



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1410211019-002-001-P
[TESTLAB]Intertek
[ISSUE DATE]10/27/2014
[MANUFACTURER]LAMAR LIGHTING CO., INC.
[LUMCAT]MCNL48MFA50
[MORE]MED POWER SETTING (OUTPUT 880MA)
[LUMINAIRE]SURFACE MOUNT
[LAMP]LED
[LAMP CAT]NA. LUMINAIRE OUTPUT = 3817 LMS
[OTHER]120.03 VAC, 313.8 mA, 36 W, 0.9918 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3817
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.04
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9003	6333	3037
55	10824	6874	2420
65	13724	7639	1800
75	19890	9210	1258
85	46718	15045	484

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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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	909.216	908.959	908.702	908.446	908.192	907.941	907.692	905.890	905.176	904.406
5.0	941.710	941.225	940.742	940.261	939.784	937.606	936.392	935.050	933.585	932.000
7.5	975.898	975.187	974.477	973.772	971.259	969.551	967.629	965.500	963.168	960.640
10.0	1007.776	1006.901	1006.029	1003.811	1001.897	999.693	997.202	994.430	991.385	988.072
12.5	1040.270	1039.189	1038.112	1035.219	1032.745	1029.832	1026.654	1023.058	1019.110	1014.823
15.0	1071.224	1069.941	1068.664	1065.162	1062.175	1058.722	1054.814	1050.467	1045.698	1040.526
17.5	1099.406	1097.992	1095.441	1092.611	1089.222	1085.287	1080.818	1075.835	1070.358	1064.411
20.0	1128.820	1127.147	1124.013	1120.540	1116.380	1111.561	1106.114	1100.074	1093.460	1086.366
22.5	1156.540	1154.538	1150.824	1146.777	1141.930	1136.351	1130.086	1123.186	1115.702	1107.331
25.0	1179.178	1176.899	1172.903	1168.521	1163.354	1157.450	1150.863	1143.651	1135.303	1126.079
27.5	1200.122	1197.318	1192.587	1187.485	1181.599	1175.016	1167.823	1160.376	1152.052	1142.812
30.0	1217.216	1214.450	1209.556	1204.109	1197.605	1190.101	1183.591	1176.041	1167.383	1157.613
32.5	1234.618	1231.113	1225.090	1218.720	1211.701	1206.514	1199.457	1190.961	1182.102	1170.119
35.0	1248.786	1243.847	1237.621	1230.631	1226.946	1221.428	1213.625	1204.482	1193.383	1180.918
37.5	1260.644	1254.426	1246.914	1244.563	1241.235	1234.705	1225.714	1213.839	1202.291	1186.866
40.0	1270.038	1261.277	1258.591	1256.644	1249.910	1241.435	1230.669	1219.077	1205.453	1190.096
42.5	1273.734	1267.858	1266.692	1259.350	1251.493	1242.940	1233.298	1221.947	1207.867	1192.026
45.0	1272.348	1270.981	1267.868	1263.066	1255.975	1246.888	1236.248	1223.819	1208.563	1191.545
47.5	1273.734	1268.798	1265.289	1257.224	1251.213	1242.748	1232.243	1219.820	1204.630	1186.836
50.0	1270.038	1259.616	1259.326	1254.581	1245.036	1234.299	1223.229	1210.027	1194.620	1176.602
52.5	1260.644	1252.545	1247.011	1244.715	1237.806	1226.286	1212.853	1199.024	1180.752	1161.962
55.0	1248.786	1241.731	1232.931	1229.791	1224.715	1213.575	1200.229	1184.078	1165.386	1144.011
57.5	1234.618	1228.080	1219.739	1213.190	1206.571	1196.923	1184.197	1167.662	1148.749	1126.523
60.0	1217.216	1211.485	1203.795	1194.973	1187.603	1177.851	1165.202	1148.868	1128.992	1106.728
62.5	1200.122	1193.789	1185.701	1176.051	1167.627	1157.294	1143.495	1127.317	1106.879	1085.150
65.0	1179.178	1173.356	1165.704	1156.291	1146.066	1134.626	1119.663	1102.429	1082.175	1058.735
67.5	1156.540	1151.718	1142.821	1133.059	1121.636	1108.887	1093.379	1075.250	1054.647	1030.950
70.0	1128.820	1124.225	1115.614	1106.098	1094.762	1081.270	1065.302	1046.710	1025.771	1001.861
72.5	1099.406	1094.925	1086.757	1077.624	1066.622	1053.076	1036.519	1017.283	995.836	971.848
75.0	1071.224	1066.438	1057.926	1048.499	1037.263	1023.842	1007.630	986.901	965.050	940.701
77.5	1040.270	1035.394	1026.843	1017.386	1006.134	993.141	975.695	955.392	932.839	908.186
80.0	1007.776	1002.816	994.368	984.967	973.723	960.627	943.537	922.972	900.519	876.274
82.5	975.898	970.496	961.617	951.859	940.366	927.166	911.063	890.635	868.529	844.749
85.0	941.710	936.172	927.441	917.852	906.587	893.639	878.884	858.755	837.035	813.509
87.5	909.216	903.324	894.460	884.827	873.681	861.027	846.885	828.010	806.067	782.663
90.0	877.184	871.114	862.185	852.513	841.377	828.779	814.732	798.353	775.428	752.166
92.5	844.998	838.741	829.758	820.091	809.066	796.698	783.012	767.033	745.544	722.490
95.0	812.658	806.364	797.466	787.942	777.160	765.150	751.948	737.593	716.665	693.658
97.5	780.164	773.987	765.340	756.108	745.695	734.134	721.462	707.718	688.688	665.640
100.0	747.978	741.974	733.587	724.654	714.608	703.491	691.348	678.224	661.167	637.356
102.5	715.484	709.762	701.694	693.038	683.212	672.226	660.095	646.836	632.210	608.636
105.0	682.836	677.113	669.139	660.614	650.983	640.261	628.469	615.628	601.753	580.437
107.5	650.188	644.542	636.677	628.281	618.813	608.296	596.755	584.220	572.039	552.050
110.0	616.616	611.329	603.431	595.196	585.892	575.540	564.169	551.808	538.606	523.145
112.5	581.658	576.372	568.962	561.038	552.078	542.098	531.120	519.165	506.258	492.594
115.0	547.162	542.014	534.864	527.226	518.610	509.030	498.504	487.051	474.693	461.635
117.5	513.436	508.424	501.493	494.109	485.808	476.611	466.544	455.633	443.903	431.503
120.0	479.710	474.940	468.336	461.306	453.413	444.682	435.140	424.817	413.742	401.989
122.5	446.138	441.674	435.455	428.829	421.378	413.128	404.106	394.341	383.861	372.724
125.0	412.720	408.579	402.769	396.572	389.589	381.843	373.358	364.161	354.279	344.444
127.5	379.764	375.931	370.487	364.673	358.105	350.807	342.803	334.121	324.788	314.830
130.0	346.654	343.154	338.126	332.750	326.663	319.894	312.465	304.406	295.745	286.507
132.5	313.852	310.721	306.132	301.216	295.629	289.397	282.548	275.109	267.109	258.575

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CANDELA TABULATION - (Cont.)

135.0	281.204	278.470	274.372	269.959	264.906	259.230	252.953	246.095	238.678	230.723
137.5	249.480	247.051	243.339	239.421	234.711	229.503	223.844	217.379	210.500	203.144
140.0	218.372	216.208	214.046	209.294	205.143	200.445	195.211	189.454	183.186	176.419
142.5	189.112	187.137	185.164	180.886	177.147	172.924	168.230	163.076	157.474	151.435
145.0	161.700	159.926	158.154	154.348	151.027	147.291	143.154	138.628	133.728	128.468
147.5	135.982	134.466	132.951	129.726	126.911	123.750	120.254	116.436	112.309	107.884
150.0	113.036	111.770	110.589	107.821	105.475	102.840	99.925	96.738	93.290	89.589
152.5	92.862	91.802	90.743	88.536	86.602	84.430	82.029	79.406	76.566	73.519
155.0	75.460	74.567	73.676	71.862	70.269	68.488	66.524	64.385	62.076	59.605
157.5	60.368	59.638	58.909	57.449	56.165	54.735	53.166	51.462	49.629	47.673
160.0	47.278	46.716	46.155	45.022	44.029	42.923	41.707	40.387	38.969	37.455
162.5	36.036	35.624	35.213	34.401	33.651	32.834	31.959	30.951	29.891	28.767
165.0	26.950	26.633	26.316	25.688	25.135	24.518	23.841	23.106	22.315	21.469
167.5	19.250	19.026	18.802	18.579	17.998	17.549	17.078	16.567	16.041	15.430
170.0	13.090	12.941	12.793	12.644	12.238	11.949	11.631	11.285	10.913	10.515
172.5	8.008	7.918	7.828	7.738	7.491	7.316	7.124	6.915	6.691	6.452
175.0	4.004	3.963	3.922	3.882	3.841	3.673	3.578	3.476	3.365	3.248
177.5	0.924	0.918	0.912	0.906	0.900	0.894	0.888	0.843	0.825	0.807
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	903.582	902.706	901.778	900.802	899.778	898.710	897.599	896.396	895.259	894.035
5.0	930.297	928.480	926.555	924.523	922.392	920.164	917.846	915.442	912.958	910.399
7.5	957.921	955.018	951.939	948.693	945.286	941.729	938.029	934.196	930.239	926.278
10.0	984.501	980.683	976.626	972.343	967.845	963.146	958.082	952.816	947.388	941.812
12.5	1010.213	1005.294	1000.083	994.598	988.789	982.716	976.401	969.865	963.127	956.207
15.0	1034.972	1029.057	1022.680	1015.842	1008.698	1001.272	993.588	985.627	977.280	968.723
17.5	1058.021	1050.921	1043.317	1035.348	1027.045	1018.778	1009.167	999.661	989.934	979.820
20.0	1078.736	1070.610	1062.036	1053.053	1043.294	1032.678	1021.704	1011.313	998.380	986.160
22.5	1098.369	1088.842	1078.703	1067.810	1056.366	1044.462	1031.748	1018.550	1005.081	990.959
25.0	1116.261	1106.353	1093.900	1081.459	1068.421	1054.538	1040.234	1025.253	1009.742	995.042
27.5	1132.578	1120.411	1107.621	1093.745	1078.791	1064.693	1046.862	1030.066	1012.540	994.641
30.0	1145.856	1133.299	1119.014	1103.768	1087.371	1069.844	1051.633	1032.571	1013.131	993.200
32.5	1157.862	1143.473	1128.178	1110.948	1093.152	1073.607	1053.676	1032.443	1011.047	988.840
35.0	1166.100	1150.554	1132.983	1114.618	1094.977	1074.181	1052.351	1029.383	1006.107	981.642
37.5	1171.252	1153.837	1134.966	1115.283	1093.780	1071.539	1047.929	1023.163	999.272	971.340
40.0	1173.604	1153.955	1133.627	1112.232	1089.244	1065.407	1040.099	1013.553	986.271	957.698
42.5	1174.210	1153.848	1132.300	1109.570	1084.861	1059.037	1032.079	1002.966	972.857	941.693
45.0	1172.784	1151.579	1128.816	1104.744	1078.852	1051.297	1022.586	992.323	960.243	927.438
47.5	1167.152	1145.695	1121.535	1095.907	1068.930	1039.957	1009.411	977.659	944.277	909.846
50.0	1156.128	1134.002	1110.702	1083.244	1054.627	1024.673	992.775	959.113	924.530	889.150
52.5	1141.437	1118.350	1093.283	1066.345	1037.068	1005.384	971.913	937.354	901.355	864.864
55.0	1122.464	1099.216	1073.977	1045.828	1015.749	983.744	948.920	912.675	875.221	837.572
57.5	1102.262	1077.102	1050.731	1022.365	991.596	958.102	923.021	886.490	848.343	809.422
60.0	1082.107	1054.415	1024.885	995.617	963.731	930.038	894.488	857.525	819.555	780.710
62.5	1058.599	1030.664	999.992	966.204	933.390	899.189	863.615	826.878	789.053	750.523
65.0	1032.690	1004.378	972.853	938.895	902.089	866.360	831.125	794.620	757.258	719.190
67.5	1004.810	975.866	944.291	910.096	873.285	834.682	797.185	761.257	724.430	686.916
70.0	975.634	946.382	914.690	880.073	843.722	805.549	765.623	726.997	690.745	653.954
72.5	945.609	915.862	883.641	849.776	815.656	776.396	736.899	695.680	656.419	620.537
75.0	913.667	884.428	853.106	819.786	784.540	747.203	709.426	667.499	625.768	587.165
77.5	881.854	854.800	823.213	790.232	755.012	718.088	679.606	639.854	599.034	558.055
80.0	850.533	823.410	793.572	760.504	725.895	689.977	651.684	612.753	573.206	533.049

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CANDELA TABULATION - (Cont.)

82.5	819.330	792.113	763.342	731.674	697.294	661.291	624.718	586.284	547.980	508.014
85.0	788.296	761.534	733.174	702.921	668.840	633.684	597.340	560.040	521.827	482.727
87.5	757.684	731.062	702.965	673.177	640.932	606.198	570.384	533.616	495.881	457.280
90.0	727.305	701.067	673.214	643.762	612.661	578.623	543.337	507.014	469.747	432.121
92.5	697.861	671.987	644.020	614.716	583.825	550.947	516.078	480.485	444.212	407.295
95.0	669.084	643.045	615.438	586.136	555.159	522.908	489.274	454.442	418.874	382.821
97.5	641.078	614.702	586.691	558.382	527.064	495.535	462.707	428.465	394.060	360.228
100.0	612.201	585.813	558.317	529.561	499.549	468.326	436.214	403.206	369.986	336.492
102.5	583.822	557.764	530.451	501.928	472.312	441.753	410.559	379.154	347.223	315.400
105.0	555.729	529.832	502.692	474.544	445.610	416.195	386.142	356.243	326.369	295.601
107.5	527.359	501.647	475.138	447.855	419.870	391.740	363.343	334.502	305.718	276.828
110.0	498.957	474.289	448.264	422.075	395.231	368.380	341.118	313.743	286.268	259.420
112.5	471.050	446.938	422.287	397.290	371.737	345.978	319.946	293.726	267.769	241.775
115.0	443.931	420.880	397.267	373.369	348.966	324.297	299.585	274.609	250.216	225.788
117.5	417.603	395.568	372.956	350.101	326.859	303.338	279.998	256.524	233.331	210.328
120.0	389.621	370.694	349.125	327.336	305.317	283.058	260.923	238.762	216.816	195.274
122.5	361.019	346.060	325.609	304.910	284.054	263.022	242.142	221.392	200.691	180.420
125.0	332.634	320.948	302.112	282.579	263.055	243.386	223.727	204.247	184.777	165.712
127.5	304.455	293.566	278.950	261.269	242.375	223.964	205.903	187.176	168.975	151.088
130.0	276.835	266.714	256.181	238.976	221.753	204.462	187.138	170.033	153.121	137.168
132.5	249.560	240.062	230.085	216.902	201.052	184.737	168.659	152.881	137.337	122.065
135.0	222.281	213.393	204.031	194.215	179.639	164.940	150.267	136.151	121.961	108.400
137.5	196.027	187.076	178.449	169.366	158.566	145.527	132.538	119.911	107.430	95.717
140.0	169.168	161.830	154.119	146.012	137.524	127.169	115.960	104.823	94.048	84.105
142.5	144.972	138.420	131.698	124.665	117.338	109.940	100.767	91.586	82.018	73.402
145.0	122.861	117.128	111.451	105.521	99.352	92.958	86.890	78.879	71.161	63.364
147.5	103.175	98.467	93.444	88.444	83.235	77.844	72.492	67.325	60.711	54.173
150.0	85.646	81.470	77.395	73.248	68.923	64.428	59.771	55.540	51.228	46.088
152.5	70.269	66.826	63.338	59.964	56.454	52.886	49.051	45.399	42.009	38.557
155.0	56.973	54.192	51.266	48.552	45.777	42.912	39.965	36.940	34.169	31.451
157.5	45.600	43.417	41.128	38.854	36.679	34.450	32.132	29.771	27.404	25.182
160.0	35.852	34.164	32.396	30.552	28.821	27.078	25.274	23.413	21.498	19.761
162.5	27.545	26.265	24.917	23.504	22.074	20.730	19.381	17.996	16.577	15.125
165.0	20.572	19.625	18.632	17.594	16.513	15.490	14.454	13.469	12.460	11.429
167.5	14.808	14.151	13.463	12.744	11.996	11.221	10.420	9.705	8.986	8.251
170.0	10.093	9.647	9.178	8.688	8.178	7.668	7.100	6.536	6.056	5.520
172.5	6.199	5.932	5.652	5.360	5.057	4.743	4.419	4.086	3.744	3.393
175.0	3.121	2.989	2.851	2.706	2.557	2.402	2.242	2.078	1.911	1.739
177.5	0.787	0.766	0.744	0.721	0.697	0.672	0.646	0.619	0.591	0.564
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	892.777	891.490	890.174	888.834	887.471	886.089	884.690	883.277	881.853	880.421
5.0	907.772	905.082	902.334	899.536	896.744	893.922	891.069	888.193	885.298	882.391
7.5	922.225	918.079	913.849	909.545	905.178	900.715	896.295	892.842	887.421	883.005
10.0	936.103	930.269	924.343	918.438	912.481	906.460	900.391	894.288	888.166	882.178
12.5	948.911	941.459	933.890	926.222	918.475	910.780	902.919	895.307	887.547	880.887
15.0	959.982	951.084	941.867	932.513	923.084	913.603	904.169	894.742	885.324	875.935
17.5	968.909	957.843	946.660	935.292	923.825	912.359	900.937	889.668	878.477	867.396
20.0	973.766	960.749	947.574	934.336	921.023	907.733	894.508	881.506	868.638	856.038
22.5	976.601	962.046	946.798	931.377	916.294	901.179	886.174	871.458	856.940	842.661
25.0	977.607	961.142	944.072	926.711	909.489	892.570	875.813	859.444	843.321	827.468
27.5	976.517	958.030	939.142	919.686	900.476	881.797	864.570	845.407	827.740	810.275

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CANDELA TABULATION - (Cont.)

30.0	973.064	952.505	931.765	910.135	889.146	868.775	848.781	829.308	810.088	791.031
32.5	966.542	943.792	920.820	897.334	874.442	852.215	830.594	809.569	788.818	768.515
35.0	957.148	932.214	907.044	881.691	857.036	832.962	809.651	786.876	764.457	742.820
37.5	944.618	917.607	890.313	863.237	836.846	811.111	786.124	761.645	737.767	714.970
40.0	928.728	901.288	870.547	841.865	813.790	786.502	759.932	733.961	708.564	684.865
42.5	909.337	878.391	847.712	817.420	787.849	759.097	730.895	703.878	677.764	652.811
45.0	893.902	860.055	826.348	792.791	759.669	728.889	699.661	671.483	644.447	618.889
47.5	875.096	840.154	805.224	770.685	736.595	703.025	670.013	637.556	609.436	583.538
50.0	853.101	817.147	782.945	746.022	711.213	676.944	643.393	610.946	579.494	549.540
52.5	828.123	791.331	754.920	718.996	683.665	649.101	615.334	582.771	551.619	521.416
55.0	800.106	762.884	726.016	689.851	654.369	619.596	586.128	553.791	522.349	492.269
57.5	769.854	731.966	695.098	658.867	623.381	589.121	555.800	524.313	492.428	462.095
60.0	741.289	701.629	662.246	626.385	591.449	557.371	524.344	492.501	461.356	430.971
62.5	711.501	672.204	633.176	594.456	558.208	524.687	492.167	460.466	429.539	399.508
65.0	680.657	642.087	603.662	565.515	527.955	491.182	459.007	427.751	397.363	367.605
67.5	649.100	611.237	573.645	536.523	499.537	464.508	426.442	394.759	364.801	335.596
70.0	616.937	580.111	543.661	507.228	470.889	434.847	399.132	363.896	332.286	303.732
72.5	584.686	549.153	513.503	477.841	442.222	406.733	371.555	337.121	303.276	271.901
75.0	552.809	518.162	483.350	448.350	413.291	378.362	344.052	310.254	276.999	244.720
77.5	521.037	487.594	453.029	418.586	384.098	350.066	316.486	283.367	251.155	220.063
80.0	492.249	456.072	422.413	388.550	354.951	321.769	288.962	256.949	225.965	195.880
82.5	467.661	426.648	391.515	358.504	325.911	293.594	261.913	231.203	201.315	172.507
85.0	442.883	402.910	361.617	328.727	297.079	265.862	235.601	206.081	177.528	151.390
87.5	418.183	379.430	338.865	299.267	268.621	238.986	210.017	181.829	155.944	131.480
90.0	393.800	355.180	316.579	277.888	241.194	212.973	185.409	159.793	135.575	112.620
92.5	369.779	332.413	294.921	257.743	221.378	188.070	162.801	138.982	116.298	94.859
95.0	346.550	310.434	274.185	238.991	204.141	170.172	141.557	119.378	98.491	79.005
97.5	324.322	289.530	255.213	221.541	188.661	156.538	125.949	101.503	82.834	64.929
100.0	303.308	270.040	237.567	205.377	174.141	144.307	115.542	88.997	68.957	52.818
102.5	283.595	252.098	221.106	190.610	161.487	133.371	106.862	82.065	58.717	43.123
105.0	265.147	235.280	205.759	177.325	150.013	123.651	99.194	76.028	54.969	36.386
107.5	247.769	219.579	191.674	165.300	139.531	115.208	92.737	70.971	52.140	35.068
110.0	231.640	204.970	179.070	154.106	129.930	107.510	86.199	66.972	49.564	33.970
112.5	216.510	191.304	167.085	143.520	121.291	100.648	80.678	63.103	47.030	33.274
115.0	201.964	178.295	155.578	133.503	112.854	93.190	75.473	59.184	44.702	32.395
117.5	187.765	165.721	144.250	123.712	104.438	86.451	70.119	55.068	42.366	31.164
120.0	173.929	153.152	132.718	113.896	95.957	79.606	64.526	51.245	39.637	29.614
122.5	160.263	140.819	121.797	103.891	87.410	72.528	58.806	47.036	36.470	27.915
125.0	146.943	128.693	111.104	94.219	78.799	65.187	53.142	42.530	33.451	25.914
127.5	133.819	116.610	100.569	84.965	70.795	57.732	47.423	37.959	30.416	23.672
130.0	120.499	104.892	90.299	76.405	63.595	51.939	41.804	33.991	27.152	21.303
132.5	107.627	93.738	80.503	68.523	57.179	47.127	37.731	29.775	23.623	18.752
135.0	95.373	83.374	71.693	61.306	51.513	42.570	34.425	27.065	20.687	15.999
137.5	84.215	73.871	63.961	54.634	46.364	38.068	31.179	24.675	19.135	14.079
140.0	74.355	65.125	56.600	48.338	41.029	34.182	27.964	22.477	17.410	13.118
142.5	65.060	56.897	49.618	42.657	36.113	30.390	24.910	20.199	15.846	12.121
145.0	56.359	49.505	43.159	37.289	31.706	26.728	22.207	18.118	14.410	11.087
147.5	48.302	42.675	37.172	32.288	27.748	23.341	19.623	16.122	12.884	10.056
150.0	40.978	36.484	32.068	27.742	24.078	20.532	17.313	14.168	11.328	8.875
152.5	34.801	30.956	27.419	23.954	20.624	17.645	14.757	12.061	9.942	7.934
155.0	28.694	25.902	23.041	20.158	17.333	14.697	12.520	10.425	8.587	6.953
157.5	22.950	20.673	18.353	16.347	14.345	12.265	10.302	8.748	7.221	5.775
160.0	17.908	16.212	14.492	12.752	11.231	9.808	8.379	6.942	5.724	4.586
162.5	13.715	12.433	11.191	9.935	8.667	7.458	6.392	5.322	4.249	3.242
165.0	10.378	9.309	8.361	7.424	6.494	5.556	4.612	3.823	3.156	2.494
167.5	7.501	6.738	5.963	5.176	4.564	3.976	3.387	2.798	2.210	1.686

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CANDELA TABULATION - (Cont.)

170.0	5.053	4.578	4.099	3.615	3.126	2.634	2.203	1.891	1.585	1.283
172.5	3.036	2.742	2.484	2.225	1.965	1.706	1.447	1.189	0.931	0.674
175.0	1.564	1.386	1.205	1.022	0.836	0.677	0.613	0.556	0.500	0.444
177.5	0.534	0.505	0.475	0.444	0.413	0.382	0.350	0.318	0.285	0.252
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	878.983	877.544	876.104	874.668	873.237	871.816	871.114	868.999	867.612	866.245
5.0	879.478	876.565	873.658	870.763	867.885	865.032	862.185	859.375	856.604	853.878
7.5	878.588	874.178	869.786	865.419	861.086	856.781	852.513	848.304	844.162	840.094
10.0	876.238	870.319	864.435	858.596	852.858	847.056	841.377	835.788	830.297	824.916
12.5	872.362	864.935	857.564	850.264	843.019	835.843	828.613	821.838	815.032	808.460
15.0	866.908	857.984	849.146	840.641	831.711	823.148	814.732	807.084	798.576	790.748
17.5	856.749	846.301	835.790	825.948	816.058	806.409	798.353	788.126	779.508	771.206
20.0	843.656	831.596	820.544	808.215	796.930	786.596	775.428	765.252	755.438	746.261
22.5	828.740	815.088	801.777	788.808	776.171	763.969	752.166	742.210	730.125	719.892
25.0	811.926	796.737	782.046	767.721	753.794	740.300	727.305	715.043	703.274	692.095
27.5	793.162	776.622	760.577	744.922	729.686	716.507	701.067	687.700	674.966	662.860
30.0	772.493	754.706	737.355	720.331	703.848	687.939	673.214	658.840	645.126	632.147
32.5	749.152	730.516	711.987	693.959	676.553	659.838	643.762	628.381	613.792	599.996
35.0	722.132	702.088	682.656	664.132	646.416	629.324	612.661	596.390	580.947	566.193
37.5	692.970	671.772	651.483	632.204	613.647	595.777	578.623	562.173	546.361	530.989
40.0	661.866	639.749	618.925	598.887	579.644	561.128	543.337	526.223	509.803	494.590
42.5	628.903	606.479	584.944	564.365	544.515	525.407	507.014	489.332	472.912	457.275
45.0	594.736	572.389	549.830	528.687	508.301	488.663	469.747	452.108	435.294	419.403
47.5	559.093	535.904	513.528	491.918	471.075	450.971	432.121	414.162	397.211	381.352
50.0	522.429	498.896	476.132	454.138	432.903	412.869	393.800	375.833	359.043	343.182
52.5	492.191	463.575	437.713	415.421	394.255	374.106	355.180	337.482	321.821	305.802
55.0	462.743	433.771	405.390	377.726	354.962	335.150	316.579	299.030	283.227	268.784
57.5	432.337	403.309	374.954	347.225	320.628	296.223	277.888	261.284	246.171	232.371
60.0	401.419	372.476	344.133	316.945	290.655	265.185	241.194	224.109	210.090	197.535
62.5	370.094	341.280	313.600	286.746	262.213	236.212	212.973	192.178	174.890	163.679
65.0	338.525	310.410	283.096	256.793	231.585	207.943	185.409	165.137	146.212	131.846
67.5	307.185	279.526	252.730	227.437	203.280	181.628	159.793	140.686	122.756	107.029
70.0	275.855	248.894	223.324	198.837	176.284	154.820	135.575	117.525	101.232	86.778
72.5	244.901	219.173	194.464	170.889	150.083	130.754	112.527	95.815	80.896	67.602
75.0	214.816	190.006	166.293	145.445	126.098	107.946	90.691	75.316	61.650	50.278
77.5	189.937	161.598	140.771	121.487	103.406	85.766	69.962	55.934	44.294	35.475
80.0	166.926	140.776	116.803	98.890	80.938	64.753	50.385	38.528	29.802	23.020
82.5	146.284	121.800	98.935	76.030	59.595	44.927	32.905	24.281	17.875	13.464
85.0	126.841	103.835	81.137	59.625	39.462	27.351	18.851	12.823	9.014	8.232
87.5	108.432	86.082	64.910	44.981	27.363	13.449	7.816	4.644	4.954	4.607
90.0	90.691	69.962	50.385	32.905	18.851	7.816	0.308	1.709	2.296	2.269
92.5	74.711	55.566	38.279	24.173	12.794	4.639	1.709	0.001	0.753	0.979
95.0	60.441	43.535	29.340	17.699	8.966	4.940	2.296	0.758	0.004	0.299
97.5	48.187	34.274	22.464	13.284	8.138	4.581	2.269	0.988	0.309	0.004
100.0	38.897	27.012	17.312	11.254	6.831	3.770	1.972	0.920	0.329	0.061
102.5	31.252	21.211	14.211	9.003	5.240	2.944	1.530	0.656	0.183	0.038
105.0	24.779	16.915	11.032	6.647	3.877	2.140	0.983	0.310	0.077	0.000
107.5	20.274	12.842	7.948	4.737	2.699	1.300	0.436	0.118	0.000	0.000
110.0	20.995	10.029	5.477	3.215	1.595	0.552	0.159	0.000	0.000	0.000
112.5	21.550	11.872	4.627	1.851	0.642	0.195	0.000	0.000	0.000	0.000
115.0	21.825	13.560	6.916	1.778	0.220	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	21.950	14.479	8.490	4.385	1.163	0.000	0.000	0.000	0.000	0.000
120.0	21.532	14.769	9.759	5.905	3.084	1.119	0.000	0.000	0.000	0.000
122.5	20.647	14.918	10.407	6.915	4.254	2.316	0.966	0.117	0.000	0.000
125.0	19.572	14.558	10.397	7.236	4.762	2.891	1.585	0.726	0.196	0.000
127.5	18.235	13.634	9.977	7.065	4.728	3.020	1.746	0.914	0.386	0.097
130.0	16.455	12.382	9.149	6.495	4.367	2.755	1.630	0.837	0.294	0.097
132.5	14.453	10.935	7.932	5.569	3.692	2.309	1.283	0.504	0.201	0.035
135.0	12.332	9.174	6.559	4.511	2.907	1.694	0.698	0.312	0.059	0.015
137.5	10.076	7.264	5.163	3.377	2.045	0.891	0.417	0.084	0.026	0.000
140.0	9.274	6.054	3.753	2.265	1.029	0.501	0.106	0.038	0.000	0.000
142.5	8.817	5.932	3.526	1.536	0.548	0.125	0.048	0.000	0.000	0.000
145.0	8.229	5.671	3.646	2.185	1.094	0.482	0.077	0.000	0.000	0.000
147.5	7.385	5.469	3.804	2.575	1.701	1.033	0.583	0.274	0.109	0.023
150.0	6.926	5.116	3.857	2.776	1.916	1.250	0.728	0.406	0.151	0.068
152.5	6.212	4.869	3.634	2.665	1.842	1.154	0.706	0.308	0.157	0.042
155.0	5.533	4.245	3.220	2.264	1.514	0.970	0.466	0.252	0.097	0.000
157.5	4.600	3.515	2.483	1.768	1.157	0.577	0.343	0.158	0.000	0.000
160.0	3.485	2.541	1.872	1.226	0.635	0.413	0.209	0.011	0.000	0.000
162.5	2.524	1.817	1.132	0.666	0.449	0.236	0.027	0.000	0.000	0.000
165.0	1.838	1.234	0.913	0.627	0.357	0.099	0.055	0.033	0.015	0.000
167.5	1.363	1.051	0.747	0.453	0.214	0.161	0.112	0.067	0.022	0.000
170.0	0.985	0.692	0.403	0.312	0.246	0.183	0.121	0.060	0.000	0.000
172.5	0.493	0.425	0.357	0.290	0.225	0.160	0.096	0.032	0.000	0.000
175.0	0.388	0.332	0.277	0.221	0.166	0.110	0.055	0.000	0.000	0.000
177.5	0.219	0.186	0.152	0.119	0.085	0.051	0.017	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	864.900	863.581	862.288	861.025	859.793	858.596	857.436	856.314	855.232	854.193
5.0	851.201	848.579	846.017	843.518	841.088	838.730	836.449	834.248	832.137	830.114
7.5	836.108	832.212	828.410	824.729	821.165	817.714	814.379	811.167	808.082	805.129
10.0	820.230	814.586	809.644	804.840	800.111	795.680	791.336	787.195	783.241	779.458
12.5	802.064	795.828	789.763	783.877	778.262	772.761	767.651	762.642	757.840	753.868
15.0	783.296	775.951	768.976	762.223	755.685	749.371	743.347	737.635	732.161	726.929
17.5	763.380	755.402	747.477	739.794	732.512	725.515	718.776	712.302	706.168	700.333
20.0	737.493	729.045	721.331	714.035	707.191	700.836	693.880	686.829	680.063	673.346
22.5	710.157	701.045	692.435	684.363	676.961	670.099	663.782	657.483	651.625	644.835
25.0	681.525	671.515	662.209	653.529	645.452	637.449	629.968	623.081	616.944	611.447
27.5	651.402	640.701	630.653	620.942	611.658	603.016	595.234	588.135	581.680	575.839
30.0	619.935	609.901	597.146	586.582	576.895	568.024	559.840	552.319	545.493	539.558
32.5	586.825	574.193	562.335	551.541	541.472	532.118	523.495	515.610	508.375	501.827
35.0	552.130	539.055	526.967	515.641	505.073	495.289	486.331	478.095	470.269	464.207
37.5	516.642	503.220	490.592	478.770	467.881	457.859	448.690	440.629	433.228	426.899
40.0	480.173	466.372	453.256	441.350	430.227	420.432	411.441	403.514	396.497	390.220
42.5	442.478	428.509	415.668	403.696	393.099	383.322	374.871	367.026	360.544	354.628
45.0	404.487	390.613	378.029	366.583	356.440	347.164	339.032	331.813	325.416	319.869
47.5	366.468	353.147	340.732	330.094	321.242	311.938	305.141	297.303	291.061	286.071
50.0	329.088	315.982	304.533	294.207	285.191	277.177	270.028	263.728	257.864	253.487
52.5	292.031	279.759	268.989	259.250	250.935	243.671	237.053	231.314	226.715	222.889
55.0	255.725	244.512	233.807	225.529	217.748	211.162	205.555	200.710	196.599	192.770
57.5	220.716	210.101	200.900	193.110	186.159	180.732	175.692	171.662	167.873	164.710
60.0	186.607	176.979	169.224	162.247	156.765	151.931	147.761	144.328	141.072	138.202
62.5	153.686	146.001	139.173	133.565	129.025	125.160	121.873	118.909	116.286	113.661

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CANDELA TABULATION - (Cont.)

65.0	123.352	116.700	111.042	106.869	103.160	100.380	98.033	95.658	93.759	91.104
67.5	94.731	89.832	85.354	82.213	79.721	78.156	76.451	75.125	73.610	71.842
70.0	73.856	64.374	61.872	60.415	59.117	58.338	57.578	57.015	55.919	54.990
72.5	56.544	47.552	40.829	40.762	41.003	41.038	41.455	41.490	41.244	40.807
75.0	41.228	33.868	27.961	24.281	25.439	26.739	28.014	28.695	29.306	29.230
77.5	28.325	22.857	18.883	14.885	12.686	15.295	17.242	18.777	19.796	20.270
80.0	18.053	15.112	12.027	8.881	6.686	6.418	8.894	11.123	12.509	13.531
82.5	11.593	9.415	7.051	5.304	3.698	2.257	3.035	5.503	7.305	8.643
85.0	6.963	5.385	4.094	2.896	1.768	0.866	0.320	1.688	3.794	5.098
87.5	3.804	2.999	2.184	1.351	0.620	0.226	0.000	0.000	1.361	2.607
90.0	1.972	1.530	0.983	0.434	0.159	0.000	0.000	0.000	0.000	0.966
92.5	0.909	0.643	0.293	0.109	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.318	0.170	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.055	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.014	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	853.198	852.249	851.348	850.496	849.560	848.946	848.250	847.609	847.024	846.494
5.0	828.181	826.341	824.596	822.805	821.406	819.965	818.629	817.402	816.283	815.276
7.5	802.313	799.637	798.131	794.744	792.524	790.455	788.540	786.781	785.181	783.741
10.0	775.851	772.426	769.186	766.136	763.279	760.660	758.248	756.036	754.025	752.219

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CANDELA TABULATION - (Cont.)

12.5	748.980	744.916	741.075	737.460	734.076	730.926	728.443	725.357	722.937	720.759
15.0	721.947	717.237	712.815	708.649	704.743	701.102	697.731	694.634	691.686	689.028
17.5	694.768	689.480	684.474	679.470	674.779	670.425	666.412	662.744	659.424	656.493
20.0	666.788	660.500	654.574	649.017	643.909	639.179	634.820	630.835	627.229	625.082
22.5	637.604	630.877	624.534	618.582	613.026	607.802	602.974	598.550	594.535	590.934
25.0	606.542	601.142	594.243	587.755	581.685	575.979	570.514	565.493	560.923	556.810
27.5	570.143	566.094	562.063	556.266	549.477	543.147	537.297	531.937	527.067	522.694
30.0	533.733	528.751	524.428	520.783	516.978	510.259	504.453	498.543	493.541	489.057
32.5	496.028	491.003	486.609	482.367	480.029	477.734	471.384	465.693	460.614	455.997
35.0	458.347	453.409	449.208	445.620	442.888	440.869	439.437	434.619	428.404	423.725
37.5	421.307	416.396	412.526	409.239	406.599	404.807	403.594	402.291	396.879	391.999
40.0	385.047	380.453	376.689	373.655	371.199	369.501	367.851	367.847	365.839	360.763
42.5	349.613	345.318	341.648	338.869	336.597	334.937	333.948	333.429	333.769	329.996
45.0	314.977	311.075	307.650	305.033	302.974	301.344	300.343	299.763	299.614	299.577
47.5	281.545	277.946	274.896	272.332	270.366	268.748	267.726	267.216	267.088	267.470
50.0	249.556	246.104	243.287	240.754	238.967	237.503	236.431	235.904	235.719	235.915
52.5	218.838	215.538	213.008	210.742	208.922	207.078	206.350	205.654	205.196	205.007
55.0	189.504	186.615	184.117	181.984	180.120	178.703	177.409	176.268	175.712	175.142
57.5	161.616	158.968	156.516	154.612	152.723	151.253	149.823	148.610	147.720	146.888
60.0	135.098	132.841	130.619	128.818	126.994	125.448	124.038	122.626	121.880	121.108
62.5	111.073	108.468	106.565	104.836	103.255	101.708	100.608	99.330	98.808	98.323
65.0	89.320	86.693	84.588	82.997	81.905	80.491	79.986	79.201	78.820	78.669
67.5	70.067	67.742	65.514	63.765	63.303	62.599	62.365	62.107	61.804	61.756
70.0	53.490	51.761	49.818	47.737	47.600	47.613	47.530	47.500	47.196	47.317
72.5	39.729	38.663	37.094	35.769	34.593	34.948	34.955	35.240	35.108	35.277
75.0	28.801	28.250	27.157	26.146	24.454	24.487	24.742	25.173	25.265	25.435
77.5	20.454	20.157	19.509	18.537	17.291	16.049	16.573	17.012	17.305	17.539
80.0	14.045	13.926	13.548	12.698	11.715	10.439	9.980	10.512	11.089	11.375
82.5	9.230	9.317	9.012	8.273	7.418	6.217	5.246	5.620	6.215	6.428
85.0	5.726	5.906	5.617	5.019	4.292	3.418	2.526	1.906	2.792	3.347
87.5	3.260	3.429	3.172	2.789	2.163	1.432	0.799	0.365	0.892	1.578
90.0	1.585	1.746	1.630	1.283	0.698	0.417	0.106	0.048	0.077	0.583
92.5	0.563	0.739	0.651	0.388	0.175	0.056	0.005	0.000	0.000	0.122
95.0	0.042	0.204	0.169	0.047	0.024	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.016	0.016	0.007	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	846.023	845.609	845.254	844.958	844.722	844.546	844.430	844.375	844.380	844.445
5.0	814.381	813.600	812.933	812.382	811.947	811.628	811.426	811.341	811.372	811.521
7.5	782.464	781.351	780.403	779.622	779.009	778.564	778.185	778.180	778.241	778.471
10.0	750.619	749.228	748.047	747.078	746.322	745.780	745.452	745.338	745.439	745.754
12.5	718.812	717.144	715.711	714.531	713.605	712.936	712.524	712.370	712.475	712.839
15.0	686.679	684.640	682.914	681.500	680.400	679.615	679.143	678.984	679.138	679.601
17.5	653.771	651.670	649.781	648.242	647.054	646.219	645.736	645.604	645.824	646.394
20.0	621.071	618.539	616.394	614.639	613.222	612.310	611.737	611.561	611.781	612.398
22.5	587.636	584.697	582.193	580.129	578.507	577.329	576.599	576.318	576.487	577.105
25.0	553.703	550.012	547.337	545.141	543.426	542.195	541.448	541.188	541.413	542.124
27.5	518.823	515.542	512.806	510.575	508.850	507.635	506.930	506.737	507.056	507.887
30.0	485.097	481.699	478.900	476.611	474.839	473.587	472.860	472.663	472.999	473.870
32.5	451.988	448.458	445.559	443.183	441.330	440.008	439.223	438.983	439.294	440.160
35.0	419.554	415.903	412.819	410.288	408.295	406.848	405.957	405.631	405.877	406.703
37.5	387.630	383.785	380.507	377.829	375.704	374.143	373.155	372.750	372.938	373.727
40.0	356.207	352.069	349.291	345.833	343.510	341.762	340.602	340.043	340.097	340.776
42.5	325.199	320.932	317.214	314.180	311.718	309.824	308.517	307.812	307.725	308.272
45.0	294.848	290.448	286.416	283.322	280.653	278.545	277.018	276.094	275.793	276.135
47.5	265.398	260.650	256.703	253.154	250.201	247.841	246.096	244.982	244.517	244.720
50.0	236.505	231.629	227.218	223.394	220.220	217.658	215.727	214.447	213.833	213.904
52.5	205.226	202.838	198.185	194.567	190.915	188.330	186.394	185.063	184.521	184.611
55.0	174.995	174.784	170.100	166.031	162.987	160.581	158.785	157.617	157.091	157.224
57.5	146.471	146.553	143.806	139.986	137.151	134.939	133.337	132.251	131.745	131.844
60.0	120.570	120.756	119.944	116.463	113.837	111.935	110.494	109.543	109.107	109.215
62.5	97.885	98.119	98.463	95.768	93.335	91.627	90.342	89.504	89.139	89.271
65.0	78.362	78.529	78.787	77.451	75.215	73.757	72.684	72.014	71.771	71.975
67.5	61.501	61.535	61.748	61.418	59.851	58.295	57.464	56.908	56.807	57.078
70.0	47.169	47.108	47.345	47.505	46.062	45.218	44.607	44.252	44.178	44.417
72.5	35.270	35.185	35.516	35.768	35.147	34.398	33.889	33.579	33.496	33.670
75.0	25.602	25.611	25.963	26.228	26.101	25.351	24.870	24.595	24.543	24.734
77.5	17.883	17.982	18.160	18.238	18.201	17.630	17.333	17.174	17.174	17.359
80.0	11.656	11.657	11.784	11.899	11.830	11.529	11.354	11.275	11.313	11.491
82.5	6.922	7.113	7.156	7.244	7.078	6.797	6.661	6.593	6.590	6.742
85.0	3.816	4.051	4.002	3.858	3.499	3.046	3.066	3.081	3.115	3.197
87.5	1.908	1.971	1.755	1.545	1.207	0.750	0.860	0.941	0.936	0.891
90.0	0.728	0.706	0.466	0.343	0.209	0.027	0.055	0.110	0.121	0.096
92.5	0.150	0.138	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.043	0.037
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.098	0.148	0.154
135.0	0.000	0.000	0.000	0.000	0.000	0.007	0.090	0.138	0.154	0.154
137.5	0.000	0.000	0.000	0.000	0.000	0.002	0.018	0.070	0.148	0.114
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.021	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	844.570	844.754	844.998	844.754	844.570	844.445	844.380	844.375	844.430	844.546
5.0	811.785	812.164	812.658	812.164	811.785	811.521	811.372	811.341	811.426	811.628
7.5	778.868	779.433	780.164	779.433	778.868	778.471	778.241	778.180	778.288	778.564
10.0	746.283	747.024	747.978	747.024	746.283	745.754	745.439	745.338	745.452	745.780
12.5	713.462	714.344	715.484	714.344	713.462	712.839	712.591	712.370	712.524	712.936
15.0	680.374	681.453	682.836	681.453	680.374	679.601	679.138	678.984	679.143	679.615
17.5	647.313	648.578	650.188	648.578	647.313	646.476	645.824	645.604	645.852	646.219
20.0	613.410	614.817	616.616	614.817	613.410	612.398	611.781	611.561	611.737	612.310
22.5	578.174	579.692	581.658	579.692	578.174	577.105	576.487	576.318	576.599	577.329
25.0	543.321	545.001	547.162	545.001	543.321	542.124	541.413	541.188	541.448	542.195
27.5	509.055	511.079	513.436	511.079	509.228	507.887	507.056	506.737	506.930	507.635
30.0	475.278	477.224	479.710	477.224	475.463	473.870	472.999	472.663	472.860	473.587
32.5	441.587	443.579	446.138	443.579	441.587	440.160	439.294	438.983	439.223	440.008
35.0	408.116	410.120	412.720	410.120	408.116	406.703	405.877	405.631	405.957	406.848
37.5	375.123	377.134	379.764	377.134	375.123	373.727	372.938	372.750	373.155	374.143
40.0	342.089	344.045	346.654	344.045	342.089	340.776	340.097	340.043	340.602	341.762
42.5	309.467	311.323	313.852	311.323	309.467	308.383	307.725	307.812	308.671	309.824
45.0	277.139	278.823	281.204	278.823	277.139	276.135	275.793	276.094	277.018	278.545

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

47.5	245.605	247.188	249.480	247.188	245.605	244.720	244.517	244.982	246.096	247.841
50.0	214.675	216.160	218.372	216.160	214.675	213.904	213.833	214.447	215.727	217.658
52.5	185.400	186.898	189.112	186.898	185.400	184.611	184.521	185.119	186.394	188.330
55.0	158.028	159.517	161.700	159.517	158.028	157.224	157.091	157.616	158.785	160.581
57.5	132.569	133.942	135.982	133.942	132.569	131.844	131.745	132.251	133.337	134.978
60.0	109.890	111.156	113.036	111.156	109.890	109.215	109.107	109.543	110.494	111.935
62.5	89.921	91.112	92.862	91.112	89.921	89.271	89.139	89.504	90.342	91.627
65.0	72.646	73.731	75.460	73.802	72.646	71.975	71.771	72.014	72.684	73.757
67.5	57.746	58.835	60.368	58.836	57.750	57.092	56.839	56.971	57.464	58.295
70.0	44.995	45.939	47.278	45.994	44.995	44.417	44.178	44.252	44.607	45.218
72.5	34.133	34.912	36.036	34.912	34.133	33.670	33.496	33.579	33.889	34.398
75.0	25.187	25.920	26.950	25.920	25.187	24.734	24.543	24.595	24.870	25.351
77.5	17.751	18.374	19.250	18.374	17.751	17.358	17.174	17.174	17.333	17.630
80.0	11.832	12.357	13.090	12.357	11.832	11.491	11.313	11.275	11.354	11.529
82.5	7.003	7.418	8.008	7.418	7.003	6.742	6.613	6.593	6.661	6.797
85.0	3.353	3.612	4.004	3.612	3.353	3.197	3.115	3.081	3.066	3.046
87.5	0.846	0.842	0.924	0.842	0.846	0.891	0.936	0.941	0.868	0.750
90.0	0.055	0.017	0.000	0.017	0.055	0.096	0.121	0.112	0.055	0.027
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.037	0.043	0.000	0.004	0.000
132.5	0.083	0.000	0.000	0.000	0.083	0.154	0.148	0.098	0.057	0.000
135.0	0.154	0.109	0.000	0.109	0.154	0.154	0.154	0.138	0.090	0.007
137.5	0.050	0.000	0.000	0.000	0.050	0.114	0.148	0.070	0.018	0.002
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.005	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA50.IES

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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	844.722	844.958	845.254	845.609	846.023	846.494	847.024	847.609	848.250	848.946
5.0	811.947	812.398	812.933	813.600	814.381	815.276	816.283	817.402	818.629	819.965
7.5	779.009	779.622	780.403	781.351	782.464	783.741	785.181	786.781	788.540	790.455
10.0	746.322	747.078	748.047	749.228	750.619	752.219	754.025	756.206	758.248	760.660
12.5	713.747	714.531	715.711	717.144	718.828	720.759	722.937	725.357	728.443	730.926
15.0	680.400	681.500	682.914	684.640	686.679	689.028	691.686	694.634	697.731	701.102
17.5	647.054	648.299	649.781	651.670	653.908	656.493	659.424	662.744	666.412	670.425
20.0	613.277	614.639	616.394	618.539	621.071	625.082	627.229	630.835	634.820	639.179
22.5	578.507	580.129	582.193	584.697	587.636	590.934	594.535	598.601	602.974	607.802
25.0	543.426	545.147	547.337	550.012	553.703	556.810	560.924	565.493	570.514	575.979
27.5	508.850	510.575	512.806	515.542	518.823	522.694	527.067	532.144	537.297	543.147
30.0	474.839	476.611	478.900	481.699	485.097	489.057	493.541	498.543	504.461	510.259
32.5	441.330	443.183	445.559	448.458	451.988	456.043	460.614	465.732	471.384	477.741
35.0	408.295	410.288	412.819	415.903	419.554	423.725	428.404	434.619	439.460	440.869
37.5	375.704	377.829	380.507	383.785	387.630	391.999	396.879	402.291	403.594	405.346
40.0	343.510	345.833	349.291	352.187	356.207	360.763	365.839	367.847	368.404	369.501
42.5	311.718	314.239	317.214	320.932	325.199	329.996	333.769	333.429	333.948	335.444
45.0	280.653	283.322	286.574	290.448	294.848	299.754	299.614	299.763	300.343	301.344
47.5	250.201	253.154	256.703	260.800	265.398	267.470	267.357	267.216	267.726	268.851
50.0	220.220	223.394	227.218	231.629	236.619	235.915	235.719	235.904	236.431	237.503
52.5	190.915	194.567	198.185	202.838	205.226	205.007	205.196	205.654	206.351	207.505
55.0	162.987	166.031	170.100	174.784	174.995	175.142	175.712	176.449	177.410	178.703
57.5	137.151	139.986	143.806	146.553	146.471	146.888	147.720	148.610	149.823	151.253
60.0	113.837	116.463	119.944	120.756	120.570	121.108	121.880	122.626	124.038	125.448
62.5	93.335	95.768	98.463	98.119	97.885	98.323	98.808	99.330	100.608	101.708
65.0	75.215	77.451	78.787	78.529	78.362	78.669	78.820	79.201	79.986	80.491
67.5	59.851	61.418	61.748	61.535	61.501	61.756	61.804	62.107	62.365	62.599
70.0	46.062	47.505	47.345	47.219	47.169	47.317	47.196	47.500	47.530	47.613
72.5	35.147	35.768	35.516	35.185	35.270	35.277	35.108	35.240	35.065	34.948
75.0	26.101	26.228	25.963	25.611	25.602	25.435	25.265	25.173	24.742	24.487
77.5	18.201	18.238	18.160	17.982	17.883	17.539	17.305	17.012	16.573	16.049
80.0	11.830	11.899	11.784	11.657	11.656	11.375	11.089	10.512	9.980	10.439
82.5	7.078	7.244	7.187	7.113	6.922	6.428	6.215	5.620	5.246	6.217
85.0	3.499	3.858	4.002	4.051	3.816	3.347	2.792	1.906	2.526	3.418
87.5	1.207	1.545	1.755	1.982	1.908	1.578	0.892	0.365	0.799	1.432
90.0	0.209	0.343	0.466	0.706	0.728	0.583	0.077	0.048	0.106	0.417
92.5	0.000	0.000	0.049	0.138	0.150	0.122	0.000	0.000	0.005	0.056
95.0	0.000	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA50.IES

CANDELA TABULATION - (Cont.)

132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	849.695	850.554	851.348	852.249	853.198	854.193	855.232	856.314	857.436	858.596
5.0	821.406	822.950	824.596	826.341	828.181	830.114	832.137	834.248	836.449	838.730
7.5	792.524	794.744	798.148	799.637	802.313	805.129	808.082	811.167	814.379	817.714
10.0	763.279	766.136	769.186	772.426	775.851	779.458	783.241	787.195	791.336	795.680
12.5	734.076	737.460	741.075	744.916	748.980	753.868	757.840	762.642	767.651	772.860
15.0	704.743	708.649	712.815	717.237	722.066	726.929	732.161	737.635	743.347	749.371
17.5	674.779	679.470	684.474	689.480	694.768	700.333	706.168	712.302	718.776	725.515
20.0	643.909	649.017	654.574	660.500	666.788	673.432	680.063	686.829	693.880	700.836
22.5	613.026	618.582	624.534	630.877	637.604	644.835	651.625	657.483	663.782	670.281
25.0	581.685	587.755	594.243	601.142	606.542	611.447	616.944	623.081	629.968	637.449
27.5	549.477	556.266	562.062	566.094	570.640	575.839	581.680	588.135	595.234	603.016
30.0	516.978	520.783	524.428	528.751	533.732	539.558	545.493	552.319	559.841	568.024
32.5	480.029	482.904	486.609	491.003	496.028	501.827	508.375	515.610	523.495	532.118
35.0	443.454	445.620	449.208	453.409	458.697	464.207	470.717	478.094	486.331	495.289
37.5	406.599	409.239	412.526	416.396	421.307	426.898	433.228	440.629	448.690	457.859
40.0	371.199	373.655	376.689	380.452	385.047	390.220	396.497	403.514	411.441	420.432
42.5	336.597	338.869	341.648	345.318	349.613	354.628	361.042	367.026	374.871	383.322
45.0	302.974	305.033	307.651	311.075	314.977	319.869	325.416	331.813	339.032	347.164
47.5	270.366	272.332	274.896	277.946	281.545	286.071	291.061	297.303	305.141	311.938
50.0	238.967	240.754	243.287	246.104	249.556	253.487	258.181	263.728	270.028	277.177
52.5	208.922	210.742	213.191	215.538	218.838	223.261	226.715	231.314	237.053	243.671
55.0	180.120	181.984	184.116	186.615	189.504	192.770	196.599	200.710	205.555	211.162
57.5	152.723	154.612	156.516	158.968	161.616	164.710	167.873	171.662	175.692	180.732
60.0	126.994	128.818	130.619	132.841	135.098	138.202	141.072	144.328	147.761	151.931
62.5	103.255	104.836	106.565	108.468	111.073	113.661	116.286	118.909	121.873	125.160
65.0	81.905	82.997	84.588	86.693	89.320	91.435	93.760	95.658	98.033	100.380
67.5	63.303	63.765	65.514	67.742	70.067	71.842	73.610	75.447	76.451	78.155
70.0	47.600	47.915	49.818	51.761	53.490	54.990	55.919	57.015	57.578	58.338
72.5	34.592	35.769	37.094	38.663	39.732	40.807	41.244	41.490	41.725	41.038
75.0	24.454	26.146	27.238	28.250	28.802	29.230	29.306	28.695	28.014	26.739
77.5	17.291	18.537	19.509	20.157	20.454	20.328	19.796	18.777	17.242	15.295

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CANDELA TABULATION - (Cont.)

80.0	11.715	12.698	13.548	13.946	14.045	13.531	12.509	11.123	9.011	6.418
82.5	7.423	8.273	9.012	9.317	9.230	8.643	7.305	5.503	3.035	2.257
85.0	4.292	5.019	5.617	5.906	5.726	5.098	3.794	1.688	0.320	0.866
87.5	2.163	2.789	3.172	3.429	3.260	2.607	1.361	0.000	0.000	0.226
90.0	0.698	1.283	1.630	1.746	1.585	0.966	0.000	0.000	0.000	0.000
92.5	0.175	0.388	0.651	0.739	0.563	0.000	0.000	0.000	0.000	0.000
95.0	0.024	0.047	0.169	0.210	0.042	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.007	0.016	0.016	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	859.793	861.025	862.288	863.581	864.900	866.245	867.612	868.999	871.114	871.816
5.0	841.088	843.518	846.017	848.579	851.201	853.878	856.604	859.375	862.185	865.032
7.5	821.165	824.729	828.410	832.253	836.108	840.094	844.162	848.304	852.513	856.781
10.0	800.184	804.841	809.644	814.586	820.230	824.916	830.297	835.788	841.377	847.056
12.5	778.262	783.877	789.763	795.828	802.064	808.460	815.032	821.838	828.779	835.934
15.0	755.685	762.223	768.976	775.951	783.296	790.841	798.576	807.084	814.732	823.148
17.5	732.512	739.794	747.477	755.402	763.380	771.206	779.508	788.126	798.353	806.409
20.0	707.191	714.035	721.331	729.133	737.493	746.261	755.438	765.252	775.428	786.889
22.5	676.961	684.363	692.435	701.045	710.157	719.892	730.125	742.210	752.166	763.969
25.0	645.452	653.529	662.209	671.515	681.525	692.095	703.274	715.042	727.305	740.300

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CANDELA TABULATION - (Cont.)

27.5	611.658	620.942	630.653	640.701	651.402	662.860	675.179	687.700	701.067	716.507
30.0	576.895	586.582	597.146	609.901	619.935	632.147	645.126	658.839	673.214	688.233
32.5	541.472	551.541	562.335	574.193	586.825	599.996	613.792	628.381	643.762	659.838
35.0	505.073	515.641	526.967	539.131	552.130	566.193	580.947	596.390	612.661	629.324
37.5	467.881	479.109	490.592	503.219	516.642	530.989	546.361	562.173	578.623	595.777
40.0	430.226	441.350	453.256	466.372	480.173	494.590	509.803	526.223	543.337	561.128
42.5	393.099	403.696	415.668	428.509	442.478	457.275	473.399	489.331	507.014	525.407
45.0	356.440	366.583	378.029	390.613	404.487	419.403	435.294	452.108	469.747	488.663
47.5	321.242	330.094	340.732	353.147	366.468	381.352	397.211	414.162	432.121	450.971
50.0	285.191	294.207	304.533	315.982	329.088	343.182	359.043	375.833	393.800	412.869
52.5	250.935	259.250	268.989	279.759	292.031	305.802	321.821	337.482	355.180	374.106
55.0	217.748	225.529	234.244	244.512	255.725	268.784	283.227	299.030	316.579	335.579
57.5	186.159	193.110	200.900	210.101	220.717	232.371	246.171	261.284	277.888	296.223
60.0	156.765	162.247	169.223	176.979	186.607	197.535	210.090	224.109	241.194	265.185
62.5	129.025	133.565	139.173	146.001	153.686	164.241	174.890	192.178	212.973	236.212
65.0	103.160	106.869	111.042	116.700	123.352	131.846	146.212	165.137	185.409	207.943
67.5	79.721	82.214	85.354	89.832	94.731	107.029	122.756	140.686	159.793	181.628
70.0	59.117	60.415	61.872	64.374	73.856	86.778	101.232	117.525	135.575	154.820
72.5	41.003	40.762	40.829	47.552	56.544	67.602	80.896	95.815	112.620	130.754
75.0	25.439	24.281	27.961	33.868	41.370	50.278	61.650	75.412	90.691	107.946
77.5	12.686	14.885	18.883	22.857	28.325	35.475	44.294	55.934	69.962	85.766
80.0	6.686	8.881	12.027	15.112	18.053	23.020	29.802	38.528	50.385	64.753
82.5	3.698	5.304	7.051	9.415	11.593	13.464	17.875	24.281	32.905	44.927
85.0	1.768	2.896	4.094	5.422	6.963	8.232	9.014	12.823	18.851	27.351
87.5	0.620	1.351	2.186	2.999	3.804	4.607	4.954	4.644	7.816	13.451
90.0	0.159	0.436	0.983	1.530	1.972	2.269	2.296	1.709	0.308	7.816
92.5	0.000	0.109	0.293	0.643	0.909	0.979	0.753	0.000	1.709	4.639
95.0	0.000	0.000	0.069	0.170	0.318	0.299	0.000	0.758	2.296	4.940
97.5	0.000	0.000	0.000	0.034	0.055	0.000	0.309	0.988	2.269	4.581
100.0	0.000	0.000	0.000	0.000	0.001	0.061	0.329	0.920	1.972	3.770
102.5	0.000	0.000	0.000	0.000	0.000	0.038	0.183	0.656	1.530	2.944
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.310	0.983	2.129
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.118	0.434	1.300
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.159	0.552
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.195
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.119
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.117	0.966	2.316
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.196	0.704	1.585	2.891
127.5	0.000	0.000	0.000	0.000	0.011	0.097	0.386	0.914	1.746	3.020
130.0	0.000	0.000	0.000	0.001	0.014	0.097	0.294	0.837	1.630	2.755
132.5	0.000	0.000	0.000	0.000	0.006	0.035	0.201	0.504	1.283	2.309
135.0	0.000	0.000	0.000	0.000	0.000	0.015	0.059	0.312	0.698	1.694
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.084	0.417	0.891
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.106	0.501
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048	0.125
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.077	0.482
147.5	0.000	0.000	0.000	0.000	0.000	0.023	0.109	0.274	0.583	1.033
150.0	0.000	0.000	0.000	0.000	0.006	0.068	0.151	0.399	0.728	1.250
152.5	0.000	0.000	0.000	0.000	0.000	0.042	0.157	0.308	0.706	1.154
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.097	0.252	0.466	0.970
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.158	0.343	0.577
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.209	0.413
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.236
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.033	0.055	0.099

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.066	0.110	0.161
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.121	0.183
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.032	0.096	0.160
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.110
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.051
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	873.237	874.668	876.104	877.544	878.983	880.421	881.853	883.277	884.690	886.089
5.0	867.885	870.763	873.658	876.565	879.478	882.391	885.298	888.193	891.069	893.922
7.5	861.086	865.419	869.786	874.178	878.588	883.005	887.421	892.842	896.295	900.758
10.0	852.858	858.596	864.435	870.319	876.238	882.178	888.166	894.288	900.391	906.460
12.5	843.019	850.264	857.564	864.935	872.362	880.887	887.547	895.404	903.058	910.780
15.0	831.711	840.641	849.146	857.984	866.908	875.935	885.324	894.742	904.169	913.603
17.5	816.058	825.949	836.036	846.425	856.749	867.396	878.477	889.668	900.944	912.359
20.0	796.930	808.215	820.544	831.596	843.656	856.038	868.638	881.506	894.508	907.733
22.5	776.171	788.808	801.776	815.088	828.740	842.783	856.940	871.458	886.174	901.179
25.0	753.794	767.721	782.045	796.737	811.926	827.468	843.321	859.444	875.813	892.570
27.5	729.802	744.922	760.577	776.622	793.162	810.275	827.971	845.407	864.570	881.797
30.0	703.848	720.331	737.355	754.706	772.493	791.031	810.088	829.308	848.781	868.775
32.5	676.553	693.960	712.221	730.516	749.152	768.516	788.818	809.569	830.594	852.215
35.0	646.416	664.133	682.656	702.088	722.132	742.820	764.457	786.876	809.651	832.963
37.5	613.647	632.636	651.483	671.772	693.390	714.970	737.767	761.645	786.124	811.111
40.0	579.644	598.887	618.925	639.749	661.866	684.866	708.933	733.961	759.932	786.502
42.5	544.515	564.365	584.944	606.479	628.903	652.811	677.764	703.878	731.077	759.097
45.0	508.301	528.687	549.830	572.389	594.736	619.308	644.447	671.483	699.661	728.889
47.5	471.075	491.918	513.528	535.904	559.093	583.538	609.436	637.556	670.013	703.094
50.0	432.902	454.138	476.132	498.896	522.428	549.541	579.494	610.946	643.393	676.945
52.5	394.254	415.421	437.713	463.576	492.190	521.416	551.619	582.771	615.389	649.101
55.0	354.962	377.726	405.390	433.771	462.742	492.269	522.455	553.791	586.128	619.596
57.5	320.628	347.225	374.953	403.309	432.337	462.095	492.451	524.313	555.800	589.121
60.0	290.655	316.945	344.133	372.476	401.419	430.971	461.414	492.502	524.344	557.371
62.5	262.213	286.746	313.599	341.395	370.094	399.509	429.539	460.466	492.167	524.687
65.0	231.679	256.793	283.096	310.410	338.525	367.606	397.363	427.751	459.007	491.182
67.5	203.280	227.437	252.730	279.526	307.185	335.596	364.801	394.759	426.442	464.508
70.0	176.284	198.837	223.324	248.894	275.855	303.733	332.286	363.896	399.132	434.847
72.5	150.082	170.900	194.464	219.173	244.901	271.901	303.275	337.121	371.555	406.733
75.0	126.098	145.445	166.293	190.006	214.816	244.720	276.999	310.227	344.052	378.362
77.5	103.406	121.487	140.771	161.599	189.937	220.063	251.155	283.367	316.486	350.066
80.0	80.938	98.890	116.803	140.776	166.926	195.880	225.965	256.949	288.962	321.769
82.5	59.595	76.096	98.935	121.800	146.284	172.507	201.315	231.203	261.913	293.594
85.0	39.483	59.625	81.137	103.835	126.841	151.390	177.528	206.081	235.601	265.863
87.5	27.363	44.981	64.910	86.082	108.432	131.480	155.944	181.829	210.017	238.986
90.0	18.851	32.905	50.385	69.962	90.691	112.527	135.575	159.793	185.409	212.973
92.5	12.794	24.173	38.279	55.566	74.690	94.859	116.298	138.982	162.788	188.070
95.0	8.966	17.699	29.340	43.400	60.441	79.005	98.491	119.379	141.557	170.172
97.5	8.138	13.284	22.464	34.274	48.187	64.929	82.834	101.503	125.949	156.538
100.0	6.831	11.254	17.312	27.012	38.897	52.818	68.957	88.997	115.263	144.308
102.5	5.240	9.003	14.211	21.211	31.252	43.123	58.717	82.065	106.863	133.372
105.0	3.877	6.647	10.974	16.915	24.779	36.386	54.969	76.029	99.194	123.652
107.5	2.699	4.737	7.948	12.842	20.274	35.068	52.140	70.971	92.357	115.208
110.0	1.595	3.215	5.477	10.029	20.995	33.970	49.564	66.972	86.199	107.510
112.5	0.642	1.851	4.627	11.872	21.550	33.274	47.030	63.103	80.678	100.275

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CANDELA TABULATION - (Cont.)

115.0	0.220	1.778	6.916	13.560	21.825	32.395	44.702	59.184	75.473	93.190
117.5	1.163	4.232	8.490	14.479	21.950	31.164	42.366	55.068	70.119	86.451
120.0	3.084	5.905	9.759	14.769	21.532	29.614	39.637	51.245	64.526	79.607
122.5	4.254	6.915	10.407	14.918	20.647	27.915	36.470	47.036	58.806	72.528
125.0	4.762	7.236	10.397	14.558	19.462	25.914	33.451	42.531	53.142	65.187
127.5	4.728	7.065	9.977	13.634	18.235	23.672	30.416	37.959	47.423	57.732
130.0	4.367	6.495	9.149	12.382	16.455	21.303	27.152	33.991	41.804	51.939
132.5	3.692	5.569	7.932	10.935	14.453	18.752	23.623	29.775	37.731	47.128
135.0	2.907	4.511	6.559	9.174	12.332	15.999	20.687	27.065	34.425	42.570
137.5	2.034	3.377	5.163	7.264	10.076	14.079	19.135	24.675	31.179	38.068
140.0	1.029	2.265	3.753	6.054	9.274	13.118	17.410	22.477	27.964	34.182
142.5	0.548	1.536	3.526	5.932	8.817	12.052	15.846	20.199	24.910	30.390
145.0	1.094	2.185	3.646	5.660	8.229	11.087	14.410	18.118	22.207	26.728
147.5	1.701	2.575	3.804	5.469	7.385	10.056	12.884	16.122	19.623	23.341
150.0	1.916	2.776	3.857	5.116	6.926	8.875	11.328	14.168	17.313	20.532
152.5	1.832	2.665	3.634	4.869	6.212	7.934	9.942	12.061	14.757	17.645
155.0	1.514	2.264	3.220	4.245	5.533	6.953	8.587	10.425	12.520	14.697
157.5	1.157	1.768	2.483	3.515	4.600	5.775	7.221	8.730	10.302	12.265
160.0	0.635	1.226	1.872	2.539	3.485	4.586	5.724	6.942	8.379	9.808
162.5	0.449	0.666	1.132	1.817	2.524	3.242	4.249	5.322	6.392	7.458
165.0	0.357	0.623	0.913	1.234	1.838	2.494	3.156	3.823	4.612	5.556
167.5	0.214	0.453	0.747	1.051	1.363	1.686	2.210	2.789	3.387	3.976
170.0	0.246	0.312	0.403	0.692	0.985	1.283	1.581	1.891	2.203	2.634
172.5	0.225	0.290	0.357	0.424	0.493	0.674	0.931	1.189	1.447	1.706
175.0	0.166	0.221	0.277	0.332	0.388	0.444	0.500	0.556	0.613	0.677
177.5	0.085	0.119	0.152	0.186	0.219	0.252	0.285	0.318	0.350	0.382
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	887.471	888.834	890.174	891.490	892.777	894.035	895.389	896.448	897.599	898.710
5.0	896.744	899.536	902.334	905.082	907.772	910.399	912.958	915.442	917.846	920.164
7.5	905.178	909.545	913.848	918.079	922.225	926.278	930.239	934.196	938.143	941.729
10.0	912.481	918.438	924.343	930.275	936.103	941.812	947.388	952.816	958.082	963.158
12.5	918.475	926.222	933.890	941.459	948.911	956.207	963.127	969.865	976.401	982.716
15.0	923.084	932.513	941.867	951.084	959.982	968.723	977.280	985.627	993.588	1001.272
17.5	923.825	935.293	946.660	957.843	968.909	979.820	989.933	999.661	1009.167	1018.885
20.0	921.023	934.336	947.574	960.749	973.766	986.160	998.380	1011.313	1021.704	1032.678
22.5	916.294	931.519	946.798	962.047	976.601	990.959	1005.081	1018.550	1031.748	1044.462
25.0	909.489	926.711	944.072	961.142	977.607	995.042	1009.742	1025.253	1040.234	1054.543
27.5	900.476	919.686	939.142	958.030	976.517	994.741	1012.540	1030.066	1046.862	1064.693
30.0	889.146	910.239	931.766	952.566	973.064	993.200	1013.131	1032.572	1051.633	1069.868
32.5	874.442	897.334	920.820	943.792	966.542	988.840	1011.047	1032.443	1053.676	1073.607
35.0	857.036	881.691	907.044	932.214	957.148	981.642	1006.107	1029.383	1052.351	1074.181
37.5	836.846	863.237	890.313	917.607	944.618	971.340	999.272	1023.163	1047.929	1071.539
40.0	813.790	841.865	870.547	901.379	928.728	957.698	986.271	1013.553	1040.202	1065.407
42.5	787.849	817.652	847.712	878.392	909.340	941.693	972.856	1002.966	1032.079	1059.037
45.0	759.669	792.791	826.347	860.056	893.902	927.439	960.243	992.323	1022.586	1051.297
47.5	736.595	770.685	805.224	840.154	875.096	909.846	944.277	977.659	1009.411	1039.957
50.0	711.213	746.022	782.945	817.147	853.101	889.150	924.534	959.113	992.775	1024.673
52.5	683.665	718.996	754.920	791.331	828.123	864.874	901.355	937.354	971.925	1005.384
55.0	654.369	689.851	726.016	762.884	800.106	837.572	875.221	912.675	948.919	983.744
57.5	623.381	658.868	695.097	731.966	769.854	809.422	848.342	886.490	923.021	958.102
60.0	591.449	626.385	662.245	701.629	741.288	780.710	819.555	857.525	894.488	930.038

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CANDELA TABULATION - (Cont.)

62.5	558.208	594.457	633.176	672.204	711.501	750.523	789.053	826.878	863.615	899.165
65.0	527.955	565.515	603.661	642.088	680.657	719.190	757.258	794.620	831.125	866.360
67.5	499.537	536.523	573.645	611.238	649.100	686.916	724.430	761.257	797.185	834.682
70.0	470.889	507.229	543.661	580.112	616.937	653.954	690.744	726.997	765.623	805.549
72.5	442.222	477.841	513.415	549.153	584.686	620.537	656.419	695.680	736.899	776.396
75.0	413.290	448.350	483.349	518.163	552.809	587.165	625.768	667.499	709.426	747.203
77.5	384.098	418.587	453.029	487.594	521.037	558.055	599.034	639.854	679.606	718.088
80.0	354.951	388.551	422.413	456.072	492.249	533.049	573.205	612.753	651.684	689.977
82.5	325.911	358.504	391.515	426.648	467.661	507.762	547.579	586.284	624.302	661.087
85.0	297.079	328.727	361.617	402.471	442.883	482.727	521.827	560.040	597.340	633.684
87.5	268.621	299.242	338.865	379.430	418.183	457.280	495.881	533.616	570.384	606.198
90.0	241.194	277.888	316.579	355.181	393.800	432.121	469.747	507.014	543.337	578.623
92.5	221.378	257.743	294.921	332.413	369.779	407.295	444.212	480.485	516.078	550.947
95.0	204.141	238.992	274.185	310.434	346.550	382.821	418.874	454.442	489.273	522.908
97.5	188.661	221.542	255.213	289.531	324.322	360.228	393.994	428.465	462.707	495.535
100.0	174.141	205.377	237.567	269.930	303.308	336.492	369.986	403.207	436.214	468.326
102.5	161.487	190.430	221.106	252.098	283.595	315.400	347.223	379.154	410.559	441.753
105.0	150.013	177.325	205.759	235.280	264.823	295.601	326.370	356.243	386.142	416.195
107.5	139.531	165.301	191.666	219.579	247.769	276.828	305.718	334.503	363.031	391.740
110.0	129.930	154.106	179.070	204.970	231.640	258.900	286.268	313.743	341.118	368.380
112.5	121.291	143.520	167.085	191.304	216.510	241.775	267.769	293.726	319.946	345.978
115.0	112.854	133.094	155.577	178.295	201.964	225.788	250.216	274.610	299.585	324.297
117.5	104.438	123.712	144.250	165.721	187.765	210.328	233.331	256.524	279.998	303.338
120.0	95.957	113.896	132.718	153.152	173.929	195.274	216.816	238.762	260.923	283.058
122.5	87.410	103.891	121.797	140.819	160.263	180.420	200.691	221.392	242.142	263.022
125.0	78.799	94.219	111.104	128.693	146.943	165.712	184.777	204.247	223.727	243.175
127.5	70.795	84.716	100.569	116.610	133.670	151.088	168.975	186.769	205.903	223.965
130.0	63.419	76.405	90.299	104.892	120.499	137.168	153.121	170.033	187.138	204.462
132.5	57.179	68.523	80.503	93.738	107.627	122.066	137.337	152.803	168.659	184.737
135.0	51.513	61.306	71.693	83.374	95.373	108.400	121.961	136.151	150.267	164.940
137.5	46.172	54.634	63.961	73.871	84.215	95.717	107.430	119.614	132.538	145.527
140.0	41.029	48.338	56.600	65.125	74.355	84.105	94.048	104.823	115.663	127.169
142.5	36.113	42.657	49.618	56.897	65.060	73.402	82.018	91.343	100.767	109.940
145.0	31.591	37.289	43.057	49.505	56.358	63.364	70.951	78.879	86.880	92.959
147.5	27.748	32.288	37.172	42.675	48.302	54.011	60.711	67.323	72.492	77.828
150.0	24.078	27.742	32.068	36.484	40.978	46.088	51.228	55.540	59.768	64.428
152.5	20.624	23.954	27.322	30.956	34.801	38.557	42.009	45.399	49.051	52.814
155.0	17.333	20.158	23.041	25.902	28.694	31.451	34.169	36.940	39.965	42.912
157.5	14.345	16.347	18.353	20.673	22.950	25.182	27.404	29.771	32.132	34.437
160.0	11.231	12.736	14.492	16.212	17.908	19.761	21.498	23.413	25.274	27.078
162.5	8.667	9.935	11.191	12.433	13.715	15.125	16.577	17.996	19.381	20.730
165.0	6.494	7.424	8.344	9.309	10.378	11.429	12.460	13.469	14.454	15.490
167.5	4.564	5.176	5.963	6.738	7.501	8.251	8.986	9.705	10.420	11.221
170.0	3.126	3.615	4.099	4.578	5.053	5.520	6.056	6.536	7.100	7.648
172.5	1.965	2.225	2.484	2.742	3.035	3.393	3.744	4.086	4.419	4.743
175.0	0.836	1.022	1.205	1.386	1.564	1.733	1.911	2.078	2.242	2.402
177.5	0.413	0.444	0.475	0.505	0.534	0.563	0.589	0.619	0.646	0.672
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184	877.184
2.5	899.778	900.802	901.778	902.706	903.582	904.406	905.176	905.890	907.692	907.941
5.0	922.392	924.523	926.555	928.480	930.297	932.000	933.585	935.050	936.392	937.606
7.5	945.286	948.693	951.939	955.018	957.921	960.640	963.168	965.500	967.629	969.551

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CANDELA TABULATION - (Cont.)

10.0	967.845	972.343	976.626	980.683	984.501	988.072	991.385	994.430	997.202	999.693
12.5	988.789	994.598	1000.083	1005.294	1010.213	1014.823	1019.110	1023.058	1026.654	1029.887
15.0	1008.698	1015.842	1022.680	1029.057	1034.972	1040.526	1045.698	1050.467	1054.852	1058.722
17.5	1027.045	1035.348	1043.317	1050.921	1058.021	1064.411	1070.358	1075.835	1080.818	1085.287
20.0	1043.294	1053.053	1062.036	1070.610	1078.736	1086.366	1093.478	1100.074	1106.114	1111.561
22.5	1056.366	1067.810	1078.703	1088.842	1098.369	1107.367	1115.702	1123.186	1130.086	1136.351
25.0	1068.421	1081.459	1093.900	1106.397	1116.261	1126.079	1135.303	1143.651	1150.863	1157.450
27.5	1078.791	1093.745	1107.621	1120.411	1132.578	1142.812	1152.052	1160.376	1167.823	1175.016
30.0	1087.371	1103.768	1119.014	1133.299	1145.856	1157.613	1167.383	1176.041	1183.591	1190.101
32.5	1093.152	1110.948	1128.178	1143.473	1157.862	1170.127	1182.104	1190.961	1199.457	1206.514
35.0	1094.977	1114.682	1132.983	1150.554	1166.100	1180.918	1193.383	1204.482	1213.625	1221.428
37.5	1093.780	1115.283	1134.966	1153.844	1171.252	1186.875	1202.291	1213.839	1225.715	1234.705
40.0	1089.244	1112.232	1133.627	1153.964	1173.604	1190.096	1205.459	1219.077	1230.669	1241.435
42.5	1084.860	1109.570	1132.300	1153.848	1174.210	1192.026	1207.853	1221.947	1233.298	1242.940
45.0	1078.849	1104.744	1128.816	1151.579	1172.784	1191.545	1208.563	1223.819	1236.248	1246.888
47.5	1068.930	1095.907	1121.535	1145.685	1167.152	1186.836	1204.630	1219.824	1232.243	1242.748
50.0	1054.627	1083.244	1110.702	1134.002	1156.128	1176.602	1194.620	1210.039	1223.229	1234.299
52.5	1037.068	1066.345	1093.283	1118.350	1141.437	1161.962	1180.751	1199.024	1212.854	1226.286
55.0	1015.749	1045.828	1073.977	1099.216	1122.464	1144.017	1165.385	1184.078	1200.229	1213.575
57.5	991.596	1022.365	1050.731	1077.102	1102.262	1126.523	1148.749	1167.662	1184.197	1196.923
60.0	963.731	995.617	1024.885	1054.415	1082.107	1106.728	1128.992	1148.868	1165.202	1177.850
62.5	933.390	966.204	999.992	1030.664	1058.599	1085.150	1106.879	1127.317	1143.495	1157.294
65.0	902.089	938.895	972.853	1004.378	1032.689	1058.735	1082.175	1102.429	1119.663	1134.626
67.5	873.284	910.096	944.149	975.866	1004.809	1030.950	1054.647	1075.250	1093.379	1108.887
70.0	843.722	880.073	914.689	946.382	975.634	1001.861	1025.724	1046.710	1065.302	1081.270
72.5	815.656	849.776	883.641	915.862	945.609	971.848	995.836	1017.283	1036.519	1053.076
75.0	784.540	819.785	853.106	884.428	913.667	940.701	965.050	986.901	1007.630	1023.842
77.5	755.012	790.232	823.213	854.800	881.854	908.186	932.838	955.392	975.695	993.141
80.0	725.895	760.504	793.572	823.199	850.533	876.274	900.519	922.972	943.537	960.627
82.5	697.294	731.674	763.342	792.113	819.330	844.749	868.528	890.635	911.063	927.055
85.0	668.840	702.921	733.173	761.534	788.296	813.509	837.035	858.755	878.884	893.639
87.5	640.932	673.177	702.965	731.062	757.684	782.663	806.067	827.868	846.885	861.027
90.0	612.661	643.763	673.213	701.067	727.305	752.166	775.428	798.353	814.732	828.613
92.5	583.825	614.716	644.020	671.758	697.861	722.489	745.544	767.033	782.874	796.698
95.0	555.159	586.136	615.438	643.045	669.084	693.658	716.664	737.593	751.948	765.150
97.5	527.063	558.382	586.691	614.702	640.767	665.640	688.688	707.719	721.462	734.134
100.0	499.548	529.561	558.317	585.813	612.201	637.356	661.167	678.224	691.348	703.491
102.5	472.311	501.928	530.451	557.764	583.822	608.636	632.210	646.836	660.095	672.226
105.0	445.610	474.544	502.692	529.832	555.728	580.437	601.753	615.628	628.469	640.261
107.5	419.870	447.855	475.138	501.646	527.359	552.050	572.039	584.220	596.756	608.296
110.0	395.231	422.075	448.264	473.908	498.957	523.145	538.606	551.808	564.169	575.540
112.5	371.737	397.290	422.287	446.938	471.049	492.594	506.258	519.165	531.120	541.917
115.0	348.966	373.369	397.267	420.880	443.931	461.635	474.693	487.051	498.504	509.030
117.5	326.859	350.101	372.955	395.567	417.603	431.503	443.903	455.632	466.545	476.611
120.0	305.317	327.336	349.125	370.694	389.621	401.989	413.742	424.817	435.140	444.682
122.5	284.054	304.910	325.609	346.060	361.019	372.724	383.861	394.274	404.106	413.129
125.0	263.055	282.579	302.112	320.948	332.634	344.444	354.278	364.161	373.358	381.843
127.5	242.375	261.269	278.950	293.566	304.455	314.830	324.788	334.121	342.803	350.725
130.0	221.753	238.976	256.062	266.714	276.835	286.507	295.745	304.406	312.465	319.894
132.5	200.818	216.902	230.085	239.920	249.559	258.575	267.109	275.109	282.548	289.397
135.0	179.639	194.081	204.031	213.393	222.148	230.723	238.678	246.095	252.953	259.230
137.5	158.566	169.366	178.449	187.076	196.027	203.099	210.500	217.379	223.720	229.503
140.0	137.524	146.012	154.119	161.753	169.168	176.419	183.186	189.454	195.211	200.445
142.5	117.338	124.665	131.698	138.420	144.972	151.435	157.474	163.076	168.230	172.924
145.0	99.352	105.521	111.451	117.128	122.861	128.468	133.728	138.628	143.154	147.291
147.5	83.235	88.424	93.444	98.467	103.175	107.884	112.309	116.436	120.254	123.750

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CANDELA TABULATION - (Cont.)

150.0	68.923	73.248	77.395	81.470	85.646	89.589	93.290	96.738	99.925	102.840
152.5	56.454	59.964	63.338	66.826	70.269	73.519	76.566	79.406	82.029	84.430
155.0	45.777	48.552	51.266	54.192	56.973	59.603	62.076	64.385	66.524	68.488
157.5	36.679	38.854	41.128	43.417	45.600	47.673	49.629	51.462	53.166	54.735
160.0	28.821	30.552	32.396	34.164	35.852	37.455	38.954	40.387	41.707	42.923
162.5	22.074	23.504	24.888	26.265	27.545	28.754	29.891	30.951	31.933	32.834
165.0	16.513	17.594	18.632	19.625	20.572	21.469	22.315	23.106	23.841	24.518
167.5	11.996	12.744	13.461	14.151	14.808	15.430	16.017	16.567	17.078	17.549
170.0	8.178	8.688	9.178	9.647	10.093	10.515	10.913	11.285	11.631	11.949
172.5	5.057	5.360	5.652	5.932	6.199	6.452	6.691	6.915	7.113	7.316
175.0	2.557	2.706	2.851	2.989	3.121	3.247	3.365	3.476	3.578	3.673
177.5	0.697	0.721	0.744	0.766	0.787	0.807	0.825	0.843	0.888	0.894
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	877.184	877.184	877.184	877.184	877.184
2.5	908.192	908.446	908.702	908.959	909.216
5.0	939.784	940.261	940.742	941.225	941.710
7.5	971.259	973.772	974.477	975.187	975.898
10.0	1001.897	1003.811	1006.029	1006.901	1007.776
12.5	1032.745	1035.219	1038.112	1039.189	1040.270
15.0	1062.175	1065.162	1068.743	1069.941	1071.224
17.5	1089.222	1092.611	1095.441	1097.992	1099.406
20.0	1116.380	1120.540	1124.013	1127.147	1128.820
22.5	1141.930	1146.777	1150.850	1154.541	1156.540
25.0	1163.354	1168.521	1172.903	1176.899	1179.178
27.5	1181.599	1187.485	1192.654	1197.318	1200.122
30.0	1197.605	1204.109	1209.556	1214.450	1217.216
32.5	1211.701	1218.720	1225.090	1231.113	1234.618
35.0	1226.946	1230.631	1237.621	1243.847	1248.786
37.5	1241.235	1244.563	1246.914	1254.426	1260.644
40.0	1249.910	1256.644	1258.591	1261.277	1270.038
42.5	1251.493	1259.350	1266.692	1267.858	1273.734
45.0	1255.975	1263.066	1267.868	1270.981	1272.348
47.5	1251.213	1257.224	1265.289	1268.798	1273.734
50.0	1245.036	1254.581	1259.326	1259.616	1270.038
52.5	1237.806	1244.715	1247.011	1252.502	1260.644
55.0	1224.715	1229.791	1232.931	1241.731	1248.786
57.5	1206.571	1213.191	1219.739	1228.080	1234.618
60.0	1187.604	1194.973	1203.795	1211.485	1217.216
62.5	1167.627	1176.051	1185.701	1193.789	1200.122
65.0	1146.066	1156.291	1165.704	1173.356	1179.178
67.5	1121.636	1133.059	1142.821	1151.718	1156.540
70.0	1094.762	1106.098	1115.614	1124.225	1128.820
72.5	1066.622	1077.624	1086.757	1094.925	1099.406
75.0	1037.263	1048.499	1057.926	1066.438	1071.224
77.5	1006.134	1017.386	1026.843	1035.394	1040.270
80.0	973.723	984.967	994.368	1002.816	1007.776
82.5	940.366	951.859	961.617	970.496	975.898
85.0	906.587	917.852	927.441	936.172	941.710
87.5	873.681	884.827	894.460	903.324	909.216
90.0	841.377	852.513	862.185	871.114	877.184
92.5	809.066	820.091	829.758	838.741	844.998
95.0	777.160	787.942	797.466	806.364	812.658

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CANDELA TABULATION - (Cont.)

97.5	745.507	756.108	765.340	773.987	780.164
100.0	714.609	724.654	733.588	741.974	747.978
102.5	683.212	693.038	701.694	709.762	715.484
105.0	650.983	660.614	669.139	677.113	682.836
107.5	618.813	628.281	636.677	644.542	650.188
110.0	585.892	595.196	603.431	611.136	616.616
112.5	551.984	560.998	568.951	576.371	581.658
115.0	518.610	527.226	534.864	541.823	547.162
117.5	485.808	494.109	501.493	508.424	513.436
120.0	453.413	461.306	468.336	474.940	479.710
122.5	421.378	428.829	435.455	441.674	446.138
125.0	389.589	396.572	402.769	408.579	412.720
127.5	358.105	364.673	370.487	375.931	379.764
130.0	326.663	332.750	338.126	343.154	346.654
132.5	295.629	301.216	306.132	310.721	313.852
135.0	264.906	269.959	274.372	278.470	281.204
137.5	234.711	239.329	243.339	247.051	249.480
140.0	205.143	209.294	214.046	216.208	218.372
142.5	177.147	180.886	185.164	187.137	189.112
145.0	151.027	154.348	158.154	159.926	161.700
147.5	126.911	129.726	132.951	134.466	135.982
150.0	105.475	107.821	110.504	111.770	113.036
152.5	86.602	88.536	90.672	91.802	92.862
155.0	70.269	71.862	73.676	74.567	75.460
157.5	56.165	57.449	58.909	59.638	60.368
160.0	44.029	45.022	46.155	46.716	47.278
162.5	33.651	34.382	35.213	35.624	36.036
165.0	25.135	25.688	26.316	26.633	26.950
167.5	17.978	18.579	18.802	19.026	19.250
170.0	12.238	12.644	12.793	12.941	13.090
172.5	7.491	7.738	7.828	7.918	8.008
175.0	3.841	3.882	3.922	3.963	4.004
177.5	0.900	0.906	0.912	0.918	0.924
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	320.42	N.A.	8.40
0-30	686.32	N.A.	18.00
0-40	1136.82	N.A.	29.80
0-60	2084.08	N.A.	54.60
0-80	2838.14	N.A.	74.30
0-90	3117.37	N.A.	81.70
10-90	3034.85	N.A.	79.50
20-40	816.39	N.A.	21.40
20-50	1299.13	N.A.	34.00
40-70	1357.78	N.A.	35.60
60-80	754.06	N.A.	19.80
70-80	343.55	N.A.	9.00
80-90	279.23	N.A.	7.30
90-110	398.22	N.A.	10.40
90-120	527.05	N.A.	13.80
90-130	614.39	N.A.	16.10
90-150	689.23	N.A.	18.10
90-180	699.99	N.A.	18.30
110-180	301.77	N.A.	7.90
0-180	3817.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.52
10-20	237.90
20-30	365.90
30-40	450.49
40-50	482.74
50-60	464.53
60-70	410.51
70-80	343.55
80-90	279.23
90-100	223.78
100-110	174.44
110-120	128.83
120-130	87.34
130-140	50.94
140-150	23.90
150-160	8.59
160-170	2.00
170-180	0.16

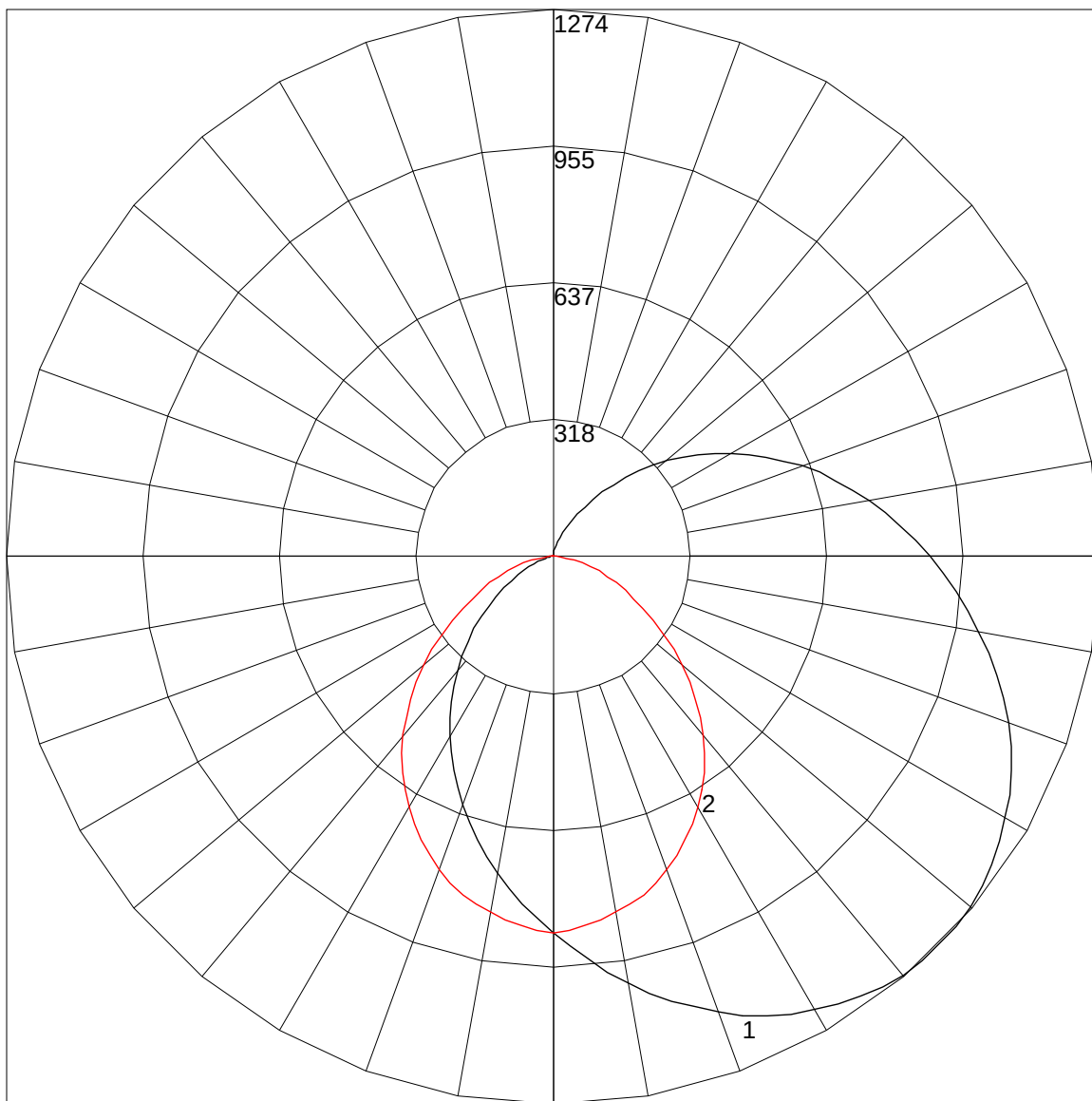
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	102	96	91	86	97	92	87	83	84	80	77	77	74	71	70	68	66	62
2	92	82	74	68	87	79	72	66	72	66	61	66	61	57	60	57	53	50
3	83	71	63	55	79	68	60	54	63	56	50	58	52	47	53	48	44	41
4	76	63	54	46	72	60	52	45	55	48	42	51	45	40	47	42	37	35
5	69	56	46	39	66	54	45	38	49	42	36	45	39	34	42	36	32	30
6	64	50	41	34	61	48	40	33	44	37	32	41	35	30	38	32	28	26
7	59	45	36	30	56	44	35	29	40	33	28	37	31	26	34	29	25	23
8	55	41	32	26	52	40	31	26	37	30	25	34	28	23	32	26	22	20
9	51	38	29	24	49	36	28	23	34	27	22	31	25	21	29	24	20	18
10	48	35	27	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

POLAR GRAPH



Maximum Candela = 1273.734 Located At Horizontal Angle = 0, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)