

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-827U-L50-827D-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-L50-827U-L50-827D-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	9716
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	20061	18996	18211
55	19942	18177	16705
65	19976	17547	14925
75	20324	17151	12315
85	21364	17542	8599

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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	1454.088	1454.088	1454.088	1454.088	1454.088	1454.088	1454.088	1454.088	1454.088
0.5	1456.132	1458.559	1455.856	1461.394	1451.482	1459.024	1449.229	1449.153	1449.291
1.0	1460.096	1462.017	1461.200	1462.580	1450.588	1456.847	1445.070	1444.994	1445.229
1.5	1465.343	1466.662	1462.774	1465.747	1450.588	1452.785	1442.894	1439.941	1438.290
2.0	1469.793	1472.394	1466.330	1466.039	1449.500	1449.715	1438.929	1435.879	1434.229
2.5	1476.226	1476.339	1471.071	1467.321	1448.509	1447.732	1434.965	1432.905	1430.361
3.0	1480.482	1482.265	1474.821	1467.612	1447.518	1445.750	1431.991	1426.958	1425.308
3.5	1486.117	1487.492	1477.580	1470.974	1447.518	1441.688	1427.035	1422.897	1422.334
4.0	1493.541	1492.719	1482.322	1471.265	1445.438	1437.723	1425.053	1417.941	1415.396
4.5	1496.903	1497.051	1486.072	1470.662	1444.447	1436.732	1420.097	1412.985	1409.352
5.0	1498.768	1502.472	1489.316	1473.927	1442.465	1431.776	1414.150	1407.932	1403.502
5.5	1505.686	1506.902	1490.384	1474.315	1439.491	1426.821	1411.176	1402.976	1400.529
6.0	1510.330	1510.437	1493.240	1473.713	1437.412	1425.732	1407.211	1398.914	1394.485
6.5	1514.080	1517.141	1496.193	1473.207	1435.526	1421.865	1402.062	1391.879	1388.634
7.0	1517.830	1521.376	1498.155	1473.401	1434.438	1418.697	1397.106	1385.835	1381.599
7.5	1521.657	1524.912	1500.214	1472.992	1429.385	1413.741	1391.159	1380.879	1374.661
8.0	1529.019	1527.456	1502.758	1470.407	1426.412	1408.785	1386.203	1374.835	1367.723
8.5	1535.544	1531.186	1505.303	1471.883	1425.421	1405.812	1381.150	1368.888	1360.881
9.0	1544.460	1535.110	1507.556	1470.290	1420.465	1400.759	1375.105	1360.861	1353.943
9.5	1548.869	1538.528	1508.915	1470.775	1417.394	1394.812	1369.158	1354.817	1351.961
10.0	1553.784	1543.831	1510.177	1469.375	1414.421	1390.750	1364.203	1348.870	1341.058
10.5	1558.602	1546.958	1512.430	1467.878	1409.465	1385.891	1358.158	1341.835	1336.199
11.0	1561.535	1549.191	1513.789	1465.487	1407.385	1380.838	1351.123	1336.879	1329.261
11.5	1564.176	1552.706	1514.157	1463.096	1401.438	1374.891	1345.273	1328.852	1320.340
12.0	1565.826	1555.230	1515.516	1462.687	1397.474	1371.820	1339.229	1321.914	1312.508
12.5	1571.539	1559.737	1515.981	1460.296	1394.403	1363.794	1332.291	1314.976	1305.570
13.0	1574.763	1562.164	1516.640	1457.905	1390.438	1358.838	1325.255	1306.949	1295.852
13.5	1577.287	1565.388	1517.300	1456.505	1383.500	1352.891	1319.211	1298.923	1290.099
14.0	1582.084	1567.426	1518.056	1454.211	1380.429	1344.864	1310.291	1290.993	1281.470
14.5	1585.405	1569.562	1516.636	1450.732	1375.473	1339.909	1303.255	1283.064	1272.646
15.0	1585.461	1570.609	1517.101	1448.438	1368.438	1333.864	1296.317	1275.134	1263.823
15.5	1587.521	1571.754	1516.963	1443.967	1362.491	1327.820	1288.291	1266.214	1258.867
16.0	1588.394	1573.890	1515.834	1440.294	1357.438	1320.882	1282.246	1258.284	1246.876
16.5	1592.666	1576.025	1517.678	1438.991	1352.482	1313.944	1274.317	1251.346	1240.929
17.0	1597.346	1575.188	1517.540	1434.521	1347.526	1305.917	1267.282	1242.329	1235.079
17.5	1598.082	1578.411	1516.314	1428.962	1340.491	1300.864	1258.264	1236.284	1225.070
18.0	1600.897	1577.574	1515.088	1426.668	1333.553	1290.855	1249.343	1227.364	1218.132
18.5	1604.703	1578.815	1513.571	1422.391	1326.517	1284.908	1245.282	1222.408	1209.114
19.0	1603.748	1580.057	1513.238	1419.300	1320.570	1276.882	1237.352	1213.487	1200.193
19.5	1608.234	1580.210	1510.730	1415.315	1313.535	1270.838	1228.335	1204.567	1190.185
20.0	1610.446	1579.566	1510.398	1410.048	1307.588	1262.908	1224.370	1195.646	1181.264
20.5	1611.085	1580.808	1506.995	1405.772	1301.544	1254.882	1215.352	1186.629	1171.255
21.0	1611.627	1580.067	1505.672	1399.901	1292.623	1246.952	1206.432	1177.708	1162.334
21.5	1613.257	1580.512	1503.261	1396.907	1286.579	1242.891	1198.502	1167.796	1152.423
22.0	1615.372	1580.159	1500.946	1393.019	1278.650	1232.979	1189.485	1158.876	1142.414
22.5	1616.593	1579.807	1498.535	1387.946	1270.623	1225.846	1180.467	1149.955	1133.493
23.0	1615.735	1580.349	1496.220	1382.775	1263.588	1215.935	1171.546	1140.043	1123.484
23.5	1615.965	1579.296	1494.800	1375.622	1254.667	1211.970	1162.529	1130.131	1113.573
24.0	1617.089	1579.138	1491.495	1371.832	1248.720	1203.944	1153.511	1121.114	1102.670
24.5	1617.728	1578.786	1489.180	1366.058	1239.703	1195.023	1144.590	1111.299	1093.749
25.0	1616.384	1578.530	1484.883	1361.879	1236.729	1185.908	1135.573	1101.290	1083.740
25.5	1614.049	1576.293	1482.569	1356.806	1229.694	1176.987	1126.652	1091.378	1072.837
26.0	1614.688	1575.746	1479.263	1348.759	1222.755	1167.970	1116.643	1082.458	1063.820
26.5	1613.442	1573.217	1476.055	1342.597	1213.738	1159.049	1107.626	1072.546	1052.820

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CANDELA TABULATION - (Cont.)

27.0	1611.204	1571.679	1473.935	1337.524	1204.720	1149.935	1097.714	1062.634	1042.908
27.5	1611.143	1571.133	1467.947	1332.450	1196.694	1141.014	1088.696	1052.625	1032.899
28.0	1611.781	1568.604	1464.038	1323.315	1187.773	1131.005	1079.678	1042.714	1021.996
28.5	1609.155	1566.075	1461.024	1319.136	1179.844	1122.084	1069.767	1032.802	1011.987
29.0	1607.015	1565.528	1458.010	1311.089	1169.932	1113.067	1059.855	1021.899	1002.075
29.5	1606.565	1561.017	1454.198	1302.848	1160.914	1103.155	1049.846	1011.987	991.668
30.0	1605.804	1558.294	1450.193	1297.678	1151.897	1093.049	1040.925	1001.978	981.364
30.5	1603.275	1556.056	1446.187	1290.622	1142.976	1084.129	1030.917	991.967	971.450
31.0	1602.923	1554.518	1442.279	1283.372	1134.055	1074.120	1021.005	981.957	961.144
31.5	1600.782	1552.786	1436.291	1280.184	1125.038	1064.208	1011.093	972.144	950.937
32.0	1597.456	1550.257	1433.374	1271.943	1115.126	1055.190	1001.084	961.933	941.122
32.5	1598.095	1546.737	1428.280	1267.764	1106.108	1045.181	991.073	952.021	930.719
33.0	1592.689	1545.297	1424.080	1260.708	1097.188	1035.270	981.062	941.616	920.311
33.5	1593.619	1540.688	1418.889	1252.564	1087.179	1025.261	971.151	931.605	910.301
34.0	1592.276	1537.265	1412.707	1245.411	1077.267	1015.349	961.142	921.792	899.895
34.5	1589.144	1533.745	1406.525	1237.170	1067.258	1006.331	951.131	911.583	889.785
35.0	1585.430	1530.225	1402.423	1229.026	1057.346	996.122	941.318	901.572	879.972
35.5	1583.095	1527.793	1398.126	1221.873	1048.426	986.113	931.505	891.462	869.664
36.0	1579.360	1522.291	1392.138	1213.729	1038.514	976.102	921.495	881.550	859.358
36.5	1577.220	1518.770	1387.939	1205.585	1027.611	966.094	911.089	871.837	849.149
37.0	1573.796	1516.339	1380.668	1197.344	1017.602	956.380	901.376	861.630	838.841
37.5	1570.762	1510.933	1374.389	1189.200	1007.690	946.074	891.464	851.321	829.129
38.0	1569.515	1506.422	1370.384	1181.056	997.779	936.063	881.354	841.608	818.625
38.5	1563.313	1502.999	1362.219	1172.912	987.671	925.854	871.442	831.500	808.217
39.0	1560.278	1500.567	1356.931	1163.777	977.362	916.043	861.332	821.588	798.107
39.5	1555.961	1495.064	1357.688	1155.536	967.351	906.032	851.619	811.478	788.096
40.0	1554.812	1491.641	1351.603	1147.392	957.043	895.724	841.808	801.568	778.383
40.5	1548.803	1488.024	1345.518	1138.257	946.737	885.715	831.599	791.654	768.372
41.0	1544.292	1482.813	1339.239	1130.016	936.726	875.704	821.687	781.646	758.167
41.5	1539.275	1478.302	1333.154	1121.075	926.220	865.299	811.577	771.932	748.352
42.0	1538.028	1474.684	1325.883	1113.028	916.010	855.782	801.667	761.824	738.542
42.5	1533.905	1470.270	1319.701	1104.981	905.702	845.674	791.657	751.714	728.826
43.0	1528.791	1462.785	1313.325	1097.128	895.396	835.465	781.745	742.199	718.522
43.5	1526.359	1459.265	1307.240	1088.187	884.592	825.255	771.536	731.992	708.905
44.0	1521.148	1454.754	1300.164	1079.246	874.482	815.247	761.327	721.981	699.489
44.5	1517.025	1450.340	1292.797	1070.208	863.976	805.335	751.318	712.170	689.679
45.0	1513.990	1446.820	1286.712	1062.064	853.668	794.830	741.406	702.060	680.064
45.5	1507.497	1440.423	1279.539	1053.127	843.361	784.718	731.098	692.347	669.956
46.0	1507.047	1436.009	1272.365	1044.290	832.855	774.509	721.186	682.534	660.243
46.5	1501.039	1433.480	1266.183	1035.351	822.445	764.401	710.977	672.525	650.926
47.0	1498.801	1431.942	1259.010	1026.216	811.644	754.291	700.966	662.909	641.512
47.5	1495.475	1427.819	1251.740	1017.572	800.939	743.983	690.957	652.999	631.501
48.0	1491.449	1422.025	1244.858	1008.928	790.333	733.379	681.142	643.583	621.787
48.5	1484.956	1416.814	1237.393	1000.185	779.926	723.071	670.935	633.772	612.173
49.0	1480.930	1411.312	1230.317	991.145	769.521	712.862	660.924	624.257	602.360
49.5	1477.001	1405.809	1223.047	982.107	759.014	702.851	651.112	614.644	593.043
50.0	1477.543	1401.492	1215.777	973.267	748.409	692.644	641.301	605.030	583.230
50.5	1470.446	1395.989	1208.701	964.134	737.902	682.138	631.191	595.909	573.717
51.0	1469.102	1390.681	1201.625	955.297	727.495	672.028	621.378	586.198	564.105
51.5	1464.182	1385.276	1193.363	946.159	717.087	661.620	611.367	576.583	554.788
52.0	1459.262	1378.782	1185.996	936.630	706.482	651.609	601.753	567.169	545.669
52.5	1455.042	1373.377	1178.920	927.693	696.074	641.501	591.942	557.753	536.154
53.0	1449.831	1367.777	1170.755	918.359	685.568	631.193	582.031	548.337	526.539
53.5	1444.620	1362.469	1163.386	909.127	675.359	620.786	572.119	539.020	516.927
54.0	1439.797	1356.869	1155.719	899.695	664.755	610.775	562.306	529.405	508.401
54.5	1434.586	1350.764	1147.753	890.163	654.546	600.863	552.595	520.189	498.988

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55.0	1429.569	1345.164	1140.185	880.931	644.139	590.557	542.782	510.674	489.471
55.5	1424.454	1338.671	1132.713	871.300	633.831	580.152	533.071	501.258	480.352
56.0	1419.437	1333.265	1124.947	861.969	623.324	570.139	523.454	492.238	470.740
56.5	1414.614	1326.772	1116.882	852.239	612.915	559.932	513.445	482.525	461.918
57.0	1409.500	1321.463	1108.920	842.608	602.410	549.919	504.126	473.606	453.194
57.5	1403.395	1315.067	1101.247	832.979	592.100	539.515	494.613	463.992	443.582
58.0	1397.989	1308.476	1093.382	823.051	581.397	529.403	484.800	454.972	434.364
58.5	1393.166	1302.080	1085.323	813.423	570.891	519.392	475.384	445.754	425.047
59.0	1388.052	1295.877	1076.962	803.495	560.186	509.284	465.968	436.437	416.225
59.5	1382.044	1289.189	1069.190	793.568	549.382	499.075	456.651	427.417	407.205
60.0	1375.550	1282.696	1060.832	783.940	538.777	488.769	447.334	418.298	398.087
60.5	1369.639	1276.299	1053.066	774.311	528.270	478.659	437.820	409.279	388.968
61.0	1364.525	1269.801	1045.002	764.879	517.863	468.450	428.305	400.160	379.948
61.5	1358.322	1263.308	1036.939	755.151	507.257	458.538	418.790	391.041	370.829
62.0	1351.129	1256.418	1028.479	745.223	496.848	448.331	409.671	381.924	362.107
62.5	1345.024	1249.622	1020.511	735.495	486.143	438.320	400.156	372.706	352.889
63.0	1338.918	1243.125	1012.551	725.767	475.835	428.012	390.642	363.687	344.067
63.5	1332.813	1235.937	1004.488	716.037	465.328	417.803	381.323	354.764	334.949
64.0	1326.805	1228.948	996.028	706.309	454.822	408.089	371.907	345.546	326.426
64.5	1319.708	1222.058	988.066	696.582	444.416	397.979	362.293	336.526	318.198
65.0	1312.911	1215.168	979.311	686.457	433.910	388.067	352.678	327.606	308.980
65.5	1306.019	1207.881	971.246	676.432	423.305	377.957	343.461	318.586	300.257
66.0	1299.319	1200.394	963.084	666.706	412.994	367.849	333.846	309.764	291.733
66.5	1293.011	1193.209	954.430	656.879	402.688	357.740	324.630	300.646	283.209
67.0	1285.915	1186.019	946.365	647.052	392.378	347.828	315.608	291.923	274.982
67.5	1279.018	1178.830	937.707	636.928	382.067	338.114	306.390	283.102	266.359
68.0	1272.219	1171.349	929.251	626.905	371.266	328.500	297.075	274.380	257.538
68.5	1265.024	1163.862	920.893	616.979	360.858	318.390	287.758	265.657	248.815
69.0	1258.724	1156.478	912.135	607.253	350.649	308.775	278.540	256.935	240.787
69.5	1251.628	1149.291	903.973	597.625	340.440	298.864	269.816	248.411	232.461
70.0	1244.925	1141.802	895.220	587.996	330.132	289.249	260.798	239.887	224.133
70.5	1238.025	1134.220	886.760	578.268	319.925	279.439	251.878	231.164	215.512
71.0	1231.325	1126.733	878.204	568.249	309.614	269.923	242.957	222.937	207.186
71.5	1224.522	1119.246	869.255	558.622	299.901	260.408	234.237	214.711	198.959
72.0	1217.138	1111.272	860.894	549.291	289.789	250.893	225.512	206.484	191.424
72.5	1210.137	1103.981	852.337	539.763	278.987	241.476	216.889	198.554	182.999
73.0	1202.850	1096.300	843.979	530.531	269.271	232.258	208.464	190.228	175.070
73.5	1195.751	1088.421	835.525	521.001	259.263	223.338	199.940	182.101	166.942
74.0	1188.752	1080.837	826.772	511.476	249.448	214.318	191.515	174.368	159.213
74.5	1181.168	1072.865	818.313	502.050	239.933	205.398	183.288	166.537	151.977
75.0	1173.972	1065.281	809.466	492.914	230.318	196.477	175.161	158.808	144.147
75.5	1166.583	1057.402	801.013	483.391	220.900	187.755	167.031	150.879	136.711
76.0	1159.096	1049.820	792.952	474.064	211.484	179.231	158.806	143.445	129.476
76.5	1151.599	1041.843	784.302	465.224	202.068	170.805	150.679	135.714	122.341
77.0	1144.013	1034.363	775.848	455.800	192.947	162.381	143.143	128.478	115.698
77.5	1136.425	1026.487	767.397	447.061	183.630	154.055	135.315	121.144	108.760
78.0	1129.037	1018.908	759.239	438.130	174.907	145.729	127.683	114.106	102.020
78.5	1121.052	1011.036	751.178	429.689	166.086	137.601	120.150	107.166	95.280
79.0	1113.568	1002.965	742.924	420.760	157.560	129.771	112.716	100.228	88.441
79.5	1105.979	995.387	734.865	412.125	148.936	122.040	105.479	93.289	82.196
80.0	1098.201	987.710	726.713	403.592	140.410	114.505	98.441	86.748	75.853
80.5	1090.419	979.940	718.557	395.549	132.183	106.972	91.503	80.206	69.707
81.0	1083.130	972.462	710.995	387.509	124.252	99.637	84.763	73.862	63.364
81.5	1075.644	964.390	703.140	379.470	116.521	92.598	78.120	67.618	57.219
82.0	1068.060	956.914	695.579	371.431	108.889	85.659	71.481	61.472	51.472
82.5	1061.261	950.131	688.121	363.688	101.257	79.018	65.334	55.821	46.016

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CANDELA TABULATION - (Cont.)

83.0	1053.879	942.850	680.464	356.438	93.922	72.278	59.189	50.072	40.369
83.5	1046.892	935.471	673.006	349.287	86.885	65.735	53.341	44.422	34.917
84.0	1040.099	928.490	665.944	342.142	80.046	59.490	47.592	38.971	29.563
84.5	1033.107	921.312	658.785	334.996	73.305	53.444	41.744	33.519	24.609
85.0	1026.513	914.036	651.725	328.246	66.764	47.596	36.193	28.464	20.147
85.5	1020.015	907.350	644.366	321.495	60.321	41.748	30.839	23.608	16.182
86.0	1013.523	900.956	637.306	315.043	54.077	36.098	25.685	19.246	13.307
86.5	1007.513	895.144	630.936	308.590	48.030	30.645	20.729	15.874	11.323
87.0	1001.988	891.085	624.655	302.630	42.282	25.293	16.368	13.198	10.034
87.5	998.016	887.999	619.937	296.475	36.533	20.136	13.293	11.511	9.239
88.0	996.093	886.568	616.575	290.416	30.685	15.081	11.113	10.322	8.839
88.5	994.646	885.521	614.472	285.133	24.837	10.918	9.921	9.430	8.345
89.0	993.787	885.258	613.935	281.503	18.888	8.936	9.227	9.130	8.244
89.5	993.613	885.093	613.492	280.301	13.829	8.240	8.930	8.833	8.145
90.0	993.727	885.025	613.544	280.370	11.828	8.042	8.829	8.831	8.242
90.5	992.963	885.256	613.601	280.934	14.051	8.040	8.827	8.829	8.141
91.0	993.378	885.981	614.342	283.572	18.902	8.135	8.728	8.926	8.141
91.5	993.597	887.298	615.975	288.195	24.727	9.688	8.825	8.827	8.042
92.0	994.805	889.407	619.686	293.712	30.358	12.501	9.116	8.728	8.236
92.5	996.110	892.994	624.780	299.229	35.792	17.064	9.890	9.019	8.430
93.0	998.801	897.479	630.861	305.628	41.226	22.403	11.832	9.407	9.110
93.5	1002.285	903.145	637.339	311.340	46.857	27.743	15.133	10.473	10.663
94.0	1007.450	909.602	644.007	317.832	52.778	33.179	19.598	12.609	13.672
94.5	1013.702	916.161	650.280	324.226	58.797	38.419	24.743	16.008	17.847
95.0	1020.251	923.205	657.635	330.617	65.010	44.147	29.983	20.084	22.505
95.5	1026.799	930.348	664.694	337.303	71.417	49.973	35.420	25.035	27.846
96.0	1033.642	936.997	671.650	344.182	78.019	55.796	41.247	30.376	33.088
96.5	1040.288	943.842	678.806	351.355	84.812	61.912	46.974	35.713	38.718
97.0	1047.030	950.789	685.961	358.624	91.802	68.028	52.896	41.344	44.446
97.5	1053.969	957.924	693.213	365.890	99.084	74.532	58.915	47.267	50.077
98.0	1060.705	965.061	700.469	373.642	106.266	81.133	64.933	52.995	55.802
98.5	1067.836	972.392	708.112	381.493	113.937	87.929	71.242	59.012	62.017
99.0	1074.867	979.822	715.755	389.243	121.898	95.209	77.748	65.128	68.230
99.5	1081.901	987.054	723.492	397.385	129.856	102.393	84.444	71.537	74.736
100.0	1088.930	994.482	731.426	405.621	138.010	109.965	91.142	77.944	80.947
100.5	1095.962	1002.005	739.259	413.858	146.359	117.537	98.132	84.351	87.549
101.0	1103.384	1009.334	747.290	422.387	154.904	125.109	105.415	90.952	94.053
101.5	1110.219	1016.657	755.217	430.818	163.542	133.266	112.599	97.651	100.945
102.0	1117.637	1024.283	763.535	439.443	172.376	140.834	120.073	104.543	108.034
102.5	1124.764	1031.610	771.560	447.970	181.210	149.379	127.549	111.630	115.023
103.0	1132.091	1039.131	779.682	456.596	190.434	159.475	135.218	118.716	122.207
103.5	1139.409	1046.557	787.901	465.413	199.754	167.823	142.984	125.997	129.294
104.0	1146.738	1053.979	796.219	474.427	208.879	174.908	150.750	133.377	136.866
104.5	1153.859	1061.795	804.434	483.245	218.198	183.841	158.905	140.947	144.438
105.0	1161.378	1069.122	812.556	492.063	227.906	192.384	166.964	148.618	152.107
105.5	1167.821	1076.643	820.967	501.077	237.519	201.412	175.117	156.287	159.776
106.0	1175.237	1084.164	829.087	510.186	247.225	211.508	183.467	164.054	167.642
106.5	1182.169	1091.392	837.207	519.394	257.226	221.993	191.913	171.919	175.406
107.0	1189.393	1098.816	845.423	528.309	267.031	229.662	200.262	179.975	183.853
107.5	1196.617	1106.335	853.543	537.517	277.029	237.913	208.999	187.935	191.717
108.0	1203.547	1113.660	861.958	546.917	287.031	247.233	217.541	196.480	199.968
108.5	1210.378	1120.985	870.273	556.319	297.224	256.748	226.181	204.632	208.125
109.0	1217.699	1128.018	878.491	565.622	307.320	266.163	235.113	213.177	216.474
109.5	1224.433	1135.837	886.706	574.828	317.416	275.679	243.948	221.429	224.725
110.0	1231.461	1142.672	894.731	584.425	327.706	285.289	252.685	229.971	233.367
110.5	1238.294	1150.001	902.461	593.825	337.996	294.900	261.714	238.514	241.813

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111.0	1245.224	1156.840	910.578	603.227	348.384	304.610	270.742	247.156	250.453
111.5	1251.965	1163.971	918.799	612.823	358.771	314.317	279.673	255.893	258.704
112.0	1258.408	1171.106	926.818	622.321	369.158	324.122	288.895	264.630	267.051
112.5	1265.338	1178.141	935.037	632.012	379.839	334.121	298.215	273.270	275.596
113.0	1271.583	1185.177	943.159	641.510	390.129	344.120	307.340	281.910	284.333
113.5	1278.418	1192.116	951.178	651.397	400.516	354.218	316.757	290.841	293.264
114.0	1284.956	1198.757	959.198	660.894	411.195	364.120	326.369	299.675	302.001
114.5	1291.399	1205.596	967.221	670.489	421.485	374.313	337.822	308.803	310.738
115.0	1297.454	1212.537	975.244	680.182	431.971	384.412	350.054	317.831	319.671
115.5	1303.610	1219.376	983.167	689.777	442.553	394.702	358.791	326.665	328.311
116.0	1310.245	1225.728	991.289	699.371	453.134	404.798	364.812	335.693	337.728
116.5	1316.207	1232.572	998.918	708.967	463.522	414.894	373.161	344.721	346.562
117.0	1322.842	1239.414	1007.136	718.659	474.105	425.378	384.230	353.943	355.786
117.5	1328.704	1245.666	1014.864	728.156	484.881	435.379	396.656	362.778	364.521
118.0	1334.567	1252.407	1022.691	737.850	495.171	445.864	406.555	372.099	373.648
118.5	1340.132	1258.666	1030.907	747.345	505.849	456.156	413.355	380.931	382.676
119.0	1346.094	1264.727	1038.542	757.038	516.433	466.252	420.927	390.447	391.998
119.5	1352.055	1271.758	1046.366	766.535	527.014	476.251	430.247	399.572	400.733
120.0	1357.720	1278.116	1054.096	775.936	537.792	486.444	439.760	408.891	410.443
120.5	1363.483	1284.276	1061.825	785.142	548.276	496.834	449.371	418.116	419.374
121.0	1369.247	1290.337	1069.654	794.736	558.470	506.930	458.884	427.532	428.501
121.5	1375.109	1296.695	1077.189	804.037	569.148	516.928	468.398	438.696	437.626
122.0	1379.902	1302.855	1084.921	813.634	579.730	527.027	478.302	451.416	446.946
122.5	1385.864	1307.846	1092.357	822.937	590.117	537.026	487.815	462.286	456.362
123.0	1391.726	1314.204	1099.989	832.238	600.603	547.318	497.525	469.472	465.682
123.5	1397.589	1320.166	1107.723	841.444	611.185	557.317	507.233	478.112	475.293
124.0	1402.480	1325.454	1115.450	850.650	621.475	567.510	517.040	489.375	488.206
124.5	1408.343	1331.515	1122.885	860.050	632.058	577.802	526.748	498.888	505.002
125.0	1413.433	1337.774	1130.618	869.351	642.349	587.607	536.650	505.296	515.776
125.5	1418.226	1342.963	1138.248	878.656	652.930	597.800	546.359	512.093	520.826
126.0	1423.989	1349.123	1145.398	887.569	663.220	607.896	556.164	521.119	522.573
126.5	1428.782	1354.510	1153.024	896.678	673.510	617.800	565.775	530.441	530.728
127.0	1433.872	1360.670	1161.146	905.787	683.997	628.091	575.483	539.859	540.047
127.5	1438.863	1365.860	1168.099	914.605	694.384	638.090	585.289	549.179	549.466
128.0	1443.656	1371.148	1174.853	923.809	704.577	648.380	595.193	558.595	559.077
128.5	1448.646	1377.308	1182.876	932.918	715.161	658.672	604.608	568.111	568.493
129.0	1453.637	1382.596	1189.829	941.832	725.645	668.671	614.803	577.817	578.104
129.5	1453.576	1387.785	1196.782	950.844	736.033	678.767	624.802	587.235	587.714
130.0	1458.666	1392.974	1204.804	959.856	746.323	688.863	634.704	596.652	597.327
130.5	1461.716	1398.163	1211.658	968.965	756.615	699.155	644.608	606.068	607.035
131.0	1466.508	1402.283	1218.611	977.781	767.099	709.251	654.217	615.584	616.548
131.5	1467.715	1406.798	1225.564	986.696	777.681	719.250	664.024	625.292	626.161
132.0	1475.321	1411.017	1232.517	995.514	788.068	729.249	674.120	634.902	636.063
132.5	1480.411	1415.136	1239.470	1004.331	798.652	739.444	683.924	644.513	645.670
133.0	1482.589	1418.681	1246.422	1012.955	809.136	749.443	694.117	653.932	655.287
133.5	1487.381	1421.928	1253.375	1021.868	819.331	759.639	703.922	664.804	664.897
134.0	1494.314	1428.188	1260.229	1030.881	829.621	769.832	714.020	674.318	674.801
134.5	1496.392	1432.406	1266.211	1039.697	840.009	779.734	724.019	684.028	684.313
135.0	1501.284	1438.665	1273.164	1048.711	850.396	790.121	733.822	693.832	694.510
135.5	1507.345	1441.813	1280.117	1056.556	860.785	800.314	743.922	703.736	703.924
136.0	1509.324	1446.131	1286.772	1065.570	871.076	810.509	753.727	713.151	713.828
136.5	1516.158	1450.448	1292.953	1074.287	881.269	820.312	763.629	722.958	723.241
137.0	1516.295	1455.538	1298.836	1083.201	891.658	830.602	773.628	732.570	733.537
137.5	1521.959	1460.827	1305.888	1091.245	901.756	840.899	783.239	742.177	743.245
138.0	1524.038	1464.074	1309.631	1099.862	911.943	850.794	793.038	751.786	752.354
138.5	1529.999	1470.333	1314.741	1107.806	921.750	860.793	803.040	761.983	762.749

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CANDELA TABULATION - (Cont.)

139.0	1533.346	1472.709	1321.694	1116.622	931.846	870.501	812.845	771.593	772.653
139.5	1536.098	1476.828	1326.606	1124.368	942.043	880.696	822.652	781.400	782.460
140.0	1539.147	1481.245	1332.688	1132.213	952.042	890.404	832.166	791.011	792.170
140.5	1544.237	1485.662	1335.757	1140.929	962.140	900.502	842.264	801.109	802.656
141.0	1547.188	1489.880	1340.768	1148.675	972.433	910.309	852.263	811.399	812.947
141.5	1551.208	1491.384	1347.721	1157.391	982.626	920.211	862.068	821.495	822.946
142.0	1553.485	1496.772	1352.634	1165.236	992.334	930.113	871.870	831.591	833.042
142.5	1556.534	1500.990	1358.715	1172.982	1002.041	939.821	881.578	841.202	843.138
143.0	1561.327	1504.139	1363.627	1180.926	1011.749	949.723	891.286	850.910	853.137
143.5	1565.446	1506.514	1368.638	1188.870	1022.428	959.819	901.382	861.200	863.235
144.0	1563.641	1509.960	1374.620	1196.814	1032.235	969.721	911.088	871.294	873.329
144.5	1568.930	1514.377	1379.632	1204.659	1042.041	979.040	920.992	881.293	883.425
145.0	1573.821	1517.724	1383.672	1211.732	1051.749	988.748	930.699	891.001	893.911
145.5	1574.058	1521.070	1390.625	1219.676	1061.457	998.555	940.405	901.000	903.619
146.0	1577.008	1523.248	1394.566	1226.748	1070.293	1008.262	949.919	910.708	913.618
146.5	1582.395	1527.665	1399.677	1231.780	1080.001	1017.970	959.529	920.608	923.617
147.0	1584.573	1529.842	1404.589	1238.753	1089.708	1027.678	969.529	930.410	933.711
147.5	1588.692	1534.358	1408.729	1243.884	1098.545	1037.584	979.139	940.312	943.419
148.0	1588.730	1534.792	1413.740	1249.886	1108.252	1047.193	988.847	950.214	953.612
148.5	1589.065	1537.168	1416.810	1257.830	1117.088	1055.930	998.654	960.116	963.516
149.0	1592.016	1541.585	1421.821	1264.803	1126.895	1064.766	1008.262	969.822	973.610
149.5	1593.520	1540.078	1424.891	1269.934	1135.632	1074.572	1017.970	979.238	983.320
150.0	1594.429	1544.296	1429.902	1277.977	1144.369	1084.280	1027.678	988.946	993.998
150.5	1597.578	1546.672	1435.983	1284.079	1153.106	1093.116	1037.386	999.625	1003.706
151.0	1597.715	1549.048	1437.211	1291.151	1161.942	1101.853	1046.222	1009.233	1014.285
151.5	1600.963	1549.582	1443.193	1297.154	1170.778	1111.561	1055.930	1019.040	1024.092
152.0	1601.199	1551.086	1445.391	1304.226	1179.614	1120.397	1065.637	1028.649	1034.672
152.5	1600.365	1553.462	1449.531	1309.357	1188.351	1129.134	1075.444	1038.357	1044.478
153.0	1600.601	1553.896	1453.670	1316.430	1196.217	1137.970	1084.082	1047.093	1054.186
153.5	1603.749	1556.371	1456.740	1322.531	1201.170	1146.707	1093.889	1057.772	1063.894
154.0	1602.044	1557.875	1458.938	1329.604	1210.878	1156.514	1102.626	1067.381	1074.672
154.5	1604.222	1558.409	1460.938	1334.734	1217.673	1164.280	1112.334	1077.088	1084.478
155.0	1606.300	1559.814	1464.879	1339.865	1223.597	1173.216	1121.170	1085.825	1094.087
155.5	1605.665	1559.476	1467.652	1346.066	1230.491	1181.853	1130.878	1095.533	1103.894
156.0	1602.890	1560.980	1469.453	1351.098	1239.228	1190.789	1139.714	1105.241	1113.503
156.5	1605.067	1562.583	1471.453	1357.298	1246.123	1195.642	1148.451	1114.850	1122.240
157.0	1606.076	1562.047	1474.424	1362.528	1253.988	1204.479	1157.188	1123.586	1132.046
157.5	1601.616	1562.680	1476.424	1366.589	1260.784	1212.245	1166.994	1133.294	1141.754
158.0	1601.910	1560.400	1478.721	1371.720	1267.678	1220.011	1175.731	1143.002	1151.462
158.5	1599.313	1561.033	1480.047	1375.979	1275.444	1225.935	1183.498	1151.739	1160.199
159.0	1596.637	1561.665	1482.345	1381.110	1282.339	1233.701	1189.322	1160.476	1169.907
159.5	1599.211	1562.199	1483.671	1386.340	1288.164	1242.438	1201.071	1170.184	1178.644
160.0	1596.039	1561.662	1485.097	1390.500	1296.029	1249.332	1205.925	1178.921	1188.351
160.5	1593.759	1561.027	1487.493	1393.789	1301.953	1257.198	1214.761	1187.658	1197.188
161.0	1594.570	1561.164	1488.918	1398.048	1306.806	1263.993	1221.556	1194.453	1206.796
161.5	1592.686	1557.616	1491.216	1402.208	1314.573	1271.759	1227.480	1203.190	1214.562
162.0	1591.398	1556.109	1488.857	1406.467	1319.427	1278.654	1236.217	1211.927	1218.247
162.5	1587.751	1553.730	1492.224	1407.814	1327.292	1286.519	1243.012	1218.723	1226.786
163.0	1586.719	1555.333	1491.807	1413.044	1332.245	1294.285	1252.819	1225.518	1234.255
163.5	1584.914	1552.182	1492.361	1415.262	1339.040	1300.209	1259.615	1234.255	1242.893
164.0	1585.448	1552.141	1493.787	1418.551	1343.894	1306.034	1266.410	1242.021	1250.560
164.5	1582.297	1549.089	1493.370	1420.769	1349.818	1312.829	1275.246	1250.857	1261.040
165.0	1579.244	1548.949	1493.924	1424.057	1355.643	1320.596	1283.012	1257.653	1268.806
165.5	1574.251	1543.955	1493.606	1427.247	1361.566	1325.549	1288.837	1264.448	1275.602
166.0	1574.210	1542.072	1493.090	1430.535	1366.420	1331.373	1295.732	1273.185	1285.111
166.5	1572.029	1540.090	1493.743	1433.823	1370.303	1338.268	1303.399	1280.951	1293.848

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	1569.650	1538.107	1492.455	1433.328	1375.256	1343.122	1311.264	1287.846	1301.614
167.5	1565.429	1534.382	1492.137	1435.745	1379.239	1348.946	1316.118	1296.682	1308.410
168.0	1558.692	1531.528	1491.819	1438.161	1384.092	1354.870	1323.983	1304.448	1316.275
168.5	1557.680	1529.248	1491.502	1440.677	1388.946	1360.695	1331.848	1312.313	1323.942
169.0	1551.815	1525.898	1489.242	1439.211	1393.899	1366.519	1336.603	1318.138	1330.639
169.5	1548.862	1522.272	1488.925	1442.499	1396.713	1370.402	1344.369	1326.875	1336.364
170.0	1545.909	1518.546	1487.636	1443.074	1399.625	1376.326	1350.293	1332.700	1344.130
170.5	1543.055	1516.861	1484.505	1444.619	1402.636	1381.180	1355.246	1339.594	1351.025
171.0	1537.090	1513.334	1485.257	1445.292	1404.578	1386.034	1360.199	1346.390	1356.949
171.5	1532.394	1509.806	1481.056	1445.966	1409.531	1389.045	1366.123	1353.383	1364.715
172.0	1529.837	1505.407	1480.937	1447.511	1413.513	1393.899	1371.947	1357.266	1370.341
172.5	1525.240	1501.107	1477.806	1447.213	1416.326	1398.753	1377.772	1365.033	1378.008
173.0	1518.800	1497.580	1474.873	1447.015	1418.367	1403.607	1383.597	1370.857	1381.792
173.5	1515.371	1493.181	1473.981	1448.758	1420.209	1405.549	1388.451	1375.711	1388.687
174.0	1511.745	1489.752	1470.078	1448.560	1421.180	1410.402	1392.334	1381.635	1395.383
174.5	1506.078	1483.511	1467.343	1448.362	1424.192	1415.256	1397.089	1387.460	1398.295
175.0	1500.410	1479.211	1464.609	1446.321	1427.104	1418.169	1400.972	1392.214	1404.021
175.5	1494.842	1475.109	1461.973	1448.263	1428.946	1420.011	1405.925	1397.167	1407.904
176.0	1493.356	1471.107	1459.437	1448.164	1430.987	1423.993	1410.679	1402.120	1415.770
176.5	1485.272	1465.361	1457.000	1447.292	1431.859	1425.935	1416.603	1407.073	1418.781
177.0	1481.071	1461.755	1452.819	1447.292	1432.057	1428.847	1417.574	1411.828	1423.635
177.5	1474.829	1456.306	1451.650	1445.350	1433.899	1429.818	1422.428	1415.711	1426.448
178.0	1468.984	1452.997	1449.610	1445.350	1434.870	1432.730	1425.241	1421.635	1434.313
178.5	1462.763	1446.974	1446.697	1444.380	1434.870	1435.643	1428.153	1425.419	1439.068
179.0	1458.583	1444.934	1442.814	1444.380	1435.841	1436.613	1433.106	1429.302	1441.010
179.5	1454.601	1441.150	1440.873	1442.438	1435.841	1438.555	1435.048	1432.313	1448.875
180.0	1439.505	1439.505	1439.505	1439.505	1439.505	1439.505	1439.505	1439.505	1439.505

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-827U-L50-827D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	534.45	N.A.	5.50
0-30	1135.31	N.A.	11.70
0-40	1862.32	N.A.	19.20
0-60	3373.09	N.A.	34.70
0-80	4517.56	N.A.	46.50
0-90	4877.07	N.A.	50.20
10-90	4739.01	N.A.	48.80
20-40	1327.87	N.A.	13.70
20-50	2098.73	N.A.	21.60
40-70	2154.01	N.A.	22.20
60-80	1144.48	N.A.	11.80
70-80	501.23	N.A.	5.20
80-90	359.50	N.A.	3.70
90-110	857.51	N.A.	8.80
90-120	1496.22	N.A.	15.40
90-130	2230.9	N.A.	23.00
90-150	3716.33	N.A.	38.20
90-180	4839.02	N.A.	49.80
110-180	3981.52	N.A.	41.00
0-180	9716.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.06
10-20	396.39
20-30	600.86
30-40	727.01
40-50	770.86
50-60	739.90
60-70	643.24
70-80	501.23
80-90	359.51
90-100	358.98
100-110	498.52
110-120	638.71
120-130	734.68
130-140	764.97
140-150	720.46
150-160	594.45
160-170	391.73
170-180	136.52

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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-L50-827U-L50-827D-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	21.7	22.6	22.6	23.6	24.8	15.7	16.6	16.6	17.6	18.8
	3H	24.8	25.6	25.7	26.6	27.9	17.0	17.9	18.0	18.8	20.1
	4H	26.4	27.1	27.3	28.1	29.4	17.5	18.3	18.4	19.2	20.5
	6H	28.1	28.8	29.0	29.8	31.1	17.7	18.4	18.7	19.4	20.7
	8H	29.0	29.7	29.9	30.7	32.0	17.8	18.5	18.7	19.5	20.8
	12H	30.0	30.6	31.0	31.6	33.0	17.8	18.4	18.8	19.4	20.8

UGR Viewed Endwise

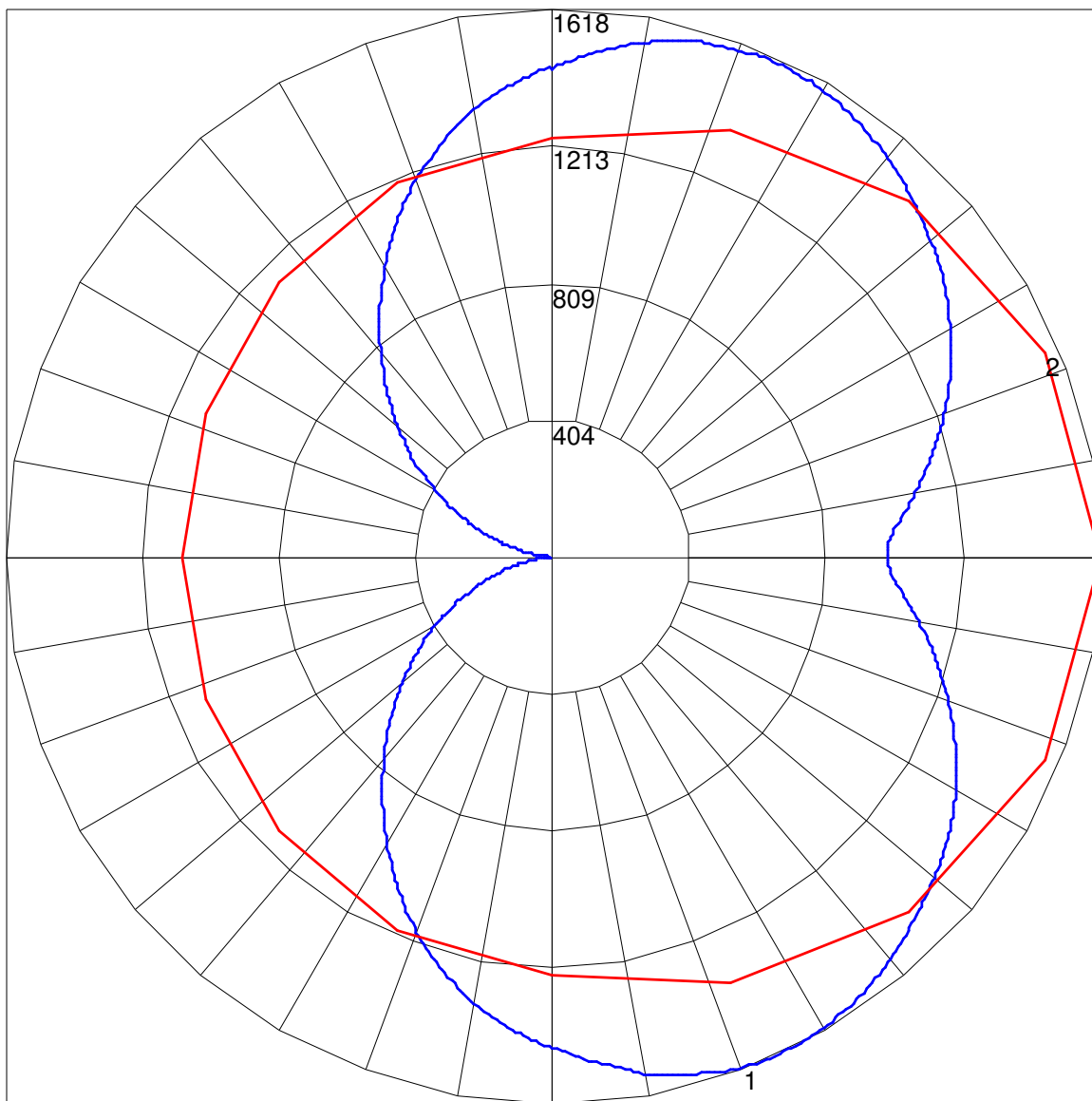
4H	2H	22.0	22.7	22.9	23.7	25.0	16.9	17.7	17.9	18.7	20.0
	3H	25.3	25.9	26.3	26.9	28.3	18.6	19.2	19.6	20.2	21.6
	4H	27.0	27.6	28.0	28.7	30.0	19.1	19.8	20.1	20.8	22.1
	6H	28.9	29.5	30.0	30.5	31.8	19.5	20.1	20.5	21.1	22.4
	8H	30.0	30.4	31.0	31.5	32.8	19.6	20.1	20.6	21.1	22.5
	12H	31.1	31.5	32.1	32.6	33.9	19.7	20.1	20.7	21.2	22.5

8H	4H	27.2	27.7	28.2	28.7	30.0	20.3	20.8	21.3	21.8	23.1
	6H	29.2	29.7	30.3	30.7	32.1	20.9	21.3	21.9	22.4	23.7
	8H	30.4	30.8	31.4	31.8	33.2	21.1	21.5	22.1	22.5	23.9
	12H	31.7	32.0	32.7	33.1	34.5	21.2	21.6	22.3	22.6	24.0

12H	4H	27.1	27.6	28.2	28.6	30.0	20.6	21.1	21.6	22.1	23.4
	6H	29.3	29.6	30.3	30.7	32.1	21.4	21.8	22.5	22.8	24.2
	8H	30.5	30.8	31.5	31.8	33.2	21.7	22.1	22.8	23.1	24.5

Maximum UGR = 34.5

POLAR GRAPH



Maximum Candela = 1617.728 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.)