



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.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]MCNL48MFA40
 [MORE]MED POWER SETTING (OUTPUT 880MA)
 [LUMINAIRE]SURFACE MOUNT
 [LAMP]LED
 [LAMP CAT]NA. LUMINAIRE OUTPUT = 3587 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	3587
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	8460	5950	2854
55	10170	6459	2274
65	12895	7177	1691
75	18689	8654	1182
85	43897	14136	455

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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	854.309	854.067	853.826	853.586	853.347	853.111	852.877	851.184	850.513	849.790
5.0	884.841	884.386	883.931	883.479	883.031	880.985	879.844	878.584	877.207	875.717
7.5	916.964	916.296	915.629	914.967	912.606	911.000	909.195	907.194	905.003	902.627
10.0	946.917	946.095	945.276	943.191	941.394	939.323	936.982	934.378	931.516	928.403
12.5	977.449	976.433	975.421	972.703	970.378	967.642	964.656	961.276	957.566	953.539
15.0	1006.533	1005.327	1004.128	1000.837	998.031	994.786	991.114	987.029	982.549	977.690
17.5	1033.013	1031.685	1029.288	1026.628	1023.444	1019.746	1015.547	1010.865	1005.720	1000.132
20.0	1060.651	1059.079	1056.134	1052.871	1048.962	1044.434	1039.317	1033.641	1027.427	1020.761
22.5	1086.697	1084.816	1081.326	1077.524	1072.970	1067.727	1061.840	1055.357	1048.325	1040.460
25.0	1107.968	1105.827	1102.072	1097.954	1093.099	1087.552	1081.363	1074.586	1066.742	1058.075
27.5	1127.647	1125.013	1120.567	1115.773	1110.242	1104.057	1097.298	1090.301	1082.480	1073.798
30.0	1143.709	1141.110	1136.511	1131.393	1125.282	1118.231	1112.114	1105.021	1096.885	1087.706
32.5	1160.060	1156.767	1151.107	1145.123	1138.527	1133.653	1127.023	1119.039	1110.715	1099.456
35.0	1173.372	1168.731	1162.881	1156.314	1152.852	1147.666	1140.335	1131.744	1121.315	1109.602
37.5	1184.514	1178.672	1171.613	1169.405	1166.277	1160.142	1151.694	1140.536	1129.686	1115.192
40.0	1193.341	1185.109	1182.585	1180.755	1174.428	1166.466	1156.349	1145.457	1132.657	1118.227
42.5	1196.814	1191.293	1190.197	1183.298	1175.916	1167.879	1158.819	1148.154	1134.924	1120.040
45.0	1195.511	1194.227	1191.302	1186.789	1180.127	1171.589	1161.591	1149.913	1135.579	1119.588
47.5	1196.814	1192.176	1188.879	1181.301	1175.652	1167.699	1157.828	1146.156	1131.883	1115.163
50.0	1193.341	1183.549	1183.276	1178.818	1169.849	1159.760	1149.358	1136.954	1122.478	1105.547
52.5	1184.514	1176.905	1171.704	1169.547	1163.056	1152.232	1139.610	1126.615	1109.446	1091.792
55.0	1173.372	1166.743	1158.475	1155.525	1150.755	1140.288	1127.747	1112.572	1095.009	1074.925
57.5	1160.060	1153.917	1146.079	1139.926	1133.707	1124.641	1112.683	1097.147	1079.378	1058.492
60.0	1143.709	1138.324	1131.098	1122.809	1115.885	1106.720	1094.837	1079.489	1060.812	1039.893
62.5	1127.647	1121.697	1114.097	1105.029	1097.114	1087.406	1074.439	1059.239	1040.035	1019.618
65.0	1107.968	1102.498	1095.308	1086.463	1076.854	1066.106	1052.047	1035.854	1016.823	994.798
67.5	1086.697	1082.167	1073.806	1064.633	1053.900	1041.922	1027.350	1010.316	990.957	968.691
70.0	1060.651	1056.334	1048.243	1039.301	1028.650	1015.973	1000.969	983.500	963.825	941.359
72.5	1033.013	1028.802	1021.127	1012.547	1002.209	989.481	973.924	955.850	935.698	913.158
75.0	1006.533	1002.036	994.038	985.181	974.623	962.013	946.780	927.303	906.772	883.893
77.5	977.449	972.868	964.833	955.947	945.374	933.166	916.773	897.697	876.505	853.341
80.0	946.917	942.257	934.319	925.485	914.920	902.615	886.557	867.234	846.137	823.356
82.5	916.964	911.889	903.546	894.376	883.577	871.175	856.044	836.849	816.078	793.735
85.0	884.841	879.637	871.434	862.423	851.838	839.673	825.808	806.895	786.487	764.382
87.5	854.309	848.773	840.445	831.393	820.919	809.029	795.742	778.006	757.390	735.399
90.0	824.211	818.508	810.119	801.030	790.567	778.729	765.531	750.141	728.600	706.743
92.5	793.969	788.090	779.649	770.566	760.207	748.586	735.726	720.712	700.521	678.859
95.0	763.582	757.668	749.307	740.358	730.228	718.943	706.538	693.050	673.386	651.769
97.5	733.050	727.246	719.122	710.447	700.663	689.800	677.893	664.980	647.099	625.443
100.0	702.808	697.166	689.287	680.892	671.454	661.008	649.598	637.266	621.240	598.866
102.5	672.276	666.900	659.319	651.186	641.954	631.631	620.232	607.774	594.031	571.880
105.0	641.600	636.222	628.730	620.720	611.670	601.596	590.516	578.452	565.414	545.386
107.5	610.923	605.618	598.228	590.339	581.443	571.561	560.718	548.940	537.494	518.713
110.0	579.379	574.411	566.991	559.253	550.510	540.784	530.099	518.484	506.080	491.553
112.5	546.532	541.565	534.603	527.157	518.738	509.362	499.047	487.813	475.685	462.846
115.0	514.119	509.282	502.564	495.387	487.291	478.290	468.400	457.638	446.026	433.757
117.5	482.430	477.720	471.208	464.270	456.470	447.829	438.370	428.117	417.095	405.445
120.0	450.741	446.259	440.054	433.449	426.032	417.828	408.863	399.162	388.756	377.713
122.5	419.196	415.003	409.158	402.932	395.932	388.180	379.703	370.527	360.679	350.216
125.0	387.796	383.905	378.446	372.623	366.061	358.783	350.811	342.170	332.884	323.644
127.5	356.830	353.228	348.113	342.650	336.479	329.621	322.102	313.944	305.174	295.817
130.0	325.720	322.432	317.707	312.656	306.937	300.575	293.596	286.024	277.885	269.206
132.5	294.899	291.957	287.645	283.026	277.776	271.921	265.485	258.495	250.978	242.961

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PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

135.0	264.222	261.653	257.802	253.656	248.907	243.575	237.677	231.234	224.264	216.790
137.5	234.414	232.131	228.644	224.963	220.537	215.643	210.326	204.252	197.788	190.876
140.0	205.185	203.152	201.121	196.655	192.754	188.340	183.423	178.013	172.123	165.765
142.5	177.692	175.836	173.982	169.963	166.449	162.482	158.071	153.228	147.964	142.290
145.0	151.935	150.268	148.603	145.027	141.907	138.396	134.508	130.256	125.652	120.709
147.5	127.770	126.345	124.922	121.892	119.247	116.277	112.992	109.406	105.527	101.369
150.0	106.210	105.020	103.911	101.310	99.106	96.630	93.891	90.897	87.656	84.179
152.5	87.254	86.258	85.262	83.189	81.371	79.331	77.076	74.610	71.943	69.079
155.0	70.903	70.064	69.226	67.523	66.026	64.352	62.507	60.497	58.327	56.006
157.5	56.722	56.036	55.351	53.979	52.773	51.430	49.955	48.354	46.632	44.794
160.0	44.423	43.895	43.368	42.304	41.370	40.330	39.188	37.949	36.616	35.194
162.5	33.860	33.473	33.086	32.323	31.619	30.851	30.030	29.082	28.086	27.030
165.0	25.323	25.025	24.727	24.137	23.617	23.038	22.402	21.711	20.967	20.173
167.5	18.088	17.878	17.667	17.458	16.912	16.490	16.047	15.567	15.072	14.499
170.0	12.300	12.160	12.021	11.882	11.500	11.228	10.929	10.605	10.255	9.881
172.5	7.524	7.439	7.355	7.271	7.039	6.875	6.694	6.498	6.287	6.062
175.0	3.762	3.724	3.685	3.647	3.609	3.450	3.362	3.265	3.161	3.051
177.5	0.868	0.862	0.857	0.851	0.845	0.840	0.834	0.792	0.776	0.758
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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	849.016	848.192	847.320	846.403	845.441	844.438	843.394	842.264	841.195	840.045
5.0	874.117	872.410	870.600	868.692	866.689	864.596	862.418	860.159	857.825	855.421
7.5	900.072	897.345	894.452	891.402	888.201	884.858	881.382	877.781	874.063	870.341
10.0	925.048	921.460	917.648	913.624	909.398	904.982	900.224	895.276	890.175	884.936
12.5	949.207	944.585	939.689	934.535	929.077	923.370	917.437	911.295	904.964	898.462
15.0	972.471	966.913	960.922	954.497	947.784	940.805	933.586	926.105	918.262	910.222
17.5	994.128	987.457	980.312	972.824	965.023	957.255	948.224	939.292	930.152	920.650
20.0	1013.591	1005.956	997.900	989.460	980.290	970.315	960.004	950.241	938.089	926.606
22.5	1032.039	1023.086	1013.560	1003.325	992.573	981.388	969.441	957.040	944.384	931.116
25.0	1048.850	1039.541	1027.840	1016.150	1003.899	990.855	977.415	963.339	948.765	934.952
27.5	1064.182	1052.750	1040.732	1027.694	1013.643	1000.396	983.643	967.861	951.393	934.575
30.0	1076.658	1064.860	1051.437	1037.112	1021.705	1005.236	988.125	970.215	951.949	933.221
32.5	1087.940	1074.420	1060.047	1043.858	1027.136	1008.772	990.045	970.094	949.990	929.124
35.0	1095.680	1081.073	1064.563	1047.306	1028.852	1009.311	988.800	967.219	945.349	922.361
37.5	1100.520	1084.158	1066.426	1047.932	1027.727	1006.829	984.644	961.374	938.927	912.681
40.0	1102.731	1084.269	1065.169	1045.065	1023.466	1001.068	977.288	952.345	926.712	899.863
42.5	1103.300	1084.167	1063.921	1042.563	1019.346	995.082	969.752	942.397	914.106	884.825
45.0	1101.960	1082.036	1060.648	1038.029	1013.701	987.810	960.832	932.397	902.254	871.431
47.5	1096.669	1076.506	1053.806	1029.726	1004.379	977.154	948.453	918.618	887.253	854.900
50.0	1086.310	1065.520	1043.628	1017.828	990.939	962.793	932.822	901.193	868.698	835.455
52.5	1072.506	1050.814	1027.261	1001.949	974.439	944.669	913.219	880.747	846.923	812.635
55.0	1054.679	1032.835	1009.121	982.671	954.408	924.336	891.615	857.559	822.367	786.991
57.5	1035.697	1012.056	987.278	960.625	931.714	900.243	867.281	832.956	797.112	760.542
60.0	1016.759	990.740	962.992	935.492	905.532	873.874	840.471	805.740	770.063	733.563
62.5	994.671	968.422	939.604	907.856	877.023	844.887	811.461	776.944	741.403	705.199
65.0	970.326	943.724	914.103	882.196	847.612	814.041	780.934	746.633	711.527	675.758
67.5	944.130	916.934	887.266	855.136	820.547	784.276	749.043	715.284	680.682	645.434
70.0	916.715	889.230	859.452	826.926	792.771	756.902	719.387	683.093	649.031	614.462
72.5	888.505	860.554	830.279	798.459	766.399	729.509	692.398	653.667	616.778	583.064
75.0	858.491	831.018	801.587	770.279	737.162	702.080	666.584	627.189	587.979	551.707
77.5	828.599	803.179	773.499	742.510	709.418	674.723	638.565	601.214	562.859	524.354
80.0	799.170	773.685	745.649	714.578	682.059	648.310	612.330	575.749	538.590	500.858

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PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

82.5	769.852	744.278	717.245	687.489	655.185	621.356	586.992	550.878	514.888	477.336
85.0	740.692	715.546	688.898	660.472	628.449	595.415	561.267	526.219	490.315	453.576
87.5	711.928	686.914	660.513	632.523	602.227	569.590	535.939	501.392	465.935	429.665
90.0	683.384	658.730	632.558	604.886	575.663	543.680	510.526	476.396	441.380	406.025
92.5	655.717	631.406	605.129	577.593	548.569	517.676	484.912	451.469	417.386	382.698
95.0	628.679	604.212	578.272	550.739	521.633	491.330	459.726	426.998	393.578	359.702
97.5	602.364	577.580	551.262	524.661	495.234	465.609	434.764	402.590	370.264	338.474
100.0	575.231	550.436	524.600	497.581	469.381	440.043	409.871	378.857	347.643	316.171
102.5	548.566	524.081	498.418	471.617	443.789	415.075	385.765	356.257	326.254	296.353
105.0	522.169	497.837	472.335	445.887	418.700	391.062	362.823	334.730	306.661	277.750
107.5	495.513	471.353	446.445	420.809	394.514	368.084	341.400	314.302	287.256	260.111
110.0	468.826	445.647	421.194	396.585	371.364	346.134	320.518	294.796	268.981	243.754
112.5	442.603	419.948	396.785	373.298	349.288	325.084	300.625	275.988	251.599	227.174
115.0	417.122	395.464	373.276	350.822	327.893	304.713	281.494	258.026	235.105	212.154
117.5	392.385	371.679	350.434	328.959	307.120	285.020	263.089	241.033	219.240	197.626
120.0	366.092	348.308	328.041	307.568	286.879	265.964	245.166	224.344	203.723	183.481
122.5	339.217	325.161	305.945	286.497	266.900	247.138	227.519	208.022	188.572	169.525
125.0	312.546	301.566	283.868	265.515	247.169	228.688	210.216	191.913	173.618	155.705
127.5	286.069	275.838	262.105	245.492	227.739	210.439	193.469	175.873	158.771	141.964
130.0	260.117	250.608	240.710	224.545	208.362	192.114	175.837	159.764	143.874	128.884
132.5	234.489	225.565	216.191	203.803	188.910	173.581	158.474	143.648	129.043	114.694
135.0	208.857	200.506	191.709	182.486	168.790	154.980	141.193	127.929	114.596	101.853
137.5	184.189	175.778	167.672	159.138	148.990	136.739	124.534	112.669	100.942	89.936
140.0	158.951	152.057	144.812	137.194	129.218	119.489	108.958	98.493	88.368	79.026
142.5	136.218	130.060	123.744	117.136	110.251	103.300	94.682	86.055	77.065	68.969
145.0	115.441	110.054	104.720	99.148	93.352	87.345	81.643	74.116	66.865	59.538
147.5	96.943	92.520	87.801	83.104	78.209	73.144	68.115	63.260	57.045	50.902
150.0	80.474	76.550	72.721	68.825	64.761	60.538	56.161	52.186	48.134	43.304
152.5	66.026	62.790	59.513	56.343	53.045	49.692	46.089	42.658	39.472	36.229
155.0	53.532	50.919	48.170	45.619	43.012	40.321	37.552	34.710	32.106	29.552
157.5	42.847	40.795	38.644	36.507	34.464	32.369	30.192	27.973	25.748	23.661
160.0	33.687	32.101	30.440	28.707	27.080	25.442	23.748	21.999	20.200	18.568
162.5	25.882	24.679	23.413	22.085	20.742	19.478	18.211	16.910	15.576	14.212
165.0	19.330	18.441	17.507	16.532	15.517	14.555	13.581	12.656	11.708	10.739
167.5	13.914	13.297	12.650	11.975	11.272	10.543	9.790	9.119	8.443	7.753
170.0	9.484	9.064	8.624	8.164	7.684	7.206	6.672	6.141	5.690	5.187
172.5	5.824	5.573	5.310	5.036	4.751	4.456	4.152	3.839	3.517	3.188
175.0	2.932	2.808	2.678	2.543	2.402	2.257	2.107	1.953	1.795	1.634
177.5	0.740	0.720	0.699	0.678	0.655	0.631	0.607	0.582	0.556	0.530
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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	838.863	837.653	836.417	835.158	833.877	832.579	831.264	829.937	828.599	827.253
5.0	852.952	850.425	847.843	845.215	842.591	839.939	837.259	834.556	831.836	829.105
7.5	866.533	862.637	858.662	854.619	850.516	846.323	842.169	838.925	833.831	829.681
10.0	879.572	874.090	868.522	862.974	857.376	851.719	846.016	840.282	834.529	828.903
12.5	891.606	884.605	877.493	870.288	863.009	855.779	848.393	841.240	833.948	827.691
15.0	902.009	893.648	884.987	876.199	867.339	858.430	849.566	840.709	831.860	823.038
17.5	910.397	899.999	889.491	878.810	868.036	857.261	846.530	835.941	825.426	815.014
20.0	914.960	902.730	890.350	877.912	865.402	852.915	840.489	828.272	816.181	804.342
22.5	917.625	903.949	889.622	875.132	860.960	846.758	832.659	818.831	805.189	791.772
25.0	918.570	903.100	887.061	870.748	854.566	838.668	822.923	807.543	792.393	777.498
27.5	917.545	900.176	882.429	864.147	846.097	828.546	812.359	794.354	777.754	761.343

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

30.0	914.301	894.984	875.497	855.173	835.451	816.310	797.523	779.227	761.168	743.261
32.5	908.173	886.797	865.213	843.145	821.634	800.749	780.434	760.679	741.182	722.106
35.0	899.346	875.918	852.268	828.446	805.280	782.660	760.756	739.357	718.292	697.961
37.5	887.573	862.193	836.548	811.107	786.309	762.128	738.651	715.649	693.214	671.794
40.0	872.642	846.859	817.975	791.025	764.645	739.005	714.039	689.637	665.774	643.507
42.5	854.423	825.346	796.519	768.057	740.271	713.255	686.756	661.371	636.834	613.388
45.0	839.920	808.117	776.445	744.915	713.792	684.872	657.408	630.932	605.529	581.515
47.5	822.250	789.417	756.597	724.143	692.111	660.570	629.551	599.055	572.633	548.299
50.0	801.583	767.800	735.663	700.970	668.264	636.064	604.539	574.051	544.499	516.354
52.5	778.114	743.543	709.331	675.576	642.379	609.902	578.175	547.578	518.307	489.927
55.0	751.788	716.813	682.172	648.191	614.852	582.179	550.732	520.348	490.804	462.541
57.5	723.363	687.763	653.121	619.079	585.736	553.544	522.236	492.650	462.690	434.190
60.0	696.523	659.258	622.253	588.557	555.732	523.711	492.679	462.759	433.495	404.945
62.5	668.534	631.610	594.939	558.557	524.498	493.001	462.445	432.659	403.599	375.382
65.0	639.552	603.312	567.207	531.364	496.072	461.519	431.288	401.920	373.366	345.406
67.5	609.902	574.325	539.003	504.123	469.370	436.458	400.689	370.920	342.771	315.329
70.0	579.681	545.080	510.829	476.597	442.453	408.587	375.029	341.921	312.220	285.390
72.5	549.377	515.990	482.492	448.984	415.516	382.171	349.118	316.762	284.961	255.481
75.0	519.425	486.871	454.160	421.275	388.332	355.513	323.274	291.518	260.271	229.942
77.5	489.572	458.148	425.671	393.309	360.903	328.925	297.373	266.254	235.988	206.773
80.0	462.522	428.530	396.904	365.086	333.516	302.338	271.512	241.432	212.319	184.051
82.5	439.419	400.883	367.872	336.853	306.229	275.864	246.096	217.241	189.159	162.090
85.0	416.138	378.579	339.779	308.875	279.138	249.807	221.373	193.635	166.807	142.248
87.5	392.929	356.516	318.402	281.194	252.399	224.553	197.334	170.849	146.527	123.540
90.0	370.018	333.731	297.461	261.107	226.628	200.111	174.213	150.144	127.388	105.819
92.5	347.449	312.339	277.111	242.177	208.009	176.713	152.970	130.589	109.275	89.130
95.0	325.622	291.688	257.627	224.559	191.813	159.896	133.008	112.170	92.543	74.234
97.5	304.736	272.046	239.801	208.163	177.268	147.085	118.343	95.373	77.832	61.008
100.0	284.991	253.732	223.221	192.974	163.624	135.593	108.564	83.623	64.793	49.628
102.5	266.469	236.874	207.754	179.099	151.734	125.316	100.409	77.109	55.171	40.519
105.0	249.135	221.071	193.333	166.617	140.953	116.184	93.203	71.437	51.649	34.189
107.5	232.807	206.319	180.099	155.318	131.105	108.250	87.136	66.685	48.991	32.951
110.0	217.652	192.592	168.257	144.800	122.084	101.017	80.993	62.928	46.571	31.919
112.5	203.436	179.751	156.995	134.853	113.966	94.569	75.807	59.292	44.191	31.265
115.0	189.768	167.528	146.182	125.441	106.039	87.562	70.916	55.610	42.002	30.439
117.5	176.425	155.713	135.539	116.242	98.131	81.231	65.885	51.743	39.807	29.282
120.0	163.425	143.903	124.703	107.018	90.163	74.799	60.630	48.150	37.243	27.825
122.5	150.585	132.315	114.442	97.617	82.132	68.148	55.255	44.195	34.267	26.229
125.0	138.070	120.921	104.395	88.529	74.041	61.251	49.933	39.962	31.431	24.349
127.5	125.738	109.567	94.495	79.834	66.519	54.245	44.559	35.666	28.579	22.242
130.0	113.223	98.558	84.846	71.790	59.754	48.802	39.279	31.938	25.512	20.017
132.5	101.128	88.077	75.642	64.384	53.726	44.281	35.452	27.977	22.196	17.619
135.0	89.614	78.339	67.363	57.603	48.402	39.999	32.346	25.430	19.438	15.033
137.5	79.129	69.410	60.099	51.334	43.564	35.769	29.297	23.185	17.979	13.229
140.0	69.865	61.193	53.182	45.418	38.551	32.117	26.275	21.120	16.359	12.326
142.5	61.131	53.461	46.622	40.081	33.931	28.554	23.406	18.979	14.890	11.389
145.0	52.955	46.516	40.553	35.038	29.792	25.114	20.866	17.024	13.540	10.417
147.5	45.386	40.098	34.927	30.338	26.073	21.932	18.438	15.149	12.106	9.449
150.0	38.503	34.280	30.132	26.066	22.624	19.292	16.267	13.313	10.645	8.339
152.5	32.699	29.086	25.763	22.507	19.379	16.580	13.866	11.333	9.342	7.455
155.0	26.961	24.337	21.649	18.940	16.286	13.810	11.764	9.795	8.069	6.534
157.5	21.564	19.425	17.245	15.360	13.479	11.525	9.680	8.219	6.786	5.427
160.0	16.827	15.233	13.617	11.982	10.552	9.216	7.873	6.523	5.379	4.309
162.5	12.887	11.682	10.515	9.335	8.143	7.007	6.005	5.000	3.992	3.046
165.0	9.752	8.747	7.856	6.975	6.102	5.221	4.334	3.592	2.965	2.343
167.5	7.049	6.332	5.603	4.863	4.289	3.735	3.182	2.629	2.077	1.584

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

170.0	4.747	4.302	3.851	3.396	2.938	2.476	2.070	1.777	1.489	1.205
172.5	2.852	2.577	2.334	2.090	1.847	1.603	1.360	1.117	0.875	0.633
175.0	1.470	1.302	1.132	0.960	0.786	0.636	0.575	0.523	0.470	0.417
177.5	0.502	0.475	0.446	0.418	0.388	0.359	0.329	0.298	0.268	0.237
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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	825.902	824.549	823.197	821.847	820.503	819.168	818.508	816.520	815.218	813.933
5.0	826.368	823.631	820.899	818.178	815.474	812.794	810.119	807.478	804.875	802.313
7.5	825.531	821.387	817.260	813.157	809.086	805.041	801.030	797.075	793.183	789.361
10.0	823.322	817.761	812.232	806.745	801.354	795.902	790.567	785.315	780.156	775.100
12.5	819.680	812.701	805.776	798.918	792.110	785.367	778.574	772.208	765.813	759.638
15.0	814.556	806.171	797.866	789.875	781.484	773.438	765.531	758.345	750.350	742.995
17.5	805.010	795.193	785.317	776.070	766.777	757.710	750.141	740.531	732.434	724.633
20.0	792.708	781.377	770.993	759.407	748.804	739.093	728.600	719.039	709.818	701.195
22.5	778.693	765.865	753.358	741.173	729.298	717.834	706.743	697.388	686.033	676.418
25.0	762.895	748.623	734.818	721.358	708.272	695.594	683.384	671.861	660.803	650.299
27.5	745.263	729.722	714.646	699.937	685.620	673.237	658.730	646.170	634.206	622.830
30.0	725.844	709.130	692.827	676.831	661.343	646.395	632.558	619.053	606.168	593.973
32.5	703.912	686.400	668.990	652.051	635.696	619.990	604.886	590.433	576.725	563.762
35.0	678.523	659.689	641.431	624.026	607.380	591.320	575.663	560.375	545.864	532.001
37.5	651.122	631.204	612.140	594.025	576.589	559.798	543.680	528.224	513.367	498.923
40.0	621.896	601.115	581.549	562.721	544.639	527.242	510.526	494.445	479.016	464.722
42.5	590.924	569.854	549.619	530.283	511.632	493.678	476.396	459.781	444.353	429.660
45.0	558.821	537.823	516.626	496.760	477.606	459.153	441.380	424.805	409.006	394.076
47.5	525.330	503.541	482.517	462.212	442.628	423.737	406.025	389.151	373.224	358.323
50.0	490.879	468.768	447.379	426.713	406.760	387.936	370.018	353.137	337.361	322.457
52.5	462.467	435.581	411.280	390.335	370.446	351.513	333.731	317.102	302.387	287.335
55.0	434.798	407.576	380.909	354.915	333.526	314.910	297.461	280.972	266.123	252.552
57.5	406.228	378.954	352.310	326.256	301.265	278.334	261.107	245.505	231.305	218.338
60.0	377.177	349.982	323.350	297.805	273.102	249.171	226.628	210.575	197.403	185.607
62.5	347.745	320.670	294.661	269.430	246.378	221.947	200.111	180.572	164.329	153.795
65.0	318.081	291.664	266.000	241.286	217.600	195.385	174.213	155.165	137.383	123.884
67.5	288.634	262.645	237.468	213.702	191.003	170.660	150.144	132.191	115.343	100.566
70.0	259.197	233.864	209.838	186.829	165.639	145.471	127.388	110.428	95.119	81.537
72.5	230.112	205.937	182.720	160.569	141.019	122.858	105.732	90.028	76.010	63.519
75.0	201.843	178.532	156.251	136.662	118.484	101.428	85.214	70.768	57.926	47.241
77.5	178.467	151.840	132.270	114.151	97.162	80.587	65.737	52.556	41.620	33.333
80.0	156.846	132.275	109.750	92.918	76.050	60.842	47.342	36.201	28.002	21.630
82.5	137.450	114.445	92.960	71.439	55.996	42.214	30.918	22.815	16.795	12.650
85.0	119.182	97.564	76.237	56.024	37.079	25.699	17.713	12.050	8.469	7.735
87.5	101.884	80.884	60.990	42.265	25.711	12.637	7.345	4.364	4.655	4.329
90.0	85.214	65.737	47.342	30.918	17.713	7.345	0.289	1.606	2.157	2.132
92.5	70.199	52.210	35.967	22.714	12.022	4.358	1.606	0.001	0.708	0.920
95.0	56.790	40.906	27.568	16.630	8.424	4.642	2.157	0.712	0.004	0.281
97.5	45.277	32.204	21.107	12.482	7.647	4.304	2.132	0.928	0.290	0.004
100.0	36.547	25.381	16.267	10.574	6.419	3.542	1.853	0.864	0.308	0.057
102.5	29.364	19.930	13.353	8.459	4.924	2.766	1.438	0.617	0.172	0.036
105.0	23.283	15.894	10.366	6.246	3.644	2.011	0.923	0.291	0.073	0.000
107.5	19.050	12.066	7.468	4.451	2.536	1.221	0.410	0.111	0.000	0.000
110.0	19.727	9.424	5.147	3.021	1.499	0.518	0.149	0.000	0.000	0.000
112.5	20.249	11.155	4.347	1.739	0.603	0.183	0.000	0.000	0.000	0.000
115.0	20.507	12.741	6.498	1.671	0.207	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

117.5	20.624	13.604	7.977	4.120	1.092	0.000	0.000	0.000	0.000	0.000
120.0	20.232	13.877	9.170	5.548	2.898	1.051	0.000	0.000	0.000	0.000
122.5	19.400	14.017	9.779	6.498	3.997	2.176	0.907	0.110	0.000	0.000
125.0	18.390	13.679	9.770	6.799	4.474	2.717	1.489	0.682	0.185	0.000
127.5	17.133	12.810	9.375	6.638	4.442	2.837	1.640	0.858	0.363	0.091
130.0	15.461	11.634	8.597	6.103	4.104	2.589	1.531	0.786	0.276	0.091
132.5	13.581	10.275	7.453	5.233	3.469	2.169	1.206	0.474	0.189	0.033
135.0	11.588	8.621	6.163	4.239	2.732	1.592	0.657	0.293	0.056	0.014
137.5	9.468	6.825	4.851	3.174	1.922	0.838	0.392	0.079	0.025	0.000
140.0	8.714	5.689	3.527	2.129	0.967	0.471	0.100	0.036	0.000	0.000
142.5	8.285	5.575	3.313	1.444	0.515	0.118	0.046	0.000	0.000	0.000
145.0	7.733	5.329	3.426	2.054	1.028	0.453	0.073	0.000	0.000	0.000
147.5	6.939	5.139	3.575	2.419	1.598	0.970	0.548	0.258	0.103	0.022
150.0	6.508	4.807	3.625	2.608	1.799	1.175	0.684	0.381	0.142	0.064
152.5	5.837	4.575	3.414	2.504	1.730	1.084	0.663	0.289	0.147	0.040
155.0	5.199	3.990	3.026	2.128	1.423	0.911	0.438	0.237	0.092	0.000
157.5	4.322	3.303	2.333	1.661	1.088	0.543	0.322	0.148	0.000	0.000
160.0	3.275	2.387	1.759	1.152	0.598	0.388	0.196	0.010	0.000	0.000
162.5	2.372	1.708	1.064	0.626	0.422	0.222	0.025	0.000	0.000	0.000
165.0	1.727	1.160	0.858	0.590	0.335	0.092	0.052	0.031	0.014	0.000
167.5	1.281	0.987	0.702	0.425	0.202	0.152	0.106	0.063	0.021	0.000
170.0	0.926	0.650	0.378	0.293	0.231	0.171	0.113	0.056	0.000	0.000
172.5	0.463	0.399	0.335	0.273	0.211	0.150	0.090	0.030	0.000	0.000
175.0	0.364	0.312	0.260	0.208	0.156	0.104	0.052	0.000	0.000	0.000
177.5	0.206	0.175	0.143	0.111	0.080	0.048	0.016	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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	812.670	811.429	810.215	809.028	807.871	806.746	805.656	804.601	803.585	802.609
5.0	799.798	797.334	794.926	792.578	790.295	788.079	785.936	783.868	781.885	779.984
7.5	785.616	781.955	778.383	774.924	771.576	768.332	765.199	762.181	759.282	756.508
10.0	770.697	765.393	760.750	756.237	751.793	747.629	743.547	739.656	735.941	732.387
12.5	753.627	747.769	742.070	736.540	731.263	726.095	721.293	716.587	712.075	708.342
15.0	735.993	729.092	722.538	716.193	710.050	704.117	698.457	693.090	687.946	683.031
17.5	717.280	709.784	702.337	695.118	688.276	681.702	675.370	669.287	663.523	658.041
20.0	692.957	685.019	677.770	670.915	664.484	658.514	651.977	645.352	638.994	632.683
22.5	667.271	658.710	650.620	643.035	636.080	629.632	623.696	617.777	612.273	605.894
25.0	640.368	630.962	622.219	614.063	606.475	598.954	591.925	585.453	579.687	574.522
27.5	612.065	602.009	592.569	583.444	574.721	566.600	559.288	552.619	546.553	541.065
30.0	582.498	573.069	561.085	551.158	542.056	533.721	526.032	518.965	512.551	506.975
32.5	551.387	539.518	528.376	518.234	508.773	499.984	491.881	484.474	477.675	471.522
35.0	518.787	506.501	495.144	484.501	474.572	465.379	456.962	449.223	441.870	436.173
37.5	485.442	472.830	460.965	449.857	439.626	430.209	421.594	414.020	407.065	401.118
40.0	451.175	438.208	425.884	414.697	404.245	395.043	386.595	379.147	372.553	366.655
42.5	415.757	402.632	390.567	379.317	369.360	360.173	352.232	344.861	338.771	333.212
45.0	380.061	367.025	355.200	344.446	334.915	326.199	318.558	311.774	305.764	300.552
47.5	344.337	331.821	320.155	310.160	301.843	293.101	286.714	279.349	273.484	268.795
50.0	309.214	296.900	286.143	276.440	267.968	260.438	253.722	247.802	242.292	238.180
52.5	274.395	262.864	252.746	243.594	235.781	228.956	222.737	217.345	213.024	209.430
55.0	240.282	229.746	219.688	211.910	204.599	198.410	193.142	188.590	184.727	181.128
57.5	207.387	197.413	188.768	181.448	174.918	169.818	165.082	161.296	157.735	154.763
60.0	175.338	166.291	159.004	152.449	147.298	142.756	138.838	135.612	132.553	129.857
62.5	144.406	137.184	130.768	125.499	121.233	117.602	114.513	111.728	109.263	106.797

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

65.0	115.903	109.652	104.336	100.415	96.929	94.318	92.113	89.881	88.098	85.604
67.5	89.010	84.407	80.200	77.249	74.906	73.436	71.834	70.589	69.165	67.503
70.0	69.396	60.486	58.136	56.766	55.547	54.815	54.101	53.572	52.543	51.669
72.5	53.130	44.680	38.363	38.301	38.527	38.560	38.952	38.984	38.754	38.342
75.0	38.738	31.823	26.272	22.815	23.903	25.125	26.323	26.963	27.537	27.465
77.5	26.615	21.477	17.744	13.986	11.920	14.372	16.201	17.642	18.601	19.045
80.0	16.963	14.200	11.302	8.344	6.282	6.031	8.357	10.451	11.754	12.713
82.5	10.893	8.846	6.625	4.984	3.475	2.121	2.851	5.170	6.863	8.121
85.0	6.543	5.060	3.847	2.721	1.661	0.814	0.301	1.586	3.565	4.790
87.5	3.574	2.818	2.052	1.269	0.582	0.213	0.000	0.000	1.279	2.450
90.0	1.853	1.438	0.923	0.408	0.149	0.000	0.000	0.000	0.000	0.907
92.5	0.853	0.605	0.275	0.102	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.298	0.160	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.052	0.032	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	0.013	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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	801.674	800.783	799.936	799.135	798.255	797.679	797.025	796.423	795.872	795.375
5.0	778.167	776.438	774.799	773.116	771.802	770.447	769.193	768.039	766.988	766.042
7.5	753.861	751.347	749.932	746.749	744.664	742.720	740.920	739.268	737.764	736.411
10.0	728.998	725.779	722.735	719.869	717.184	714.724	712.458	710.379	708.490	706.793

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES**

CANDELA TABULATION - (Cont.)

12.5	703.750	699.932	696.322	692.925	689.745	686.786	684.452	681.553	679.279	677.233
15.0	678.350	673.924	669.769	665.854	662.184	658.763	655.595	652.685	649.915	647.417
17.5	652.812	647.843	643.139	638.437	634.030	629.939	626.168	622.721	619.602	616.848
20.0	626.521	620.613	615.045	609.823	605.024	600.580	596.484	592.740	589.351	587.334
22.5	599.100	592.779	586.819	581.227	576.007	571.098	566.561	562.404	558.632	555.248
25.0	569.913	564.839	558.358	552.262	546.558	541.196	536.061	531.344	527.050	523.185
27.5	535.713	531.908	528.120	522.674	516.295	510.348	504.850	499.813	495.238	491.129
30.0	501.501	496.821	492.759	489.334	485.758	479.445	473.989	468.436	463.736	459.523
32.5	466.074	461.352	457.223	453.237	451.041	448.884	442.917	437.570	432.798	428.460
35.0	430.668	426.027	422.080	418.709	416.141	414.245	412.899	408.372	402.532	398.137
37.5	395.865	391.250	387.614	384.526	382.044	380.361	379.222	377.997	372.912	368.326
40.0	361.794	357.477	353.941	351.090	348.783	347.187	345.637	345.633	343.746	338.976
42.5	328.500	324.465	321.016	318.405	316.270	314.710	313.780	313.293	313.612	310.068
45.0	295.956	292.289	289.072	286.612	284.677	283.146	282.206	281.661	281.521	281.486
47.5	264.543	261.161	258.295	255.886	254.038	252.518	251.558	251.080	250.959	251.318
50.0	234.486	231.242	228.596	226.216	224.536	223.160	222.153	221.658	221.485	221.669
52.5	205.622	202.521	200.145	198.016	196.305	194.573	193.889	193.234	192.804	192.626
55.0	178.060	175.345	172.998	170.995	169.243	167.911	166.696	165.623	165.101	164.565
57.5	151.856	149.368	147.065	145.275	143.501	142.119	140.776	139.635	138.799	138.018
60.0	126.940	124.819	122.732	121.039	119.325	117.872	116.547	115.221	114.519	113.794
62.5	104.365	101.918	100.129	98.504	97.019	95.566	94.532	93.332	92.841	92.385
65.0	83.926	81.457	79.480	77.984	76.958	75.630	75.156	74.417	74.059	73.918
67.5	65.836	63.652	61.557	59.914	59.480	58.818	58.599	58.356	58.072	58.027
70.0	50.260	48.635	46.809	44.854	44.725	44.738	44.659	44.631	44.346	44.460
72.5	37.329	36.328	34.853	33.609	32.503	32.837	32.845	33.112	32.987	33.147
75.0	27.062	26.543	25.517	24.567	22.977	23.008	23.248	23.653	23.739	23.899
77.5	19.219	18.939	18.331	17.418	16.246	15.080	15.572	15.985	16.260	16.480
80.0	13.197	13.084	12.730	11.932	11.008	9.809	9.377	9.878	10.419	10.688
82.5	8.673	8.754	8.469	7.774	6.971	5.841	4.929	5.282	5.840	6.040
85.0	5.379	5.548	5.278	4.716	4.033	3.212	2.374	1.791	2.623	3.145
87.5	3.063	3.222	2.981	2.620	2.033	1.347	0.751	0.343	0.838	1.482
90.0	1.489	1.640	1.531	1.206	0.657	0.392	0.100	0.046	0.073	0.548
92.5	0.529	0.694	0.611	0.364	0.165	0.053	0.005	0.000	0.000	0.115
95.0	0.039	0.191	0.158	0.044	0.023	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

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. Horizontal Angles
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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	794.932	794.543	794.210	793.932	793.710	793.545	793.436	793.384	793.388	793.449
5.0	765.201	764.467	763.840	763.322	762.913	762.614	762.424	762.344	762.374	762.513
7.5	735.211	734.165	733.275	732.541	731.965	731.547	731.191	731.186	731.244	731.459
10.0	705.290	703.983	702.873	701.963	701.252	700.743	700.434	700.327	700.422	700.718
12.5	675.403	673.836	672.489	671.380	670.511	669.882	669.494	669.350	669.449	669.791
15.0	645.210	643.295	641.673	640.345	639.311	638.573	638.130	637.981	638.125	638.561
17.5	614.290	612.316	610.541	609.095	607.979	607.194	606.739	606.616	606.823	607.358
20.0	583.565	581.185	579.170	577.522	576.189	575.333	574.795	574.629	574.836	575.416
22.5	552.150	549.388	547.035	545.095	543.571	542.465	541.779	541.515	541.673	542.254
25.0	520.265	516.797	514.284	512.220	510.609	509.452	508.750	508.506	508.718	509.386
27.5	487.491	484.408	481.838	479.742	478.121	476.979	476.317	476.136	476.436	477.216
30.0	455.803	452.609	449.979	447.829	446.163	444.987	444.305	444.120	444.436	445.254
32.5	424.693	421.376	418.652	416.420	414.679	413.436	412.699	412.473	412.765	413.579
35.0	394.218	390.786	387.889	385.512	383.638	382.279	381.442	381.135	381.367	382.143
37.5	364.221	360.608	357.528	355.012	353.015	351.548	350.620	350.240	350.416	351.157
40.0	334.696	330.808	328.198	324.948	322.766	321.123	320.033	319.508	319.560	320.197
42.5	305.560	301.551	298.058	295.207	292.894	291.115	289.886	289.223	289.142	289.656
45.0	277.042	272.907	269.120	266.212	263.705	261.724	260.289	259.420	259.137	259.459
47.5	249.371	244.909	241.201	237.867	235.092	232.874	231.234	230.187	229.751	229.941
50.0	222.223	217.641	213.496	209.903	206.921	204.514	202.700	201.496	200.920	200.987
52.5	192.832	190.588	186.216	182.817	179.386	176.957	175.137	173.887	173.378	173.463
55.0	164.427	164.228	159.828	156.004	153.144	150.884	149.197	148.098	147.604	147.729
57.5	137.626	137.703	135.121	131.531	128.868	126.790	125.284	124.264	123.789	123.882
60.0	113.289	113.463	112.701	109.429	106.962	105.175	103.821	102.928	102.519	102.620
62.5	91.974	92.194	92.517	89.984	87.699	86.094	84.886	84.100	83.757	83.880
65.0	73.629	73.787	74.029	72.775	70.673	69.304	68.294	67.666	67.437	67.629
67.5	57.787	57.819	58.019	57.709	56.237	54.774	53.993	53.471	53.376	53.631
70.0	44.321	44.263	44.486	44.636	43.281	42.487	41.913	41.579	41.511	41.735
72.5	33.140	33.060	33.371	33.608	33.024	32.321	31.843	31.551	31.473	31.637
75.0	24.056	24.064	24.395	24.644	24.524	23.820	23.368	23.110	23.061	23.241
77.5	16.803	16.896	17.064	17.137	17.102	16.566	16.287	16.137	16.137	16.311
80.0	10.952	10.954	11.072	11.181	11.116	10.832	10.668	10.594	10.630	10.798
82.5	6.504	6.683	6.724	6.807	6.651	6.387	6.259	6.195	6.192	6.335
85.0	3.586	3.806	3.761	3.626	3.287	2.862	2.881	2.895	2.927	3.004
87.5	1.793	1.851	1.650	1.452	1.134	0.705	0.808	0.885	0.880	0.837
90.0	0.684	0.663	0.438	0.322	0.196	0.025	0.052	0.104	0.113	0.090
92.5	0.141	0.130	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.011	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

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	0.041	0.035
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.053	0.092	0.139	0.145
135.0	0.000	0.000	0.000	0.000	0.000	0.006	0.085	0.130	0.145	0.145
137.5	0.000	0.000	0.000	0.000	0.000	0.002	0.017	0.066	0.139	0.107
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.020	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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	793.566	793.740	793.969	793.740	793.566	793.449	793.388	793.384	793.436	793.545
5.0	762.761	763.118	763.582	763.118	762.761	762.513	762.374	762.344	762.424	762.614
7.5	731.833	732.363	733.050	732.363	731.833	731.459	731.244	731.186	731.287	731.547
10.0	701.215	701.912	702.808	701.912	701.215	700.718	700.422	700.327	700.434	700.743
12.5	670.376	671.205	672.276	671.205	670.376	669.791	669.558	669.350	669.494	669.882
15.0	639.287	640.301	641.600	640.301	639.287	638.561	638.125	637.981	638.130	638.573
17.5	608.222	609.411	610.923	609.411	608.222	607.435	606.823	606.616	606.848	607.194
20.0	576.367	577.688	579.379	577.688	576.367	575.416	574.836	574.629	574.795	575.333
22.5	543.258	544.684	546.532	544.684	543.258	542.254	541.673	541.515	541.779	542.465
25.0	510.510	512.088	514.119	512.088	510.510	509.386	508.718	508.506	508.750	509.452
27.5	478.313	480.215	482.430	480.215	478.476	477.216	476.436	476.136	476.317	476.979
30.0	446.577	448.406	450.741	448.406	446.751	445.254	444.436	444.120	444.305	444.987
32.5	414.920	416.792	419.196	416.792	414.920	413.579	412.765	412.473	412.699	413.436
35.0	383.469	385.352	387.796	385.352	383.469	382.143	381.367	381.135	381.442	382.279
37.5	352.469	354.358	356.830	354.358	352.469	351.157	350.416	350.240	350.620	351.548
40.0	321.431	323.269	325.720	323.269	321.431	320.197	319.560	319.508	320.033	321.123
42.5	290.779	292.523	294.899	292.523	290.779	289.760	289.142	289.223	290.031	291.115
45.0	260.402	261.985	264.222	261.985	260.402	259.459	259.137	259.420	260.289	261.724

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

47.5	230.773	232.260	234.414	232.260	230.773	229.941	229.751	230.187	231.234	232.874
50.0	201.711	203.107	205.185	203.107	201.711	200.987	200.920	201.496	202.700	204.514
52.5	174.205	175.611	177.692	175.611	174.205	173.463	173.378	173.940	175.137	176.957
55.0	148.485	149.884	151.935	149.884	148.485	147.729	147.604	148.098	149.197	150.884
57.5	124.563	125.853	127.770	125.853	124.563	123.882	123.789	124.264	125.284	126.827
60.0	103.254	104.444	106.210	104.444	103.254	102.620	102.519	102.928	103.821	105.175
62.5	84.491	85.609	87.254	85.609	84.491	83.880	83.757	84.100	84.886	86.094
65.0	68.259	69.278	70.903	69.345	68.259	67.629	67.437	67.666	68.294	69.304
67.5	54.258	55.281	56.722	55.282	54.262	53.643	53.406	53.530	53.993	54.774
70.0	42.277	43.165	44.423	43.217	42.277	41.735	41.511	41.579	41.913	42.487
72.5	32.072	32.803	33.860	32.803	32.072	31.637	31.473	31.551	31.843	32.321
75.0	23.667	24.355	25.323	24.355	23.667	23.241	23.061	23.110	23.368	23.820
77.5	16.679	17.265	18.088	17.265	16.679	16.311	16.137	16.137	16.287	16.566
80.0	11.118	11.612	12.300	11.612	11.118	10.798	10.630	10.594	10.668	10.832
82.5	6.581	6.970	7.524	6.970	6.581	6.335	6.214	6.195	6.259	6.387
85.0	3.150	3.394	3.762	3.394	3.150	3.004	2.927	2.895	2.881	2.862
87.5	0.794	0.791	0.868	0.791	0.794	0.837	0.880	0.885	0.816	0.705
90.0	0.052	0.016	0.000	0.016	0.052	0.090	0.113	0.106	0.052	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	0.035	0.041	0.000	0.003	0.000
132.5	0.078	0.000	0.000	0.000	0.078	0.145	0.139	0.092	0.053	0.000
135.0	0.145	0.103	0.000	0.103	0.145	0.145	0.145	0.130	0.085	0.006
137.5	0.047	0.000	0.000	0.000	0.047	0.107	0.139	0.066	0.017	0.002
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.020	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 : MCNL48MFA40.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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	793.710	793.932	794.210	794.543	794.932	795.375	795.872	796.423	797.025	797.679
5.0	762.913	763.337	763.840	764.467	765.201	766.042	766.988	768.039	769.193	770.447
7.5	731.965	732.541	733.275	734.165	735.211	736.411	737.764	739.268	740.920	742.720
10.0	701.252	701.963	702.873	703.983	705.290	706.793	708.490	710.539	712.458	714.724
12.5	670.644	671.380	672.489	673.836	675.418	677.233	679.279	681.553	684.452	686.786
15.0	639.311	640.345	641.673	643.295	645.210	647.417	649.915	652.685	655.595	658.763
17.5	607.979	609.149	610.541	612.316	614.419	616.848	619.602	622.721	626.168	629.939
20.0	576.242	577.522	579.170	581.185	583.565	587.334	589.351	592.740	596.484	600.580
22.5	543.571	545.095	547.035	549.388	552.150	555.248	558.632	562.452	566.561	571.098
25.0	510.609	512.226	514.284	516.797	520.265	523.185	527.050	531.344	536.061	541.196
27.5	478.121	479.742	481.838	484.408	487.491	491.129	495.238	500.008	504.850	510.348
30.0	446.163	447.829	449.979	452.609	455.803	459.523	463.736	468.436	473.997	479.445
32.5	414.679	416.420	418.652	421.376	424.693	428.502	432.798	437.607	442.917	448.890
35.0	383.638	385.512	387.889	390.787	394.218	398.137	402.532	408.372	412.921	414.245
37.5	353.015	355.012	357.528	360.608	364.221	368.326	372.912	377.997	379.222	380.867
40.0	322.766	324.948	328.198	330.918	334.696	338.976	343.746	345.633	346.156	347.187
42.5	292.894	295.262	298.058	301.551	305.560	310.068	313.612	313.293	313.780	315.186
45.0	263.705	266.212	269.268	272.907	277.042	281.652	281.521	281.661	282.206	283.146
47.5	235.092	237.867	241.201	245.051	249.371	251.318	251.212	251.080	251.558	252.615
50.0	206.921	209.903	213.496	217.641	222.330	221.669	221.485	221.658	222.153	223.160
52.5	179.386	182.817	186.216	190.588	192.832	192.626	192.804	193.234	193.890	194.974
55.0	153.144	156.004	159.828	164.228	164.427	164.565	165.101	165.793	166.696	167.911
57.5	128.868	131.531	135.121	137.703	137.626	138.018	138.799	139.635	140.776	142.119
60.0	106.962	109.429	112.701	113.463	113.289	113.794	114.519	115.221	116.547	117.872
62.5	87.699	89.984	92.517	92.194	91.974	92.385	92.841	93.332	94.532	95.566
65.0	70.673	72.775	74.029	73.787	73.629	73.918	74.059	74.417	75.156	75.630
67.5	56.237	57.709	58.019	57.819	57.787	58.027	58.072	58.356	58.599	58.818
70.0	43.281	44.636	44.486	44.368	44.321	44.460	44.346	44.631	44.659	44.738
72.5	33.024	33.608	33.371	33.060	33.140	33.147	32.987	33.112	32.948	32.837
75.0	24.524	24.644	24.395	24.064	24.056	23.899	23.739	23.653	23.248	23.008
77.5	17.102	17.137	17.064	16.896	16.803	16.480	16.260	15.985	15.572	15.080
80.0	11.116	11.181	11.072	10.954	10.952	10.688	10.419	9.878	9.377	9.809
82.5	6.651	6.807	6.753	6.683	6.504	6.040	5.840	5.282	4.929	5.841
85.0	3.287	3.626	3.761	3.806	3.586	3.145	2.623	1.791	2.374	3.212
87.5	1.134	1.452	1.650	1.862	1.793	1.482	0.838	0.343	0.751	1.347
90.0	0.196	0.322	0.438	0.663	0.684	0.548	0.073	0.046	0.100	0.392
92.5	0.000	0.000	0.046	0.130	0.141	0.115	0.000	0.000	0.005	0.053
95.0	0.000	0.000	0.000	0.000	0.011	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 : MCNL48MFA40.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. 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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	798.383	799.190	799.936	800.783	801.674	802.609	803.585	804.601	805.656	806.746
5.0	771.802	773.253	774.799	776.438	778.167	779.984	781.885	783.868	785.936	788.079
7.5	744.664	746.749	749.948	751.347	753.861	756.508	759.282	762.181	765.199	768.332
10.0	717.184	719.869	722.735	725.779	728.998	732.387	735.941	739.656	743.547	747.629
12.5	689.745	692.925	696.322	699.932	703.750	708.342	712.075	716.587	721.293	726.187
15.0	662.184	665.854	669.769	673.924	678.461	683.031	687.946	693.090	698.457	704.117
17.5	634.030	638.437	643.139	647.843	652.812	658.041	663.523	669.287	675.370	681.702
20.0	605.024	609.823	615.045	620.613	626.521	632.764	638.994	645.352	651.977	658.514
22.5	576.007	581.227	586.819	592.779	599.100	605.894	612.274	617.777	623.696	629.803
25.0	546.558	552.262	558.358	564.839	569.913	574.522	579.687	585.453	591.925	598.954
27.5	516.295	522.674	528.120	531.908	536.180	541.065	546.553	552.619	559.289	566.600
30.0	485.758	489.334	492.759	496.821	501.501	506.975	512.551	518.965	526.032	533.721
32.5	451.041	453.742	457.223	461.352	466.074	471.522	477.675	484.474	491.881	499.984
35.0	416.674	418.709	422.080	426.027	430.996	436.174	442.290	449.223	456.962	465.379
37.5	382.044	384.526	387.614	391.250	395.865	401.118	407.065	414.020	421.595	430.209
40.0	348.783	351.090	353.941	357.477	361.794	366.655	372.553	379.147	386.595	395.043
42.5	316.270	318.405	321.016	324.465	328.500	333.212	339.239	344.861	352.232	360.173
45.0	284.677	286.612	289.072	292.289	295.956	300.552	305.764	311.774	318.558	326.199
47.5	254.038	255.886	258.295	261.161	264.543	268.795	273.484	279.349	286.714	293.101
50.0	224.536	226.216	228.596	231.242	234.486	238.180	242.589	247.802	253.722	260.438
52.5	196.305	198.016	200.317	202.521	205.622	209.779	213.024	217.345	222.737	228.956
55.0	169.243	170.995	172.998	175.345	178.060	181.128	184.727	188.590	193.142	198.410
57.5	143.501	145.275	147.065	149.368	151.856	154.763	157.736	161.296	165.083	169.818
60.0	119.325	121.039	122.732	124.819	126.940	129.857	132.553	135.612	138.838	142.756
62.5	97.019	98.504	100.129	101.918	104.365	106.797	109.263	111.728	114.513	117.602
65.0	76.958	77.984	79.480	81.457	83.926	85.914	88.098	89.881	92.113	94.318
67.5	59.480	59.914	61.557	63.652	65.836	67.503	69.165	70.892	71.834	73.436
70.0	44.725	45.021	46.809	48.635	50.260	51.669	52.543	53.572	54.101	54.815
72.5	32.503	33.609	34.853	36.328	37.332	38.342	38.754	38.984	39.205	38.560
75.0	22.977	24.567	25.593	26.543	27.062	27.465	27.537	26.963	26.323	25.125
77.5	16.246	17.418	18.331	18.939	19.219	19.100	18.600	17.642	16.201	14.372

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

80.0	11.008	11.932	12.730	13.103	13.197	12.713	11.754	10.451	8.467	6.031
82.5	6.975	7.774	8.469	8.754	8.673	8.121	6.863	5.170	2.851	2.121
85.0	4.033	4.716	5.278	5.548	5.379	4.790	3.565	1.586	0.301	0.814
87.5	2.033	2.620	2.981	3.222	3.063	2.450	1.279	0.000	0.000	0.213
90.0	0.657	1.206	1.531	1.640	1.489	0.907	0.000	0.000	0.000	0.000
92.5	0.165	0.364	0.611	0.694	0.529	0.000	0.000	0.000	0.000	0.000
95.0	0.023	0.044	0.158	0.198	0.039	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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	807.871	809.028	810.215	811.429	812.670	813.933	815.218	816.520	818.508	819.168
5.0	790.295	792.578	794.926	797.334	799.798	802.313	804.875	807.478	810.119	812.794
7.5	771.576	774.924	778.383	781.994	785.616	789.361	793.183	797.075	801.030	805.041
10.0	751.861	756.237	760.750	765.393	770.697	775.100	780.156	785.315	790.567	795.902
12.5	731.263	736.540	742.070	747.769	753.627	759.638	765.813	772.208	778.729	785.452
15.0	710.050	716.193	722.538	729.092	735.993	743.083	750.350	758.345	765.531	773.438
17.5	688.276	695.118	702.337	709.784	717.280	724.633	732.434	740.531	750.141	757.710
20.0	664.484	670.915	677.770	685.102	692.957	701.195	709.818	719.039	728.600	739.369
22.5	636.080	643.035	650.620	658.710	667.271	676.418	686.033	697.388	706.743	717.834
25.0	606.474	614.063	622.219	630.962	640.368	650.299	660.803	671.861	683.384	695.594

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES**

CANDELA TABULATION - (Cont.)

27.5	574.721	583.444	592.569	602.009	612.065	622.830	634.405	646.170	658.730	673.237
30.0	542.056	551.158	561.085	573.069	582.498	593.973	606.168	619.052	632.558	646.671
32.5	508.773	518.234	528.376	539.518	551.387	563.762	576.725	590.433	604.886	619.990
35.0	474.572	484.501	495.144	506.572	518.787	532.001	545.864	560.375	575.663	591.320
37.5	439.626	450.176	460.965	472.830	485.442	498.923	513.367	528.224	543.680	559.798
40.0	404.245	414.697	425.884	438.208	451.175	464.722	479.016	494.444	510.526	527.242
42.5	369.360	379.317	390.567	402.631	415.757	429.660	444.811	459.781	476.396	493.678
45.0	334.915	344.446	355.200	367.025	380.061	394.076	409.006	424.805	441.380	459.153
47.5	301.843	310.160	320.155	331.821	344.337	358.323	373.224	389.151	406.025	423.737
50.0	267.968	276.440	286.143	296.900	309.214	322.457	337.361	353.137	370.018	387.936
52.5	235.781	243.594	252.746	262.865	274.395	287.335	302.387	317.102	333.731	351.513
55.0	204.599	211.910	220.098	229.746	240.282	252.552	266.123	280.972	297.461	315.314
57.5	174.918	181.448	188.768	197.413	207.388	218.338	231.305	245.505	261.107	278.334
60.0	147.298	152.449	159.004	166.291	175.338	185.606	197.403	210.575	226.628	249.171
62.5	121.233	125.499	130.768	137.184	144.406	154.323	164.329	180.572	200.111	221.947
65.0	96.929	100.415	104.336	109.652	115.903	123.884	137.383	155.165	174.213	195.385
67.5	74.906	77.249	80.200	84.407	89.010	100.566	115.343	132.191	150.144	170.660
70.0	55.547	56.766	58.136	60.486	69.396	81.537	95.119	110.428	127.388	145.471
72.5	38.527	38.301	38.363	44.680	53.130	63.519	76.011	90.028	105.819	122.858
75.0	23.903	22.815	26.272	31.823	38.871	47.241	57.926	70.857	85.214	101.428
77.5	11.920	13.986	17.744	21.477	26.615	33.333	41.620	52.556	65.737	80.587
80.0	6.282	8.344	11.302	14.200	16.963	21.630	28.002	36.201	47.342	60.842
82.5	3.475	4.984	6.625	8.846	10.893	12.650	16.795	22.815	30.918	42.214
85.0	1.661	2.721	3.847	5.095	6.543	7.735	8.469	12.049	17.713	25.699
87.5	0.582	1.269	2.055	2.818	3.574	4.329	4.655	4.364	7.345	12.639
90.0	0.149	0.410	0.923	1.438	1.853	2.132	2.157	1.606	0.289	7.345
92.5	0.000	0.102	0.275	0.605	0.853	0.920	0.708	0.000	1.606	4.358
95.0	0.000	0.000	0.065	0.160	0.298	0.281	0.000	0.712	2.157	4.642
97.5	0.000	0.000	0.000	0.032	0.052	0.000	0.290	0.928	2.132	4.304
100.0	0.000	0.000	0.000	0.000	0.001	0.057	0.308	0.864	1.853	3.542
102.5	0.000	0.000	0.000	0.000	0.000	0.036	0.172	0.617	1.438	2.766
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.073	0.291	0.923	2.001
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.111	0.408	1.221
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.149	0.518
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.183
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	1.051
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.110	0.907	2.176
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.185	0.662	1.489	2.717
127.5	0.000	0.000	0.000	0.000	0.011	0.091	0.363	0.858	1.640	2.837
130.0	0.000	0.000	0.000	0.001	0.013	0.091	0.276	0.786	1.531	2.589
132.5	0.000	0.000	0.000	0.000	0.005	0.033	0.189	0.474	1.206	2.169
135.0	0.000	0.000	0.000	0.000	0.000	0.014	0.056	0.293	0.657	1.592
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.079	0.392	0.838
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.100	0.471
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.046	0.118
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.073	0.453
147.5	0.000	0.000	0.000	0.000	0.000	0.022	0.103	0.258	0.548	0.970
150.0	0.000	0.000	0.000	0.000	0.006	0.064	0.142	0.375	0.684	1.175
152.5	0.000	0.000	0.000	0.000	0.000	0.040	0.147	0.289	0.663	1.084
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.092	0.237	0.438	0.911
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.148	0.322	0.543
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.196	0.388
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.222
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.031	0.052	0.092

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.062	0.104	0.152
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.113	0.171
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.090	0.150
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052	0.104
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.048
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>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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	820.503	821.847	823.197	824.549	825.902	827.253	828.599	829.937	831.264	832.579
5.0	815.474	818.178	820.899	823.631	826.368	829.105	831.836	834.556	837.259	839.939
7.5	809.086	813.157	817.260	821.387	825.531	829.681	833.831	838.925	842.169	846.362
10.0	801.354	806.745	812.231	817.761	823.322	828.903	834.529	840.282	846.016	851.719
12.5	792.110	798.918	805.776	812.702	819.680	827.691	833.948	841.331	848.523	855.779
15.0	781.484	789.875	797.866	806.171	814.556	823.038	831.860	840.709	849.566	858.430
17.5	766.777	776.070	785.548	795.309	805.010	815.014	825.426	835.941	846.536	857.261
20.0	748.804	759.407	770.993	781.377	792.708	804.342	816.181	828.272	840.489	852.915
22.5	729.298	741.173	753.358	765.865	778.693	791.887	805.189	818.831	832.659	846.758
25.0	708.272	721.358	734.818	748.623	762.895	777.498	792.393	807.543	822.923	838.668
27.5	685.730	699.937	714.646	729.723	745.263	761.343	777.971	794.354	812.359	828.546
30.0	661.343	676.831	692.827	709.131	725.844	743.261	761.168	779.227	797.523	816.310
32.5	635.696	652.051	669.210	686.400	703.912	722.106	741.182	760.679	780.434	800.749
35.0	607.380	624.026	641.431	659.689	678.523	697.961	718.292	739.357	760.756	782.660
37.5	576.589	594.431	612.140	631.204	651.517	671.794	693.214	715.649	738.650	762.128
40.0	544.639	562.721	581.549	601.115	621.896	643.507	666.121	689.637	714.039	739.005
42.5	511.632	530.283	549.619	569.854	590.924	613.388	636.834	661.371	686.927	713.255
45.0	477.606	496.761	516.626	537.823	558.821	581.908	605.529	630.932	657.408	684.872
47.5	442.628	462.212	482.517	503.541	525.330	548.299	572.633	599.055	629.551	660.634
50.0	406.760	426.713	447.379	468.768	490.879	516.354	544.499	574.051	604.539	636.064
52.5	370.446	390.335	411.280	435.581	462.467	489.928	518.307	547.578	578.226	609.902
55.0	333.526	354.916	380.909	407.576	434.798	462.541	490.904	520.348	550.732	582.179
57.5	301.265	326.256	352.310	378.954	406.228	434.190	462.713	492.650	522.236	553.544
60.0	273.102	297.805	323.350	349.982	377.177	404.945	433.550	462.760	492.679	523.712
62.5	246.378	269.430	294.661	320.778	347.745	375.383	403.599	432.659	462.445	493.001
65.0	217.687	241.286	266.000	291.664	318.081	345.406	373.366	401.920	431.288	461.519
67.5	191.003	213.702	237.468	262.645	288.634	315.330	342.771	370.920	400.689	436.458
70.0	165.639	186.829	209.838	233.864	259.197	285.390	312.220	341.921	375.029	408.587
72.5	141.019	160.579	182.720	205.937	230.112	255.481	284.961	316.763	349.118	382.171
75.0	118.484	136.662	156.251	178.532	201.843	229.942	260.271	291.492	323.274	355.513
77.5	97.161	114.151	132.270	151.840	178.467	206.773	235.988	266.255	297.373	328.925
80.0	76.050	92.918	109.750	132.275	156.846	184.052	212.319	241.432	271.512	302.338
82.5	55.996	71.500	92.960	114.445	137.450	162.090	189.159	217.241	246.096	275.864
85.0	37.099	56.024	76.237	97.564	119.182	142.248	166.807	193.635	221.373	249.807
87.5	25.711	42.265	60.990	80.884	101.884	123.541	146.527	170.849	197.334	224.554
90.0	17.713	30.918	47.342	65.737	85.214	105.732	127.388	150.144	174.213	200.111
92.5	12.022	22.714	35.967	52.210	70.179	89.130	109.275	130.589	152.958	176.713
95.0	8.424	16.630	27.568	40.779	56.790	74.234	92.543	112.170	133.008	159.896
97.5	7.647	12.482	21.107	32.204	45.277	61.008	77.832	95.373	118.343	147.085
100.0	6.419	10.574	16.267	25.381	36.547	49.628	64.793	83.623	108.302	135.593
102.5	4.924	8.459	13.353	19.930	29.364	40.519	55.171	77.109	100.409	125.317
105.0	3.644	6.246	10.311	15.894	23.283	34.189	51.649	71.437	93.203	116.184
107.5	2.536	4.451	7.468	12.066	19.050	32.951	48.991	66.685	86.779	108.250
110.0	1.499	3.021	5.147	9.424	19.727	31.919	46.571	62.928	80.993	101.017
112.5	0.603	1.739	4.347	11.155	20.249	31.265	44.191	59.292	75.807	94.219

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

115.0	0.207	1.671	6.498	12.741	20.507	30.439	42.002	55.610	70.916	87.562
117.5	1.092	3.976	7.977	13.604	20.624	29.282	39.807	51.743	65.885	81.231
120.0	2.898	5.548	9.170	13.877	20.232	27.825	37.243	48.151	60.630	74.799
122.5	3.997	6.498	9.779	14.017	19.400	26.229	34.267	44.195	55.255	68.148
125.0	4.474	6.799	9.770	13.679	18.286	24.349	31.431	39.962	49.933	61.251
127.5	4.442	6.638	9.375	12.810	17.133	22.242	28.579	35.666	44.559	54.245
130.0	4.104	6.103	8.597	11.634	15.461	20.017	25.512	31.938	39.279	48.802
132.5	3.469	5.233	7.453	10.275	13.580	17.619	22.196	27.977	35.452	44.281
135.0	2.732	4.239	6.163	8.621	11.588	15.033	19.438	25.430	32.346	39.999
137.5	1.912	3.174	4.851	6.825	9.468	13.229	17.979	23.185	29.297	35.769
140.0	0.967	2.129	3.527	5.689	8.714	12.326	16.359	21.120	26.275	32.117
142.5	0.515	1.444	3.313	5.575	8.285	11.325	14.890	18.979	23.406	28.554
145.0	1.028	2.054	3.426	5.318	7.733	10.417	13.540	17.024	20.866	25.114
147.5	1.598	2.419	3.575	5.139	6.939	9.449	12.106	15.149	18.438	21.932
150.0	1.799	2.608	3.625	4.807	6.508	8.339	10.645	13.313	16.267	19.292
152.5	1.721	2.504	3.414	4.575	5.837	7.455	9.342	11.333	13.866	16.580
155.0	1.423	2.128	3.026	3.990	5.199	6.534	8.069	9.795	11.764	13.810
157.5	1.088	1.661	2.333	3.303	4.322	5.427	6.786	8.203	9.680	11.525
160.0	0.598	1.152	1.759	2.385	3.275	4.309	5.379	6.523	7.873	9.216
162.5	0.422	0.626	1.064	1.708	2.372	3.046	3.992	5.000	6.005	7.007
165.0	0.335	0.586	0.858	1.160	1.727	2.343	2.965	3.592	4.334	5.221
167.5	0.202	0.425	0.702	0.987	1.281	1.584	2.077	2.621	3.182	3.735
170.0	0.231	0.293	0.378	0.650	0.926	1.205	1.485	1.777	2.070	2.476
172.5	0.211	0.273	0.335	0.399	0.463	0.633	0.875	1.117	1.360	1.603
175.0	0.156	0.208	0.260	0.312	0.364	0.417	0.470	0.523	0.575	0.636
177.5	0.080	0.111	0.143	0.175	0.206	0.237	0.268	0.298	0.329	0.359
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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	833.877	835.158	836.417	837.653	838.863	840.045	841.317	842.313	843.394	844.438
5.0	842.591	845.215	847.843	850.425	852.952	855.421	857.825	860.159	862.418	864.596
7.5	850.516	854.619	858.662	862.637	866.533	870.341	874.063	877.781	881.490	884.858
10.0	857.376	862.974	868.522	874.096	879.572	884.936	890.175	895.276	900.224	904.993
12.5	863.009	870.288	877.493	884.605	891.606	898.462	904.964	911.295	917.437	923.370
15.0	867.339	876.199	884.987	893.648	902.009	910.222	918.262	926.105	933.586	940.805
17.5	868.036	878.810	889.491	899.999	910.397	920.650	930.152	939.292	948.224	957.356
20.0	865.402	877.912	890.350	902.730	914.960	926.606	938.089	950.241	960.004	970.315
22.5	860.960	875.265	889.621	903.949	917.625	931.116	944.384	957.040	969.441	981.388
25.0	854.566	870.748	887.061	903.100	918.570	934.952	948.765	963.339	977.415	990.860
27.5	846.097	864.147	882.429	900.176	917.545	934.669	951.393	967.861	983.643	1000.396
30.0	835.451	855.270	875.498	895.042	914.301	933.221	951.949	970.215	988.125	1005.259
32.5	821.634	843.145	865.212	886.797	908.172	929.124	949.990	970.094	990.044	1008.772
35.0	805.279	828.446	852.268	875.918	899.346	922.361	945.349	967.219	988.800	1009.311
37.5	786.309	811.107	836.548	862.193	887.573	912.681	938.927	961.375	984.644	1006.829
40.0	764.645	791.025	817.975	846.945	872.642	899.863	926.712	952.345	977.385	1001.068
42.5	740.271	768.274	796.519	825.346	854.425	884.825	914.106	942.397	969.752	995.082
45.0	713.792	744.915	776.445	808.117	839.920	871.431	902.254	932.397	960.832	987.810
47.5	692.111	724.144	756.597	789.417	822.249	854.900	887.253	918.618	948.453	977.154
50.0	668.263	700.970	735.663	767.800	801.583	835.455	868.702	901.193	932.821	962.793
52.5	642.379	675.576	709.331	743.543	778.114	812.645	846.923	880.747	913.231	944.669
55.0	614.852	648.191	682.172	716.813	751.788	786.991	822.367	857.560	891.615	924.336
57.5	585.736	619.079	653.121	687.763	723.362	760.542	797.112	832.956	867.280	900.243
60.0	555.732	588.557	622.253	659.258	696.523	733.563	770.063	805.740	840.470	873.874

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

62.5	524.498	558.558	594.938	631.610	668.534	705.199	741.403	776.944	811.461	844.865
65.0	496.072	531.364	567.207	603.312	639.552	675.758	711.527	746.633	780.934	814.041
67.5	469.370	504.123	539.003	574.325	609.901	645.434	680.682	715.284	749.043	784.276
70.0	442.453	476.597	510.829	545.080	579.681	614.462	649.031	683.093	719.387	756.902
72.5	415.516	448.984	482.410	515.990	549.377	583.064	616.778	653.667	692.398	729.509
75.0	388.332	421.275	454.160	486.871	519.425	551.707	587.979	627.189	666.584	702.080
77.5	360.903	393.309	425.671	458.148	489.572	524.354	562.859	601.214	638.565	674.723
80.0	333.516	365.086	396.904	428.531	462.522	500.858	538.590	575.749	612.330	648.310
82.5	306.229	336.853	367.872	400.884	439.419	477.098	514.511	550.878	586.601	621.165
85.0	279.138	308.875	339.779	378.167	416.138	453.576	490.315	526.220	561.267	595.415
87.5	252.399	281.171	318.401	356.516	392.929	429.665	465.935	501.392	535.939	569.590
90.0	226.628	261.107	297.461	333.731	370.018	406.025	441.380	476.396	510.525	543.680
92.5	208.009	242.177	277.111	312.339	347.449	382.698	417.386	451.469	484.912	517.676
95.0	191.813	224.559	257.627	291.688	325.622	359.702	393.578	426.998	459.726	491.330
97.5	177.268	208.163	239.801	272.046	304.736	338.474	370.201	402.590	434.764	465.609
100.0	163.624	192.974	223.221	253.629	284.991	316.171	347.643	378.857	409.871	440.044
102.5	151.734	178.930	207.754	236.874	266.469	296.353	326.255	356.257	385.765	415.075
105.0	140.953	166.617	193.333	221.071	248.830	277.750	306.661	334.730	362.823	391.062
107.5	131.105	155.319	180.092	206.319	232.807	260.111	287.256	314.302	341.107	368.083
110.0	122.084	144.800	168.257	192.592	217.652	243.266	268.981	294.796	320.518	346.134
112.5	113.966	134.853	156.995	179.751	203.436	227.174	251.599	275.988	300.625	325.084
115.0	106.039	125.057	146.182	167.528	189.767	212.154	235.105	258.026	281.493	304.713
117.5	98.131	116.242	135.539	155.713	176.425	197.626	219.240	241.033	263.089	285.020
120.0	90.163	107.018	124.703	143.903	163.425	183.481	203.723	224.344	245.166	265.964
122.5	82.132	97.617	114.442	132.315	150.585	169.525	188.571	208.022	227.519	247.138
125.0	74.041	88.529	104.395	120.921	138.070	155.705	173.618	191.913	210.216	228.490
127.5	66.519	79.599	94.495	109.567	125.598	141.964	158.771	175.490	193.469	210.439
130.0	59.588	71.790	84.846	98.558	113.223	128.884	143.874	159.764	175.837	192.114
132.5	53.726	64.384	75.642	88.078	101.128	114.694	129.043	143.575	158.473	173.581
135.0	48.402	57.603	67.363	78.339	89.614	101.853	114.596	127.929	141.193	154.980
137.5	43.383	51.334	60.099	69.410	79.129	89.936	100.942	112.390	124.534	136.739
140.0	38.551	45.419	53.182	61.193	69.865	79.026	88.368	98.493	108.678	119.489
142.5	33.931	40.081	46.622	53.462	61.131	68.969	77.065	85.827	94.682	103.300
145.0	29.684	35.038	40.457	46.516	52.955	59.538	66.667	74.116	81.634	87.345
147.5	26.073	30.338	34.927	40.098	45.386	50.750	57.045	63.258	68.115	73.128
150.0	22.624	26.066	30.132	34.280	38.503	43.304	48.134	52.186	56.158	60.538
152.5	19.379	22.507	25.672	29.086	32.699	36.229	39.472	42.658	46.089	49.624
155.0	16.286	18.940	21.649	24.338	26.961	29.552	32.106	34.710	37.552	40.321
157.5	13.479	15.360	17.245	19.425	21.564	23.661	25.748	27.973	30.192	32.357
160.0	10.552	11.967	13.617	15.233	16.827	18.568	20.200	21.999	23.748	25.442
162.5	8.143	9.335	10.515	11.682	12.887	14.212	15.576	16.910	18.211	19.478
165.0	6.102	6.975	7.841	8.747	9.752	10.739	11.708	12.656	13.581	14.555
167.5	4.289	4.863	5.603	6.332	7.049	7.753	8.443	9.119	9.790	10.543
170.0	2.938	3.396	3.851	4.302	4.747	5.187	5.690	6.141	6.672	7.187
172.5	1.847	2.090	2.334	2.577	2.851	3.188	3.517	3.839	4.152	4.456
175.0	0.786	0.960	1.132	1.302	1.470	1.628	1.795	1.953	2.107	2.257
177.5	0.388	0.418	0.446	0.475	0.502	0.530	0.554	0.582	0.607	0.631
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	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211	824.211
2.5	845.441	846.403	847.320	848.192	849.016	849.790	850.513	851.184	852.877	853.111
5.0	866.689	868.692	870.600	872.410	874.117	875.717	877.207	878.584	879.844	880.985
7.5	888.201	891.402	894.452	897.345	900.072	902.627	905.003	907.194	909.195	911.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

10.0	909.398	913.624	917.648	921.460	925.048	928.403	931.516	934.378	936.982	939.323
12.5	929.077	934.535	939.689	944.585	949.207	953.539	957.566	961.276	964.656	967.693
15.0	947.784	954.497	960.922	966.913	972.471	977.690	982.549	987.029	991.150	994.786
17.5	965.023	972.824	980.312	987.457	994.128	1000.132	1005.720	1010.865	1015.547	1019.746
20.0	980.290	989.460	997.900	1005.956	1013.591	1020.761	1027.444	1033.641	1039.317	1044.434
22.5	992.573	1003.325	1013.560	1023.086	1032.039	1040.493	1048.325	1055.357	1061.840	1067.727
25.0	1003.899	1016.150	1027.840	1039.582	1048.850	1058.075	1066.742	1074.586	1081.363	1087.552
27.5	1013.643	1027.694	1040.732	1052.750	1064.182	1073.798	1082.480	1090.301	1097.298	1104.057
30.0	1021.705	1037.112	1051.437	1064.860	1076.658	1087.706	1096.885	1105.021	1112.114	1118.231
32.5	1027.136	1043.858	1060.047	1074.420	1087.940	1099.463	1110.717	1119.039	1127.023	1133.653
35.0	1028.852	1047.366	1064.563	1081.073	1095.680	1109.602	1121.315	1131.744	1140.335	1147.666
37.5	1027.727	1047.932	1066.426	1084.165	1100.520	1115.201	1129.686	1140.536	1151.694	1160.142
40.0	1023.466	1045.065	1065.169	1084.277	1102.731	1118.227	1132.663	1145.457	1156.349	1166.466
42.5	1019.346	1042.563	1063.921	1084.167	1103.300	1120.040	1134.911	1148.154	1158.820	1167.879
45.0	1013.698	1038.029	1060.648	1082.036	1101.960	1119.588	1135.579	1149.913	1161.591	1171.589
47.5	1004.379	1029.726	1053.806	1076.496	1096.668	1115.163	1131.883	1146.160	1157.828	1167.699
50.0	990.939	1017.828	1043.628	1065.520	1086.310	1105.547	1122.478	1136.965	1149.358	1159.760
52.5	974.439	1001.949	1027.260	1050.814	1072.506	1091.792	1109.446	1126.615	1139.610	1152.232
55.0	954.408	982.671	1009.120	1032.835	1054.679	1074.931	1095.009	1112.572	1127.748	1140.288
57.5	931.714	960.625	987.278	1012.056	1035.697	1058.492	1079.378	1097.147	1112.683	1124.641
60.0	905.532	935.492	962.992	990.740	1016.759	1039.893	1060.812	1079.489	1094.837	1106.720
62.5	877.023	907.856	939.604	968.422	994.670	1019.618	1040.035	1059.239	1074.439	1087.406
65.0	847.612	882.196	914.103	943.724	970.326	994.798	1016.823	1035.854	1052.047	1066.106
67.5	820.547	855.136	887.132	916.934	944.130	968.691	990.957	1010.316	1027.350	1041.922
70.0	792.770	826.926	859.452	889.230	916.715	941.359	963.780	983.500	1000.969	1015.973
72.5	766.399	798.459	830.279	860.554	888.505	913.158	935.698	955.850	973.924	989.481
75.0	737.162	770.279	801.587	831.018	858.491	883.893	906.772	927.303	946.780	962.013
77.5	709.418	742.510	773.499	803.179	828.599	853.341	876.505	897.697	916.773	933.166
80.0	682.058	714.578	745.649	773.487	799.170	823.356	846.137	867.234	886.557	902.615
82.5	655.185	687.489	717.244	744.278	769.852	793.735	816.078	836.849	856.044	871.070
85.0	628.449	660.472	688.898	715.546	740.692	764.382	786.487	806.895	825.808	839.673
87.5	602.227	632.523	660.513	686.914	711.928	735.399	757.389	777.873	795.742	809.029
90.0	575.663	604.886	632.558	658.730	683.384	706.743	728.600	750.141	765.531	778.574
92.5	548.569	577.593	605.129	631.191	655.717	678.859	700.521	720.712	735.597	748.586
95.0	521.633	550.739	578.272	604.212	628.678	651.769	673.386	693.050	706.538	718.943
97.5	495.234	524.661	551.262	577.580	602.072	625.443	647.098	664.980	677.893	689.800
100.0	469.381	497.581	524.600	550.436	575.231	598.867	621.239	637.266	649.598	661.008
102.5	443.789	471.617	498.418	524.081	548.566	571.881	594.031	607.774	620.232	631.631
105.0	418.700	445.887	472.335	497.837	522.169	545.386	565.414	578.452	590.516	601.596
107.5	394.514	420.809	446.445	471.353	495.513	518.713	537.494	548.940	560.718	571.561
110.0	371.363	396.585	421.194	445.288	468.826	491.553	506.080	518.484	530.099	540.784
112.5	349.288	373.298	396.785	419.948	442.603	462.846	475.685	487.813	499.047	509.191
115.0	327.893	350.822	373.276	395.464	417.122	433.757	446.026	457.638	468.400	478.290
117.5	307.120	328.959	350.433	371.679	392.384	405.445	417.095	428.117	438.370	447.829
120.0	286.879	307.568	328.041	348.308	366.092	377.713	388.756	399.162	408.863	417.828
122.5	266.900	286.497	305.945	325.161	339.217	350.216	360.679	370.464	379.703	388.180
125.0	247.169	265.515	283.868	301.566	312.546	323.644	332.884	342.170	350.811	358.783
127.5	227.738	245.492	262.105	275.838	286.069	295.818	305.174	313.944	322.102	329.545
130.0	208.362	224.545	240.598	250.608	260.117	269.206	277.885	286.024	293.596	300.575
132.5	188.690	203.803	216.191	225.432	234.489	242.960	250.978	258.495	265.485	271.921
135.0	168.790	182.361	191.709	200.506	208.733	216.790	224.264	231.234	237.677	243.575
137.5	148.990	159.138	167.672	175.778	184.189	190.834	197.788	204.252	210.210	215.643
140.0	129.218	137.194	144.812	151.984	158.951	165.765	172.123	178.013	183.423	188.340
142.5	110.251	117.136	123.744	130.060	136.218	142.290	147.964	153.228	158.071	162.482
145.0	93.352	99.148	104.720	110.054	115.441	120.709	125.652	130.256	134.508	138.396
147.5	78.209	83.085	87.801	92.520	96.943	101.369	105.527	109.406	112.992	116.277

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

CANDELA TABULATION - (Cont.)

150.0	64.761	68.825	72.721	76.550	80.474	84.179	87.656	90.897	93.891	96.630
152.5	53.045	56.343	59.513	62.790	66.026	69.079	71.943	74.610	77.076	79.331
155.0	43.012	45.619	48.170	50.919	53.532	56.004	58.327	60.497	62.507	64.352
157.5	34.464	36.507	38.644	40.795	42.847	44.794	46.632	48.354	49.955	51.430
160.0	27.080	28.707	30.440	32.101	33.687	35.194	36.602	37.949	39.188	40.330
162.5	20.742	22.085	23.385	24.679	25.882	27.018	28.086	29.082	30.005	30.851
165.0	15.517	16.532	17.507	18.441	19.330	20.173	20.967	21.711	22.402	23.038
167.5	11.272	11.975	12.648	13.297	13.914	14.499	15.050	15.567	16.047	16.490
170.0	7.684	8.164	8.624	9.064	9.484	9.881	10.255	10.604	10.929	11.228
172.5	4.751	5.036	5.310	5.573	5.824	6.062	6.287	6.498	6.684	6.875
175.0	2.402	2.543	2.678	2.808	2.932	3.050	3.161	3.265	3.362	3.450
177.5	0.655	0.678	0.699	0.720	0.740	0.758	0.776	0.792	0.834	0.840
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	824.211	824.211	824.211	824.211	824.211
2.5	853.347	853.586	853.826	854.067	854.309
5.0	883.031	883.479	883.931	884.386	884.841
7.5	912.606	914.967	915.629	916.296	916.964
10.0	941.394	943.191	945.276	946.095	946.917
12.5	970.378	972.703	975.421	976.433	977.449
15.0	998.031	1000.837	1004.202	1005.327	1006.533
17.5	1023.444	1026.628	1029.288	1031.685	1033.013
20.0	1048.962	1052.871	1056.134	1059.079	1060.651
22.5	1072.970	1077.524	1081.350	1084.819	1086.697
25.0	1093.099	1097.954	1102.072	1105.827	1107.968
27.5	1110.242	1115.773	1120.630	1125.013	1127.647
30.0	1125.282	1131.393	1136.511	1141.110	1143.709
32.5	1138.527	1145.123	1151.107	1156.767	1160.060
35.0	1152.852	1156.314	1162.881	1168.731	1173.372
37.5	1166.277	1169.405	1171.613	1178.672	1184.514
40.0	1174.428	1180.755	1182.585	1185.109	1193.341
42.5	1175.916	1183.298	1190.197	1191.293	1196.814
45.0	1180.127	1186.789	1191.302	1194.227	1195.511
47.5	1175.652	1181.301	1188.879	1192.176	1196.814
50.0	1169.849	1178.818	1183.276	1183.549	1193.341
52.5	1163.056	1169.547	1171.704	1176.864	1184.514
55.0	1150.755	1155.525	1158.475	1166.743	1173.372
57.5	1133.707	1139.927	1146.080	1153.917	1160.060
60.0	1115.885	1122.809	1131.098	1138.324	1143.709
62.5	1097.114	1105.029	1114.097	1121.697	1127.647
65.0	1076.855	1086.463	1095.308	1102.498	1107.968
67.5	1053.900	1064.633	1073.806	1082.167	1086.697
70.0	1028.650	1039.301	1048.243	1056.334	1060.651
72.5	1002.209	1012.547	1021.127	1028.802	1033.013
75.0	974.623	985.181	994.038	1002.036	1006.533
77.5	945.374	955.947	964.833	972.868	977.449
80.0	914.920	925.485	934.319	942.257	946.917
82.5	883.577	894.376	903.546	911.889	916.964
85.0	851.839	862.423	871.434	879.637	884.841
87.5	820.919	831.393	840.445	848.773	854.309
90.0	790.567	801.030	810.119	818.508	824.211
92.5	760.207	770.566	779.649	788.090	793.969
95.0	730.228	740.358	749.307	757.668	763.582

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES**

CANDELA TABULATION - (Cont.)

97.5	700.487	710.447	719.122	727.246	733.050
100.0	671.454	680.892	689.287	697.166	702.808
102.5	641.954	651.186	659.319	666.900	672.276
105.0	611.670	620.720	628.730	636.222	641.600
107.5	581.443	590.339	598.228	605.618	610.923
110.0	550.510	559.253	566.991	574.230	579.379
112.5	518.650	527.120	534.592	541.564	546.532
115.0	487.291	495.387	502.564	509.103	514.119
117.5	456.470	464.270	471.208	477.720	482.430
120.0	426.032	433.449	440.054	446.259	450.741
122.5	395.932	402.932	409.158	415.003	419.196
125.0	366.061	372.623	378.446	383.905	387.796
127.5	336.479	342.650	348.113	353.228	356.830
130.0	306.937	312.656	317.707	322.432	325.720
132.5	277.776	283.026	287.646	291.957	294.899
135.0	248.908	253.656	257.802	261.653	264.222
137.5	220.537	224.876	228.644	232.131	234.414
140.0	192.754	196.655	201.121	203.152	205.185
142.5	166.449	169.963	173.982	175.836	177.692
145.0	141.907	145.027	148.603	150.268	151.935
147.5	119.247	121.892	124.922	126.345	127.770
150.0	99.106	101.310	103.831	105.020	106.210
152.5	81.371	83.189	85.196	86.258	87.254
155.0	66.026	67.523	69.226	70.064	70.903
157.5	52.773	53.979	55.351	56.036	56.722
160.0	41.370	42.304	43.368	43.895	44.423
162.5	31.619	32.306	33.086	33.473	33.860
165.0	23.617	24.137	24.727	25.025	25.323
167.5	16.893	17.458	17.667	17.878	18.088
170.0	11.500	11.882	12.021	12.160	12.300
172.5	7.039	7.271	7.355	7.439	7.524
175.0	3.609	3.647	3.685	3.724	3.762
177.5	0.845	0.851	0.857	0.862	0.868
180.0	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48MFA40.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	301.07	N.A.	8.40
0-30	644.88	N.A.	18.00
0-40	1068.16	N.A.	29.80
0-60	1958.23	N.A.	54.60
0-80	2666.75	N.A.	74.30
0-90	2929.12	N.A.	81.70
10-90	2851.58	N.A.	79.50
20-40	767.09	N.A.	21.40
20-50	1220.68	N.A.	34.00
40-70	1275.78	N.A.	35.60
60-80	708.52	N.A.	19.80
70-80	322.80	N.A.	9.00
80-90	262.37	N.A.	7.30
90-110	374.17	N.A.	10.40
90-120	495.22	N.A.	13.80
90-130	577.29	N.A.	16.10
90-150	647.61	N.A.	18.10
90-180	657.72	N.A.	18.30
110-180	283.54	N.A.	7.90
0-180	3586.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.54
10-20	223.53
20-30	343.80
30-40	423.29
40-50	453.58
50-60	436.48
60-70	385.72
70-80	322.80
80-90	262.37
90-100	210.26
100-110	163.91
110-120	121.05
120-130	82.06
130-140	47.86
140-150	22.46
150-160	8.07
160-170	1.88
170-180	0.15

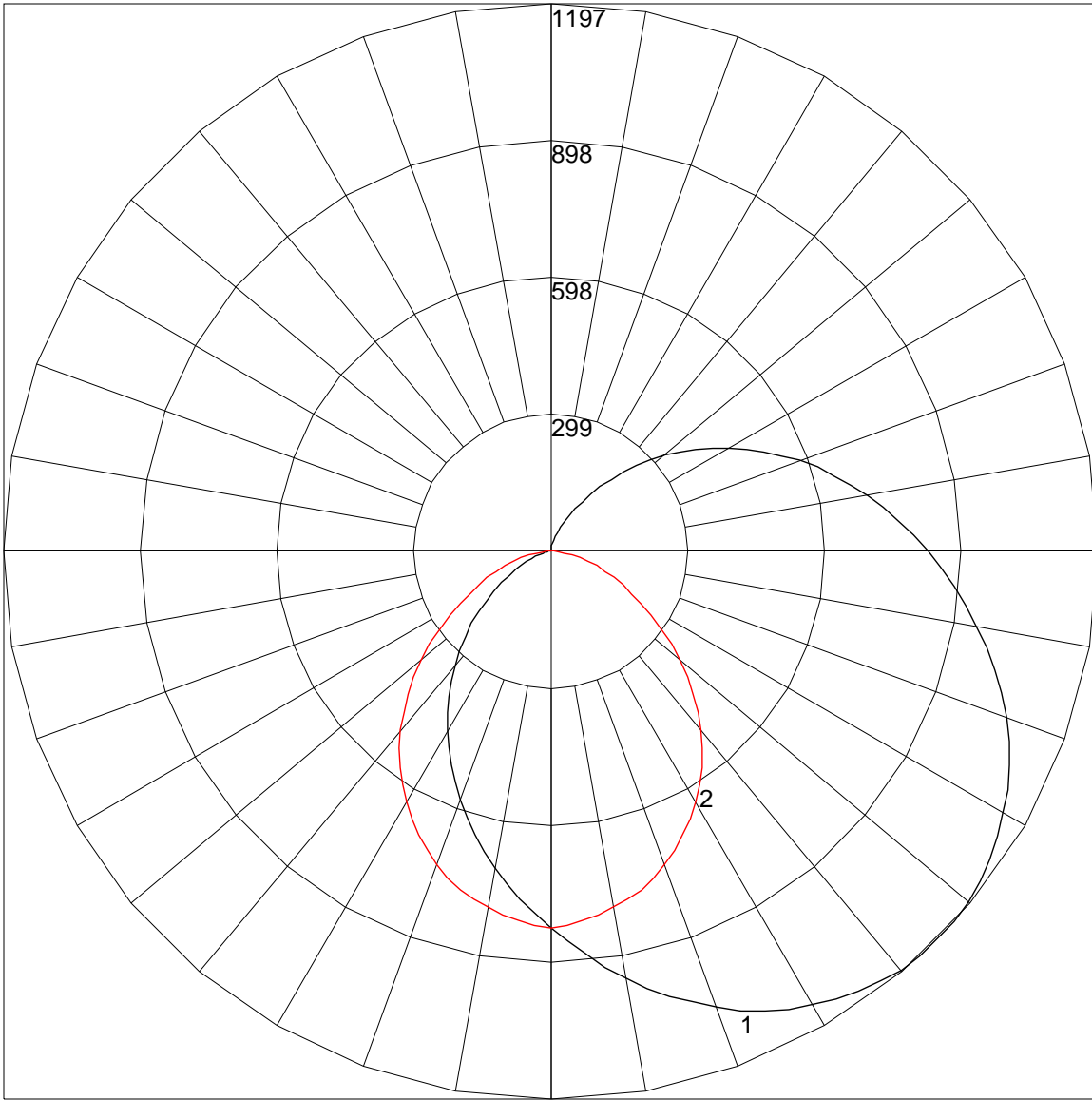
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PHOTOMETRIC FILENAME : MCNL48MFA40.IES

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	43	35	29	40	33	28	37	31	26	34	29	25	22
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 = 1196.814 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)