

IES INDOOR REPORT

PHOTOMETRIC FILENAME : CMH-3-00-L38-840U-L38-840D-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-3-00-L38-840U-L38-840D-DMA-DIM-UNV_
[LUMINAIRE] 3' wall mounted fixture with both up and down lighting
[MORE] compartments
[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	7863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	65.2
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)	2.75 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21649	20391	19440
55	21521	19486	17753
65	21558	18780	15749
75	21933	18316	12808
85	23056	18674	8487

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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	1176.831	1176.831	1176.831	1176.831	1176.831	1176.831	1176.831	1176.831	1176.831
0.5	1178.485	1180.449	1178.262	1182.744	1174.722	1180.825	1172.898	1172.836	1172.948
1.0	1181.693	1183.248	1182.587	1183.703	1173.998	1179.064	1169.533	1169.471	1169.661
1.5	1185.940	1187.007	1183.860	1186.267	1173.998	1175.776	1167.771	1165.381	1164.045
2.0	1189.542	1191.646	1186.738	1186.503	1173.118	1173.291	1164.562	1162.094	1160.758
2.5	1194.748	1194.839	1190.576	1187.540	1172.315	1171.687	1161.354	1159.687	1157.628
3.0	1198.192	1199.635	1193.611	1187.776	1171.513	1170.083	1158.947	1154.874	1153.538
3.5	1202.753	1203.865	1195.844	1190.497	1171.513	1166.795	1154.936	1151.587	1151.132
4.0	1208.761	1208.096	1199.681	1190.733	1169.830	1163.587	1153.332	1147.576	1145.517
4.5	1211.482	1211.602	1202.716	1190.245	1169.028	1162.784	1149.321	1143.565	1140.625
5.0	1212.991	1215.989	1205.342	1192.887	1167.424	1158.773	1144.508	1139.475	1135.890
5.5	1218.590	1219.574	1206.206	1193.201	1165.017	1154.762	1142.101	1135.464	1133.484
6.0	1222.349	1222.436	1208.517	1192.713	1163.334	1153.882	1138.892	1132.177	1128.592
6.5	1225.384	1227.861	1210.907	1192.304	1161.809	1150.752	1134.724	1126.483	1123.858
7.0	1228.419	1231.289	1212.495	1192.461	1160.928	1148.188	1130.713	1121.592	1118.164
7.5	1231.516	1234.150	1214.162	1192.130	1156.838	1144.177	1125.900	1117.581	1112.548
8.0	1237.475	1236.210	1216.221	1190.038	1154.432	1140.166	1121.889	1112.689	1106.933
8.5	1242.755	1239.228	1218.280	1191.233	1153.630	1137.759	1117.800	1107.876	1101.396
9.0	1249.971	1242.404	1220.104	1189.943	1149.619	1133.670	1112.908	1101.380	1095.781
9.5	1253.539	1245.170	1221.204	1190.336	1147.133	1128.857	1108.095	1096.488	1094.177
10.0	1257.517	1249.462	1222.225	1189.203	1144.727	1125.570	1104.084	1091.675	1085.353
10.5	1261.417	1251.993	1224.049	1187.991	1140.716	1121.637	1099.193	1085.981	1081.420
11.0	1263.790	1253.800	1225.149	1186.056	1139.033	1117.548	1093.499	1081.970	1075.805
11.5	1265.928	1256.645	1225.446	1184.121	1134.220	1112.735	1088.764	1075.474	1068.585
12.0	1267.264	1258.688	1226.546	1183.790	1131.011	1110.249	1083.872	1069.859	1062.246
12.5	1271.887	1262.335	1226.923	1181.855	1128.526	1103.753	1078.257	1064.244	1056.631
13.0	1274.496	1264.299	1227.456	1179.920	1125.317	1099.742	1072.563	1057.748	1048.766
13.5	1276.539	1266.908	1227.990	1178.787	1119.702	1094.929	1067.672	1051.252	1044.110
14.0	1280.421	1268.558	1228.602	1176.930	1117.217	1088.433	1060.452	1044.834	1037.126
14.5	1283.109	1270.287	1227.452	1174.115	1113.206	1084.422	1054.758	1038.417	1029.985
15.0	1283.155	1271.134	1227.828	1172.258	1107.512	1079.531	1049.143	1031.999	1022.844
15.5	1284.821	1272.061	1227.717	1168.640	1102.699	1074.639	1042.647	1024.779	1018.833
16.0	1285.528	1273.789	1226.803	1165.667	1098.610	1069.024	1037.755	1018.362	1009.129
16.5	1288.985	1275.518	1228.296	1164.612	1094.599	1063.408	1031.338	1012.747	1004.315
17.0	1292.773	1274.840	1228.184	1160.994	1090.588	1056.912	1025.644	1005.448	999.581
17.5	1293.369	1277.449	1227.192	1156.495	1084.894	1052.823	1018.345	1000.557	991.480
18.0	1295.647	1276.771	1226.200	1154.639	1079.278	1044.722	1011.126	993.337	985.865
18.5	1298.728	1277.776	1224.972	1151.178	1073.585	1039.909	1007.838	989.326	978.567
19.0	1297.954	1278.781	1224.703	1148.676	1068.772	1033.413	1001.421	982.106	971.347
19.5	1301.585	1278.905	1222.673	1145.451	1063.078	1028.522	994.123	974.887	963.247
20.0	1303.376	1278.384	1222.404	1141.188	1058.265	1022.104	990.914	967.667	956.027
20.5	1303.893	1279.389	1219.650	1137.727	1053.373	1015.608	983.616	960.369	947.927
21.0	1304.331	1278.789	1218.579	1132.976	1046.153	1009.191	976.396	953.149	940.707
21.5	1305.650	1279.149	1216.627	1130.553	1041.262	1005.903	969.979	945.127	932.685
22.0	1307.362	1278.864	1214.754	1127.406	1034.844	997.881	962.680	937.908	924.585
22.5	1308.350	1278.578	1212.803	1123.300	1028.348	992.109	955.382	930.688	917.365
23.0	1307.656	1279.017	1210.930	1119.116	1022.654	984.087	948.162	922.666	909.265
23.5	1307.842	1278.165	1209.780	1113.327	1015.434	980.878	940.864	914.644	901.243
24.0	1308.752	1278.037	1207.105	1110.259	1010.621	974.382	933.566	907.346	892.419
24.5	1309.269	1277.752	1205.232	1105.586	1003.323	967.163	926.346	899.403	885.199
25.0	1308.181	1277.545	1201.754	1102.204	1000.917	959.786	919.048	891.302	877.099
25.5	1306.292	1275.734	1199.881	1098.098	995.223	952.566	911.828	883.281	868.275
26.0	1306.809	1275.292	1197.206	1091.585	989.607	945.268	903.728	876.061	860.976
26.5	1305.800	1273.245	1194.609	1086.598	982.309	938.048	896.430	868.039	852.074

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CANDELA TABULATION - (Cont.)

27.0	1303.989	1272.000	1192.893	1082.492	975.011	930.672	888.408	860.017	844.052
27.5	1303.939	1271.558	1188.047	1078.386	968.515	923.452	881.110	851.917	835.952
28.0	1304.456	1269.511	1184.884	1070.993	961.295	915.351	873.811	843.895	827.128
28.5	1302.331	1267.465	1182.444	1067.611	954.878	908.132	865.790	835.873	819.027
29.0	1300.598	1267.022	1180.005	1061.098	946.856	900.834	857.768	827.049	811.005
29.5	1300.235	1263.371	1176.920	1054.428	939.558	892.812	849.667	819.027	802.582
30.0	1299.619	1261.167	1173.678	1050.244	932.259	884.633	842.448	810.927	794.243
30.5	1297.572	1259.356	1170.437	1044.533	925.040	877.413	834.347	802.825	786.219
31.0	1297.287	1258.112	1167.273	1038.666	917.820	869.313	826.325	794.723	777.878
31.5	1295.554	1256.710	1162.427	1036.086	910.522	861.291	818.304	786.781	769.618
32.0	1292.862	1254.663	1160.066	1029.416	902.500	853.993	810.203	778.517	761.674
32.5	1293.379	1251.814	1155.944	1026.034	895.202	845.892	802.101	770.495	753.255
33.0	1289.005	1250.648	1152.545	1020.323	887.982	837.870	793.999	762.074	744.832
33.5	1289.757	1246.919	1148.344	1013.732	879.882	829.770	785.977	753.972	736.730
34.0	1288.670	1244.148	1143.340	1007.943	871.860	821.748	777.877	746.030	728.308
34.5	1286.135	1241.299	1138.337	1001.273	863.759	814.450	769.775	737.767	720.126
35.0	1283.129	1238.450	1135.017	994.682	855.738	806.187	761.833	729.665	712.184
35.5	1281.239	1236.482	1131.539	988.893	848.518	798.087	753.891	721.483	703.842
36.0	1278.217	1232.029	1126.693	982.302	840.496	789.985	745.789	713.461	695.501
36.5	1276.484	1229.180	1123.294	975.711	831.672	781.884	737.368	705.600	687.238
37.0	1273.714	1227.212	1117.410	969.041	823.572	774.023	729.507	697.339	678.895
37.5	1271.258	1222.837	1112.329	962.450	815.550	765.682	721.485	688.996	671.036
38.0	1270.249	1219.186	1109.087	955.859	807.528	757.580	713.302	681.135	662.534
38.5	1265.229	1216.416	1102.479	949.268	799.347	749.317	705.281	672.954	654.111
39.0	1262.773	1214.447	1098.199	941.875	791.004	741.377	697.098	664.932	645.929
39.5	1259.279	1209.994	1098.811	935.205	782.902	733.275	689.237	656.750	637.827
40.0	1258.349	1207.224	1093.887	928.614	774.560	724.932	681.297	648.730	629.965
40.5	1253.486	1204.296	1088.962	921.221	766.219	716.832	673.034	640.706	621.863
41.0	1249.835	1200.079	1083.880	914.551	758.117	708.730	665.013	632.606	613.604
41.5	1245.775	1196.427	1078.956	907.315	749.613	700.309	656.830	624.745	605.661
42.0	1244.766	1193.500	1073.072	900.802	741.351	692.606	648.810	616.564	597.721
42.5	1241.429	1189.927	1068.068	894.290	733.008	684.425	640.708	608.382	589.858
43.0	1237.290	1183.870	1062.908	887.934	724.667	676.163	632.686	600.681	581.518
43.5	1235.322	1181.021	1057.983	880.698	715.923	667.900	624.424	592.420	573.735
44.0	1231.104	1177.370	1052.256	873.462	707.741	659.800	616.161	584.318	566.115
44.5	1227.767	1173.797	1046.294	866.147	699.238	651.778	608.061	576.378	558.175
45.0	1225.311	1170.948	1041.369	859.556	690.895	643.277	600.039	568.195	550.393
45.5	1220.056	1165.771	1035.563	852.323	682.554	635.093	591.696	560.334	542.213
46.0	1219.692	1162.199	1029.758	845.170	674.051	626.830	583.674	552.392	534.351
46.5	1214.829	1160.152	1024.755	837.936	665.626	618.650	575.412	544.292	526.811
47.0	1213.018	1158.908	1018.949	830.543	656.884	610.467	567.310	536.509	519.192
47.5	1210.326	1155.571	1013.065	823.547	648.220	602.125	559.209	528.489	511.090
48.0	1207.068	1150.882	1007.496	816.552	639.637	593.543	551.266	520.868	503.228
48.5	1201.813	1146.664	1001.454	809.476	631.214	585.200	543.005	512.928	495.447
49.0	1198.554	1142.211	995.727	802.159	622.793	576.938	534.903	505.227	487.505
49.5	1195.375	1137.757	989.843	794.845	614.290	568.835	526.961	497.448	479.965
50.0	1195.813	1134.263	983.959	787.690	605.706	560.575	519.021	489.666	472.023
50.5	1190.070	1129.810	978.233	780.299	597.203	552.071	510.839	482.285	464.324
51.0	1188.982	1125.514	972.506	773.146	588.780	543.889	502.898	474.425	456.544
51.5	1185.000	1121.139	965.819	765.751	580.357	535.466	494.795	466.644	449.004
52.0	1181.018	1115.884	959.857	758.038	571.774	527.364	487.014	459.025	441.624
52.5	1177.603	1111.509	954.130	750.806	563.351	519.184	479.074	451.404	433.923
53.0	1173.385	1106.977	947.522	743.252	554.848	510.841	471.052	443.783	426.142
53.5	1169.168	1102.681	941.558	735.780	546.585	502.418	463.031	436.243	418.362
54.0	1165.265	1098.149	935.353	728.146	538.004	494.316	455.089	428.461	411.462
54.5	1161.047	1093.208	928.906	720.432	529.741	486.294	447.229	421.003	403.844

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CANDELA TABULATION - (Cont.)

55.0	1156.987	1088.676	922.781	712.960	521.318	477.953	439.288	413.302	396.142
55.5	1152.847	1083.421	916.734	705.166	512.975	469.532	431.428	405.681	388.761
56.0	1148.787	1079.046	910.448	697.613	504.472	461.428	423.645	398.381	380.982
56.5	1144.884	1073.790	903.921	689.739	496.048	453.167	415.544	390.520	373.842
57.0	1140.745	1069.494	897.477	681.944	487.546	445.063	408.002	383.302	366.782
57.5	1135.803	1064.317	891.267	674.152	479.202	436.644	400.303	375.520	359.002
58.0	1131.429	1058.983	884.902	666.117	470.540	428.460	392.361	368.221	351.542
58.5	1127.525	1053.806	878.379	658.324	462.037	420.358	384.741	360.760	344.001
59.0	1123.386	1048.787	871.613	650.289	453.373	412.177	377.120	353.220	336.862
59.5	1118.524	1043.374	865.323	642.255	444.629	403.914	369.579	345.920	329.562
60.0	1113.268	1038.118	858.558	634.463	436.046	395.573	362.039	338.540	322.182
60.5	1108.484	1032.942	852.273	626.670	427.543	387.391	354.339	331.240	314.802
61.0	1104.345	1027.683	845.747	619.036	419.120	379.129	346.638	323.860	307.502
61.5	1099.325	1022.427	839.222	611.163	410.536	371.107	338.937	316.480	300.122
62.0	1093.503	1016.851	832.375	603.128	402.112	362.846	331.557	309.101	293.062
62.5	1088.562	1011.351	825.926	595.255	393.448	354.744	323.856	301.641	285.602
63.0	1083.621	1006.093	819.484	587.382	385.105	346.401	316.157	294.341	278.463
63.5	1078.680	1000.276	812.958	579.507	376.602	338.139	308.615	287.120	271.082
64.0	1073.817	994.619	806.111	571.634	368.099	330.277	300.994	279.659	264.185
64.5	1068.074	989.043	799.667	563.761	359.678	322.095	293.213	272.359	257.526
65.0	1062.573	983.466	792.582	555.567	351.175	314.073	285.432	265.140	250.065
65.5	1056.995	977.569	786.054	547.454	342.591	305.891	277.971	257.840	243.006
66.0	1051.572	971.510	779.448	539.583	334.247	297.710	270.190	250.700	236.107
66.5	1046.467	965.694	772.445	531.629	325.906	289.528	262.731	243.320	229.208
67.0	1040.724	959.876	765.917	523.676	317.561	281.506	255.430	236.261	222.550
67.5	1035.142	954.057	758.910	515.482	309.217	273.645	247.970	229.122	215.571
68.0	1029.640	948.003	752.067	507.370	300.475	265.863	240.431	222.062	208.432
68.5	1023.816	941.943	745.302	499.337	292.052	257.681	232.890	215.003	201.373
69.0	1018.718	935.968	738.215	491.466	283.789	249.900	225.430	207.944	194.875
69.5	1012.974	930.151	731.609	483.673	275.527	241.878	218.369	201.045	188.137
70.0	1007.550	924.090	724.525	475.880	267.184	234.097	211.071	194.146	181.397
70.5	1001.965	917.953	717.678	468.007	258.923	226.157	203.851	187.087	174.419
71.0	996.543	911.894	710.753	459.898	250.579	218.456	196.631	180.429	167.681
71.5	991.037	905.835	703.510	452.107	242.717	210.755	189.574	173.771	161.023
72.0	985.061	899.381	696.744	444.555	234.534	203.054	182.513	167.113	154.924
72.5	979.395	893.480	689.818	436.844	225.791	195.433	175.534	160.695	148.106
73.0	973.497	887.264	683.054	429.372	217.928	187.973	168.715	153.957	141.688
73.5	967.752	880.887	676.212	421.660	209.828	180.753	161.817	147.379	135.110
74.0	962.088	874.749	669.128	413.951	201.885	173.453	154.998	141.120	128.855
74.5	955.950	868.297	662.281	406.322	194.184	166.234	148.340	134.783	122.999
75.0	950.126	862.159	655.122	398.928	186.402	159.014	141.762	128.528	116.662
75.5	944.145	855.782	648.280	391.221	178.780	151.955	135.182	122.110	110.644
76.0	938.086	849.646	641.756	383.672	171.159	145.056	128.526	116.094	104.788
76.5	932.018	843.191	634.756	376.518	163.538	138.237	121.948	109.837	99.014
77.0	925.879	837.136	627.914	368.890	156.157	131.419	115.850	103.981	93.637
77.5	919.738	830.763	621.074	361.818	148.616	124.680	109.514	98.045	88.022
78.0	913.759	824.628	614.471	354.590	141.557	117.942	103.337	92.349	82.567
78.5	907.296	818.258	607.947	347.758	134.417	111.364	97.241	86.732	77.112
79.0	901.239	811.725	601.268	340.532	127.517	105.027	91.224	81.117	71.577
79.5	895.098	805.592	594.745	333.543	120.538	98.770	85.367	75.501	66.524
80.0	888.803	799.379	588.147	326.638	113.638	92.672	79.671	70.207	61.390
80.5	882.504	793.091	581.546	320.128	106.979	86.575	74.056	64.913	56.416
81.0	876.605	787.038	575.427	313.621	100.560	80.639	68.601	59.779	51.282
81.5	870.546	780.506	569.070	307.115	94.303	74.942	63.225	54.725	46.309
82.0	864.408	774.455	562.950	300.609	88.126	69.326	57.852	49.751	41.657
82.5	858.905	768.965	556.914	294.342	81.950	63.952	52.877	45.177	37.242

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CANDELA TABULATION - (Cont.)

83.0	852.931	763.073	550.717	288.474	76.013	58.497	47.903	40.525	32.671
83.5	847.276	757.100	544.681	282.687	70.318	53.201	43.170	35.952	28.259
84.0	841.779	751.450	538.966	276.905	64.783	48.147	38.517	31.540	23.926
84.5	836.120	745.642	533.172	271.121	59.328	43.254	33.785	27.128	19.917
85.0	830.783	739.753	527.458	265.658	54.034	38.521	29.292	23.037	16.305
85.5	825.524	734.342	521.502	260.194	48.819	33.788	24.959	19.106	13.096
86.0	820.270	729.166	515.788	254.972	43.766	29.215	20.787	15.577	10.770
86.5	815.406	724.463	510.633	249.750	38.872	24.802	16.777	12.847	9.164
87.0	810.935	721.178	505.549	244.927	34.220	20.470	13.247	10.682	8.121
87.5	807.720	718.681	501.731	239.945	29.567	16.297	10.758	9.316	7.478
88.0	806.164	717.522	499.010	235.041	24.834	12.206	8.994	8.354	7.154
88.5	804.992	716.675	497.308	230.765	20.101	8.837	8.029	7.632	6.754
89.0	804.297	716.462	496.873	227.828	15.286	7.232	7.468	7.389	6.672
89.5	804.157	716.329	496.515	226.855	11.192	6.669	7.227	7.149	6.592
90.0	804.249	716.273	496.557	226.911	9.573	6.509	7.145	7.147	6.671
90.5	803.630	716.461	496.603	227.367	11.371	6.507	7.144	7.145	6.589
91.0	803.966	717.047	497.203	229.502	15.298	6.584	7.063	7.224	6.589
91.5	804.144	718.113	498.525	233.244	20.012	7.841	7.142	7.144	6.509
92.0	805.121	719.820	501.528	237.709	24.569	10.118	7.378	7.063	6.666
92.5	806.178	722.723	505.651	242.174	28.967	13.810	8.005	7.299	6.823
93.0	808.355	726.353	510.572	247.353	33.365	18.132	9.576	7.613	7.373
93.5	811.175	730.939	515.815	251.975	37.922	22.453	12.247	8.476	8.630
94.0	815.355	736.165	521.211	257.229	42.715	26.853	15.861	10.205	11.065
94.5	820.415	741.472	526.288	262.405	47.586	31.094	20.025	12.956	14.444
95.0	825.715	747.173	532.241	267.577	52.614	35.729	24.266	16.254	18.213
95.5	831.015	752.954	537.954	272.988	57.800	40.445	28.666	20.261	22.536
96.0	836.553	758.336	543.584	278.555	63.142	45.157	33.382	24.584	26.779
96.5	841.932	763.876	549.375	284.361	68.640	50.107	38.017	28.904	31.336
97.0	847.388	769.498	555.166	290.243	74.297	55.057	42.810	33.460	35.971
97.5	853.004	775.273	561.035	296.124	80.192	60.321	47.681	38.255	40.528
98.0	858.456	781.049	566.908	302.398	86.004	65.663	52.552	42.890	45.162
98.5	864.227	786.982	573.093	308.752	92.212	71.163	57.658	47.760	50.192
99.0	869.918	792.995	579.279	315.024	98.655	77.055	62.923	52.709	55.220
99.5	875.610	798.848	585.541	321.614	105.096	82.869	68.343	57.897	60.486
100.0	881.299	804.860	591.962	328.279	111.695	88.998	73.764	63.082	65.513
100.5	886.990	810.948	598.301	334.946	118.452	95.126	79.421	68.267	70.855
101.0	892.997	816.880	604.801	341.848	125.368	101.254	85.315	73.610	76.119
101.5	898.529	822.806	611.217	348.672	132.359	107.855	91.129	79.031	81.698
102.0	904.532	828.978	617.949	355.653	139.508	113.980	97.179	84.609	87.435
102.5	910.300	834.908	624.444	362.554	146.658	120.896	103.228	90.345	93.091
103.0	916.230	840.995	631.017	369.535	154.123	129.067	109.435	96.080	98.905
103.5	922.153	847.005	637.669	376.671	161.666	135.824	115.720	101.973	104.641
104.0	928.085	853.012	644.401	383.966	169.051	141.558	122.006	107.946	110.769
104.5	933.848	859.338	651.049	391.103	176.594	148.787	128.606	114.072	116.897
105.0	939.933	865.268	657.622	398.239	184.450	155.701	135.128	120.281	123.104
105.5	945.147	871.355	664.430	405.534	192.230	163.008	141.726	126.488	129.311
106.0	951.149	877.442	671.001	412.906	200.085	171.179	148.485	132.773	135.677
106.5	956.760	883.291	677.573	420.359	208.179	179.664	155.320	139.139	141.960
107.0	962.606	889.300	684.223	427.574	216.115	185.871	162.077	145.658	148.797
107.5	968.452	895.385	690.795	435.026	224.207	192.549	169.148	152.100	155.161
108.0	974.061	901.313	697.605	442.634	232.301	200.092	176.062	159.016	161.840
108.5	979.590	907.242	704.334	450.243	240.551	207.793	183.054	165.614	168.441
109.0	985.515	912.934	710.986	457.773	248.722	215.413	190.283	172.530	175.198
109.5	990.965	919.262	717.634	465.223	256.893	223.114	197.434	179.208	181.876
110.0	996.653	924.794	724.129	472.990	265.221	230.892	204.505	186.122	188.870
110.5	1002.183	930.725	730.385	480.598	273.549	238.670	211.812	193.036	195.705

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CANDELA TABULATION - (Cont.)

111.0	1007.792	936.261	736.954	488.207	281.956	246.529	219.118	200.030	202.698
111.5	1013.247	942.032	743.608	495.974	290.362	254.385	226.347	207.101	209.376
112.0	1018.462	947.806	750.098	503.660	298.769	262.321	233.811	214.172	216.131
112.5	1024.071	953.500	756.749	511.504	307.413	270.413	241.353	221.164	223.047
113.0	1029.125	959.194	763.323	519.190	315.741	278.505	248.738	228.157	230.118
113.5	1034.657	964.810	769.812	527.192	324.148	286.678	256.359	235.385	237.346
114.0	1039.948	970.185	776.304	534.879	332.791	294.692	264.139	242.535	244.417
114.5	1045.163	975.720	782.797	542.644	341.119	302.942	273.408	249.922	251.488
115.0	1050.063	981.337	789.290	550.489	349.606	311.114	283.308	257.229	258.718
115.5	1055.045	986.873	795.703	558.254	358.169	319.442	290.379	264.378	265.711
116.0	1060.415	992.014	802.276	566.019	366.733	327.613	295.252	271.685	273.332
116.5	1065.240	997.552	808.450	573.785	375.140	335.784	302.009	278.992	280.481
117.0	1070.610	1003.089	815.101	581.629	383.705	344.270	310.967	286.456	287.947
117.5	1075.355	1008.150	821.355	589.315	392.426	352.364	321.024	293.605	295.016
118.0	1080.099	1013.605	827.690	597.161	400.755	360.849	329.036	301.149	302.403
118.5	1084.603	1018.671	834.340	604.845	409.397	369.179	334.539	308.297	309.710
119.0	1089.428	1023.576	840.519	612.690	417.962	377.350	340.667	315.999	317.254
119.5	1094.253	1029.267	846.851	620.377	426.526	385.442	348.210	323.384	324.323
120.0	1098.837	1034.412	853.107	627.985	435.249	393.692	355.909	330.926	332.182
120.5	1103.502	1039.398	859.363	635.435	443.734	402.100	363.687	338.392	339.410
121.0	1108.167	1044.303	865.698	643.200	451.984	410.271	371.387	346.013	346.797
121.5	1112.911	1049.449	871.797	650.728	460.626	418.364	379.086	355.048	354.182
122.0	1116.790	1054.434	878.054	658.495	469.190	426.536	387.102	365.342	361.725
122.5	1121.615	1058.473	884.073	666.024	477.597	434.629	394.802	374.140	369.346
123.0	1126.360	1063.619	890.250	673.551	486.084	442.958	402.660	379.956	376.888
123.5	1131.104	1068.444	896.509	681.002	494.647	451.051	410.517	386.948	384.666
124.0	1135.063	1072.724	902.763	688.453	502.976	459.300	418.454	396.064	395.118
124.5	1139.808	1077.629	908.779	696.061	511.541	467.630	426.310	403.763	408.711
125.0	1143.928	1082.695	915.038	703.588	519.869	475.566	434.324	408.949	417.431
125.5	1147.807	1086.895	921.214	711.119	528.433	483.815	442.183	414.450	421.518
126.0	1152.471	1091.880	927.000	718.332	536.761	491.986	450.118	421.755	422.932
126.5	1156.350	1096.240	933.172	725.705	545.089	500.002	457.896	429.299	429.532
127.0	1160.469	1101.225	939.745	733.077	553.576	508.330	465.753	436.922	437.074
127.5	1164.509	1105.425	945.372	740.213	561.983	516.422	473.690	444.464	444.697
128.0	1168.387	1109.705	950.839	747.662	570.233	524.750	481.705	452.085	452.475
128.5	1172.427	1114.690	957.332	755.034	578.798	533.080	489.325	459.787	460.096
129.0	1176.466	1118.970	962.959	762.249	587.283	541.173	497.576	467.642	467.874
129.5	1176.416	1123.170	968.586	769.543	595.690	549.344	505.668	475.264	475.652
130.0	1180.536	1127.370	975.079	776.836	604.018	557.515	513.682	482.886	483.432
130.5	1183.004	1131.570	980.626	784.208	612.348	565.844	521.698	490.507	491.289
131.0	1186.883	1134.903	986.253	791.343	620.833	574.015	529.474	498.208	498.989
131.5	1187.860	1138.558	991.880	798.558	629.397	582.108	537.411	506.065	506.768
132.0	1194.015	1141.972	997.507	805.695	637.804	590.200	545.582	513.843	514.782
132.5	1198.135	1145.306	1003.135	812.831	646.369	598.451	553.518	521.621	522.557
133.0	1199.897	1148.175	1008.762	819.810	654.855	606.544	561.767	529.244	530.340
133.5	1203.776	1150.803	1014.389	827.024	663.106	614.795	569.702	538.043	538.118
134.0	1209.387	1155.869	1019.936	834.319	671.434	623.045	577.875	545.743	546.134
134.5	1211.069	1159.283	1024.777	841.454	679.841	631.059	585.968	553.601	553.832
135.0	1215.028	1164.348	1030.404	848.749	688.247	639.465	593.901	561.536	562.085
135.5	1219.933	1166.897	1036.031	855.098	696.656	647.715	602.075	569.552	569.704
136.0	1221.535	1170.391	1041.418	862.393	704.984	655.966	610.011	577.171	577.720
136.5	1227.065	1173.885	1046.420	869.448	713.233	663.900	618.025	585.108	585.337
137.0	1227.176	1178.005	1051.181	876.663	721.642	672.228	626.117	592.888	593.670
137.5	1231.761	1182.284	1056.888	883.172	729.814	680.561	633.895	600.663	601.527
138.0	1233.443	1184.913	1059.918	890.147	738.059	688.570	641.826	608.439	608.899
138.5	1238.268	1189.978	1064.054	896.576	745.996	696.662	649.921	616.692	617.313

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CANDELA TABULATION - (Cont.)

139.0	1240.976	1191.901	1069.681	903.711	754.167	704.519	657.857	624.470	625.328
139.5	1243.204	1195.235	1073.657	909.980	762.420	712.770	665.794	632.407	633.265
140.0	1245.672	1198.810	1078.578	916.329	770.512	720.627	673.493	640.186	641.123
140.5	1249.791	1202.384	1081.063	923.383	778.685	728.800	681.666	648.358	649.610
141.0	1252.179	1205.798	1085.118	929.652	787.015	736.737	689.758	656.686	657.939
141.5	1255.432	1207.016	1090.746	936.707	795.264	744.750	697.694	664.857	666.031
142.0	1257.275	1211.376	1094.721	943.056	803.121	752.764	705.627	673.028	674.202
142.5	1259.743	1214.790	1099.643	949.325	810.978	760.621	713.484	680.807	682.373
143.0	1263.622	1217.338	1103.618	955.754	818.835	768.635	721.341	688.663	690.465
143.5	1266.956	1219.261	1107.674	962.183	827.477	776.806	729.512	696.991	698.638
144.0	1265.495	1222.050	1112.516	968.613	835.414	784.820	737.367	705.161	706.807
144.5	1269.775	1225.624	1116.571	974.962	843.351	792.362	745.382	713.253	714.978
145.0	1273.734	1228.333	1119.841	980.685	851.208	800.219	753.239	721.110	723.465
145.5	1273.925	1231.041	1125.469	987.115	859.064	808.156	761.094	729.202	731.322
146.0	1276.313	1232.804	1128.658	992.839	866.216	816.013	768.794	737.059	739.414
146.5	1280.673	1236.378	1132.794	996.911	874.072	823.869	776.572	745.071	747.507
147.0	1282.436	1238.141	1136.770	1002.555	881.929	831.726	784.664	753.005	755.676
147.5	1285.769	1241.795	1140.120	1006.707	889.080	839.743	792.442	761.019	763.533
148.0	1285.800	1242.147	1144.176	1011.565	896.937	847.520	800.299	769.033	771.783
148.5	1286.071	1244.070	1146.661	1017.994	904.088	854.591	808.236	777.047	779.798
149.0	1288.459	1247.644	1150.716	1023.638	912.025	861.742	816.013	784.902	787.967
149.5	1289.677	1246.424	1153.201	1027.791	919.096	869.679	823.869	792.523	795.826
150.0	1290.413	1249.839	1157.257	1034.300	926.167	877.536	831.726	800.379	804.468
150.5	1292.961	1251.761	1162.178	1039.238	933.238	884.687	839.583	809.022	812.325
151.0	1293.072	1253.684	1163.172	1044.962	940.390	891.758	846.734	816.798	820.887
151.5	1295.700	1254.116	1168.013	1049.820	947.541	899.615	854.591	824.735	828.824
152.0	1295.891	1255.334	1169.792	1055.544	954.692	906.766	862.448	832.512	837.386
152.5	1295.216	1257.256	1173.142	1059.696	961.763	913.837	870.385	840.369	845.323
153.0	1295.408	1257.608	1176.493	1065.420	968.129	920.989	877.375	847.440	853.180
153.5	1297.956	1259.611	1178.977	1070.358	972.138	928.060	885.312	856.082	861.037
154.0	1296.575	1260.829	1180.756	1076.082	979.994	935.997	892.383	863.859	869.759
154.5	1298.338	1261.260	1182.375	1080.235	985.494	942.282	900.240	871.715	877.696
155.0	1300.020	1262.398	1185.564	1084.387	990.288	949.513	907.391	878.786	885.473
155.5	1299.506	1262.124	1187.808	1089.406	995.868	956.504	915.248	886.643	893.410
156.0	1297.260	1263.341	1189.266	1093.478	1002.939	963.736	922.399	894.500	901.186
156.5	1299.022	1264.639	1190.885	1098.496	1008.519	967.664	929.471	902.276	908.257
157.0	1299.839	1264.205	1193.289	1102.729	1014.885	974.815	936.542	909.347	916.194
157.5	1296.229	1264.717	1194.908	1106.016	1020.385	981.101	944.479	917.204	924.051
158.0	1296.467	1262.872	1196.767	1110.168	1025.964	987.386	951.550	925.061	931.908
158.5	1294.365	1263.384	1197.840	1113.615	1032.250	992.181	957.835	932.132	938.979
159.0	1292.199	1263.896	1199.700	1117.768	1037.830	998.466	962.549	939.203	946.836
159.5	1294.282	1264.328	1200.773	1122.001	1042.544	1005.537	972.057	947.060	953.907
160.0	1291.715	1263.894	1201.927	1125.367	1048.909	1011.117	975.986	954.131	961.763
160.5	1289.870	1263.379	1203.866	1128.029	1053.704	1017.482	983.137	961.202	968.915
161.0	1290.526	1263.490	1205.020	1131.476	1057.632	1022.982	988.637	966.702	976.691
161.5	1289.002	1260.619	1206.879	1134.843	1063.917	1029.268	993.431	973.773	982.977
162.0	1287.959	1259.399	1204.970	1138.290	1067.846	1034.848	1000.502	980.844	985.959
162.5	1285.008	1257.474	1207.696	1139.380	1074.211	1041.213	1006.002	986.343	992.869
163.0	1284.172	1258.771	1207.358	1143.613	1078.220	1047.499	1013.939	991.843	998.914
163.5	1282.712	1256.221	1207.806	1145.408	1083.720	1052.293	1019.438	998.914	1005.905
164.0	1283.144	1256.188	1208.960	1148.069	1087.648	1057.007	1024.938	1005.200	1012.110
164.5	1280.593	1253.718	1208.623	1149.865	1092.442	1062.507	1032.089	1012.351	1020.592
165.0	1278.123	1253.604	1209.071	1152.526	1097.156	1068.792	1038.375	1017.851	1026.878
165.5	1274.081	1249.563	1208.814	1155.107	1101.951	1072.801	1043.089	1023.350	1032.377
166.0	1274.048	1248.039	1208.396	1157.769	1105.879	1077.515	1048.669	1030.421	1040.074
166.5	1272.284	1246.434	1208.925	1160.430	1109.022	1083.094	1054.874	1036.707	1047.145

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CANDELA TABULATION - (Cont.)

167.0	1270.358	1244.830	1207.882	1160.029	1113.030	1087.023	1061.240	1042.287	1053.430
167.5	1266.942	1241.815	1207.625	1161.985	1116.253	1091.737	1065.168	1049.438	1058.930
168.0	1261.489	1239.505	1207.368	1163.941	1120.182	1096.531	1071.534	1055.723	1065.295
168.5	1260.671	1237.660	1207.111	1165.977	1124.110	1101.245	1077.899	1062.089	1071.501
169.0	1255.924	1234.949	1205.282	1164.790	1128.119	1105.959	1081.747	1066.803	1076.920
169.5	1253.534	1232.014	1205.025	1167.452	1130.395	1109.102	1088.033	1073.874	1081.554
170.0	1251.144	1228.998	1203.982	1167.917	1132.752	1113.896	1092.827	1078.588	1087.839
170.5	1248.834	1227.635	1201.448	1169.167	1135.190	1117.825	1096.836	1084.168	1093.419
171.0	1244.006	1224.780	1202.057	1169.712	1136.761	1121.753	1100.844	1089.668	1098.213
171.5	1240.206	1221.925	1198.657	1170.257	1140.770	1124.190	1105.638	1095.328	1104.499
172.0	1238.136	1218.365	1198.560	1171.508	1143.992	1128.119	1110.352	1098.471	1109.052
172.5	1234.416	1214.885	1196.026	1171.267	1146.269	1132.047	1115.066	1104.756	1115.258
173.0	1229.204	1212.030	1193.653	1171.106	1147.921	1135.975	1119.780	1109.470	1118.320
173.5	1226.429	1208.470	1192.931	1172.517	1149.412	1137.547	1123.709	1113.398	1123.900
174.0	1223.494	1205.695	1189.771	1172.357	1150.198	1141.475	1126.852	1118.193	1129.319
174.5	1218.907	1200.643	1187.558	1172.196	1152.635	1145.403	1130.700	1122.907	1131.676
175.0	1214.321	1197.163	1185.345	1170.545	1154.992	1147.760	1133.842	1126.755	1136.310
175.5	1209.814	1193.844	1183.212	1172.116	1156.483	1149.251	1137.851	1130.763	1139.453
176.0	1208.611	1190.604	1181.160	1172.036	1158.135	1152.474	1141.699	1134.772	1145.819
176.5	1202.069	1185.954	1179.187	1171.331	1158.840	1154.046	1146.493	1138.781	1148.256
177.0	1198.669	1183.035	1175.804	1171.331	1159.000	1156.403	1147.279	1142.629	1152.184
177.5	1193.617	1178.626	1174.858	1169.759	1160.492	1157.188	1151.207	1145.771	1154.461
178.0	1188.887	1175.948	1173.206	1169.759	1161.277	1159.545	1153.484	1150.566	1160.827
178.5	1183.852	1171.073	1170.849	1168.974	1161.277	1161.902	1155.841	1153.628	1164.675
179.0	1180.468	1169.422	1167.707	1168.974	1162.063	1162.688	1159.850	1156.771	1166.246
179.5	1177.246	1166.359	1166.135	1167.402	1162.063	1164.260	1161.421	1159.208	1172.612
180.0	1165.029	1165.029	1165.029	1165.029	1165.029	1165.029	1165.029	1165.029	1165.029

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	432.54	N.A.	5.50
0-30	918.84	N.A.	11.70
0-40	1507.23	N.A.	19.20
0-60	2729.93	N.A.	34.70
0-80	3656.18	N.A.	46.50
0-90	3947.14	N.A.	50.20
10-90	3835.4	N.A.	48.80
20-40	1074.68	N.A.	13.70
20-50	1698.56	N.A.	21.60
40-70	1743.29	N.A.	22.20
60-80	926.25	N.A.	11.80
70-80	405.66	N.A.	5.20
80-90	290.96	N.A.	3.70
90-110	694.00	N.A.	8.80
90-120	1210.93	N.A.	15.40
90-130	1805.52	N.A.	23.00
90-150	3007.72	N.A.	38.20
90-180	3916.35	N.A.	49.80
110-180	3222.35	N.A.	41.00
0-180	7863.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.74
10-20	320.81
20-30	486.29
30-40	588.39
40-50	623.88
50-60	598.82
60-70	520.59
70-80	405.66
80-90	290.96
90-100	290.53
100-110	403.47
110-120	516.93
120-130	594.59
130-140	619.11
140-150	583.09
150-160	481.11
160-170	317.04
170-180	110.49

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

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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	21.9	22.8	22.9	23.8	25.1	16.0	16.9	16.9	17.9	19.1
	3H	25.0	25.8	26.0	26.8	28.1	17.3	18.2	18.3	19.1	20.4
	4H	26.6	27.4	27.6	28.4	29.6	17.8	18.5	18.7	19.5	20.8
	6H	28.3	29.0	29.2	30.0	31.3	18.0	18.7	19.0	19.7	21.0
	8H	29.1	29.8	30.1	30.9	32.2	18.1	18.7	19.0	19.8	21.1
	12H	30.1	30.8	31.1	31.8	33.1	18.1	18.7	19.1	19.7	21.1

UGR Viewed Endwise

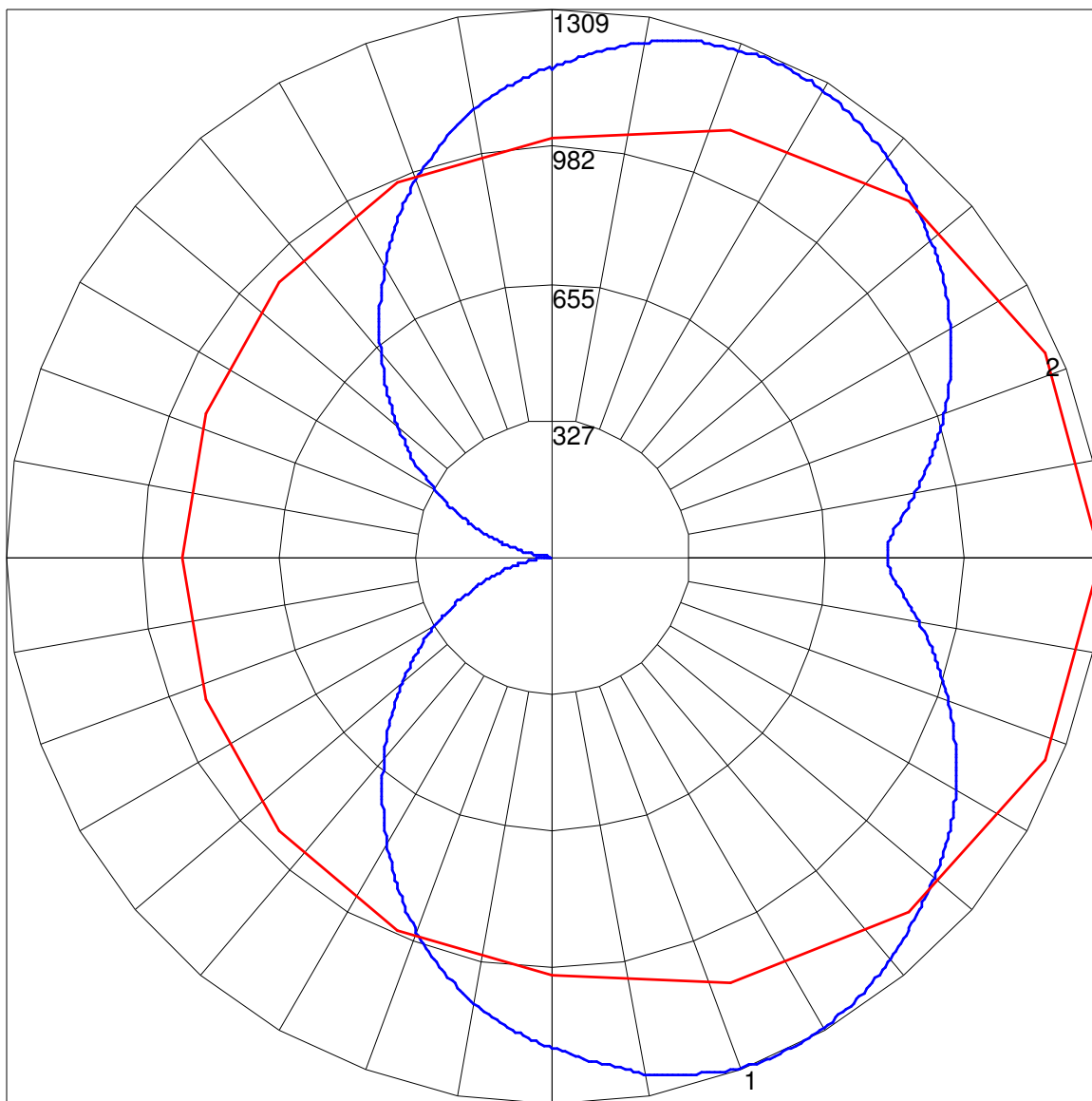
4H	2H	22.2	23.0	23.2	24.0	25.3	17.2	18.0	18.2	19.0	20.3
	3H	25.5	26.2	26.5	27.2	28.5	18.9	19.5	19.8	20.5	21.8
	4H	27.3	27.9	28.3	28.9	30.2	19.4	20.0	20.4	21.0	22.4
	6H	29.2	29.7	30.2	30.7	32.0	19.8	20.3	20.8	21.4	22.7
	8H	30.1	30.6	31.2	31.7	33.0	19.9	20.4	20.9	21.4	22.8
	12H	31.2	31.7	32.3	32.7	34.1	19.9	20.4	21.0	21.4	22.8

8H	4H	27.4	27.9	28.4	28.9	30.3	20.5	21.0	21.5	22.0	23.4
	6H	29.5	29.9	30.5	30.9	32.3	21.2	21.6	22.2	22.6	24.0
	8H	30.6	31.0	31.6	32.0	33.4	21.4	21.8	22.4	22.8	24.2
	12H	31.9	32.2	32.9	33.3	34.7	21.5	21.8	22.5	22.9	24.3

12H	4H	27.4	27.8	28.4	28.9	30.2	20.9	21.3	21.9	22.4	23.7
	6H	29.5	29.8	30.5	30.9	32.3	21.7	22.1	22.7	23.1	24.5
	8H	30.7	31.0	31.7	32.0	33.4	22.0	22.3	23.0	23.4	24.8

Maximum UGR = 34.7

POLAR GRAPH



Maximum Candela = 1309.269 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.)