



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1410211019-002-001-P
[TESTLAB]Intertek
[ISSUE DATE]10/27/2014
[MANUFAC]LAMAR LIGHTING CO., INC.
[LUMCAT]MCNL48MFA35
[MORE]MED POWER SETTING (OUTPUT 880MA)
[LUMINAIRE]SURFACE MOUNT
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 3480 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	3480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	8208	5774	2769
55	9868	6267	2206
65	12512	6964	1641
75	18134	8397	1147
85	42592	13716	441

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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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	828.922	828.687	828.453	828.220	827.989	827.759	827.532	825.890	825.239	824.537
5.0	858.546	858.104	857.663	857.225	856.790	854.805	853.697	852.475	851.139	849.693
7.5	889.715	889.067	888.420	887.777	885.487	883.929	882.177	880.236	878.109	875.804
10.0	918.778	917.980	917.186	915.163	913.419	911.409	909.138	906.611	903.834	900.814
12.5	948.402	947.416	946.434	943.797	941.542	938.886	935.989	932.710	929.110	925.202
15.0	976.622	975.452	974.288	971.095	968.372	965.224	961.661	957.698	953.350	948.635
17.5	1002.316	1001.027	998.702	996.121	993.031	989.443	985.369	980.826	975.833	970.411
20.0	1029.132	1027.606	1024.750	1021.583	1017.791	1013.398	1008.432	1002.925	996.896	990.427
22.5	1054.404	1052.579	1049.193	1045.503	1041.084	1035.998	1030.287	1023.996	1017.173	1009.542
25.0	1075.043	1072.965	1069.323	1065.327	1060.616	1055.234	1049.229	1042.653	1035.042	1026.633
27.5	1094.137	1091.581	1087.267	1082.616	1077.250	1071.248	1064.691	1057.902	1050.312	1041.888
30.0	1109.722	1107.200	1102.738	1097.772	1091.842	1085.001	1079.066	1072.183	1064.289	1055.383
32.5	1125.587	1122.392	1116.900	1111.094	1104.694	1099.965	1093.531	1085.785	1077.709	1066.784
35.0	1138.504	1134.001	1128.325	1121.952	1118.593	1113.562	1106.448	1098.112	1087.993	1076.628
37.5	1149.314	1143.645	1136.797	1134.654	1131.619	1125.666	1117.470	1106.643	1096.115	1082.052
40.0	1157.879	1149.892	1147.442	1145.667	1139.528	1131.802	1121.986	1111.418	1098.998	1084.997
42.5	1161.248	1155.892	1154.828	1148.134	1140.971	1133.174	1124.384	1114.035	1101.199	1086.757
45.0	1159.985	1158.739	1155.901	1151.523	1145.058	1136.772	1127.072	1115.742	1101.833	1086.317
47.5	1161.248	1156.749	1153.549	1146.196	1140.716	1132.998	1123.421	1112.096	1098.247	1082.024
50.0	1157.879	1148.378	1148.113	1143.787	1135.084	1125.296	1115.203	1103.168	1089.121	1072.694
52.5	1149.314	1141.930	1136.885	1134.792	1128.493	1117.991	1105.744	1093.136	1076.477	1059.347
55.0	1138.504	1132.072	1124.049	1121.187	1116.558	1106.402	1094.234	1079.510	1062.469	1042.981
57.5	1125.587	1119.627	1112.022	1106.052	1100.017	1091.220	1079.617	1064.544	1047.301	1027.037
60.0	1109.722	1104.497	1097.485	1089.443	1082.724	1073.832	1062.301	1047.409	1029.288	1008.991
62.5	1094.137	1088.364	1080.990	1072.192	1064.512	1055.092	1042.511	1027.762	1009.129	989.318
65.0	1075.043	1069.735	1062.759	1054.177	1044.855	1034.426	1020.784	1005.072	986.606	965.236
67.5	1054.404	1050.008	1041.896	1032.996	1022.582	1010.960	996.821	980.293	961.508	939.905
70.0	1029.132	1024.943	1017.093	1008.417	998.082	985.782	971.224	954.273	935.183	913.385
72.5	1002.316	998.231	990.783	982.458	972.426	960.076	944.982	927.445	907.892	886.022
75.0	976.622	972.258	964.498	955.904	945.660	933.425	918.644	899.746	879.825	857.626
77.5	948.402	943.957	936.161	927.539	917.281	905.435	889.529	871.020	850.458	827.982
80.0	918.778	914.256	906.554	897.984	887.731	875.792	860.212	841.463	820.993	798.888
82.5	889.715	884.791	876.695	867.799	857.320	845.286	830.605	811.981	791.827	770.148
85.0	858.546	853.497	845.538	836.795	826.524	814.720	801.268	782.917	763.115	741.666
87.5	828.922	823.550	815.469	806.687	796.524	784.988	772.095	754.887	734.882	713.546
90.0	799.718	794.184	786.044	777.226	767.074	755.588	742.782	727.849	706.949	685.741
92.5	770.375	764.671	756.481	747.667	737.616	726.341	713.863	699.295	679.704	658.686
95.0	740.891	735.153	727.040	718.358	708.528	697.579	685.542	672.455	653.375	632.400
97.5	711.266	705.635	697.751	689.335	679.842	669.302	657.748	645.219	627.869	606.857
100.0	681.923	676.449	668.803	660.659	651.500	641.365	630.294	618.329	602.778	581.070
102.5	652.298	647.081	639.725	631.835	622.877	612.861	601.801	589.714	576.379	554.886
105.0	622.534	617.316	610.047	602.274	593.494	583.719	572.968	561.261	548.611	529.178
107.5	592.769	587.622	580.452	572.796	564.164	554.576	544.055	532.627	521.521	503.298
110.0	562.162	557.342	550.141	542.634	534.150	524.713	514.346	503.076	491.041	476.945
112.5	530.291	525.472	518.717	511.492	503.322	494.225	484.216	473.316	461.548	449.092
115.0	498.841	494.148	487.629	480.665	472.810	464.077	454.481	444.039	432.772	420.868
117.5	468.094	463.525	457.206	450.474	442.905	434.521	425.343	415.395	404.701	393.397
120.0	437.346	432.997	426.976	420.568	413.372	405.411	396.712	387.301	377.203	366.488
122.5	406.739	402.670	397.000	390.958	384.166	376.644	368.419	359.516	349.962	339.809
125.0	376.272	372.496	367.200	361.550	355.183	348.122	340.386	332.002	322.992	314.026
127.5	346.226	342.731	337.768	332.468	326.480	319.826	312.529	304.614	296.105	287.026
130.0	316.040	312.849	308.265	303.364	297.815	291.643	284.871	277.523	269.626	261.206
132.5	286.135	283.280	279.097	274.615	269.521	263.840	257.596	250.813	243.520	235.740

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CANDELA TABULATION - (Cont.)

135.0	256.370	253.877	250.141	246.118	241.511	236.337	230.614	224.362	217.600	210.348
137.5	227.448	225.233	221.850	218.278	213.984	209.235	204.076	198.182	191.910	185.204
140.0	199.087	197.114	195.143	190.811	187.026	182.743	177.972	172.723	167.008	160.839
142.5	172.411	170.610	168.811	164.912	161.503	157.653	153.374	148.675	143.567	138.061
145.0	147.420	145.803	144.187	140.717	137.690	134.284	130.512	126.386	121.918	117.122
147.5	123.973	122.591	121.210	118.270	115.704	112.821	109.635	106.154	102.391	98.357
150.0	103.054	101.899	100.823	98.299	96.161	93.758	91.100	88.195	85.051	81.677
152.5	84.661	83.694	82.728	80.717	78.953	76.974	74.785	72.394	69.805	67.026
155.0	68.796	67.982	67.169	65.516	64.064	62.440	60.650	58.699	56.594	54.342
157.5	55.037	54.371	53.707	52.375	51.205	49.902	48.471	46.917	45.246	43.463
160.0	43.103	42.591	42.079	41.047	40.141	39.132	38.024	36.821	35.527	34.148
162.5	32.854	32.478	32.103	31.363	30.680	29.935	29.138	28.218	27.251	26.227
165.0	24.570	24.281	23.992	23.420	22.915	22.353	21.736	21.066	20.344	19.573
167.5	17.550	17.346	17.142	16.938	16.409	15.999	15.570	15.104	14.624	14.067
170.0	11.934	11.798	11.663	11.528	11.157	10.894	10.604	10.289	9.949	9.587
172.5	7.301	7.219	7.137	7.055	6.830	6.671	6.495	6.305	6.101	5.883
175.0	3.650	3.613	3.575	3.538	3.501	3.348	3.261	3.168	3.067	2.960
177.5	0.842	0.836	0.831	0.825	0.820	0.814	0.809	0.768	0.752	0.735
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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	823.786	822.986	822.141	821.251	820.317	819.344	818.331	817.234	816.197	815.081
5.0	848.141	846.485	844.729	842.877	840.934	838.903	836.789	834.598	832.333	830.000
7.5	873.325	870.679	867.872	864.912	861.807	858.563	855.190	851.696	848.089	844.477
10.0	897.559	894.077	890.379	886.474	882.373	878.088	873.472	868.671	863.722	858.639
12.5	920.999	916.515	911.764	906.764	901.468	895.931	890.174	884.214	878.071	871.762
15.0	943.572	938.179	932.366	926.132	919.618	912.847	905.843	898.584	890.974	883.173
17.5	964.585	958.112	951.180	943.915	936.345	928.808	920.046	911.379	902.511	893.290
20.0	983.471	976.063	968.245	960.056	951.159	941.480	931.475	922.003	910.212	899.070
22.5	1001.371	992.685	983.442	973.510	963.077	952.224	940.632	928.600	916.320	903.446
25.0	1017.682	1008.650	997.296	985.954	974.067	961.410	948.369	934.711	920.570	907.168
27.5	1032.558	1021.466	1009.805	997.155	983.522	970.667	954.412	939.099	923.121	906.803
30.0	1044.663	1033.216	1020.192	1006.293	991.343	975.363	958.761	941.383	923.660	905.489
32.5	1055.609	1042.491	1028.547	1012.839	996.614	978.795	960.624	941.266	921.759	901.514
35.0	1063.119	1048.946	1032.927	1016.184	998.278	979.318	959.416	938.476	917.256	894.951
37.5	1067.816	1051.940	1034.735	1016.791	997.187	976.909	955.385	932.806	911.024	885.559
40.0	1069.961	1052.048	1033.515	1014.009	993.051	971.320	948.246	924.045	899.172	873.122
42.5	1070.514	1051.949	1032.304	1011.582	989.054	965.511	940.935	914.392	886.942	858.531
45.0	1069.213	1049.881	1029.129	1007.183	983.577	958.455	932.280	904.689	875.442	845.535
47.5	1064.079	1044.515	1022.491	999.126	974.531	948.117	920.268	891.320	860.886	829.495
50.0	1054.028	1033.856	1012.615	987.581	961.491	934.182	905.101	874.412	842.883	810.628
52.5	1040.635	1019.587	996.733	972.174	945.482	916.597	886.081	854.574	821.755	788.486
55.0	1023.337	1002.142	979.133	953.469	926.047	896.868	865.118	832.075	797.929	763.604
57.5	1004.920	981.981	957.939	932.078	904.026	873.490	841.508	808.203	773.424	737.941
60.0	986.545	961.298	934.376	907.692	878.623	847.905	815.494	781.796	747.179	711.764
62.5	965.112	939.644	911.682	880.877	850.961	819.780	787.347	753.855	719.371	684.243
65.0	941.491	915.680	886.939	855.980	822.424	789.850	757.727	724.446	690.384	655.677
67.5	916.073	889.686	860.899	829.724	796.163	760.969	726.785	694.029	660.454	626.253
70.0	889.475	862.805	833.912	802.352	769.212	734.410	698.010	662.795	629.744	596.202
72.5	862.101	834.981	805.606	774.732	743.624	707.831	671.822	634.242	598.449	565.736
75.0	832.979	806.323	777.767	747.389	715.256	681.216	646.775	608.550	570.506	535.311
77.5	803.976	779.312	750.514	720.446	688.336	654.672	619.589	583.347	546.133	508.772
80.0	775.421	750.693	723.490	693.343	661.790	629.044	594.133	558.640	522.585	485.975

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CANDELA TABULATION - (Cont.)

82.5	746.974	722.160	695.930	667.059	635.715	602.891	569.548	534.508	499.587	463.150
85.0	718.680	694.282	668.426	640.845	609.773	577.721	544.588	510.582	475.744	440.096
87.5	690.772	666.501	640.884	613.727	584.330	552.663	520.012	486.492	452.089	416.896
90.0	663.076	639.155	613.760	586.910	558.556	527.523	495.354	462.239	428.263	393.959
92.5	636.231	612.643	587.146	560.428	532.267	502.291	470.502	438.053	404.983	371.326
95.0	609.996	586.257	561.088	534.373	506.132	476.729	446.065	414.309	381.882	349.013
97.5	584.463	560.416	534.880	509.070	480.518	451.774	421.845	390.626	359.261	328.416
100.0	558.137	534.079	509.011	482.794	455.433	426.966	397.691	367.599	337.312	306.776
102.5	532.264	508.508	483.606	457.602	430.600	402.741	374.302	345.670	316.559	287.546
105.0	506.651	483.042	458.298	432.636	406.257	379.440	352.041	324.783	297.547	269.496
107.5	480.787	457.345	433.178	408.304	382.790	357.145	331.255	304.962	278.719	252.381
110.0	454.893	432.403	408.677	384.800	360.328	335.848	310.993	286.036	260.988	236.511
112.5	429.450	407.469	384.995	362.204	338.909	315.424	291.691	267.787	244.123	220.424
115.0	404.727	383.712	362.185	340.396	318.148	295.658	273.129	250.359	228.119	205.849
117.5	380.724	360.634	340.019	319.183	297.994	276.550	255.271	233.870	212.725	191.753
120.0	355.213	337.958	318.293	298.429	278.354	258.060	237.881	217.676	197.669	178.029
122.5	329.137	315.499	296.853	277.983	258.969	239.794	220.757	201.840	182.968	164.487
125.0	303.258	292.604	275.432	257.624	239.824	221.892	203.969	186.210	168.459	151.078
127.5	277.568	267.641	254.316	238.196	220.971	204.186	187.720	170.646	154.053	137.745
130.0	252.387	243.161	233.557	217.872	202.170	186.406	170.612	155.017	139.599	125.055
132.5	227.521	218.862	209.766	197.747	183.296	168.423	153.764	139.379	125.208	111.286
135.0	202.650	194.548	186.013	177.064	163.775	150.374	136.997	124.128	111.191	98.827
137.5	178.715	170.555	162.690	154.409	144.563	132.675	120.834	109.322	97.943	87.264
140.0	154.228	147.539	140.509	133.118	125.379	115.938	105.720	95.567	85.743	76.677
142.5	132.170	126.196	120.067	113.656	106.976	100.231	91.868	83.498	74.775	66.919
145.0	112.011	106.784	101.608	96.202	90.578	84.749	79.216	71.913	64.877	57.768
147.5	94.063	89.771	85.192	80.634	75.885	70.970	66.090	61.380	55.350	49.390
150.0	78.082	74.274	70.559	66.780	62.837	58.739	54.493	50.635	46.704	42.018
152.5	64.064	60.924	57.744	54.669	51.469	48.216	44.720	41.391	38.300	35.152
155.0	51.942	49.406	46.739	44.264	41.734	39.123	36.435	33.678	31.151	28.673
157.5	41.574	39.583	37.496	35.423	33.440	31.408	29.295	27.142	24.983	22.957
160.0	32.686	31.147	29.535	27.854	26.276	24.686	23.042	21.345	19.599	18.016
162.5	25.112	23.945	22.717	21.429	20.125	18.899	17.670	16.407	15.113	13.790
165.0	18.755	17.892	16.987	16.041	15.056	14.122	13.178	12.279	11.359	10.420
167.5	13.500	12.902	12.274	11.619	10.937	10.230	9.500	8.848	8.193	7.523
170.0	9.202	8.795	8.368	7.921	7.456	6.991	6.473	5.958	5.522	5.033
172.5	5.652	5.408	5.153	4.887	4.610	4.324	4.029	3.725	3.413	3.093
175.0	2.845	2.724	2.598	2.467	2.330	2.189	2.044	1.895	1.742	1.585
177.5	0.717	0.698	0.678	0.657	0.635	0.612	0.588	0.564	0.539	0.514
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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	813.935	812.761	811.561	810.339	809.097	807.837	806.561	805.273	803.975	802.669
5.0	827.605	825.152	822.648	820.097	817.551	814.978	812.378	809.755	807.116	804.466
7.5	840.782	837.002	833.145	829.221	825.240	821.172	817.142	813.994	809.051	805.025
10.0	853.434	848.116	842.713	837.329	831.898	826.409	820.876	815.312	809.730	804.271
12.5	865.110	858.317	851.416	844.426	837.363	830.348	823.181	816.241	809.166	803.094
15.0	875.204	867.091	858.688	850.160	841.564	832.920	824.320	815.726	807.139	798.579
17.5	883.343	873.254	863.059	852.695	842.241	831.787	821.374	811.099	800.897	790.794
20.0	887.771	875.903	863.892	851.823	839.685	827.569	815.512	803.658	791.927	780.440
22.5	890.356	877.086	863.185	849.126	835.375	821.595	807.915	794.498	781.262	768.244
25.0	891.273	876.262	860.700	844.872	829.171	813.746	798.469	783.545	768.846	754.393
27.5	890.279	873.425	856.205	838.468	820.954	803.924	788.218	770.748	754.641	738.718

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CANDELA TABULATION - (Cont.)

30.0	887.132	868.388	849.480	829.760	810.624	792.052	773.823	756.071	738.548	721.173
32.5	881.185	860.445	839.501	818.089	797.219	776.954	757.243	738.075	719.157	700.646
35.0	872.621	849.888	826.942	803.828	781.350	759.402	738.150	717.386	696.946	677.220
37.5	861.198	836.572	811.688	787.003	762.943	739.480	716.701	694.383	672.614	651.830
40.0	846.710	821.694	793.667	767.518	741.923	717.045	692.821	669.143	645.989	624.384
42.5	829.032	800.819	772.849	745.232	718.273	692.060	666.348	641.717	617.909	595.160
45.0	814.961	784.103	753.371	722.779	692.581	664.520	637.873	612.183	587.535	564.234
47.5	797.815	765.958	734.114	702.625	671.545	640.940	610.842	581.252	555.616	532.005
50.0	777.762	744.984	713.803	680.140	648.405	617.162	586.574	556.992	528.318	501.010
52.5	754.990	721.447	688.252	655.501	623.289	591.777	560.993	531.306	502.905	475.368
55.0	729.447	695.512	661.900	628.929	596.581	564.878	534.366	504.885	476.219	448.796
57.5	701.866	667.325	633.712	600.682	568.329	537.095	506.717	478.010	448.941	421.287
60.0	675.824	639.667	603.762	571.068	539.217	508.148	478.038	449.008	420.613	392.910
62.5	648.667	612.840	577.259	541.959	508.912	478.351	448.703	419.802	391.605	364.227
65.0	620.547	585.384	550.351	515.573	481.331	447.804	418.472	389.975	362.270	335.142
67.5	591.777	557.258	522.986	489.142	455.422	423.487	388.782	359.897	332.585	305.958
70.0	562.454	528.881	495.649	462.434	429.304	396.444	363.884	331.760	302.941	276.910
72.5	533.051	500.656	468.154	435.642	403.168	370.814	338.743	307.349	276.493	247.890
75.0	503.989	472.403	440.665	408.755	376.792	344.948	313.668	282.855	252.537	223.109
77.5	475.024	444.533	413.021	381.620	350.178	319.151	288.536	258.343	228.976	200.629
80.0	448.778	415.796	385.109	354.237	323.605	293.354	263.444	234.257	206.010	178.582
82.5	426.361	388.970	356.939	326.844	297.130	267.667	238.783	210.785	183.537	157.273
85.0	403.771	367.328	329.682	299.696	270.843	242.383	214.795	187.882	161.850	138.021
87.5	381.253	345.923	308.940	272.838	244.898	217.880	191.470	165.772	142.173	119.869
90.0	359.023	323.814	288.621	253.347	219.894	194.164	169.035	145.682	123.603	102.674
92.5	337.123	303.057	268.875	234.981	201.828	171.461	148.424	126.709	106.028	86.482
95.0	315.946	283.019	249.971	217.885	186.113	155.144	129.056	108.836	89.794	72.028
97.5	295.680	263.961	232.675	201.976	172.000	142.714	114.827	92.540	75.519	59.195
100.0	276.522	246.192	216.587	187.239	158.762	131.564	105.339	81.138	62.867	48.153
102.5	258.550	229.835	201.580	173.777	147.226	121.593	97.425	74.817	53.532	39.314
105.0	241.731	214.502	187.588	161.666	136.765	112.731	90.434	69.315	50.114	33.172
107.5	225.888	200.188	174.747	150.702	127.208	105.033	84.547	64.703	47.535	31.971
110.0	211.184	186.869	163.256	140.497	118.456	98.015	78.586	61.057	45.187	30.970
112.5	197.390	174.410	152.330	130.845	110.580	91.759	73.553	57.530	42.877	30.335
115.0	184.128	162.549	141.838	121.714	102.888	84.960	68.808	53.957	40.754	29.534
117.5	171.182	151.085	131.511	112.787	95.215	78.817	63.927	50.205	38.624	28.411
120.0	158.569	139.626	120.997	103.838	87.484	72.576	58.828	46.720	36.136	26.999
122.5	146.110	128.383	111.041	94.717	79.691	66.123	53.613	42.882	33.248	25.449
125.0	133.967	117.328	101.292	85.898	71.841	59.431	48.449	38.775	30.498	23.626
127.5	122.002	106.311	91.688	77.462	64.543	52.634	43.235	34.606	27.730	21.582
130.0	109.858	95.630	82.325	69.658	57.979	47.353	38.112	30.990	24.754	19.422
132.5	98.123	85.460	73.394	62.472	52.130	42.965	34.399	27.146	21.536	17.095
135.0	86.951	76.012	65.362	55.892	46.964	38.811	31.384	24.674	18.860	14.586
137.5	76.778	67.348	58.313	49.809	42.270	34.706	28.426	22.496	17.445	12.836
140.0	67.789	59.374	51.601	44.069	37.406	31.163	25.494	20.492	15.873	11.960
142.5	59.314	51.872	45.236	38.890	32.923	27.706	22.711	18.415	14.447	11.051
145.0	51.381	45.133	39.347	33.996	28.906	24.368	20.246	16.518	13.137	10.107
147.5	44.037	38.907	33.890	29.437	25.298	21.281	17.890	14.698	11.746	9.168
150.0	37.359	33.261	29.236	25.291	21.951	18.719	15.784	12.917	10.328	8.091
152.5	31.728	28.222	24.997	21.838	18.802	16.087	13.453	10.995	9.064	7.233
155.0	26.159	23.614	21.006	18.377	15.802	13.399	11.414	9.504	7.828	6.339
157.5	20.923	18.847	16.732	14.904	13.078	11.182	9.392	7.975	6.584	5.265
160.0	16.326	14.780	13.212	11.626	10.239	8.942	7.640	6.330	5.219	4.181
162.5	12.505	11.335	10.203	9.058	7.902	6.800	5.827	4.851	3.874	2.955
165.0	9.462	8.487	7.623	6.768	5.921	5.066	4.205	3.485	2.877	2.274
167.5	6.839	6.144	5.437	4.719	4.162	3.625	3.088	2.551	2.015	1.537

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CANDELA TABULATION - (Cont.)

170.0	4.606	4.174	3.737	3.295	2.850	2.402	2.008	1.724	1.445	1.169
172.5	2.767	2.500	2.264	2.028	1.792	1.555	1.319	1.084	0.849	0.614
175.0	1.426	1.263	1.099	0.931	0.762	0.617	0.558	0.507	0.455	0.404
177.5	0.487	0.460	0.433	0.405	0.376	0.348	0.319	0.289	0.260	0.230
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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	801.359	800.046	798.734	797.424	796.120	794.824	794.184	792.255	790.991	789.745
5.0	801.810	799.154	796.504	793.864	791.240	788.639	786.044	783.482	780.956	778.470
7.5	800.998	796.978	792.973	788.992	785.042	781.118	777.226	773.389	769.613	765.904
10.0	798.855	793.460	788.095	782.771	777.541	772.251	767.074	761.978	756.972	752.066
12.5	795.322	788.550	781.831	775.176	768.570	762.028	755.437	749.260	743.056	737.064
15.0	790.349	782.214	774.156	766.402	758.261	750.454	742.782	735.810	728.053	720.916
17.5	781.088	771.563	761.980	753.008	743.991	735.194	727.849	718.525	710.669	703.100
20.0	769.151	758.157	748.081	736.840	726.552	717.130	706.949	697.671	688.724	680.358
22.5	755.552	743.105	730.970	719.147	707.627	696.502	685.741	676.664	665.647	656.317
25.0	740.224	726.376	712.982	699.922	687.225	674.923	663.076	651.896	641.166	630.975
27.5	723.116	708.037	693.409	679.137	665.246	653.231	639.155	626.968	615.359	604.322
30.0	704.273	688.057	672.238	656.718	641.690	627.185	613.760	600.656	588.154	576.322
32.5	682.994	666.003	649.110	632.675	616.806	601.566	586.910	572.887	559.586	547.008
35.0	658.359	640.086	622.369	605.482	589.330	573.747	558.556	543.721	529.643	516.191
37.5	631.773	612.447	593.949	576.372	559.455	543.162	527.523	512.526	498.111	484.096
40.0	603.415	583.252	564.267	545.999	528.454	511.574	495.354	479.751	464.781	450.912
42.5	573.364	552.920	533.286	514.525	496.428	479.007	462.239	446.118	431.148	416.892
45.0	542.214	521.840	501.273	481.998	463.412	445.508	428.263	412.182	396.852	382.365
47.5	509.719	488.578	468.178	448.476	429.473	411.145	393.959	377.587	362.133	347.674
50.0	476.292	454.838	434.084	414.032	394.672	376.408	359.023	342.642	327.335	312.875
52.5	448.724	422.636	399.058	378.734	359.437	341.068	323.814	307.679	293.401	278.796
55.0	421.877	395.464	369.589	344.368	323.616	305.552	288.621	272.622	258.215	245.047
57.5	394.156	367.692	341.841	316.561	292.313	270.063	253.347	238.209	224.431	211.850
60.0	365.968	339.581	313.742	288.955	264.986	241.766	219.894	204.317	191.537	180.091
62.5	337.410	311.141	285.906	261.424	239.056	215.351	194.164	175.206	159.445	149.225
65.0	308.630	282.997	258.095	234.115	211.134	189.579	169.035	150.553	133.300	120.203
67.5	280.057	254.840	230.411	207.352	185.328	165.589	145.682	128.263	111.915	97.578
70.0	251.495	226.914	203.602	181.277	160.716	141.148	123.603	107.147	92.293	79.114
72.5	223.274	199.818	177.291	155.797	136.829	119.207	102.589	87.353	73.752	61.631
75.0	195.845	173.227	151.608	132.601	114.963	98.414	82.682	68.665	56.205	45.838
77.5	173.164	147.328	128.340	110.759	94.274	78.192	63.784	50.994	40.383	32.342
80.0	152.185	128.344	106.488	90.157	73.790	59.034	45.935	35.125	27.170	20.987
82.5	133.365	111.044	90.198	69.316	54.333	40.960	29.999	22.137	16.295	12.274
85.0	115.640	94.664	73.972	54.360	35.977	24.935	17.186	11.691	8.218	7.505
87.5	98.856	78.480	59.178	41.009	24.947	12.261	7.126	4.234	4.516	4.200
90.0	82.682	63.784	45.935	29.999	17.186	7.126	0.281	1.558	2.093	2.069
92.5	68.113	50.658	34.899	22.038	11.664	4.229	1.558	0.001	0.687	0.893
95.0	55.102	39.690	26.749	16.135	8.174	4.504	2.093	0.692	0.003	0.273
97.5	43.932	31.248	20.480	12.111	7.420	4.177	2.069	0.901	0.282	0.004
100.0	35.461	24.627	15.783	10.260	6.228	3.437	1.798	0.838	0.300	0.056
102.5	28.491	19.337	12.956	8.207	4.777	2.684	1.395	0.598	0.167	0.034
105.0	22.591	15.421	10.058	6.060	3.535	1.951	0.896	0.283	0.070	0.000
107.5	18.483	11.707	7.246	4.319	2.461	1.185	0.398	0.108	0.000	0.000
110.0	19.140	9.143	4.993	2.931	1.454	0.503	0.145	0.000	0.000	0.000
112.5	19.646	10.823	4.218	1.687	0.585	0.177	0.000	0.000	0.000	0.000
115.0	19.897	12.363	6.305	1.622	0.201	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	20.011	13.200	7.741	3.998	1.060	0.000	0.000	0.000	0.000	0.000
120.0	19.631	13.465	8.898	5.384	2.812	1.020	0.000	0.000	0.000	0.000
122.5	18.824	13.601	9.488	6.305	3.879	2.111	0.880	0.106	0.000	0.000
125.0	17.844	13.272	9.479	6.597	4.342	2.636	1.445	0.661	0.179	0.000
127.5	16.624	12.430	9.096	6.440	4.310	2.753	1.592	0.833	0.352	0.088
130.0	15.002	11.288	8.341	5.921	3.982	2.512	1.486	0.763	0.268	0.089
132.5	13.177	9.969	7.231	5.078	3.366	2.105	1.170	0.459	0.183	0.033
135.0	11.243	8.364	5.980	4.113	2.650	1.545	0.637	0.284	0.054	0.013
137.5	9.186	6.622	4.707	3.079	1.864	0.812	0.380	0.076	0.024	0.000
140.0	8.455	5.520	3.421	2.065	0.938	0.456	0.097	0.035	0.000	0.000
142.5	8.039	5.409	3.214	1.401	0.499	0.114	0.044	0.000	0.000	0.000
145.0	7.503	5.170	3.324	1.992	0.997	0.439	0.070	0.000	0.000	0.000
147.5	6.732	4.986	3.469	2.348	1.551	0.941	0.531	0.250	0.100	0.021
150.0	6.314	4.664	3.517	2.531	1.746	1.140	0.663	0.370	0.138	0.062
152.5	5.663	4.439	3.313	2.430	1.679	1.052	0.643	0.281	0.143	0.039
155.0	5.045	3.871	2.936	2.065	1.381	0.884	0.424	0.230	0.089	0.000
157.5	4.194	3.205	2.264	1.612	1.055	0.527	0.313	0.144	0.000	0.000
160.0	3.178	2.317	1.707	1.118	0.579	0.377	0.190	0.010	0.000	0.000
162.5	2.301	1.657	1.032	0.607	0.409	0.215	0.025	0.000	0.000	0.000
165.0	1.675	1.125	0.832	0.572	0.325	0.090	0.050	0.030	0.014	0.000
167.5	1.243	0.958	0.681	0.413	0.195	0.147	0.102	0.061	0.020	0.000
170.0	0.898	0.631	0.367	0.284	0.224	0.166	0.110	0.055	0.000	0.000
172.5	0.450	0.388	0.326	0.265	0.205	0.146	0.087	0.029	0.000	0.000
175.0	0.353	0.303	0.252	0.201	0.151	0.101	0.050	0.000	0.000	0.000
177.5	0.200	0.169	0.139	0.108	0.077	0.046	0.015	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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	788.519	787.316	786.137	784.986	783.863	782.772	781.714	780.691	779.705	778.758
5.0	776.030	773.640	771.304	769.026	766.810	764.660	762.581	760.575	758.650	756.806
7.5	762.271	758.718	755.252	751.896	748.647	745.500	742.460	739.532	736.719	734.027
10.0	747.794	742.649	738.143	733.764	729.452	725.412	721.452	717.676	714.072	710.623
12.5	731.232	725.548	720.018	714.652	709.532	704.518	699.859	695.292	690.914	687.292
15.0	714.123	707.426	701.067	694.910	688.950	683.194	677.701	672.494	667.503	662.733
17.5	695.965	688.692	681.466	674.461	667.823	661.444	655.300	649.397	643.805	638.485
20.0	672.364	664.662	657.629	650.977	644.738	638.944	632.602	626.174	620.005	613.882
22.5	647.442	639.135	631.285	623.926	617.178	610.921	605.162	599.419	594.079	587.889
25.0	621.338	612.212	603.728	595.815	588.452	581.156	574.335	568.056	562.461	557.449
27.5	593.876	584.119	574.959	566.106	557.642	549.763	542.668	536.196	530.310	524.986
30.0	565.188	556.040	544.412	534.780	525.948	517.861	510.400	503.543	497.319	491.908
32.5	535.001	523.485	512.675	502.834	493.654	485.126	477.264	470.076	463.479	457.509
35.0	503.370	491.450	480.430	470.104	460.469	451.549	443.383	435.873	428.739	423.211
37.5	471.017	458.780	447.267	436.489	426.561	417.424	409.066	401.716	394.968	389.198
40.0	437.768	425.186	413.228	402.373	392.233	383.303	375.106	367.879	361.482	355.759
42.5	403.402	390.667	378.960	368.045	358.384	349.470	341.765	334.613	328.704	323.311
45.0	368.766	356.118	344.645	334.210	324.962	316.505	309.091	302.509	296.678	291.621
47.5	334.104	321.960	310.641	300.942	292.872	284.390	278.193	271.048	265.358	260.808
50.0	300.025	288.077	277.639	268.224	260.005	252.699	246.182	240.438	235.092	231.102
52.5	266.241	255.053	245.235	236.355	228.774	222.152	216.118	210.886	206.693	203.206
55.0	233.141	222.918	213.160	205.613	198.519	192.514	187.402	182.985	179.237	175.745
57.5	201.224	191.546	183.158	176.057	169.720	164.772	160.176	156.502	153.048	150.164
60.0	170.128	161.349	154.279	147.919	142.920	138.513	134.712	131.582	128.614	125.998
62.5	140.115	133.108	126.882	121.770	117.630	114.107	111.110	108.408	106.016	103.624

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CANDELA TABULATION - (Cont.)

65.0	112.460	106.394	101.236	97.431	94.049	91.515	89.375	87.210	85.479	83.059
67.5	86.366	81.899	77.816	74.953	72.680	71.254	69.699	68.491	67.109	65.497
70.0	67.333	58.689	56.408	55.079	53.896	53.186	52.493	51.980	50.981	50.134
72.5	51.551	43.352	37.223	37.162	37.381	37.414	37.794	37.825	37.602	37.203
75.0	37.586	30.877	25.491	22.137	23.192	24.377	25.540	26.161	26.719	26.649
77.5	25.824	20.838	17.216	13.570	11.565	13.944	15.719	17.118	18.048	18.480
80.0	16.459	13.777	10.965	8.095	6.095	5.851	8.109	10.141	11.405	12.336
82.5	10.570	8.583	6.428	4.836	3.372	2.057	2.767	5.017	6.659	7.880
85.0	6.348	4.909	3.732	2.640	1.612	0.790	0.292	1.539	3.459	4.648
87.5	3.468	2.734	1.991	1.231	0.565	0.206	0.000	0.000	1.241	2.377
90.0	1.798	1.395	0.896	0.396	0.145	0.000	0.000	0.000	0.000	0.880
92.5	0.828	0.587	0.267	0.099	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.290	0.155	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.050	0.031	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	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.013	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.005	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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	777.851	776.986	776.164	775.388	774.534	773.974	773.340	772.755	772.222	771.739
5.0	755.043	753.365	751.775	750.142	748.866	747.552	746.335	745.215	744.196	743.277
7.5	731.460	729.020	727.647	724.559	722.535	720.649	718.903	717.299	715.840	714.527
10.0	707.335	704.212	701.258	698.477	695.872	693.485	691.286	689.269	687.435	685.789

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CANDELA TABULATION - (Cont.)

12.5	682.836	679.132	675.629	672.333	669.248	666.377	664.113	661.300	659.093	657.108
15.0	658.192	653.897	649.866	646.067	642.506	639.187	636.113	633.289	630.602	628.179
17.5	633.412	628.591	624.027	619.465	615.189	611.219	607.561	604.217	601.190	598.517
20.0	607.903	602.171	596.768	591.701	587.044	582.733	578.759	575.126	571.838	569.880
22.5	581.297	575.163	569.380	563.954	558.889	554.126	549.725	545.691	542.031	538.748
25.0	552.977	548.054	541.765	535.850	530.315	525.113	520.131	515.554	511.387	507.637
27.5	519.793	516.101	512.426	507.141	500.951	495.181	489.847	484.960	480.520	476.533
30.0	486.598	482.056	478.114	474.792	471.322	465.196	459.903	454.515	449.955	445.868
32.5	452.223	447.641	443.635	439.768	437.637	435.545	429.755	424.567	419.937	415.728
35.0	417.869	413.367	409.538	406.267	403.776	401.935	400.630	396.237	390.571	386.305
37.5	384.101	379.623	376.096	373.100	370.692	369.058	367.952	366.764	361.830	357.381
40.0	351.043	346.854	343.423	340.657	338.418	336.870	335.366	335.363	333.531	328.904
42.5	318.738	314.822	311.476	308.943	306.872	305.358	304.456	303.982	304.293	300.854
45.0	287.161	283.603	280.482	278.096	276.217	274.731	273.820	273.290	273.155	273.121
47.5	256.682	253.400	250.619	248.282	246.489	245.015	244.082	243.618	243.501	243.849
50.0	227.518	224.370	221.802	219.493	217.863	216.529	215.552	215.071	214.903	215.082
52.5	199.511	196.503	194.197	192.131	190.472	188.791	188.127	187.492	187.074	186.902
55.0	172.768	170.135	167.857	165.913	164.214	162.922	161.742	160.701	160.194	159.675
57.5	147.344	144.929	142.694	140.958	139.237	137.896	136.592	135.486	134.675	133.916
60.0	123.167	121.109	119.085	117.442	115.779	114.369	113.084	111.797	111.117	110.413
62.5	101.264	98.889	97.153	95.577	94.136	92.727	91.723	90.559	90.083	89.640
65.0	81.432	79.037	77.118	75.668	74.672	73.383	72.923	72.206	71.859	71.722
67.5	63.880	61.761	59.729	58.134	57.713	57.070	56.858	56.622	56.346	56.302
70.0	48.767	47.190	45.418	43.521	43.397	43.409	43.332	43.305	43.028	43.138
72.5	36.220	35.249	33.818	32.610	31.538	31.861	31.868	32.128	32.007	32.162
75.0	26.258	25.755	24.759	23.838	22.295	22.324	22.557	22.950	23.034	23.189
77.5	18.648	18.377	17.786	16.900	15.763	14.631	15.110	15.509	15.777	15.990
80.0	12.805	12.696	12.351	11.577	10.680	9.517	9.099	9.585	10.110	10.370
82.5	8.415	8.494	8.217	7.543	6.763	5.668	4.783	5.124	5.667	5.860
85.0	5.220	5.384	5.121	4.576	3.913	3.116	2.303	1.738	2.545	3.051
87.5	2.973	3.126	2.892	2.542	1.972	1.306	0.728	0.332	0.813	1.438
90.0	1.445	1.592	1.486	1.170	0.637	0.380	0.097	0.044	0.070	0.531
92.5	0.513	0.673	0.593	0.353	0.160	0.051	0.004	0.000	0.000	0.111
95.0	0.038	0.186	0.154	0.043	0.022	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.015	0.015	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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	771.309	770.932	770.608	770.339	770.124	769.963	769.858	769.807	769.811	769.870
5.0	742.461	741.749	741.141	740.639	740.242	739.951	739.767	739.690	739.719	739.854
7.5	713.363	712.348	711.484	710.772	710.213	709.808	709.462	709.457	709.513	709.722
10.0	684.331	683.063	681.986	681.103	680.414	679.919	679.620	679.516	679.608	679.895
12.5	655.332	653.811	652.505	651.429	650.585	649.975	649.599	649.459	649.555	649.886
15.0	626.037	624.178	622.604	621.316	620.313	619.597	619.167	619.022	619.162	619.585
17.5	596.035	594.120	592.397	590.994	589.912	589.150	588.710	588.590	588.791	589.310
20.0	566.223	563.914	561.959	560.360	559.067	558.236	557.714	557.553	557.754	558.317
22.5	535.742	533.062	530.779	528.897	527.418	526.345	525.679	525.423	525.576	526.140
25.0	504.805	501.440	499.001	496.998	495.435	494.312	493.632	493.394	493.600	494.249
27.5	473.004	470.013	467.519	465.485	463.913	462.805	462.163	461.987	462.278	463.035
30.0	442.258	439.159	436.608	434.521	432.905	431.764	431.101	430.922	431.228	432.022
32.5	412.073	408.854	406.211	404.045	402.356	401.150	400.434	400.216	400.499	401.289
35.0	382.503	379.174	376.363	374.055	372.238	370.919	370.107	369.809	370.034	370.787
37.5	353.397	349.892	346.904	344.462	342.525	341.101	340.200	339.832	340.003	340.722
40.0	324.750	320.977	318.444	315.292	313.174	311.580	310.523	310.013	310.063	310.681
42.5	296.480	292.590	289.200	286.434	284.189	282.463	281.271	280.628	280.549	281.047
45.0	268.809	264.798	261.122	258.301	255.868	253.946	252.554	251.711	251.436	251.749
47.5	241.960	237.632	234.033	230.798	228.105	225.954	224.362	223.347	222.924	223.108
50.0	215.619	211.173	207.152	203.666	200.772	198.436	196.676	195.508	194.949	195.014
52.5	187.102	184.925	180.683	177.384	174.055	171.699	169.933	168.720	168.226	168.308
55.0	159.541	159.348	155.079	151.368	148.593	146.400	144.763	143.697	143.218	143.339
57.5	133.536	133.611	131.106	127.623	125.039	123.023	121.562	120.572	120.111	120.201
60.0	109.923	110.092	109.352	106.178	103.784	102.049	100.736	99.869	99.472	99.570
62.5	89.242	89.455	89.767	87.310	85.092	83.535	82.363	81.600	81.268	81.387
65.0	71.441	71.594	71.829	70.612	68.573	67.244	66.265	65.654	65.433	65.619
67.5	56.069	56.101	56.295	55.994	54.566	53.147	52.389	51.882	51.791	52.038
70.0	43.003	42.948	43.164	43.310	41.995	41.225	40.668	40.344	40.277	40.494
72.5	32.155	32.078	32.379	32.609	32.043	31.360	30.896	30.614	30.538	30.697
75.0	23.341	23.349	23.670	23.911	23.795	23.112	22.674	22.423	22.376	22.550
77.5	16.304	16.394	16.556	16.627	16.594	16.073	15.802	15.657	15.657	15.826
80.0	10.626	10.628	10.743	10.848	10.785	10.511	10.352	10.280	10.314	10.477
82.5	6.311	6.484	6.524	6.604	6.454	6.197	6.073	6.011	6.008	6.147
85.0	3.479	3.693	3.649	3.518	3.190	2.777	2.795	2.809	2.840	2.914
87.5	1.740	1.797	1.600	1.409	1.100	0.684	0.784	0.858	0.853	0.812
90.0	0.663	0.643	0.424	0.313	0.190	0.025	0.050	0.100	0.110	0.087
92.5	0.136	0.126	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.010	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	0.003	0.000	0.039	0.034
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.051	0.089	0.135	0.140
135.0	0.000	0.000	0.000	0.000	0.000	0.006	0.082	0.125	0.140	0.140
137.5	0.000	0.000	0.000	0.000	0.000	0.002	0.017	0.064	0.134	0.103
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.019	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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	769.984	770.153	770.375	770.153	769.984	769.870	769.811	769.807	769.858	769.963
5.0	740.095	740.441	740.891	740.441	740.095	739.854	739.719	739.690	739.767	739.951
7.5	710.085	710.600	711.266	710.600	710.085	709.722	709.513	709.457	709.556	709.808
10.0	680.377	681.054	681.923	681.054	680.377	679.895	679.608	679.516	679.620	679.919
12.5	650.455	651.259	652.298	651.259	650.455	649.886	649.660	649.459	649.599	649.975
15.0	620.289	621.273	622.534	621.273	620.289	619.585	619.162	619.022	619.167	619.597
17.5	590.148	591.302	592.769	591.302	590.148	589.385	588.791	588.590	588.816	589.150
20.0	559.239	560.522	562.162	560.522	559.239	558.317	557.754	557.553	557.714	558.236
22.5	527.115	528.498	530.291	528.498	527.115	526.140	525.576	525.423	525.679	526.345
25.0	495.339	496.871	498.841	496.871	495.339	494.249	493.600	493.394	493.632	494.312
27.5	464.100	465.945	468.094	465.945	464.258	463.035	462.278	461.987	462.163	462.805
30.0	433.305	435.080	437.346	435.080	433.474	432.022	431.228	430.922	431.101	431.764
32.5	402.590	404.406	406.739	404.406	402.590	401.289	400.499	400.216	400.434	401.150
35.0	372.074	373.901	376.272	373.901	372.074	370.787	370.034	369.809	370.107	370.919
37.5	341.995	343.828	346.226	343.828	341.995	340.722	340.003	339.832	340.200	341.101
40.0	311.878	313.662	316.040	313.662	311.878	310.681	310.063	310.013	310.523	311.580
42.5	282.137	283.829	286.135	283.829	282.137	281.148	280.549	280.628	281.412	282.463
45.0	252.664	254.199	256.370	254.199	252.664	251.749	251.436	251.711	252.554	253.946

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

47.5	223.915	225.358	227.448	225.358	223.915	223.108	222.924	223.347	224.362	225.954
50.0	195.717	197.070	199.087	197.070	195.717	195.014	194.949	195.508	196.676	198.436
52.5	169.027	170.392	172.411	170.392	169.027	168.308	168.226	168.771	169.933	171.699
55.0	144.072	145.430	147.420	145.430	144.072	143.339	143.218	143.697	144.763	146.400
57.5	120.862	122.113	123.973	122.113	120.862	120.201	120.111	120.572	121.562	123.058
60.0	100.185	101.340	103.054	101.340	100.185	99.570	99.472	99.869	100.736	102.049
62.5	81.979	83.065	84.661	83.065	81.979	81.387	81.268	81.600	82.363	83.535
65.0	66.231	67.219	68.796	67.284	66.231	65.619	65.433	65.654	66.265	67.244
67.5	52.646	53.639	55.037	53.640	52.650	52.050	51.820	51.940	52.389	53.147
70.0	41.022	41.883	43.103	41.933	41.022	40.494	40.277	40.344	40.668	41.225
72.5	31.119	31.829	32.854	31.829	31.119	30.697	30.538	30.614	30.896	31.360
75.0	22.964	23.632	24.570	23.632	22.964	22.550	22.376	22.423	22.674	23.112
77.5	16.183	16.751	17.550	16.751	16.183	15.826	15.657	15.657	15.802	16.073
80.0	10.787	11.266	11.934	11.266	10.787	10.477	10.314	10.280	10.352	10.511
82.5	6.385	6.764	7.301	6.764	6.385	6.147	6.029	6.011	6.073	6.197
85.0	3.056	3.293	3.650	3.293	3.056	2.914	2.840	2.809	2.795	2.777
87.5	0.770	0.767	0.842	0.767	0.770	0.812	0.853	0.858	0.792	0.684
90.0	0.050	0.015	0.000	0.015	0.050	0.087	0.110	0.102	0.050	0.025
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	0.034	0.039	0.000	0.003	0.000
132.5	0.075	0.000	0.000	0.000	0.075	0.140	0.135	0.089	0.051	0.000
135.0	0.140	0.099	0.000	0.099	0.140	0.140	0.140	0.125	0.082	0.006
137.5	0.046	0.000	0.000	0.000	0.046	0.103	0.134	0.064	0.017	0.002
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.019	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 : MCNL48MFA35.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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	770.124	770.339	770.608	770.932	771.309	771.739	772.222	772.755	773.340	773.974
5.0	740.242	740.653	741.141	741.749	742.461	743.277	744.196	745.215	746.335	747.552
7.5	710.213	710.772	711.484	712.348	713.363	714.527	715.840	717.299	718.903	720.649
10.0	680.414	681.103	681.986	683.063	684.331	685.789	687.435	689.423	691.286	693.485
12.5	650.714	651.429	652.505	653.811	655.346	657.108	659.093	661.300	664.113	666.377
15.0	620.313	621.316	622.604	624.178	626.037	628.179	630.602	633.289	636.113	639.187
17.5	589.912	591.047	592.397	594.120	596.160	598.517	601.190	604.217	607.561	611.219
20.0	559.118	560.360	561.959	563.914	566.223	569.880	571.838	575.126	578.759	582.733
22.5	527.418	528.897	530.779	533.062	535.742	538.748	542.031	545.738	549.725	554.126
25.0	495.435	497.004	499.001	501.440	504.805	507.637	511.387	515.554	520.131	525.113
27.5	463.913	465.485	467.519	470.013	473.004	476.533	480.520	485.149	489.847	495.181
30.0	432.905	434.521	436.608	439.159	442.258	445.868	449.955	454.515	459.911	465.196
32.5	402.356	404.045	406.211	408.854	412.073	415.769	419.937	424.603	429.755	435.551
35.0	372.238	374.055	376.363	379.174	382.503	386.305	390.571	396.237	400.651	401.935
37.5	342.525	344.462	346.904	349.892	353.397	357.381	361.830	366.764	367.952	369.549
40.0	313.174	315.292	318.444	321.084	324.750	328.904	333.531	335.363	335.870	336.869
42.5	284.189	286.488	289.200	292.590	296.480	300.854	304.293	303.982	304.456	305.820
45.0	255.868	258.301	261.266	264.798	268.809	273.282	273.155	273.290	273.820	274.731
47.5	228.105	230.798	234.033	237.769	241.960	243.849	243.747	243.618	244.082	245.108
50.0	200.772	203.665	207.152	211.173	215.723	215.082	214.903	215.071	215.552	216.529
52.5	174.055	177.384	180.683	184.925	187.102	186.902	187.074	187.492	188.128	189.180
55.0	148.593	151.368	155.079	159.348	159.541	159.675	160.194	160.867	161.742	162.922
57.5	125.039	127.623	131.106	133.611	133.536	133.916	134.675	135.486	136.592	137.896
60.0	103.784	106.178	109.352	110.092	109.923	110.413	111.117	111.797	113.084	114.369
62.5	85.092	87.310	89.767	89.455	89.242	89.640	90.083	90.559	91.723	92.727
65.0	68.573	70.612	71.829	71.594	71.441	71.722	71.859	72.206	72.923	73.383
67.5	54.566	55.994	56.295	56.101	56.069	56.302	56.346	56.622	56.858	57.070
70.0	41.995	43.310	43.164	43.049	43.003	43.138	43.028	43.305	43.332	43.409
72.5	32.043	32.609	32.379	32.078	32.155	32.162	32.007	32.128	31.968	31.861
75.0	23.795	23.911	23.670	23.349	23.341	23.189	23.034	22.950	22.557	22.324
77.5	16.594	16.627	16.556	16.394	16.304	15.990	15.777	15.509	15.110	14.631
80.0	10.786	10.848	10.743	10.628	10.626	10.370	10.110	9.585	9.099	9.517
82.5	6.454	6.604	6.552	6.484	6.311	5.860	5.667	5.124	4.783	5.668
85.0	3.190	3.518	3.649	3.693	3.479	3.051	2.545	1.738	2.303	3.116
87.5	1.100	1.409	1.600	1.807	1.740	1.438	0.813	0.332	0.728	1.306
90.0	0.190	0.313	0.424	0.643	0.663	0.531	0.070	0.044	0.097	0.380
92.5	0.000	0.000	0.045	0.126	0.136	0.111	0.000	0.000	0.004	0.051
95.0	0.000	0.000	0.000	0.000	0.010	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
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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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	774.657	775.440	776.164	776.986	777.851	778.758	779.705	780.691	781.714	782.772
5.0	748.866	750.274	751.775	753.365	755.043	756.806	758.650	760.575	762.581	764.660
7.5	722.535	724.559	727.662	729.020	731.460	734.027	736.719	739.532	742.460	745.500
10.0	695.872	698.477	701.258	704.212	707.335	710.623	714.072	717.676	721.452	725.412
12.5	669.248	672.333	675.629	679.132	682.836	687.292	690.914	695.292	699.859	704.607
15.0	642.506	646.067	649.866	653.897	658.299	662.733	667.503	672.494	677.701	683.194
17.5	615.189	619.465	624.027	628.591	633.412	638.485	643.805	649.397	655.300	661.444
20.0	587.044	591.701	596.768	602.171	607.903	613.960	620.005	626.174	632.602	638.944
22.5	558.889	563.954	569.380	575.163	581.297	587.889	594.079	599.419	605.162	611.087
25.0	530.315	535.849	541.765	548.054	552.977	557.449	562.461	568.056	574.335	581.156
27.5	500.951	507.141	512.426	516.101	520.246	524.986	530.310	536.196	542.668	549.763
30.0	471.322	474.792	478.115	482.056	486.598	491.908	497.319	503.543	510.400	517.861
32.5	437.637	440.257	443.635	447.641	452.223	457.509	463.479	470.076	477.264	485.126
35.0	404.292	406.267	409.538	413.367	418.188	423.211	429.147	435.873	443.383	451.549
37.5	370.692	373.100	376.096	379.623	384.101	389.198	394.968	401.716	409.066	417.424
40.0	338.418	340.657	343.423	346.854	351.043	355.759	361.482	367.879	375.106	383.303
42.5	306.872	308.943	311.476	314.822	318.738	323.311	329.158	334.613	341.765	349.470
45.0	276.217	278.096	280.482	283.603	287.161	291.621	296.678	302.509	309.092	316.505
47.5	246.489	248.282	250.619	253.400	256.682	260.808	265.358	271.048	278.193	284.390
50.0	217.863	219.493	221.802	224.370	227.518	231.102	235.381	240.438	246.182	252.699
52.5	190.472	192.131	194.364	196.503	199.511	203.545	206.693	210.886	216.118	222.152
55.0	164.214	165.913	167.857	170.135	172.768	175.745	179.237	182.985	187.403	192.514
57.5	139.237	140.958	142.694	144.929	147.344	150.164	153.048	156.502	160.176	164.772
60.0	115.779	117.442	119.085	121.110	123.167	125.998	128.614	131.582	134.712	138.514
62.5	94.136	95.577	97.153	98.889	101.264	103.624	106.016	108.408	111.110	114.107
65.0	74.672	75.668	77.118	79.037	81.432	83.360	85.480	87.210	89.375	91.515
67.5	57.713	58.134	59.729	61.761	63.880	65.497	67.109	68.784	69.699	71.254
70.0	43.397	43.684	45.418	47.190	48.767	50.134	50.981	51.980	52.493	53.186
72.5	31.538	32.610	33.818	35.249	36.223	37.203	37.602	37.825	38.040	37.414
75.0	22.295	23.838	24.833	25.755	26.258	26.649	26.719	26.161	25.540	24.377
77.5	15.763	16.900	17.786	18.377	18.648	18.533	18.048	17.118	15.719	13.944

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

80.0	10.680	11.577	12.351	12.714	12.805	12.336	11.405	10.141	8.216	5.851
82.5	6.767	7.543	8.217	8.494	8.415	7.880	6.659	5.017	2.767	2.057
85.0	3.913	4.576	5.121	5.384	5.220	4.648	3.459	1.539	0.292	0.790
87.5	1.972	2.542	2.892	3.126	2.973	2.377	1.241	0.000	0.000	0.206
90.0	0.637	1.170	1.486	1.592	1.445	0.880	0.000	0.000	0.000	0.000
92.5	0.160	0.353	0.593	0.673	0.513	0.000	0.000	0.000	0.000	0.000
95.0	0.022	0.043	0.154	0.192	0.038	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.007	0.015	0.015	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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	783.863	784.986	786.137	787.316	788.519	789.745	790.991	792.255	794.184	794.824
5.0	766.810	769.026	771.304	773.640	776.030	778.470	780.956	783.482	786.044	788.639
7.5	748.647	751.896	755.252	758.756	762.271	765.904	769.613	773.389	777.226	781.118
10.0	729.518	733.764	738.143	742.649	747.794	752.066	756.972	761.978	767.074	772.251
12.5	709.532	714.652	720.018	725.548	731.232	737.064	743.056	749.260	755.588	762.111
15.0	688.950	694.910	701.067	707.426	714.123	721.001	728.053	735.810	742.782	750.454
17.5	667.823	674.461	681.466	688.692	695.965	703.100	710.669	718.525	727.849	735.194
20.0	644.738	650.977	657.629	664.742	672.364	680.358	688.724	697.671	706.949	717.397
22.5	617.178	623.926	631.285	639.135	647.442	656.317	665.647	676.664	685.741	696.502
25.0	588.452	595.815	603.728	612.212	621.338	630.975	641.166	651.896	663.076	674.923

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

27.5	557.642	566.106	574.959	584.119	593.876	604.322	615.553	626.968	639.155	653.231
30.0	525.948	534.780	544.412	556.040	565.188	576.322	588.154	600.656	613.760	627.454
32.5	493.654	502.834	512.675	523.485	535.001	547.008	559.586	572.887	586.910	601.566
35.0	460.469	470.104	480.430	491.519	503.370	516.191	529.643	543.721	558.556	573.747
37.5	426.561	436.798	447.267	458.780	471.017	484.096	498.111	512.526	527.523	543.162
40.0	392.232	402.373	413.228	425.186	437.768	450.912	464.781	479.751	495.354	511.574
42.5	358.384	368.045	378.960	390.666	403.402	416.892	431.593	446.118	462.239	479.007
45.0	324.962	334.210	344.645	356.118	368.766	382.365	396.852	412.182	428.263	445.508
47.5	292.872	300.942	310.641	321.960	334.104	347.674	362.133	377.587	393.959	411.145
50.0	260.005	268.224	277.639	288.077	300.025	312.875	327.335	342.642	359.023	376.408
52.5	228.774	236.355	245.235	255.053	266.241	278.796	293.401	307.679	323.814	341.068
55.0	198.519	205.613	213.558	222.918	233.141	245.047	258.215	272.622	288.621	305.943
57.5	169.720	176.057	183.158	191.546	201.224	211.850	224.431	238.209	253.347	270.063
60.0	142.920	147.919	154.279	161.349	170.128	180.091	191.537	204.317	219.894	241.766
62.5	117.630	121.770	126.882	133.108	140.115	149.737	159.445	175.206	194.164	215.351
65.0	94.049	97.431	101.235	106.394	112.460	120.203	133.300	150.553	169.035	189.579
67.5	72.680	74.953	77.816	81.899	86.366	97.578	111.915	128.263	145.682	165.589
70.0	53.896	55.079	56.408	58.689	67.333	79.114	92.293	107.147	123.603	141.148
72.5	37.381	37.162	37.223	43.352	51.551	61.631	73.752	87.353	102.674	119.207
75.0	23.192	22.137	25.491	30.877	37.716	45.838	56.205	68.752	82.682	98.414
77.5	11.565	13.570	17.216	20.838	25.824	32.342	40.383	50.994	63.784	78.192
80.0	6.095	8.095	10.965	13.777	16.459	20.987	27.170	35.125	45.935	59.034
82.5	3.372	4.836	6.428	8.583	10.570	12.274	16.295	22.137	29.999	40.960
85.0	1.612	2.640	3.732	4.943	6.348	7.505	8.218	11.691	17.186	24.935
87.5	0.565	1.231	1.993	2.734	3.468	4.200	4.516	4.234	7.126	12.263
90.0	0.145	0.398	0.896	1.395	1.798	2.069	2.093	1.558	0.281	7.126
92.5	0.000	0.099	0.267	0.587	0.828	0.893	0.687	0.000	1.558	4.229
95.0	0.000	0.000	0.063	0.155	0.290	0.273	0.000	0.692	2.093	4.504
97.5	0.000	0.000	0.000	0.031	0.050	0.000	0.282	0.901	2.069	4.177
100.0	0.000	0.000	0.000	0.000	0.001	0.056	0.300	0.838	1.798	3.437
102.5	0.000	0.000	0.000	0.000	0.000	0.034	0.167	0.598	1.395	2.684
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.283	0.896	1.941
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.108	0.396	1.185
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.145	0.503
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.177
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	1.020
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.106	0.880	2.111
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.179	0.642	1.445	2.636
127.5	0.000	0.000	0.000	0.000	0.010	0.088	0.352	0.833	1.592	2.753
130.0	0.000	0.000	0.000	0.001	0.013	0.089	0.268	0.763	1.486	2.512
132.5	0.000	0.000	0.000	0.000	0.005	0.033	0.183	0.459	1.170	2.105
135.0	0.000	0.000	0.000	0.000	0.000	0.013	0.054	0.284	0.637	1.545
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.076	0.380	0.812
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.097	0.456
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.114
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.439
147.5	0.000	0.000	0.000	0.000	0.000	0.021	0.100	0.250	0.531	0.941
150.0	0.000	0.000	0.000	0.000	0.006	0.062	0.138	0.364	0.663	1.140
152.5	0.000	0.000	0.000	0.000	0.000	0.039	0.143	0.281	0.643	1.052
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.089	0.230	0.424	0.884
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.144	0.313	0.527
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.190	0.377
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.215
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.030	0.050	0.090

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.060	0.100	0.147
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.110	0.166
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.029	0.087	0.146
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.101
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.046
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>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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	796.120	797.424	798.734	800.046	801.359	802.669	803.975	805.273	806.561	807.837
5.0	791.240	793.864	796.504	799.154	801.810	804.466	807.116	809.755	812.378	814.978
7.5	785.042	788.992	792.973	796.978	800.998	805.025	809.051	813.994	817.142	821.210
10.0	777.541	782.772	788.095	793.460	798.855	804.271	809.730	815.312	820.876	826.409
12.5	768.570	775.176	781.831	788.550	795.322	803.094	809.166	816.329	823.307	830.348
15.0	758.261	766.402	774.156	782.214	790.349	798.579	807.139	815.726	824.320	832.920
17.5	743.991	753.008	762.205	771.675	781.088	790.794	800.897	811.099	821.380	831.787
20.0	726.552	736.840	748.081	758.157	769.151	780.440	791.927	803.658	815.512	827.569
22.5	707.627	719.148	730.970	743.105	755.552	768.355	781.262	794.498	807.915	821.595
25.0	687.225	699.922	712.982	726.376	740.224	754.393	768.845	783.545	798.469	813.746
27.5	665.352	679.137	693.409	708.037	723.116	738.718	754.852	770.748	788.218	803.924
30.0	641.690	656.718	672.238	688.057	704.273	721.173	738.548	756.071	773.823	792.052
32.5	616.806	632.675	649.324	666.003	682.994	700.647	719.156	738.075	757.243	776.954
35.0	589.330	605.482	622.369	640.086	658.359	677.220	696.946	717.386	738.150	759.402
37.5	559.455	576.766	593.949	612.447	632.156	651.830	672.614	694.383	716.701	739.480
40.0	528.454	545.999	564.267	583.252	603.415	624.384	646.326	669.144	692.821	717.045
42.5	496.428	514.525	533.286	552.920	573.363	595.160	617.909	641.717	666.514	692.060
45.0	463.412	481.998	501.273	521.840	542.214	564.616	587.535	612.183	637.873	664.520
47.5	429.473	448.476	468.178	488.578	509.719	532.005	555.616	581.252	610.842	641.002
50.0	394.672	414.032	434.084	454.838	476.292	501.010	528.318	556.992	586.573	617.162
52.5	359.437	378.734	399.058	422.637	448.724	475.369	502.905	531.306	561.042	591.778
55.0	323.616	344.369	369.589	395.464	421.877	448.796	476.316	504.885	534.366	564.878
57.5	292.313	316.561	341.841	367.692	394.156	421.287	448.962	478.010	506.717	537.095
60.0	264.986	288.955	313.742	339.581	365.968	392.911	420.666	449.008	478.038	508.149
62.5	239.056	261.424	285.905	311.246	337.410	364.227	391.605	419.802	448.703	478.351
65.0	211.219	234.115	258.095	282.997	308.630	335.142	362.270	389.975	418.472	447.804
67.5	185.328	207.352	230.411	254.841	280.057	305.958	332.585	359.897	388.782	423.487
70.0	160.716	181.277	203.602	226.914	251.495	276.910	302.941	331.760	363.884	396.445
72.5	136.829	155.807	177.291	199.818	223.274	247.890	276.493	307.349	338.743	370.814
75.0	114.963	132.601	151.608	173.227	195.845	223.109	252.537	282.830	313.668	344.949
77.5	94.274	110.759	128.340	147.328	173.164	200.629	228.976	258.343	288.536	319.151
80.0	73.790	90.157	106.488	128.345	152.185	178.582	206.010	234.257	263.444	293.354
82.5	54.333	69.376	90.198	111.044	133.365	157.273	183.537	210.785	238.783	267.667
85.0	35.996	54.360	73.972	94.664	115.640	138.021	161.850	187.882	214.795	242.384
87.5	24.947	41.009	59.178	78.480	98.856	119.870	142.173	165.772	191.470	217.880
90.0	17.186	29.999	45.935	63.784	82.682	102.589	123.603	145.682	169.035	194.164
92.5	11.664	22.038	34.899	50.659	68.093	86.482	106.028	126.709	148.412	171.461
95.0	8.174	16.135	26.749	39.567	55.102	72.028	89.794	108.836	129.056	155.144
97.5	7.420	12.111	20.480	31.248	43.932	59.195	75.519	92.540	114.827	142.714
100.0	6.228	10.260	15.783	24.627	35.461	48.153	62.867	81.138	105.084	131.564
102.5	4.777	8.207	12.956	19.337	28.491	39.315	53.532	74.818	97.425	121.593
105.0	3.535	6.060	10.005	15.421	22.591	33.172	50.114	69.315	90.434	112.731
107.5	2.461	4.319	7.246	11.707	18.483	31.971	47.535	64.703	84.200	105.033
110.0	1.454	2.931	4.993	9.143	19.140	30.970	45.187	61.057	78.586	98.015
112.5	0.585	1.687	4.218	10.823	19.646	30.336	42.877	57.530	73.553	91.419

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CANDELA TABULATION - (Cont.)

115.0	0.201	1.622	6.305	12.363	19.897	29.534	40.754	53.957	68.808	84.960
117.5	1.060	3.858	7.741	13.201	20.011	28.411	38.624	50.205	63.927	78.817
120.0	2.812	5.384	8.898	13.465	19.631	26.999	36.136	46.720	58.828	72.576
122.5	3.879	6.305	9.488	13.601	18.824	25.449	33.248	42.882	53.613	66.123
125.0	4.342	6.597	9.479	13.272	17.743	23.626	30.498	38.775	48.449	59.431
127.5	4.310	6.440	9.096	12.430	16.624	21.582	27.730	34.607	43.235	52.634
130.0	3.982	5.921	8.341	11.288	15.002	19.422	24.754	30.990	38.112	47.353
132.5	3.366	5.078	7.231	9.969	13.177	17.096	21.536	27.146	34.399	42.966
135.0	2.650	4.113	5.980	8.364	11.243	14.586	18.860	24.674	31.384	38.811
137.5	1.855	3.079	4.707	6.622	9.186	12.836	17.445	22.496	28.426	34.706
140.0	0.938	2.065	3.421	5.520	8.455	11.960	15.873	20.492	25.494	31.164
142.5	0.499	1.401	3.214	5.409	8.039	10.989	14.447	18.415	22.711	27.706
145.0	0.997	1.992	3.324	5.160	7.503	10.107	13.137	16.518	20.246	24.368
147.5	1.551	2.348	3.469	4.986	6.732	9.168	11.746	14.698	17.890	21.281
150.0	1.746	2.531	3.517	4.664	6.314	8.091	10.328	12.917	15.784	18.719
152.5	1.670	2.430	3.313	4.439	5.663	7.233	9.064	10.995	13.453	16.087
155.0	1.381	2.065	2.936	3.871	5.045	6.339	7.828	9.504	11.414	13.399
157.5	1.055	1.612	2.264	3.205	4.194	5.265	6.584	7.960	9.392	11.182
160.0	0.579	1.118	1.707	2.314	3.178	4.181	5.219	6.330	7.640	8.942
162.5	0.409	0.607	1.032	1.657	2.301	2.955	3.874	4.851	5.827	6.800
165.0	0.325	0.568	0.832	1.125	1.675	2.274	2.877	3.485	4.205	5.066
167.5	0.195	0.413	0.681	0.958	1.243	1.537	2.015	2.543	3.088	3.625
170.0	0.224	0.284	0.367	0.631	0.898	1.169	1.441	1.724	2.008	2.402
172.5	0.205	0.265	0.326	0.387	0.450	0.614	0.849	1.084	1.319	1.555
175.0	0.151	0.201	0.252	0.303	0.353	0.404	0.455	0.507	0.558	0.617
177.5	0.077	0.108	0.139	0.169	0.200	0.230	0.260	0.289	0.319	0.348
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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	809.097	810.339	811.561	812.761	813.935	815.081	816.316	817.281	818.331	819.344
5.0	817.551	820.097	822.648	825.152	827.605	830.000	832.333	834.598	836.789	838.903
7.5	825.240	829.221	833.145	837.002	840.782	844.477	848.089	851.696	855.295	858.563
10.0	831.898	837.329	842.713	848.121	853.434	858.639	863.722	868.671	873.472	878.099
12.5	837.363	844.426	851.416	858.317	865.110	871.762	878.071	884.214	890.174	895.931
15.0	841.564	850.161	858.688	867.091	875.204	883.173	890.974	898.584	905.842	912.847
17.5	842.241	852.696	863.059	873.254	883.343	893.290	902.511	911.379	920.045	928.906
20.0	839.685	851.823	863.892	875.903	887.771	899.070	910.212	922.003	931.475	941.480
22.5	835.375	849.255	863.185	877.086	890.355	903.446	916.320	928.600	940.632	952.224
25.0	829.171	844.872	860.700	876.262	891.273	907.168	920.570	934.711	948.369	961.414
27.5	820.954	838.468	856.205	873.425	890.279	906.894	923.121	939.099	954.412	970.667
30.0	810.624	829.854	849.480	868.444	887.132	905.489	923.660	941.383	958.761	975.385
32.5	797.219	818.090	839.501	860.445	881.185	901.514	921.759	941.266	960.624	978.795
35.0	781.350	803.828	826.942	849.889	872.621	894.951	917.256	938.477	959.416	979.318
37.5	762.942	787.003	811.688	836.572	861.198	885.559	911.024	932.806	955.385	976.909
40.0	741.923	767.519	793.667	821.777	846.710	873.122	899.172	924.045	948.340	971.320
42.5	718.273	745.443	772.848	800.820	829.035	858.531	886.942	914.392	940.935	965.511
45.0	692.581	722.779	753.371	784.103	814.961	845.535	875.442	904.689	932.280	958.455
47.5	671.545	702.625	734.114	765.958	797.815	829.495	860.886	891.320	920.268	948.117
50.0	648.405	680.140	713.803	744.984	777.762	810.628	842.887	874.412	905.101	934.182
52.5	623.289	655.501	688.252	721.447	754.990	788.495	821.755	854.574	886.092	916.597
55.0	596.581	628.929	661.900	695.512	729.447	763.604	797.929	832.075	865.118	896.868
57.5	568.329	600.682	633.712	667.325	701.866	737.941	773.424	808.203	841.508	873.490
60.0	539.217	571.068	603.761	639.667	675.824	711.764	747.179	781.796	815.494	847.905

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CANDELA TABULATION - (Cont.)

62.5	508.912	541.959	577.259	612.840	648.667	684.243	719.371	753.855	787.347	819.758
65.0	481.331	515.574	550.351	585.384	620.547	655.677	690.384	724.446	757.727	789.850
67.5	455.422	489.142	522.986	557.258	591.777	626.253	660.454	694.029	726.784	760.969
70.0	429.304	462.435	495.649	528.881	562.454	596.202	629.743	662.795	698.009	734.410
72.5	403.168	435.642	468.074	500.656	533.051	565.736	598.449	634.243	671.822	707.831
75.0	376.792	408.755	440.664	472.403	503.989	535.312	570.505	608.550	646.775	681.217
77.5	350.178	381.620	413.021	444.533	475.024	508.772	546.133	583.347	619.589	654.672
80.0	323.605	354.237	385.109	415.796	448.778	485.975	522.585	558.640	594.133	629.044
82.5	297.130	326.844	356.939	388.970	426.361	462.920	499.222	534.508	569.169	602.706
85.0	270.843	299.696	329.682	366.928	403.771	440.096	475.744	510.582	544.588	577.721
87.5	244.898	272.815	308.940	345.923	381.253	416.896	452.089	486.492	520.012	552.663
90.0	219.894	253.347	288.621	323.814	359.023	393.959	428.263	462.239	495.354	527.523
92.5	201.828	234.981	268.876	303.057	337.123	371.326	404.983	438.053	470.502	502.291
95.0	186.113	217.885	249.971	283.020	315.946	349.013	381.882	414.309	446.065	476.729
97.5	172.000	201.977	232.675	263.961	295.680	328.416	359.200	390.626	421.844	451.774
100.0	158.762	187.240	216.587	246.092	276.522	306.776	337.312	367.599	397.691	426.966
102.5	147.226	173.613	201.580	229.835	258.550	287.546	316.559	345.670	374.302	402.741
105.0	136.765	161.666	187.588	214.502	241.436	269.496	297.547	324.783	352.041	379.440
107.5	127.208	150.703	174.741	200.188	225.888	252.381	278.719	304.962	330.970	357.145
110.0	118.456	140.497	163.256	186.869	211.184	236.037	260.988	286.036	310.993	335.848
112.5	110.579	130.846	152.330	174.410	197.390	220.424	244.123	267.787	291.691	315.424
115.0	102.888	121.340	141.838	162.549	184.128	205.849	228.119	250.359	273.128	295.658
117.5	95.215	112.787	131.511	151.086	171.182	191.753	212.725	233.870	255.271	276.550
120.0	87.484	103.838	120.997	139.626	158.569	178.029	197.668	217.676	237.880	258.060
122.5	79.691	94.717	111.041	128.383	146.110	164.487	182.968	201.841	220.757	239.794
125.0	71.841	85.899	101.292	117.328	133.967	151.078	168.459	186.210	203.969	221.700
127.5	64.543	77.235	91.687	106.312	121.866	137.745	154.053	170.275	187.720	204.186
130.0	57.818	69.658	82.325	95.630	109.858	125.055	139.599	155.017	170.612	186.405
132.5	52.130	62.472	73.394	85.461	98.123	111.286	125.208	139.308	153.764	168.423
135.0	46.964	55.892	65.362	76.012	86.951	98.827	111.191	124.128	136.997	150.374
137.5	42.094	49.809	58.313	67.348	76.778	87.264	97.943	109.051	120.833	132.675
140.0	37.406	44.069	51.601	59.374	67.789	76.677	85.743	95.567	105.449	115.938
142.5	32.923	38.890	45.236	51.872	59.314	66.919	74.775	83.277	91.868	100.231
145.0	28.802	33.996	39.254	45.133	51.381	57.768	64.686	71.913	79.208	84.749
147.5	25.298	29.437	33.890	38.907	44.037	49.242	55.350	61.378	66.090	70.955
150.0	21.951	25.291	29.236	33.261	37.359	42.018	46.704	50.635	54.490	58.739
152.5	18.802	21.838	24.909	28.222	31.728	35.152	38.300	41.391	44.720	48.150
155.0	15.802	18.377	21.006	23.614	26.160	28.673	31.151	33.678	36.435	39.123
157.5	13.078	14.904	16.732	18.847	20.923	22.957	24.983	27.142	29.295	31.396
160.0	10.239	11.612	13.212	14.780	16.326	18.016	19.599	21.345	23.042	24.686
162.5	7.902	9.058	10.203	11.335	12.505	13.790	15.113	16.407	17.670	18.899
165.0	5.921	6.768	7.608	8.487	9.462	10.420	11.359	12.279	13.178	14.122
167.5	4.162	4.719	5.437	6.144	6.839	7.523	8.193	8.848	9.500	10.230
170.0	2.850	3.295	3.737	4.174	4.606	5.033	5.522	5.958	6.473	6.973
172.5	1.792	2.028	2.264	2.500	2.766	3.093	3.413	3.725	4.029	4.324
175.0	0.762	0.931	1.099	1.263	1.426	1.580	1.742	1.895	2.044	2.189
177.5	0.376	0.405	0.433	0.460	0.487	0.513	0.537	0.564	0.588	0.612
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	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718	799.718
2.5	820.317	821.251	822.141	822.986	823.786	824.537	825.239	825.890	827.532	827.759
5.0	840.934	842.877	844.729	846.485	848.141	849.693	851.139	852.475	853.697	854.805
7.5	861.807	864.912	867.872	870.679	873.325	875.804	878.109	880.236	882.177	883.929

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CANDELA TABULATION - (Cont.)

10.0	882.373	886.474	890.379	894.077	897.559	900.814	903.834	906.611	909.138	911.409
12.5	901.468	906.764	911.764	916.515	920.999	925.202	929.110	932.710	935.989	938.936
15.0	919.618	926.132	932.366	938.179	943.572	948.635	953.350	957.698	961.696	965.224
17.5	936.345	943.915	951.180	958.112	964.585	970.411	975.833	980.826	985.369	989.443
20.0	951.159	960.056	968.245	976.063	983.471	990.427	996.912	1002.925	1008.432	1013.398
22.5	963.077	973.510	983.442	992.685	1001.371	1009.574	1017.173	1023.996	1030.287	1035.998
25.0	974.067	985.954	997.296	1008.690	1017.682	1026.633	1035.042	1042.653	1049.229	1055.234
27.5	983.521	997.155	1009.805	1021.466	1032.558	1041.888	1050.312	1057.902	1064.691	1071.248
30.0	991.343	1006.293	1020.192	1033.216	1044.663	1055.383	1064.289	1072.183	1079.066	1085.001
32.5	996.614	1012.839	1028.547	1042.491	1055.609	1066.791	1077.710	1085.785	1093.531	1099.965
35.0	998.278	1016.242	1032.927	1048.946	1063.119	1076.628	1087.993	1098.112	1106.448	1113.562
37.5	997.187	1016.791	1034.735	1051.946	1067.816	1082.060	1096.115	1106.643	1117.470	1125.666
40.0	993.051	1014.009	1033.515	1052.056	1069.961	1084.997	1099.003	1111.418	1121.986	1131.802
42.5	989.054	1011.582	1032.304	1051.949	1070.514	1086.757	1101.186	1114.035	1124.384	1133.174
45.0	983.574	1007.183	1029.128	1049.881	1069.213	1086.317	1101.833	1115.742	1127.072	1136.772
47.5	974.531	999.126	1022.491	1044.506	1064.078	1082.024	1098.247	1112.100	1123.421	1132.998
50.0	961.491	987.581	1012.615	1033.856	1054.028	1072.694	1089.121	1103.179	1115.203	1125.296
52.5	945.482	972.174	996.733	1019.587	1040.635	1059.347	1076.477	1093.136	1105.745	1117.991
55.0	926.047	953.469	979.133	1002.143	1023.337	1042.987	1062.468	1079.510	1094.235	1106.402
57.5	904.026	932.078	957.939	981.981	1004.919	1027.037	1047.301	1064.544	1079.618	1091.220
60.0	878.623	907.692	934.376	961.298	986.545	1008.991	1029.288	1047.409	1062.301	1073.832
62.5	850.961	880.877	911.681	939.644	965.112	989.318	1009.129	1027.762	1042.511	1055.092
65.0	822.424	855.980	886.939	915.680	941.491	965.236	986.606	1005.072	1020.784	1034.426
67.5	796.163	829.724	860.770	889.686	916.073	939.905	961.508	980.293	996.821	1010.960
70.0	769.211	802.352	833.912	862.805	889.475	913.385	935.140	954.273	971.224	985.782
72.5	743.624	774.732	805.606	834.981	862.101	886.022	907.892	927.445	944.982	960.076
75.0	715.256	747.389	777.767	806.323	832.979	857.626	879.825	899.746	918.644	933.425
77.5	688.336	720.446	750.514	779.312	803.976	827.982	850.458	871.020	889.529	905.435
80.0	661.790	693.343	723.490	750.501	775.421	798.888	820.993	841.463	860.212	875.792
82.5	635.715	667.059	695.930	722.160	746.974	770.148	791.827	811.981	830.606	845.185
85.0	609.773	640.845	668.426	694.282	718.680	741.666	763.115	782.917	801.268	814.720
87.5	584.330	613.727	640.884	666.501	690.772	713.545	734.882	754.757	772.095	784.988
90.0	558.556	586.910	613.760	639.155	663.076	685.741	706.949	727.849	742.782	755.437
92.5	532.266	560.428	587.146	612.434	636.231	658.686	679.704	699.295	713.738	726.341
95.0	506.132	534.373	561.087	586.257	609.996	632.400	653.375	672.455	685.542	697.579
97.5	480.518	509.070	534.880	560.416	584.180	606.857	627.869	645.219	657.748	669.302
100.0	455.433	482.794	509.011	534.079	558.137	581.070	602.778	618.329	630.294	641.365
102.5	430.600	457.602	483.606	508.508	532.264	554.886	576.378	589.714	601.801	612.861
105.0	406.257	432.636	458.298	483.042	506.651	529.178	548.611	561.261	572.968	583.719
107.5	382.790	408.304	433.178	457.345	480.787	503.298	521.521	532.627	544.055	554.576
110.0	360.328	384.800	408.677	432.056	454.893	476.945	491.041	503.076	514.346	524.713
112.5	338.908	362.205	384.994	407.469	429.450	449.092	461.548	473.316	484.216	494.059
115.0	318.148	340.397	362.184	383.712	404.727	420.868	432.772	444.039	454.481	464.077
117.5	297.994	319.183	340.019	360.634	380.724	393.397	404.701	415.395	425.344	434.521
120.0	278.354	298.428	318.293	337.958	355.213	366.488	377.203	387.301	396.712	405.411
122.5	258.969	277.983	296.853	315.499	329.137	339.809	349.962	359.455	368.419	376.644
125.0	239.824	257.624	275.431	292.604	303.258	314.026	322.991	332.002	340.386	348.122
127.5	220.971	238.196	254.316	267.641	277.568	287.026	296.105	304.614	312.529	319.752
130.0	202.170	217.872	233.449	243.161	252.387	261.206	269.626	277.524	284.871	291.643
132.5	183.083	197.747	209.766	218.733	227.520	235.740	243.520	250.813	257.596	263.840
135.0	163.775	176.942	186.013	194.548	202.530	210.348	217.600	224.362	230.614	236.337
137.5	144.563	154.409	162.690	170.555	178.715	185.164	191.910	198.182	203.963	209.235
140.0	125.379	133.118	140.509	147.468	154.228	160.839	167.008	172.723	177.972	182.743
142.5	106.976	113.656	120.067	126.196	132.169	138.061	143.567	148.675	153.374	157.653
145.0	90.578	96.202	101.608	106.784	112.011	117.122	121.918	126.386	130.512	134.284
147.5	75.885	80.616	85.192	89.771	94.063	98.357	102.391	106.154	109.635	112.821

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CANDELA TABULATION - (Cont.)

150.0	62.837	66.780	70.559	74.274	78.082	81.677	85.051	88.195	91.100	93.758
152.5	51.469	54.669	57.744	60.924	64.064	67.026	69.805	72.394	74.785	76.974
155.0	41.734	44.264	46.739	49.406	51.942	54.340	56.594	58.699	60.650	62.440
157.5	33.440	35.423	37.496	39.583	41.574	43.463	45.246	46.917	48.471	49.902
160.0	26.276	27.854	29.535	31.147	32.686	34.148	35.514	36.821	38.024	39.132
162.5	20.125	21.429	22.690	23.945	25.112	26.215	27.251	28.218	29.114	29.935
165.0	15.056	16.041	16.987	17.892	18.755	19.573	20.344	21.066	21.736	22.353
167.5	10.937	11.619	12.272	12.902	13.500	14.067	14.602	15.104	15.570	15.999
170.0	7.456	7.921	8.368	8.795	9.202	9.587	9.949	10.289	10.604	10.894
172.5	4.610	4.887	5.153	5.408	5.652	5.883	6.101	6.305	6.485	6.671
175.0	2.330	2.467	2.598	2.724	2.845	2.959	3.067	3.168	3.261	3.348
177.5	0.635	0.657	0.678	0.698	0.717	0.735	0.752	0.768	0.809	0.814
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	799.718	799.718	799.718	799.718	799.718
2.5	827.989	828.220	828.453	828.687	828.922
5.0	856.790	857.225	857.663	858.104	858.546
7.5	885.487	887.777	888.420	889.067	889.715
10.0	913.419	915.163	917.186	917.980	918.778
12.5	941.542	943.797	946.434	947.416	948.402
15.0	968.372	971.095	974.360	975.452	976.622
17.5	993.031	996.121	998.702	1001.027	1002.316
20.0	1017.791	1021.583	1024.750	1027.606	1029.132
22.5	1041.084	1045.503	1049.216	1052.582	1054.404
25.0	1060.616	1065.327	1069.323	1072.965	1075.043
27.5	1077.250	1082.616	1087.328	1091.581	1094.137
30.0	1091.842	1097.772	1102.738	1107.200	1109.722
32.5	1104.694	1111.094	1116.900	1122.391	1125.587
35.0	1118.593	1121.952	1128.325	1134.001	1138.504
37.5	1131.619	1134.654	1136.797	1143.645	1149.314
40.0	1139.528	1145.667	1147.442	1149.892	1157.879
42.5	1140.971	1148.134	1154.828	1155.892	1161.248
45.0	1145.058	1151.523	1155.901	1158.739	1159.985
47.5	1140.716	1146.196	1153.549	1156.749	1161.248
50.0	1135.084	1143.787	1148.113	1148.378	1157.879
52.5	1128.493	1134.792	1136.885	1141.890	1149.314
55.0	1116.558	1121.187	1124.049	1132.072	1138.504
57.5	1100.017	1106.053	1112.022	1119.627	1125.587
60.0	1082.724	1089.443	1097.485	1104.497	1109.722
62.5	1064.512	1072.192	1080.990	1088.364	1094.137
65.0	1044.855	1054.177	1062.759	1069.735	1075.043
67.5	1022.582	1032.996	1041.896	1050.008	1054.404
70.0	998.082	1008.417	1017.093	1024.943	1029.132
72.5	972.426	982.458	990.783	998.231	1002.316
75.0	945.660	955.904	964.498	972.258	976.622
77.5	917.281	927.539	936.161	943.957	948.402
80.0	887.731	897.984	906.554	914.256	918.778
82.5	857.320	867.799	876.695	884.791	889.715
85.0	826.524	836.795	845.538	853.497	858.546
87.5	796.524	806.687	815.469	823.550	828.922
90.0	767.074	777.226	786.044	794.184	799.718
92.5	737.616	747.667	756.481	764.671	770.375
95.0	708.528	718.358	727.041	735.153	740.891

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CANDELA TABULATION - (Cont.)

97.5	679.670	689.335	697.751	705.635	711.266
100.0	651.500	660.658	668.803	676.449	681.923
102.5	622.877	631.835	639.726	647.081	652.298
105.0	593.494	602.274	610.047	617.316	622.534
107.5	564.164	572.796	580.452	587.622	592.769
110.0	534.150	542.634	550.141	557.166	562.162
112.5	503.237	511.456	518.706	525.471	530.291
115.0	472.810	480.665	487.629	493.974	498.841
117.5	442.906	450.474	457.206	463.525	468.094
120.0	413.372	420.568	426.976	432.997	437.346
122.5	384.166	390.958	397.000	402.670	406.739
125.0	355.183	361.550	367.200	372.496	376.272
127.5	326.480	332.468	337.769	342.731	346.226
130.0	297.815	303.364	308.265	312.849	316.040
132.5	269.521	274.615	279.097	283.280	286.135
135.0	241.511	246.118	250.141	253.877	256.370
137.5	213.984	218.193	221.850	225.233	227.448
140.0	187.026	190.811	195.143	197.114	199.087
142.5	161.503	164.912	168.811	170.610	172.411
145.0	137.690	140.717	144.187	145.803	147.420
147.5	115.704	118.270	121.210	122.591	123.973
150.0	96.161	98.299	100.746	101.899	103.054
152.5	78.953	80.717	82.664	83.694	84.661
155.0	64.064	65.516	67.169	67.982	68.796
157.5	51.205	52.375	53.707	54.371	55.037
160.0	40.141	41.047	42.079	42.591	43.103
162.5	30.680	31.346	32.103	32.478	32.854
165.0	22.915	23.420	23.992	24.281	24.570
167.5	16.390	16.938	17.142	17.346	17.550
170.0	11.157	11.528	11.663	11.798	11.934
172.5	6.830	7.055	7.137	7.219	7.301
175.0	3.501	3.538	3.575	3.613	3.650
177.5	0.820	0.825	0.831	0.836	0.842
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	292.13	N.A.	8.40
0-30	625.71	N.A.	18.00
0-40	1036.42	N.A.	29.80
0-60	1900.03	N.A.	54.60
0-80	2587.5	N.A.	74.30
0-90	2842.07	N.A.	81.70
10-90	2766.84	N.A.	79.50
20-40	744.30	N.A.	21.40
20-50	1184.4	N.A.	34.00
40-70	1237.87	N.A.	35.60
60-80	687.47	N.A.	19.80
70-80	313.21	N.A.	9.00
80-90	254.57	N.A.	7.30
90-110	363.06	N.A.	10.40
90-120	480.51	N.A.	13.80
90-130	560.13	N.A.	16.10
90-150	628.36	N.A.	18.10
90-180	638.17	N.A.	18.30
110-180	275.12	N.A.	7.90
0-180	3480.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.24
10-20	216.89
20-30	333.59
30-40	410.71
40-50	440.11
50-60	423.51
60-70	374.26
70-80	313.21
80-90	254.57
90-100	204.02
100-110	159.04
110-120	117.45
120-130	79.63
130-140	46.44
140-150	21.79
150-160	7.83
160-170	1.83
170-180	0.15

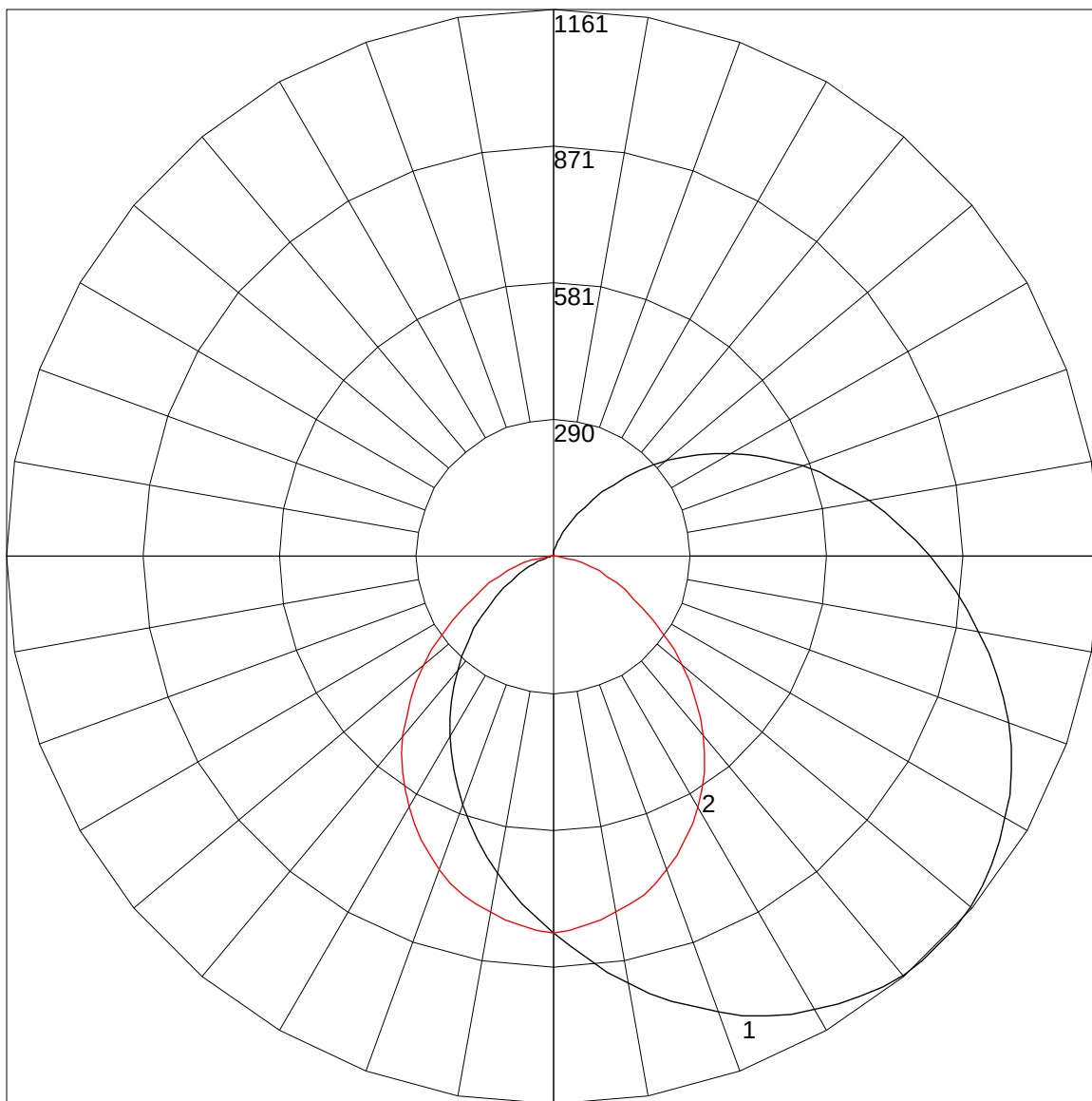
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1161.248 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)