

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-935U-L50-935D-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792073931.01
[TESTLAB] UL, LLC
[ISSUE DATE] 2026-07-20
[TEST DATE] 12/30/2025
[MANUFAC] H E Williams Inc
[LUMCAT] CMH-4-00-L50-935U-L50-935D-DMA-DIM-UNV_
[LUMINAIRE] 4' wall mounted fixture with both up and down lighting
[MORE] compartments
[LAMP] (2) 56 LED boards - 112 Total LED
[OTHER] This test was performed using the calibrated photodetector method
[MORE] of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8314
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	84
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.19 ft
Luminous Width (90-270)	3.67 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17165	16254	15583
55	17064	15554	14294
65	17093	15015	12771
75	17390	14675	10537
85	18280	15010	7358

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1244.220	1244.220	1244.220	1244.220	1244.220	1244.220	1244.220	1244.220	1244.220
0.5	1245.968	1248.045	1245.732	1250.471	1241.990	1248.443	1240.062	1239.996	1240.114
1.0	1249.361	1251.005	1250.305	1251.486	1241.225	1246.581	1236.504	1236.438	1236.639
1.5	1253.851	1254.979	1251.652	1254.196	1241.225	1243.105	1234.641	1232.114	1230.702
2.0	1257.658	1259.884	1254.695	1254.445	1240.294	1240.477	1231.249	1228.639	1227.227
2.5	1263.162	1263.259	1258.752	1255.543	1239.446	1238.781	1227.856	1226.094	1223.917
3.0	1266.804	1268.330	1261.960	1255.792	1238.598	1237.085	1225.312	1221.006	1219.593
3.5	1271.626	1272.802	1264.321	1258.668	1238.598	1233.609	1221.071	1217.530	1217.049
4.0	1277.978	1277.275	1268.378	1258.918	1236.818	1230.217	1219.375	1213.290	1211.112
4.5	1280.855	1280.982	1271.587	1258.402	1235.970	1229.369	1215.134	1209.049	1205.940
5.0	1282.451	1285.620	1274.363	1261.195	1234.274	1225.128	1210.046	1204.725	1200.935
5.5	1288.370	1289.411	1275.277	1261.528	1231.730	1220.888	1207.501	1200.485	1198.390
6.0	1292.344	1292.436	1277.721	1261.012	1229.950	1219.956	1204.109	1197.009	1193.219
6.5	1295.553	1298.172	1280.248	1260.579	1228.337	1216.647	1199.702	1190.989	1188.213
7.0	1298.762	1301.796	1281.926	1260.745	1227.406	1213.937	1195.461	1185.817	1182.193
7.5	1302.036	1304.822	1283.688	1260.395	1223.082	1209.696	1190.373	1181.577	1176.256
8.0	1308.336	1306.999	1285.866	1258.183	1220.538	1205.455	1186.132	1176.405	1170.319
8.5	1313.919	1310.190	1288.043	1259.447	1219.690	1202.911	1181.809	1171.316	1164.466
9.0	1321.548	1313.548	1289.971	1258.083	1215.449	1198.587	1176.637	1164.448	1158.529
9.5	1325.321	1316.472	1291.134	1258.498	1212.822	1193.499	1171.548	1159.276	1156.832
10.0	1329.526	1321.010	1292.213	1257.300	1210.277	1190.023	1167.307	1154.188	1147.503
10.5	1333.649	1323.686	1294.141	1256.019	1206.037	1185.866	1162.136	1148.168	1143.346
11.0	1336.159	1325.597	1295.304	1253.973	1204.257	1181.542	1156.116	1143.927	1137.409
11.5	1338.419	1328.604	1295.619	1251.927	1199.169	1176.453	1151.110	1137.059	1129.776
12.0	1339.831	1330.764	1296.782	1251.578	1195.776	1173.826	1145.938	1131.122	1123.074
12.5	1344.719	1334.620	1297.180	1249.532	1193.149	1166.958	1140.001	1125.185	1117.137
13.0	1347.477	1336.697	1297.744	1247.486	1189.756	1162.717	1133.981	1118.317	1108.822
13.5	1349.637	1339.455	1298.308	1246.288	1183.820	1157.628	1128.810	1111.449	1103.899
14.0	1353.742	1341.200	1298.955	1244.325	1181.192	1150.760	1121.177	1104.664	1096.515
14.5	1356.584	1343.027	1297.740	1241.348	1176.951	1146.520	1115.157	1097.879	1088.965
15.0	1356.632	1343.924	1298.138	1239.385	1170.932	1141.348	1109.220	1091.094	1081.415
15.5	1358.394	1344.903	1298.020	1235.560	1165.843	1136.176	1102.352	1083.461	1077.175
16.0	1359.141	1346.730	1297.053	1232.416	1161.519	1130.239	1097.180	1076.676	1066.914
16.5	1362.796	1348.558	1298.632	1231.302	1157.279	1124.302	1090.395	1070.740	1061.826
17.0	1366.801	1347.841	1298.514	1227.476	1153.038	1117.434	1084.375	1063.023	1056.820
17.5	1367.431	1350.600	1297.465	1222.720	1147.018	1113.111	1076.659	1057.852	1048.256
18.0	1369.840	1349.883	1296.416	1220.757	1141.081	1104.546	1069.026	1050.218	1042.319
18.5	1373.097	1350.945	1295.117	1217.098	1135.061	1099.458	1065.550	1045.978	1034.603
19.0	1372.279	1352.007	1294.833	1214.453	1129.973	1092.590	1058.765	1038.345	1026.969
19.5	1376.118	1352.139	1292.687	1211.043	1123.953	1087.418	1051.049	1030.712	1018.405
20.0	1378.011	1351.588	1292.402	1206.536	1118.864	1080.633	1047.657	1023.079	1010.772
20.5	1378.557	1352.650	1289.491	1202.877	1113.692	1073.765	1039.941	1015.362	1002.208
21.0	1379.021	1352.016	1288.359	1197.853	1106.059	1066.980	1032.307	1007.729	994.575
21.5	1380.416	1352.397	1286.295	1195.292	1100.887	1063.504	1025.523	999.248	986.094
22.0	1382.226	1352.095	1284.315	1191.965	1094.102	1055.023	1017.806	991.615	977.529
22.5	1383.270	1351.794	1282.251	1187.624	1087.234	1048.920	1010.090	983.982	969.896
23.0	1382.536	1352.257	1280.271	1183.199	1081.214	1040.439	1002.457	975.501	961.332
23.5	1382.733	1351.357	1279.056	1177.079	1073.581	1037.046	994.741	967.020	952.851
24.0	1383.695	1351.221	1276.227	1173.835	1068.493	1030.178	987.025	959.303	943.521
24.5	1384.241	1350.920	1274.247	1168.895	1060.776	1022.545	979.392	950.905	935.888
25.0	1383.092	1350.701	1270.570	1165.319	1058.232	1014.746	971.676	942.341	927.324
25.5	1381.094	1348.786	1268.590	1160.978	1052.212	1007.113	964.043	933.860	917.995
26.0	1381.640	1348.319	1265.762	1154.092	1046.275	999.397	955.478	926.227	910.279
26.5	1380.574	1346.155	1263.016	1148.820	1038.559	991.764	947.762	917.745	900.866

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27.0	1378.659	1344.839	1261.202	1144.479	1030.843	983.965	939.281	909.264	892.385
27.5	1378.607	1344.371	1256.078	1140.138	1023.975	976.332	931.565	900.700	883.821
28.0	1379.153	1342.207	1252.734	1132.321	1016.342	967.767	923.848	892.219	874.491
28.5	1376.906	1340.043	1250.155	1128.745	1009.557	960.134	915.367	883.738	865.927
29.0	1375.074	1339.576	1247.575	1121.860	1001.076	952.418	906.886	874.408	857.446
29.5	1374.690	1335.715	1244.314	1114.808	993.360	943.937	898.322	865.927	848.541
30.0	1374.039	1333.385	1240.887	1110.384	985.643	935.289	890.689	857.363	839.724
30.5	1371.875	1331.471	1237.459	1104.347	978.010	927.656	882.125	848.797	831.241
31.0	1371.573	1330.155	1234.115	1098.143	970.377	919.092	873.643	840.231	822.422
31.5	1369.741	1328.673	1228.991	1095.415	962.661	910.611	865.162	831.834	813.688
32.0	1366.895	1326.509	1226.495	1088.363	954.180	902.895	856.598	823.097	805.290
32.5	1367.442	1323.497	1222.137	1084.787	946.464	894.330	848.032	814.616	796.388
33.0	1362.817	1322.264	1218.543	1078.750	938.831	885.849	839.466	805.712	787.483
33.5	1363.612	1318.321	1214.101	1071.781	930.266	877.285	830.985	797.146	778.917
34.0	1362.463	1315.392	1208.812	1065.661	921.785	868.804	822.420	788.750	770.013
34.5	1359.783	1312.380	1203.522	1058.609	913.221	861.088	813.854	780.014	761.362
35.0	1356.605	1309.368	1200.011	1051.641	904.740	852.352	805.458	771.448	752.966
35.5	1354.607	1307.287	1196.335	1045.520	897.106	843.788	797.062	762.797	744.146
36.0	1351.411	1302.579	1191.211	1038.552	888.625	835.222	788.495	754.316	735.327
36.5	1349.580	1299.566	1187.618	1031.583	879.296	826.657	779.592	746.005	726.591
37.0	1346.651	1297.486	1181.397	1024.532	870.732	818.346	771.280	737.271	717.771
37.5	1344.054	1292.860	1176.024	1017.563	862.250	809.527	762.799	728.450	709.461
38.0	1342.987	1289.000	1172.596	1010.595	853.769	800.961	754.148	720.139	700.473
38.5	1337.680	1286.071	1165.610	1003.626	845.120	792.225	745.667	711.490	691.567
39.0	1335.083	1283.990	1161.086	995.809	836.300	783.831	737.016	703.008	682.917
39.5	1331.389	1279.282	1161.733	988.758	827.734	775.265	728.705	694.357	674.351
40.0	1330.406	1276.353	1156.526	981.789	818.913	766.444	720.310	685.878	666.039
40.5	1325.265	1273.258	1151.319	973.972	810.095	757.880	711.574	677.395	657.473
41.0	1321.404	1268.799	1145.946	966.921	801.529	749.314	703.093	668.831	648.741
41.5	1317.111	1264.938	1140.740	959.270	792.538	740.410	694.442	660.519	640.343
42.0	1316.045	1261.843	1134.519	952.385	783.803	732.267	685.963	651.870	631.948
42.5	1312.517	1258.066	1129.229	945.499	774.982	723.618	677.397	643.219	623.635
43.0	1308.141	1251.662	1123.773	938.780	766.164	714.882	668.916	635.077	614.818
43.5	1306.060	1248.650	1118.566	931.129	756.919	706.146	660.180	626.343	606.589
44.0	1301.601	1244.790	1112.512	923.479	748.268	697.582	651.444	617.777	598.532
44.5	1298.073	1241.012	1106.207	915.745	739.278	689.101	642.880	609.383	590.137
45.0	1295.476	1238.000	1101.001	908.777	730.458	680.113	634.399	600.732	581.911
45.5	1289.920	1232.527	1094.863	901.130	721.639	671.460	625.578	592.420	573.262
46.0	1289.535	1228.750	1088.725	893.567	712.649	662.724	617.097	584.024	564.950
46.5	1284.394	1226.586	1083.435	885.919	703.742	654.075	608.362	575.460	556.978
47.0	1282.479	1225.270	1077.297	878.102	694.499	645.424	599.795	567.231	548.922
47.5	1279.633	1221.742	1071.076	870.706	685.340	636.604	591.231	558.752	540.356
48.0	1276.188	1216.785	1065.188	863.310	676.265	627.531	582.833	550.695	532.045
48.5	1270.632	1212.325	1058.801	855.829	667.359	618.710	574.099	542.300	523.818
49.0	1267.187	1207.617	1052.746	848.093	658.456	609.975	565.533	534.158	515.422
49.5	1263.825	1202.909	1046.525	840.360	649.466	601.409	557.137	525.933	507.449
50.0	1264.289	1199.215	1040.304	832.796	640.391	592.675	548.742	517.706	499.053
50.5	1258.217	1194.506	1034.249	824.981	631.401	583.685	540.091	509.902	490.913
51.0	1257.067	1189.964	1028.194	817.419	622.495	575.034	531.695	501.592	482.688
51.5	1252.857	1185.339	1021.125	809.600	613.590	566.129	523.129	493.365	474.715
52.0	1248.647	1179.783	1014.821	801.446	604.515	557.563	514.902	485.310	466.913
52.5	1245.036	1175.157	1008.766	793.799	595.610	548.913	506.507	477.253	458.771
53.0	1240.577	1170.366	1001.780	785.813	586.620	540.093	498.026	469.195	450.544
53.5	1236.118	1165.824	995.475	777.913	577.884	531.188	489.545	461.223	442.319
54.0	1231.991	1161.033	988.914	769.842	568.811	522.622	481.149	452.996	435.023
54.5	1227.532	1155.808	982.098	761.686	560.076	514.141	472.839	445.111	426.969

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CANDELA TABULATION - (Cont.)

55.0	1223.239	1151.017	975.622	753.786	551.170	505.322	464.442	436.969	418.826
55.5	1218.863	1145.460	969.229	745.545	542.350	496.418	456.133	428.911	411.023
56.0	1214.570	1140.835	962.583	737.561	533.360	487.851	447.904	421.193	402.798
56.5	1210.443	1135.279	955.682	729.235	524.453	479.117	439.340	412.882	395.250
57.0	1206.067	1130.737	948.869	720.995	515.464	470.549	431.366	405.251	387.784
57.5	1200.843	1125.263	942.304	712.756	506.642	461.647	423.226	397.024	379.560
58.0	1196.218	1119.624	935.574	704.260	497.484	452.995	414.829	389.306	371.672
58.5	1192.091	1114.150	928.678	696.021	488.494	444.428	406.772	381.418	363.700
59.0	1187.715	1108.843	921.524	687.526	479.334	435.779	398.715	373.446	356.151
59.5	1182.574	1103.121	914.874	679.033	470.090	427.044	390.743	365.728	348.433
60.0	1177.017	1097.564	907.722	670.794	461.015	418.225	382.770	357.925	340.631
60.5	1171.959	1092.091	901.077	662.555	452.025	409.574	374.630	350.208	332.828
61.0	1167.583	1086.531	894.177	654.484	443.120	400.839	366.488	342.405	325.110
61.5	1162.276	1080.975	887.278	646.160	434.045	392.357	358.346	334.602	317.308
62.0	1156.121	1075.079	880.039	637.665	425.138	383.623	350.543	326.801	309.844
62.5	1150.897	1069.264	873.221	629.341	415.978	375.058	342.401	318.914	301.957
63.0	1145.672	1063.705	866.410	621.017	407.158	366.237	334.261	311.196	294.408
63.5	1140.448	1057.554	859.510	612.692	398.168	357.501	326.287	303.561	286.606
64.0	1135.307	1051.574	852.272	604.368	389.178	349.190	318.230	295.673	279.313
64.5	1129.235	1045.678	845.459	596.044	380.274	340.539	310.003	287.955	272.272
65.0	1123.419	1039.783	837.967	587.381	371.284	332.058	301.776	280.322	264.385
65.5	1117.521	1033.548	831.066	578.803	362.209	323.407	293.889	272.604	256.921
66.0	1111.788	1027.141	824.082	570.481	353.387	314.758	285.662	265.056	249.627
66.5	1106.391	1020.993	816.677	562.072	344.568	306.107	277.776	257.253	242.334
67.0	1100.319	1014.841	809.776	553.663	335.746	297.626	270.057	249.790	235.294
67.5	1094.418	1008.689	802.368	545.000	326.924	289.314	262.169	242.242	227.916
68.0	1088.600	1002.288	795.132	536.424	317.681	281.087	254.198	234.778	220.367
68.5	1082.443	995.882	787.980	527.930	308.776	272.437	246.226	227.315	212.904
69.0	1077.053	989.564	780.487	519.608	300.040	264.210	238.339	219.851	206.034
69.5	1070.980	983.414	773.503	511.369	291.304	255.729	230.874	212.558	198.910
70.0	1065.245	977.006	766.013	503.130	282.484	247.502	223.157	205.264	191.784
70.5	1059.341	970.518	758.774	494.807	273.750	239.107	215.524	197.800	184.407
71.0	1053.608	964.112	751.453	486.234	264.928	230.965	207.891	190.761	177.283
71.5	1047.787	957.706	743.795	477.996	256.616	222.823	200.429	183.721	170.243
72.0	1041.469	950.882	736.641	470.012	247.964	214.681	192.964	176.682	163.796
72.5	1035.478	944.644	729.319	461.859	238.721	206.624	185.586	169.897	156.587
73.0	1029.243	938.071	722.167	453.960	230.407	198.737	178.376	162.773	149.802
73.5	1023.169	931.329	714.934	445.805	221.843	191.104	171.083	155.818	142.847
74.0	1017.179	924.840	707.444	437.655	213.445	183.386	163.874	149.201	136.234
74.5	1010.690	918.018	700.206	429.589	205.303	175.753	156.834	142.501	130.042
75.0	1004.533	911.529	692.636	421.772	197.076	168.119	149.880	135.887	123.342
75.5	998.210	904.787	685.403	413.623	189.018	160.656	142.923	129.102	116.980
76.0	991.803	898.299	678.505	405.642	180.960	153.362	135.886	122.742	110.788
76.5	985.389	891.474	671.104	398.078	172.903	146.153	128.931	116.126	104.684
77.0	978.897	885.073	663.870	390.014	165.099	138.944	122.484	109.935	98.999
77.5	972.405	878.335	656.639	382.537	157.126	131.820	115.785	103.659	93.063
78.0	966.083	871.849	649.658	374.895	149.663	124.696	109.255	97.637	87.295
78.5	959.251	865.114	642.760	367.672	142.115	117.741	102.809	91.699	81.528
79.0	952.846	858.207	635.698	360.032	134.819	111.041	96.448	85.762	75.676
79.5	946.354	851.723	628.802	352.643	127.440	104.426	90.255	79.825	70.333
80.0	939.698	845.154	621.827	345.342	120.145	97.978	84.233	74.227	64.905
80.5	933.039	838.506	614.847	338.460	113.105	91.532	78.296	68.630	59.647
81.0	926.802	832.106	608.377	331.580	106.319	85.256	72.529	63.202	54.219
81.5	920.396	825.200	601.656	324.701	99.703	79.233	66.845	57.859	48.960
82.0	913.907	818.802	595.186	317.822	93.173	73.296	61.164	52.600	44.043
82.5	908.089	812.998	588.804	311.197	86.642	67.614	55.904	47.764	39.375

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CANDELA TABULATION - (Cont.)

83.0	901.773	806.769	582.253	304.993	80.366	61.846	50.646	42.845	34.542
83.5	895.794	800.454	575.871	298.875	74.345	56.247	45.642	38.011	29.878
84.0	889.981	794.481	569.828	292.761	68.493	50.904	40.723	33.346	25.296
84.5	883.999	788.339	563.703	286.646	62.725	45.730	35.719	28.681	21.057
85.0	878.356	782.113	557.662	280.870	57.128	40.727	30.970	24.356	17.239
85.5	872.796	776.392	551.365	275.094	51.615	35.723	26.388	20.200	13.846
86.0	867.241	770.921	545.324	269.572	46.272	30.888	21.978	16.468	11.387
86.5	862.099	765.947	539.873	264.051	41.098	26.222	17.737	13.583	9.689
87.0	857.371	762.475	534.499	258.952	36.179	21.642	14.005	11.293	8.586
87.5	853.973	759.834	530.462	253.685	31.260	17.230	11.375	9.850	7.906
88.0	852.327	758.610	527.584	248.501	26.256	12.905	9.509	8.832	7.563
88.5	851.089	757.714	525.785	243.979	21.252	9.343	8.489	8.069	7.141
89.0	850.354	757.489	525.326	240.874	16.162	7.646	7.896	7.813	7.054
89.5	850.205	757.348	524.947	239.845	11.833	7.051	7.641	7.558	6.970
90.0	850.303	757.289	524.991	239.905	10.121	6.881	7.554	7.556	7.053
90.5	849.649	757.487	525.040	240.387	12.023	6.880	7.553	7.554	6.966
91.0	850.004	758.107	525.674	242.644	16.174	6.961	7.468	7.638	6.966
91.5	850.191	759.235	527.072	246.600	21.158	8.290	7.551	7.553	6.881
92.0	851.225	761.039	530.247	251.321	25.976	10.697	7.800	7.468	7.047
92.5	852.342	764.108	534.606	256.042	30.626	14.601	8.463	7.717	7.213
93.0	854.644	767.946	539.809	261.517	35.276	19.170	10.124	8.049	7.795
93.5	857.625	772.794	545.352	266.404	40.094	23.738	12.949	8.961	9.124
94.0	862.044	778.320	551.057	271.959	45.161	28.390	16.770	10.789	11.699
94.5	867.395	783.931	556.425	277.431	50.311	32.874	21.172	13.698	15.271
95.0	872.998	789.959	562.719	282.899	55.627	37.775	25.656	17.185	19.256
95.5	878.601	796.071	568.758	288.620	61.110	42.761	30.308	21.421	23.827
96.0	884.457	801.760	574.711	294.506	66.758	47.743	35.294	25.992	28.312
96.5	890.143	807.618	580.834	300.644	72.571	52.976	40.194	30.559	33.130
97.0	895.912	813.562	586.956	306.864	78.552	58.209	45.261	35.377	38.031
97.5	901.850	819.667	593.162	313.081	84.784	63.775	50.411	40.445	42.849
98.0	907.614	825.774	599.371	319.714	90.929	69.423	55.562	45.346	47.748
98.5	913.715	832.047	605.910	326.432	97.493	75.238	60.959	50.495	53.066
99.0	919.732	838.404	612.450	333.064	104.304	81.468	66.526	55.728	58.382
99.5	925.750	844.592	619.071	340.031	111.114	87.615	72.256	61.212	63.950
100.0	931.765	850.948	625.860	347.077	118.091	94.094	77.988	66.694	69.264
100.5	937.782	857.386	632.562	354.126	125.235	100.573	83.969	72.177	74.913
101.0	944.133	863.657	639.433	361.423	132.547	107.052	90.200	77.825	80.478
101.5	949.981	869.923	646.217	368.638	139.938	114.032	96.347	83.557	86.376
102.0	956.329	876.448	653.335	376.019	147.497	120.507	102.743	89.454	92.441
102.5	962.427	882.718	660.201	383.315	155.056	127.819	109.139	95.518	98.422
103.0	968.696	889.153	667.151	390.695	162.949	136.458	115.702	101.582	104.569
103.5	974.959	895.507	674.183	398.240	170.923	143.601	122.347	107.812	110.633
104.0	981.230	901.858	681.301	405.953	178.732	149.664	128.992	114.127	117.112
104.5	987.322	908.546	688.330	413.498	186.706	157.307	135.970	120.604	123.591
105.0	993.756	914.816	695.280	421.043	195.013	164.617	142.866	127.168	130.154
105.5	999.269	921.251	702.477	428.756	203.238	172.343	149.842	133.731	136.716
106.0	1005.615	927.687	709.425	436.551	211.543	180.981	156.987	140.376	143.446
106.5	1011.547	933.871	716.373	444.430	220.100	189.952	164.214	147.106	150.089
107.0	1017.728	940.224	723.404	452.058	228.490	196.515	171.358	153.999	157.318
107.5	1023.909	946.658	730.351	459.937	237.046	203.575	178.834	160.810	164.046
108.0	1029.839	952.925	737.552	467.980	245.603	211.550	186.144	168.122	171.107
108.5	1035.684	959.193	744.666	476.026	254.325	219.692	193.537	175.098	178.086
109.0	1041.949	965.211	751.699	483.986	262.964	227.748	201.179	182.409	185.230
109.5	1047.711	971.901	758.728	491.863	271.603	235.890	208.739	189.470	192.291
110.0	1053.724	977.750	765.595	500.075	280.408	244.113	216.215	196.780	199.685
110.5	1059.571	984.021	772.208	508.118	289.213	252.337	223.941	204.089	206.912

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CANDELA TABULATION - (Cont.)

111.0	1065.501	989.874	779.155	516.163	298.101	260.646	231.666	211.484	214.305
111.5	1071.269	995.975	786.189	524.375	306.990	268.952	239.308	218.960	221.366
112.0	1076.782	1002.080	793.051	532.501	315.878	277.342	247.199	226.436	228.507
112.5	1082.712	1008.100	800.083	540.794	325.017	285.898	255.174	233.829	235.819
113.0	1088.055	1014.121	807.033	548.920	333.822	294.454	262.982	241.222	243.295
113.5	1093.904	1020.058	813.894	557.381	342.710	303.094	271.039	248.864	250.937
114.0	1099.499	1025.740	820.757	565.508	351.847	311.567	279.265	256.423	258.413
114.5	1105.012	1031.593	827.622	573.717	360.652	320.289	289.065	264.233	265.889
115.0	1110.193	1037.532	834.487	582.012	369.625	328.930	299.531	271.958	273.533
115.5	1115.460	1043.384	841.267	590.221	378.679	337.735	307.007	279.517	280.926
116.0	1121.137	1048.819	848.217	598.431	387.733	346.373	312.159	287.242	288.983
116.5	1126.239	1054.675	854.744	606.642	396.622	355.012	319.303	294.968	296.542
117.0	1131.916	1060.529	861.777	614.935	405.678	363.983	328.774	302.859	304.435
117.5	1136.932	1065.880	868.389	623.061	414.898	372.541	339.406	310.418	311.910
118.0	1141.949	1071.647	875.086	631.356	423.703	381.512	347.877	318.394	319.720
118.5	1146.711	1077.003	882.117	639.481	432.840	390.319	353.695	325.951	327.445
119.0	1151.812	1082.189	888.649	647.775	441.896	398.958	360.175	334.094	335.421
119.5	1156.913	1088.206	895.344	655.902	450.950	407.514	368.149	341.902	342.895
120.0	1161.760	1093.646	901.958	663.945	460.173	416.236	376.289	349.876	351.204
120.5	1166.692	1098.917	908.572	671.822	469.144	425.126	384.513	357.769	358.846
121.0	1171.623	1104.103	915.271	680.032	477.866	433.764	392.654	365.827	366.656
121.5	1176.640	1109.543	921.719	687.991	487.003	442.320	400.794	375.379	374.464
122.0	1180.741	1114.814	928.334	696.202	496.057	450.961	409.269	386.263	382.438
122.5	1185.842	1119.085	934.697	704.162	504.945	459.517	417.409	395.564	390.496
123.0	1190.858	1124.525	941.228	712.121	513.918	468.324	425.717	401.713	398.470
123.5	1195.875	1129.627	947.845	719.998	522.972	476.879	434.024	409.106	406.694
124.0	1200.061	1134.151	954.458	727.876	531.778	485.601	442.416	418.743	417.743
124.5	1205.077	1139.338	960.819	735.919	540.833	494.408	450.722	426.884	432.115
125.0	1209.432	1144.693	967.436	743.878	549.639	502.798	459.195	432.366	441.334
125.5	1213.533	1149.133	973.965	751.840	558.693	511.520	467.503	438.183	445.655
126.0	1218.465	1154.404	980.082	759.466	567.498	520.159	475.893	445.906	447.150
126.5	1222.566	1159.014	986.608	767.261	576.303	528.633	484.117	453.882	454.128
127.0	1226.921	1164.285	993.558	775.055	585.276	537.438	492.423	461.941	462.102
127.5	1231.192	1168.725	999.507	782.600	594.164	545.994	500.815	469.916	470.161
128.0	1235.293	1173.250	1005.287	790.476	602.886	554.799	509.289	477.973	478.385
128.5	1239.563	1178.521	1012.152	798.270	611.942	563.606	517.345	486.115	486.442
129.0	1243.834	1183.046	1018.101	805.898	620.913	572.162	526.069	494.420	494.666
129.5	1243.782	1187.486	1024.050	813.609	629.801	580.801	534.625	502.479	502.890
130.0	1248.137	1191.926	1030.915	821.320	638.606	589.439	543.097	510.537	511.115
130.5	1250.746	1196.367	1036.780	829.115	647.413	598.246	551.572	518.594	519.422
131.0	1254.847	1199.891	1042.729	836.658	656.384	606.885	559.794	526.737	527.562
131.5	1255.880	1203.755	1048.678	844.286	665.438	615.441	568.185	535.043	535.787
132.0	1262.388	1207.365	1054.628	851.831	674.326	623.997	576.824	543.267	544.260
132.5	1266.743	1210.889	1060.577	859.376	683.382	632.721	585.214	551.490	552.480
133.0	1268.607	1213.923	1066.526	866.755	692.354	641.276	593.936	559.550	560.709
133.5	1272.708	1216.702	1072.476	874.382	701.077	650.000	602.325	568.853	568.933
134.0	1278.640	1222.057	1078.340	882.095	709.882	658.722	610.966	576.994	577.407
134.5	1280.418	1225.667	1083.459	889.638	718.770	667.195	619.522	585.302	585.546
135.0	1284.604	1231.023	1089.408	897.351	727.658	676.083	627.910	593.692	594.271
135.5	1289.790	1233.717	1095.358	904.063	736.548	684.805	636.552	602.166	602.327
136.0	1291.484	1237.411	1101.053	911.776	745.353	693.529	644.942	610.222	610.802
136.5	1297.331	1241.105	1106.341	919.235	754.075	701.917	653.415	618.613	618.856
137.0	1297.448	1245.461	1111.375	926.863	762.965	710.722	661.970	626.839	627.666
137.5	1302.295	1249.986	1117.409	933.745	771.606	719.532	670.194	635.059	635.972
138.0	1304.073	1252.764	1120.612	941.119	780.322	727.999	678.578	643.280	643.767
138.5	1309.175	1258.120	1124.985	947.917	788.714	736.555	687.138	652.006	652.662

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CANDELA TABULATION - (Cont.)

139.0	1312.038	1260.153	1130.934	955.460	797.353	744.862	695.528	660.230	661.136
139.5	1314.393	1263.678	1135.137	962.088	806.078	753.586	703.919	668.621	669.528
140.0	1317.002	1267.457	1140.341	968.800	814.634	761.892	712.059	676.845	677.836
140.5	1321.358	1271.236	1142.967	976.259	823.275	770.533	720.700	685.485	686.809
141.0	1323.882	1274.846	1147.255	982.887	832.082	778.924	729.256	694.290	695.614
141.5	1327.322	1276.133	1153.205	990.345	840.803	787.397	737.646	702.929	704.170
142.0	1329.270	1280.743	1157.408	997.058	849.110	795.870	746.034	711.568	712.809
142.5	1331.880	1284.352	1162.612	1003.686	857.417	804.177	754.340	719.792	721.448
143.0	1335.981	1287.046	1166.815	1010.483	865.723	812.649	762.647	728.098	730.004
143.5	1339.505	1289.079	1171.103	1017.281	874.861	821.288	771.286	736.903	738.644
144.0	1337.961	1292.028	1176.222	1024.078	883.252	829.761	779.591	745.540	747.281
144.5	1342.486	1295.807	1180.510	1030.791	891.644	837.735	788.065	754.096	755.920
145.0	1346.672	1298.671	1183.967	1036.842	899.950	846.042	796.372	762.403	764.893
145.5	1346.874	1301.534	1189.916	1043.640	908.257	854.433	804.677	770.959	773.200
146.0	1349.399	1303.398	1193.289	1049.692	915.818	862.740	812.817	779.265	781.756
146.5	1354.008	1307.177	1197.662	1053.997	924.124	871.047	821.041	787.736	790.311
147.0	1355.872	1309.040	1201.865	1059.964	932.431	879.353	829.597	796.124	798.949
147.5	1359.396	1312.904	1205.407	1064.354	939.992	887.830	837.820	804.597	807.255
148.0	1359.429	1313.276	1209.695	1069.490	948.298	896.051	846.127	813.070	815.977
148.5	1359.716	1315.309	1212.322	1076.288	955.859	903.527	854.518	821.543	824.452
149.0	1362.240	1319.088	1216.610	1082.255	964.251	911.088	862.740	829.847	833.089
149.5	1363.527	1317.799	1219.236	1086.645	971.727	919.480	871.047	837.905	841.397
150.0	1364.306	1321.408	1223.525	1093.527	979.202	927.786	879.353	846.212	850.534
150.5	1367.000	1323.441	1228.728	1098.748	986.678	935.347	887.660	855.349	858.841
151.0	1367.117	1325.474	1229.778	1104.800	994.239	942.823	895.221	863.571	867.894
151.5	1369.896	1325.930	1234.897	1109.936	1001.800	951.130	903.527	871.962	876.285
152.0	1370.098	1327.218	1236.778	1115.987	1009.361	958.690	911.834	880.184	885.338
152.5	1369.384	1329.251	1240.320	1120.378	1016.837	966.166	920.225	888.491	893.729
153.0	1369.586	1329.622	1243.862	1126.429	1023.567	973.727	927.617	895.967	902.036
153.5	1372.281	1331.740	1246.489	1131.650	1027.805	981.203	936.008	905.104	910.342
154.0	1370.821	1333.027	1248.370	1137.702	1036.112	989.595	943.484	913.326	919.564
154.5	1372.685	1333.484	1250.081	1142.092	1041.926	996.240	951.791	921.632	927.956
155.0	1374.463	1334.686	1253.454	1146.483	1046.995	1003.885	959.351	929.108	936.178
155.5	1373.919	1334.397	1255.826	1151.788	1052.895	1011.277	967.658	937.415	944.569
156.0	1371.545	1335.684	1257.367	1156.094	1060.371	1018.922	975.219	945.722	952.791
156.5	1373.408	1337.056	1259.079	1161.400	1066.270	1023.076	982.695	953.943	960.267
157.0	1374.271	1336.597	1261.620	1165.875	1073.000	1030.636	990.171	961.419	968.658
157.5	1370.455	1337.138	1263.332	1169.350	1078.815	1037.282	998.562	969.726	976.965
158.0	1370.707	1335.188	1265.297	1173.740	1084.714	1043.927	1006.038	978.033	985.272
158.5	1368.484	1335.729	1266.432	1177.384	1091.360	1048.996	1012.683	985.509	992.748
159.0	1366.194	1336.270	1268.398	1181.775	1097.259	1055.641	1017.668	992.985	1001.054
159.5	1368.397	1336.727	1269.533	1186.250	1102.243	1063.117	1027.720	1001.291	1008.530
160.0	1365.683	1336.268	1270.753	1189.809	1108.973	1069.016	1031.874	1008.767	1016.837
160.5	1363.732	1335.724	1272.803	1192.623	1114.042	1075.747	1039.434	1016.243	1024.398
161.0	1364.426	1335.841	1274.023	1196.268	1118.195	1081.561	1045.249	1022.058	1032.619
161.5	1362.814	1332.805	1275.989	1199.827	1124.841	1088.207	1050.318	1029.534	1039.265
162.0	1361.712	1331.516	1273.971	1203.472	1128.994	1094.106	1057.794	1037.010	1042.418
162.5	1358.591	1329.480	1276.852	1204.624	1135.724	1100.836	1063.608	1042.824	1049.724
163.0	1357.708	1330.852	1276.495	1209.099	1139.962	1107.481	1072.000	1048.639	1056.115
163.5	1356.164	1328.156	1276.969	1210.997	1145.777	1112.550	1077.814	1056.115	1063.506
164.0	1356.620	1328.121	1278.189	1213.811	1149.930	1117.534	1083.629	1062.760	1070.067
164.5	1353.924	1325.509	1277.832	1215.710	1154.999	1123.349	1091.190	1070.321	1079.034
165.0	1351.312	1325.389	1278.306	1218.523	1159.983	1129.994	1097.835	1076.136	1085.680
165.5	1347.039	1321.116	1278.034	1221.252	1165.052	1134.232	1102.819	1081.950	1091.494
166.0	1347.004	1319.505	1277.593	1224.066	1169.205	1139.216	1108.719	1089.426	1099.631
166.5	1345.138	1317.809	1278.151	1226.880	1172.528	1145.116	1115.279	1096.072	1107.107

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CMH-4-00-L50-935U-L50-935D-DMA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	1343.103	1316.112	1277.049	1226.456	1176.766	1149.269	1122.009	1101.971	1113.753
167.5	1339.491	1312.925	1276.777	1228.524	1180.173	1154.253	1126.163	1109.532	1119.567
168.0	1333.726	1310.483	1276.505	1230.592	1184.326	1159.322	1132.893	1116.177	1126.297
168.5	1332.861	1308.532	1276.233	1232.745	1188.480	1164.306	1139.623	1122.907	1132.858
169.0	1327.842	1305.666	1274.300	1231.490	1192.718	1169.290	1143.691	1127.891	1138.588
169.5	1325.315	1302.563	1274.028	1234.303	1195.125	1172.612	1150.337	1135.367	1143.487
170.0	1322.788	1299.375	1272.926	1234.795	1197.617	1177.681	1155.406	1140.351	1150.132
170.5	1320.346	1297.933	1270.246	1236.117	1200.194	1181.834	1159.644	1146.251	1156.032
171.0	1315.242	1294.915	1270.890	1236.693	1201.855	1185.988	1163.882	1152.065	1161.100
171.5	1311.223	1291.896	1267.295	1237.270	1206.093	1188.565	1168.950	1158.050	1167.746
172.0	1309.036	1288.132	1267.193	1238.591	1209.501	1192.718	1173.935	1161.372	1172.560
172.5	1305.102	1284.453	1264.514	1238.337	1211.908	1196.871	1178.918	1168.018	1179.120
173.0	1299.592	1281.434	1262.005	1238.168	1213.654	1201.025	1183.902	1173.002	1182.358
173.5	1296.658	1277.670	1261.242	1239.659	1215.231	1202.686	1188.056	1177.155	1188.258
174.0	1293.555	1274.737	1257.901	1239.490	1216.061	1206.839	1191.378	1182.224	1193.988
174.5	1288.706	1269.396	1255.562	1239.320	1218.638	1210.993	1195.447	1187.208	1196.480
175.0	1283.856	1265.717	1253.222	1237.574	1221.130	1213.485	1198.770	1191.276	1201.379
175.5	1279.092	1262.207	1250.967	1239.235	1222.707	1215.061	1203.008	1195.514	1204.701
176.0	1277.820	1258.782	1248.796	1239.150	1224.453	1218.468	1207.076	1199.752	1211.432
176.5	1270.903	1253.865	1246.711	1238.405	1225.199	1220.130	1212.145	1203.991	1214.008
177.0	1267.308	1250.780	1243.134	1238.405	1225.368	1222.622	1212.976	1208.059	1218.162
177.5	1261.967	1246.117	1242.134	1236.743	1226.945	1223.453	1217.129	1211.382	1220.569
178.0	1256.966	1243.286	1240.388	1236.743	1227.775	1225.945	1219.536	1216.450	1227.299
178.5	1251.643	1238.133	1237.896	1235.912	1227.775	1228.437	1222.028	1219.688	1231.368
179.0	1248.066	1236.386	1234.573	1235.912	1228.606	1229.267	1226.266	1223.011	1233.029
179.5	1244.658	1233.149	1232.912	1234.251	1228.606	1230.928	1227.928	1225.588	1239.759
180.0	1231.742	1231.742	1231.742	1231.742	1231.742	1231.742	1231.742	1231.742	1231.742

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-935U-L50-935D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	457.31	N.A.	5.50
0-30	971.45	N.A.	11.70
0-40	1593.53	N.A.	19.20
0-60	2886.25	N.A.	34.70
0-80	3865.55	N.A.	46.50
0-90	4173.16	N.A.	50.20
10-90	4055.03	N.A.	48.80
20-40	1136.22	N.A.	13.70
20-50	1795.82	N.A.	21.60
40-70	1843.12	N.A.	22.20
60-80	979.29	N.A.	11.80
70-80	428.89	N.A.	5.20
80-90	307.62	N.A.	3.70
90-110	733.74	N.A.	8.80
90-120	1280.27	N.A.	15.40
90-130	1908.91	N.A.	23.00
90-150	3179.95	N.A.	38.20
90-180	4140.61	N.A.	49.80
110-180	3406.87	N.A.	41.00
0-180	8313.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.14
10-20	339.18
20-30	514.14
30-40	622.08
40-50	659.60
50-60	633.11
60-70	550.40
70-80	428.89
80-90	307.62
90-100	307.17
100-110	426.57
110-120	546.53
120-130	628.64
130-140	654.56
140-150	616.47
150-160	508.65
160-170	335.19
170-180	116.81

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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65	59	57	55	47	46	44	39
2	87	79	72	66	80	73	67	62	61	57	53	51	47	44	41	38	36	32
3	79	69	61	55	72	64	57	51	54	48	44	44	40	37	36	33	30	26
4	72	61	52	46	66	56	49	43	47	42	37	39	35	31	32	28	26	22
5	66	54	45	39	61	50	42	37	42	36	32	35	30	27	28	25	22	19
6	61	48	40	34	56	45	37	32	38	32	27	32	27	23	26	22	19	16
7	56	43	35	29	51	40	33	28	34	28	24	29	24	21	23	20	17	14
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	21	18	15	13
9	48	36	28	23	44	33	26	22	29	23	19	24	20	16	20	16	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	18	15	12	10

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-935U-L50-935D-DMA-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	21.2	22.1	22.1	23.1	24.3	15.2	16.1	16.1	17.1	18.3
	3H	24.3	25.1	25.2	26.1	27.4	16.5	17.4	17.5	18.3	19.6
	4H	25.9	26.6	26.8	27.6	28.9	17.0	17.8	17.9	18.7	20.0
	6H	27.6	28.3	28.5	29.3	30.6	17.2	17.9	18.2	18.9	20.2
	8H	28.5	29.2	29.5	30.2	31.5	17.3	18.0	18.2	19.0	20.3
	12H	29.5	30.1	30.5	31.1	32.5	17.3	17.9	18.3	18.9	20.3

UGR Viewed Endwise

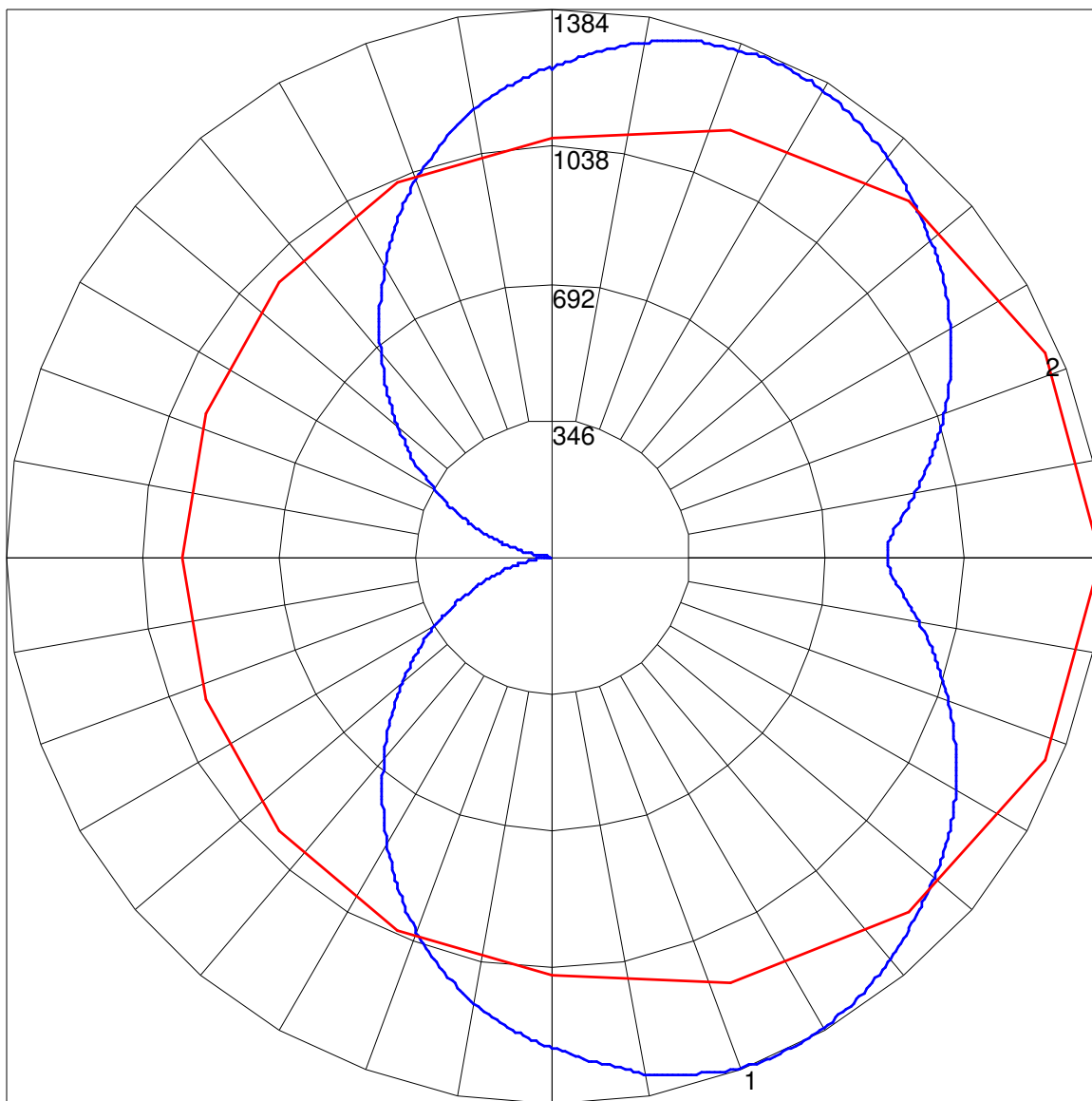
4H	2H	21.5	22.2	22.4	23.2	24.5	16.4	17.2	17.4	18.2	19.5
	3H	24.8	25.4	25.8	26.4	27.8	18.1	18.7	19.1	19.7	21.1
	4H	26.5	27.2	27.5	28.2	29.5	18.6	19.3	19.6	20.3	21.6
	6H	28.4	29.0	29.5	30.0	31.3	19.0	19.6	20.0	20.6	21.9
	8H	29.5	29.9	30.5	31.0	32.3	19.1	19.6	20.1	20.6	22.0
	12H	30.6	31.0	31.6	32.1	33.4	19.2	19.6	20.2	20.7	22.0

8H	4H	26.7	27.2	27.7	28.2	29.5	19.8	20.3	20.8	21.3	22.6
	6H	28.7	29.2	29.8	30.2	31.6	20.4	20.8	21.4	21.9	23.2
	8H	29.9	30.3	30.9	31.3	32.7	20.6	21.0	21.6	22.0	23.4
	12H	31.2	31.5	32.2	32.6	34.0	20.7	21.1	21.8	22.1	23.5

12H	4H	26.6	27.1	27.7	28.1	29.5	20.1	20.6	21.1	21.6	22.9
	6H	28.8	29.1	29.8	30.2	31.6	20.9	21.3	22.0	22.3	23.7
	8H	30.0	30.3	31.0	31.3	32.7	21.2	21.6	22.3	22.6	24.0

Maximum UGR = 34.0

POLAR GRAPH



Maximum Candela = 1384.241 Located At Horizontal Angle = 0, Vertical Angle = 24.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (24.5) (Through Max. Cd.)