



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WPAS-L34-850-BZ.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] Q2014072501
 [DATE] 2014-7-25
 [MANUFAC] QSSI
 [LUMCAT] WPAS-L34-850-BZ
 [LUMINAIRE] WPAS with QSSI 37 watt LED array
 [LAMPCAT] Samsung LM561B LEDs

CHARACTERISTICS

Lumens Per Lamp	5044 (1 lamp)
Total Lamp Lumens	5044
Luminaire Lumens	3443
Total Luminaire Efficiency	68 %
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.56
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	847.778	848.809	849.841	850.872	851.903	852.935	853.966	855.513	857.060	858.608
5.0	807.555	813.743	819.931	826.120	832.308	838.496	844.684	849.325	853.966	858.608
7.5	922.036	925.646	929.256	932.866	936.475	940.085	943.695	929.772	915.848	901.925
10.0	974.636	975.152	975.667	976.183	976.699	977.214	977.730	967.932	958.134	948.336
12.5	990.106	990.622	991.137	991.653	992.169	992.684	993.200	994.231	995.263	996.294
15.0	993.200	992.684	992.169	991.653	991.137	990.622	990.106	989.590	989.075	988.559
17.5	1120.057	1109.744	1099.430	1089.117	1078.803	1068.490	1058.176	1047.862	1037.549	1027.235
20.0	1110.775	1102.524	1094.273	1086.023	1077.772	1069.521	1061.270	1067.458	1073.646	1079.835
22.5	1150.998	1153.577	1156.155	1158.734	1161.312	1163.891	1166.469	1162.344	1158.218	1154.093
25.0	1222.162	1224.225	1226.287	1228.350	1230.413	1232.475	1234.538	1226.287	1218.036	1209.786
27.5	1265.479	1276.824	1288.169	1299.514	1310.859	1322.204	1333.549	1306.218	1278.887	1251.556
30.0	1305.702	1305.702	1305.702	1305.702	1305.702	1305.702	1305.702	1303.124	1300.545	1297.967
32.5	1262.385	1263.416	1264.448	1265.479	1266.510	1267.542	1268.573	1266.510	1264.448	1262.385
35.0	1321.173	1320.142	1319.110	1318.079	1317.047	1316.016	1314.984	1303.124	1291.263	1279.403
37.5	1333.549	1329.424	1325.298	1321.173	1317.047	1312.922	1308.796	1300.030	1291.263	1282.497
40.0	1311.890	1313.953	1316.016	1318.079	1320.141	1322.204	1324.267	1322.204	1320.141	1318.079
42.5	1318.079	1326.846	1335.612	1344.379	1353.145	1361.912	1370.678	1356.755	1342.831	1328.908
45.0	1305.702	1308.796	1311.890	1314.985	1318.079	1321.173	1324.267	1308.281	1292.295	1276.309
47.5	1311.890	1327.361	1342.831	1358.302	1373.772	1389.243	1404.713	1387.180	1369.647	1352.114
50.0	1349.019	1346.441	1343.862	1341.284	1338.706	1336.127	1333.549	1324.783	1316.016	1307.250
52.5	1231.444	1239.179	1246.915	1254.650	1262.385	1270.121	1277.856	1270.636	1263.417	1256.197
55.0	1225.256	1226.803	1228.350	1229.897	1231.444	1232.991	1234.538	1230.413	1226.287	1222.162
57.5	1256.197	1254.650	1253.103	1251.556	1250.009	1248.462	1246.915	1235.054	1223.194	1211.333
60.0	1222.162	1223.193	1224.225	1225.256	1226.287	1227.319	1228.350	1213.395	1198.441	1183.486
62.5	1141.716	1144.810	1147.904	1150.998	1154.092	1157.186	1160.280	1152.545	1144.810	1137.075
65.0	1135.528	1132.434	1129.340	1126.246	1123.151	1120.057	1116.963	1110.775	1104.587	1098.399
67.5	1107.681	1106.134	1104.587	1103.040	1101.493	1099.946	1098.399	1086.538	1074.678	1062.817
70.0	1002.482	1002.998	1003.513	1004.029	1004.545	1005.060	1005.576	1004.029	1002.482	1000.935
72.5	1036.517	1030.329	1024.141	1017.953	1011.764	1005.576	999.388	992.169	984.949	977.730
75.0	931.318	938.022	944.726	951.430	958.134	964.838	971.542	951.946	932.350	912.754
77.5	915.848	906.566	897.284	888.002	878.719	869.437	860.155	858.092	856.029	853.967
80.0	826.120	823.542	820.963	818.385	815.806	813.228	810.649	803.430	796.210	788.991
82.5	813.743	806.524	799.304	792.085	784.865	777.646	770.426	758.565	746.705	734.844
85.0	745.674	742.580	739.486	736.392	733.297	730.203	727.109	709.576	692.043	674.510
87.5	631.193	628.615	626.036	623.458	620.879	618.301	615.722	610.050	604.377	598.705
90.0	538.370	536.307	534.245	532.182	530.119	528.057	525.994	523.416	520.837	518.259
92.5	529.088	524.447	519.806	515.165	510.523	505.882	501.241	489.380	477.520	465.659
95.0	439.360	436.782	434.203	431.625	429.046	426.468	423.889	416.670	409.450	402.231
97.5	423.889	417.185	410.481	403.778	397.074	390.370	383.666	374.384	365.102	355.820
100.0	349.631	346.537	343.443	340.349	337.255	334.161	331.067	324.363	317.659	310.956
102.5	303.220	300.126	297.032	293.938	290.844	287.750	284.656	278.468	272.280	266.092
105.0	275.373	272.279	269.185	266.091	262.997	259.903	256.809	250.105	243.401	236.698
107.5	232.056	229.478	226.899	224.321	221.743	219.164	216.586	211.429	206.272	201.116
110.0	201.115	198.021	194.927	191.833	188.739	185.645	182.551	177.910	173.269	168.628
112.5	173.269	170.691	168.112	165.534	162.955	160.377	157.798	153.673	149.547	145.422
115.0	151.610	149.547	147.485	145.422	143.359	141.297	139.234	136.140	133.046	129.952
117.5	133.046	131.499	129.952	128.405	126.857	125.310	123.763	121.185	118.606	116.028
120.0	117.575	116.544	115.512	114.481	113.450	112.418	111.387	108.809	106.230	103.652
122.5	105.199	104.168	103.136	102.105	101.074	100.042	99.011	96.433	93.854	91.276
125.0	89.728	89.212	88.697	88.181	87.665	87.150	86.634	84.056	81.477	78.899
127.5	80.446	79.415	78.383	77.352	76.321	75.289	74.258	72.195	70.133	68.070
130.0	68.070	68.070	68.070	68.070	68.070	68.070	68.070	66.007	63.944	61.882
132.5	61.882	61.366	60.851	60.335	59.819	59.304	58.788	57.241	55.694	54.147

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CANDELA TABULATION - (Cont.)

135.0	52.599	52.083	51.568	51.052	50.536	50.021	49.505	47.958	46.411	44.864
137.5	46.411	45.895	45.380	44.864	44.348	43.833	43.317	41.770	40.223	38.676
140.0	40.223	39.707	39.192	38.676	38.160	37.645	37.129	36.098	35.066	34.035
142.5	37.129	36.098	35.066	34.035	33.004	31.972	30.941	29.394	27.847	26.300
145.0	27.847	27.331	26.816	26.300	25.784	25.269	24.753	23.722	22.690	21.659
147.5	21.659	20.628	19.596	18.565	17.533	16.502	15.470	14.954	14.439	13.923
150.0	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
157.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
160.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	9.282	9.798	10.313	10.829	11.345	11.860	12.376	12.376	12.376	12.376
167.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
170.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

**Vert.
Angles**

Horizontal Angles

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	860.155	861.702	863.249	862.733	862.218	861.702	861.186	860.671	860.155	853.451
5.0	863.249	867.890	872.531	869.437	866.343	863.249	860.154	857.060	853.966	848.809
7.5	888.002	874.078	860.155	851.388	842.622	833.855	825.088	816.322	807.555	821.994
10.0	938.538	928.740	918.942	917.911	916.879	915.848	914.817	913.785	912.754	894.705
12.5	997.325	998.357	999.388	987.527	975.667	963.806	951.945	940.085	928.224	927.193
15.0	988.043	987.528	987.012	999.388	1011.765	1024.141	1036.517	1048.894	1061.270	1025.688
17.5	1016.921	1006.608	996.294	989.075	981.855	974.636	967.416	960.197	952.977	944.726
20.0	1086.023	1092.211	1098.399	1083.444	1068.489	1053.535	1038.580	1023.625	1008.670	999.904
22.5	1149.967	1145.842	1141.716	1117.479	1093.242	1069.005	1044.768	1020.531	996.294	987.012
25.0	1201.535	1193.284	1185.033	1165.437	1145.841	1126.246	1106.650	1087.054	1067.458	1045.284
27.5	1224.225	1196.894	1169.563	1157.187	1144.810	1132.434	1120.058	1107.681	1095.305	1073.646
30.0	1295.389	1292.810	1290.232	1257.744	1225.256	1192.769	1160.281	1127.793	1095.305	1067.974
32.5	1260.322	1258.260	1256.197	1246.915	1237.633	1228.351	1219.068	1209.786	1200.504	1162.344
35.0	1267.542	1255.682	1243.821	1234.023	1224.225	1214.427	1204.629	1194.831	1185.033	1147.904
37.5	1273.730	1264.964	1256.197	1243.305	1230.413	1217.521	1204.629	1191.737	1178.845	1155.124
40.0	1316.016	1313.953	1311.890	1295.904	1279.918	1263.932	1247.946	1231.960	1215.974	1174.720
42.5	1314.985	1301.061	1287.138	1267.027	1246.915	1226.804	1206.692	1186.581	1166.469	1135.013
45.0	1260.322	1244.336	1228.350	1214.942	1201.535	1188.127	1174.719	1161.312	1147.904	1114.385
47.5	1334.580	1317.047	1299.514	1267.542	1235.570	1203.598	1171.625	1139.653	1107.681	1076.225
50.0	1298.483	1289.717	1280.950	1261.870	1242.790	1223.710	1204.629	1185.549	1166.469	1118.511
52.5	1248.977	1241.758	1234.538	1212.364	1190.190	1168.016	1145.841	1123.667	1101.493	1058.176
55.0	1218.037	1213.911	1209.786	1185.549	1161.312	1137.075	1112.838	1088.601	1064.364	1024.141
57.5	1199.472	1187.612	1175.751	1153.061	1130.371	1107.681	1084.991	1062.301	1039.611	994.231
60.0	1168.531	1153.577	1138.622	1119.542	1100.462	1081.382	1062.301	1043.221	1024.141	976.183
62.5	1129.339	1121.604	1113.869	1089.116	1064.364	1039.611	1014.858	990.106	965.353	918.942
65.0	1092.210	1086.022	1079.834	1048.378	1016.921	985.465	954.008	922.552	891.095	853.451
67.5	1050.956	1039.096	1027.235	995.779	964.322	932.866	901.409	869.953	838.496	804.977
70.0	999.388	997.841	996.294	967.416	938.538	909.660	880.782	851.904	823.026	783.319
72.5	970.510	963.291	956.071	917.911	879.750	841.590	803.430	765.269	727.109	696.168
75.0	893.158	873.562	853.966	827.151	800.335	773.520	746.705	719.889	693.074	659.555
77.5	851.904	849.841	847.778	811.681	775.583	739.486	703.388	667.291	631.193	602.315
80.0	781.771	774.552	767.332	734.844	702.356	669.869	637.381	604.893	572.405	546.621

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CANDELA TABULATION - (Cont.)

82.5	722.983	711.123	699.262	670.384	641.506	612.628	583.750	554.872	525.994	501.241
85.0	656.976	639.443	621.910	597.157	572.405	547.652	522.899	498.147	473.394	450.704
87.5	593.032	587.360	581.687	555.903	530.119	504.335	478.551	452.767	426.983	404.293
90.0	515.680	513.102	510.523	488.865	467.206	445.548	423.889	402.231	380.572	360.976
92.5	453.798	441.938	430.077	413.060	396.042	379.025	362.008	344.990	327.973	309.409
95.0	395.011	387.792	380.572	363.555	346.537	329.520	312.502	295.485	278.467	261.450
97.5	346.537	337.255	327.973	312.503	297.032	281.562	266.091	250.621	235.150	220.195
100.0	304.252	297.548	290.844	275.889	260.934	245.980	231.025	216.070	201.115	186.160
102.5	259.903	253.715	247.527	234.635	221.743	208.851	195.959	183.067	170.175	157.283
105.0	229.994	223.290	216.586	205.241	193.896	182.551	171.206	159.861	148.516	137.171
107.5	195.959	190.802	185.645	174.300	162.955	151.610	140.265	128.920	117.575	109.840
110.0	163.986	159.345	154.704	145.938	137.171	128.405	119.638	110.872	102.105	95.401
112.5	141.297	137.171	133.046	125.826	118.607	111.387	104.167	96.948	89.728	84.571
115.0	126.857	123.763	120.669	113.450	106.230	99.011	91.791	84.572	77.352	73.227
117.5	113.450	110.871	108.293	101.589	94.885	88.182	81.478	74.774	68.070	64.976
120.0	101.074	98.495	95.917	90.245	84.572	78.900	73.227	67.555	61.882	58.788
122.5	88.697	86.119	83.540	78.899	74.258	69.617	64.975	60.334	55.693	52.599
125.0	76.321	73.742	71.164	67.554	63.944	60.335	56.725	53.115	49.505	46.927
127.5	66.007	63.945	61.882	58.788	55.694	52.600	49.505	46.411	43.317	40.739
130.0	59.819	57.756	55.693	52.599	49.505	46.411	43.317	40.223	37.129	35.066
132.5	52.599	51.052	49.505	46.411	43.317	40.223	37.129	34.035	30.941	28.878
135.0	43.317	41.770	40.223	38.160	36.098	34.035	31.972	29.910	27.847	26.300
137.5	37.129	35.582	34.035	31.972	29.910	27.847	25.784	23.722	21.659	21.143
140.0	33.004	31.972	30.941	28.363	25.784	23.206	20.627	18.049	15.470	15.986
142.5	24.753	23.206	21.659	20.112	18.565	17.018	15.470	13.923	12.376	12.892
145.0	20.627	19.596	18.564	17.533	16.501	15.470	14.439	13.407	12.376	12.376
147.5	13.407	12.892	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
150.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
157.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
160.0	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
167.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
170.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	846.747	840.044	833.340	826.636	819.932	811.681	803.430	795.179	786.928	778.677
5.0	843.653	838.496	833.339	828.183	823.026	817.869	812.712	807.556	802.399	797.242
7.5	836.433	850.873	865.312	879.751	894.190	882.845	871.500	860.155	848.810	837.465
10.0	876.656	858.608	840.559	822.510	804.461	814.775	825.088	835.402	845.716	856.029
12.5	926.161	925.130	924.099	923.067	922.036	902.440	882.844	863.249	843.653	824.057
15.0	990.106	954.524	918.942	883.360	847.778	846.747	845.715	844.684	843.653	842.621
17.5	936.475	928.225	919.974	911.723	903.472	891.611	879.751	867.890	856.029	844.169
20.0	991.137	982.371	973.604	964.838	956.071	937.507	918.942	900.378	881.813	863.249
22.5	977.730	968.448	959.165	949.883	940.601	922.037	903.472	884.908	866.343	847.779
25.0	1023.110	1000.936	978.761	956.587	934.413	913.270	892.127	870.984	849.841	828.698
27.5	1051.988	1030.329	1008.670	987.012	965.353	936.991	908.628	880.266	851.904	823.541

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CANDELA TABULATION - (Cont.)

30.0	1040.643	1013.312	985.980	958.649	931.318	913.269	895.221	877.172	859.123	841.075
32.5	1124.183	1086.023	1047.863	1009.702	971.542	941.117	910.692	880.267	849.841	819.416
35.0	1110.775	1073.646	1036.517	999.388	962.259	931.834	901.409	870.984	840.558	810.133
37.5	1131.402	1107.681	1083.960	1060.238	1036.517	994.231	951.946	909.660	867.374	825.089
40.0	1133.465	1092.211	1050.956	1009.702	968.447	929.255	890.064	850.872	811.680	772.489
42.5	1103.556	1072.100	1040.643	1009.187	977.730	933.382	889.033	844.685	800.336	755.988
45.0	1080.866	1047.347	1013.827	980.308	946.789	900.894	854.998	809.103	763.207	717.312
47.5	1044.768	1013.312	981.855	950.399	918.942	873.562	828.182	782.803	737.423	692.043
50.0	1070.552	1022.594	974.636	926.677	878.719	832.824	786.928	741.033	695.137	649.242
52.5	1014.859	971.542	928.224	884.907	841.590	799.304	757.018	714.733	672.447	630.161
55.0	983.918	943.695	903.472	863.249	823.026	780.740	738.454	696.169	653.883	611.597
57.5	948.851	903.472	858.092	812.712	767.332	730.203	693.074	655.945	618.816	581.687
60.0	928.224	880.266	832.308	784.349	736.391	699.778	663.165	626.552	589.938	553.325
62.5	872.531	826.120	779.708	733.297	686.886	653.367	619.848	586.329	552.809	519.290
65.0	815.806	778.162	740.517	702.873	665.228	630.677	596.127	561.576	527.025	492.475
67.5	771.458	737.939	704.419	670.900	637.381	603.346	569.311	535.276	501.241	467.206
70.0	743.611	703.904	664.196	624.489	584.781	553.840	522.899	491.959	461.018	430.077
72.5	665.227	634.287	603.346	572.405	541.464	514.133	486.802	459.471	432.140	404.809
75.0	626.036	592.517	558.997	525.478	491.959	467.722	443.485	419.248	395.011	370.774
77.5	573.437	544.559	515.680	486.802	457.924	434.718	411.513	388.307	365.101	341.896
80.0	520.837	495.053	469.269	443.485	417.701	394.495	371.290	348.084	324.878	301.673
82.5	476.489	451.736	426.983	402.231	377.478	355.304	333.129	310.955	288.781	266.606
85.0	428.014	405.325	382.635	359.945	337.255	314.565	291.875	269.185	246.495	223.805
87.5	381.603	358.914	336.224	313.534	290.844	268.670	246.495	224.321	202.147	179.972
90.0	341.380	321.785	302.189	282.593	262.997	237.729	212.460	187.192	161.924	136.655
92.5	290.844	272.280	253.715	235.151	216.586	193.896	171.206	148.516	125.826	103.136
95.0	244.432	227.415	210.398	193.380	176.363	157.283	138.203	119.123	100.042	80.962
97.5	205.241	190.286	175.331	160.377	145.422	130.467	115.512	100.558	85.603	70.648
100.0	171.206	156.251	141.296	126.342	111.387	101.589	91.791	81.993	72.195	62.397
102.5	144.391	131.499	118.606	105.714	92.822	85.603	78.383	71.164	63.944	56.725
105.0	125.826	114.481	103.136	91.791	80.446	75.289	70.132	64.976	59.819	54.662
107.5	102.105	94.370	86.634	78.899	71.164	67.039	62.913	58.788	54.662	50.537
110.0	88.697	81.994	75.290	68.586	61.882	58.788	55.694	52.600	49.505	46.411
112.5	79.415	74.258	69.101	63.945	58.788	56.210	53.631	51.053	48.474	45.896
115.0	69.101	64.976	60.850	56.725	52.599	50.536	48.474	46.411	44.348	42.286
117.5	61.882	58.788	55.693	52.599	49.505	47.442	45.380	43.317	41.254	39.192
120.0	55.694	52.600	49.505	46.411	43.317	41.770	40.223	38.676	37.129	35.582
122.5	49.505	46.411	43.317	40.223	37.129	36.098	35.066	34.035	33.004	31.972
125.0	44.348	41.770	39.192	36.613	34.035	33.004	31.972	30.941	29.910	28.878
127.5	38.160	35.582	33.004	30.425	27.847	27.331	26.816	26.300	25.784	25.269
130.0	33.004	30.941	28.878	26.816	24.753	24.753	24.753	24.753	24.753	24.753
132.5	26.815	24.753	22.690	20.627	18.564	19.080	19.596	20.112	20.627	21.143
135.0	24.753	23.206	21.658	20.111	18.564	18.564	18.564	18.564	18.564	18.564
137.5	20.627	20.112	19.596	19.080	18.564	18.564	18.564	18.564	18.564	18.564
140.0	16.501	17.017	17.533	18.048	18.564	18.048	17.533	17.017	16.501	15.986
142.5	13.407	13.923	14.439	14.954	15.470	15.470	15.470	15.470	15.470	15.470
145.0	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
147.5	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
150.0	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
155.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
157.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
160.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	14.439	13.923	13.407	12.892	12.376	12.892	13.407	13.923	14.439	14.954
167.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954

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CANDELA TABULATION - (Cont.)

170.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

Vert. Angles	Horizontal Angles									
	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	770.426	765.785	761.144	756.503	751.862	747.221	742.580	748.768	754.956	761.144
5.0	792.085	779.709	767.332	754.956	742.580	730.203	717.827	722.468	727.109	731.751
7.5	826.120	810.650	795.179	779.709	764.238	748.768	733.297	739.485	745.673	751.862
10.0	866.343	850.357	834.371	818.385	802.398	786.412	770.426	763.207	755.987	748.768
12.5	804.461	788.475	772.489	756.503	740.517	724.531	708.545	705.967	703.388	700.810
15.0	841.590	820.963	800.336	779.709	759.081	738.454	717.827	709.576	701.325	693.075
17.5	832.308	811.681	791.054	770.427	749.799	729.172	708.545	695.653	682.761	669.869
20.0	844.684	821.994	799.304	776.615	753.925	731.235	708.545	688.949	669.353	649.758
22.5	829.214	808.071	786.928	765.785	744.642	723.499	702.356	682.760	663.164	643.569
25.0	807.555	788.475	769.395	750.315	731.234	712.154	693.074	670.384	647.694	625.005
27.5	795.179	775.068	754.956	734.845	714.733	694.622	674.510	652.336	630.161	607.987
30.0	823.026	797.242	771.458	745.674	719.890	694.106	668.322	645.632	622.942	600.252
32.5	788.991	765.785	742.580	719.374	696.168	672.963	649.757	622.942	596.126	569.311
35.0	779.708	751.346	722.983	694.621	666.259	637.896	609.534	585.813	562.091	538.370
37.5	782.803	754.441	726.078	697.716	669.353	640.991	612.628	581.171	549.715	518.258
40.0	733.297	706.997	680.698	654.398	628.098	601.799	575.499	546.105	516.711	487.317
42.5	711.639	681.214	650.789	620.364	589.938	559.513	529.088	502.273	475.457	448.642
45.0	671.416	639.960	608.503	577.047	545.590	514.134	482.677	457.924	433.172	408.419
47.5	646.663	614.691	582.719	550.747	518.774	486.802	454.830	428.530	402.231	375.931
50.0	603.346	573.952	544.558	515.165	485.771	456.377	426.983	401.199	375.415	349.631
52.5	587.875	556.934	525.994	495.053	464.112	433.172	402.231	376.447	350.663	324.879
55.0	569.311	537.339	505.367	473.395	441.422	409.450	377.478	352.210	326.941	301.673
57.5	544.558	511.555	478.551	445.548	412.544	379.541	346.537	321.784	297.032	272.279
60.0	516.712	484.740	452.768	420.796	388.823	356.851	324.879	299.611	274.342	249.074
62.5	485.771	455.346	424.921	394.496	364.070	333.645	303.220	277.436	251.652	225.868
65.0	457.924	428.015	398.105	368.196	338.286	308.377	278.467	253.199	227.930	202.662
67.5	433.171	403.777	374.384	344.990	315.596	286.203	256.809	230.509	204.210	177.910
70.0	399.136	371.289	343.443	315.596	287.749	259.903	232.056	206.788	181.519	156.251
72.5	377.478	349.116	320.753	292.391	264.028	235.666	207.303	184.097	160.892	137.687
75.0	346.537	317.659	288.781	259.903	231.025	202.147	173.269	154.189	135.109	116.029
77.5	318.690	287.234	255.777	224.321	192.864	161.408	129.951	116.543	103.136	89.728
80.0	278.467	247.011	215.554	184.098	152.641	121.185	89.728	83.024	76.320	69.617
82.5	244.432	213.491	182.551	151.610	120.669	89.729	58.788	56.725	54.662	52.600
85.0	201.115	174.815	148.516	122.216	95.916	69.617	43.317	43.833	44.348	44.864
87.5	157.798	137.171	116.544	95.917	75.289	54.662	34.035	36.098	38.160	40.223
90.0	111.387	97.979	84.572	71.164	57.756	44.349	30.941	33.519	36.098	38.676
92.5	80.446	72.711	64.976	57.241	49.505	41.770	34.035	36.613	39.192	41.770
95.0	61.882	58.272	54.662	51.053	47.443	43.833	40.223	41.254	42.286	43.317
97.5	55.693	53.630	51.568	49.505	47.442	45.380	43.317	43.833	44.348	44.864
100.0	52.599	51.568	50.536	49.505	48.474	47.442	46.411	45.895	45.380	44.864
102.5	49.505	48.989	48.474	47.958	47.442	46.927	46.411	44.864	43.317	41.770
105.0	49.505	48.989	48.474	47.958	47.442	46.927	46.411	44.864	43.317	41.770
107.5	46.411	46.411	46.411	46.411	46.411	46.411	46.411	44.348	42.286	40.223
110.0	43.317	43.317	43.317	43.317	43.317	43.317	43.317	41.770	40.223	38.676
112.5	43.317	43.317	43.317	43.317	43.317	43.317	43.317	41.254	39.192	37.129
115.0	40.223	39.707	39.192	38.676	38.160	37.645	37.129	35.582	34.035	32.488

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CANDELA TABULATION - (Cont.)

117.5	37.129	36.613	36.098	35.582	35.066	34.551	34.035	32.488	30.941	29.394
120.0	34.035	33.519	33.004	32.488	31.972	31.457	30.941	29.394	27.847	26.300
122.5	30.941	30.425	29.910	29.394	28.878	28.363	27.847	26.300	24.753	23.206
125.0	27.847	27.331	26.816	26.300	25.784	25.269	24.753	23.722	22.690	21.659
127.5	24.753	24.753	24.753	24.753	24.753	24.753	24.753	23.722	22.690	21.659
130.0	24.753	23.722	22.690	21.659	20.627	19.596	18.564	18.564	18.564	18.564
132.5	21.659	21.143	20.627	20.112	19.596	19.080	18.564	18.048	17.533	17.017
135.0	18.564	18.048	17.533	17.017	16.501	15.986	15.470	15.470	15.470	15.470
137.5	18.564	18.564	18.564	18.564	18.564	18.564	18.564	18.048	17.533	17.017
140.0	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923
142.5	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923
145.0	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923
147.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
150.0	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
157.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
160.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
162.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
165.0	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
167.5	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.892	13.407	13.923
170.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
172.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
175.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
177.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

**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	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	767.332	773.520	779.708	779.708	779.708	779.708	779.708	779.708	779.708	780.224
5.0	736.392	741.033	745.674	742.580	739.486	736.392	733.297	730.203	727.109	724.531
7.5	758.050	764.238	770.426	758.565	746.705	734.844	722.983	711.123	699.262	685.339
10.0	741.548	734.329	727.109	707.513	687.917	668.322	648.726	629.130	609.534	611.597
12.5	698.231	695.653	693.074	685.339	677.604	669.869	662.133	654.398	646.663	628.614
15.0	684.824	676.573	668.322	651.820	635.318	618.817	602.315	585.813	569.311	561.576
17.5	656.977	644.085	631.193	614.176	597.158	580.141	563.123	546.105	529.088	516.196
20.0	630.162	610.566	590.970	574.984	558.998	543.012	527.025	511.039	495.053	481.130
22.5	623.973	604.377	584.781	563.123	541.464	519.806	498.147	476.488	454.830	441.938
25.0	602.315	579.625	556.935	535.276	513.618	491.959	470.300	448.642	426.983	413.575
27.5	585.813	563.638	541.464	515.164	488.865	462.565	436.265	409.966	383.666	370.258
30.0	577.562	554.872	532.182	504.851	477.520	450.189	422.858	395.527	368.196	353.241
32.5	542.496	515.680	488.865	463.081	437.297	411.513	385.729	359.945	334.161	318.175
35.0	514.649	490.927	467.206	440.906	414.607	388.307	362.007	335.708	309.408	292.906
37.5	486.802	455.346	423.889	400.684	377.478	354.273	331.067	307.861	284.656	269.185
40.0	457.924	428.530	399.136	374.384	349.631	324.879	300.126	275.373	250.621	236.182
42.5	421.827	395.011	368.196	344.475	320.753	297.032	273.311	249.589	225.868	211.945
45.0	383.666	358.914	334.161	311.471	288.781	266.091	243.401	220.711	198.021	184.613
47.5	349.631	323.332	297.032	275.889	254.746	233.604	212.461	191.318	170.175	158.314
50.0	323.847	298.063	272.279	252.168	232.056	211.945	191.833	171.721	151.610	140.265
52.5	299.095	273.311	247.527	227.415	207.304	187.192	167.080	146.969	126.857	117.059
55.0	276.405	251.136	225.868	205.241	184.614	163.987	143.359	122.732	102.105	95.401
57.5	247.526	222.774	198.021	177.910	157.798	137.687	117.575	97.463	77.352	73.227
60.0	223.806	198.537	173.269	155.736	138.203	120.670	103.136	85.603	68.070	64.976
62.5	200.084	174.300	148.516	134.593	120.669	106.746	92.823	78.899	64.976	60.851

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CANDELA TABULATION - (Cont.)

65.0	177.394	152.125	126.857	115.512	104.167	92.823	81.478	70.133	58.788	55.178
67.5	151.610	125.311	99.011	91.791	84.572	77.352	70.132	62.913	55.693	51.568
70.0	130.983	105.714	80.446	75.805	71.164	66.523	61.881	57.240	52.599	47.958
72.5	114.481	91.276	68.070	64.460	60.850	57.241	53.631	50.021	46.411	42.801
75.0	96.948	77.868	58.788	55.694	52.600	49.506	46.411	43.317	40.223	37.129
77.5	76.320	62.913	49.505	47.442	45.380	43.317	41.254	39.192	37.129	34.551
80.0	62.913	56.209	49.505	47.442	45.380	43.317	41.254	39.192	37.129	34.551
82.5	50.537	48.474	46.411	44.864	43.317	41.770	40.223	38.676	37.129	34.035
85.0	45.380	45.895	46.411	44.348	42.286	40.223	38.160	36.098	34.035	31.457
87.5	42.286	44.348	46.411	44.864	43.317	41.770	40.223	38.676	37.129	34.551
90.0	41.254	43.833	46.411	43.833	41.254	38.676	36.098	33.519	30.941	28.878
92.5	44.348	46.927	49.505	46.411	43.317	40.223	37.129	34.035	30.941	28.878
95.0	44.348	45.380	46.411	43.317	40.223	37.129	34.035	30.941	27.847	25.784
97.5	45.380	45.895	46.411	43.317	40.223	37.129	34.035	30.941	27.847	25.784
100.0	44.348	43.833	43.317	40.739	38.160	35.582	33.004	30.425	27.847	25.269
102.5	40.223	38.676	37.129	35.066	33.004	30.941	28.878	26.816	24.753	23.206
105.0	40.223	38.676	37.129	34.551	31.972	29.394	26.816	24.237	21.659	20.628
107.5	38.160	36.098	34.035	31.972	29.910	27.847	25.784	23.722	21.659	20.628
110.0	37.129	35.582	34.035	31.972	29.910	27.847	25.784	23.722	21.659	20.628
112.5	35.066	33.004	30.941	28.878	26.815	24.753	22.690	20.627	18.564	17.533
115.0	30.941	29.394	27.847	26.300	24.753	23.206	21.658	20.111	18.564	17.533
117.5	27.847	26.300	24.753	23.722	22.690	21.659	20.627	19.596	18.564	17.533
120.0	24.753	23.206	21.659	21.143	20.627	20.112	19.596	19.080	18.564	17.533
122.5	21.658	20.111	18.564	18.048	17.533	17.017	16.501	15.986	15.470	14.954
125.0	20.627	19.596	18.564	18.048	17.533	17.017	16.501	15.986	15.470	14.954
127.5	20.627	19.596	18.564	18.048	17.533	17.017	16.501	15.986	15.470	14.954
130.0	18.564	18.564	18.564	17.533	16.501	15.470	14.439	13.407	12.376	12.376
132.5	16.501	15.986	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
135.0	15.470	15.470	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
137.5	16.501	15.986	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470
140.0	13.407	12.892	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
142.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
145.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
147.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
150.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
155.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
157.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
160.0	13.407	12.892	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
162.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
167.5	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
170.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470
175.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

**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	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	780.740	781.256	781.771	782.287	782.803	780.740	778.677	776.615	774.552	772.489
5.0	721.952	719.374	716.796	714.217	711.639	704.420	697.200	689.981	682.761	675.542
7.5	671.415	657.492	643.569	629.645	615.722	615.206	614.691	614.175	613.659	613.144
10.0	613.659	615.722	617.785	619.847	621.910	607.987	594.063	580.140	566.217	552.293

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CANDELA TABULATION - (Cont.)

12.5	610.565	592.516	574.468	556.419	538.370	532.698	527.025	521.353	515.680	510.008
15.0	553.841	546.105	538.370	530.635	522.900	512.071	501.241	490.412	479.583	468.753
17.5	503.304	490.412	477.520	464.628	451.736	444.517	437.297	430.078	422.858	415.639
20.0	467.206	453.283	439.360	425.436	411.513	405.325	399.137	392.949	386.760	380.572
22.5	429.046	416.154	403.262	390.370	377.478	369.227	360.976	352.726	344.475	336.224
25.0	400.168	386.760	373.352	359.945	346.537	334.676	322.816	310.955	299.094	287.234
27.5	356.851	343.443	330.035	316.628	303.220	293.422	283.624	273.826	264.028	254.230
30.0	338.286	323.331	308.377	293.422	278.467	266.091	253.714	241.338	228.962	216.585
32.5	302.189	286.202	270.216	254.230	238.244	227.415	216.586	205.757	194.927	184.098
35.0	276.405	259.903	243.401	226.900	210.398	201.116	191.833	182.551	173.269	163.986
37.5	253.715	238.244	222.774	207.304	191.833	183.067	174.300	165.534	156.767	148.001
40.0	221.743	207.303	192.864	178.425	163.986	157.282	150.578	143.875	137.171	130.467
42.5	198.021	184.098	170.175	156.251	142.328	136.656	130.983	125.311	119.638	113.966
45.0	171.206	157.798	144.390	130.983	117.575	113.450	109.324	105.199	101.073	96.948
47.5	146.454	134.593	122.732	110.872	99.011	95.401	91.791	88.182	84.572	80.962
50.0	128.920	117.575	106.230	94.885	83.540	80.446	77.352	74.258	71.164	68.070
52.5	107.261	97.463	87.666	77.868	68.070	66.007	63.944	61.882	59.819	57.756
55.0	88.697	81.994	75.290	68.586	61.882	59.304	56.725	54.147	51.568	48.990
57.5	69.101	64.976	60.850	56.725	52.599	50.536	48.474	46.411	44.348	42.286
60.0	61.882	58.788	55.693	52.599	49.505	46.411	43.317	40.223	37.129	34.035
62.5	56.725	52.600	48.474	44.349	40.223	37.645	35.066	32.488	29.910	27.331
65.0	51.568	47.959	44.349	40.739	37.129	33.519	29.909	26.300	22.690	19.080
67.5	47.442	43.317	39.192	35.066	30.941	27.847	24.753	21.659	18.564	15.470
70.0	43.317	38.676	34.035	29.394	24.753	23.206	21.659	20.112	18.564	17.017
72.5	39.192	35.582	31.972	28.363	24.753	23.206	21.659	20.112	18.564	17.017
75.0	34.035	30.941	27.847	24.753	21.659	20.112	18.565	17.018	15.470	13.923
77.5	31.972	29.394	26.816	24.237	21.659	20.112	18.565	17.018	15.470	13.923
80.0	31.972	29.394	26.816	24.237	21.659	20.112	18.565	17.018	15.470	13.923
82.5	30.941	27.847	24.752	21.658	18.564	17.533	16.501	15.470	14.439	13.407
85.0	28.878	26.300	23.721	21.143	18.564	18.048	17.533	17.017	16.501	15.986
87.5	31.972	29.394	26.816	24.237	21.659	20.112	18.565	17.018	15.470	13.923
90.0	26.815	24.753	22.690	20.627	18.564	18.048	17.533	17.017	16.501	15.986
92.5	26.815	24.753	22.690	20.627	18.564	17.533	16.501	15.470	14.439	13.407
95.0	23.721	21.659	19.596	17.533	15.470	14.954	14.439	13.923	13.407	12.892
97.5	23.721	21.659	19.596	17.533	15.470	14.954	14.439	13.923	13.407	12.892
100.0	22.690	20.112	17.533	14.955	12.376	12.376	12.376	12.376	12.376	12.376
102.5	21.659	20.112	18.564	17.017	15.470	14.954	14.439	13.923	13.407	12.892
105.0	19.596	18.565	17.533	16.502	15.470	14.954	14.439	13.923	13.407	12.892
107.5	19.596	18.565	17.533	16.502	15.470	14.954	14.439	13.923	13.407	12.892
110.0	19.596	18.565	17.533	16.502	15.470	14.954	14.439	13.923	13.407	12.892
112.5	16.501	15.470	14.439	13.407	12.376	12.376	12.376	12.376	12.376	12.376
115.0	16.501	15.470	14.439	13.407	12.376	12.892	13.407	13.923	14.439	14.954
117.5	16.501	15.470	14.439	13.407	12.376	12.892	13.407	13.923	14.439	14.954
120.0	16.501	15.470	14.439	13.407	12.376	12.376	12.376	12.376	12.376	12.376
122.5	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
125.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
127.5	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
130.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
132.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
135.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
137.5	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923	13.407	12.892
140.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
142.5	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
145.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
147.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
150.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376

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CANDELA TABULATION - (Cont.)

152.5	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
155.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
157.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
160.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
165.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
167.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
170.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923	13.407	12.892
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	770.426	770.426	770.426	770.426	770.426	770.426	770.426	767.848	765.269	762.691
5.0	668.322	668.838	669.353	669.869	670.385	670.900	671.416	668.838	666.259	663.681
7.5	612.628	612.628	612.628	612.628	612.628	612.628	612.628	611.597	610.565	609.534
10.0	538.370	535.276	532.182	529.088	525.994	522.900	519.806	520.837	521.869	522.900
12.5	504.335	503.819	503.304	502.788	502.272	501.757	501.241	498.663	496.084	493.506
15.0	457.924	452.252	446.579	440.907	435.234	429.562	423.889	425.436	426.983	428.530
17.5	408.419	406.356	404.293	402.231	400.168	398.105	396.042	393.464	390.885	388.307
20.0	374.384	367.680	360.976	354.273	347.569	340.865	334.161	335.708	337.255	338.802
22.5	327.973	321.269	314.565	307.862	301.158	294.454	287.750	286.719	285.687	284.656
25.0	275.373	271.763	268.154	264.544	260.934	257.325	253.715	251.137	248.558	245.980
27.5	244.432	237.728	231.024	224.321	217.617	210.913	204.209	201.631	199.052	196.474
30.0	204.209	200.084	195.958	191.833	187.708	183.582	179.457	177.910	176.363	174.816
32.5	173.269	171.206	169.143	167.081	165.018	162.955	160.892	159.345	157.798	156.251
35.0	154.704	152.641	150.579	148.516	146.453	144.391	142.328	141.297	140.265	139.234
37.5	139.234	136.656	134.077	131.499	128.920	126.342	123.763	122.732	121.700	120.669
40.0	123.763	121.185	118.606	116.028	113.450	110.871	108.293	107.262	106.230	105.199
42.5	108.293	105.715	103.136	100.558	97.979	95.401	92.822	91.791	90.759	89.728
45.0	92.822	91.275	89.728	88.181	86.634	85.087	83.540	82.509	81.477	80.446
47.5	77.352	75.805	74.258	72.711	71.164	69.617	68.070	68.070	68.070	68.070
50.0	64.976	63.945	62.913	61.882	60.851	59.819	58.788	58.272	57.756	57.241
52.5	55.693	54.662	53.630	52.599	51.568	50.536	49.505	48.989	48.474	47.958
55.0	46.411	45.380	44.348	43.317	42.286	41.254	40.223	40.223	40.223	40.223
57.5	40.223	39.192	38.160	37.129	36.098	35.066	34.035	33.519	33.004	32.488
60.0	30.941	29.910	28.878	27.847	26.816	25.784	24.753	24.237	23.722	23.206
62.5	24.753	23.206	21.659	20.112	18.564	17.017	15.470	14.954	14.439	13.923
65.0	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
67.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
70.0	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
72.5	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
75.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
77.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
80.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
82.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923
85.0	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
87.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
90.0	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
92.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
95.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
97.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376

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CANDELA TABULATION - (Cont.)

100.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
102.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
105.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
107.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
110.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470	15.470	15.470
112.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
115.0	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923
117.5	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
120.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
122.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
125.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
127.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
130.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
132.5	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
135.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923
137.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
140.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
142.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
145.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
147.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
150.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923
155.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
157.5	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.892	13.407	13.923
160.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
162.5	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
165.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923
167.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923
170.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	760.113	757.534	754.956	755.472	755.987	756.503	757.019	757.534	758.050	757.534
5.0	661.102	658.524	655.945	656.976	658.008	659.039	660.070	661.102	662.133	666.259
7.5	608.503	607.471	606.440	606.956	607.471	607.987	608.503	609.018	609.534	611.081
10.0	523.931	524.963	525.994	525.994	525.994	525.994	525.994	525.994	525.994	529.604
12.5	490.928	488.349	485.771	488.349	490.928	493.506	496.084	498.663	501.241	503.304
15.0	430.077	431.624	433.171	430.077	426.983	423.889	420.795	417.701	414.607	420.795
17.5	385.729	383.150	380.572	382.119	383.666	385.213	386.760	388.307	389.854	392.948
20.0	340.349	341.896	343.443	341.896	340.349	338.802	337.255	335.708	334.161	342.928
22.5	283.624	282.593	281.561	284.140	286.718	289.297	291.875	294.454	297.032	302.189
25.0	243.401	240.823	238.244	241.854	245.464	249.074	252.683	256.293	259.903	265.060
27.5	193.896	191.317	188.739	191.317	193.896	196.474	199.052	201.631	204.209	211.429
30.0	173.269	171.722	170.175	171.206	172.238	173.269	174.300	175.332	176.363	181.520
32.5	154.704	153.157	151.610	152.641	153.673	154.704	155.735	156.767	157.798	160.892
35.0	138.203	137.171	136.140	137.171	138.203	139.234	140.265	141.297	142.328	144.906
37.5	119.638	118.606	117.575	119.122	120.669	122.216	123.763	125.310	126.857	128.920
40.0	104.168	103.136	102.105	103.652	105.199	106.746	108.293	109.840	111.387	113.450
42.5	88.697	87.665	86.634	88.181	89.728	91.276	92.823	94.370	95.917	97.980
45.0	79.415	78.383	77.352	78.383	79.415	80.446	81.477	82.509	83.540	85.087

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CANDELA TABULATION - (Cont.)

47.5	68.070	68.070	68.070	68.070	68.070	68.070	68.070	68.070	68.070	70.648
50.0	56.725	56.209	55.693	56.725	57.756	58.788	59.819	60.851	61.882	62.913
52.5	47.442	46.927	46.411	46.927	47.442	47.958	48.474	48.989	49.505	51.568
55.0	40.223	40.223	40.223	40.739	41.254	41.770	42.286	42.801	43.317	44.348
57.5	31.972	31.457	30.941	31.457	31.972	32.488	33.004	33.519	34.035	35.066
60.0	22.690	22.175	21.659	22.175	22.690	23.206	23.722	24.237	24.753	26.300
62.5	13.407	12.892	12.376	12.892	13.407	13.923	14.439	14.954	15.470	17.017
65.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	13.407
67.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
70.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
72.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
75.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
77.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
80.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
82.5	14.439	14.954	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470
85.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
87.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
90.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
92.5	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
95.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
97.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
100.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
102.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
105.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
107.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
110.0	15.470	15.470	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
112.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
115.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
117.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
120.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
122.5	13.407	12.892	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470
125.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
127.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
130.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
132.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
135.0	14.439	14.954	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954
137.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
140.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
142.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
145.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
147.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
150.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
152.5	14.439	14.954	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954
155.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
157.5	14.439	14.954	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954
160.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892
165.0	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
167.5	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
170.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470
172.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

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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	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	757.019	756.503	755.987	755.472	754.956	755.472	755.987	756.503	757.019	757.534
5.0	670.384	674.510	678.635	682.761	686.886	693.074	699.262	705.451	711.639	717.827
7.5	612.628	614.175	615.722	617.269	618.816	618.300	617.785	617.269	616.753	616.238
10.0	533.213	536.823	540.433	544.042	547.652	561.060	574.467	587.875	601.283	614.690
12.5	505.366	507.429	509.492	511.554	513.617	519.290	524.962	530.635	536.307	541.980
15.0	426.983	433.172	439.360	445.548	451.736	463.597	475.457	487.318	499.179	511.039
17.5	396.042	399.137	402.231	405.325	408.419	417.186	425.952	434.719	443.485	452.252
20.0	351.694	360.461	369.227	377.994	386.760	392.433	398.105	403.778	409.450	415.123
22.5	307.346	312.503	317.659	322.816	327.973	337.255	346.537	355.820	365.102	374.384
25.0	270.217	275.374	280.530	285.687	290.844	300.126	309.408	318.691	327.973	337.255
27.5	218.648	225.868	233.088	240.307	247.527	258.356	269.185	280.015	290.844	301.673
30.0	186.676	191.833	196.990	202.146	207.303	220.195	233.087	245.980	258.872	271.764
32.5	163.986	167.081	170.175	173.269	176.363	188.739	201.116	213.492	225.868	238.245
35.0	147.485	150.063	152.641	155.220	157.798	168.627	179.457	190.286	201.115	211.945
37.5	130.983	133.046	135.108	137.171	139.234	148.001	156.767	165.534	174.300	183.067
40.0	115.512	117.575	119.638	121.700	123.763	131.498	139.234	146.969	154.704	162.440
42.5	100.042	102.105	104.168	106.230	108.293	114.481	120.669	126.858	133.046	139.234
45.0	86.634	88.181	89.728	91.275	92.822	97.979	103.136	108.293	113.449	118.606
47.5	73.227	75.805	78.383	80.962	83.540	87.666	91.791	95.917	100.042	104.168
50.0	63.945	64.976	66.007	67.039	68.070	71.680	75.289	78.899	82.509	86.118
52.5	53.631	55.694	57.756	59.819	61.882	64.460	67.039	69.617	72.195	74.774
55.0	45.380	46.411	47.442	48.474	49.505	52.084	54.662	57.241	59.819	62.398
57.5	36.098	37.129	38.160	39.192	40.223	42.286	44.348	46.411	48.474	50.536
60.0	27.847	29.394	30.941	32.488	34.035	36.098	38.160	40.223	42.286	44.348
62.5	18.564	20.112	21.659	23.206	24.753	27.847	30.941	34.035	37.129	40.223
65.0	14.439	15.470	16.501	17.533	18.564	21.658	24.752	27.847	30.941	34.035
67.5	13.407	13.923	14.439	14.954	15.470	18.049	20.627	23.206	25.784	28.363
70.0	13.407	13.923	14.439	14.954	15.470	17.533	19.596	21.659	23.721	25.784
72.5	13.407	13.923	14.439	14.954	15.470	17.017	18.564	20.112	21.659	23.206
75.0	12.376	12.376	12.376	12.376	12.376	14.439	16.502	18.565	20.627	22.690
77.5	12.376	12.376	12.376	12.376	12.376	14.439	16.502	18.565	20.627	22.690
80.0	12.376	12.376	12.376	12.376	12.376	13.923	15.470	17.018	18.565	20.112
82.5	15.470	15.470	15.470	15.470	15.470	17.017	18.564	20.112	21.659	23.206
85.0	12.376	12.376	12.376	12.376	12.376	13.923	15.470	17.018	18.565	20.112
87.5	13.407	13.923	14.439	14.954	15.470	15.986	16.501	17.017	17.533	18.048
90.0	14.439	13.923	13.407	12.892	12.376	13.923	15.470	17.018	18.565	20.112
92.5	14.439	13.923	13.407	12.892	12.376	13.407	14.439	15.470	16.501	17.533
95.0	12.376	12.376	12.376	12.376	12.376	13.407	14.439	15.470	16.501	17.533
97.5	13.407	13.923	14.439	14.954	15.470	15.986	16.501	17.017	17.533	18.048
100.0	12.376	12.376	12.376	12.376	12.376	13.407	14.439	15.470	16.501	17.533
102.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
105.0	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
107.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
110.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
112.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
115.0	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
117.5	13.407	13.923	14.439	14.954	15.470	15.470	15.470	15.470	15.470	15.470
120.0	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
122.5	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470
125.0	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
127.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
130.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376

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CANDELA TABULATION - (Cont.)

132.5	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
135.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
137.5	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
140.0	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
142.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
145.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
147.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
150.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
152.5	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
155.0	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
157.5	14.439	13.923	13.407	12.892	12.376	12.892	13.407	13.923	14.439	14.954
160.0	13.407	13.923	14.439	14.954	15.470	15.470	15.470	15.470	15.470	15.470
162.5	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892
165.0	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
167.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
170.0	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923	13.407	12.892
172.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

**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	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	758.050	760.113	762.175	764.238	766.301	768.363	770.426	767.332	764.238	761.144
5.0	724.015	725.562	727.109	728.656	730.203	731.750	733.297	732.781	732.266	731.750
7.5	615.722	634.287	652.851	671.416	689.980	708.545	727.109	735.876	744.642	753.409
10.0	628.098	625.520	622.941	620.363	617.785	615.206	612.628	633.255	653.882	674.510
12.5	547.652	561.576	575.499	589.423	603.346	617.270	631.193	644.085	656.977	669.869
15.0	522.900	532.698	542.496	552.294	562.091	571.889	581.687	598.189	614.691	631.193
17.5	461.018	474.426	487.833	501.241	514.649	528.056	541.464	557.966	574.468	590.970
20.0	420.795	433.687	446.579	459.471	472.363	485.255	498.147	514.649	531.151	547.653
22.5	383.666	396.558	409.450	422.342	435.234	448.126	461.018	483.192	505.367	527.541
25.0	346.537	360.460	374.384	388.307	402.230	416.154	430.077	450.704	471.332	491.959
27.5	312.502	325.910	339.317	352.725	366.133	379.540	392.948	416.669	440.391	464.112
30.0	284.656	298.579	312.503	326.426	340.349	354.273	368.196	394.496	420.795	447.095
32.5	250.621	266.607	282.593	298.579	314.565	330.551	346.537	371.805	397.074	422.342
35.0	222.774	238.244	253.715	269.185	284.655	300.126	315.596	342.412	369.227	396.043
37.5	191.833	207.304	222.774	238.245	253.715	269.186	284.656	309.409	334.161	358.914
40.0	170.175	184.098	198.022	211.945	225.868	239.792	253.715	280.530	307.346	334.161
42.5	145.422	159.861	174.300	188.739	203.178	217.617	232.056	257.324	282.593	307.861
45.0	123.763	137.171	150.578	163.986	177.394	190.801	204.209	228.446	252.683	276.920
47.5	108.293	120.154	132.014	143.875	155.736	167.596	179.457	201.631	223.805	245.980
50.0	89.728	101.073	112.418	123.763	135.108	146.453	157.798	179.972	202.147	224.321
52.5	77.352	86.634	95.917	105.199	114.481	123.764	133.046	154.189	175.332	196.475
55.0	64.976	72.711	80.446	88.182	95.917	103.652	111.387	132.014	152.641	173.269
57.5	52.599	58.787	64.975	71.164	77.352	83.540	89.728	109.840	129.951	150.063
60.0	46.411	51.052	55.693	60.335	64.976	69.617	74.258	93.338	112.418	131.499
62.5	43.317	46.411	49.505	52.600	55.694	58.788	61.882	79.415	96.948	114.481
65.0	37.129	40.739	44.349	47.959	51.568	55.178	58.788	72.196	85.603	99.011
67.5	30.941	35.066	39.192	43.317	47.442	51.568	55.693	66.007	76.320	86.634
70.0	27.847	32.488	37.129	41.770	46.411	51.052	55.693	61.881	68.069	74.258
72.5	24.753	28.878	33.004	37.129	41.254	45.380	49.505	53.115	56.725	60.335
75.0	24.753	28.363	31.972	35.582	39.192	42.801	46.411	49.505	52.599	55.694
77.5	24.753	27.847	30.941	34.035	37.129	40.223	43.317	45.380	47.442	49.505

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CANDELA TABULATION - (Cont.)

80.0	21.659	24.753	27.847	30.941	34.035	37.129	40.223	41.770	43.317	44.864
82.5	24.753	26.816	28.878	30.941	33.004	35.066	37.129	38.676	40.223	41.770
85.0	21.659	24.237	26.816	29.394	31.972	34.551	37.129	38.160	39.192	40.223
87.5	18.564	21.658	24.752	27.847	30.941	34.035	37.129	38.160	39.192	40.223
90.0	21.659	24.237	26.816	29.394	31.972	34.551	37.129	38.676	40.223	41.770
92.5	18.564	21.658	24.752	27.847	30.941	34.035	37.129	39.192	41.254	43.317
95.0	18.564	21.143	23.721	26.300	28.878	31.457	34.035	36.613	39.192	41.770
97.5	18.564	20.627	22.690	24.753	26.815	28.878	30.941	33.519	36.098	38.676
100.0	18.564	20.627	22.690	24.753	26.815	28.878	30.941	33.004	35.066	37.129
102.5	15.470	17.533	19.596	21.659	23.721	25.784	27.847	30.425	33.004	35.582
105.0	15.470	17.017	18.564	20.112	21.659	23.206	24.753	27.331	29.910	32.488
107.5	15.470	17.017	18.564	20.112	21.659	23.206	24.753	26.816	28.878	30.941
110.0	12.376	13.923	15.470	17.018	18.565	20.112	21.659	24.237	26.816	29.394
112.5	15.470	15.986	16.501	17.017	17.533	18.048	18.564	21.143	23.721	26.300
115.0	15.470	15.986	16.501	17.017	17.533	18.048	18.564	20.627	22.690	24.753
117.5	15.470	15.986	16.501	17.017	17.533	18.048	18.564	20.627	22.690	24.753
120.0	15.470	15.470	15.470	15.470	15.470	15.470	15.470	17.017	18.564	20.112
122.5	15.470	15.470	15.470	15.470	15.470	15.470	15.470	17.017	18.564	20.112
125.0	15.470	15.986	16.501	17.017	17.533	18.048	18.564	19.080	19.596	20.112
127.5	15.470	15.986	16.501	17.017	17.533	18.048	18.564	19.080	19.596	20.112
130.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.986	16.501	17.017
132.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.986	16.501	17.017
135.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	13.407	14.439	15.470
137.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470	15.470	15.470
140.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470	15.470	15.470
142.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470	15.470	15.470
145.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470	15.470	15.470
147.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
150.0	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
157.5	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470
160.0	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
167.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923
170.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

**Vert.
Angles**

Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	758.050	754.956	751.862	751.346	750.831	750.315	749.799	749.284	748.768	751.346
5.0	731.234	730.719	730.203	727.625	725.046	722.468	719.890	717.311	714.733	722.984
7.5	762.175	770.941	779.708	774.551	769.395	764.238	759.081	753.925	748.768	759.081
10.0	695.137	715.764	736.391	741.548	746.705	751.861	757.018	762.175	767.332	785.381
12.5	682.761	695.653	708.545	710.608	712.670	714.733	716.796	718.858	720.921	739.485
15.0	647.694	664.196	680.698	687.402	694.106	700.809	707.513	714.217	720.921	739.485
17.5	607.471	623.973	640.475	656.461	672.447	688.433	704.419	720.405	736.391	752.377
20.0	564.154	580.656	597.158	616.238	635.318	654.398	673.479	692.559	711.639	729.688
22.5	549.715	571.890	594.064	612.628	631.193	649.757	668.322	686.886	705.451	722.984
25.0	512.586	533.214	553.841	579.625	605.409	631.193	656.977	682.761	708.545	727.625

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CANDELA TABULATION - (Cont.)

27.5	487.833	511.555	535.276	561.576	587.875	614.175	640.475	666.774	693.074	709.060
30.0	473.395	499.694	525.994	551.262	576.531	601.799	627.067	652.336	677.604	700.810
32.5	447.610	472.879	498.147	525.478	552.809	580.140	607.471	634.802	662.133	685.339
35.0	422.858	449.673	476.489	502.789	529.088	555.388	581.688	607.987	634.287	661.618
37.5	383.666	408.418	433.171	465.143	497.115	529.087	561.060	593.032	625.004	650.788
40.0	360.976	387.792	414.607	444.001	473.395	502.788	532.182	561.576	590.970	618.817
42.5	333.129	358.398	383.666	413.060	442.454	471.847	501.241	530.635	560.029	588.391
45.0	301.157	325.394	349.631	379.025	408.419	437.812	467.206	496.600	525.994	554.356
47.5	268.154	290.328	312.502	341.896	371.290	400.683	430.077	459.471	488.865	520.837
50.0	246.495	268.670	290.844	316.112	341.381	366.649	391.917	417.186	442.454	475.973
52.5	217.617	238.760	259.903	286.718	313.534	340.349	367.164	393.980	420.795	451.736
55.0	193.896	214.523	235.150	259.903	284.655	309.408	334.161	358.913	383.666	416.669
57.5	170.175	190.286	210.398	237.213	264.029	290.844	317.659	344.475	371.290	401.199
60.0	150.579	169.659	188.739	213.492	238.244	262.997	287.750	312.502	337.255	368.711
62.5	132.014	149.547	167.080	191.317	215.554	239.791	264.028	288.265	312.502	342.411
65.0	112.419	125.826	139.234	164.502	189.771	215.039	240.307	265.576	290.844	321.269
67.5	96.948	107.261	117.575	142.843	168.112	193.380	218.648	243.917	269.185	297.547
70.0	80.446	86.634	92.822	118.606	144.390	170.174	195.959	221.743	247.527	274.858
72.5	63.944	67.554	71.164	96.948	122.732	148.516	174.300	200.084	225.868	251.652
75.0	58.788	61.882	64.976	86.634	108.293	129.951	151.610	173.268	194.927	220.711
77.5	51.568	53.630	55.693	73.226	90.759	108.292	125.826	143.359	160.892	187.707
80.0	46.411	47.958	49.505	60.850	72.195	83.540	94.885	106.230	117.575	145.937
82.5	43.317	44.864	46.411	52.083	57.756	63.428	69.101	74.773	80.446	108.808
85.0	41.254	42.286	43.317	45.380	47.442	49.505	51.568	53.630	55.693	81.993
87.5	41.254	42.286	43.317	42.801	42.286	41.770	41.254	40.739	40.223	61.882
90.0	43.317	44.864	46.411	44.348	42.286	40.223	38.160	36.098	34.035	50.021
92.5	45.380	47.442	49.505	46.927	44.348	41.770	39.192	36.613	34.035	43.833
95.0	44.348	46.927	49.505	46.927	44.348	41.770	39.192	36.613	34.035	39.707
97.5	41.254	43.833	46.411	44.864	43.317	41.770	40.223	38.676	37.129	40.739
100.0	39.192	41.254	43.317	43.317	43.317	43.317	43.317	43.317	43.317	44.864
102.5	38.160	40.739	43.317	43.317	43.317	43.317	43.317	43.317	43.317	44.348
105.0	35.066	37.645	40.223	41.254	42.286	43.317	44.348	45.380	46.411	46.927
107.5	33.004	35.066	37.129	38.676	40.223	41.770	43.317	44.864	46.411	46.411
110.0	31.972	34.551	37.129	38.676	40.223	41.770	43.317	44.864	46.411	46.411
112.5	28.878	31.456	34.035	35.582	37.129	38.676	40.223	41.770	43.317	43.317
115.0	26.815	28.878	30.941	32.488	34.035	35.582	37.129	38.676	40.223	40.223
117.5	26.815	28.878	30.941	31.972	33.004	34.035	35.066	36.098	37.129	37.645
120.0	21.659	23.206	24.753	26.300	27.847	29.394	30.941	32.488	34.035	34.551
122.5	21.659	23.206	24.753	25.784	26.816	27.847	28.878	29.910	30.941	30.941
125.0	20.627	21.143	21.659	22.690	23.722	24.753	25.784	26.816	27.847	28.363
127.5	20.627	21.143	21.659	22.175	22.690	23.206	23.722	24.237	24.753	25.269
130.0	17.533	18.048	18.564	19.596	20.627	21.659	22.690	23.722	24.753	24.237
132.5	17.533	18.048	18.564	18.564	18.564	18.564	18.564	18.564	18.564	19.080
135.0	16.501	17.533	18.564	18.564	18.564	18.564	18.564	18.564	18.564	19.080
137.5	15.470	15.470	15.470	15.986	16.501	17.017	17.533	18.048	18.564	18.564
140.0	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470
142.5	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470
145.0	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470
147.5	13.407	12.892	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
150.0	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
152.5	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
155.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
157.5	15.470	15.470	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
160.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376

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CANDELA TABULATION - (Cont.)

167.5	14.439	14.954	15.470	15.470	15.470	15.470	15.470	15.470	15.470	14.954
170.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
172.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954
177.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

**Vert.
Angles**

Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	753.925	756.503	759.081	761.660	764.238	768.364	772.489	776.615	780.740	784.866
5.0	731.235	739.486	747.736	755.987	764.238	775.067	785.897	796.726	807.555	818.385
7.5	769.395	779.709	790.022	800.336	810.649	825.604	840.559	855.514	870.468	885.423
10.0	803.430	821.479	839.527	857.576	875.625	862.733	849.841	836.949	824.057	811.165
12.5	758.050	776.615	795.179	813.744	832.308	839.528	846.747	853.967	861.186	868.406
15.0	758.050	776.615	795.179	813.744	832.308	838.496	844.684	850.873	857.061	863.249
17.5	768.363	784.350	800.336	816.322	832.308	840.559	848.810	857.061	865.311	873.562
20.0	747.737	765.786	783.834	801.883	819.932	844.685	869.437	894.190	918.942	943.695
22.5	740.517	758.050	775.583	793.116	810.649	830.245	849.841	869.437	889.032	908.628
25.0	746.705	765.786	784.866	803.946	823.026	841.075	859.123	877.172	895.221	913.269
27.5	725.046	741.033	757.019	773.005	788.991	813.228	837.465	861.702	885.939	910.176
30.0	724.015	747.221	770.427	793.632	816.838	837.465	858.092	878.720	899.347	919.974
32.5	708.544	731.750	754.956	778.161	801.367	829.730	858.092	886.455	914.817	943.180
35.0	688.949	716.280	743.611	770.942	798.273	830.761	863.249	895.737	928.224	960.712
37.5	676.572	702.356	728.140	753.924	779.708	818.900	858.092	897.284	936.475	975.667
40.0	646.663	674.510	702.357	730.204	758.050	795.179	832.308	869.437	906.566	943.695
42.5	616.754	645.116	673.478	701.841	730.203	778.677	827.151	875.625	924.099	972.573
45.0	582.719	611.081	639.443	667.806	696.168	741.032	785.896	830.761	875.625	920.489
47.5	552.809	584.782	616.754	648.726	680.698	726.078	771.458	816.838	862.217	907.597
50.0	509.492	543.012	576.531	610.050	643.569	687.918	732.266	776.615	820.963	865.312
52.5	482.677	513.618	544.558	575.499	606.440	650.789	695.137	739.486	783.834	828.183
55.0	449.673	482.677	515.680	548.684	581.687	620.879	660.071	699.263	738.454	777.646
57.5	431.109	461.019	490.928	520.838	550.747	589.939	629.130	668.322	707.514	746.706
60.0	400.168	431.625	463.081	494.538	525.994	560.029	594.064	628.099	662.133	696.168
62.5	372.321	402.231	432.140	462.050	491.959	524.447	556.935	589.423	621.910	654.398
65.0	351.694	382.119	412.544	442.969	473.394	503.304	533.213	563.123	593.032	622.942
67.5	325.910	354.273	382.635	410.998	439.360	470.301	501.241	532.182	563.123	594.064
70.0	302.189	329.520	356.851	384.182	411.513	438.844	466.175	493.506	520.837	548.168
72.5	277.436	303.220	329.004	354.788	380.572	407.903	435.234	462.565	489.896	517.227
75.0	246.495	272.279	298.063	323.847	349.631	376.447	403.262	430.077	456.892	483.708
77.5	214.523	241.338	268.153	294.969	321.784	346.021	370.258	394.495	418.732	442.969
80.0	174.300	202.663	231.025	259.388	287.750	310.956	334.161	357.367	380.572	403.778
82.5	137.171	165.534	193.896	222.259	250.621	273.311	296.001	318.691	341.380	364.070
85.0	108.293	134.593	160.892	187.192	213.492	234.119	254.746	275.374	296.001	316.628
87.5	83.540	105.199	126.858	148.516	170.175	192.865	215.555	238.245	260.934	283.624
90.0	66.007	81.993	97.979	113.965	129.951	152.641	175.331	198.021	220.711	243.401
92.5	53.631	63.429	73.226	83.024	92.822	115.512	138.202	160.892	183.582	206.272
95.0	45.380	51.053	56.725	62.398	68.070	88.697	109.324	129.952	150.579	171.206
97.5	44.349	47.959	51.568	55.178	58.788	73.743	88.697	103.652	118.607	133.561
100.0	46.411	47.958	49.505	51.052	52.599	63.944	75.289	86.634	97.979	109.324
102.5	45.380	46.411	47.442	48.474	49.505	57.756	66.007	74.258	82.509	90.760
105.0	47.442	47.958	48.474	48.989	49.505	54.662	59.819	64.976	70.132	75.289
107.5	46.411	46.411	46.411	46.411	46.411	50.537	54.662	58.788	62.913	67.039
110.0	46.411	46.411	46.411	46.411	46.411	49.505	52.599	55.694	58.788	61.882
112.5	43.317	43.317	43.317	43.317	43.317	45.896	48.474	51.053	53.631	56.210

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CANDELA TABULATION - (Cont.)

115.0	40.223	40.223	40.223	40.223	40.223	42.801	45.380	47.958	50.536	53.115
117.5	38.160	38.676	39.192	39.707	40.223	42.286	44.348	46.411	48.474	50.536
120.0	35.066	35.582	36.098	36.613	37.129	38.676	40.223	41.770	43.317	44.864
122.5	30.941	30.941	30.941	30.941	30.941	32.488	34.035	35.582	37.129	38.676
125.0	28.878	29.394	29.910	30.425	30.941	31.972	33.004	34.035	35.066	36.098
127.5	25.784	26.300	26.816	27.331	27.847	28.363	28.878	29.394	29.910	30.425
130.0	23.722	23.206	22.690	22.175	21.659	22.175	22.690	23.206	23.722	24.237
132.5	19.596	20.112	20.627	21.143	21.659	21.659	21.659	21.659	21.659	21.659
135.0	19.596	20.112	20.627	21.143	21.659	21.659	21.659	21.659	21.659	21.659
137.5	18.564	18.564	18.564	18.564	18.564	18.564	18.564	18.564	18.564	18.564
140.0	15.470	15.470	15.470	15.470	15.470	15.986	16.501	17.017	17.533	18.048
142.5	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470	15.470
145.0	15.470	15.470	15.470	15.470	15.470	14.954	14.439	13.923	13.407	12.892
147.5	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
150.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
152.5	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
155.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
157.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
160.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
167.5	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
170.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
172.5	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954
175.0	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

**Vert.
Angles**

Horizontal Angles

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	788.991	798.789	808.587	818.385	828.182	837.980	847.778	847.262	846.747	846.231
5.0	829.214	835.402	841.590	847.779	853.967	860.155	866.343	868.921	871.500	874.078
7.5	900.378	885.939	871.500	857.061	842.621	828.182	813.743	819.416	825.088	830.761
10.0	798.273	814.775	831.277	847.779	864.280	880.782	897.284	897.284	897.284	897.284
12.5	875.625	883.360	891.095	898.831	906.566	914.301	922.036	938.538	955.040	971.542
15.0	869.437	897.284	925.130	952.977	980.824	1008.670	1036.517	1027.235	1017.953	1008.671
17.5	881.813	893.674	905.534	917.395	929.256	941.116	952.977	956.071	959.165	962.260
20.0	968.447	971.541	974.635	977.730	980.824	983.918	987.012	1009.702	1032.392	1055.082
22.5	928.224	937.506	946.789	956.071	965.353	974.636	983.918	1005.577	1027.235	1048.894
25.0	931.318	952.461	973.604	994.747	1015.890	1037.033	1058.176	1075.709	1093.242	1110.776
27.5	934.413	958.134	981.855	1005.577	1029.298	1053.019	1076.740	1096.852	1116.963	1137.075
30.0	940.601	970.510	1000.420	1030.329	1060.238	1090.148	1120.057	1148.935	1177.813	1206.692
32.5	971.542	996.295	1021.047	1045.800	1070.552	1095.305	1120.057	1140.684	1161.312	1181.939
35.0	993.200	1027.235	1061.270	1095.305	1129.339	1163.374	1197.409	1204.113	1210.817	1217.521
37.5	1014.859	1044.768	1074.678	1104.587	1134.496	1164.406	1194.315	1211.848	1229.381	1246.915
40.0	980.824	1013.312	1045.800	1078.288	1110.775	1143.263	1175.751	1192.253	1208.754	1225.256
42.5	1021.047	1043.221	1065.395	1087.570	1109.744	1131.918	1154.092	1166.984	1179.876	1192.768
45.0	965.353	991.137	1016.921	1042.705	1068.489	1094.273	1120.057	1150.998	1181.939	1212.880
47.5	952.977	984.949	1016.921	1048.894	1080.866	1112.838	1144.810	1156.671	1168.531	1180.392
50.0	909.660	945.758	981.855	1017.953	1054.051	1090.148	1126.246	1144.295	1162.343	1180.392
52.5	872.531	908.629	944.726	980.824	1016.922	1053.019	1089.117	1100.978	1112.838	1124.699
55.0	816.838	851.904	886.970	922.037	957.103	992.169	1027.235	1057.145	1087.054	1116.964
57.5	785.897	830.246	874.594	918.943	963.291	1007.640	1051.988	1062.302	1072.615	1082.929
60.0	730.203	771.973	813.743	855.514	897.284	939.054	980.824	1015.375	1049.925	1084.476

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CANDELA TABULATION - (Cont.)

62.5	686.886	733.813	780.740	827.667	874.593	921.520	968.447	993.715	1018.984	1044.252
65.0	652.851	690.496	728.140	765.785	803.430	841.074	878.719	908.629	938.538	968.448
67.5	625.004	665.743	706.482	747.221	787.959	828.698	869.437	892.127	914.817	937.507
70.0	575.499	609.018	642.537	676.057	709.576	743.095	776.614	806.008	835.402	864.796
72.5	544.558	579.624	614.691	649.757	684.823	719.890	754.956	782.803	810.649	838.496
75.0	510.523	536.823	563.123	589.423	615.722	642.022	668.322	698.231	728.141	758.050
77.5	467.206	495.569	523.931	552.294	580.656	609.019	637.381	671.932	706.482	741.033
80.0	426.983	454.830	482.677	510.524	538.370	566.217	594.064	617.785	641.506	665.228
82.5	386.760	411.513	436.265	461.018	485.771	510.523	535.276	564.154	593.032	621.911
85.0	337.255	359.429	381.603	403.778	425.952	448.126	470.300	495.053	519.805	544.558
87.5	306.314	327.457	348.600	369.743	390.885	412.028	433.171	457.408	481.645	505.882
90.0	266.091	285.171	304.251	323.332	342.412	361.492	380.572	400.684	420.795	440.907
92.5	228.962	246.495	264.028	281.562	299.095	316.628	334.161	348.084	362.008	375.931
95.0	191.833	205.241	218.648	232.056	245.464	258.871	272.279	291.359	310.439	329.520
97.5	148.516	163.471	178.425	193.380	208.335	223.289	238.244	252.167	266.091	280.014
100.0	120.669	134.592	148.516	162.439	176.362	190.286	204.209	217.617	231.025	244.433
102.5	99.011	111.903	124.795	137.687	150.579	163.471	176.363	187.708	199.053	210.398
105.0	80.446	91.791	103.136	114.481	125.826	137.171	148.516	160.377	172.237	184.098
107.5	71.164	79.931	88.697	97.464	106.230	114.997	123.763	134.077	144.390	154.704
110.0	64.976	72.196	79.415	86.635	93.854	101.074	108.293	116.544	124.795	133.046
112.5	58.788	63.945	69.101	74.258	79.415	84.571	89.728	96.948	104.167	111.387
115.0	55.693	59.819	63.944	68.070	72.195	76.321	80.446	87.150	93.854	100.558
117.5	52.599	55.178	57.756	60.335	62.913	65.492	68.070	74.774	81.478	88.182
120.0	46.411	48.990	51.568	54.147	56.725	59.304	61.882	67.039	72.195	77.352
122.5	40.223	42.801	45.380	47.958	50.536	53.115	55.693	59.819	63.944	68.070
125.0	37.129	39.707	42.286	44.864	47.442	50.021	52.599	56.209	59.819	63.429
127.5	30.941	33.519	36.098	38.676	41.254	43.833	46.411	48.990	51.568	54.147
130.0	24.753	27.331	29.910	32.488	35.066	37.645	40.223	42.801	45.380	47.958
132.5	21.659	23.722	25.784	27.847	29.910	31.972	34.035	36.098	38.160	40.223
135.0	21.659	22.690	23.722	24.753	25.784	26.816	27.847	29.910	31.972	34.035
137.5	18.564	19.596	20.627	21.659	22.690	23.722	24.753	26.300	27.847	29.394
140.0	18.564	18.564	18.564	18.564	18.564	18.564	18.564	20.111	21.658	23.206
142.5	15.470	15.470	15.470	15.470	15.470	15.470	15.470	17.017	18.564	20.112
145.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	13.407	14.439	15.470
147.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
150.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
157.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
160.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
167.5	12.376	12.892	13.407	13.923	14.439	14.954	15.470	14.954	14.439	13.923
170.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376	12.376	12.376
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.892	13.407	13.923
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624	750.624
2.5	845.715	845.200	844.684	844.684	844.684	844.684	844.684	844.684	844.684	845.200
5.0	876.656	879.235	881.813	872.015	862.217	852.420	842.622	832.824	823.026	820.448
7.5	836.433	842.106	847.778	862.733	877.688	892.643	907.597	922.552	937.507	934.929

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CANDELA TABULATION - (Cont.)

10.0	897.284	897.284	897.284	912.754	928.225	943.695	959.165	974.636	990.106	987.528
12.5	988.043	1004.545	1021.047	1016.406	1011.765	1007.124	1002.482	997.841	993.200	992.684
15.0	999.388	990.106	980.824	980.308	979.793	979.277	978.761	978.246	977.730	980.308
17.5	965.354	968.448	971.542	980.824	990.106	999.389	1008.671	1017.953	1027.235	1042.705
20.0	1077.771	1100.461	1123.151	1112.322	1101.493	1090.664	1079.834	1069.005	1058.176	1066.943
22.5	1070.552	1092.211	1113.869	1128.308	1142.747	1157.187	1171.626	1186.065	1200.504	1192.253
25.0	1128.309	1145.842	1163.375	1177.298	1191.222	1205.145	1219.068	1232.992	1246.915	1242.790
27.5	1157.186	1177.298	1197.409	1213.911	1230.413	1246.915	1263.416	1279.918	1296.420	1291.263
30.0	1235.570	1264.448	1293.326	1290.748	1288.169	1285.591	1283.013	1280.434	1277.856	1282.497
32.5	1202.566	1223.194	1243.821	1244.337	1244.852	1245.368	1245.884	1246.399	1246.915	1249.493
35.0	1224.224	1230.928	1237.632	1246.914	1256.197	1265.479	1274.761	1284.044	1293.326	1297.967
37.5	1264.448	1281.981	1299.514	1305.702	1311.890	1318.079	1324.267	1330.455	1336.643	1336.127
40.0	1241.758	1258.259	1274.761	1293.841	1312.921	1332.002	1351.082	1370.162	1389.242	1376.350
42.5	1205.660	1218.552	1231.444	1259.291	1287.138	1314.985	1342.831	1370.678	1398.525	1385.117
45.0	1243.820	1274.761	1305.702	1318.594	1331.486	1344.378	1357.270	1370.162	1383.054	1370.162
47.5	1192.253	1204.113	1215.974	1241.242	1266.511	1291.779	1317.047	1342.316	1367.584	1358.302
50.0	1198.441	1216.489	1234.538	1257.744	1280.949	1304.155	1327.361	1350.566	1373.772	1369.647
52.5	1136.559	1148.420	1160.280	1174.719	1189.158	1203.598	1218.037	1232.476	1246.915	1244.337
55.0	1146.873	1176.783	1206.692	1212.880	1219.068	1225.257	1231.445	1237.633	1243.821	1240.727
57.5	1093.242	1103.556	1113.869	1139.137	1164.406	1189.674	1214.942	1240.211	1265.479	1263.932
60.0	1119.026	1153.577	1188.127	1196.378	1204.629	1212.880	1221.130	1229.381	1237.632	1235.054
62.5	1069.520	1094.789	1120.057	1125.730	1131.402	1137.075	1142.747	1148.420	1154.092	1152.029
65.0	998.357	1028.267	1058.176	1067.974	1077.772	1087.570	1097.367	1107.165	1116.963	1120.057
67.5	960.196	982.886	1005.576	1021.047	1036.517	1051.988	1067.458	1082.929	1098.399	1099.946
70.0	894.189	923.583	952.977	958.134	963.291	968.448	973.604	978.761	983.918	987.012
72.5	866.343	894.189	922.036	931.318	940.601	949.883	959.165	968.448	977.730	987.528
75.0	787.959	817.869	847.778	860.154	872.531	884.907	897.283	909.660	922.036	923.583
77.5	775.583	810.134	844.684	848.810	852.935	857.061	861.186	865.312	869.437	877.172
80.0	688.949	712.670	736.391	749.799	763.207	776.615	790.022	803.430	816.838	818.385
82.5	650.789	679.667	708.545	717.312	726.078	734.845	743.611	752.378	761.144	769.911
85.0	569.311	594.063	618.816	635.834	652.851	669.869	686.886	703.904	720.921	725.047
87.5	530.119	554.356	578.593	583.234	587.875	592.517	597.158	601.799	606.440	610.566
90.0	461.018	481.130	501.241	502.788	504.335	505.882	507.429	508.976	510.523	515.164
92.5	389.854	403.778	417.701	432.140	446.579	461.018	475.457	489.896	504.335	508.461
95.0	348.600	367.680	386.760	389.854	392.948	396.043	399.137	402.231	405.325	410.998
97.5	293.937	307.861	321.784	333.129	344.474	355.819	367.164	378.509	389.854	395.527
100.0	257.840	271.248	284.656	290.844	297.032	303.220	309.408	315.596	321.784	326.425
102.5	221.742	233.087	244.432	249.589	254.746	259.903	265.059	270.216	275.373	280.014
105.0	195.959	207.819	219.680	225.868	232.056	238.245	244.433	250.621	256.809	259.903
107.5	165.018	175.331	185.645	189.771	193.896	198.022	202.147	206.273	210.398	214.008
110.0	141.296	149.547	157.798	161.924	166.049	170.175	174.300	178.426	182.551	185.645
112.5	118.607	125.826	133.046	137.171	141.297	145.422	149.547	153.673	157.798	160.377
115.0	107.261	113.965	120.669	123.248	125.826	128.405	130.983	133.562	136.140	138.718
117.5	94.885	101.589	108.293	110.356	112.418	114.481	116.544	118.606	120.669	122.732
120.0	82.509	87.665	92.822	95.401	97.979	100.558	103.136	105.715	108.293	109.840
122.5	72.195	76.321	80.446	83.025	85.603	88.182	90.760	93.339	95.917	97.464
125.0	67.038	70.648	74.258	75.805	77.352	78.899	80.446	81.993	83.540	84.571
127.5	56.725	59.304	61.882	63.945	66.007	68.070	70.133	72.195	74.258	75.289
130.0	50.536	53.115	55.693	57.240	58.787	60.335	61.882	63.429	64.976	65.492
132.5	42.286	44.348	46.411	48.474	50.537	52.600	54.662	56.725	58.788	59.304
135.0	36.098	38.160	40.223	41.770	43.317	44.864	46.411	47.958	49.505	50.021
137.5	30.941	32.488	34.035	35.582	37.129	38.676	40.223	41.770	43.317	43.833
140.0	24.753	26.300	27.847	29.394	30.941	32.488	34.035	35.582	37.129	37.645
142.5	21.659	23.206	24.753	25.784	26.816	27.847	28.878	29.910	30.941	31.972
145.0	16.501	17.533	18.564	19.596	20.627	21.659	22.690	23.722	24.753	25.269
147.5	12.376	12.376	12.376	13.407	14.439	15.470	16.501	17.533	18.564	19.080

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CANDELA TABULATION - (Cont.)

150.0	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470
152.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
157.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
160.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
165.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	11.860
167.5	13.407	12.892	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
170.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
172.5	12.376	12.376	12.376	12.892	13.407	13.923	14.439	14.954	15.470	15.470
175.0	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376	12.376
177.5	14.439	14.954	15.470	14.954	14.439	13.923	13.407	12.892	12.376	12.376
180.0	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000	12.000

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	750.624	750.624	750.624	750.624	750.624
2.5	845.715	846.231	846.747	847.262	847.778
5.0	817.869	815.291	812.712	810.134	807.555
7.5	932.350	929.772	927.193	924.615	922.036
10.0	984.949	982.371	979.793	977.214	974.636
12.5	992.169	991.653	991.137	990.622	990.106
15.0	982.887	985.465	988.043	990.622	993.200
17.5	1058.176	1073.646	1089.116	1104.587	1120.057
20.0	1075.709	1084.476	1093.242	1102.009	1110.775
22.5	1184.002	1175.751	1167.500	1159.249	1150.998
25.0	1238.664	1234.539	1230.413	1226.288	1222.162
27.5	1286.106	1280.950	1275.793	1270.636	1265.479
30.0	1287.138	1291.779	1296.420	1301.061	1305.702
32.5	1252.072	1254.650	1257.228	1259.807	1262.385
35.0	1302.608	1307.250	1311.891	1316.532	1321.173
37.5	1335.612	1335.096	1334.580	1334.065	1333.549
40.0	1363.458	1350.566	1337.674	1324.782	1311.890
42.5	1371.710	1358.302	1344.894	1331.487	1318.079
45.0	1357.270	1344.378	1331.486	1318.594	1305.702
47.5	1349.019	1339.737	1330.455	1321.172	1311.890
50.0	1365.521	1361.396	1357.270	1353.145	1349.019
52.5	1241.758	1239.180	1236.601	1234.023	1231.444
55.0	1237.633	1234.539	1231.444	1228.350	1225.256
57.5	1262.385	1260.838	1259.291	1257.744	1256.197
60.0	1232.475	1229.897	1227.319	1224.740	1222.162
62.5	1149.967	1147.904	1145.841	1143.779	1141.716
65.0	1123.151	1126.246	1129.340	1132.434	1135.528
67.5	1101.493	1103.040	1104.587	1106.134	1107.681
70.0	990.106	993.200	996.294	999.388	1002.482
72.5	997.326	1007.124	1016.921	1026.719	1036.517
75.0	925.130	926.677	928.224	929.771	931.318
77.5	884.907	892.643	900.378	908.113	915.848
80.0	819.932	821.479	823.026	824.573	826.120
82.5	778.677	787.444	796.210	804.977	813.743
85.0	729.172	733.298	737.423	741.549	745.674
87.5	614.691	618.817	622.942	627.068	631.193
90.0	519.805	524.447	529.088	533.729	538.370
92.5	512.586	516.712	520.837	524.963	529.088
95.0	416.670	422.343	428.015	433.688	439.360

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CANDELA TABULATION - (Cont.)

97.5	401.199	406.872	412.544	418.217	423.889
100.0	331.066	335.708	340.349	344.990	349.631
102.5	284.655	289.297	293.938	298.579	303.220
105.0	262.997	266.091	269.185	272.279	275.373
107.5	217.617	221.227	224.837	228.446	232.056
110.0	188.739	191.833	194.927	198.021	201.115
112.5	162.955	165.534	168.112	170.691	173.269
115.0	141.297	143.875	146.453	149.032	151.610
117.5	124.795	126.858	128.920	130.983	133.046
120.0	111.387	112.934	114.481	116.028	117.575
122.5	99.011	100.558	102.105	103.652	105.199
125.0	85.603	86.634	87.665	88.697	89.728
127.5	76.321	77.352	78.383	79.415	80.446
130.0	66.007	66.523	67.039	67.554	68.070
132.5	59.819	60.335	60.851	61.366	61.882
135.0	50.536	51.052	51.568	52.083	52.599
137.5	44.348	44.864	45.380	45.895	46.411
140.0	38.160	38.676	39.192	39.707	40.223
142.5	33.004	34.035	35.066	36.098	37.129
145.0	25.784	26.300	26.816	27.331	27.847
147.5	19.596	20.112	20.627	21.143	21.659
150.0	15.470	15.470	15.470	15.470	15.470
152.5	12.376	12.376	12.376	12.376	12.376
155.0	12.376	12.376	12.376	12.376	12.376
157.5	12.376	12.376	12.376	12.376	12.376
160.0	12.376	12.376	12.376	12.376	12.376
162.5	12.376	12.376	12.376	12.376	12.376
165.0	11.345	10.829	10.313	9.798	9.282
167.5	12.376	12.376	12.376	12.376	12.376
170.0	12.376	12.376	12.376	12.376	12.376
172.5	15.470	15.470	15.470	15.470	15.470
175.0	12.376	12.376	12.376	12.376	12.376
177.5	12.376	12.376	12.376	12.376	12.376
180.0	12.000	12.000	12.000	12.000	12.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	280.20	5.60	8.10
0-30	607.78	12.00	17.70
0-40	1034.56	20.50	30.00
0-60	1996.26	39.60	58.00
0-80	2802.68	55.60	81.40
0-90	3066.29	60.80	89.10
10-90	2993.37	59.30	86.90
20-40	754.36	15.00	21.90
20-50	1236.09	24.50	35.90
40-70	1402.14	27.80	40.70
60-80	806.42	16.00	23.40
70-80	365.98	7.30	10.60
80-90	263.61	5.20	7.70
90-110	251.59	5.00	7.30
90-120	305.51	6.10	8.90
90-130	337.78	6.70	9.80
90-150	365.87	7.30	10.60
90-180	376.80	7.50	10.90
110-180	125.21	2.50	3.60
0-180	3443.1	68.30	100.00

Total Luminaire Efficiency = 68.30%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.92
10-20	207.28
20-30	327.58
30-40	426.78
40-50	481.73
50-60	479.97
60-70	440.44
70-80	365.98
80-90	263.61
90-100	159.48
100-110	92.11
110-120	53.92
120-130	32.27
130-140	18.25
140-150	9.84
150-160	6.04
160-170	3.67
170-180	1.23

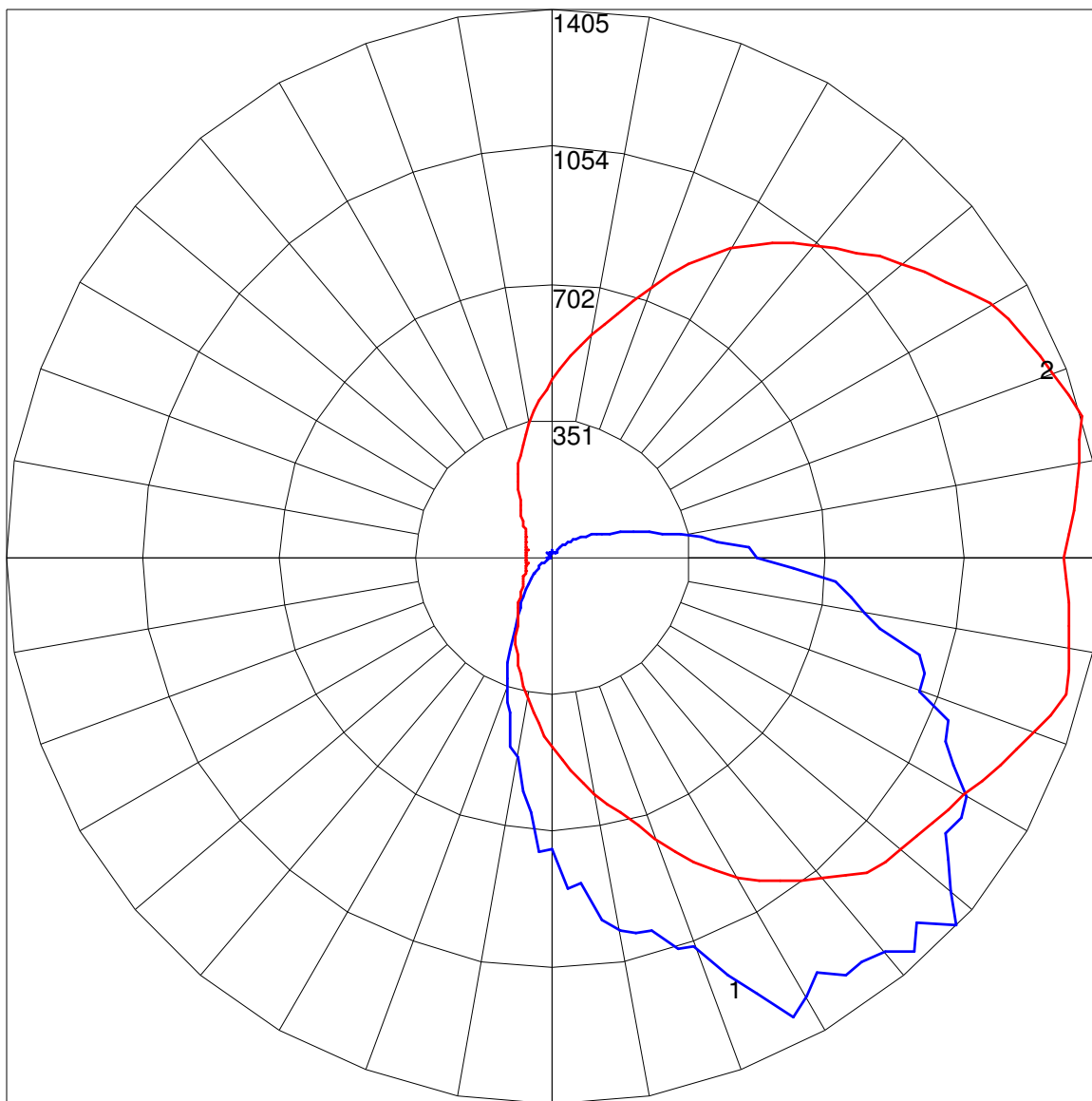
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	79	79	79	77	77	77	77	72	72	72	67	67	67	63	63	63	61
1	70	66	62	59	68	64	60	57	59	57	54	55	53	51	52	50	48	46
2	63	56	51	46	60	54	49	45	51	46	43	47	44	41	44	41	39	37
3	57	49	42	37	54	47	41	36	44	39	35	41	37	33	38	35	32	30
4	52	43	36	31	49	41	35	30	38	33	29	36	31	28	34	30	27	25
5	47	38	31	26	45	37	30	26	34	29	25	32	27	24	30	26	23	21
6	44	34	27	23	42	33	27	22	31	25	21	29	24	21	27	23	20	18
7	40	30	24	20	39	30	24	19	28	22	19	26	21	18	25	20	17	16
8	37	28	22	17	36	27	21	17	25	20	16	24	19	16	22	18	15	14
9	35	25	19	15	33	25	19	15	23	18	15	22	17	14	21	17	14	12
10	33	23	18	14	31	23	17	14	21	17	13	20	16	13	19	15	12	11

POLAR GRAPH



Maximum Candela = 1404.713 Located At Horizontal Angle = 15, Vertical Angle = 47.5
1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)