

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-940U-L50-940D-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
[MANUFACT] H E Williams Inc
[LUMCAT] CMH-4-00-L50-940U-L50-940D-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	8614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	17786	16842	16146
55	17681	16116	14810
65	17711	15558	13232
75	18019	15206	10918
85	18941	15553	7624

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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	1289.192	1289.191	1289.191	1289.191	1289.191	1289.191	1289.191	1289.191	1289.191
0.5	1291.003	1293.155	1290.759	1295.669	1286.881	1293.567	1284.884	1284.816	1284.938
1.0	1294.518	1296.222	1295.497	1296.720	1286.089	1291.638	1281.196	1281.128	1281.337
1.5	1299.170	1300.339	1296.892	1299.528	1286.089	1288.036	1279.267	1276.649	1275.185
2.0	1303.116	1305.422	1300.045	1299.787	1285.124	1285.314	1275.752	1273.047	1271.584
2.5	1308.819	1308.919	1304.248	1300.924	1284.245	1283.556	1272.236	1270.411	1268.155
3.0	1312.592	1314.173	1307.573	1301.182	1283.366	1281.799	1269.600	1265.138	1263.675
3.5	1317.589	1318.807	1310.020	1304.162	1283.366	1278.198	1265.206	1261.537	1261.039
4.0	1324.170	1323.441	1314.223	1304.421	1281.523	1274.683	1263.449	1257.143	1254.887
4.5	1327.151	1327.283	1317.548	1303.886	1280.644	1273.804	1259.055	1252.749	1249.529
5.0	1328.804	1332.089	1320.425	1306.781	1278.886	1269.410	1253.782	1248.270	1244.342
5.5	1334.938	1336.016	1321.371	1307.125	1276.250	1265.016	1251.146	1243.876	1241.706
6.0	1339.055	1339.151	1323.903	1306.591	1274.406	1264.051	1247.631	1240.274	1236.347
6.5	1342.380	1345.094	1326.522	1306.142	1272.735	1260.622	1243.065	1234.037	1231.160
7.0	1345.705	1348.849	1328.261	1306.314	1271.770	1257.814	1238.671	1228.678	1224.923
7.5	1349.098	1351.984	1330.087	1305.952	1267.290	1253.420	1233.398	1224.284	1218.772
8.0	1355.625	1354.240	1332.342	1303.660	1264.654	1249.026	1229.004	1218.926	1212.620
8.5	1361.410	1357.546	1334.598	1304.969	1263.775	1246.390	1224.524	1213.653	1206.555
9.0	1369.315	1361.025	1336.596	1303.556	1259.381	1241.910	1219.166	1206.537	1200.403
9.5	1373.224	1364.056	1337.801	1303.986	1256.659	1236.637	1213.893	1201.178	1198.646
10.0	1377.582	1368.758	1338.920	1302.745	1254.022	1233.036	1209.499	1195.905	1188.979
10.5	1381.853	1371.530	1340.918	1301.418	1249.629	1228.728	1204.140	1189.668	1184.671
11.0	1384.454	1373.510	1342.123	1299.298	1247.785	1224.248	1197.903	1185.274	1178.520
11.5	1386.795	1376.626	1342.449	1297.178	1242.512	1218.976	1192.716	1178.158	1170.611
12.0	1388.259	1378.864	1343.654	1296.815	1238.997	1216.253	1187.358	1172.006	1163.667
12.5	1393.323	1382.859	1344.066	1294.696	1236.275	1209.137	1181.206	1165.855	1157.515
13.0	1396.181	1385.011	1344.650	1292.576	1232.760	1204.743	1174.969	1158.738	1148.900
13.5	1398.419	1387.869	1345.235	1291.334	1226.608	1199.470	1169.610	1151.622	1143.799
14.0	1402.673	1389.677	1345.905	1289.301	1223.886	1192.354	1161.701	1144.592	1136.149
14.5	1405.617	1391.570	1344.646	1286.216	1219.492	1187.960	1155.464	1137.562	1128.326
15.0	1405.667	1392.499	1345.058	1284.182	1213.254	1182.601	1149.312	1130.532	1120.503
15.5	1407.493	1393.514	1344.936	1280.218	1207.982	1177.243	1142.196	1122.623	1116.109
16.0	1408.267	1395.407	1343.935	1276.962	1203.502	1171.091	1136.837	1115.592	1105.477
16.5	1412.054	1397.301	1345.570	1275.806	1199.108	1164.940	1129.807	1109.441	1100.205
17.0	1416.204	1396.558	1345.448	1271.843	1194.714	1157.823	1123.569	1101.446	1095.018
17.5	1416.856	1399.416	1344.361	1266.915	1188.476	1153.344	1115.574	1096.087	1086.144
18.0	1419.352	1398.674	1343.274	1264.881	1182.325	1144.470	1107.665	1088.178	1079.993
18.5	1422.727	1399.774	1341.929	1261.089	1176.088	1139.197	1104.064	1083.784	1071.998
19.0	1421.880	1400.875	1341.634	1258.349	1170.815	1132.081	1097.034	1075.875	1064.089
19.5	1425.857	1401.011	1339.410	1254.816	1164.578	1126.722	1089.039	1067.966	1055.215
20.0	1427.818	1400.440	1339.116	1250.146	1159.305	1119.692	1085.524	1060.057	1047.306
20.5	1428.385	1401.541	1336.099	1246.354	1153.946	1112.576	1077.529	1052.062	1038.432
21.0	1428.865	1400.884	1334.926	1241.149	1146.037	1105.545	1069.620	1044.153	1030.523
21.5	1430.310	1401.279	1332.788	1238.495	1140.678	1101.944	1062.590	1035.366	1021.736
22.0	1432.185	1400.966	1330.736	1235.048	1133.648	1093.157	1054.594	1027.457	1012.862
22.5	1433.268	1400.654	1328.598	1230.550	1126.532	1086.833	1046.600	1019.548	1004.953
23.0	1432.507	1401.134	1326.546	1225.966	1120.294	1078.045	1038.690	1010.760	996.079
23.5	1432.711	1400.201	1325.287	1219.624	1112.385	1074.530	1030.695	1001.972	987.291
24.0	1433.708	1400.061	1322.356	1216.263	1107.113	1067.414	1022.700	993.977	977.625
24.5	1434.274	1399.748	1320.304	1211.144	1099.118	1059.505	1014.791	985.275	969.716
25.0	1433.083	1399.522	1316.495	1207.439	1096.481	1051.424	1006.796	976.402	960.842
25.5	1431.013	1397.538	1314.443	1202.941	1090.244	1043.515	998.887	967.614	951.175
26.0	1431.579	1397.053	1311.512	1195.807	1084.092	1035.520	990.014	959.705	943.180
26.5	1430.474	1394.811	1308.667	1190.344	1076.097	1027.611	982.019	950.917	933.428

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CANDELA TABULATION - (Cont.)

27.0	1428.490	1393.448	1306.787	1185.846	1068.102	1019.530	973.231	942.129	924.640
27.5	1428.436	1392.963	1301.479	1181.348	1060.986	1011.621	965.236	933.255	915.766
28.0	1429.002	1390.721	1298.013	1173.248	1053.077	1002.747	957.241	924.468	906.100
28.5	1426.674	1388.479	1295.341	1169.543	1046.047	994.838	948.453	915.680	897.226
29.0	1424.776	1387.994	1292.668	1162.409	1037.259	986.843	939.665	906.013	888.438
29.5	1424.377	1383.994	1289.289	1155.102	1029.264	978.055	930.791	897.226	879.211
30.0	1423.703	1381.580	1285.738	1150.518	1021.269	969.095	922.882	888.352	870.075
30.5	1421.460	1379.596	1282.187	1144.263	1013.360	961.186	914.009	879.476	861.286
31.0	1421.148	1378.233	1278.722	1137.835	1005.451	952.312	905.221	870.601	852.148
31.5	1419.250	1376.697	1273.413	1135.008	997.456	943.524	896.433	861.901	843.098
32.0	1416.301	1374.455	1270.826	1127.702	988.668	935.529	887.559	852.847	834.397
32.5	1416.868	1371.334	1266.310	1123.996	980.673	926.656	878.683	844.060	825.173
33.0	1412.075	1370.057	1262.587	1117.741	972.764	917.868	869.808	834.834	815.946
33.5	1412.900	1365.971	1257.985	1110.521	963.890	908.994	861.020	825.959	807.071
34.0	1411.708	1362.936	1252.504	1104.179	955.103	900.206	852.146	817.259	797.845
34.5	1408.932	1359.815	1247.023	1096.872	946.229	892.211	843.271	808.207	788.882
35.0	1405.639	1356.694	1243.385	1089.652	937.441	883.160	834.571	799.332	780.182
35.5	1403.569	1354.538	1239.576	1083.310	929.532	874.286	825.871	790.368	771.043
36.0	1400.257	1349.660	1234.267	1076.090	920.744	865.410	816.995	781.581	761.905
36.5	1398.360	1346.539	1230.543	1068.869	911.078	856.537	807.770	772.969	752.854
37.0	1395.325	1344.383	1224.098	1061.563	902.204	847.925	799.158	763.919	743.714
37.5	1392.634	1339.590	1218.531	1054.342	893.416	838.787	790.370	754.780	735.104
38.0	1391.529	1335.591	1214.979	1047.122	884.628	829.912	781.407	746.168	725.791
38.5	1386.030	1332.556	1207.741	1039.902	875.667	820.860	772.619	737.206	716.564
39.0	1383.339	1330.399	1203.053	1031.802	866.528	812.162	763.655	728.418	707.600
39.5	1379.512	1325.521	1203.723	1024.496	857.652	803.286	755.043	719.455	698.725
40.0	1378.493	1322.486	1198.328	1017.275	848.513	794.147	746.345	710.669	690.113
40.5	1373.166	1319.279	1192.933	1009.176	839.375	785.273	737.294	701.879	681.237
41.0	1369.166	1314.659	1187.366	1001.870	830.500	776.398	728.506	693.005	672.189
41.5	1364.718	1310.659	1181.971	993.943	821.184	767.172	719.543	684.393	663.488
42.0	1363.613	1307.452	1175.525	986.808	812.133	758.734	710.757	675.432	654.789
42.5	1359.957	1303.539	1170.044	979.674	802.994	749.773	701.881	666.468	646.176
43.0	1355.423	1296.902	1164.391	972.712	793.856	740.721	693.093	658.032	637.040
43.5	1353.267	1293.782	1158.996	964.785	784.278	731.670	684.042	648.982	628.514
44.0	1348.647	1289.782	1152.723	956.858	775.314	722.796	674.990	640.107	620.166
44.5	1344.991	1285.868	1146.191	948.845	765.999	714.008	666.117	631.409	611.468
45.0	1342.301	1282.747	1140.796	941.624	756.860	704.695	657.329	622.445	602.944
45.5	1336.543	1277.076	1134.436	933.701	747.722	695.730	648.190	613.833	593.982
46.0	1336.145	1273.162	1128.077	925.865	738.407	686.678	639.402	605.133	585.370
46.5	1330.818	1270.920	1122.596	917.940	729.178	677.716	630.351	596.260	577.109
47.0	1328.834	1269.557	1116.236	909.841	719.602	668.753	621.475	587.734	568.763
47.5	1325.885	1265.901	1109.790	902.177	710.111	659.614	612.601	578.948	559.887
48.0	1322.316	1260.765	1103.688	894.514	700.708	650.213	603.899	570.599	551.275
48.5	1316.559	1256.145	1097.071	886.762	691.481	641.073	594.850	561.901	542.751
49.0	1312.989	1251.266	1090.797	878.747	682.255	632.022	585.974	553.465	534.051
49.5	1309.506	1246.388	1084.351	870.734	672.940	623.146	577.274	544.943	525.791
50.0	1309.986	1242.560	1077.905	862.897	663.538	614.097	568.576	536.418	517.091
50.5	1303.694	1237.681	1071.632	854.799	654.222	604.782	559.613	528.332	508.656
51.0	1302.503	1232.975	1065.358	846.964	644.995	595.818	550.913	519.722	500.134
51.5	1298.141	1228.183	1058.033	838.863	635.768	586.591	542.037	511.198	491.874
52.0	1293.779	1222.425	1051.501	830.414	626.365	577.716	533.513	502.851	483.789
52.5	1290.037	1217.633	1045.228	822.490	617.138	568.754	524.815	494.503	475.353
53.0	1285.417	1212.668	1037.989	814.216	607.823	559.615	516.027	486.154	466.828
53.5	1280.797	1207.962	1031.456	806.030	598.772	550.387	507.240	477.894	458.306
54.0	1276.521	1202.997	1024.658	797.667	589.371	541.512	498.540	469.370	450.747
54.5	1271.901	1197.584	1017.595	789.217	580.319	532.724	489.929	461.199	442.402

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CANDELA TABULATION - (Cont.)

55.0	1267.453	1192.620	1010.886	781.032	571.092	523.587	481.229	452.763	433.964
55.5	1262.918	1186.863	1004.261	772.493	561.953	514.361	472.619	444.414	425.879
56.0	1258.470	1182.070	997.376	764.220	552.638	505.484	464.093	436.417	417.357
56.5	1254.194	1176.313	990.225	755.593	543.409	496.434	455.220	427.805	409.536
57.0	1249.660	1171.607	983.166	747.055	534.096	487.557	446.957	419.898	401.801
57.5	1244.247	1165.936	976.363	738.518	524.955	478.333	438.523	411.374	393.279
58.0	1239.455	1160.092	969.390	729.716	515.466	469.368	429.823	403.377	385.106
58.5	1235.178	1154.421	962.245	721.179	506.151	460.492	421.475	395.205	376.845
59.0	1230.644	1148.922	954.832	712.377	496.660	451.531	413.126	386.944	369.024
59.5	1225.317	1142.993	947.942	703.576	487.081	442.479	404.866	378.947	361.027
60.0	1219.560	1137.235	940.531	695.039	477.678	433.342	396.605	370.863	352.943
60.5	1214.319	1131.564	933.646	686.503	468.363	424.378	388.171	362.866	344.858
61.0	1209.785	1125.803	926.497	678.140	459.136	415.327	379.735	354.781	336.861
61.5	1204.286	1120.046	919.348	669.515	449.733	406.539	371.298	346.696	328.776
62.0	1197.908	1113.937	911.848	660.713	440.504	397.489	363.214	338.613	321.043
62.5	1192.495	1107.913	904.783	652.088	431.013	388.614	354.777	330.441	312.871
63.0	1187.082	1102.152	897.726	643.464	421.874	379.474	346.343	322.444	305.049
63.5	1181.669	1095.779	890.577	634.837	412.559	370.423	338.081	314.533	296.965
64.0	1176.342	1089.583	883.077	626.212	403.244	361.811	329.732	306.360	289.409
64.5	1170.051	1083.474	876.018	617.588	394.019	352.848	321.208	298.363	282.113
65.0	1164.024	1077.365	868.255	608.612	384.704	344.060	312.684	290.454	273.941
65.5	1157.914	1070.905	861.105	599.723	375.301	335.096	304.511	282.458	266.208
66.0	1151.973	1064.267	853.868	591.100	366.160	326.135	295.987	274.637	258.650
66.5	1146.381	1057.896	846.196	582.388	357.022	317.171	287.816	266.552	251.093
67.0	1140.089	1051.522	839.045	573.675	347.881	308.383	279.818	258.819	243.799
67.5	1133.975	1045.148	831.369	564.699	338.740	299.771	271.645	250.998	236.153
68.0	1127.947	1038.515	823.872	555.813	329.163	291.247	263.386	243.264	228.332
68.5	1121.567	1031.878	816.461	547.012	319.936	282.284	255.126	235.531	220.599
69.0	1115.982	1025.331	808.697	538.389	310.885	273.760	246.953	227.798	213.481
69.5	1109.690	1018.959	801.461	529.853	301.833	264.972	239.218	220.240	206.099
70.0	1103.748	1012.319	793.700	521.316	292.694	256.448	231.223	212.683	198.716
70.5	1097.630	1005.597	786.200	512.691	283.645	247.750	223.314	204.950	191.072
71.0	1091.690	998.959	778.614	503.808	274.503	239.313	215.405	197.656	183.690
71.5	1085.659	992.322	770.679	495.273	265.892	230.877	207.674	190.362	176.397
72.0	1079.112	985.251	763.267	487.000	256.926	222.441	199.939	183.068	169.716
72.5	1072.905	978.788	755.681	478.553	247.349	214.093	192.293	176.038	162.247
73.0	1066.444	971.978	748.270	470.368	238.736	205.920	184.824	168.656	155.216
73.5	1060.151	964.992	740.775	461.919	229.862	198.011	177.266	161.450	148.010
74.0	1053.945	958.268	733.014	453.474	221.160	190.014	169.797	154.594	141.158
74.5	1047.221	951.200	725.514	445.116	212.724	182.105	162.503	147.652	134.743
75.0	1040.841	944.476	717.671	437.017	204.200	174.196	155.297	140.799	127.800
75.5	1034.290	937.490	710.177	428.574	195.849	166.463	148.089	133.769	121.208
76.0	1027.652	930.768	703.029	420.304	187.501	158.905	140.797	127.178	114.793
76.5	1021.005	923.696	695.361	412.467	179.153	151.436	133.591	120.323	108.467
77.0	1014.279	917.064	687.866	404.111	171.066	143.966	126.911	113.909	102.578
77.5	1007.552	910.082	680.372	396.363	162.806	136.584	119.970	107.406	96.426
78.0	1001.002	903.361	673.139	388.445	155.072	129.203	113.204	101.166	90.451
78.5	993.923	896.383	665.992	380.961	147.251	121.997	106.525	95.013	84.475
79.0	987.287	889.227	658.675	373.045	139.692	115.055	99.934	88.862	78.411
79.5	980.559	882.508	651.530	365.389	132.047	108.200	93.517	82.710	72.875
80.0	973.663	875.702	644.302	357.824	124.487	101.520	87.278	76.910	67.251
80.5	966.763	868.813	637.071	350.693	117.194	94.841	81.126	71.110	61.803
81.0	960.301	862.183	630.367	343.564	110.162	88.338	75.151	65.486	56.178
81.5	953.663	855.026	623.403	336.437	103.307	82.097	69.261	59.950	50.730
82.0	946.939	848.398	616.699	329.310	96.540	75.945	63.375	54.501	45.635
82.5	940.911	842.384	610.086	322.445	89.774	70.058	57.925	49.491	40.798

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CANDELA TABULATION - (Cont.)

83.0	934.367	835.929	603.298	316.017	83.271	64.082	52.477	44.394	35.791
83.5	928.172	829.386	596.686	309.677	77.032	58.280	47.292	39.385	30.957
84.0	922.149	823.197	590.424	303.343	70.968	52.744	42.195	34.551	26.210
84.5	915.951	816.834	584.077	297.007	64.993	47.383	37.010	29.718	21.818
85.0	910.104	810.382	577.818	291.022	59.193	42.199	32.089	25.236	17.862
85.5	904.343	804.455	571.293	285.037	53.480	37.014	27.342	20.930	14.347
86.0	898.588	798.785	565.034	279.316	47.944	32.005	22.772	17.064	11.798
86.5	893.259	793.632	559.387	273.595	42.584	27.170	18.378	14.074	10.039
87.0	888.361	790.034	553.818	268.312	37.487	22.424	14.512	11.701	8.897
87.5	884.839	787.298	549.635	262.854	32.390	17.853	11.786	10.206	8.192
88.0	883.134	786.029	546.654	257.483	27.205	13.371	9.852	9.151	7.837
88.5	881.851	785.101	544.789	252.798	22.020	9.680	8.796	8.360	7.399
89.0	881.089	784.868	544.313	249.580	16.746	7.923	8.181	8.095	7.309
89.5	880.936	784.722	543.921	248.514	12.261	7.306	7.917	7.831	7.221
90.0	881.036	784.661	543.967	248.576	10.487	7.130	7.828	7.829	7.308
90.5	880.359	784.866	544.018	249.075	12.457	7.128	7.826	7.828	7.218
91.0	880.727	785.509	544.675	251.415	16.759	7.212	7.738	7.914	7.218
91.5	880.921	786.677	546.123	255.513	21.923	8.589	7.824	7.826	7.130
92.0	881.992	788.546	549.412	260.405	26.915	11.084	8.082	7.738	7.302
92.5	883.149	791.726	553.929	265.296	31.733	15.129	8.769	7.996	7.474
93.0	885.535	795.703	559.320	270.969	36.551	19.863	10.490	8.340	8.077
93.5	888.624	800.727	565.063	276.033	41.543	24.596	13.417	9.285	9.454
94.0	893.203	806.452	570.975	281.789	46.793	29.416	17.376	11.179	12.122
94.5	898.747	812.266	576.537	287.459	52.130	34.062	21.937	14.193	15.823
95.0	904.552	818.511	583.058	293.125	57.638	39.140	26.583	17.806	19.952
95.5	910.358	824.844	589.316	299.053	63.318	44.306	31.403	22.196	24.688
96.0	916.425	830.740	595.484	305.151	69.171	49.469	36.569	26.931	29.336
96.5	922.317	836.809	601.828	311.511	75.194	54.891	41.647	31.663	34.328
97.0	928.295	842.968	608.172	317.955	81.391	60.313	46.897	36.655	39.406
97.5	934.447	849.293	614.601	324.397	87.848	66.080	52.234	41.907	44.398
98.0	940.419	855.621	621.035	331.270	94.215	71.933	57.570	46.985	49.474
98.5	946.741	862.121	627.811	338.231	101.016	77.957	63.163	52.320	54.984
99.0	952.975	868.708	634.587	345.102	108.074	84.412	68.931	57.742	60.493
99.5	959.211	875.120	641.447	352.321	115.130	90.782	74.868	63.424	66.261
100.0	965.443	881.706	648.481	359.622	122.360	97.495	80.807	69.105	71.768
100.5	971.678	888.375	655.425	366.926	129.762	104.208	87.004	74.785	77.620
101.0	978.258	894.873	662.545	374.487	137.338	110.922	93.461	80.638	83.387
101.5	984.318	901.366	669.574	381.962	144.996	118.153	99.830	86.577	89.498
102.0	990.895	908.127	676.949	389.610	152.828	124.863	106.457	92.688	95.783
102.5	997.213	914.623	684.064	397.169	160.660	132.439	113.084	98.971	101.980
103.0	1003.709	921.291	691.265	404.817	168.839	141.390	119.884	105.254	108.349
103.5	1010.198	927.875	698.552	412.635	177.101	148.792	126.769	111.709	114.632
104.0	1016.696	934.455	705.926	420.626	185.192	155.073	133.655	118.252	121.345
104.5	1023.009	941.385	713.210	428.444	193.454	162.993	140.884	124.963	128.058
105.0	1029.675	947.881	720.410	436.262	202.061	170.567	148.030	131.765	134.858
105.5	1035.388	954.549	727.868	444.254	210.584	178.572	155.258	138.564	141.657
106.0	1041.962	961.218	735.067	452.330	219.189	187.523	162.662	145.450	148.631
106.5	1048.109	967.626	742.266	460.493	228.056	196.818	170.150	152.423	155.514
107.0	1054.513	974.208	749.551	468.397	236.749	203.618	177.552	159.565	163.004
107.5	1060.918	980.874	756.750	476.561	245.614	210.934	185.298	166.623	169.976
108.0	1067.062	987.368	764.211	484.895	254.481	219.196	192.872	174.198	177.292
108.5	1073.119	993.863	771.582	493.231	263.518	227.633	200.532	181.426	184.523
109.0	1079.609	1000.099	778.869	501.479	272.469	235.980	208.450	189.002	191.925
109.5	1085.580	1007.030	786.152	509.642	281.420	244.416	216.284	196.318	199.241
110.0	1091.811	1013.091	793.267	518.150	290.543	252.937	224.030	203.892	206.903
110.5	1097.869	1019.588	800.120	526.484	299.667	261.458	232.035	211.466	214.391

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CANDELA TABULATION - (Cont.)

111.0	1104.013	1025.652	807.317	534.820	308.876	270.066	240.039	219.128	222.051
111.5	1109.989	1031.974	814.606	543.328	318.086	278.673	247.958	226.874	229.367
112.0	1115.702	1038.300	821.715	551.748	327.295	287.366	256.134	234.620	236.767
112.5	1121.846	1044.538	829.002	560.341	336.764	296.231	264.397	242.281	244.343
113.0	1127.383	1050.776	836.203	568.761	345.887	305.096	272.487	249.941	252.089
113.5	1133.443	1056.927	843.312	577.527	355.097	314.049	280.836	257.859	260.007
114.0	1139.240	1062.815	850.423	585.948	364.564	322.828	289.358	265.691	267.753
114.5	1144.952	1068.879	857.536	594.454	373.688	331.866	299.513	273.784	275.500
115.0	1150.320	1075.033	864.649	603.048	382.985	340.818	310.357	281.788	283.420
115.5	1155.778	1081.097	871.674	611.554	392.366	349.942	318.104	289.620	291.080
116.0	1161.660	1086.728	878.875	620.061	401.748	358.893	323.442	297.625	299.428
116.5	1166.946	1092.796	885.638	628.569	410.957	367.844	330.844	305.629	307.261
117.0	1172.829	1098.861	892.925	637.161	420.341	377.139	340.657	313.806	315.439
117.5	1178.026	1104.405	899.776	645.582	429.894	386.006	351.674	321.638	323.183
118.0	1183.224	1110.381	906.715	654.176	439.017	395.302	360.451	329.902	331.276
118.5	1188.158	1115.930	914.000	662.594	448.485	404.427	366.480	337.733	339.280
119.0	1193.444	1121.304	920.769	671.188	457.868	413.378	373.193	346.169	347.545
119.5	1198.730	1127.538	927.706	679.609	467.250	422.243	381.456	354.260	355.289
120.0	1203.752	1133.175	934.559	687.943	476.805	431.280	389.890	362.522	363.898
120.5	1208.861	1138.637	941.412	696.105	486.101	440.492	398.411	370.701	371.816
121.0	1213.971	1144.010	948.353	704.611	495.138	449.443	406.846	379.049	379.908
121.5	1219.169	1149.647	955.034	712.858	504.606	458.308	415.281	388.947	387.999
122.0	1223.418	1155.109	961.889	721.366	513.987	467.261	424.062	400.224	396.261
122.5	1228.704	1159.534	968.481	729.614	523.196	476.126	432.496	409.862	404.610
123.0	1233.901	1165.171	975.248	737.860	532.494	485.251	441.105	416.233	412.873
123.5	1239.099	1170.456	982.105	746.022	541.875	494.116	449.712	423.893	421.393
124.0	1243.436	1175.145	988.956	754.184	550.998	503.153	458.406	433.879	432.842
124.5	1248.634	1180.518	995.547	762.519	560.382	512.278	467.013	442.313	447.734
125.0	1253.147	1186.068	1002.404	770.765	569.505	520.971	475.792	447.994	457.286
125.5	1257.396	1190.668	1009.169	779.015	578.886	530.009	484.401	454.021	461.763
126.0	1262.506	1196.130	1015.507	786.917	588.010	538.960	493.094	462.023	463.312
126.5	1266.755	1200.906	1022.269	794.993	597.133	547.740	501.615	470.288	470.542
127.0	1271.268	1206.368	1029.469	803.069	606.430	556.864	510.222	478.638	478.805
127.5	1275.693	1210.968	1035.634	810.887	615.640	565.729	518.917	486.901	487.155
128.0	1279.942	1215.657	1041.622	819.047	624.677	574.852	527.697	495.249	495.676
128.5	1284.367	1221.118	1048.735	827.123	634.060	583.977	536.044	503.686	504.025
129.0	1288.792	1225.807	1054.900	835.027	643.356	592.842	545.083	512.291	512.546
129.5	1288.737	1230.407	1061.064	843.017	652.565	601.793	553.948	520.641	521.066
130.0	1293.250	1235.008	1068.177	851.007	661.688	610.745	562.727	528.990	529.589
130.5	1295.954	1239.609	1074.254	859.083	670.813	619.870	571.508	537.339	538.196
131.0	1300.203	1243.261	1080.418	866.899	680.109	628.821	580.027	545.775	546.631
131.5	1301.273	1247.264	1086.582	874.802	689.490	637.686	588.722	554.382	555.153
132.0	1308.016	1251.005	1092.747	882.620	698.700	646.551	597.673	562.903	563.932
132.5	1312.529	1254.657	1098.911	890.438	708.083	655.590	606.366	571.424	572.449
133.0	1314.460	1257.800	1105.076	898.084	717.378	664.455	615.403	579.774	580.976
133.5	1318.709	1260.679	1111.240	905.986	726.417	673.494	624.096	589.414	589.496
134.0	1324.855	1266.228	1117.316	913.977	735.541	682.531	633.049	597.849	598.277
134.5	1326.698	1269.968	1122.620	921.793	744.750	691.310	641.914	606.457	606.710
135.0	1331.035	1275.517	1128.785	929.785	753.959	700.520	650.605	615.150	615.751
135.5	1336.409	1278.309	1134.949	936.740	763.170	709.557	659.560	623.931	624.098
136.0	1338.164	1282.137	1140.850	944.732	772.294	718.596	668.253	632.278	632.879
136.5	1344.222	1285.965	1146.329	952.460	781.331	727.287	677.032	640.973	641.224
137.0	1344.344	1290.477	1151.545	960.364	790.542	736.410	685.897	649.495	650.352
137.5	1349.366	1295.166	1157.797	967.495	799.495	745.539	694.418	658.013	658.959
138.0	1351.209	1298.045	1161.116	975.135	808.527	754.313	703.105	666.532	667.035
138.5	1356.494	1303.594	1165.647	982.179	817.222	763.178	711.974	675.572	676.252

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CANDELA TABULATION - (Cont.)

139.0	1359.461	1305.701	1171.811	989.995	826.173	771.785	720.667	684.093	685.033
139.5	1361.901	1309.353	1176.166	996.862	835.214	780.824	729.362	692.788	693.727
140.0	1364.605	1313.269	1181.558	1003.817	844.079	789.431	737.797	701.309	702.336
140.5	1369.118	1317.185	1184.280	1011.545	853.032	798.384	746.750	710.262	711.633
141.0	1371.733	1320.925	1188.723	1018.413	862.157	807.078	755.615	719.385	720.757
141.5	1375.298	1322.258	1194.887	1026.141	871.194	815.857	764.308	728.336	729.622
142.0	1377.316	1327.035	1199.242	1033.096	879.801	824.636	772.999	737.287	738.573
142.5	1380.020	1330.775	1204.634	1039.964	888.408	833.243	781.606	745.808	747.524
143.0	1384.269	1333.566	1208.989	1047.007	897.015	842.022	790.212	754.415	756.389
143.5	1387.921	1335.673	1213.432	1054.050	906.482	850.973	799.163	763.538	765.342
144.0	1386.321	1338.728	1218.736	1061.093	915.177	859.752	807.769	772.488	774.292
144.5	1391.010	1342.643	1223.179	1068.048	923.872	868.015	816.549	781.353	783.243
145.0	1395.347	1345.611	1226.761	1074.319	932.479	876.622	825.156	789.960	792.540
145.5	1395.556	1348.578	1232.925	1081.362	941.086	885.317	833.761	798.825	801.147
146.0	1398.172	1350.508	1236.420	1087.632	948.919	893.923	842.196	807.432	810.012
146.5	1402.948	1354.424	1240.951	1092.093	957.526	902.530	850.717	816.209	818.877
147.0	1404.879	1356.355	1245.306	1098.276	966.133	911.137	859.582	824.900	827.826
147.5	1408.531	1360.359	1248.976	1102.825	973.967	919.920	868.103	833.679	836.433
148.0	1408.565	1360.744	1253.419	1108.147	982.574	928.439	876.710	842.458	845.470
148.5	1408.862	1362.850	1256.141	1115.190	990.408	936.185	885.404	851.237	854.251
149.0	1411.478	1366.766	1260.584	1121.372	999.103	944.019	893.923	859.842	863.201
149.5	1412.811	1365.430	1263.305	1125.921	1006.849	952.714	902.530	868.191	871.809
150.0	1413.618	1369.170	1267.748	1133.052	1014.595	961.321	911.137	876.798	881.277
150.5	1416.409	1371.276	1273.140	1138.462	1022.342	969.155	919.744	886.265	889.884
151.0	1416.531	1373.383	1274.228	1144.732	1030.176	976.901	927.578	894.784	899.263
151.5	1419.410	1373.856	1279.532	1150.054	1038.010	985.508	936.185	903.479	907.958
152.0	1419.619	1375.189	1281.481	1156.324	1045.844	993.342	944.792	911.998	917.338
152.5	1418.880	1377.296	1285.151	1160.873	1053.590	1001.088	953.487	920.605	926.033
153.0	1419.090	1377.681	1288.821	1167.144	1060.563	1008.922	961.145	928.351	934.639
153.5	1421.881	1379.875	1291.543	1172.553	1064.955	1016.668	969.840	937.818	943.246
154.0	1420.369	1381.209	1293.492	1178.824	1073.562	1025.363	977.586	946.337	952.802
154.5	1422.300	1381.682	1295.264	1183.373	1079.586	1032.248	986.193	954.944	961.496
155.0	1424.143	1382.928	1298.759	1187.922	1084.838	1040.170	994.027	962.691	970.015
155.5	1423.579	1382.628	1301.217	1193.419	1090.951	1047.829	1002.634	971.297	978.710
156.0	1421.119	1383.962	1302.814	1197.880	1098.697	1055.751	1010.468	979.904	987.229
156.5	1423.049	1385.383	1304.587	1203.378	1104.810	1060.054	1018.214	988.423	994.975
157.0	1423.944	1384.908	1307.221	1208.015	1111.783	1067.888	1025.960	996.169	1003.670
157.5	1419.989	1385.469	1308.994	1211.615	1117.808	1074.774	1034.655	1004.776	1012.277
158.0	1420.250	1383.447	1311.031	1216.164	1123.921	1081.659	1042.401	1013.383	1020.884
158.5	1417.947	1384.008	1312.207	1219.940	1130.806	1086.911	1049.286	1021.129	1028.630
159.0	1415.575	1384.569	1314.244	1224.489	1136.919	1093.797	1054.451	1028.876	1037.237
159.5	1417.857	1385.042	1315.420	1229.126	1142.083	1101.543	1064.867	1037.483	1044.983
160.0	1415.045	1384.567	1316.684	1232.814	1149.056	1107.656	1069.170	1045.229	1053.590
160.5	1413.024	1384.003	1318.808	1235.730	1154.309	1114.629	1077.004	1052.975	1061.424
161.0	1413.742	1384.125	1320.072	1239.506	1158.612	1120.654	1083.029	1059.000	1069.943
161.5	1412.072	1380.979	1322.109	1243.194	1165.497	1127.539	1088.281	1066.746	1076.829
162.0	1410.930	1379.643	1320.018	1246.971	1169.801	1133.652	1096.027	1074.492	1080.095
162.5	1407.697	1377.534	1323.003	1248.165	1176.774	1140.625	1102.052	1080.517	1087.666
163.0	1406.782	1378.956	1322.633	1252.802	1181.166	1147.511	1110.747	1086.542	1094.288
163.5	1405.182	1376.161	1323.125	1254.768	1187.190	1152.763	1116.772	1094.288	1101.946
164.0	1405.655	1376.125	1324.389	1257.684	1191.494	1157.927	1122.796	1101.173	1108.744
164.5	1402.861	1373.419	1324.019	1259.651	1196.746	1163.952	1130.630	1109.007	1118.036
165.0	1400.155	1373.295	1324.510	1262.566	1201.910	1170.837	1137.516	1115.032	1124.921
165.5	1395.727	1368.868	1324.228	1265.394	1207.162	1175.229	1142.680	1121.057	1130.946
166.0	1395.691	1367.198	1323.771	1268.310	1211.465	1180.393	1148.793	1128.803	1139.377
166.5	1393.758	1365.440	1324.350	1271.225	1214.908	1186.505	1155.591	1135.689	1147.123

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	1391.649	1363.683	1323.207	1270.786	1219.299	1190.809	1162.564	1141.801	1154.009
167.5	1387.906	1360.380	1322.926	1272.928	1222.830	1195.973	1166.867	1149.636	1160.034
168.0	1381.933	1357.849	1322.644	1275.071	1227.133	1201.225	1173.841	1156.521	1167.007
168.5	1381.036	1355.828	1322.362	1277.302	1231.437	1206.389	1180.814	1163.494	1173.804
169.0	1375.836	1352.858	1320.359	1276.001	1235.828	1211.553	1185.030	1168.659	1179.741
169.5	1373.218	1349.643	1320.077	1278.917	1238.322	1214.996	1191.915	1176.405	1184.818
170.0	1370.599	1346.340	1318.935	1279.426	1240.905	1220.248	1197.167	1181.569	1191.703
170.5	1368.069	1344.846	1316.159	1280.796	1243.574	1224.551	1201.558	1187.681	1197.816
171.0	1362.781	1341.719	1316.826	1281.393	1245.296	1228.855	1205.950	1193.706	1203.068
171.5	1358.617	1338.591	1313.101	1281.990	1249.687	1231.525	1211.202	1199.907	1209.953
172.0	1356.350	1334.691	1312.995	1283.360	1253.218	1235.828	1216.366	1203.350	1214.942
172.5	1352.274	1330.879	1310.219	1283.096	1255.712	1240.132	1221.530	1210.235	1221.739
173.0	1346.565	1327.751	1307.619	1282.920	1257.521	1244.435	1226.694	1215.399	1225.094
173.5	1343.525	1323.851	1306.829	1284.466	1259.155	1246.157	1230.998	1219.703	1231.207
174.0	1340.310	1320.811	1303.368	1284.290	1260.015	1250.460	1234.440	1224.955	1237.144
174.5	1335.285	1315.278	1300.943	1284.115	1262.685	1254.763	1238.656	1230.119	1239.726
175.0	1330.261	1311.465	1298.519	1282.305	1265.267	1257.345	1242.099	1234.334	1244.802
175.5	1325.324	1307.829	1296.182	1284.027	1266.901	1258.979	1246.490	1238.726	1248.245
176.0	1324.006	1304.280	1293.934	1283.939	1268.710	1262.510	1250.706	1243.117	1255.218
176.5	1316.839	1299.186	1291.773	1283.166	1269.483	1264.231	1255.957	1247.508	1257.888
177.0	1313.114	1295.988	1288.067	1283.166	1269.659	1266.813	1256.818	1251.724	1262.192
177.5	1307.581	1291.158	1287.030	1281.445	1271.292	1267.674	1261.122	1255.167	1264.686
178.0	1302.398	1288.224	1285.221	1281.445	1272.153	1270.256	1263.616	1260.419	1271.659
178.5	1296.883	1282.884	1282.639	1280.584	1272.153	1272.838	1266.198	1263.774	1275.875
179.0	1293.176	1281.075	1279.196	1280.584	1273.014	1273.698	1270.589	1267.216	1277.596
179.5	1289.646	1277.720	1277.475	1278.863	1273.014	1275.420	1272.311	1269.886	1284.570
180.0	1276.263	1276.263	1276.263	1276.263	1276.263	1276.263	1276.263	1276.263	1276.263

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-940U-L50-940D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	473.84	N.A.	5.50
0-30	1006.56	N.A.	11.70
0-40	1651.13	N.A.	19.20
0-60	2990.57	N.A.	34.70
0-80	4005.26	N.A.	46.50
0-90	4324.00	N.A.	50.20
10-90	4201.59	N.A.	48.80
20-40	1177.29	N.A.	13.70
20-50	1860.73	N.A.	21.60
40-70	1909.74	N.A.	22.20
60-80	1014.69	N.A.	11.80
70-80	444.39	N.A.	5.20
80-90	318.74	N.A.	3.70
90-110	760.26	N.A.	8.80
90-120	1326.54	N.A.	15.40
90-130	1977.91	N.A.	23.00
90-150	3294.89	N.A.	38.20
90-180	4290.27	N.A.	49.80
110-180	3530.01	N.A.	41.00
0-180	8614.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.41
10-20	351.44
20-30	532.72
30-40	644.57
40-50	683.45
50-60	656.00
60-70	570.30
70-80	444.39
80-90	318.74
90-100	318.27
100-110	441.99
110-120	566.28
120-130	651.36
130-140	678.22
140-150	638.76
150-160	527.04
160-170	347.31
170-180	121.03

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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	45	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-L50-940U-L50-940D-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	21.3	22.2	22.2	23.2	24.4	15.3	16.2	16.2	17.2	18.4
	3H	24.4	25.2	25.3	26.2	27.5	16.6	17.5	17.6	18.4	19.7
	4H	26.0	26.7	26.9	27.7	29.0	17.1	17.9	18.0	18.8	20.1
	6H	27.7	28.4	28.6	29.4	30.7	17.3	18.0	18.3	19.0	20.3
	8H	28.6	29.3	29.5	30.3	31.6	17.4	18.1	18.3	19.1	20.4
	12H	29.6	30.2	30.6	31.2	32.6	17.4	18.0	18.4	19.0	20.4

UGR Viewed Endwise

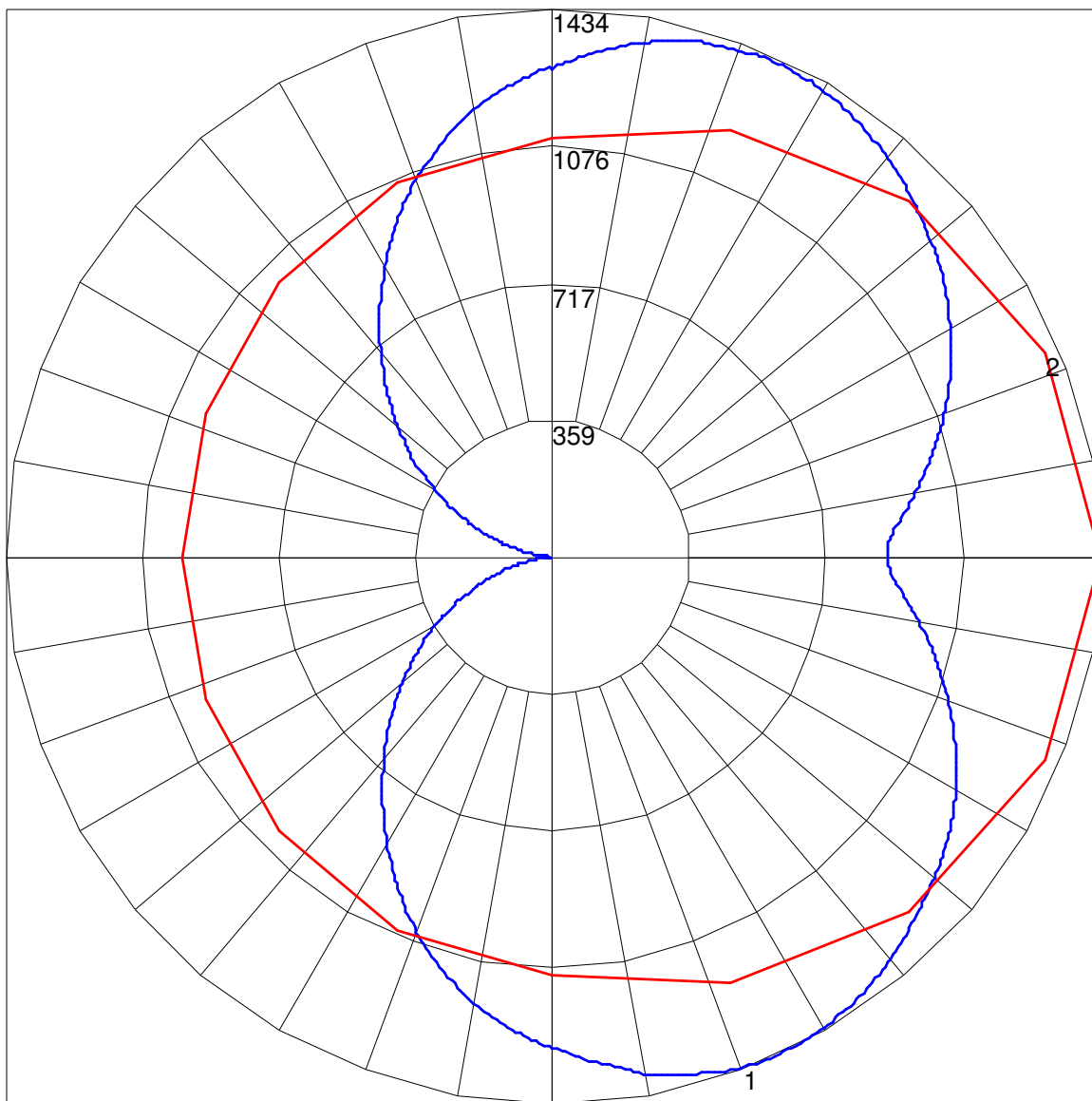
4H	2H	21.6	22.3	22.5	23.3	24.6	16.5	17.3	17.5	18.3	19.6
	3H	24.9	25.5	25.9	26.5	27.9	18.2	18.8	19.2	19.8	21.2
	4H	26.6	27.3	27.6	28.3	29.6	18.7	19.4	19.7	20.4	21.7
	6H	28.5	29.1	29.6	30.1	31.4	19.1	19.7	20.1	20.7	22.0
	8H	29.6	30.0	30.6	31.1	32.4	19.2	19.7	20.2	20.7	22.1
	12H	30.7	31.1	31.7	32.2	33.5	19.3	19.7	20.3	20.8	22.1

8H	4H	26.8	27.3	27.8	28.3	29.6	19.9	20.4	20.9	21.4	22.7
	6H	28.8	29.3	29.9	30.3	31.7	20.5	20.9	21.5	22.0	23.3
	8H	30.0	30.4	31.0	31.4	32.8	20.7	21.1	21.7	22.1	23.5
	12H	31.3	31.6	32.3	32.7	34.1	20.8	21.2	21.9	22.2	23.6

12H	4H	26.7	27.2	27.8	28.2	29.6	20.2	20.7	21.2	21.7	23.0
	6H	28.9	29.2	29.9	30.3	31.7	21.0	21.4	22.1	22.4	23.8
	8H	30.1	30.4	31.1	31.4	32.8	21.3	21.7	22.4	22.7	24.1

Maximum UGR = 34.1

POLAR GRAPH



Maximum Candela = 1434.274 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.)