



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from UL#13052732.03A  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 15 Mar 2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000k  
 [LUMINAIRE] Formed White aluminum housing, frosted lens enclosures  
 [LAMP] White LEDs  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	52.4
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)	4.00 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.33 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16597	7009	5368
55	14253	4921	3655
65	11718	3221	2335
75	8666	1810	1311
85	4419	654	516

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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>	<u>202.5</u>
0.0	1452.958	1452.958	1452.958	1452.958	1452.958	1452.958	1452.958	1452.958	1452.958	1452.958
0.5	1442.298	1457.222	1450.826	1455.090	1456.156	1455.090	1450.826	1457.222	1442.298	1456.156
1.0	1441.232	1457.222	1450.826	1456.156	1457.222	1456.156	1450.826	1457.222	1441.232	1456.156
1.5	1441.232	1457.222	1450.826	1457.222	1458.288	1457.222	1450.826	1457.222	1441.232	1455.090
2.0	1440.166	1457.222	1450.826	1456.156	1459.354	1456.156	1450.826	1457.222	1440.166	1454.024
2.5	1440.166	1457.222	1450.826	1457.222	1459.354	1457.222	1450.826	1457.222	1440.166	1451.892
3.0	1439.100	1456.156	1450.826	1457.222	1459.354	1457.222	1450.826	1456.156	1439.100	1450.826
3.5	1438.034	1456.156	1449.760	1456.156	1458.288	1456.156	1449.760	1456.156	1438.034	1448.694
4.0	1435.902	1455.090	1448.694	1456.156	1458.288	1456.156	1448.694	1455.090	1435.902	1447.628
4.5	1433.770	1452.958	1448.694	1455.090	1457.222	1455.090	1448.694	1452.958	1433.770	1445.496
5.0	1432.704	1451.892	1447.628	1454.024	1455.090	1454.024	1447.628	1451.892	1432.704	1443.364
5.5	1430.572	1450.826	1445.496	1452.958	1454.024	1452.958	1445.496	1450.826	1430.572	1440.166
6.0	1428.440	1448.694	1444.430	1450.826	1451.892	1450.826	1444.430	1448.694	1428.440	1438.034
6.5	1426.308	1446.562	1442.298	1448.694	1449.760	1448.694	1442.298	1446.562	1426.308	1434.836
7.0	1423.110	1444.430	1440.166	1446.562	1446.562	1446.562	1440.166	1444.430	1423.110	1431.638
7.5	1420.978	1442.298	1438.034	1444.430	1444.430	1444.430	1438.034	1442.298	1420.978	1428.440
8.0	1417.780	1440.166	1434.836	1441.232	1440.166	1441.232	1434.836	1440.166	1417.780	1425.242
8.5	1414.582	1436.968	1432.704	1438.034	1436.968	1438.034	1432.704	1436.968	1414.582	1422.044
9.0	1411.384	1433.770	1429.506	1433.770	1432.704	1433.770	1429.506	1433.770	1411.384	1418.846
9.5	1407.120	1430.572	1426.308	1430.572	1428.440	1430.572	1426.308	1430.572	1407.120	1414.582
10.0	1403.922	1427.374	1422.044	1426.308	1424.176	1426.308	1422.044	1427.374	1403.922	1410.318
10.5	1399.658	1423.110	1418.846	1422.044	1419.912	1422.044	1418.846	1423.110	1399.658	1406.054
11.0	1395.394	1419.912	1414.582	1417.780	1414.582	1417.780	1414.582	1419.912	1395.394	1401.790
11.5	1391.130	1415.648	1409.252	1412.450	1409.252	1412.450	1409.252	1415.648	1391.130	1397.526
12.0	1386.866	1411.384	1404.988	1407.120	1402.856	1407.120	1404.988	1411.384	1386.866	1392.196
12.5	1381.536	1407.120	1399.658	1401.790	1395.394	1401.790	1399.658	1407.120	1381.536	1387.932
13.0	1377.272	1402.856	1394.328	1395.394	1388.998	1395.394	1394.328	1402.856	1377.272	1382.602
13.5	1371.942	1398.592	1388.998	1388.998	1382.602	1388.998	1388.998	1398.592	1371.942	1377.272
14.0	1366.612	1393.262	1383.668	1382.602	1375.140	1382.602	1383.668	1393.262	1366.612	1371.942
14.5	1361.282	1388.998	1377.272	1375.140	1367.678	1375.140	1377.272	1388.998	1361.282	1365.546
15.0	1355.952	1382.602	1370.876	1368.744	1360.216	1368.744	1370.876	1382.602	1355.952	1360.216
15.5	1350.622	1378.338	1365.546	1362.348	1352.754	1362.348	1365.546	1378.338	1350.622	1353.820
16.0	1344.226	1373.008	1358.084	1353.820	1345.292	1353.820	1358.084	1373.008	1344.226	1348.490
16.5	1338.896	1366.612	1351.688	1345.292	1335.698	1345.292	1351.688	1366.612	1338.896	1341.028
17.0	1332.500	1360.216	1345.292	1337.830	1328.236	1337.830	1345.292	1360.216	1332.500	1334.632
17.5	1326.104	1354.886	1337.830	1329.302	1318.642	1329.302	1337.830	1354.886	1326.104	1328.236
18.0	1319.708	1348.490	1330.368	1320.774	1310.114	1320.774	1330.368	1348.490	1319.708	1320.774
18.5	1313.312	1342.094	1322.906	1311.180	1301.586	1311.180	1322.906	1342.094	1313.312	1314.378
19.0	1306.916	1334.632	1315.444	1302.652	1291.992	1302.652	1315.444	1334.632	1306.916	1306.916
19.5	1300.520	1328.236	1306.916	1294.124	1283.464	1294.124	1306.916	1328.236	1300.520	1299.454
20.0	1293.058	1320.774	1299.454	1284.530	1272.804	1284.530	1299.454	1320.774	1293.058	1290.926
20.5	1285.596	1313.312	1290.926	1274.936	1264.276	1274.936	1290.926	1313.312	1285.596	1283.464
21.0	1278.134	1305.850	1282.398	1265.342	1253.616	1265.342	1282.398	1305.850	1278.134	1274.936
21.5	1270.672	1298.388	1273.870	1256.814	1244.022	1256.814	1273.870	1298.388	1270.672	1267.474
22.0	1263.210	1289.860	1265.342	1247.220	1234.428	1247.220	1265.342	1289.860	1263.210	1258.946
22.5	1254.682	1282.398	1256.814	1236.560	1223.768	1236.560	1256.814	1282.398	1254.682	1250.418
23.0	1247.220	1273.870	1247.220	1226.966	1212.042	1226.966	1247.220	1273.870	1247.220	1241.890
23.5	1238.692	1265.342	1237.626	1216.306	1201.382	1216.306	1237.626	1265.342	1238.692	1233.362
24.0	1230.164	1256.814	1228.032	1206.712	1190.722	1206.712	1228.032	1256.814	1230.164	1223.768
24.5	1222.702	1248.286	1218.438	1196.052	1180.062	1196.052	1218.438	1248.286	1222.702	1215.240
25.0	1213.108	1239.758	1208.844	1185.392	1169.402	1185.392	1208.844	1239.758	1213.108	1205.646
25.5	1204.580	1231.230	1199.250	1174.732	1157.676	1174.732	1199.250	1231.230	1204.580	1197.118
26.0	1196.052	1221.636	1189.656	1164.072	1147.016	1164.072	1189.656	1221.636	1196.052	1187.524
26.5	1186.458	1213.108	1178.996	1152.346	1136.356	1152.346	1178.996	1213.108	1186.458	1177.930

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**CANDELA TABULATION - (Cont.)**

27.0	1177.930	1203.514	1168.336	1141.686	1124.630	1141.686	1168.336	1203.514	1177.930	1168.336
27.5	1167.270	1193.920	1158.742	1129.960	1113.970	1129.960	1158.742	1193.920	1167.270	1158.742
28.0	1158.742	1184.326	1148.082	1118.234	1102.244	1118.234	1148.082	1184.326	1158.742	1148.082
28.5	1149.148	1173.666	1137.422	1107.574	1090.518	1107.574	1137.422	1173.666	1149.148	1138.488
29.0	1138.488	1164.072	1126.762	1095.848	1078.792	1095.848	1126.762	1164.072	1138.488	1127.828
29.5	1128.894	1153.412	1116.102	1084.122	1068.132	1084.122	1116.102	1153.412	1128.894	1117.168
30.0	1118.234	1143.818	1104.376	1072.396	1055.766	1072.396	1104.376	1143.818	1118.234	1107.574
30.5	1108.640	1133.158	1093.716	1061.096	1044.040	1061.096	1093.716	1133.158	1108.640	1096.914
31.0	1097.980	1122.498	1081.990	1049.157	1032.101	1049.157	1081.990	1122.498	1097.980	1086.254
31.5	1088.386	1111.838	1071.330	1036.792	1020.162	1036.792	1071.330	1111.838	1088.386	1075.594
32.0	1077.726	1101.178	1059.178	1025.172	1007.796	1025.172	1059.178	1101.178	1077.726	1064.721
32.5	1067.066	1090.518	1047.558	1013.233	995.857	1013.233	1047.558	1090.518	1067.066	1053.634
33.0	1056.513	1078.792	1035.726	1000.654	983.918	1000.654	1035.726	1078.792	1056.513	1042.655
33.5	1045.853	1068.132	1024.213	988.608	971.446	988.608	1024.213	1068.132	1045.853	1031.355
34.0	1035.299	1057.046	1012.380	976.349	958.654	976.349	1012.380	1057.046	1035.299	1019.736
34.5	1024.959	1045.746	1000.654	964.410	946.395	964.410	1000.654	1045.746	1024.959	1008.649
35.0	1013.873	1034.233	988.289	952.364	934.775	952.364	988.289	1034.233	1013.873	996.817
35.5	1002.893	1022.934	977.096	940.425	922.090	940.425	977.096	1022.934	1002.893	985.304
36.0	991.700	1011.421	965.370	927.740	910.257	927.740	965.370	1011.421	991.700	973.791
36.5	980.827	999.801	953.537	916.440	897.892	916.440	953.537	999.801	980.827	962.172
37.0	969.740	988.502	942.131	903.968	885.953	903.968	942.131	988.502	969.740	950.446
37.5	958.441	977.202	930.511	891.816	874.333	891.816	930.511	977.202	958.441	938.933
38.0	946.715	965.796	919.105	880.303	862.287	880.303	919.105	965.796	946.715	927.313
38.5	935.522	954.177	907.273	868.257	850.135	868.257	907.273	954.177	935.522	915.374
39.0	923.902	942.557	895.653	856.851	838.729	856.851	895.653	942.557	923.902	903.542
39.5	912.603	931.258	884.354	844.698	826.683	844.698	884.354	931.258	912.603	891.922
40.0	900.983	919.745	872.308	833.292	815.597	833.292	872.308	919.745	900.983	880.196
40.5	889.470	908.552	860.475	821.566	803.871	821.566	860.475	908.552	889.470	868.044
41.0	877.851	896.932	848.643	809.840	792.678	809.840	848.643	896.932	877.851	856.318
41.5	866.338	885.739	837.023	798.434	785.642	798.434	837.023	885.739	866.338	844.485
42.0	854.932	874.227	825.191	790.013	774.236	790.013	825.191	874.227	854.932	832.759
42.5	843.419	863.140	813.678	779.459	762.616	779.459	813.678	863.140	843.419	820.713
43.0	832.120	851.414	801.952	767.840	751.423	767.840	801.952	851.414	832.120	808.668
43.5	820.394	839.901	792.464	756.327	740.017	756.327	792.464	839.901	820.394	797.155
44.0	809.414	827.856	782.124	744.814	728.824	744.814	782.124	827.856	809.414	787.241
44.5	798.008	816.876	771.571	733.408	717.311	733.408	771.571	816.876	798.008	777.754
45.0	789.693	805.470	760.058	721.895	705.905	721.895	760.058	805.470	789.693	766.028
45.5	779.566	795.876	748.652	710.702	694.606	710.702	748.652	795.876	779.566	754.195
46.0	768.266	784.469	737.459	699.403	683.626	699.403	737.459	784.469	768.266	742.576
46.5	757.073	774.982	726.266	688.316	672.433	688.316	726.266	774.982	757.073	731.063
47.0	745.774	763.363	715.286	677.230	661.453	677.230	715.286	763.363	745.774	719.550
47.5	734.474	751.850	703.986	666.357	650.473	666.357	703.986	751.850	734.474	708.144
48.0	723.174	740.337	692.900	655.377	639.707	655.377	692.900	740.337	723.174	696.844
48.5	711.875	728.931	681.707	644.504	629.153	644.504	681.707	728.931	711.875	685.651
49.0	700.788	717.525	670.834	633.737	618.813	633.737	670.834	717.525	700.788	674.565
49.5	689.595	706.118	659.961	622.970	608.579	622.970	659.961	706.118	689.595	663.585
50.0	678.402	694.819	649.087	612.417	598.346	612.417	649.087	694.819	678.402	652.605
50.5	667.209	683.413	638.108	601.864	588.539	601.864	638.108	683.413	667.209	641.732
51.0	656.123	672.113	627.128	591.630	578.518	591.630	627.128	672.113	656.123	630.859
51.5	645.037	660.707	616.361	581.503	568.711	581.503	616.361	660.707	645.037	620.092
52.0	633.950	649.620	605.701	571.269	559.010	571.269	605.701	649.620	633.950	609.326
52.5	622.970	638.534	595.041	561.142	549.203	561.142	595.041	638.534	622.970	598.452
53.0	611.991	627.341	584.488	551.122	539.609	551.122	584.488	627.341	611.991	587.792
53.5	600.904	616.041	574.148	541.208	529.909	541.208	574.148	616.041	600.904	577.132
54.0	589.924	604.848	563.701	531.401	520.208	531.401	563.701	604.848	589.924	566.366
54.5	578.945	593.869	553.361	521.594	510.614	521.594	553.361	593.869	578.945	555.599

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**CANDELA TABULATION - (Cont.)**

55.0	568.178	582.782	543.127	511.893	501.127	511.893	543.127	582.782	568.178	545.046
55.5	557.411	571.909	532.893	502.193	491.639	502.193	532.893	571.909	557.411	534.599
56.0	546.432	560.929	522.766	492.599	482.045	492.599	522.766	560.929	546.432	524.046
56.5	535.558	549.949	512.639	483.111	472.664	483.111	512.639	549.949	535.558	513.599
57.0	524.898	539.076	502.726	473.624	463.284	473.624	502.726	539.076	524.898	503.152
57.5	514.132	528.203	492.599	464.136	454.009	464.136	492.599	528.203	514.132	492.705
58.0	503.472	517.436	482.472	454.649	444.735	454.649	482.472	517.436	503.472	482.258
58.5	493.025	506.883	472.558	445.268	435.461	445.268	472.558	506.883	493.025	471.812
59.0	482.578	496.330	462.857	435.994	426.293	435.994	462.857	496.330	482.578	461.578
59.5	472.558	485.776	453.157	426.720	417.126	426.720	453.157	485.776	472.558	451.344
60.0	462.324	475.329	443.456	417.552	407.958	417.552	443.456	475.329	462.324	441.217
60.5	452.304	464.989	433.862	408.491	399.110	408.491	433.862	464.989	452.304	431.304
61.0	442.283	454.649	424.268	399.537	390.263	399.537	424.268	454.649	442.283	421.390
61.5	432.050	444.522	414.781	390.689	381.521	390.689	414.781	444.522	432.050	411.583
62.0	421.816	434.608	405.506	381.841	372.887	381.841	405.506	434.608	421.816	401.669
62.5	411.689	424.694	396.232	373.100	364.359	373.100	396.232	424.694	411.689	391.755
63.0	401.669	414.887	387.171	364.572	356.044	364.572	387.171	414.887	401.669	381.948
63.5	391.755	404.867	377.897	356.044	347.729	356.044	377.897	404.867	391.755	372.247
64.0	381.841	394.740	368.836	347.623	339.521	347.623	368.836	394.740	381.841	362.547
64.5	372.141	384.719	359.882	339.308	331.419	339.308	359.882	384.719	372.141	352.846
65.0	362.547	374.912	350.927	331.100	323.424	331.100	350.927	374.912	362.547	343.252
65.5	352.846	365.212	342.293	322.998	315.429	322.998	342.293	365.212	352.846	333.978
66.0	343.359	355.618	333.658	314.896	307.541	314.896	333.658	355.618	343.359	324.704
66.5	333.978	346.024	324.810	306.795	299.653	306.795	324.810	346.024	333.978	315.429
67.0	324.490	336.643	316.282	298.906	291.764	298.906	316.282	336.643	324.490	306.368
67.5	315.216	327.049	307.648	290.911	283.876	290.911	307.648	327.049	315.216	297.414
68.0	305.942	317.668	299.226	283.130	276.094	283.130	299.226	317.668	305.942	288.353
68.5	296.774	308.500	290.911	275.348	268.206	275.348	290.911	308.500	296.774	279.505
69.0	287.500	299.226	282.597	267.673	260.530	267.673	282.597	299.226	287.500	270.657
69.5	278.439	290.272	274.388	259.997	252.962	259.997	274.388	290.272	278.439	261.916
70.0	269.485	281.211	266.074	252.429	245.820	252.429	266.074	281.211	269.485	253.282
70.5	260.530	272.363	257.972	245.073	238.571	245.073	257.972	272.363	260.530	244.647
71.0	251.576	263.409	249.977	237.611	231.429	237.611	249.977	263.409	251.576	236.012
71.5	242.835	254.667	242.089	230.469	224.286	230.469	242.089	254.667	242.835	227.591
72.0	233.987	246.033	234.200	223.220	217.464	223.220	234.200	246.033	233.987	219.063
72.5	225.246	237.505	226.418	216.185	210.642	216.185	226.418	237.505	225.246	210.748
73.0	216.505	229.083	218.743	209.149	203.713	209.149	218.743	229.083	216.505	202.540
73.5	207.870	220.662	210.961	202.114	197.210	202.114	210.961	220.662	207.870	194.332
74.0	199.235	212.241	203.393	195.291	190.707	195.291	203.393	212.241	199.235	186.230
74.5	190.814	203.926	195.931	188.362	184.311	188.362	195.931	203.926	190.814	178.235
75.0	182.606	195.718	188.575	181.860	177.915	181.860	188.575	195.718	182.606	170.347
75.5	174.398	187.616	181.327	175.144	171.626	175.144	181.327	187.616	174.398	162.565
76.0	166.403	179.621	174.078	168.535	165.550	168.535	174.078	179.621	166.403	155.103
76.5	158.408	171.733	167.042	162.139	159.580	162.139	167.042	171.733	158.408	147.641
77.0	150.732	163.844	160.007	155.743	153.717	155.743	160.007	163.844	150.732	140.392
77.5	142.951	156.062	153.184	149.347	147.641	149.347	153.184	156.062	142.951	133.250
78.0	135.489	148.387	146.362	143.164	141.671	143.164	146.362	148.387	135.489	126.214
78.5	128.027	140.925	139.646	136.981	135.808	136.981	139.646	140.925	128.027	119.392
79.0	120.778	133.676	133.143	131.011	129.945	131.011	133.143	133.676	120.778	112.676
79.5	113.636	126.534	126.641	125.042	124.189	125.042	126.641	126.534	113.636	106.067
80.0	106.707	119.499	120.245	119.179	118.539	119.179	120.245	119.499	106.707	99.671
80.5	99.884	112.676	113.955	113.316	112.889	113.316	113.955	112.676	99.884	93.382
81.0	93.382	105.960	107.879	107.666	107.453	107.666	107.879	105.960	93.382	87.305
81.5	86.879	99.351	101.803	102.123	101.910	102.123	101.803	99.351	86.879	81.442
82.0	80.590	93.062	95.940	96.580	96.686	96.580	95.940	93.062	80.590	75.686
82.5	74.620	86.879	90.077	91.036	91.356	91.036	90.077	86.879	74.620	70.143

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_IES

## CANDELA TABULATION - (Cont.)

83.0	68.650	81.016	84.427	85.706	86.239	85.706	84.427	81.016	68.650	64.919
83.5	62.894	75.153	78.884	80.483	81.123	80.483	78.884	75.153	62.894	59.696
84.0	57.244	69.503	73.447	75.366	76.112	75.366	73.447	69.503	57.244	54.792
84.5	51.914	63.853	68.224	70.356	71.209	70.356	68.224	63.853	51.914	49.889
85.0	46.691	58.523	63.001	65.452	66.412	65.452	63.001	58.523	46.691	45.092
85.5	41.681	53.193	57.990	60.655	61.615	60.655	57.990	53.193	41.681	40.401
86.0	36.777	47.970	52.980	55.965	57.031	55.965	52.980	47.970	36.777	35.924
86.5	32.087	42.960	48.183	51.275	52.554	51.275	48.183	42.960	32.087	31.554
87.0	27.503	38.163	43.493	46.797	48.077	46.797	43.493	38.163	27.503	27.290
87.5	23.132	33.366	38.909	42.320	43.706	42.320	38.909	33.366	23.132	23.132
88.0	18.868	28.782	34.432	37.950	39.442	37.950	34.432	28.782	18.868	18.975
88.5	14.604	24.198	29.955	33.686	35.391	33.686	29.955	24.198	14.604	14.498
89.0	10.340	19.508	25.584	29.422	31.340	29.422	25.584	19.508	10.340	10.127
89.5	6.716	14.498	20.787	25.371	27.396	25.371	20.787	14.498	6.716	7.569
90.0	5.863	10.553	14.284	18.229	20.361	18.229	14.284	10.553	5.863	8.315
90.5	7.142	8.954	8.954	7.569	7.355	7.569	8.954	8.954	7.142	11.726
91.0	9.701	9.914	9.381	7.782	7.355	7.782	9.381	9.914	9.701	13.538
91.5	12.046	11.726	11.300	8.954	8.421	8.954	11.300	11.726	12.046	15.564
92.0	14.071	13.432	13.538	11.619	11.300	11.619	13.538	13.432	14.071	18.442
92.5	16.523	15.244	15.244	13.858	13.645	13.858	15.244	15.244	16.523	22.279
93.0	19.401	18.229	16.630	15.564	15.244	15.564	16.630	18.229	19.401	26.010
93.5	22.812	21.960	18.015	17.163	16.736	17.163	18.015	21.960	22.812	29.955
94.0	26.650	25.477	19.721	18.762	18.122	18.762	19.721	25.477	26.650	34.325
94.5	30.914	28.995	22.386	20.147	19.508	20.147	22.386	28.995	30.914	39.442
95.0	35.498	32.939	27.609	22.066	21.000	22.066	27.609	32.939	35.498	45.625
95.5	40.295	37.523	34.325	24.944	23.132	24.944	34.325	37.523	40.295	52.021
96.0	45.412	43.173	40.082	28.675	26.437	28.675	40.082	43.173	45.412	59.270
96.5	50.955	50.742	45.625	35.178	30.488	35.178	45.625	50.742	50.955	67.371
97.0	56.711	58.950	50.848	44.772	37.523	44.772	50.848	58.950	56.711	74.407
97.5	62.787	65.879	56.178	51.808	48.077	51.808	56.178	65.879	62.787	81.549
98.0	69.077	73.341	61.721	58.310	55.539	58.310	61.721	73.341	69.077	89.118
98.5	75.473	80.909	67.691	64.280	62.254	64.280	67.691	80.909	75.473	96.793
99.0	82.082	88.052	73.980	70.143	68.544	70.143	73.980	88.052	82.082	104.894
99.5	88.904	95.407	80.696	76.326	74.727	76.326	80.696	95.407	88.904	113.209
100.0	95.940	102.976	87.838	82.935	81.016	82.935	87.838	102.976	95.940	121.737
100.5	102.976	110.544	95.514	89.544	87.732	89.544	95.514	110.544	102.976	130.478
101.0	110.118	118.539	103.935	96.473	94.554	96.473	103.935	118.539	110.118	139.433
101.5	117.367	126.747	115.981	103.615	101.590	103.615	115.981	126.747	117.367	148.494
102.0	124.829	135.062	128.986	110.864	108.839	110.864	128.986	135.062	124.829	157.768
102.5	132.397	143.590	140.605	118.433	116.087	118.433	140.605	143.590	132.397	167.255
103.0	139.966	152.118	152.864	126.214	123.976	126.214	152.864	152.118	139.966	177.063
103.5	147.641	160.753	164.697	134.529	131.544	134.529	164.697	160.753	147.641	187.296
104.0	155.316	169.387	176.103	143.057	139.753	143.057	176.103	169.387	155.316	197.317
104.5	163.098	179.088	187.509	152.971	148.174	152.971	187.509	179.088	163.098	207.444
105.0	170.880	189.748	198.489	166.936	156.915	166.936	198.489	189.748	170.880	217.357
105.5	178.662	200.621	209.149	179.195	166.829	179.195	209.149	200.621	178.662	227.911
106.0	186.550	211.494	219.383	190.707	181.113	190.707	219.383	211.494	186.550	239.210
106.5	194.332	221.302	229.083	203.180	194.012	203.180	229.083	221.302	194.332	250.084
107.0	202.327	230.469	238.677	216.398	204.672	216.398	238.677	230.469	202.327	260.317
107.5	210.322	239.317	248.165	230.363	215.972	230.363	248.165	239.317	210.322	270.231
108.0	218.317	247.845	257.332	244.540	227.591	244.540	257.332	247.845	218.317	280.038
108.5	226.205	256.373	266.287	259.145	240.170	259.145	266.287	256.373	226.205	289.739
109.0	234.094	265.434	275.987	273.216	255.094	273.216	275.987	265.434	234.094	299.333
109.5	242.089	274.602	285.688	286.434	270.764	286.434	285.688	274.602	242.089	308.927
110.0	250.084	283.663	295.495	298.693	286.114	298.693	295.495	283.663	250.084	318.521
110.5	257.972	292.724	305.196	309.886	300.932	309.886	305.196	292.724	257.972	328.435

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_IES

## CANDELA TABULATION - (Cont.)

111.0	265.967	301.571	314.896	321.079	315.216	321.079	314.896	301.571	265.967	338.348
111.5	274.069	310.206	324.597	331.739	328.541	331.739	324.597	310.206	274.069	348.369
112.0	282.064	318.414	334.084	341.973	340.374	341.973	334.084	318.414	282.064	358.496
112.5	290.165	326.516	343.785	351.993	351.140	351.993	343.785	326.516	290.165	368.623
113.0	298.054	334.724	353.379	361.481	362.120	361.481	353.379	334.724	298.054	378.856
113.5	306.049	342.719	362.760	370.542	372.887	370.542	362.760	342.719	306.049	389.197
114.0	314.150	350.607	372.141	380.455	382.801	380.455	372.141	350.607	314.150	399.430
114.5	322.252	358.176	381.735	390.689	392.075	390.689	381.735	358.176	322.252	409.877
115.0	330.140	365.745	392.181	401.029	401.349	401.029	392.181	365.745	330.140	420.430
115.5	338.135	373.207	403.374	411.156	410.730	411.156	403.374	373.207	338.135	430.984
116.0	346.130	380.882	415.100	421.390	420.857	421.390	415.100	380.882	346.130	441.431
116.5	354.232	388.770	427.359	431.304	431.090	431.304	427.359	388.770	354.232	451.877
117.0	362.120	396.765	439.299	441.004	441.324	441.004	439.299	396.765	362.120	462.324
117.5	370.009	404.973	451.344	450.492	451.344	450.492	451.344	404.973	370.009	472.771
118.0	378.004	413.075	462.644	460.086	461.045	460.086	462.644	413.075	378.004	483.538
118.5	385.892	421.177	472.451	469.466	470.959	469.466	472.451	421.177	385.892	494.198
119.0	393.994	429.172	481.406	478.847	480.446	478.847	481.406	429.172	393.994	504.858
119.5	401.989	437.060	489.934	487.908	490.040	487.908	489.934	437.060	401.989	515.518
120.0	409.877	444.948	498.355	496.969	499.208	496.969	498.355	444.948	409.877	526.071
120.5	417.765	452.730	506.350	506.030	508.269	506.030	506.350	452.730	417.765	536.838
121.0	425.760	460.405	514.238	515.624	517.223	515.624	514.238	460.405	425.760	547.391
121.5	433.649	468.081	522.127	526.071	526.284	526.071	522.127	468.081	433.649	558.051
122.0	441.644	475.543	530.015	536.944	535.345	536.944	530.015	475.543	441.644	568.604
122.5	449.639	483.005	538.010	548.564	544.726	548.564	538.010	483.005	449.639	579.158
123.0	457.634	490.253	546.005	560.503	554.427	560.503	546.005	490.253	457.634	589.711
123.5	465.735	497.502	553.787	572.016	565.300	572.016	553.787	497.502	465.735	600.371
124.0	473.837	504.644	561.569	583.422	576.386	583.422	561.569	504.644	473.837	610.925
124.5	481.832	511.680	569.351	594.402	588.219	594.402	569.351	511.680	481.832	621.478
125.0	489.827	518.716	576.813	604.209	600.478	604.209	576.813	518.716	489.827	632.031
125.5	497.929	525.751	584.061	612.417	612.310	612.417	584.061	525.751	497.929	642.372
126.0	506.030	532.467	591.097	620.199	623.717	620.199	591.097	532.467	506.030	652.818
126.5	514.132	539.183	597.919	628.087	634.483	628.087	597.919	539.183	514.132	663.052
127.0	522.233	545.792	604.422	635.549	643.971	635.549	604.422	545.792	522.233	673.392
127.5	530.228	552.295	610.818	643.011	651.859	643.011	610.818	552.295	530.228	683.732
128.0	538.437	558.691	616.894	650.153	659.001	650.153	616.894	558.691	538.437	693.859
128.5	546.645	564.980	622.757	657.189	665.397	657.189	622.757	564.980	546.645	703.986
129.0	554.746	571.269	628.300	664.011	671.580	664.011	628.300	571.269	554.746	714.113
129.5	562.955	577.346	633.524	670.514	677.443	670.514	633.524	577.346	562.955	724.027
130.0	571.163	583.315	638.641	676.590	683.306	676.590	638.641	583.315	571.163	733.941
130.5	579.371	589.072	643.757	682.347	689.169	682.347	643.757	589.072	579.371	743.748
131.0	587.579	594.828	648.661	687.783	695.032	687.783	648.661	594.828	587.579	753.662
131.5	595.787	600.584	653.458	693.007	701.002	693.007	653.458	600.584	595.787	763.363
132.0	603.996	606.234	658.148	698.017	706.971	698.017	658.148	606.234	603.996	773.383
132.5	612.310	611.671	663.052	703.027	713.047	703.027	663.052	611.671	612.310	783.084
133.0	620.519	617.001	668.062	708.144	719.017	708.144	668.062	617.001	620.519	792.891
133.5	628.727	622.331	673.499	713.154	724.987	713.154	673.499	622.331	628.727	802.485
134.0	636.935	627.554	678.829	718.058	730.956	718.058	678.829	627.554	636.935	812.185
134.5	645.250	632.671	684.052	722.748	736.713	722.748	684.052	632.671	645.250	821.460
135.0	653.565	637.788	689.169	727.438	742.043	727.438	689.169	637.788	653.565	830.627
135.5	661.879	642.798	694.179	731.596	746.946	731.596	694.179	642.798	661.879	839.901
136.0	670.088	647.915	698.976	735.860	751.530	735.860	698.976	647.915	670.088	849.495
136.5	678.402	653.032	703.560	739.378	755.261	739.378	703.560	653.032	678.402	858.023
137.0	686.717	657.935	708.144	742.789	758.885	742.789	708.144	657.935	686.717	867.937
137.5	694.925	662.945	712.621	745.667	762.297	745.667	712.621	662.945	694.925	876.892
138.0	703.240	668.169	717.098	748.439	765.388	748.439	717.098	668.169	703.240	885.739
138.5	711.662	673.286	721.042	751.210	767.733	751.210	721.042	673.286	711.662	894.267

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_IES**

**CANDELA TABULATION - (Cont.)**

139.0	720.083	678.402	724.880	753.982	770.078	753.982	724.880	678.402	720.083	903.009
139.5	728.398	683.519	728.611	756.753	772.424	756.753	728.611	683.519	728.398	911.750
140.0	736.713	688.529	732.235	759.632	774.556	759.632	732.235	688.529	736.713	920.704
140.5	745.134	693.540	735.540	762.723	776.581	762.723	735.540	693.540	745.134	928.593
141.0	753.449	698.550	738.845	766.028	778.926	766.028	738.845	698.550	753.449	936.801
141.5	761.764	703.560	741.829	769.332	781.378	769.332	741.829	703.560	761.764	944.796
142.0	770.078	708.464	744.708	772.637	783.723	772.637	744.708	708.464	770.078	953.111
142.5	778.073	713.367	747.373	775.728	786.068	775.728	747.373	713.367	778.073	960.679
143.0	786.175	718.377	749.931	778.713	788.414	778.713	749.931	718.377	786.175	968.568
143.5	794.170	723.388	752.276	781.485	791.079	781.485	752.276	723.388	794.170	975.816
144.0	801.739	728.504	754.408	784.150	793.530	784.150	754.408	728.504	801.739	982.745
144.5	810.053	733.515	756.540	786.601	795.876	786.601	756.540	733.515	810.053	989.674
145.0	817.942	738.631	758.459	788.947	798.221	788.947	758.459	738.631	817.942	996.817
145.5	825.510	743.748	760.271	791.079	800.246	791.079	760.271	743.748	825.510	1003.319
146.0	833.612	748.865	761.977	792.997	802.272	792.997	761.977	748.865	833.612	1010.035
146.5	841.074	753.982	763.682	794.916	803.977	794.916	763.682	753.982	841.074	1016.324
147.0	848.536	759.099	765.388	796.728	805.683	796.728	765.388	759.099	848.536	1023.253
147.5	855.891	764.429	767.094	798.221	806.855	798.221	767.094	764.429	855.891	1029.969
148.0	864.206	769.865	769.012	799.393	807.282	799.393	769.012	769.865	864.206	1035.299
148.5	871.242	775.408	771.144	800.459	809.201	800.459	771.144	775.408	871.242	1041.589
149.0	878.810	780.845	773.276	801.206	809.840	801.206	773.276	780.845	878.810	1047.558
149.5	886.059	786.495	775.622	802.485	809.840	802.485	775.622	786.495	886.059	1053.634
150.0	893.521	792.145	778.287	803.444	810.800	803.444	778.287	792.145	893.521	1059.924
150.5	900.983	797.901	781.165	804.084	811.652	804.084	781.165	797.901	900.983	1065.254
151.0	908.658	803.871	784.256	805.150	812.612	805.150	784.256	803.871	908.658	1070.264
151.5	915.801	809.947	787.454	806.216	812.825	806.216	787.454	809.947	915.801	1075.594
152.0	923.689	816.130	790.865	807.708	813.358	807.708	790.865	816.130	923.689	1080.924
152.5	930.831	822.419	794.490	808.561	813.678	808.561	794.490	822.419	930.831	1086.254
153.0	937.760	828.069	798.114	809.627	814.637	809.627	798.114	828.069	937.760	1091.584
153.5	944.476	834.678	802.272	811.226	815.490	811.226	802.272	834.678	944.476	1095.848
154.0	950.872	841.394	805.896	812.932	816.449	812.932	805.896	841.394	950.872	1100.112
154.5	957.481	847.470	810.267	814.850	817.942	814.850	810.267	847.470	957.481	1104.376
155.0	964.197	854.079	814.637	816.876	820.180	816.876	814.637	854.079	964.197	1109.706
155.5	970.593	860.688	818.901	819.008	821.673	819.008	818.901	860.688	970.593	1112.904
156.0	977.096	867.404	823.911	821.673	824.018	821.673	823.911	867.404	977.096	1117.168
156.5	983.811	874.120	828.495	824.658	826.150	824.658	828.495	874.120	983.811	1120.366
157.0	989.994	880.516	832.972	827.856	828.602	827.856	832.972	880.516	989.994	1123.564
157.5	995.857	887.232	838.196	831.480	831.800	831.480	838.196	887.232	995.857	1125.696
158.0	1001.827	894.267	843.419	834.891	834.145	834.891	843.419	894.267	1001.827	1129.960
158.5	1008.010	900.770	849.602	838.516	837.343	838.516	849.602	900.770	1008.010	1132.092
159.0	1013.340	908.125	854.506	842.566	841.287	842.566	908.125	1013.340	1135.290	
159.5	1019.522	914.841	859.836	846.937	844.379	846.937	859.836	914.841	1019.522	1137.422
160.0	1025.172	921.344	865.699	851.521	847.790	851.521	865.699	921.344	1025.172	1140.620
160.5	1030.609	928.379	872.201	856.105	851.308	856.105	872.201	928.379	1030.609	1143.818
161.0	1035.939	935.628	878.171	861.221	855.572	861.221	878.171	935.628	1035.939	1145.950
161.5	1041.375	942.131	884.354	865.805	859.622	865.805	884.354	942.131	1041.375	1148.082
162.0	1046.492	948.847	891.176	871.455	863.886	871.455	891.176	948.847	1046.492	1150.214
162.5	1051.289	955.669	897.252	876.998	868.683	876.998	897.252	955.669	1051.289	1152.346
163.0	1056.726	962.385	903.755	882.008	873.800	882.008	903.755	962.385	1056.726	1154.478
163.5	1061.310	969.314	910.471	888.191	879.343	888.191	910.471	969.314	1061.310	1156.610
164.0	1065.787	976.563	917.080	894.054	884.780	894.054	917.080	976.563	1065.787	1158.742
164.5	1070.264	982.959	923.689	900.663	889.897	900.663	923.689	982.959	1070.264	1159.808
165.0	1074.528	989.888	930.298	906.846	896.399	906.846	930.298	989.888	1074.528	1161.940
165.5	1078.792	995.964	937.014	913.242	902.582	913.242	937.014	995.964	1078.792	1163.006
166.0	1084.122	1002.466	944.156	919.425	909.618	919.425	944.156	1002.466	1084.122	1164.072
166.5	1087.320	1009.609	950.872	926.354	916.014	926.354	950.872	1009.609	1087.320	1165.138

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_IES

## CANDELA TABULATION - (Cont.)

167.0	1091.584	1015.791	957.375	933.816	923.689	933.816	957.375	1015.791	1091.584	1166.204
167.5	1095.848	1022.294	964.943	940.532	930.618	940.532	964.943	1022.294	1095.848	1167.270
168.0	1100.112	1028.903	971.766	947.248	937.227	947.248	971.766	1028.903	1100.112	1167.270
168.5	1103.310	1035.406	978.375	954.923	945.862	954.923	978.375	1035.406	1103.310	1168.336
169.0	1106.508	1040.949	985.517	962.172	953.111	962.172	985.517	1040.949	1106.508	1168.336
169.5	1108.640	1046.386	992.766	968.994	961.532	968.994	992.766	1046.386	1108.640	1168.336
170.0	1112.904	1052.249	1000.121	976.669	968.994	976.669	1000.121	1052.249	1112.904	1168.336
170.5	1115.036	1058.218	1007.157	983.918	977.735	983.918	1007.157	1058.218	1115.036	1168.336
171.0	1118.234	1063.335	1013.979	991.806	985.837	991.806	1013.979	1063.335	1118.234	1167.270
171.5	1120.366	1069.198	1021.121	998.842	993.725	998.842	1021.121	1069.198	1120.366	1167.270
172.0	1123.564	1074.528	1027.837	1006.944	1002.573	1006.944	1027.837	1074.528	1123.564	1167.270
172.5	1125.696	1079.858	1034.766	1015.258	1010.248	1015.258	1034.766	1079.858	1125.696	1166.204
173.0	1128.894	1085.188	1042.015	1022.827	1019.736	1022.827	1042.015	1085.188	1128.894	1165.138
173.5	1131.026	1089.452	1048.837	1030.822	1027.837	1030.822	1048.837	1089.452	1131.026	1165.138
174.0	1132.092	1094.782	1055.873	1039.563	1035.406	1039.563	1055.873	1094.782	1132.092	1163.006
174.5	1134.224	1100.112	1063.122	1047.878	1044.467	1047.878	1063.122	1100.112	1134.224	1161.940
175.0	1136.356	1103.310	1069.198	1055.233	1053.848	1055.233	1069.198	1103.310	1136.356	1160.874
175.5	1137.422	1108.640	1076.660	1063.975	1061.949	1063.975	1076.660	1108.640	1137.422	1158.742
176.0	1138.488	1111.838	1083.056	1072.396	1070.264	1072.396	1083.056	1111.838	1138.488	1156.610
176.5	1139.554	1116.102	1089.452	1080.924	1078.792	1080.924	1089.452	1116.102	1139.554	1156.610
177.0	1140.620	1121.432	1095.848	1088.386	1088.386	1088.386	1095.848	1121.432	1140.620	1153.412
177.5	1141.686	1123.564	1102.244	1096.914	1095.848	1096.914	1102.244	1123.564	1141.686	1151.280
178.0	1142.752	1126.762	1108.640	1104.376	1105.442	1104.376	1108.640	1126.762	1142.752	1149.148
178.5	1142.752	1131.026	1113.970	1112.904	1112.904	1113.970	1131.026	1142.752	1147.016	
179.0	1143.818	1134.224	1120.366	1119.300	1121.432	1119.300	1120.366	1134.224	1143.818	1144.884
179.5	1143.818	1136.356	1125.696	1127.828	1129.960	1127.828	1125.696	1136.356	1143.818	1142.752
180.0	1136.356	1136.356	1136.356	1136.356	1136.356	1136.356	1136.356	1136.356	1136.356	1136.356

## Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1452.958	1452.958	1452.958	1452.958	1452.958	1452.958	1452.958
0.5	1449.760	1455.090	1456.156	1455.090	1449.760	1456.156	1442.298
1.0	1448.694	1454.024	1455.090	1454.024	1448.694	1456.156	1441.232
1.5	1447.628	1452.958	1455.090	1452.958	1447.628	1455.090	1441.232
2.0	1446.562	1451.892	1454.024	1451.892	1446.562	1454.024	1440.166
2.5	1445.496	1449.760	1452.958	1449.760	1445.496	1451.892	1440.166
3.0	1443.364	1448.694	1451.892	1448.694	1443.364	1450.826	1439.100
3.5	1442.298	1446.562	1449.760	1446.562	1442.298	1448.694	1438.034
4.0	1439.100	1444.430	1447.628	1444.430	1439.100	1447.628	1435.902
4.5	1436.968	1441.232	1444.430	1441.232	1436.968	1445.496	1433.770
5.0	1434.836	1439.100	1442.298	1439.100	1434.836	1443.364	1432.704
5.5	1431.638	1435.902	1439.100	1435.902	1431.638	1440.166	1430.572
6.0	1428.440	1431.638	1434.836	1431.638	1428.440	1438.034	1428.440
6.5	1425.242	1428.440	1431.638	1428.440	1425.242	1434.836	1426.308
7.0	1420.978	1424.176	1426.308	1424.176	1420.978	1431.638	1423.110
7.5	1417.780	1419.912	1422.044	1419.912	1417.780	1428.440	1420.978
8.0	1413.516	1414.582	1416.714	1414.582	1413.516	1425.242	1417.780
8.5	1409.252	1410.318	1411.384	1410.318	1409.252	1422.044	1414.582
9.0	1404.988	1404.988	1404.988	1404.988	1404.988	1418.846	1411.384
9.5	1400.724	1398.592	1398.592	1398.592	1400.724	1414.582	1407.120
10.0	1396.460	1393.262	1392.196	1393.262	1396.460	1410.318	1403.922
10.5	1391.130	1386.866	1384.734	1386.866	1391.130	1406.054	1399.658
11.0	1385.800	1380.470	1378.338	1380.470	1385.800	1401.790	1395.394
11.5	1380.470	1374.074	1370.876	1374.074	1380.470	1397.526	1391.130
12.0	1374.074	1367.678	1362.348	1367.678	1374.074	1392.196	1386.866



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES**

**CANDELA TABULATION - (Cont.)**

12.5	1367.678	1360.216	1354.886	1360.216	1367.678	1387.932	1381.536
13.0	1361.282	1352.754	1347.424	1352.754	1361.282	1382.602	1377.272
13.5	1354.886	1345.292	1338.896	1345.292	1354.886	1377.272	1371.942
14.0	1348.490	1337.830	1330.368	1337.830	1348.490	1371.942	1366.612
14.5	1342.094	1329.302	1321.840	1329.302	1342.094	1365.546	1361.282
15.0	1334.632	1321.840	1312.246	1321.840	1334.632	1360.216	1355.952
15.5	1327.170	1312.246	1303.718	1312.246	1327.170	1353.820	1350.622
16.0	1319.708	1304.784	1295.190	1304.784	1319.708	1348.490	1344.226
16.5	1312.246	1295.190	1285.596	1295.190	1312.246	1341.028	1338.896
17.0	1304.784	1286.662	1276.002	1286.662	1304.784	1334.632	1332.500
17.5	1295.190	1277.068	1266.408	1277.068	1295.190	1328.236	1326.104
18.0	1287.728	1268.540	1256.814	1268.540	1287.728	1320.774	1319.708
18.5	1279.200	1257.880	1246.154	1257.880	1279.200	1314.378	1313.312
19.0	1270.672	1248.286	1235.494	1248.286	1270.672	1306.916	1306.916
19.5	1262.144	1238.692	1225.900	1238.692	1262.144	1299.454	1300.520
20.0	1252.550	1228.032	1215.240	1228.032	1252.550	1290.926	1293.058
20.5	1242.956	1218.438	1204.580	1218.438	1242.956	1283.464	1285.596
21.0	1234.428	1207.778	1193.920	1207.778	1234.428	1274.936	1278.134
21.5	1224.834	1197.118	1183.260	1197.118	1224.834	1267.474	1270.672
22.0	1215.240	1187.524	1171.534	1187.524	1215.240	1258.946	1263.210
22.5	1205.646	1175.798	1159.808	1175.798	1205.646	1250.418	1254.682
23.0	1196.052	1165.138	1149.148	1165.138	1196.052	1241.890	1247.220
23.5	1186.458	1154.478	1138.488	1154.478	1186.458	1233.362	1238.692
24.0	1175.798	1143.818	1126.762	1143.818	1175.798	1223.768	1230.164
24.5	1167.270	1133.158	1116.102	1133.158	1167.270	1215.240	1222.702
25.0	1156.610	1122.498	1105.442	1122.498	1156.610	1205.646	1213.108
25.5	1147.016	1111.838	1093.716	1111.838	1147.016	1197.118	1204.580
26.0	1136.356	1101.178	1081.990	1101.178	1136.356	1187.524	1196.052
26.5	1126.762	1090.518	1071.330	1090.518	1126.762	1177.930	1186.458
27.0	1116.102	1079.858	1060.137	1079.858	1116.102	1168.336	1177.930
27.5	1106.508	1068.132	1048.944	1068.132	1106.508	1158.742	1167.270
28.0	1094.782	1057.792	1037.111	1057.792	1094.782	1148.082	1158.742
28.5	1085.188	1046.279	1026.345	1046.279	1085.188	1138.488	1149.148
29.0	1073.462	1035.406	1014.832	1035.406	1073.462	1127.828	1138.488
29.5	1062.695	1023.786	1003.426	1023.786	1062.695	1117.168	1128.894
30.0	1051.716	1012.380	992.339	1012.380	1051.716	1107.574	1118.234
30.5	1040.416	1001.187	980.933	1001.187	1040.416	1096.914	1108.640
31.0	1029.116	989.674	969.634	989.674	1029.116	1086.254	1097.980
31.5	1017.710	977.522	958.014	977.522	1017.710	1075.594	1088.386
32.0	1006.304	965.583	946.288	965.583	1006.304	1064.721	1077.726
32.5	994.685	953.857	934.775	953.857	994.685	1053.634	1067.066
33.0	983.172	942.024	923.049	942.024	983.172	1042.655	1056.513
33.5	971.552	930.192	911.430	930.192	971.552	1031.355	1045.853
34.0	960.359	917.719	899.704	917.719	960.359	1019.736	1035.299
34.5	948.740	905.460	888.191	905.460	948.740	1008.649	1024.959
35.0	937.334	893.201	875.719	893.201	937.334	996.817	1013.873
35.5	925.821	881.262	863.673	881.262	925.821	985.304	1002.893
36.0	914.308	868.683	850.668	868.683	914.308	973.791	991.700
36.5	902.476	857.277	839.049	857.277	902.476	962.172	980.827
37.0	890.750	844.698	827.003	844.698	890.750	950.446	969.740
37.5	878.704	832.759	814.424	832.759	878.704	938.933	958.441
38.0	866.871	820.394	802.698	820.394	866.871	927.313	946.715
38.5	855.145	808.348	789.799	808.348	855.145	915.374	935.522
39.0	842.460	796.835	781.698	796.835	842.460	903.542	923.902
39.5	830.201	786.175	769.439	786.175	830.201	891.922	912.603
40.0	818.475	776.155	757.180	776.155	818.475	880.196	900.983

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES

## CANDELA TABULATION - (Cont.)

40.5	806.749	764.002	745.027	764.002	806.749	868.044	889.470
41.0	794.596	751.956	733.088	751.956	794.596	856.318	877.851
41.5	784.363	739.911	721.362	739.911	784.363	844.485	866.338
42.0	774.662	728.185	709.849	728.185	774.662	832.759	854.932
42.5	762.936	716.672	698.443	716.672	762.936	820.713	843.419
43.0	751.423	705.372	687.463	705.372	751.423	808.668	832.120
43.5	739.911	694.286	676.590	694.286	739.911	797.155	820.394
44.0	728.504	683.306	665.824	683.306	728.504	787.241	809.414
44.5	717.205	672.433	655.377	672.433	717.205	777.754	798.008
45.0	706.118	661.560	645.250	661.560	706.118	766.028	789.693
45.5	695.032	651.006	634.910	651.006	695.032	754.195	779.566
46.0	684.159	640.453	624.783	640.453	684.159	742.576	768.266
46.5	673.392	629.899	614.656	629.899	673.392	731.063	757.073
47.0	662.519	619.453	604.742	619.453	662.519	719.550	745.774
47.5	651.859	609.006	594.721	609.006	651.859	708.144	734.474
48.0	640.986	598.666	584.381	598.666	640.986	696.844	723.174
48.5	630.326	588.325	574.361	588.325	630.326	685.651	711.875
49.0	619.879	578.092	564.234	578.092	619.879	674.565	700.788
49.5	609.219	567.965	554.320	567.965	609.219	663.585	689.595
50.0	598.666	557.944	544.300	557.944	598.666	652.605	678.402
50.5	588.219	547.924	534.492	547.924	588.219	641.732	667.209
51.0	577.879	538.010	524.579	538.010	577.879	630.859	656.123
51.5	567.538	528.203	514.558	528.203	567.538	620.092	645.037
52.0	557.305	518.502	504.858	518.502	557.305	609.326	633.950
52.5	547.178	508.908	495.264	508.908	547.178	598.452	622.970
53.0	536.944	499.528	485.776	499.528	536.944	587.792	611.991
53.5	527.030	490.040	476.076	490.040	527.030	577.132	600.904
54.0	517.010	480.553	466.588	480.553	517.010	566.366	589.924
54.5	506.990	470.959	456.994	470.959	506.990	555.599	578.945
55.0	497.076	461.578	447.613	461.578	497.076	545.046	568.178
55.5	487.162	452.197	438.339	452.197	487.162	534.599	557.411
56.0	477.248	442.816	429.065	442.816	477.248	524.046	546.432
56.5	467.441	433.542	420.004	433.542	467.441	513.599	535.558
57.0	457.634	424.481	411.050	424.481	457.634	503.152	524.898
57.5	447.827	415.314	402.202	415.314	447.827	492.705	514.132
58.0	438.126	406.039	393.247	406.039	438.126	482.258	503.472
58.5	428.532	397.085	384.719	397.085	428.532	471.812	493.025
59.0	419.045	388.237	375.872	388.237	419.045	461.578	482.578
59.5	409.664	379.389	367.237	379.389	409.664	451.344	472.558
60.0	400.283	370.648	359.029	370.648	400.283	441.217	462.324
60.5	391.009	362.014	350.607	362.014	391.009	431.304	452.304
61.0	381.841	353.486	342.399	353.486	381.841	421.390	442.283
61.5	372.674	345.064	334.298	345.064	372.674	411.583	432.050
62.0	363.719	336.749	326.303	336.749	363.719	401.669	421.816
62.5	354.871	328.648	318.414	328.648	354.871	391.755	411.689
63.0	345.917	320.653	310.632	320.653	345.917	381.948	401.669
63.5	337.069	312.658	302.957	312.658	337.069	372.247	391.755
64.0	328.435	304.769	295.282	304.769	328.435	362.547	381.841
64.5	319.800	296.881	287.713	296.881	319.800	352.846	372.141
65.0	311.379	289.099	280.251	289.099	311.379	343.252	362.547
65.5	302.957	281.424	272.576	281.424	302.957	333.978	352.846
66.0	294.642	273.749	265.221	273.749	294.642	324.704	343.359
66.5	286.434	266.180	257.865	266.180	286.434	315.429	333.978
67.0	278.226	258.825	250.617	258.825	278.226	306.368	324.490
67.5	270.231	251.363	243.155	251.363	270.231	297.414	315.216
68.0	261.916	243.794	235.693	243.794	261.916	288.353	305.942

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES

## CANDELA TABULATION - (Cont.)

68.5	253.921	236.439	228.124	236.439	253.921	279.505	296.774
69.0	246.139	229.190	220.982	229.190	246.139	270.657	287.500
69.5	238.251	222.048	214.053	222.048	238.251	261.916	278.439
70.0	230.576	215.012	207.017	215.012	230.576	253.282	269.485
70.5	222.794	207.870	200.195	207.870	222.794	244.647	260.530
71.0	215.119	200.941	193.053	200.941	215.119	236.012	251.576
71.5	207.444	194.225	185.910	194.225	207.444	227.591	242.835
72.0	199.875	187.616	179.301	187.616	199.875	219.063	233.987
72.5	192.626	181.113	172.905	181.113	192.626	210.748	225.246
73.0	185.484	174.824	166.616	174.824	185.484	202.540	216.505
73.5	178.448	168.535	160.433	168.535	178.448	194.332	207.870
74.0	171.413	162.352	154.357	162.352	171.413	186.230	199.235
74.5	164.590	156.276	148.494	156.276	164.590	178.235	190.814
75.0	157.875	150.306	143.164	150.306	157.875	170.347	182.606
75.5	151.265	144.443	138.367	144.443	151.265	162.565	174.398
76.0	144.869	138.687	134.103	138.687	144.869	155.103	166.403
76.5	138.687	132.930	129.732	132.930	138.687	147.641	158.408
77.0	132.504	127.174	124.615	127.174	132.504	140.392	150.732
77.5	126.321	121.524	119.605	121.524	126.321	133.250	142.951
78.0	120.138	115.874	114.702	115.874	120.138	126.214	135.489
78.5	114.169	110.438	109.691	110.438	114.169	119.392	128.027
79.0	108.306	105.108	104.468	105.108	108.306	112.676	120.778
79.5	102.443	99.884	99.458	99.884	102.443	106.067	113.636
80.0	96.686	94.661	94.448	94.661	96.686	99.671	106.707
80.5	91.036	89.544	89.544	89.544	91.036	93.382	99.884
81.0	85.600	84.534	84.747	84.534	85.600	87.305	93.382
81.5	80.163	79.630	79.950	79.630	80.163	81.442	86.879
82.0	74.940	74.833	75.260	74.833	74.940	75.686	80.590
82.5	69.930	70.036	70.676	70.036	69.930	70.143	74.620
83.0	64.919	65.452	66.199	65.452	64.919	64.919	68.650
83.5	60.016	60.975	61.828	60.975	60.016	59.696	62.894
84.0	55.325	56.498	57.457	56.498	55.325	54.792	57.244
84.5	50.742	52.234	53.300	52.234	50.742	49.889	51.914
85.0	46.264	47.970	49.143	47.970	46.264	45.092	46.691
85.5	41.894	43.919	45.092	43.919	41.894	40.401	41.681
86.0	37.630	39.868	41.148	39.868	37.630	35.924	36.777
86.5	33.472	35.924	37.310	35.924	33.472	31.554	32.087
87.0	29.528	32.087	33.579	32.087	29.528	27.290	27.503
87.5	25.584	28.356	29.955	28.356	25.584	23.132	23.132
88.0	21.533	23.559	25.051	23.559	21.533	18.975	18.868
88.5	15.457	15.137	15.031	15.137	15.457	14.498	14.604
89.0	9.487	9.061	10.660	9.061	9.487	10.127	10.340
89.5	7.249	7.249	9.914	7.249	7.249	7.569	6.716
90.0	8.315	7.569	10.340	7.569	8.315	8.315	5.863
90.5	13.325	14.178	14.924	14.178	13.325	11.726	7.142
91.0	15.457	16.630	17.376	16.630	15.457	13.538	9.701
91.5	17.269	18.655	19.188	18.655	17.269	15.564	12.046
92.0	18.975	20.574	20.894	20.574	18.975	18.442	14.071
92.5	20.680	22.279	22.493	22.279	20.680	22.279	16.523
93.0	23.239	24.092	24.198	24.092	23.239	26.010	19.401
93.5	27.183	26.330	26.010	26.330	27.183	29.955	22.812
94.0	34.005	29.422	28.995	29.422	34.005	34.325	26.650
94.5	41.894	33.259	32.620	33.259	41.894	39.442	30.914
95.0	48.290	39.016	36.884	39.016	48.290	45.625	35.498
95.5	54.153	50.315	42.853	50.315	54.153	52.021	40.295
96.0	60.122	62.254	56.605	62.254	60.122	59.270	45.412

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES**

**CANDELA TABULATION - (Cont.)**

96.5	66.412	69.930	70.569	69.930	66.412	67.371	50.955
97.0	73.021	76.859	78.564	76.859	73.021	74.407	56.711
97.5	80.057	83.468	85.920	83.468	80.057	81.549	62.787
98.0	87.412	90.290	92.955	90.290	87.412	89.118	69.077
98.5	95.087	97.539	100.311	97.539	95.087	96.793	75.473
99.0	103.189	105.108	107.879	105.108	103.189	104.894	82.082
99.5	112.463	112.996	115.768	112.996	112.463	113.209	88.904
100.0	122.483	121.311	123.869	121.311	122.483	121.737	95.940
100.5	132.504	129.839	132.291	129.839	132.504	130.478	102.976
101.0	145.722	138.687	140.925	138.687	145.722	139.433	110.118
101.5	159.047	147.961	149.880	147.961	159.047	148.494	117.367
102.0	173.438	157.448	158.941	157.448	173.438	157.768	124.829
102.5	188.789	167.575	168.428	167.575	188.789	167.255	132.397
103.0	204.779	179.408	178.129	179.408	204.779	177.063	139.966
103.5	219.916	191.880	188.149	191.880	219.916	187.296	147.641
104.0	234.733	204.246	200.941	204.246	234.733	197.317	155.316
104.5	248.698	215.439	215.972	215.439	248.698	207.444	163.098
105.0	262.236	226.632	225.566	226.632	262.236	217.357	170.880
105.5	275.561	239.317	235.053	239.317	275.561	227.911	178.662
106.0	288.779	252.642	246.246	252.642	288.779	239.210	186.550
106.5	301.678	267.353	258.185	267.353	301.678	250.084	194.332
107.0	314.470	283.449	270.871	283.449	314.470	260.317	202.327
107.5	326.942	301.785	283.769	301.785	326.942	270.231	210.322
108.0	339.414	321.506	297.627	321.506	339.414	280.038	218.317
108.5	351.780	341.653	313.084	341.653	351.780	289.739	226.205
109.0	364.359	362.547	330.247	362.547	364.359	299.333	234.094
109.5	376.618	383.120	349.328	383.120	376.618	308.927	242.089
110.0	388.983	402.735	370.328	402.735	388.983	318.521	250.084
110.5	401.242	421.390	392.714	421.390	401.242	328.435	257.972
111.0	413.501	438.872	415.314	438.872	413.501	338.348	265.967
111.5	425.867	455.608	437.380	455.608	425.867	348.369	274.069
112.0	438.233	471.172	458.806	471.172	438.233	358.496	282.064
112.5	450.492	485.989	479.060	485.989	450.492	368.623	290.165
113.0	462.751	500.380	498.248	500.380	462.751	378.856	298.054
113.5	475.329	514.238	516.051	514.238	475.329	389.197	306.049
114.0	488.228	527.883	532.893	527.883	488.228	399.430	314.150
114.5	501.340	541.421	548.564	541.421	501.340	409.877	322.252
115.0	514.558	554.640	563.488	554.640	514.558	420.430	330.140
115.5	528.203	567.538	577.879	567.538	528.203	430.984	338.135
116.0	542.274	580.437	591.630	580.437	542.274	441.431	346.130
116.5	556.559	593.229	605.168	593.229	556.559	451.877	354.232
117.0	571.056	605.701	618.173	605.701	571.056	462.324	362.120
117.5	585.234	618.280	631.072	618.280	585.234	472.771	370.009
118.0	598.666	630.752	643.864	630.752	598.666	483.538	378.004
118.5	611.244	643.118	656.336	643.118	611.244	494.198	385.892
119.0	623.503	655.377	668.702	655.377	623.503	504.858	393.994
119.5	635.229	667.529	680.748	667.529	635.229	515.518	401.989
120.0	646.422	679.895	692.793	679.895	646.422	526.071	409.877
120.5	657.296	692.474	704.946	692.474	657.296	536.838	417.765
121.0	667.636	705.266	716.885	705.266	667.636	547.391	425.760
121.5	677.869	718.591	728.504	718.591	677.869	558.051	433.649
122.0	687.783	732.342	740.657	732.342	687.783	568.604	441.644
122.5	697.697	746.307	753.129	746.307	697.697	579.158	449.639
123.0	707.824	760.484	766.134	760.484	707.824	589.711	457.634
123.5	717.631	774.662	779.672	774.662	717.631	600.371	465.735
124.0	727.652	788.307	793.637	788.307	727.652	610.925	473.837

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES

## CANDELA TABULATION - (Cont.)

124.5	737.779	801.419	807.388	801.419	737.779	621.478	481.832
125.0	748.119	813.891	821.033	813.891	748.119	632.031	489.827
125.5	758.672	824.871	834.252	824.871	758.672	642.372	497.929
126.0	769.119	836.064	845.978	836.064	769.119	652.818	506.030
126.5	779.566	845.125	857.810	845.125	779.566	663.052	514.132
127.0	789.799	855.039	868.150	855.039	789.799	673.392	522.233
127.5	800.140	864.419	878.384	864.419	800.140	683.732	530.228
128.0	810.480	873.374	887.232	873.374	810.480	693.859	538.437
128.5	820.927	882.115	895.866	882.115	820.927	703.986	546.645
129.0	831.054	891.709	904.608	891.709	831.054	714.113	554.746
129.5	841.714	900.877	914.628	900.877	841.714	724.027	562.955
130.0	851.521	909.938	924.648	909.938	851.521	733.941	571.163
130.5	861.648	918.892	934.775	918.892	861.648	743.748	579.371
131.0	871.135	927.740	944.476	927.740	871.135	753.662	587.579
131.5	880.942	936.374	952.791	936.374	880.942	763.363	595.787
132.0	890.217	945.649	962.172	945.649	890.217	773.383	603.996
132.5	899.384	953.750	970.380	953.750	899.384	783.084	612.310
133.0	908.872	962.385	979.121	962.385	908.872	792.891	620.519
133.5	918.252	971.019	986.157	971.019	918.252	802.485	628.727
134.0	926.567	979.761	994.365	979.761	926.567	812.185	636.935
134.5	936.055	989.141	1002.360	989.141	936.055	821.460	645.250
135.0	945.009	997.883	1010.675	997.883	945.009	830.627	653.565
135.5	953.644	1005.984	1018.883	1005.984	953.644	839.901	661.879
136.0	962.385	1014.939	1027.411	1014.939	962.385	849.495	670.088
136.5	970.806	1023.573	1035.193	1023.573	970.806	858.023	678.402
137.0	979.547	1032.314	1043.934	1032.314	979.547	867.937	686.717
137.5	987.649	1041.482	1052.675	1041.482	987.649	876.892	694.925
138.0	996.923	1050.117	1061.310	1050.117	996.923	885.739	703.240
138.5	1005.131	1058.431	1070.264	1058.431	1005.131	894.267	711.662
139.0	1013.553	1066.000	1077.726	1066.000	1013.553	903.009	720.083
139.5	1021.654	1074.528	1086.254	1074.528	1021.654	911.750	728.398
140.0	1030.396	1083.056	1094.782	1083.056	1030.396	920.704	736.713
140.5	1037.964	1091.584	1103.310	1091.584	1037.964	928.593	745.134
141.0	1046.172	1100.112	1110.772	1100.112	1046.172	936.801	753.449
141.5	1053.634	1107.574	1119.300	1107.574	1053.634	944.796	761.764
142.0	1061.949	1115.036	1127.828	1115.036	1061.949	953.111	770.078
142.5	1069.198	1123.564	1134.224	1123.564	1069.198	960.679	778.073
143.0	1075.594	1131.026	1143.818	1131.026	1075.594	968.568	786.175
143.5	1083.056	1138.488	1151.280	1138.488	1083.056	975.816	794.170
144.0	1090.518	1145.950	1159.808	1145.950	1090.518	982.745	801.739
144.5	1096.914	1153.412	1167.270	1153.412	1096.914	989.674	810.053
145.0	1103.310	1160.874	1175.798	1160.874	1103.310	996.817	817.942
145.5	1109.706	1168.336	1184.326	1168.336	1109.706	1003.319	825.510
146.0	1115.036	1174.732	1192.854	1174.732	1115.036	1010.035	833.612
146.5	1121.432	1181.128	1199.250	1181.128	1121.432	1016.324	841.074
147.0	1126.762	1187.524	1206.712	1187.524	1126.762	1023.253	848.536
147.5	1132.092	1192.854	1212.042	1192.854	1132.092	1029.969	855.891
148.0	1137.422	1198.184	1218.438	1198.184	1137.422	1035.299	864.206
148.5	1142.752	1203.514	1223.768	1203.514	1142.752	1041.589	871.242
149.0	1147.016	1207.778	1228.032	1207.778	1147.016	1047.558	878.810
149.5	1152.346	1212.042	1232.296	1212.042	1152.346	1053.634	886.059
150.0	1157.676	1215.240	1234.428	1215.240	1157.676	1059.924	893.521
150.5	1161.940	1219.504	1237.626	1219.504	1161.940	1065.254	900.983
151.0	1165.138	1221.636	1240.824	1221.636	1165.138	1070.264	908.658
151.5	1170.468	1224.834	1244.022	1224.834	1170.468	1075.594	915.801
152.0	1173.666	1226.966	1245.088	1226.966	1173.666	1080.924	923.689

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES****CANDELA TABULATION - (Cont.)**

152.5	1177.930	1229.098	1247.220	1229.098	1177.930	1086.254	930.831
153.0	1181.128	1232.296	1250.418	1232.296	1181.128	1091.584	937.760
153.5	1185.392	1235.494	1252.550	1235.494	1185.392	1095.848	944.476
154.0	1188.590	1238.692	1255.748	1238.692	1188.590	1100.112	950.872
154.5	1190.722	1240.824	1257.880	1240.824	1190.722	1104.376	957.481
155.0	1194.986	1242.956	1261.078	1242.956	1194.986	1109.706	964.197
155.5	1197.118	1246.154	1263.210	1246.154	1197.118	1112.904	970.593
156.0	1200.316	1249.352	1265.342	1249.352	1200.316	1117.168	977.096
156.5	1202.448	1251.484	1267.474	1251.484	1202.448	1120.366	983.811
157.0	1205.646	1254.682	1269.606	1254.682	1205.646	1123.564	989.994
157.5	1207.778	1256.814	1271.738	1256.814	1207.778	1125.696	995.857
158.0	1209.910	1258.946	1273.870	1258.946	1209.910	1129.960	1001.827
158.5	1212.042	1261.078	1274.936	1261.078	1212.042	1132.092	1008.010
159.0	1214.174	1263.210	1277.068	1263.210	1214.174	1135.290	1013.340
159.5	1215.240	1265.342	1279.200	1265.342	1215.240	1137.422	1019.522
160.0	1216.306	1266.408	1280.266	1266.408	1216.306	1140.620	1025.172
160.5	1218.438	1267.474	1281.332	1267.474	1218.438	1143.818	1030.609
161.0	1219.504	1269.606	1283.464	1269.606	1219.504	1145.950	1035.939
161.5	1219.504	1270.672	1283.464	1270.672	1219.504	1148.082	1041.375
162.0	1220.570	1270.672	1284.530	1270.672	1220.570	1150.214	1046.492
162.5	1221.636	1270.672	1284.530	1270.672	1221.636	1152.346	1051.289
163.0	1222.702	1270.672	1285.596	1270.672	1222.702	1154.478	1056.726
163.5	1222.702	1270.672	1284.530	1270.672	1222.702	1156.610	1061.310
164.0	1221.636	1269.606	1283.464	1269.606	1221.636	1158.742	1065.787
164.5	1221.636	1268.540	1282.398	1268.540	1221.636	1159.808	1070.264
165.0	1221.636	1267.474	1281.332	1267.474	1221.636	1161.940	1074.528
165.5	1221.636	1265.342	1280.266	1265.342	1221.636	1163.006	1078.792
166.0	1220.570	1264.276	1278.134	1264.276	1220.570	1164.072	1084.122
166.5	1219.504	1262.144	1276.002	1262.144	1219.504	1165.138	1087.320
167.0	1218.438	1260.012	1273.870	1260.012	1218.438	1166.204	1091.584
167.5	1217.372	1257.880	1270.672	1257.880	1217.372	1167.270	1095.848
168.0	1216.306	1255.748	1267.474	1255.748	1216.306	1167.270	1100.112
168.5	1214.174	1252.550	1264.276	1252.550	1214.174	1168.336	1103.310
169.0	1212.042	1250.418	1261.078	1250.418	1212.042	1168.336	1106.508
169.5	1209.910	1247.220	1257.880	1247.220	1209.910	1168.336	1108.640
170.0	1207.778	1244.022	1253.616	1244.022	1207.778	1168.336	1112.904
170.5	1205.646	1240.824	1250.418	1240.824	1205.646	1168.336	1115.036
171.0	1202.448	1236.560	1247.220	1236.560	1202.448	1167.270	1118.234
171.5	1200.316	1232.296	1242.956	1232.296	1200.316	1167.270	1120.366
172.0	1197.118	1229.098	1238.692	1229.098	1197.118	1167.270	1123.564
172.5	1194.986	1223.768	1234.428	1223.768	1194.986	1166.204	1125.696
173.0	1191.788	1219.504	1230.164	1219.504	1191.788	1165.138	1128.894
173.5	1187.524	1215.240	1224.834	1215.240	1187.524	1165.138	1131.026
174.0	1184.326	1209.910	1219.504	1209.910	1184.326	1163.006	1132.092
174.5	1181.128	1204.580	1213.108	1204.580	1181.128	1161.940	1134.224
175.0	1177.930	1199.250	1207.778	1199.250	1177.930	1160.874	1136.356
175.5	1173.666	1192.854	1201.382	1192.854	1173.666	1158.742	1137.422
176.0	1169.402	1187.524	1194.986	1187.524	1169.402	1156.610	1138.488
176.5	1165.138	1182.194	1187.524	1182.194	1165.138	1156.610	1139.554
177.0	1160.874	1175.798	1181.128	1175.798	1160.874	1153.412	1140.620
177.5	1156.610	1170.468	1174.732	1170.468	1156.610	1151.280	1141.686
178.0	1152.346	1163.006	1167.270	1163.006	1152.346	1149.148	1142.752
178.5	1147.016	1155.544	1159.808	1155.544	1147.016	1147.016	1142.752
179.0	1141.686	1149.148	1152.346	1149.148	1141.686	1144.884	1143.818
179.5	1136.356	1141.686	1144.884	1141.686	1136.356	1142.752	1143.818
180.0	1136.356	1136.356	1136.356	1136.356	1136.356	1136.356	1136.356

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	517.57	N.A.	7.80
0-30	1061.79	N.A.	16.10
0-40	1664.83	N.A.	25.20
0-60	2700.66	N.A.	40.90
0-80	3216.23	N.A.	48.70
0-90	3276.66	N.A.	49.70
10-90	3139.88	N.A.	47.60
20-40	1147.26	N.A.	17.40
20-50	1714.98	N.A.	26.00
40-70	1366.57	N.A.	20.70
60-80	515.56	N.A.	7.80
70-80	184.82	N.A.	2.80
80-90	60.43	N.A.	0.90
90-110	264.82	N.A.	4.00
90-120	692.34	N.A.	10.50
90-130	1259.06	N.A.	19.10
90-150	2446.54	N.A.	37.10
90-180	3322.44	N.A.	50.30
110-180	3057.62	N.A.	46.30
0-180	6599.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.78
10-20	380.79
20-30	544.21
30-40	603.05
40-50	567.73
50-60	468.10
60-70	330.74
70-80	184.82
80-90	60.43
90-100	47.89
100-110	216.93
110-120	427.52
120-130	566.72
130-140	612.84
140-150	574.64
150-160	463.91
160-170	304.85
170-180	107.13

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	98	94	90	86	90	87	83	80	73	71	69	61	59	58	50	49	47	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	47	51	46	42	43	39	36	35	32	30	27
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	26	23
6	63	52	44	38	58	48	41	36	41	36	32	35	31	27	29	26	23	21
7	59	47	39	33	54	44	36	32	37	32	28	32	28	24	27	23	21	18
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	30	25	31	26	22	27	23	20	23	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14



# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.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	12.8	13.7	13.8	14.7	15.9	14.4	15.2	15.3	16.2	17.5
	3H	13.9	14.7	14.9	15.7	17.0	15.9	16.7	16.9	17.7	19.0
	4H	14.2	14.9	15.2	15.9	17.2	16.5	17.2	17.5	18.2	19.5
	6H	14.3	15.0	15.3	16.0	17.3	17.0	17.6	18.0	18.6	19.9
	8H	14.3	15.0	15.3	16.0	17.3	17.1	17.8	18.1	18.8	20.1
	12H	14.3	14.9	15.3	15.9	17.3	17.3	17.9	18.3	18.9	20.2

### UGR Viewed Endwise

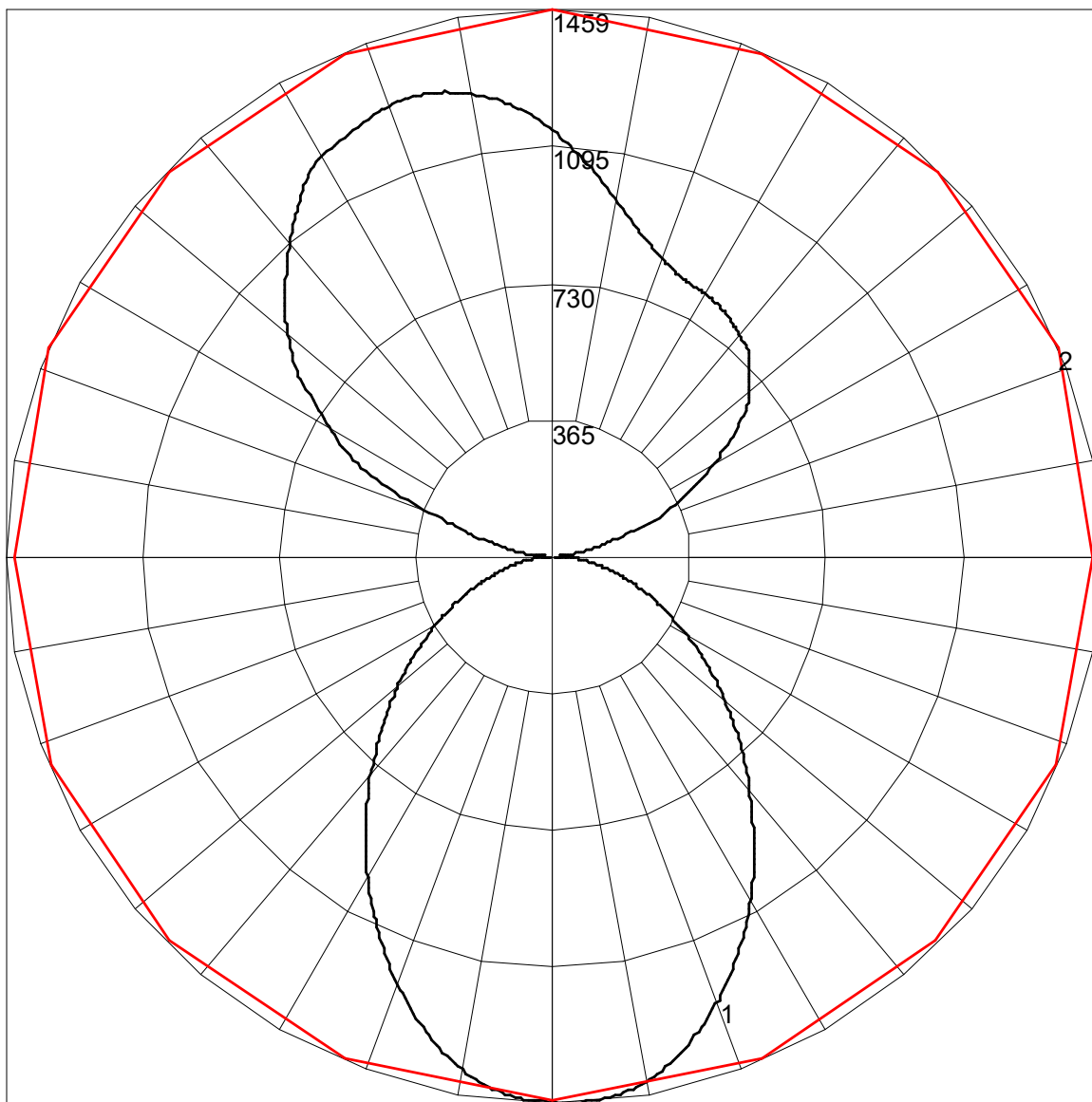
4H	2H	13.2	13.9	14.2	14.9	16.2	14.6	15.3	15.6	16.3	17.6
	3H	14.4	15.1	15.4	16.1	17.4	16.2	16.8	17.2	17.9	19.2
	4H	14.8	15.4	15.8	16.4	17.7	16.9	17.5	17.9	18.5	19.8
	6H	15.0	15.5	16.1	16.6	17.9	17.5	17.9	18.5	19.0	20.3
	8H	15.1	15.5	16.1	16.5	17.9	17.7	18.1	18.7	19.1	20.5
	12H	15.1	15.5	16.1	16.5	17.9	17.8	18.2	18.9	19.3	20.6
8H	4H	15.0	15.4	16.0	16.4	17.8	16.9	17.4	18.0	18.4	19.8
	6H	15.2	15.6	16.3	16.7	18.0	17.5	17.9	18.6	19.0	20.3
	8H	15.3	15.6	16.4	16.7	18.1	17.8	18.1	18.8	19.2	20.5
	12H	15.3	15.6	16.4	16.7	18.1	18.0	18.3	19.1	19.3	20.7
12H	4H	14.9	15.3	16.0	16.4	17.7	16.9	17.3	17.9	18.3	19.7
	6H	15.2	15.6	16.3	16.6	18.0	17.5	17.8	18.6	18.9	20.3
	8H	15.3	15.6	16.4	16.7	18.1	17.8	18.1	18.8	19.1	20.5

Maximum UGR = 20.7

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX2UD-4-00-L8-8TWU-L8-8TWD-FA-F-DIM-UNV 4000K\_.IES

## POLAR GRAPH



Maximum Candela = 1459.354 Located At Horizontal Angle = 90, Vertical Angle = 2

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)