.660
7.5	1919.721	1919.279	1918.875	1917.607	1916.397	1915.225	1914.130	1913.073	1912.094	1911.171
10.0	1911.171	1910.480	1909.846	1908.194	1906.599	1905.081	1903.640	1902.257	1900.720	1898.069
12.5	1879.971	1878.895	1878.127	1876.148	1874.496	1873.112	1872.056	1870.672	1868.482	1866.580
15.0	1848.329	1847.176	1846.389	1844.045	1842.047	1840.414	1838.896	1835.976	1833.420	1831.230
17.5	1816.591	1815.419	1814.669	1811.941	1809.617	1807.696	1804.737	1801.452	1798.589	1795.784
20.0	1784.776	1783.623	1782.931	1779.838	1777.187	1774.843	1770.751	1767.139	1763.815	1759.416
22.5	1733.249	1731.347	1730.252	1727.044	1724.661	1722.125	1718.898	1716.477	1713.384	1710.560
25.0	1681.185	1678.956	1677.592	1674.134	1671.579	1668.293	1664.970	1661.953	1658.053	1655.075
27.5	1629.178	1626.584	1624.913	1621.243	1618.534	1614.634	1611.234	1607.103	1603.011	1599.207
30.0	1577.228	1574.231	1572.233	1568.391	1565.528	1561.148	1557.613	1552.483	1547.700	1543.588
32.5	1510.774	1507.681	1505.395	1501.917	1499.305	1495.424	1492.138	1488.162	1484.857	1481.841
35.0	1443.839	1440.977	1438.575	1435.367	1432.639	1428.624	1424.800	1421.131	1417.404	1413.926
37.5	1376.943	1374.273	1371.737	1368.913	1366.031	1361.919	1357.866	1354.446	1350.354	1346.358
40.0	1310.105	1307.569	1304.898	1302.516	1299.480	1295.311	1291.277	1287.646	1283.688	1279.173
42.5	1241.326	1239.097	1236.523	1234.525	1231.566	1227.743	1224.016	1220.212	1216.504	1212.220
45.0	1172.432	1170.587	1168.147	1166.553	1163.709	1160.136	1156.793	1152.739	1148.820	1145.054

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CANDELA TABULATION - (Cont.)

47.5	1103.518	1102.058	1099.753	1098.657	1096.006	1092.721	1089.858	1085.555	1081.693	1077.985
50.0	1034.585	1033.490	1031.377	1030.781	1028.418	1025.517	1022.905	1018.659	1015.143	1011.166
52.5	964.635	963.808	961.830	961.157	958.756	956.008	953.434	950.226	947.228	943.521
55.0	894.626	894.107	892.282	891.494	889.074	886.326	883.790	881.331	878.392	874.876
57.5	824.598	824.387	822.735	821.851	819.430	816.702	814.493	812.552	809.671	806.904
60.0	754.551	754.647	753.187	752.188	749.844	747.135	745.502	743.946	741.237	739.335
62.5	679.029	678.875	677.473	677.108	675.129	673.016	672.113	671.037	669.365	668.059
65.0	603.295	603.045	601.758	602.008	600.279	598.569	597.935	596.974	595.649	594.189
67.5	527.600	527.216	526.044	526.928	525.448	524.238	523.834	523.143	522.048	520.799
70.0	451.905	451.367	450.329	451.866	450.656	449.983	449.753	449.503	448.543	447.889
72.5	384.797	384.106	382.914	383.817	382.684	382.261	381.915	381.685	380.090	379.264
75.0	317.959	316.921	315.480	315.788	314.942	315.019	314.923	315.192	313.348	312.906
77.5	251.120	249.718	248.065	247.739	247.201	247.816	247.969	248.776	246.644	246.663
80.0	184.301	182.533	180.631	179.671	179.479	180.631	181.035	182.456	179.997	180.554
82.5	140.613	139.191	137.616	137.193	137.154	138.077	138.211	139.153	136.674	136.655
85.0	97.251	95.964	94.600	94.792	95.215	96.348	97.001	98.212	97.021	97.731
87.5	53.890	52.699	51.565	52.410	53.256	54.639	55.792	57.290	57.559	58.866
90.0	10.528	9.452	8.549	10.009	11.316	12.910	14.563	16.349	18.078	19.980
92.5	42.324	41.652	41.479	43.169	44.706	46.397	48.107	49.913	51.642	53.678
95.0	74.101	73.832	74.389	76.329	78.078	79.864	81.670	83.476	85.205	87.376
97.5	105.916	106.031	107.318	109.489	111.468	113.332	115.214	116.982	118.730	120.959
100.0	137.231	138.134	140.228	142.515	144.340	145.627	150.180	152.831	155.540	158.922
102.5	196.385	196.961	198.806	201.899	204.166	206.587	208.988	211.428	213.695	216.442
105.0	254.655	255.577	257.364	261.072	263.147	265.548	267.796	270.044	271.927	274.059
107.5	312.963	314.212	315.941	320.072	322.147	324.510	326.623	328.679	330.235	331.810
110.0	369.677	372.425	374.500	378.726	379.475	383.875	386.161	388.409	390.138	391.733
112.5	436.900	438.456	439.974	444.316	447.006	449.253	451.271	453.173	454.575	455.728
115.0	502.317	504.008	505.449	509.445	512.615	514.689	516.438	518.032	519.185	519.954
117.5	567.753	569.578	570.923	574.573	578.185	580.164	581.663	583.046	583.968	584.429
120.0	630.768	634.515	636.398	639.087	641.220	645.888	647.233	648.559	649.481	649.807
122.5	701.372	703.351	704.850	708.731	711.997	713.630	714.494	715.436	716.319	716.050
125.0	769.441	771.554	773.321	777.663	780.315	781.487	781.928	782.486	783.158	782.601
127.5	837.566	839.776	841.774	846.558	848.748	849.439	849.574	849.670	850.035	849.574
130.0	905.731	907.287	910.226	914.664	917.258	917.508	917.392	916.874	916.854	916.432
132.5	974.029	976.258	978.467	983.059	985.057	985.403	985.115	984.154	983.616	983.270
135.0	1042.366	1044.499	1046.689	1050.762	1052.856	1053.452	1052.818	1051.742	1050.896	1050.262
137.5	1110.761	1112.759	1114.930	1118.465	1120.674	1121.616	1120.694	1119.695	1118.753	1117.408
140.0	1179.021	1180.289	1183.152	1185.476	1188.339	1189.069	1187.916	1186.725	1184.862	1182.787
142.5	1243.420	1245.111	1247.185	1249.971	1252.238	1252.546	1251.566	1250.624	1248.473	1246.724
145.0	1307.895	1309.259	1311.238	1313.755	1316.253	1316.176	1315.503	1314.255	1312.468	1310.796
147.5	1372.448	1373.427	1375.272	1377.558	1380.382	1379.940	1379.767	1378.134	1376.866	1375.406
150.0	1434.637	1436.981	1439.305	1440.746	1442.206	1442.936	1442.591	1439.843	1437.596	1435.040
152.5	1489.660	1490.448	1492.177	1493.791	1496.346	1495.827	1495.424	1493.752	1491.812	1489.795
155.0	1542.704	1543.434	1545.067	1546.374	1548.545	1548.814	1548.334	1547.930	1545.951	1544.818
157.5	1595.768	1596.440	1597.939	1598.957	1600.802	1601.916	1601.359	1601.589	1600.398	1599.207
160.0	1647.352	1649.081	1650.810	1651.233	1651.636	1653.923	1652.405	1651.367	1650.561	1647.679
162.5	1682.587	1683.432	1684.700	1685.200	1686.103	1687.409	1687.121	1686.218	1685.757	1685.046
165.0	1716.842	1717.534	1718.609	1718.936	1719.647	1720.723	1721.856	1721.088	1720.704	1720.684
167.5	1751.078	1751.635	1752.499	1752.711	1753.249	1754.094	1755.247	1755.958	1755.650	1755.650
170.0	1784.795	1785.602	1786.389	1786.389	1786.389	1786.409	1787.119	1787.504	1787.696	1786.658
172.5	1797.552	1798.013	1798.551	1798.551	1798.608	1798.743	1798.954	1799.204	1799.530	1799.934
175.0	1810.078	1810.385	1810.731	1810.693	1810.712	1810.769	1810.885	1811.038	1811.231	1811.461
177.5	1822.585	1822.719	1822.892	1822.854	1822.854	1822.873	1822.911	1822.969	1823.065	1823.180
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

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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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1933.976	1933.688	1933.438	1933.208	1933.015	1932.823	1932.670	1932.535	1932.439	1932.362
5.0	1922.084	1921.546	1921.046	1920.604	1920.182	1919.279	1918.434	1917.646	1916.935	1916.301
7.5	1910.115	1908.347	1906.657	1905.062	1903.563	1902.161	1900.874	1899.683	1898.607	1897.531
10.0	1895.533	1893.131	1890.826	1888.674	1886.503	1884.198	1881.854	1879.664	1877.627	1875.725
12.5	1865.005	1863.756	1862.450	1861.124	1860.144	1859.530	1859.280	1858.915	1854.899	1851.153
15.0	1829.290	1826.831	1824.775	1823.161	1821.394	1819.684	1817.647	1816.014	1814.804	1813.901
17.5	1792.403	1789.502	1787.081	1783.911	1780.703	1777.936	1774.843	1772.672	1770.136	1768.176
20.0	1755.516	1752.134	1747.620	1743.604	1740.089	1735.612	1731.405	1727.812	1724.335	1720.204
22.5	1708.542	1705.795	1703.855	1702.222	1697.457	1691.982	1686.737	1680.551	1675.133	1670.176
25.0	1651.713	1648.908	1646.084	1642.127	1639.149	1635.729	1632.540	1628.793	1625.143	1618.496
27.5	1595.499	1592.098	1586.700	1582.377	1577.536	1573.271	1569.486	1565.740	1562.819	1560.034
30.0	1539.861	1533.483	1527.661	1521.802	1516.480	1511.504	1506.893	1502.686	1498.056	1494.617
32.5	1478.056	1473.003	1468.431	1462.052	1456.231	1450.813	1445.146	1438.864	1433.849	1430.045
35.0	1409.104	1404.359	1399.364	1395.233	1391.621	1388.029	1382.611	1376.232	1371.506	1366.530
37.5	1341.440	1336.252	1330.431	1326.646	1322.439	1316.579	1312.314	1310.143	1307.377	1300.864
40.0	1274.735	1269.202	1263.881	1258.866	1252.469	1246.859	1243.401	1239.750	1234.678	1230.682
42.5	1207.666	1202.806	1196.927	1190.683	1183.959	1179.098	1175.064	1169.665	1164.651	1160.559
45.0	1139.867	1134.622	1129.224	1122.327	1116.659	1112.394	1107.207	1101.789	1096.179	1090.243
47.5	1072.837	1067.323	1061.405	1053.586	1050.186	1045.267	1040.176	1034.355	1028.303	1021.771
50.0	1006.305	1001.041	994.605	989.072	985.307	978.909	973.338	967.728	960.927	955.835
52.5	939.294	935.029	928.958	924.943	919.928	913.588	908.766	902.099	895.798	889.708
55.0	870.649	866.096	861.524	858.988	853.877	849.728	845.347	837.124	832.533	826.769
57.5	802.447	798.278	794.608	791.438	786.559	783.542	778.854	773.821	769.921	764.503
60.0	734.628	731.497	728.020	724.926	721.584	717.760	713.034	706.906	701.757	697.607
62.5	664.947	663.909	661.450	659.913	656.666	652.632	647.483	640.067	633.996	627.176
65.0	591.999	590.654	589.155	588.809	586.466	584.890	580.721	573.478	565.179	556.610
67.5	519.243	517.956	517.322	516.130	513.153	511.481	507.504	502.874	495.170	490.386
70.0	446.621	445.911	445.603	443.375	440.281	438.399	436.305	433.307	427.851	427.102
72.5	377.593	377.189	376.056	372.309	367.795	366.623	366.623	365.547	364.260	364.567
75.0	311.657	312.426	311.657	309.371	306.624	305.163	304.318	303.530	303.473	303.780
77.5	245.971	247.969	247.700	247.374	246.221	246.298	246.202	246.740	247.393	248.507
80.0	180.535	183.724	184.070	186.087	186.395	187.913	188.719	190.564	192.024	194.445
82.5	135.983	138.000	137.251	138.538	137.788	138.422	137.981	138.787	138.826	140.939
85.0	97.981	100.133	100.267	101.631	101.420	102.803	103.149	104.609	105.359	107.203
87.5	60.095	62.208	63.400	64.725	65.167	67.280	68.491	70.508	72.103	74.331
90.0	22.209	24.246	26.570	27.800	28.972	31.719	33.871	36.388	38.885	41.383
92.5	55.619	57.636	59.865	60.960	61.882	64.418	66.205	68.318	70.297	72.391
95.0	89.009	91.007	93.121	94.100	94.792	97.021	98.500	100.210	101.689	103.341
97.5	122.380	124.302	126.357	127.260	127.741	129.662	130.872	132.159	133.197	135.137
100.0	161.400	164.570	167.913	170.238	172.274	175.482	178.134	180.612	183.033	185.876
102.5	218.537	221.149	223.839	225.587	227.278	229.679	231.678	233.214	234.790	236.961
105.0	275.788	277.844	279.957	281.187	282.436	284.242	285.644	286.393	287.085	288.507
107.5	333.155	334.731	336.325	337.132	337.728	340.072	341.858	342.877	343.856	345.470
110.0	393.250	394.903	396.785	397.977	398.611	400.320	401.761	402.126	402.607	403.625
112.5	456.765	457.726	459.263	460.185	459.916	461.088	462.068	462.145	462.222	462.798
115.0	520.607	520.895	522.182	522.739	522.067	522.413	523.085	523.085	522.470	522.182
117.5	584.852	584.448	585.236	585.620	585.005	584.583	584.775	584.621	583.603	582.700
120.0	649.827	649.097	649.270	649.346	648.712	647.829	647.560	646.926	645.927	644.870
122.5	715.493	714.494	713.937	713.995	712.612	711.997	711.286	710.517	709.576	707.501
125.0	781.698	780.526	779.296	779.258	777.952	776.895	775.665	772.918	771.516	769.095
127.5	848.517	847.192	845.251	844.022	842.408	840.198	838.604	836.683	834.685	831.534
130.0	915.279	913.204	910.610	908.420	907.018	904.309	902.407	901.100	899.237	897.412

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CANDELA TABULATION - (Cont.)

132.5	981.925	979.754	977.218	973.203	971.993	969.745	967.536	966.248	964.846	961.272
135.0	1048.841	1047.169	1044.960	1041.348	1038.485	1036.449	1032.799	1029.417	1026.632	1023.442
137.5	1116.275	1115.372	1112.183	1108.187	1103.825	1099.983	1096.544	1092.855	1089.820	1087.380
140.0	1181.058	1178.752	1175.928	1172.624	1168.589	1165.246	1161.596	1158.330	1155.237	1152.797
142.5	1244.746	1242.536	1239.808	1237.176	1234.256	1231.124	1228.511	1225.380	1222.709	1218.540
145.0	1308.952	1307.377	1305.071	1303.035	1300.076	1297.751	1295.235	1290.432	1284.687	1279.577
147.5	1373.985	1372.294	1370.623	1366.684	1362.477	1358.192	1354.408	1350.450	1346.819	1342.016
150.0	1432.889	1429.527	1426.741	1423.167	1419.786	1416.558	1413.773	1411.621	1408.451	1406.088
152.5	1487.393	1485.491	1482.628	1480.650	1477.557	1474.848	1472.754	1471.351	1471.044	1469.526
155.0	1542.685	1540.918	1539.381	1537.325	1536.115	1534.097	1532.099	1529.563	1528.488	1524.741
157.5	1598.765	1596.863	1595.710	1594.961	1591.849	1588.083	1584.452	1579.860	1576.056	1572.771
160.0	1645.296	1643.356	1639.879	1636.958	1634.576	1631.445	1628.505	1626.123	1623.837	1621.185
162.5	1682.856	1681.108	1679.801	1677.707	1675.613	1674.018	1672.232	1670.925	1669.273	1668.120
165.0	1720.761	1719.167	1717.975	1717.188	1716.285	1715.555	1714.613	1714.133	1714.075	1714.268
167.5	1755.977	1756.630	1756.572	1755.862	1755.477	1755.439	1755.746	1755.900	1753.095	1750.386
170.0	1785.736	1784.891	1784.180	1783.565	1782.970	1781.164	1779.339	1777.667	1776.149	1774.805
172.5	1800.164	1799.530	1798.973	1798.493	1798.109	1797.801	1797.590	1797.456	1797.398	1797.187
175.0	1811.749	1812.076	1812.441	1812.844	1813.286	1813.094	1812.940	1812.844	1812.825	1812.844
177.5	1823.296	1823.449	1823.641	1823.834	1824.045	1824.275	1824.544	1824.813	1825.102	1825.409
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1932.305	1932.266	1932.266	1932.285	1932.324	1932.401	1932.497	1932.631	1932.766	1932.939
5.0	1915.744	1915.244	1914.822	1914.495	1914.226	1914.034	1913.919	1913.899	1913.938	1914.053
7.5	1896.224	1895.053	1893.996	1893.074	1892.267	1891.614	1891.076	1890.672	1890.422	1890.288
10.0	1873.996	1872.421	1870.538	1868.405	1866.523	1864.851	1863.430	1862.238	1861.278	1860.586
12.5	1847.656	1844.429	1841.470	1838.819	1836.052	1833.401	1831.057	1829.040	1827.330	1825.947
15.0	1812.748	1812.134	1810.078	1806.139	1802.528	1798.973	1795.112	1791.692	1788.753	1786.274
17.5	1766.812	1765.141	1763.450	1762.413	1762.029	1759.070	1754.305	1749.483	1745.276	1741.702
20.0	1716.784	1714.056	1711.693	1709.330	1707.736	1706.890	1706.852	1703.605	1698.130	1693.384
22.5	1665.277	1660.877	1657.266	1654.288	1651.579	1649.734	1648.716	1648.582	1648.486	1642.568
25.0	1612.655	1607.026	1602.127	1598.054	1594.577	1591.618	1589.620	1588.621	1588.583	1588.967
27.5	1558.112	1551.331	1546.797	1541.321	1536.787	1532.330	1528.526	1526.086	1524.991	1524.722
30.0	1491.985	1490.102	1489.065	1482.782	1475.597	1468.527	1465.146	1461.361	1458.556	1456.808
32.5	1427.067	1422.341	1418.191	1415.406	1415.521	1408.240	1402.111	1396.194	1391.487	1388.086
35.0	1359.614	1353.793	1350.008	1347.338	1344.782	1342.804	1338.193	1330.834	1324.879	1320.537
37.5	1293.871	1288.549	1283.592	1278.040	1271.930	1271.028	1269.164	1265.859	1258.540	1252.891
40.0	1228.166	1223.170	1215.524	1209.645	1204.996	1201.000	1197.580	1195.486	1193.180	1187.263
42.5	1155.621	1150.953	1148.589	1142.518	1137.773	1132.221	1128.436	1126.131	1124.997	1122.077
45.0	1084.479	1081.040	1078.139	1074.931	1072.568	1066.938	1062.289	1058.331	1055.469	1054.508
47.5	1017.237	1013.049	1008.380	1005.326	1003.673	1002.674	998.025	992.780	989.072	986.671
50.0	951.762	946.018	941.907	937.738	936.124	934.126	932.762	928.689	922.387	918.199
52.5	885.327	881.024	877.412	874.108	869.958	866.096	863.407	861.024	857.643	852.917
55.0	821.236	817.298	812.610	808.844	804.310	800.410	796.895	794.416	793.206	789.421
57.5	759.220	753.053	746.770	741.410	738.548	738.048	733.706	730.210	727.443	726.559
60.0	694.936	688.693	681.680	676.109	672.766	671.383	671.114	668.981	665.158	663.025
62.5	623.468	619.818	616.148	611.749	609.097	607.003	605.985	606.273	604.698	601.163
65.0	555.611	551.980	548.906	546.889	546.312	544.007	544.122	542.931	541.913	540.606
67.5	489.599	486.602	484.719	483.470	482.682	482.970	484.200	481.434	480.166	478.360
70.0	425.834	423.951	422.798	422.164	422.241	421.569	422.414	422.145	420.493	416.843
72.5	363.837	362.454	361.685	362.069	362.838	363.779	363.875	362.358	359.572	360.110
75.0	304.126	302.128	302.243	302.493	304.683	306.086	305.874	304.894	303.530	303.626
77.5	248.085	246.202	245.318	245.087	248.277	249.026	249.794	248.680	249.372	250.390

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80.0	194.253	194.003	193.715	195.405	196.769	196.885	196.174	195.962	198.306	199.882
82.5	141.400	142.611	143.149	146.530	148.336	149.950	149.604	150.641	152.005	153.504
85.0	106.454	106.377	105.455	107.299	107.184	107.222	105.359	107.702	110.066	113.197
87.5	75.196	76.214	76.829	79.403	80.345	81.478	81.055	82.439	83.188	84.321
90.0	44.168	46.186	48.472	51.450	53.794	55.945	57.828	60.095	62.612	64.360
92.5	74.773	76.368	78.039	80.268	82.016	83.380	84.725	86.320	87.722	88.856
95.0	105.320	106.569	107.664	109.105	110.296	110.988	111.814	114.696	117.232	119.806
97.5	138.922	141.957	144.590	147.567	150.142	152.351	154.157	156.040	157.519	159.056
100.0	188.604	190.564	192.101	194.156	195.905	197.096	198.076	199.382	201.668	203.186
102.5	238.978	239.977	240.496	241.322	244.319	245.721	247.547	248.123	250.102	250.275
105.0	291.254	292.656	293.579	294.751	297.421	298.266	299.265	299.669	300.418	301.705
107.5	347.026	348.813	349.217	349.889	351.541	352.732	352.867	352.771	353.021	354.961
110.0	404.739	405.796	406.391	406.199	406.776	407.563	408.678	408.639	408.313	407.602
112.5	463.336	463.528	463.951	463.278	463.701	465.065	466.563	465.641	464.066	463.893
115.0	522.297	522.394	522.451	522.201	522.355	522.643	522.451	522.297	522.509	522.201
117.5	582.354	582.527	583.103	582.220	580.548	579.684	579.607	580.721	580.491	578.031
120.0	643.967	643.410	642.430	641.277	640.086	639.337	639.567	637.992	636.071	635.053
122.5	704.927	703.140	702.141	701.776	701.353	701.488	697.895	695.129	693.688	693.937
125.0	766.674	764.753	763.792	763.639	762.716	759.431	756.530	754.571	754.013	751.996
127.5	830.151	828.268	825.501	823.907	821.255	819.238	817.451	816.241	813.820	810.247
130.0	895.817	891.091	886.980	882.676	881.850	880.755	880.313	877.335	873.205	871.168
132.5	957.334	953.492	949.188	946.133	944.424	943.943	940.427	936.393	933.530	932.282
135.0	1020.618	1017.333	1014.509	1011.281	1008.784	1003.808	999.908	997.103	995.393	995.066
137.5	1084.882	1083.019	1080.925	1075.065	1070.493	1065.133	1061.770	1059.926	1059.350	1057.525
140.0	1150.991	1148.013	1143.114	1138.330	1134.046	1130.415	1127.072	1124.978	1123.134	1118.138
142.5	1213.411	1208.896	1205.073	1201.365	1196.658	1195.985	1194.621	1192.009	1185.534	1180.789
145.0	1274.966	1271.373	1268.203	1266.032	1264.246	1262.920	1259.078	1253.141	1248.434	1245.091
147.5	1338.020	1334.811	1332.640	1331.353	1330.681	1324.917	1319.499	1314.658	1311.142	1309.029
150.0	1402.937	1400.094	1398.115	1393.581	1387.798	1381.746	1378.672	1375.445	1373.351	1372.448
152.5	1468.085	1461.630	1456.462	1450.333	1445.204	1441.073	1437.922	1435.732	1434.579	1434.387
155.0	1521.456	1516.365	1511.600	1507.546	1503.819	1500.323	1497.825	1496.346	1495.923	1496.327
157.5	1570.024	1567.526	1565.528	1563.492	1560.764	1558.766	1557.555	1557.133	1556.460	1551.158
160.0	1619.245	1618.035	1617.112	1615.998	1615.403	1615.364	1615.902	1613.251	1608.275	1603.991
162.5	1667.467	1666.833	1666.449	1666.699	1667.602	1666.026	1662.587	1658.706	1655.440	1652.770
165.0	1713.730	1713.653	1712.154	1708.850	1705.949	1703.278	1700.646	1698.437	1696.650	1695.286
167.5	1747.908	1745.660	1743.643	1741.875	1739.762	1737.668	1735.920	1734.498	1733.441	1732.711
170.0	1773.613	1772.595	1771.366	1769.982	1768.772	1767.792	1767.005	1766.428	1766.082	1765.929
172.5	1796.303	1795.534	1794.920	1794.401	1794.036	1793.805	1793.690	1793.728	1793.882	1794.170
175.0	1812.921	1813.056	1813.248	1813.517	1813.824	1814.189	1814.612	1815.092	1815.611	1816.206
177.5	1825.755	1826.101	1826.446	1826.831	1827.234	1827.638	1828.060	1828.483	1828.925	1829.386
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

Vert. 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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1933.150	1933.361	1933.246	1933.630	1934.014	1934.399	1934.783	1935.167	1935.551	1934.898
5.0	1914.245	1914.533	1914.879	1915.302	1915.264	1916.070	1916.858	1917.665	1918.472	1917.223
7.5	1890.307	1890.461	1890.730	1891.172	1891.729	1891.825	1892.997	1894.169	1895.341	1893.400
10.0	1860.125	1859.914	1859.933	1860.221	1860.740	1860.452	1862.027	1863.622	1865.216	1862.757
12.5	1824.909	1824.199	1823.834	1823.814	1824.141	1824.813	1825.140	1827.042	1828.944	1825.812
15.0	1784.295	1782.816	1781.817	1781.317	1781.317	1781.836	1781.855	1784.103	1786.370	1782.912
17.5	1738.744	1736.438	1734.767	1733.749	1733.403	1733.710	1733.364	1735.977	1738.590	1734.421
20.0	1689.407	1686.180	1683.721	1682.068	1681.223	1681.204	1680.339	1683.202	1686.064	1681.742
22.5	1637.535	1633.404	1630.196	1627.929	1626.603	1626.257	1624.913	1628.006	1631.099	1626.046
25.0	1583.376	1577.824	1573.271	1569.755	1567.334	1566.028	1565.874	1566.297	1569.198	1564.472

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CANDELA TABULATION - (Cont.)

27.5	1526.028	1518.382	1512.465	1508.046	1505.107	1503.666	1503.685	1504.453	1508.046	1502.628
30.0	1455.693	1454.982	1447.970	1442.475	1438.556	1436.232	1435.559	1435.713	1439.286	1434.406
32.5	1386.127	1385.800	1383.322	1377.462	1373.408	1371.180	1370.757	1371.257	1375.329	1369.124
35.0	1317.809	1316.541	1317.098	1311.776	1306.781	1303.726	1302.670	1302.612	1306.704	1300.825
37.5	1248.991	1247.512	1248.088	1247.550	1242.133	1238.694	1237.310	1236.965	1240.942	1233.718
40.0	1183.229	1180.731	1179.771	1180.846	1175.409	1170.818	1168.647	1167.705	1171.798	1165.246
42.5	1116.044	1111.914	1109.666	1109.186	1106.688	1101.655	1099.445	1098.677	1103.441	1096.775
45.0	1051.127	1043.000	1041.559	1040.387	1041.310	1035.546	1032.203	1030.013	1033.644	1027.343
47.5	985.787	980.388	975.739	973.664	974.394	970.782	967.478	965.845	970.341	963.309
50.0	916.489	915.586	909.919	907.536	908.209	907.652	903.598	901.004	905.020	898.430
52.5	849.612	848.517	846.269	843.541	843.637	845.482	840.218	836.490	839.968	832.840
55.0	784.983	783.581	784.560	781.141	779.700	781.294	775.877	769.940	772.034	766.405
57.5	722.198	720.930	720.584	719.682	716.031	715.705	712.515	706.713	709.595	703.870
60.0	662.776	659.644	657.243	657.166	652.670	650.979	649.961	643.909	647.329	640.759
62.5	599.376	600.010	594.400	591.691	591.288	588.502	588.425	585.505	587.830	582.988
65.0	537.225	535.112	534.785	532.307	533.248	529.521	529.675	526.178	526.678	522.682
67.5	477.879	474.863	475.132	474.210	473.499	472.231	469.868	467.774	469.618	464.834
70.0	416.785	417.361	416.190	418.668	416.670	415.191	410.330	408.236	408.678	405.258
72.5	359.629	359.668	360.974	360.225	357.228	355.614	351.810	349.370	350.677	348.064
75.0	304.491	305.548	305.029	304.702	302.013	299.611	297.306	296.710	294.366	292.138
77.5	251.178	251.600	251.370	249.218	248.872	248.123	247.316	244.684	244.799	239.919
80.0	201.034	199.267	199.593	200.151	199.843	199.651	199.132	196.808	193.849	190.468
82.5	154.349	154.099	153.273	152.639	154.906	155.252	154.215	151.083	147.183	145.627
85.0	114.062	114.119	113.831	114.004	115.253	115.599	114.177	112.525	106.857	105.858
87.5	83.764	82.746	81.651	82.458	84.033	83.246	83.476	84.072	76.176	77.732
90.0	66.185	67.569	68.625	69.682	70.393	70.700	71.257	71.430	69.701	71.718
92.5	89.605	90.162	89.855	90.988	91.853	92.025	91.488	91.276	84.110	88.241
95.0	121.574	122.457	123.091	123.841	124.744	124.033	122.707	119.633	116.886	119.460
97.5	160.632	161.458	162.015	162.341	162.687	161.573	160.324	158.134	159.498	158.999
100.0	205.050	204.589	205.357	205.415	205.069	204.089	202.917	200.573	200.381	200.439
102.5	252.119	253.080	253.675	252.196	252.061	251.274	248.795	247.969	247.335	246.471
105.0	302.531	303.261	303.857	304.260	301.974	300.111	297.671	297.133	295.711	296.998
107.5	354.711	355.019	356.402	355.614	352.655	352.809	350.715	349.082	348.179	350.081
110.0	408.005	409.120	408.428	410.484	408.274	407.755	405.316	404.374	405.162	404.758
112.5	464.239	462.836	463.547	463.028	462.779	461.491	460.435	458.859	459.955	459.032
115.0	519.838	519.896	520.242	517.033	517.936	515.151	515.477	512.884	514.286	512.173
117.5	576.956	578.262	575.457	574.573	573.094	569.674	569.751	566.447	567.715	566.043
120.0	635.495	633.362	632.286	633.746	629.424	627.003	625.754	621.316	625.639	620.605
122.5	690.133	689.461	690.057	690.037	686.579	685.888	683.870	680.239	684.716	679.548
125.0	748.884	747.462	747.866	745.118	744.177	745.752	743.139	741.026	746.060	739.528
127.5	808.383	808.422	806.597	803.273	802.927	804.618	800.622	798.124	802.255	796.837
130.0	870.438	870.419	865.097	862.676	862.926	862.311	859.161	857.393	861.793	855.357
132.5	933.261	929.861	925.942	924.001	924.539	921.580	918.852	917.392	921.945	916.393
135.0	992.665	986.844	987.189	987.036	988.227	983.847	982.233	982.079	987.324	981.118
137.5	1052.837	1049.955	1049.206	1050.512	1049.744	1045.882	1044.422	1044.191	1048.725	1043.250
140.0	1114.565	1112.605	1112.490	1114.315	1109.916	1106.189	1104.632	1104.133	1108.225	1103.384
142.5	1177.811	1176.831	1177.523	1176.889	1171.605	1168.455	1167.417	1167.475	1171.663	1166.668
145.0	1243.112	1242.555	1243.785	1238.828	1233.968	1230.836	1229.530	1229.126	1232.700	1228.396
147.5	1308.107	1308.452	1306.627	1301.363	1297.579	1295.408	1294.889	1295.177	1299.115	1294.754
150.0	1372.294	1372.640	1367.395	1363.514	1361.055	1360.056	1360.555	1361.804	1366.127	1361.439
152.5	1435.194	1430.199	1425.934	1422.975	1421.342	1421.054	1422.072	1423.763	1427.990	1423.398
155.0	1491.351	1486.567	1482.801	1480.093	1478.479	1477.979	1478.632	1479.843	1483.455	1479.535
157.5	1546.451	1542.666	1539.803	1537.882	1536.922	1536.960	1535.942	1539.534	1543.146	1539.093
160.0	1600.436	1597.632	1595.595	1594.346	1593.904	1594.289	1593.789	1597.209	1600.648	1596.844
162.5	1650.695	1649.254	1648.447	1648.255	1648.716	1649.811	1650.292	1653.615	1656.939	1653.231
165.0	1694.364	1693.884	1693.845	1694.268	1695.132	1696.458	1697.342	1700.243	1703.144	1700.070

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167.5	1732.327	1732.288	1732.596	1733.249	1734.248	1735.574	1736.592	1739.070	1741.549	1738.955
170.0	1766.005	1766.294	1766.812	1767.542	1768.484	1768.695	1770.616	1772.557	1774.497	1772.442
172.5	1794.593	1795.150	1795.842	1796.668	1797.628	1798.166	1799.665	1801.183	1802.700	1801.183
175.0	1816.840	1817.513	1818.262	1819.050	1819.569	1820.568	1821.586	1822.623	1823.641	1822.642
177.5	1829.847	1830.327	1830.769	1831.269	1831.787	1832.287	1832.806	1833.324	1833.843	1833.363
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

Vert. Horizontal Angles
Angles

	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1934.245	1933.611	1932.958	1932.324	1931.690	1931.555	1931.094	1930.652	1930.230	1929.865
5.0	1915.974	1914.726	1913.496	1913.073	1912.209	1911.402	1910.691	1910.057	1909.481	1909.000
7.5	1891.479	1889.558	1888.713	1887.406	1886.273	1885.293	1884.467	1883.794	1883.295	1882.949
10.0	1860.298	1857.858	1857.243	1855.841	1854.669	1853.727	1853.036	1852.575	1852.325	1852.325
12.5	1822.662	1821.125	1819.261	1817.763	1816.648	1815.918	1815.572	1815.630	1816.053	1816.860
15.0	1779.454	1778.186	1776.438	1775.150	1774.324	1773.978	1774.055	1774.574	1775.535	1776.899
17.5	1730.252	1729.080	1727.274	1726.160	1725.756	1726.064	1727.082	1728.792	1731.213	1734.344
20.0	1677.438	1676.804	1675.306	1674.576	1674.576	1675.325	1676.747	1678.860	1681.626	1685.027
22.5	1620.993	1620.475	1619.014	1618.592	1619.226	1620.916	1623.664	1627.468	1632.002	1631.156
25.0	1562.205	1560.476	1559.842	1560.264	1561.686	1564.049	1567.296	1570.523	1568.083	1567.181
27.5	1499.996	1498.113	1497.671	1498.690	1501.168	1505.087	1509.756	1507.854	1506.336	1505.203
30.0	1432.889	1432.101	1432.812	1434.944	1438.383	1443.071	1441.150	1439.690	1439.651	1440.804
32.5	1366.569	1365.070	1365.570	1368.144	1372.813	1374.196	1373.216	1373.062	1373.504	1375.445
35.0	1299.019	1298.155	1299.135	1301.901	1304.860	1301.959	1300.883	1302.266	1305.263	1309.605
37.5	1231.009	1229.587	1230.625	1234.179	1234.044	1232.988	1233.487	1234.774	1237.829	1242.594
40.0	1163.575	1162.941	1164.420	1166.591	1163.344	1162.076	1163.383	1167.014	1172.124	1173.008
42.5	1095.526	1095.545	1098.177	1098.100	1096.390	1096.967	1098.696	1102.039	1101.943	1101.482
45.0	1026.977	1027.919	1031.569	1029.014	1028.130	1026.958	1033.125	1035.219	1034.489	1033.932
47.5	962.368	963.002	964.116	961.561	961.945	964.865	967.574	965.326	965.576	967.843
50.0	898.449	899.871	898.392	895.836	896.009	899.679	898.680	898.526	899.352	902.061
52.5	833.128	835.280	832.571	831.784	833.647	833.321	831.303	831.803	834.665	836.087
55.0	768.711	770.747	767.635	767.865	770.420	767.961	767.519	768.922	769.364	768.672
57.5	706.579	706.733	704.523	705.887	705.119	704.158	704.024	705.964	703.947	703.870
60.0	643.717	642.680	642.257	643.679	640.816	641.489	643.314	641.028	640.298	641.373
62.5	583.199	580.567	581.490	580.183	578.704	579.703	577.993	577.647	578.281	578.070
65.0	523.027	520.357	521.452	517.783	518.301	516.803	515.842	517.110	515.804	515.208
67.5	463.297	461.588	459.955	458.072	456.919	455.670	455.901	455.228	454.825	454.690
70.0	403.855	404.105	400.436	399.879	397.708	398.073	396.094	395.172	395.959	395.306
72.5	346.104	345.240	342.684	342.070	342.300	340.148	338.900	338.035	336.978	336.575
75.0	290.255	288.833	287.508	286.874	285.817	284.972	284.395	282.147	280.764	279.957
77.5	237.979	237.307	234.924	233.157	233.099	232.254	231.120	228.757	228.085	226.586
80.0	188.451	187.817	186.318	184.858	183.820	182.514	182.380	180.766	178.499	176.212
82.5	144.071	143.859	142.841	141.285	140.094	138.922	137.404	136.098	135.060	133.850
85.0	105.762	105.897	105.224	103.437	102.189	101.497	100.729	99.364	96.905	94.331
87.5	77.540	76.906	76.944	75.407	74.120	75.484	76.060	77.002	76.733	76.348
90.0	71.315	71.277	71.334	70.546	69.836	68.817	67.338	66.089	64.091	62.016
92.5	89.547	90.757	90.489	89.528	89.586	90.815	91.468	90.873	89.067	88.260
95.0	120.728	121.324	120.863	121.189	121.746	122.457	122.284	120.767	118.096	116.482
97.5	158.730	159.248	159.325	158.096	159.383	160.267	159.248	157.750	156.885	156.194
100.0	200.535	200.631	201.822	202.475	202.533	203.109	203.436	201.073	199.862	198.114
102.5	246.163	247.009	248.469	249.468	250.121	250.332	249.487	247.854	247.643	247.585
105.0	295.346	295.865	298.093	300.380	300.130	299.765	298.151	297.210	297.997	299.688
107.5	349.005	349.293	349.947	351.215	352.617	350.177	349.332	349.140	349.447	351.080
110.0	404.528	404.278	402.972	404.336	402.933	404.220	403.164	402.491	403.817	405.277
112.5	459.609	457.880	457.553	457.053	456.343	456.688	459.705	459.052	459.244	461.011

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115.0	514.017	512.211	514.055	511.078	511.577	511.885	513.652	516.169	515.861	515.420
117.5	568.867	567.599	569.713	569.059	568.214	570.808	570.616	571.384	572.076	571.634
120.0	624.313	624.524	625.524	628.213	626.234	627.675	630.192	628.386	627.618	628.021
122.5	682.257	682.891	682.122	684.466	684.793	684.754	685.119	686.848	684.908	686.003
125.0	740.162	741.545	739.989	741.468	744.715	742.044	741.583	744.138	745.829	746.501
127.5	797.836	800.065	797.759	797.260	799.219	800.929	800.775	802.697	807.346	810.343
130.0	855.280	856.913	857.067	856.721	858.738	862.869	862.638	864.002	866.903	870.918
132.5	916.874	918.603	920.524	918.795	919.390	922.311	926.114	926.249	927.017	928.458
135.0	980.331	980.984	984.384	982.425	982.233	981.964	986.882	988.150	987.362	988.534
137.5	1042.597	1043.173	1046.228	1046.401	1044.480	1044.364	1046.209	1049.821	1050.916	1051.703
140.0	1103.115	1103.902	1106.823	1110.338	1107.591	1106.726	1108.014	1111.453	1116.640	1118.561
142.5	1165.823	1166.053	1168.435	1172.950	1173.008	1171.970	1172.835	1175.698	1180.270	1186.495
145.0	1228.108	1228.780	1231.336	1235.735	1240.384	1239.001	1239.385	1241.095	1244.265	1248.895
147.5	1294.043	1294.159	1295.945	1299.346	1304.264	1305.763	1305.167	1305.744	1307.127	1309.701
150.0	1359.864	1358.999	1359.633	1361.708	1365.205	1370.046	1369.124	1368.548	1368.893	1370.450
152.5	1421.342	1419.978	1419.921	1421.208	1423.840	1427.817	1433.446	1431.140	1430.737	1431.256
155.0	1477.998	1477.019	1477.134	1478.344	1480.592	1483.839	1488.027	1492.350	1491.447	1491.677
157.5	1535.058	1535.634	1535.173	1535.711	1537.210	1539.688	1543.089	1547.411	1552.637	1552.772
160.0	1593.040	1593.174	1592.387	1592.425	1593.270	1594.884	1597.266	1600.360	1604.164	1608.659
162.5	1649.523	1648.697	1647.275	1646.507	1646.430	1647.026	1648.294	1650.253	1652.866	1656.170
165.0	1696.996	1695.939	1694.441	1693.423	1692.846	1692.750	1693.096	1693.903	1695.152	1696.842
167.5	1736.361	1735.228	1733.787	1732.673	1731.885	1731.462	1731.366	1731.616	1732.212	1733.153
170.0	1770.405	1768.369	1768.061	1767.024	1766.236	1765.660	1765.333	1765.237	1765.372	1765.737
172.5	1799.665	1798.147	1797.590	1796.649	1795.823	1795.131	1794.593	1794.170	1793.901	1793.767
175.0	1821.643	1820.644	1819.645	1819.146	1818.397	1817.686	1817.033	1816.437	1815.880	1815.400
177.5	1832.863	1832.383	1831.903	1831.422	1830.942	1830.519	1830.078	1829.636	1829.213	1828.790
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

Vert. 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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1929.500	1929.192	1928.904	1928.654	1928.424	1928.251	1928.097	1927.982	1927.886	1927.847
5.0	1908.578	1908.251	1908.001	1907.828	1907.732	1907.713	1907.771	1907.905	1908.136	1908.424
7.5	1882.776	1882.776	1882.930	1883.256	1883.756	1884.409	1885.235	1886.215	1886.734	1887.156
10.0	1852.556	1852.997	1853.670	1854.573	1855.687	1856.782	1857.896	1859.222	1860.759	1862.507
12.5	1818.070	1819.665	1821.624	1823.565	1824.986	1826.677	1828.617	1830.808	1833.247	1835.764
15.0	1778.666	1780.837	1783.277	1786.082	1789.348	1790.885	1791.058	1791.730	1791.327	1791.135
17.5	1738.167	1741.299	1742.375	1740.915	1740.089	1739.896	1740.242	1741.068	1742.471	1744.430
20.0	1686.852	1686.103	1686.122	1686.910	1688.447	1689.100	1689.657	1690.906	1692.827	1695.152
22.5	1629.235	1628.217	1628.083	1628.832	1630.638	1633.327	1636.805	1640.724	1643.183	1646.123
25.0	1567.353	1568.545	1570.716	1572.541	1574.481	1577.324	1581.090	1585.835	1591.368	1594.097
27.5	1505.203	1506.355	1508.776	1512.484	1517.172	1520.860	1525.490	1525.740	1527.027	1529.198
30.0	1443.090	1445.107	1449.027	1452.908	1455.828	1456.558	1458.345	1460.496	1461.937	1464.435
32.5	1378.788	1383.110	1387.894	1387.875	1387.875	1388.624	1390.526	1393.581	1397.615	1400.728
35.0	1314.812	1317.098	1317.040	1317.847	1319.519	1322.400	1324.610	1327.933	1332.218	1337.424
37.5	1244.380	1245.168	1245.149	1248.684	1251.431	1254.909	1259.404	1263.842	1267.147	1269.798
40.0	1172.777	1174.103	1176.812	1180.558	1184.650	1188.915	1192.143	1194.910	1197.811	1200.808
42.5	1102.769	1105.190	1108.705	1111.722	1117.485	1120.117	1122.461	1125.650	1129.262	1133.066
45.0	1034.778	1037.890	1042.347	1044.480	1047.246	1050.570	1054.835	1058.255	1062.289	1066.497
47.5	971.032	972.896	972.819	975.201	978.717	982.790	987.458	992.838	997.084	998.659
50.0	904.463	904.578	905.077	906.076	911.898	917.046	921.677	923.502	925.634	927.402
52.5	835.933	837.009	838.450	841.293	844.329	848.652	850.477	850.765	854.627	856.951
55.0	769.575	771.708	774.666	774.935	776.203	778.624	781.256	782.908	784.925	786.847
57.5	705.426	708.001	708.212	708.769	709.000	711.132	713.611	715.974	717.088	719.086
60.0	642.142	641.719	642.372	643.736	644.928	646.253	647.733	648.943	649.865	651.172

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CANDELA TABULATION - (Cont.)

62.5	577.628	577.762	578.762	580.529	581.394	581.144	581.682	582.969	583.910	584.813
65.0	515.535	516.130	516.457	516.534	516.995	517.418	517.091	518.590	519.089	519.665
67.5	455.536	454.575	453.980	454.037	454.345	455.094	454.537	455.017	455.574	455.497
70.0	394.326	393.327	393.558	393.519	393.462	393.539	393.174	392.444	393.154	392.367
72.5	335.691	335.403	335.173	334.539	333.866	333.290	332.291	331.157	331.465	330.216
75.0	279.823	278.997	278.785	277.440	275.846	274.501	273.271	271.350	271.965	271.811
77.5	226.413	224.838	223.877	221.841	221.207	220.631	220.189	219.305	218.517	217.749
80.0	175.617	175.617	175.175	174.310	172.754	171.140	169.565	167.932	165.953	164.186
82.5	133.005	131.814	129.835	127.625	125.089	122.496	119.633	117.097	116.060	116.021
85.0	92.294	93.082	93.370	93.293	93.197	93.044	92.448	92.006	91.257	90.316
87.5	76.329	75.561	74.715	73.582	72.372	71.161	69.701	68.087	66.608	64.783
90.0	60.710	58.270	56.195	53.986	51.661	49.336	47.012	44.168	41.978	39.231
92.5	87.607	86.377	85.013	83.361	81.478	80.229	78.558	76.483	74.139	72.391
95.0	115.234	114.676	113.908	112.736	111.449	111.161	110.123	108.682	106.338	105.570
97.5	155.348	154.695	153.043	150.680	148.259	146.664	144.417	141.516	138.768	138.903
100.0	197.499	198.037	197.423	196.116	194.752	193.791	192.696	190.583	187.778	186.491
102.5	247.258	245.914	244.223	242.590	241.821	241.821	241.649	240.208	238.479	237.633
105.0	298.881	297.094	295.442	294.270	293.348	293.214	292.426	290.985	289.582	289.256
107.5	350.965	349.447	348.064	347.622	347.814	348.083	347.007	345.413	344.183	343.991
110.0	405.162	402.876	402.280	402.856	403.721	403.855	402.837	401.108	400.666	401.761
112.5	461.607	459.570	458.610	459.282	460.492	460.608	458.975	457.822	458.610	460.627
115.0	515.496	515.861	516.707	517.552	518.167	517.975	516.745	516.246	518.032	520.645
117.5	570.808	572.057	574.035	576.879	577.494	576.879	576.264	576.591	578.589	581.317
120.0	629.923	630.634	631.998	633.823	635.341	636.916	637.300	638.146	640.125	642.411
122.5	688.385	690.671	691.574	692.631	693.207	695.090	697.261	699.874	702.813	704.658
125.0	748.077	749.806	752.131	752.323	753.706	755.896	758.259	761.564	764.657	766.328
127.5	809.882	810.151	810.343	812.783	815.914	818.950	821.870	824.387	827.730	829.805
130.0	872.302	870.822	871.648	872.840	877.354	882.100	888.209	890.130	891.975	893.646
132.5	931.283	934.587	934.971	936.585	939.717	944.539	949.303	953.741	956.873	958.986
135.0	990.993	994.759	999.255	1001.214	1004.230	1008.284	1012.722	1015.527	1018.832	1022.847
137.5	1053.740	1056.756	1060.925	1064.076	1071.146	1074.758	1076.929	1079.484	1082.154	1085.766
140.0	1119.944	1122.365	1125.727	1130.376	1135.352	1140.175	1142.999	1144.209	1146.764	1150.357
142.5	1188.781	1189.991	1190.702	1194.429	1197.599	1200.846	1204.458	1209.050	1213.334	1217.042
145.0	1254.544	1257.060	1257.291	1258.482	1260.269	1262.824	1266.378	1270.874	1276.330	1282.785
147.5	1313.409	1318.058	1324.456	1323.803	1325.052	1327.261	1330.450	1334.523	1339.634	1344.283
150.0	1373.159	1375.752	1381.516	1387.222	1391.813	1393.427	1396.098	1399.248	1401.977	1405.877
152.5	1432.927	1435.751	1439.651	1444.493	1450.295	1455.117	1460.919	1462.206	1464.396	1466.875
155.0	1492.945	1495.212	1498.459	1501.764	1505.260	1509.448	1514.213	1519.189	1524.856	1527.815
157.5	1552.791	1553.578	1555.115	1557.363	1559.861	1562.877	1566.623	1570.773	1573.655	1576.940
160.0	1611.176	1610.926	1611.407	1612.598	1614.500	1615.652	1616.747	1618.477	1620.820	1622.991
162.5	1660.128	1663.548	1665.123	1664.297	1664.047	1664.393	1664.912	1665.469	1666.564	1668.197
165.0	1698.994	1701.568	1704.104	1706.833	1709.945	1711.290	1711.271	1711.712	1711.828	1712.250
167.5	1734.421	1736.016	1737.956	1740.012	1741.933	1744.142	1746.640	1749.387	1752.423	1755.708
170.0	1766.351	1767.197	1768.273	1769.579	1771.116	1772.480	1773.594	1774.881	1776.361	1778.013
172.5	1793.786	1793.921	1794.209	1794.631	1795.189	1795.899	1796.725	1797.705	1798.013	1798.205
175.0	1814.958	1814.593	1814.266	1814.016	1813.824	1813.690	1813.613	1813.594	1813.651	1813.767
177.5	1828.387	1827.983	1827.599	1827.234	1826.869	1826.543	1826.216	1825.889	1825.601	1825.332
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

Vert. 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	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1927.828	1927.847	1927.905	1928.001	1928.116	1928.270	1928.462	1928.693	1928.942	1929.231
5.0	1908.789	1909.250	1909.769	1909.961	1910.211	1910.537	1910.922	1911.383	1911.901	1912.478
7.5	1887.714	1888.367	1889.116	1889.981	1890.960	1892.036	1893.208	1894.015	1894.822	1895.706

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CANDELA TABULATION - (Cont.)

10.0	1864.486	1866.657	1868.847	1870.058	1871.306	1872.671	1874.188	1875.802	1877.570	1878.895
12.5	1835.995	1836.187	1836.744	1837.685	1839.011	1839.741	1839.895	1840.394	1841.278	1842.508
15.0	1791.442	1792.211	1792.806	1794.439	1795.919	1797.821	1800.164	1801.067	1802.105	1803.584
17.5	1746.006	1747.639	1749.137	1751.155	1753.460	1755.535	1758.090	1761.145	1762.970	1764.699
20.0	1697.976	1701.415	1704.988	1707.313	1710.233	1713.768	1716.554	1719.839	1723.643	1725.852
22.5	1649.773	1653.692	1658.092	1661.934	1662.875	1664.143	1666.295	1667.602	1669.677	1671.963
25.0	1595.403	1596.383	1598.035	1600.014	1602.857	1604.855	1607.007	1609.697	1611.599	1614.404
27.5	1532.253	1534.347	1536.345	1539.150	1541.974	1545.701	1548.276	1551.407	1554.116	1556.729
30.0	1467.624	1471.620	1475.213	1478.325	1482.110	1485.779	1490.064	1493.195	1496.769	1499.535
32.5	1404.474	1408.758	1413.619	1418.057	1422.322	1425.050	1428.028	1430.833	1433.772	1436.078
35.0	1342.150	1345.186	1348.068	1351.718	1354.677	1358.096	1361.036	1364.225	1367.529	1370.776
37.5	1273.275	1276.330	1279.807	1283.496	1287.012	1291.181	1294.870	1298.385	1301.748	1305.590
40.0	1204.420	1208.627	1212.200	1216.408	1220.884	1225.149	1229.222	1232.604	1236.369	1240.000
42.5	1137.235	1141.385	1145.900	1150.011	1154.660	1158.945	1161.135	1163.498	1166.149	1168.301
45.0	1070.935	1075.469	1077.390	1079.599	1082.174	1085.075	1087.687	1090.300	1092.567	1094.681
47.5	1000.273	1002.405	1004.845	1006.632	1009.571	1012.088	1014.951	1017.295	1019.427	1021.521
50.0	928.804	930.687	933.396	935.932	938.084	940.139	942.714	944.654	946.729	948.785
52.5	859.103	860.409	862.542	865.136	867.748	869.151	871.111	873.147	875.222	877.335
55.0	790.324	791.534	792.879	795.262	797.740	799.085	800.795	802.754	804.599	806.155
57.5	721.315	723.178	723.543	726.156	728.077	729.557	731.036	732.784	734.302	735.205
60.0	653.323	654.437	656.186	657.723	659.375	660.547	661.777	663.141	664.120	664.562
62.5	586.331	588.060	589.117	590.097	591.576	592.248	593.343	594.400	595.380	595.783
65.0	520.568	521.779	523.066	523.489	525.064	525.122	525.832	526.639	527.427	527.696
67.5	455.862	456.477	457.860	457.572	458.571	458.437	458.667	459.148	459.647	459.743
70.0	392.079	391.944	392.751	392.309	392.559	392.194	391.810	391.925	392.040	391.944
72.5	329.082	328.179	328.103	328.602	328.967	329.178	328.890	329.121	329.255	329.332
75.0	271.216	270.832	270.947	270.832	270.313	270.102	269.275	268.718	268.200	267.854
77.5	216.366	215.194	214.271	213.368	212.062	211.178	209.910	208.469	207.259	206.433
80.0	162.015	159.959	158.096	156.155	154.099	152.390	150.757	148.374	146.434	145.031
82.5	115.829	115.522	115.291	114.830	114.177	113.716	113.370	112.121	111.007	110.392
85.0	89.259	88.125	87.184	86.166	84.783	83.649	82.727	81.209	79.538	78.539
87.5	62.823	60.844	59.154	57.598	55.446	53.678	52.084	50.278	48.068	46.685
90.0	36.349	33.563	31.104	28.991	26.071	23.669	21.421	19.346	16.580	14.812
92.5	70.431	68.510	66.589	64.648	62.343	60.287	58.232	56.483	54.005	51.949
95.0	104.513	103.437	102.016	100.248	98.596	96.905	95.023	93.620	91.430	89.067
97.5	138.730	138.442	137.481	135.925	134.868	133.466	131.833	130.699	128.759	126.146
100.0	185.319	184.147	182.226	179.690	177.711	175.463	173.100	171.275	168.662	165.127
102.5	237.172	236.711	235.462	233.560	231.870	230.237	228.757	227.489	225.338	222.513
105.0	289.486	289.679	288.987	287.565	286.220	285.202	284.549	283.780	282.090	279.976
107.5	344.221	344.029	342.877	341.762	340.782	340.456	340.533	340.206	338.938	337.516
110.0	403.010	403.145	402.050	400.858	399.898	399.648	399.514	398.803	397.400	396.171
112.5	462.318	462.644	461.684	461.395	461.338	462.068	462.068	461.472	460.416	459.589
115.0	522.297	522.374	521.971	522.586	523.354	525.006	524.795	524.372	523.565	523.085
117.5	582.700	582.892	583.238	584.410	586.043	588.233	587.695	587.503	586.907	586.677
120.0	644.025	644.620	645.370	646.810	649.039	651.095	651.344	651.575	651.037	650.883
122.5	706.195	707.232	707.636	709.960	712.631	714.686	715.781	716.512	716.588	717.069
125.0	769.421	770.459	771.612	773.898	776.914	779.220	780.776	781.756	782.409	783.542
127.5	831.899	833.532	835.722	838.489	841.659	844.790	846.346	847.422	848.556	850.246
130.0	895.760	898.084	900.851	904.059	907.056	909.919	912.205	913.338	914.895	916.893
132.5	961.714	964.058	967.094	969.783	973.049	975.662	978.141	979.543	981.368	983.558
135.0	1027.150	1031.473	1034.701	1037.217	1039.619	1042.405	1044.403	1046.151	1048.264	1050.570
137.5	1090.031	1094.834	1099.829	1102.942	1106.400	1110.050	1111.280	1113.086	1115.622	1117.985
140.0	1154.756	1159.925	1163.748	1167.629	1171.164	1174.007	1176.216	1178.675	1181.730	1184.862
142.5	1221.672	1225.841	1230.068	1233.199	1235.966	1238.252	1240.519	1243.305	1246.206	1249.721
145.0	1289.298	1294.005	1297.002	1300.018	1301.575	1303.304	1305.475	1308.068	1311.200	1314.293
147.5	1349.758	1354.888	1359.902	1363.956	1367.241	1368.874	1371.295	1373.831	1376.694	1379.095

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CANDELA TABULATION - (Cont.)

150.0	1409.565	1413.773	1417.288	1419.901	1423.110	1426.568	1430.737	1434.233	1438.114	1441.361
152.5	1470.198	1472.408	1474.348	1476.884	1479.420	1482.859	1485.683	1489.103	1492.062	1494.847
155.0	1529.487	1530.716	1532.349	1534.001	1536.499	1538.631	1541.091	1543.972	1545.855	1548.603
157.5	1580.898	1584.529	1588.506	1591.926	1593.040	1594.615	1597.017	1598.112	1599.956	1601.781
160.0	1625.451	1628.486	1631.790	1634.499	1637.727	1641.493	1643.856	1646.680	1650.023	1651.406
162.5	1669.504	1671.713	1673.673	1676.132	1678.552	1680.185	1682.299	1684.854	1686.026	1687.006
165.0	1713.115	1714.421	1715.459	1716.650	1717.687	1719.167	1721.030	1721.357	1721.779	1722.586
167.5	1755.631	1755.477	1755.708	1756.265	1757.187	1757.495	1757.168	1757.168	1757.514	1758.186
170.0	1779.819	1781.817	1783.796	1784.641	1785.525	1786.524	1787.638	1788.868	1790.213	1790.078
172.5	1798.474	1798.839	1799.281	1799.838	1800.472	1801.202	1802.009	1801.817	1801.432	1801.106
175.0	1813.920	1814.151	1814.439	1814.016	1813.632	1813.286	1812.979	1812.710	1812.479	1812.287
177.5	1825.063	1824.833	1824.602	1824.391	1824.218	1824.045	1823.910	1823.776	1823.680	1823.603
180.0	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746	1834.746

Vert. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	1945.964	1945.964	1945.964	1945.964	1945.964
2.5	1929.557	1929.922	1930.307	1930.710	1931.152
5.0	1913.131	1913.842	1914.630	1915.456	1916.359
7.5	1896.686	1897.761	1898.933	1900.201	1901.546
10.0	1880.221	1881.181	1883.026	1884.870	1886.734
12.5	1843.487	1844.467	1845.793	1847.464	1849.482
15.0	1805.486	1806.677	1808.137	1809.982	1812.230
17.5	1766.908	1769.041	1770.559	1772.538	1774.978
20.0	1728.369	1731.424	1732.077	1734.901	1737.725
22.5	1673.404	1675.690	1677.419	1679.110	1681.665
25.0	1616.440	1618.880	1621.301	1622.991	1625.623
27.5	1559.573	1562.147	1565.240	1566.892	1569.563
30.0	1502.743	1505.510	1507.143	1510.332	1513.502
32.5	1438.518	1440.977	1444.262	1445.818	1448.181
35.0	1373.082	1375.848	1379.037	1380.747	1382.861
37.5	1307.895	1310.854	1313.909	1315.753	1317.521
40.0	1242.901	1246.013	1248.895	1250.106	1252.200
42.5	1170.664	1173.181	1175.294	1176.966	1178.137
45.0	1097.005	1099.388	1101.405	1103.038	1104.075
47.5	1023.500	1025.729	1027.650	1029.148	1029.994
50.0	950.072	952.185	954.010	954.471	955.932
52.5	878.507	880.448	882.311	883.579	883.925
55.0	807.423	809.056	810.727	811.938	811.899
57.5	736.434	737.818	739.201	740.315	739.873
60.0	665.542	666.714	665.004	668.040	667.867
62.5	596.571	597.724	598.588	599.472	598.800
65.0	528.042	529.002	529.598	530.251	529.752
67.5	459.609	460.320	460.646	461.030	460.685
70.0	391.272	391.694	389.792	391.310	391.617
72.5	328.698	329.006	329.063	329.159	329.102
75.0	266.932	266.739	266.586	266.528	266.586
77.5	205.242	204.512	204.128	203.935	204.070
80.0	143.590	140.190	140.728	141.093	141.554
82.5	109.528	108.567	108.125	107.722	107.741
85.0	77.232	75.868	75.042	74.216	73.928
87.5	44.918	43.169	41.940	40.710	40.095
90.0	12.603	10.471	8.838	7.205	6.282
92.5	49.874	48.145	46.512	44.995	43.458
95.0	87.146	85.820	84.187	82.765	80.652

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CANDELA TABULATION - (Cont.)

97.5	124.398	123.476	121.862	120.555	117.827
100.0	162.899	161.803	159.844	158.403	155.002
102.5	220.957	220.016	218.383	217.384	213.772
105.0	279.035	278.247	276.960	276.345	272.541
107.5	337.132	336.517	335.557	335.153	331.292
110.0	395.863	395.152	394.326	394.077	390.061
112.5	459.513	459.244	458.533	458.187	453.807
115.0	523.277	523.335	522.739	522.259	517.552
117.5	587.176	587.445	586.946	586.312	581.297
120.0	651.575	651.825	651.268	650.365	645.043
122.5	718.164	718.663	718.567	717.645	712.784
125.0	784.887	785.656	785.886	784.925	780.526
127.5	851.764	852.801	853.243	852.225	848.267
130.0	918.814	920.101	920.601	919.525	916.009
132.5	985.902	987.516	988.092	987.017	983.597
135.0	1053.067	1055.104	1055.661	1054.489	1051.165
137.5	1120.444	1122.884	1123.306	1121.962	1118.753
140.0	1187.455	1190.107	1190.875	1189.377	1186.322
142.5	1251.931	1254.121	1254.793	1252.968	1250.336
145.0	1316.656	1318.135	1318.712	1316.579	1314.351
147.5	1381.689	1382.131	1382.630	1380.209	1378.365
150.0	1445.011	1445.146	1446.145	1443.763	1442.379
152.5	1497.095	1497.575	1498.190	1496.038	1494.828
155.0	1549.429	1550.236	1550.255	1548.334	1547.277
157.5	1602.089	1603.165	1602.319	1600.629	1599.726
160.0	1653.039	1655.171	1653.884	1652.789	1652.174
162.5	1688.408	1689.061	1687.736	1686.833	1686.353
165.0	1723.797	1722.702	1721.607	1720.877	1720.531
167.5	1757.571	1756.380	1755.516	1754.959	1754.709
170.0	1789.675	1789.367	1789.118	1788.964	1788.887
172.5	1800.856	1800.645	1800.510	1800.433	1800.433
175.0	1812.134	1812.037	1811.961	1811.941	1811.980
177.5	1823.545	1823.488	1823.488	1823.488	1823.507
180.0	1834.746	1834.746	1834.746	1834.746	1834.746

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	695.84	N.A.	7.50
0-30	1447.81	N.A.	15.60
0-40	2312.89	N.A.	25.00
0-60	3900.5	N.A.	42.10
0-80	4735.05	N.A.	51.20
0-90	4838.38	N.A.	52.30
10-90	4655.97	N.A.	50.30
20-40	1617.05	N.A.	17.50
20-50	2469.9	N.A.	26.70
40-70	2120.91	N.A.	22.90
60-80	834.56	N.A.	9.00
70-80	301.24	N.A.	3.30
80-90	103.33	N.A.	1.10
90-110	365.21	N.A.	3.90
90-120	849.45	N.A.	9.20
90-130	1512.35	N.A.	16.30
90-150	3071.98	N.A.	33.20
90-180	4417.63	N.A.	47.70
110-180	4052.42	N.A.	43.80
0-180	9256.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.41
10-20	513.43
20-30	751.97
30-40	865.08
40-50	852.85
50-60	734.75
60-70	533.31
70-80	301.24
80-90	103.33
90-100	93.87
100-110	271.34
110-120	484.23
120-130	662.90
130-140	770.97
140-150	788.65
150-160	693.88
160-170	479.95
170-180	171.83

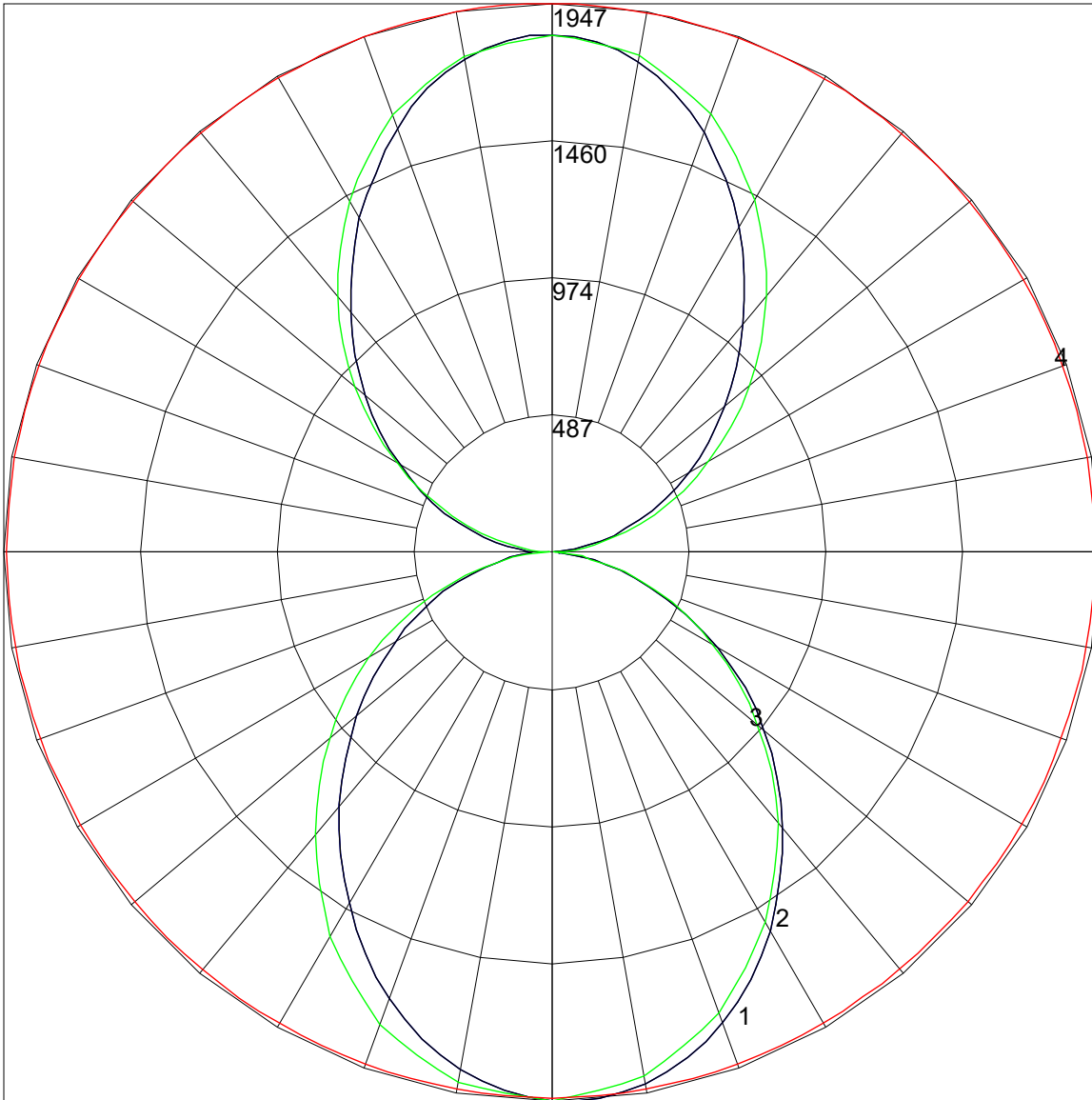
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1947.155 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.)