

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-4-00-L50-835U-L50-835D-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-L50-835U-L50-835D-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	10017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	20681	19584	18775
55	20559	18740	17221
65	20594	18090	15386
75	20952	17681	12695
85	22024	18085	8865

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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	1499.060	1499.060	1499.060	1499.060	1499.060	1499.060	1499.060	1499.060	1499.060
0.5	1501.167	1503.669	1500.882	1506.592	1496.374	1504.148	1494.051	1493.972	1494.114
1.0	1505.254	1507.235	1506.392	1507.814	1495.452	1501.904	1489.763	1489.684	1489.927
1.5	1510.663	1512.022	1508.014	1511.080	1495.452	1497.717	1487.520	1484.475	1482.774
2.0	1515.251	1517.932	1511.680	1511.380	1494.330	1494.551	1483.432	1480.288	1478.586
2.5	1521.882	1521.998	1516.568	1512.702	1493.308	1492.507	1479.345	1477.222	1474.599
3.0	1526.270	1528.109	1520.434	1513.002	1492.286	1490.464	1476.279	1471.091	1469.390
3.5	1532.080	1533.497	1523.278	1516.468	1492.286	1486.276	1471.170	1466.904	1466.324
4.0	1539.733	1538.885	1528.167	1516.768	1490.143	1482.189	1469.127	1461.794	1459.171
4.5	1543.199	1543.352	1532.033	1516.147	1489.121	1481.167	1464.017	1456.685	1452.940
5.0	1545.121	1548.940	1535.377	1519.512	1487.077	1476.058	1457.886	1451.476	1446.909
5.5	1552.253	1553.507	1536.478	1519.913	1484.012	1470.949	1454.821	1446.367	1443.844
6.0	1557.041	1557.152	1539.423	1519.291	1481.868	1469.827	1450.734	1442.180	1437.613
6.5	1560.907	1564.063	1542.467	1518.770	1479.924	1465.840	1445.424	1434.927	1431.582
7.0	1564.773	1568.429	1544.490	1518.970	1478.802	1462.574	1440.315	1428.696	1424.329
7.5	1568.718	1572.074	1546.612	1518.549	1473.593	1457.465	1434.184	1423.586	1417.176
8.0	1576.309	1574.697	1549.236	1515.883	1470.528	1452.356	1429.075	1417.355	1410.023
8.5	1583.035	1578.542	1551.859	1517.406	1469.506	1449.290	1423.866	1411.224	1402.971
9.0	1592.226	1582.588	1554.181	1515.762	1464.397	1444.081	1417.634	1402.950	1395.818
9.5	1596.772	1586.111	1555.583	1516.263	1461.231	1437.950	1411.504	1396.718	1393.774
10.0	1601.839	1591.579	1556.884	1514.820	1458.166	1433.763	1406.394	1390.588	1382.534
10.5	1606.806	1594.802	1559.207	1513.276	1453.056	1428.754	1400.163	1383.335	1377.525
11.0	1609.830	1597.104	1560.608	1510.811	1450.913	1423.544	1392.910	1378.226	1370.372
11.5	1612.553	1600.728	1560.987	1508.346	1444.782	1417.413	1386.880	1369.951	1361.176
12.0	1614.254	1603.330	1562.388	1507.925	1440.694	1414.248	1380.648	1362.798	1353.101
12.5	1620.143	1607.976	1562.867	1505.460	1437.529	1405.973	1373.496	1355.645	1345.948
13.0	1623.467	1610.478	1563.547	1502.995	1433.441	1400.864	1366.243	1347.370	1335.930
13.5	1626.069	1613.802	1564.226	1501.552	1426.289	1394.733	1360.012	1339.096	1329.999
14.0	1631.015	1615.903	1565.006	1499.187	1423.123	1386.458	1350.815	1330.921	1321.103
14.5	1634.438	1618.105	1563.542	1495.600	1418.014	1381.349	1343.562	1322.746	1312.006
15.0	1634.496	1619.185	1564.021	1493.235	1410.761	1375.118	1336.409	1314.572	1302.910
15.5	1636.619	1620.365	1563.879	1488.626	1404.630	1368.887	1328.135	1305.375	1297.801
16.0	1637.520	1622.567	1562.715	1484.839	1399.421	1361.734	1321.904	1297.200	1285.439
16.5	1641.923	1624.768	1564.617	1483.496	1394.312	1354.581	1313.729	1290.048	1279.308
17.0	1646.748	1623.905	1564.475	1478.887	1389.202	1346.306	1306.476	1280.751	1273.277
17.5	1647.507	1627.228	1563.210	1473.157	1381.949	1341.097	1297.179	1274.520	1262.959
18.0	1650.409	1626.364	1561.946	1470.792	1374.797	1330.779	1287.983	1265.323	1255.806
18.5	1654.333	1627.645	1560.382	1466.383	1367.544	1324.648	1283.795	1260.214	1246.509
19.0	1653.348	1628.925	1560.040	1463.196	1361.413	1316.373	1275.621	1251.018	1237.313
19.5	1657.973	1629.083	1557.454	1459.088	1354.160	1310.142	1266.324	1241.821	1226.994
20.0	1660.254	1628.419	1557.111	1453.658	1348.029	1301.967	1262.237	1232.625	1217.798
20.5	1660.912	1629.699	1553.603	1449.249	1341.798	1293.693	1252.940	1223.328	1207.479
21.0	1661.471	1628.935	1552.239	1443.197	1332.601	1285.518	1243.744	1214.132	1198.283
21.5	1663.151	1629.394	1549.753	1440.111	1326.370	1281.331	1235.569	1203.914	1188.065
22.0	1665.332	1629.030	1547.367	1436.102	1318.196	1271.112	1226.273	1194.717	1177.746
22.5	1666.591	1628.667	1544.881	1430.872	1309.921	1263.759	1216.976	1185.521	1168.550
23.0	1665.706	1629.226	1542.495	1425.542	1302.668	1253.541	1207.780	1175.302	1158.231
23.5	1665.943	1628.141	1541.031	1418.168	1293.471	1249.454	1198.483	1165.084	1148.013
24.0	1667.102	1627.977	1537.623	1414.259	1287.340	1241.179	1189.187	1155.787	1136.773
24.5	1667.761	1627.614	1535.237	1408.307	1278.044	1231.982	1179.990	1145.669	1127.576
25.0	1666.376	1627.351	1530.808	1403.999	1274.978	1222.586	1170.693	1135.351	1117.258
25.5	1663.968	1625.044	1528.422	1398.769	1267.725	1213.389	1161.497	1125.132	1106.018
26.0	1664.627	1624.480	1525.014	1390.473	1260.573	1204.093	1151.178	1115.936	1096.721
26.5	1663.342	1621.873	1521.706	1384.121	1251.276	1194.896	1141.882	1105.717	1085.381

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27.0	1661.035	1620.288	1519.520	1378.890	1241.979	1185.499	1131.664	1095.499	1075.163
27.5	1660.972	1619.724	1513.347	1373.660	1233.705	1176.303	1122.367	1085.181	1064.844
28.0	1661.630	1617.117	1509.318	1364.243	1224.508	1165.985	1113.071	1074.963	1053.604
28.5	1658.923	1614.510	1506.210	1359.934	1216.334	1156.788	1102.852	1064.744	1043.286
29.0	1656.716	1613.947	1503.103	1351.638	1206.115	1147.492	1092.634	1053.504	1033.067
29.5	1656.253	1609.296	1499.174	1343.142	1196.819	1137.273	1082.315	1043.286	1022.338
30.0	1655.468	1606.488	1495.044	1337.812	1187.522	1126.855	1073.119	1032.967	1011.715
30.5	1652.861	1604.181	1490.915	1330.538	1178.326	1117.658	1062.801	1022.647	1001.495
31.0	1652.498	1602.596	1486.886	1323.064	1169.129	1107.340	1052.582	1012.326	990.870
31.5	1650.291	1600.811	1480.712	1319.777	1159.833	1097.121	1042.364	1002.210	980.347
32.0	1646.862	1598.204	1477.705	1311.281	1149.614	1087.825	1032.045	991.683	970.229
32.5	1647.521	1594.574	1472.454	1306.973	1140.318	1077.506	1021.725	981.465	959.504
33.0	1641.948	1593.089	1468.124	1299.699	1131.121	1067.288	1011.404	970.738	948.775
33.5	1642.907	1588.338	1462.773	1291.303	1120.803	1056.970	1001.186	960.417	938.454
34.0	1641.521	1584.809	1456.399	1283.929	1110.584	1046.752	990.868	950.301	927.727
34.5	1638.293	1581.180	1450.026	1275.433	1100.266	1037.455	980.547	939.776	917.304
35.0	1634.464	1577.551	1445.797	1267.037	1090.048	1026.930	970.431	929.456	907.188
35.5	1632.057	1575.044	1441.367	1259.663	1080.851	1016.612	960.315	919.033	896.561
36.0	1628.206	1569.372	1435.194	1251.267	1070.633	1006.291	949.995	908.815	885.936
36.5	1626.000	1565.743	1430.864	1242.871	1059.393	995.973	939.267	898.801	875.411
37.0	1622.471	1563.236	1423.369	1234.376	1049.074	985.959	929.253	888.278	864.784
37.5	1619.342	1557.663	1416.896	1225.980	1038.856	975.334	919.035	877.651	854.772
38.0	1618.057	1553.012	1412.767	1217.584	1028.638	965.013	908.612	867.637	843.943
38.5	1611.663	1549.483	1404.350	1209.188	1018.217	954.489	898.394	857.216	833.214
39.0	1608.534	1546.976	1398.898	1199.770	1007.590	944.374	887.971	846.998	822.791
39.5	1604.083	1541.303	1399.678	1191.274	997.270	934.054	877.957	836.575	812.471
40.0	1602.899	1537.775	1393.405	1182.879	986.643	923.427	867.843	826.359	802.457
40.5	1596.704	1534.045	1387.132	1173.461	976.018	913.109	857.318	816.139	792.136
41.0	1592.053	1528.673	1380.658	1164.965	965.697	902.788	847.100	805.820	781.615
41.5	1586.881	1524.022	1374.385	1155.747	954.866	892.061	836.678	795.806	771.497
42.0	1585.596	1520.293	1366.890	1147.452	944.341	882.249	826.461	785.386	761.383
42.5	1581.346	1515.743	1360.517	1139.156	933.714	871.828	816.141	774.963	751.367
43.0	1576.073	1508.026	1353.944	1131.060	923.089	861.304	805.923	765.153	740.744
43.5	1573.566	1504.397	1347.670	1121.843	911.951	850.779	795.398	754.631	730.830
44.0	1568.194	1499.746	1340.375	1112.625	901.528	840.460	784.873	744.310	721.123
44.5	1563.943	1495.196	1332.780	1103.307	890.697	830.242	774.554	734.196	711.009
45.0	1560.815	1491.567	1326.507	1094.912	880.070	819.413	764.336	723.773	701.097
45.5	1554.120	1484.972	1319.112	1085.698	869.445	808.988	753.709	713.760	690.677
46.0	1553.657	1480.421	1311.717	1076.587	858.613	798.463	743.491	703.643	680.663
46.5	1547.463	1477.814	1305.344	1067.372	847.882	788.043	732.966	693.325	671.057
47.0	1545.156	1476.229	1297.949	1057.954	836.746	777.620	722.645	683.411	661.352
47.5	1541.727	1471.978	1290.454	1049.043	825.710	766.993	712.327	673.195	651.032
48.0	1537.576	1466.005	1283.359	1040.132	814.777	756.061	702.209	663.487	641.018
48.5	1530.882	1460.633	1275.663	1031.119	804.047	745.434	691.686	653.373	631.106
49.0	1526.732	1454.960	1268.369	1021.799	793.320	734.909	681.365	643.564	620.990
49.5	1522.681	1449.288	1260.873	1012.482	782.489	724.589	671.249	633.654	611.385
50.0	1523.240	1444.837	1253.378	1003.369	771.555	714.066	661.135	623.742	601.268
50.5	1515.924	1439.165	1246.083	993.953	760.724	703.235	650.712	614.339	591.461
51.0	1514.539	1433.692	1238.788	984.842	749.995	692.812	640.596	604.328	581.551
51.5	1509.466	1428.119	1230.271	975.422	739.265	682.083	630.276	594.416	571.946
52.0	1504.394	1421.425	1222.676	965.598	728.332	671.762	620.364	584.711	562.545
52.5	1500.044	1415.852	1215.381	956.384	717.602	661.342	610.250	575.003	552.736
53.0	1494.671	1410.080	1206.964	946.762	706.771	650.715	600.032	565.296	542.824
53.5	1489.299	1404.607	1199.367	937.245	696.246	639.985	589.813	555.690	532.914
54.0	1484.327	1398.834	1191.463	927.520	685.315	629.665	579.697	545.779	524.124
54.5	1478.954	1392.540	1183.251	917.694	674.790	619.447	569.685	536.278	514.421

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55.0	1473.782	1386.767	1175.449	908.176	664.061	608.822	559.569	526.468	504.609
55.5	1468.510	1380.073	1167.745	898.247	653.433	598.094	549.557	516.761	495.209
56.0	1463.337	1374.500	1159.739	888.628	642.602	587.772	539.644	507.462	485.299
56.5	1458.365	1367.806	1151.424	878.597	631.871	577.249	529.325	497.448	476.204
57.0	1453.093	1362.333	1143.216	868.668	621.041	566.926	519.718	488.254	467.210
57.5	1446.799	1355.739	1135.306	858.742	610.412	556.201	509.910	478.342	457.301
58.0	1441.226	1348.944	1127.198	848.506	599.379	545.777	499.794	469.043	447.798
58.5	1436.254	1342.350	1118.889	838.580	588.547	535.456	490.087	459.540	438.192
59.0	1430.982	1335.956	1110.270	828.345	577.511	525.035	480.379	449.935	429.098
59.5	1424.788	1329.061	1102.258	818.112	566.373	514.511	470.774	440.636	419.799
60.0	1418.093	1322.367	1093.641	808.185	555.440	503.886	461.169	431.236	410.399
60.5	1411.999	1315.772	1085.635	798.259	544.608	493.463	451.361	421.937	400.998
61.0	1406.727	1309.073	1077.322	788.535	533.879	482.938	441.552	412.536	391.699
61.5	1400.332	1302.379	1069.009	778.506	522.946	472.720	431.742	403.135	382.298
62.0	1392.916	1295.276	1060.288	768.271	512.214	462.197	422.341	393.736	373.306
62.5	1386.622	1288.271	1052.073	758.242	501.178	451.877	412.532	384.233	363.803
63.0	1380.328	1281.572	1043.867	748.213	490.551	441.249	402.724	374.935	354.709
63.5	1374.034	1274.162	1035.555	738.183	479.720	430.725	393.117	365.736	345.308
64.0	1367.840	1266.957	1026.833	728.154	468.889	420.711	383.409	356.233	336.522
64.5	1360.524	1259.853	1018.625	718.125	458.161	410.288	373.498	346.934	328.039
65.0	1353.516	1252.750	1009.599	707.688	447.330	400.070	363.586	337.738	318.536
65.5	1346.411	1245.238	1001.285	697.353	436.396	389.647	354.083	328.439	309.544
66.0	1339.504	1237.520	992.870	687.326	425.767	379.226	344.171	319.345	300.756
66.5	1333.001	1230.112	983.948	677.195	415.142	368.804	334.670	309.944	291.968
67.0	1325.685	1222.700	975.634	667.064	404.513	358.585	325.370	300.952	283.487
67.5	1318.576	1215.288	966.708	656.627	393.884	348.571	315.866	291.858	274.597
68.0	1311.566	1207.576	957.991	646.294	382.748	338.660	306.263	282.865	265.503
68.5	1304.148	1199.858	949.374	636.061	372.019	328.237	296.658	273.873	256.511
69.0	1297.654	1192.246	940.346	626.034	361.494	318.325	287.155	264.881	248.234
69.5	1290.338	1184.836	931.931	616.108	350.969	308.107	278.161	256.093	239.650
70.0	1283.428	1177.115	922.907	606.181	340.342	298.195	268.864	247.306	231.065
70.5	1276.314	1169.299	914.186	596.153	329.819	288.081	259.668	238.314	222.177
71.0	1269.407	1161.581	905.365	585.824	319.190	278.271	250.471	229.832	213.594
71.5	1262.394	1153.862	896.139	575.899	309.176	268.462	241.481	221.351	205.112
72.0	1254.782	1145.641	887.520	566.279	298.751	258.652	232.487	212.870	197.344
72.5	1247.563	1138.125	878.698	556.457	287.615	248.945	223.597	204.695	188.659
73.0	1240.052	1130.207	870.081	546.939	277.599	239.442	214.911	196.112	180.484
73.5	1232.733	1122.083	861.366	537.115	267.281	230.245	206.124	187.733	172.105
74.0	1225.517	1114.265	852.342	527.295	257.163	220.947	197.438	179.761	164.137
74.5	1217.699	1106.046	843.621	517.577	247.353	211.750	188.957	171.688	156.678
75.0	1210.281	1098.228	834.502	508.159	237.441	202.554	180.578	163.720	148.605
75.5	1202.662	1090.105	825.787	498.341	227.732	193.561	172.197	155.545	140.939
76.0	1194.944	1082.288	817.476	488.726	218.024	184.774	163.718	147.881	133.480
76.5	1187.215	1074.065	808.559	479.612	208.317	176.088	155.339	139.911	126.125
77.0	1179.395	1066.353	799.844	469.897	198.914	167.403	147.571	132.452	119.276
77.5	1171.572	1058.234	791.131	460.887	189.309	158.819	139.500	124.890	112.124
78.0	1163.956	1050.420	782.720	451.680	180.317	150.236	131.632	117.635	105.175
78.5	1155.724	1042.306	774.410	442.978	171.222	141.857	123.866	110.480	98.227
79.0	1148.008	1033.985	765.901	433.773	162.433	133.784	116.203	103.327	91.176
79.5	1140.185	1026.172	757.593	424.871	153.543	125.814	108.741	96.175	84.739
80.0	1132.166	1018.258	749.189	416.075	144.753	118.046	101.486	89.430	78.199
80.5	1124.143	1010.248	740.780	407.783	136.272	110.280	94.333	82.686	71.863
81.0	1116.629	1002.538	732.985	399.493	128.095	102.719	87.385	76.147	65.324
81.5	1108.911	994.217	724.887	391.206	120.124	95.461	80.536	69.709	58.988
82.0	1101.092	986.509	717.092	382.919	112.256	88.309	73.692	63.374	53.064
82.5	1094.083	979.516	709.403	374.936	104.388	81.462	67.355	57.547	47.440

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83.0	1086.473	972.010	701.509	367.462	96.827	74.514	61.019	51.621	41.617
83.5	1079.270	964.403	693.820	360.090	89.572	67.768	54.990	45.796	35.997
84.0	1072.267	957.206	686.540	352.724	82.521	61.330	49.064	40.176	30.477
84.5	1065.059	949.807	679.160	345.356	75.573	55.097	43.035	34.556	25.370
85.0	1058.260	942.305	671.882	338.397	68.829	49.068	37.313	29.345	20.770
85.5	1051.562	935.413	664.295	331.438	62.187	43.039	31.793	24.338	16.682
86.0	1044.869	928.820	657.017	324.786	55.749	37.215	26.479	19.842	13.719
86.5	1038.673	922.828	650.450	318.134	49.516	31.593	21.370	16.365	11.673
87.0	1032.977	918.644	643.974	311.990	43.589	26.075	16.874	13.606	10.345
87.5	1028.883	915.463	639.111	305.644	37.663	20.759	13.704	11.867	9.525
88.0	1026.900	913.987	635.644	299.398	31.634	15.548	11.456	10.641	9.112
88.5	1025.408	912.908	633.476	293.951	25.605	11.256	10.228	9.721	8.604
89.0	1024.522	912.638	632.922	290.209	19.472	9.212	9.513	9.413	8.499
89.5	1024.344	912.467	632.466	288.970	14.256	8.495	9.206	9.106	8.397
90.0	1024.461	912.397	632.519	289.042	12.194	8.291	9.102	9.104	8.497
90.5	1023.673	912.635	632.579	289.622	14.485	8.289	9.100	9.102	8.393
91.0	1024.101	913.382	633.343	292.342	19.487	8.387	8.998	9.202	8.393
91.5	1024.327	914.741	635.026	297.108	25.492	9.988	9.098	9.100	8.291
92.0	1025.572	916.914	638.851	302.796	31.297	12.888	9.398	8.998	8.491
92.5	1026.918	920.612	644.103	308.484	36.899	17.592	10.196	9.298	8.691
93.0	1029.692	925.236	650.372	315.081	42.501	23.096	12.198	9.698	9.392
93.5	1033.283	931.077	657.051	320.969	48.306	28.601	15.601	10.797	10.993
94.0	1038.608	937.734	663.924	327.661	54.411	34.205	20.204	12.999	14.095
94.5	1045.054	944.496	670.392	334.254	60.616	39.607	25.509	16.504	18.399
95.0	1051.805	951.757	677.975	340.842	67.021	45.512	30.911	20.705	23.201
95.5	1058.556	959.121	685.251	347.735	73.626	51.519	36.515	25.809	28.707
96.0	1065.611	965.976	692.423	354.826	80.431	57.522	42.522	31.315	34.111
96.5	1072.462	973.034	699.800	362.222	87.435	63.827	48.427	36.818	39.916
97.0	1079.413	980.195	707.176	369.715	94.641	70.132	54.532	42.622	45.821
97.5	1086.566	987.551	714.653	377.206	102.149	76.837	60.737	48.729	51.625
98.0	1093.510	994.908	722.134	385.198	109.553	83.642	66.942	54.634	57.528
98.5	1100.862	1002.466	730.012	393.292	117.461	90.648	73.445	60.837	63.935
99.0	1108.111	1010.126	737.891	401.281	125.668	98.154	80.152	67.142	70.340
99.5	1115.362	1017.581	745.868	409.676	133.872	105.560	87.056	73.749	77.048
100.0	1122.609	1025.239	754.048	418.166	142.279	113.366	93.961	80.355	83.451
100.5	1129.858	1032.995	762.122	426.658	150.886	121.172	101.167	86.960	90.256
101.0	1137.509	1040.550	770.402	435.450	159.695	128.979	108.675	93.765	96.962
101.5	1144.556	1048.100	778.575	444.142	168.600	137.387	116.081	100.671	104.067
102.0	1152.203	1055.962	787.150	453.035	177.707	145.190	123.787	107.776	111.375
102.5	1159.550	1063.515	795.423	461.825	186.814	153.999	131.493	115.082	118.581
103.0	1167.104	1071.269	803.796	470.717	196.324	164.407	139.400	122.388	125.987
103.5	1174.649	1078.925	812.269	479.808	205.932	173.014	147.406	129.894	133.293
104.0	1182.205	1086.576	820.845	489.100	215.339	180.318	155.412	137.502	141.099
104.5	1189.545	1094.634	829.313	498.191	224.947	189.527	163.819	145.306	148.905
105.0	1197.297	1102.188	837.687	507.281	234.955	198.334	172.128	153.215	156.811
105.5	1203.939	1109.941	846.358	516.574	244.865	207.642	180.532	161.121	164.718
106.0	1211.584	1117.695	854.729	525.965	254.871	218.050	189.141	169.128	172.826
106.5	1218.731	1125.146	863.100	535.457	265.181	228.858	197.848	177.236	180.831
107.0	1226.178	1132.800	871.571	544.648	275.289	236.765	206.455	185.541	189.540
107.5	1233.625	1140.551	879.942	554.141	285.598	245.272	215.463	193.747	197.646
108.0	1240.770	1148.103	888.617	563.832	295.908	254.879	224.269	202.556	206.153
108.5	1247.813	1155.654	897.188	573.525	306.416	264.689	233.177	210.961	214.562
109.0	1255.360	1162.905	905.661	583.116	316.825	274.395	242.384	219.770	223.169
109.5	1262.302	1170.966	914.130	592.606	327.233	284.205	251.493	228.277	231.675
110.0	1269.547	1178.012	922.403	602.500	337.841	294.113	260.500	237.084	240.585
110.5	1276.592	1185.568	930.372	612.191	348.450	304.021	269.808	245.891	249.292

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111.0	1283.736	1192.619	938.741	621.884	359.158	314.031	279.115	254.800	258.199
111.5	1290.685	1199.970	947.216	631.777	369.867	324.039	288.323	263.807	266.705
112.0	1297.328	1207.326	955.482	641.568	380.575	334.147	297.830	272.815	275.310
112.5	1304.472	1214.579	963.956	651.559	391.586	344.455	307.438	281.722	284.119
113.0	1310.910	1221.832	972.329	661.350	402.195	354.763	316.846	290.629	293.127
113.5	1317.957	1228.985	980.595	671.543	412.903	365.174	326.553	299.836	302.334
114.0	1324.697	1235.832	988.864	681.334	423.912	375.382	336.463	308.943	311.341
114.5	1331.340	1242.883	997.135	691.226	434.521	385.890	348.271	318.353	320.348
115.0	1337.581	1250.038	1005.406	701.219	445.331	396.301	360.881	327.661	329.558
115.5	1343.928	1257.089	1013.575	711.110	456.240	406.909	369.888	336.768	338.465
116.0	1350.768	1263.638	1021.948	721.001	467.149	417.317	376.095	346.075	348.173
116.5	1356.914	1270.693	1029.812	730.894	477.857	427.726	384.702	355.383	357.280
117.0	1363.754	1277.746	1038.285	740.885	488.768	438.534	396.113	364.890	366.790
117.5	1369.798	1284.192	1046.252	750.676	499.877	448.845	408.923	373.998	375.795
118.0	1375.842	1291.141	1054.320	760.670	510.486	459.653	419.129	383.607	385.204
118.5	1381.579	1297.594	1062.791	770.458	521.494	470.264	426.139	392.712	394.512
119.0	1387.726	1303.842	1070.662	780.452	532.405	480.672	433.945	402.522	404.122
119.5	1393.872	1311.091	1078.728	790.243	543.314	490.980	443.553	411.930	413.127
120.0	1399.711	1317.646	1086.697	799.934	554.425	501.489	453.361	421.538	423.137
120.5	1405.653	1323.996	1094.665	809.424	565.233	512.199	463.269	431.047	432.344
121.0	1411.594	1330.244	1102.736	819.316	575.742	522.608	473.077	440.755	441.754
121.5	1417.638	1336.799	1110.504	828.904	586.751	532.916	482.885	452.264	451.161
122.0	1422.579	1343.150	1118.475	838.798	597.659	543.326	493.095	465.377	460.769
122.5	1428.725	1348.295	1126.141	848.388	608.368	553.635	502.903	476.584	470.477
123.0	1434.769	1354.850	1134.010	857.977	619.179	564.245	512.913	483.992	480.084
123.5	1440.813	1360.996	1141.982	867.468	630.087	574.553	522.921	492.899	489.992
124.0	1445.856	1366.447	1149.949	876.959	640.696	585.062	533.031	504.510	503.305
124.5	1451.900	1372.696	1157.613	886.650	651.607	595.673	543.039	514.318	520.621
125.0	1457.148	1379.148	1165.586	896.238	662.215	605.780	553.247	520.923	531.728
125.5	1462.088	1384.498	1173.452	905.831	673.124	616.289	563.257	527.931	536.934
126.0	1468.030	1390.849	1180.822	915.020	683.732	626.697	573.365	537.236	538.735
126.5	1472.971	1396.402	1188.684	924.410	694.341	636.908	583.273	546.846	547.142
127.0	1478.218	1402.753	1197.057	933.801	705.152	647.516	593.281	556.556	556.750
127.5	1483.364	1408.102	1204.225	942.891	715.860	657.824	603.391	566.164	566.460
128.0	1488.305	1413.554	1211.189	952.380	726.368	668.433	613.601	575.871	576.367
128.5	1493.450	1419.905	1219.460	961.771	737.279	679.043	623.307	585.681	586.075
129.0	1498.595	1425.357	1226.628	970.961	748.088	689.351	633.818	595.687	595.983
129.5	1498.532	1430.706	1233.795	980.252	758.796	699.760	644.126	605.397	605.891
130.0	1503.780	1436.056	1242.066	989.543	769.405	710.168	654.334	615.105	615.801
130.5	1506.923	1441.406	1249.132	998.933	780.015	720.779	664.544	624.813	625.809
131.0	1511.864	1445.652	1256.300	1008.022	790.824	731.187	674.450	634.622	635.617
131.5	1513.108	1450.307	1263.468	1017.212	801.733	741.495	684.560	644.630	645.527
132.0	1520.949	1454.656	1270.636	1026.303	812.441	751.803	694.969	654.538	655.735
132.5	1526.197	1458.903	1277.804	1035.393	823.352	762.314	705.077	664.446	665.639
133.0	1528.442	1462.558	1284.972	1044.283	834.161	772.622	715.585	674.156	675.553
133.5	1533.383	1465.906	1292.139	1053.472	844.671	783.133	725.693	685.365	685.461
134.0	1540.530	1472.358	1299.205	1062.764	855.280	793.641	736.104	695.173	695.671
134.5	1542.672	1476.707	1305.372	1071.853	865.988	803.849	746.412	705.183	705.477
135.0	1547.716	1483.160	1312.540	1081.146	876.697	814.558	756.518	715.291	715.990
135.5	1553.964	1486.406	1319.708	1089.233	887.408	825.066	766.930	725.501	725.695
136.0	1556.005	1490.857	1326.569	1098.526	898.016	835.577	777.038	735.207	735.905
136.5	1563.049	1495.307	1332.941	1107.512	908.524	845.683	787.246	745.317	745.609
137.0	1563.190	1500.555	1339.006	1116.703	919.235	856.291	797.555	755.227	756.224
137.5	1569.030	1506.007	1346.276	1124.994	929.645	866.906	807.463	765.131	766.232
138.0	1571.173	1509.355	1350.135	1133.878	940.148	877.108	817.564	775.037	775.622
138.5	1577.319	1515.807	1355.403	1142.068	950.258	887.416	827.877	785.549	786.340

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CANDELA TABULATION - (Cont.)

139.0	1580.769	1518.257	1362.571	1151.156	960.666	897.424	837.985	795.457	796.550
139.5	1583.606	1522.504	1367.635	1159.142	971.179	907.934	848.095	805.567	806.660
140.0	1586.750	1527.057	1373.905	1167.229	981.487	917.942	857.903	815.475	816.670
140.5	1591.997	1531.610	1377.069	1176.216	991.897	928.353	868.313	825.886	827.481
141.0	1595.039	1535.959	1382.236	1184.201	1002.508	938.463	878.622	836.494	838.089
141.5	1599.183	1537.509	1389.403	1193.187	1013.016	948.671	888.730	846.903	848.397
142.0	1601.531	1543.063	1394.468	1201.275	1023.024	958.879	898.836	857.311	858.806
142.5	1604.674	1547.412	1400.737	1209.260	1033.032	968.887	908.844	867.219	869.214
143.0	1609.615	1550.658	1405.801	1217.450	1043.040	979.096	918.852	877.227	879.522
143.5	1613.862	1553.108	1410.967	1225.639	1054.049	989.504	929.260	887.835	889.933
144.0	1612.001	1556.660	1417.134	1233.829	1064.159	999.712	939.266	898.241	900.339
144.5	1617.453	1561.213	1422.301	1241.917	1074.269	1009.320	949.476	908.550	910.747
145.0	1622.496	1564.663	1426.466	1249.208	1084.277	1019.328	959.484	918.558	921.558
145.5	1622.740	1568.114	1433.634	1257.398	1094.285	1029.438	969.490	928.866	931.566
146.0	1625.781	1570.359	1437.697	1264.689	1103.395	1039.446	979.298	938.874	941.874
146.5	1631.335	1574.912	1442.966	1269.876	1113.403	1049.454	989.206	949.080	952.182
147.0	1633.580	1577.157	1448.030	1277.065	1123.411	1059.462	999.514	959.186	962.589
147.5	1637.827	1581.812	1452.298	1282.354	1132.520	1069.674	1009.422	969.394	972.597
148.0	1637.866	1582.260	1457.464	1288.543	1142.528	1079.580	1019.430	979.602	983.105
148.5	1638.212	1584.710	1460.629	1296.732	1151.638	1088.587	1029.540	989.810	993.315
149.0	1641.253	1589.263	1465.795	1303.921	1161.748	1097.697	1039.446	999.816	1003.721
149.5	1642.804	1587.709	1468.960	1309.211	1170.755	1107.807	1049.454	1009.524	1013.732
150.0	1643.742	1592.058	1474.126	1317.503	1179.762	1117.815	1059.462	1019.532	1024.740
150.5	1646.987	1594.507	1480.395	1323.793	1188.769	1126.924	1069.470	1030.541	1034.748
151.0	1647.129	1596.957	1481.660	1331.084	1197.879	1135.931	1078.579	1040.447	1045.655
151.5	1650.477	1597.507	1487.828	1337.272	1206.988	1145.939	1088.587	1050.557	1055.765
152.0	1650.720	1599.057	1490.094	1344.563	1216.097	1155.049	1098.595	1060.463	1066.672
152.5	1649.861	1601.507	1494.361	1349.853	1225.105	1164.056	1108.705	1070.471	1076.782
153.0	1650.104	1601.955	1498.629	1357.144	1233.213	1173.165	1117.610	1079.478	1086.790
153.5	1653.350	1604.506	1501.794	1363.434	1238.319	1182.172	1127.720	1090.487	1096.798
154.0	1651.592	1606.057	1504.060	1370.725	1248.327	1192.283	1136.728	1100.392	1107.909
154.5	1653.837	1606.607	1506.122	1376.015	1255.333	1200.289	1146.736	1110.400	1118.019
155.0	1655.980	1608.056	1510.185	1381.304	1261.440	1209.501	1155.845	1119.408	1127.925
155.5	1655.325	1607.707	1513.043	1387.697	1268.548	1218.406	1165.853	1129.416	1138.035
156.0	1652.464	1609.258	1514.900	1392.884	1277.555	1227.617	1174.963	1139.424	1147.941
156.5	1654.709	1610.911	1516.962	1399.277	1284.663	1232.621	1183.970	1149.329	1156.948
157.0	1655.748	1610.358	1520.025	1404.668	1292.771	1241.730	1192.977	1158.337	1167.058
157.5	1651.150	1611.010	1522.086	1408.855	1299.777	1249.737	1203.087	1168.345	1177.066
158.0	1651.454	1608.660	1524.455	1414.144	1306.885	1257.743	1212.094	1178.353	1187.074
158.5	1648.776	1609.312	1525.822	1418.535	1314.891	1263.850	1220.101	1187.360	1196.081
159.0	1646.017	1609.964	1528.190	1423.825	1321.999	1271.857	1226.105	1196.367	1206.089
159.5	1648.671	1610.514	1529.558	1429.216	1328.004	1280.864	1238.217	1206.375	1215.097
160.0	1645.401	1609.961	1531.027	1433.505	1336.112	1287.972	1243.221	1215.382	1225.105
160.5	1643.051	1609.306	1533.498	1436.895	1342.219	1296.080	1252.331	1224.389	1234.214
161.0	1643.886	1609.447	1534.967	1441.286	1347.223	1303.086	1259.336	1231.395	1244.120
161.5	1641.945	1605.790	1537.336	1445.575	1355.230	1311.092	1265.443	1240.402	1252.126
162.0	1640.616	1604.236	1534.904	1449.966	1360.234	1318.200	1274.450	1249.409	1255.925
162.5	1636.857	1601.784	1538.376	1451.354	1368.342	1326.309	1281.456	1256.415	1264.728
163.0	1635.793	1603.437	1537.946	1456.746	1373.448	1334.315	1291.566	1263.420	1272.428
163.5	1633.932	1600.188	1538.517	1459.033	1380.454	1340.422	1298.572	1272.428	1281.333
164.0	1634.482	1600.146	1539.987	1462.423	1385.458	1346.427	1305.577	1280.434	1289.237
164.5	1631.234	1596.999	1539.557	1464.710	1391.565	1353.432	1314.687	1289.543	1300.041
165.0	1628.087	1596.855	1540.128	1468.101	1397.570	1361.439	1322.693	1296.549	1308.048
165.5	1622.939	1591.707	1539.800	1471.388	1403.677	1366.545	1328.698	1303.555	1315.053
166.0	1622.897	1589.765	1539.268	1474.778	1408.681	1372.550	1335.806	1312.562	1324.857
166.5	1620.649	1587.721	1539.942	1478.169	1412.684	1379.658	1343.710	1320.568	1333.864

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CANDELA TABULATION - (Cont.)

167.0	1618.196	1585.678	1538.613	1477.658	1417.790	1384.661	1351.818	1327.676	1341.871
167.5	1613.844	1581.837	1538.286	1480.149	1421.895	1390.666	1356.822	1336.785	1348.876
168.0	1606.899	1578.895	1537.958	1482.641	1426.899	1396.773	1364.931	1344.792	1356.985
168.5	1605.856	1576.544	1537.630	1485.234	1431.903	1402.778	1373.040	1352.900	1364.889
169.0	1599.809	1573.091	1535.301	1483.723	1437.010	1408.783	1377.941	1358.905	1371.792
169.5	1596.765	1569.352	1534.974	1487.113	1439.910	1412.786	1385.948	1367.912	1377.695
170.0	1593.720	1565.512	1533.645	1487.705	1442.912	1418.893	1392.055	1373.917	1385.701
170.5	1590.778	1563.774	1530.418	1489.298	1446.017	1423.897	1397.161	1381.025	1392.809
171.0	1584.629	1560.138	1531.193	1489.992	1448.018	1428.901	1402.267	1388.031	1398.916
171.5	1579.787	1556.501	1526.862	1490.686	1453.125	1432.006	1408.374	1395.241	1406.922
172.0	1577.151	1551.966	1526.739	1492.279	1457.230	1437.010	1414.379	1399.244	1412.723
172.5	1572.412	1547.533	1523.511	1491.972	1460.130	1442.014	1420.384	1407.250	1420.627
173.0	1565.773	1543.897	1520.488	1491.768	1462.234	1447.018	1426.389	1413.255	1424.528
173.5	1562.239	1539.362	1519.568	1493.565	1464.133	1449.019	1431.392	1418.259	1431.636
174.0	1558.500	1535.827	1515.544	1493.361	1465.134	1454.023	1435.396	1424.366	1438.539
174.5	1552.658	1529.393	1512.725	1493.157	1468.239	1459.027	1440.297	1430.371	1441.542
175.0	1546.815	1524.960	1509.906	1491.053	1471.241	1462.030	1444.301	1435.273	1447.444
175.5	1541.075	1520.731	1507.189	1493.054	1473.141	1463.929	1449.407	1440.379	1451.448
176.0	1539.542	1516.605	1504.574	1492.952	1475.244	1468.034	1454.309	1445.485	1459.556
176.5	1531.208	1510.681	1502.062	1492.054	1476.143	1470.036	1460.416	1450.591	1462.661
177.0	1526.877	1506.963	1497.752	1492.054	1476.347	1473.038	1461.417	1455.493	1467.665
177.5	1520.443	1501.346	1496.547	1490.052	1478.247	1474.039	1466.420	1459.496	1470.565
178.0	1514.417	1497.935	1494.443	1490.052	1479.247	1477.042	1469.321	1465.603	1478.674
178.5	1508.003	1491.726	1491.440	1489.051	1479.247	1480.044	1472.323	1469.504	1483.575
179.0	1503.694	1489.622	1487.437	1489.051	1480.248	1481.045	1477.429	1473.507	1485.577
179.5	1499.588	1485.721	1485.436	1487.050	1480.248	1483.046	1479.431	1476.612	1493.686
180.0	1484.026	1484.026	1484.026	1484.026	1484.026	1484.026	1484.026	1484.026	1484.026

IES INDOOR REPORT**PHOTOMETRIC FILENAME : CMH-4-00-L50-835U-L50-835D-DMA-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	550.98	N.A.	5.50
0-30	1170.42	N.A.	11.70
0-40	1919.92	N.A.	19.20
0-60	3477.41	N.A.	34.70
0-80	4657.28	N.A.	46.50
0-90	5027.91	N.A.	50.20
10-90	4885.57	N.A.	48.80
20-40	1368.94	N.A.	13.70
20-50	2163.64	N.A.	21.60
40-70	2220.63	N.A.	22.20
60-80	1179.87	N.A.	11.80
70-80	516.74	N.A.	5.20
80-90	370.62	N.A.	3.70
90-110	884.03	N.A.	8.80
90-120	1542.49	N.A.	15.40
90-130	2299.89	N.A.	23.00
90-150	3831.26	N.A.	38.20
90-180	4988.68	N.A.	49.80
110-180	4104.66	N.A.	41.00
0-180	10016.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	142.33
10-20	408.65
20-30	619.44
30-40	749.50
40-50	794.70
50-60	762.79
60-70	663.14
70-80	516.74
80-90	370.62
90-100	370.08
100-110	513.94
110-120	658.47
120-130	757.40
130-140	788.63
140-150	742.74
150-160	612.84
160-170	403.85
170-180	140.74

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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

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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

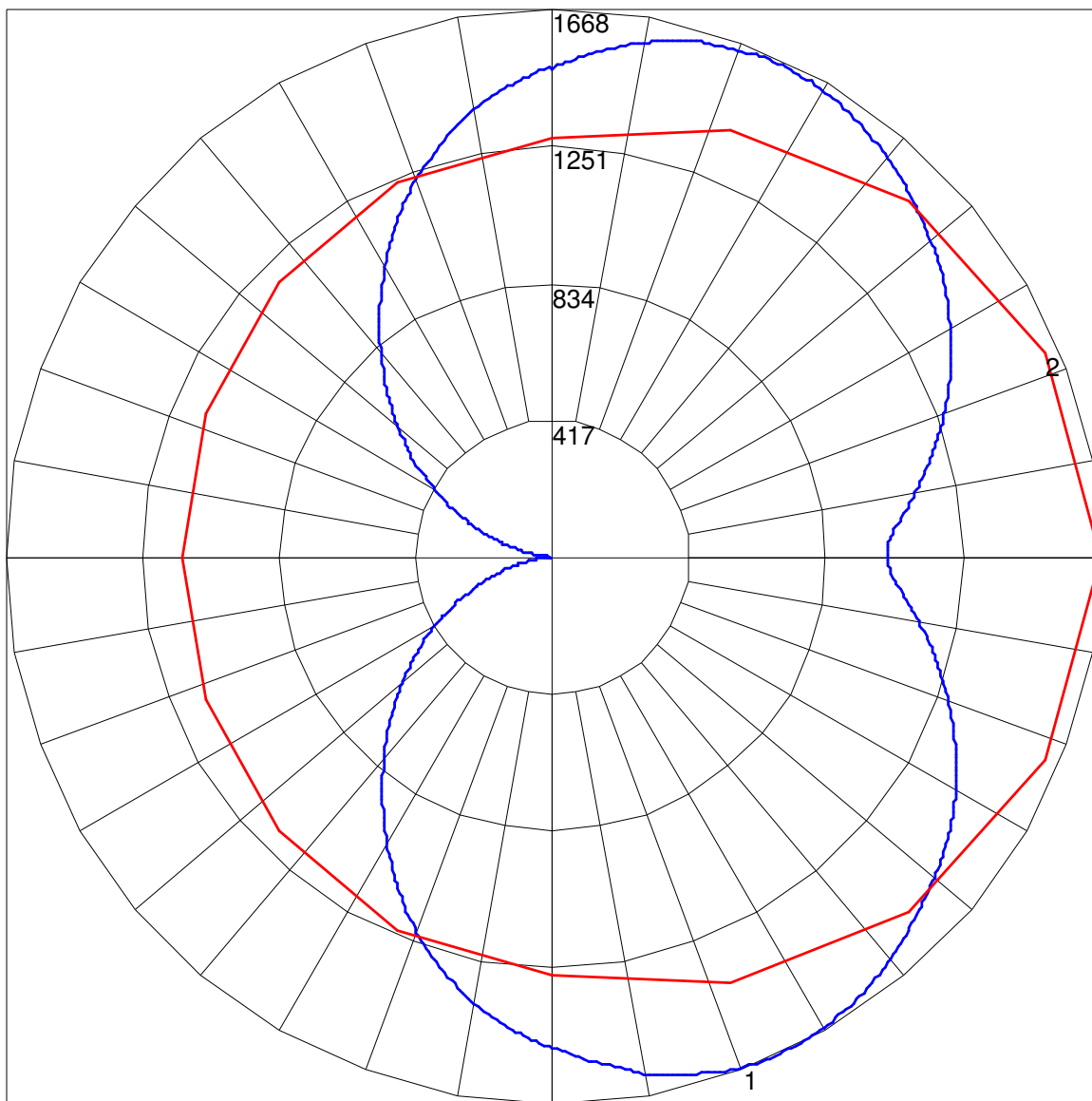
X=2H	Y=2H	21.8	22.7	22.7	23.7	24.9	15.8	16.7	16.7	17.7	18.9
	3H	24.9	25.7	25.8	26.7	28.0	17.1	18.0	18.1	18.9	20.2
	4H	26.5	27.2	27.4	28.2	29.5	17.6	18.4	18.5	19.3	20.6
	6H	28.2	28.9	29.1	29.9	31.2	17.8	18.5	18.8	19.5	20.8
	8H	29.1	29.8	30.0	30.8	32.1	17.9	18.6	18.8	19.6	20.9
	12H	30.1	30.7	31.1	31.7	33.1	17.9	18.5	18.9	19.5	20.9

UGR Viewed Endwise

4H	2H	22.1	22.8	23.0	23.8	25.1	17.0	17.8	18.0	18.8	20.1
	3H	25.4	26.0	26.4	27.0	28.4	18.7	19.3	19.7	20.3	21.7
	4H	27.1	27.8	28.1	28.8	30.1	19.2	19.9	20.2	20.9	22.2
	6H	29.0	29.6	30.1	30.6	31.9	19.6	20.2	20.6	21.2	22.5
	8H	30.1	30.5	31.1	31.6	32.9	19.7	20.2	20.7	21.2	22.6
	12H	31.2	31.6	32.2	32.7	34.0	19.8	20.2	20.8	21.3	22.6
8H	4H	27.3	27.8	28.3	28.8	30.1	20.4	20.9	21.4	21.9	23.2
	6H	29.3	29.8	30.4	30.8	32.2	21.0	21.4	22.0	22.5	23.8
	8H	30.5	30.9	31.5	31.9	33.3	21.2	21.6	22.2	22.6	24.0
	12H	31.8	32.1	32.8	33.2	34.6	21.3	21.7	22.4	22.7	24.1
12H	4H	27.2	27.7	28.3	28.7	30.1	20.7	21.2	21.7	22.2	23.5
	6H	29.4	29.7	30.4	30.8	32.2	21.5	21.9	22.6	22.9	24.3
	8H	30.6	30.9	31.6	31.9	33.3	21.8	22.2	22.9	23.2	24.6

Maximum UGR = 34.6

POLAR GRAPH



Maximum Candela = 1667.761 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.)