

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 15180278.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 2025-03-20

[TEST DATE] 2/23/2024

[MANUFAC] WILLIAMS INDOOR, H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMCAT] FS-4-LS-8CS-DIM-UNV_42W_4000K_

[LUMINAIRE] 45 INCH, 224 LEDS, LUMEN/WATTAGE/CCT SELECTABLE, LED STRIP

[MORE] WITH FROSTED ACRYLIC LENS

[SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5859
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	40.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25256	23898	24772
55	22988	22124	23571
65	20251	20183	22295
75	16676	18094	20727
85	11531	16657	19728

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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	1843.917	1843.917	1843.917	1843.917	1843.917	1843.917	1843.917	1843.917	1843.917
0.5	1819.655	1851.053	1846.771	1846.771	1838.208	1848.198	1846.771	1853.907	1821.082
1.0	1818.227	1849.625	1843.917	1848.198	1836.781	1848.198	1843.917	1852.480	1821.082
1.5	1821.082	1849.625	1841.062	1846.771	1838.208	1848.198	1843.917	1851.053	1821.082
2.0	1821.082	1848.198	1843.917	1848.198	1836.781	1851.053	1843.917	1852.480	1819.655
2.5	1819.655	1846.771	1841.062	1846.771	1836.781	1845.344	1843.917	1849.625	1816.800
3.0	1815.373	1846.771	1839.635	1846.771	1836.781	1846.771	1842.489	1851.053	1816.800
3.5	1816.800	1843.917	1838.208	1842.489	1833.926	1843.917	1841.062	1846.771	1818.227
4.0	1812.519	1841.062	1835.354	1843.917	1835.354	1842.489	1839.635	1848.198	1813.946
4.5	1813.946	1836.781	1835.354	1841.062	1832.499	1842.489	1836.781	1845.344	1811.091
5.0	1806.810	1835.354	1831.072	1839.635	1832.499	1841.062	1835.354	1842.489	1811.091
5.5	1805.383	1835.354	1829.645	1838.208	1832.499	1839.635	1835.354	1839.635	1806.810
6.0	1802.528	1831.072	1826.790	1836.781	1828.218	1836.781	1831.072	1839.635	1805.383
6.5	1799.674	1828.218	1825.363	1832.499	1825.363	1835.354	1829.645	1836.781	1802.528
7.0	1795.393	1823.936	1822.509	1828.218	1822.509	1832.499	1828.218	1835.354	1803.956
7.5	1793.965	1822.509	1818.227	1828.218	1819.655	1829.645	1823.936	1832.499	1798.247
8.0	1791.111	1818.227	1815.373	1823.936	1819.655	1828.218	1822.509	1829.645	1795.393
8.5	1786.829	1813.946	1811.091	1819.655	1813.946	1823.936	1819.655	1825.363	1789.684
9.0	1783.975	1809.664	1805.383	1818.227	1811.091	1819.655	1815.373	1823.936	1786.829
9.5	1775.412	1805.383	1805.383	1815.373	1808.237	1818.227	1812.519	1818.227	1782.548
10.0	1773.985	1803.956	1798.247	1806.810	1806.810	1813.946	1809.664	1815.373	1781.121
10.5	1763.995	1795.393	1795.393	1806.810	1799.674	1811.091	1805.383	1809.664	1773.985
11.0	1762.567	1793.965	1791.111	1801.101	1796.820	1806.810	1798.247	1802.528	1773.985
11.5	1756.859	1786.829	1785.402	1796.820	1793.965	1801.101	1795.393	1801.101	1766.849
12.0	1751.150	1781.121	1782.548	1792.538	1788.257	1798.247	1789.684	1795.393	1759.713
12.5	1744.014	1775.412	1776.839	1789.684	1788.257	1791.111	1785.402	1788.257	1756.859
13.0	1741.160	1772.558	1769.703	1783.975	1782.548	1788.257	1781.121	1785.402	1748.296
13.5	1736.878	1765.422	1766.849	1776.839	1776.839	1782.548	1776.839	1781.121	1742.587
14.0	1728.315	1758.286	1759.713	1772.558	1771.130	1778.266	1769.703	1775.412	1736.878
14.5	1718.325	1751.150	1752.577	1766.849	1765.422	1771.130	1765.422	1769.703	1732.597
15.0	1714.043	1746.868	1749.723	1763.995	1759.713	1766.849	1758.286	1762.567	1725.461
15.5	1708.335	1742.587	1741.160	1756.859	1754.004	1759.713	1754.004	1755.431	1719.752
16.0	1704.053	1732.597	1735.451	1752.577	1746.868	1754.004	1745.441	1749.723	1709.762
16.5	1691.208	1726.888	1726.888	1746.868	1741.160	1748.296	1738.305	1742.587	1708.335
17.0	1684.072	1719.752	1722.606	1739.732	1735.451	1739.732	1732.597	1736.878	1698.344
17.5	1676.937	1711.189	1714.043	1731.169	1728.315	1732.597	1724.034	1731.169	1694.063
18.0	1672.655	1701.199	1705.480	1722.606	1722.606	1724.034	1718.325	1719.752	1685.500
18.5	1664.092	1695.490	1698.344	1718.325	1715.470	1718.325	1709.762	1714.043	1678.364
19.0	1652.674	1686.927	1689.781	1709.762	1706.907	1711.189	1704.053	1705.480	1669.801
19.5	1646.966	1679.791	1682.645	1702.626	1698.344	1702.626	1696.917	1698.344	1659.810
20.0	1638.403	1669.801	1674.082	1694.063	1691.208	1696.917	1688.354	1689.781	1652.674
20.5	1628.412	1661.238	1666.946	1686.927	1684.072	1686.927	1681.218	1681.218	1645.539
21.0	1621.277	1652.674	1656.956	1676.937	1675.509	1681.218	1669.801	1675.509	1634.121
21.5	1609.859	1644.111	1648.393	1668.373	1669.801	1674.082	1664.092	1665.519	1626.985
22.0	1602.723	1636.976	1641.257	1659.810	1661.238	1664.092	1655.529	1656.956	1618.422
22.5	1589.879	1624.131	1631.267	1652.674	1655.529	1659.810	1646.966	1646.966	1607.005
23.0	1581.315	1615.568	1622.704	1642.684	1646.966	1649.820	1639.830	1638.403	1601.296
23.5	1574.180	1605.578	1615.568	1635.548	1641.257	1645.539	1631.267	1629.840	1591.306
24.0	1559.908	1597.014	1605.578	1626.985	1632.694	1636.976	1622.704	1616.995	1577.034
24.5	1554.199	1588.451	1595.587	1619.849	1625.558	1629.840	1612.713	1608.432	1568.471
25.0	1542.782	1574.180	1587.024	1612.713	1621.277	1622.704	1604.150	1599.869	1559.908
25.5	1529.937	1565.617	1574.180	1605.578	1614.141	1614.141	1597.014	1591.306	1551.345
26.0	1518.520	1557.053	1565.617	1594.160	1605.578	1605.578	1587.024	1581.315	1538.500
26.5	1508.529	1544.209	1557.053	1588.451	1598.442	1597.014	1577.034	1569.898	1529.937

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27.0	1499.966	1534.219	1548.490	1578.461	1587.024	1588.451	1567.044	1559.908	1518.520
27.5	1487.122	1525.655	1538.500	1571.325	1579.888	1578.461	1558.481	1549.918	1507.102
28.0	1477.131	1511.384	1525.655	1562.762	1572.752	1569.898	1547.063	1538.500	1497.112
28.5	1467.141	1501.393	1517.092	1552.772	1564.189	1561.335	1538.500	1528.510	1487.122
29.0	1455.724	1489.976	1507.102	1544.209	1555.626	1551.345	1528.510	1518.520	1474.277
29.5	1444.306	1479.986	1497.112	1534.219	1545.636	1542.782	1519.947	1505.675	1462.860
30.0	1430.034	1468.568	1487.122	1524.228	1537.073	1534.219	1508.529	1495.685	1450.015
30.5	1418.760	1457.151	1475.704	1515.665	1528.510	1524.228	1498.539	1484.267	1438.597
31.0	1406.771	1444.306	1465.714	1505.675	1519.947	1515.665	1487.122	1472.850	1430.034
31.5	1397.780	1431.462	1455.724	1495.685	1509.956	1507.102	1478.559	1461.432	1414.621
32.0	1382.795	1422.613	1444.306	1487.122	1501.393	1498.539	1468.568	1450.015	1404.060
32.5	1373.090	1409.768	1432.889	1477.131	1492.830	1488.549	1455.724	1437.170	1394.212
33.0	1359.104	1398.351	1420.330	1468.568	1485.694	1479.986	1444.306	1424.611	1378.228
33.5	1346.544	1386.220	1409.626	1460.005	1475.704	1468.568	1434.316	1413.622	1368.095
34.0	1335.127	1374.232	1401.348	1448.588	1467.141	1460.005	1425.182	1402.918	1357.676
34.5	1321.854	1360.816	1389.217	1438.597	1458.578	1450.015	1413.907	1388.503	1343.119
35.0	1311.436	1349.256	1379.084	1430.034	1448.588	1440.025	1403.203	1377.371	1333.557
35.5	1298.448	1335.983	1368.951	1420.758	1441.452	1430.034	1391.072	1363.956	1318.143
36.0	1283.178	1322.282	1356.677	1410.625	1431.462	1422.328	1379.655	1352.110	1307.868
36.5	1269.905	1310.437	1347.258	1400.064	1423.041	1411.909	1369.094	1339.694	1296.022
37.0	1259.629	1296.879	1334.413	1392.071	1414.335	1402.490	1357.248	1327.277	1286.175
37.5	1245.928	1285.747	1323.995	1381.653	1405.059	1391.215	1347.686	1315.860	1273.758
38.0	1231.228	1272.759	1312.149	1372.376	1395.925	1381.225	1336.269	1304.157	1259.058
38.5	1219.383	1259.772	1302.587	1361.958	1385.649	1371.377	1323.709	1292.597	1245.072
39.0	1205.111	1245.928	1290.599	1351.825	1375.944	1361.102	1313.719	1281.465	1231.514
39.5	1191.553	1231.942	1279.752	1341.264	1367.096	1351.111	1301.588	1268.906	1215.672
40.0	1176.995	1220.667	1268.478	1331.559	1358.818	1342.120	1290.313	1257.346	1200.829
40.5	1164.722	1207.822	1257.346	1321.283	1347.829	1331.844	1279.181	1242.646	1186.843
41.0	1149.165	1193.408	1245.500	1311.864	1336.840	1321.854	1267.764	1229.658	1172.857
41.5	1136.321	1179.279	1235.795	1302.159	1329.418	1310.579	1255.490	1214.102	1158.727
42.0	1121.478	1166.720	1223.379	1291.455	1319.571	1302.587	1244.216	1199.402	1146.026
42.5	1108.205	1153.304	1211.533	1282.036	1310.151	1291.170	1231.514	1186.272	1132.039
43.0	1093.934	1141.459	1200.116	1271.332	1300.446	1280.181	1220.810	1170.573	1118.053
43.5	1081.517	1129.185	1188.127	1260.628	1291.741	1269.619	1210.249	1156.729	1105.779
44.0	1069.386	1114.628	1176.995	1251.209	1281.893	1260.485	1197.261	1141.887	1091.079
44.5	1052.403	1100.927	1163.294	1240.219	1272.046	1250.781	1187.557	1128.757	1078.092
45.0	1039.986	1087.368	1153.875	1230.229	1262.341	1238.507	1176.282	1113.914	1064.676
45.5	1027.141	1074.096	1140.602	1219.668	1250.638	1229.373	1164.436	1101.926	1051.261
46.0	1013.012	1062.821	1129.613	1208.108	1240.933	1219.525	1153.304	1087.797	1036.133
46.5	1000.596	1049.405	1117.339	1196.262	1231.656	1207.537	1141.887	1075.095	1023.716
47.0	986.039	1034.991	1105.779	1187.842	1221.381	1199.259	1131.326	1061.965	1010.872
47.5	971.767	1022.146	1093.934	1175.996	1212.247	1189.126	1119.765	1048.406	994.459
48.0	960.635	1008.874	1083.087	1167.576	1200.544	1176.139	1108.491	1034.706	983.327
48.5	945.079	995.601	1071.384	1154.589	1191.267	1166.577	1096.788	1021.575	966.914
49.0	935.945	984.469	1060.537	1144.741	1180.991	1156.159	1084.657	1008.874	954.070
49.5	923.671	969.626	1048.977	1134.323	1169.859	1146.168	1069.814	994.744	941.368
50.0	909.256	958.209	1037.417	1123.619	1160.726	1135.464	1059.110	981.186	930.379
50.5	894.985	948.076	1023.288	1112.772	1150.450	1124.332	1046.837	968.484	918.248
51.0	881.569	935.659	1013.583	1101.783	1140.888	1113.629	1033.278	954.498	902.549
51.5	868.296	923.243	1000.881	1092.364	1132.039	1103.067	1021.433	946.363	888.990
52.0	854.310	909.399	990.320	1081.945	1120.907	1092.649	1008.588	933.376	874.576
52.5	841.465	896.840	978.475	1070.956	1110.489	1081.660	997.313	921.816	861.446
53.0	827.051	882.996	966.058	1060.537	1099.785	1072.383	985.753	907.829	848.601
53.5	814.064	870.152	954.498	1049.405	1089.081	1060.966	972.909	894.414	833.616
54.0	799.934	858.163	944.080	1038.559	1077.664	1050.262	962.490	881.284	819.059
54.5	786.233	844.177	935.659	1026.571	1068.815	1040.129	949.931	867.583	806.071

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55.0	771.534	831.047	924.670	1016.295	1058.111	1028.569	942.795	855.166	791.657
55.5	758.118	819.344	912.539	1004.592	1046.551	1017.579	931.663	842.036	777.385
56.0	744.703	805.072	900.551	993.175	1036.846	1007.304	919.389	828.478	764.683
56.5	731.858	791.799	888.562	982.899	1024.858	994.174	906.545	813.921	750.126
57.0	717.872	778.384	877.002	971.196	1014.582	983.327	894.556	801.219	734.855
57.5	704.742	766.253	866.156	960.349	1002.309	971.481	882.283	786.947	721.440
58.0	691.897	752.837	853.168	949.217	990.606	960.064	869.724	774.245	707.881
58.5	678.053	739.565	841.180	941.511	979.759	950.645	857.878	760.972	693.467
59.0	665.351	726.720	830.476	933.233	969.198	941.511	844.891	746.843	680.765
59.5	651.650	714.161	817.917	919.818	957.210	930.807	833.330	734.427	666.208
60.0	638.520	701.459	804.930	908.686	950.216	918.961	820.914	721.440	653.934
60.5	625.248	688.472	792.799	898.553	939.941	907.544	809.925	707.453	638.806
61.0	610.833	675.627	781.524	885.708	929.380	895.270	797.223	695.465	625.390
61.5	597.846	662.640	770.106	873.862	918.248	883.567	785.663	681.193	611.832
62.0	584.573	649.938	758.403	862.730	905.831	873.006	772.390	668.634	597.988
62.5	571.443	637.521	746.701	851.170	893.700	860.161	761.258	655.218	584.573
63.0	558.741	624.534	734.855	839.610	882.283	848.887	748.984	642.659	571.443
63.5	545.325	612.403	722.867	827.194	871.008	837.041	736.425	629.529	558.313
64.0	531.482	599.701	711.449	815.633	859.305	825.624	724.865	616.542	544.041
64.5	517.210	586.999	698.747	803.502	846.746	814.634	712.306	603.983	530.768
65.0	504.794	575.296	686.902	791.942	835.186	802.075	700.888	591.138	517.353
65.5	492.377	562.594	675.199	781.238	824.482	790.515	689.471	578.293	504.365
66.0	478.819	550.035	664.067	767.823	812.494	778.241	676.626	565.306	490.950
66.5	466.973	537.904	651.793	756.834	799.934	766.253	665.351	552.604	477.820
67.0	453.986	526.059	639.948	744.845	788.374	753.551	652.507	540.330	465.403
67.5	441.712	513.785	628.673	732.286	775.815	742.276	641.660	528.199	452.702
68.0	429.010	501.939	615.971	721.868	764.398	730.573	629.244	515.640	440.428
68.5	416.594	490.236	605.124	708.880	752.552	717.872	617.113	503.366	426.727
69.0	404.177	477.534	593.421	698.319	740.564	706.740	605.410	491.806	414.596
69.5	391.047	465.689	581.861	685.760	728.433	695.037	594.135	479.390	401.038
70.0	379.202	453.986	569.730	674.200	716.302	682.335	581.861	466.688	388.907
70.5	367.356	441.427	558.456	661.926	704.599	671.203	570.158	454.414	376.633
71.0	354.369	430.295	547.038	651.080	692.753	659.214	558.741	442.283	363.931
71.5	342.666	418.306	536.334	639.377	680.908	648.225	546.610	430.295	351.372
72.0	330.535	407.460	524.061	626.960	668.919	635.951	535.763	418.877	338.242
72.5	318.547	395.757	513.071	615.685	657.787	624.819	523.918	406.604	325.968
73.0	306.416	384.768	501.368	603.412	645.514	612.260	512.643	394.758	314.836
73.5	294.998	373.636	490.379	591.281	633.240	600.700	501.368	383.198	302.419
74.0	283.295	362.076	479.390	581.005	621.965	588.997	489.665	371.638	290.717
74.5	270.879	350.373	467.401	568.874	609.691	577.722	479.104	359.649	278.300
75.0	259.033	339.669	456.698	558.027	598.845	565.734	468.115	348.660	267.025
75.5	248.329	328.822	446.279	546.039	586.999	554.317	456.555	336.957	255.323
76.0	236.484	317.976	435.290	535.335	575.439	543.327	446.136	326.253	243.762
76.5	225.780	307.415	424.586	523.918	563.736	531.482	434.862	314.693	233.201
77.0	215.219	296.853	413.882	512.358	552.033	520.493	423.587	303.989	221.926
77.5	204.372	286.435	403.464	501.654	541.329	508.932	412.883	292.715	211.080
78.0	193.240	276.017	393.188	490.522	529.341	498.086	402.607	282.582	200.233
78.5	182.679	266.169	382.627	479.675	518.495	487.239	392.189	272.163	189.530
79.0	172.261	256.036	372.779	468.686	507.077	476.107	381.485	262.173	179.397
79.5	162.699	246.046	363.075	458.268	496.659	466.402	371.638	251.897	168.550
80.0	152.994	236.056	353.084	447.278	486.240	455.128	361.362	241.907	158.845
80.5	143.003	226.493	343.237	437.288	474.823	444.995	351.800	232.916	148.855
81.0	133.299	217.360	333.675	426.727	464.547	434.148	342.095	223.068	139.578
81.5	124.022	208.083	323.970	416.737	453.986	424.015	332.533	214.077	130.159
82.0	114.888	199.234	314.693	406.746	442.711	414.025	322.971	205.228	121.025
82.5	106.468	190.100	305.417	397.612	432.436	403.464	313.266	196.523	112.319

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

CANDELA TABULATION - (Cont.)

83.0	97.476	181.537	296.283	387.622	422.731	393.474	304.560	187.817	103.613
83.5	89.056	173.260	287.291	377.917	412.455	384.197	295.141	179.397	95.193
84.0	80.778	165.125	278.586	368.355	402.750	374.777	286.720	171.119	86.915
84.5	72.786	157.133	269.880	359.364	393.045	365.215	277.872	163.127	79.208
85.0	65.365	149.711	261.174	349.945	383.626	355.653	269.166	155.420	71.216
85.5	57.944	141.862	253.182	340.668	374.064	346.805	260.889	147.142	63.795
86.0	50.522	134.583	245.190	332.248	364.787	337.956	252.325	139.721	56.231
86.5	43.529	127.447	237.483	323.542	355.939	328.822	244.476	132.157	48.952
87.0	36.536	120.454	229.491	315.121	346.947	320.545	236.769	125.021	41.674
87.5	30.113	113.889	222.069	307.415	338.384	312.410	228.777	118.028	34.680
88.0	23.834	106.753	215.076	299.565	330.535	304.418	221.498	110.892	27.687
88.5	17.554	100.616	208.654	292.429	322.543	297.139	214.648	103.899	20.551
89.0	11.275	94.765	202.660	285.436	315.550	289.718	207.940	97.762	13.844
89.5	5.566	89.912	196.951	279.014	308.556	283.295	202.231	92.339	7.279
90.0	1.998	85.488	191.956	272.734	301.849	276.730	196.951	87.629	2.283
90.5	1.284	81.777	187.103	266.740	295.141	270.308	191.670	83.633	1.284
91.0	1.284	78.638	182.251	260.889	288.861	264.599	186.247	80.493	1.142
91.5	1.284	76.354	178.112	255.180	282.867	259.033	182.108	78.067	1.142
92.0	1.284	74.356	173.831	250.185	277.444	254.038	178.112	76.069	1.142
92.5	1.284	72.501	170.833	245.618	272.163	249.186	174.687	74.213	1.142
93.0	1.284	70.788	167.694	241.193	267.168	244.761	171.547	72.358	1.142
93.5	1.284	69.076	164.839	237.340	262.887	240.623	168.550	70.645	1.142
94.0	1.284	67.506	162.128	233.344	258.605	236.769	165.981	68.933	1.142
94.5	1.284	65.936	159.701	229.919	254.752	233.201	163.269	67.220	1.142
95.0	1.284	64.366	157.275	226.493	251.041	229.348	160.558	65.650	1.142
95.5	1.284	62.939	154.564	223.068	246.902	226.065	157.989	64.223	1.142
96.0	1.284	61.511	152.280	219.643	243.334	222.497	155.420	62.796	1.142
96.5	1.284	60.084	149.711	216.503	239.766	219.358	152.708	61.226	1.142
97.0	1.284	58.657	147.428	212.935	236.056	215.647	150.425	59.799	1.142
97.5	1.284	57.230	144.859	210.081	232.488	212.650	147.999	58.514	1.142
98.0	1.284	55.945	142.575	206.656	229.205	209.367	145.430	57.087	1.142
98.5	1.284	54.804	140.435	203.659	225.923	206.085	143.146	55.660	1.142
99.0	1.284	53.377	137.866	200.804	222.640	202.945	140.720	54.376	1.142
99.5	1.284	52.092	135.725	197.807	219.215	199.948	138.436	53.091	1.142
100.0	1.284	50.950	133.299	194.810	215.932	196.951	136.010	51.807	1.142
100.5	1.284	49.666	131.158	191.813	212.507	194.096	133.869	50.665	1.284
101.0	1.284	48.667	129.017	188.816	209.510	191.242	131.729	49.380	1.284
101.5	1.284	47.382	126.734	185.962	206.513	188.102	129.303	48.239	1.284
102.0	1.427	46.383	124.736	183.107	203.088	185.533	127.304	47.097	1.284
102.5	1.427	45.242	122.595	180.396	199.805	182.822	125.021	45.955	1.284
103.0	1.427	44.243	120.454	177.541	196.808	179.967	122.880	44.813	1.284
103.5	1.427	43.101	118.313	175.115	193.954	177.113	120.882	43.672	1.284
104.0	1.427	42.102	116.458	172.546	191.099	174.401	118.599	42.530	1.284
104.5	1.427	41.103	114.317	169.549	188.388	171.690	116.601	41.531	1.427
105.0	1.427	40.104	112.462	167.123	185.248	169.121	114.603	40.532	1.427
105.5	1.427	39.105	110.606	164.554	182.536	166.266	112.605	39.533	1.427
106.0	1.427	38.106	108.608	161.842	179.825	163.698	110.464	38.534	1.427
106.5	1.427	37.249	106.753	159.559	176.685	161.129	108.608	37.678	1.427
107.0	1.570	36.250	104.898	156.990	174.259	158.417	106.610	36.679	1.427
107.5	1.570	35.394	102.900	154.278	171.690	155.991	104.898	35.822	1.427
108.0	1.570	34.538	101.044	152.137	168.978	153.565	103.042	34.966	1.427
108.5	1.570	33.539	99.474	149.568	166.409	151.281	101.044	33.967	1.570
109.0	1.570	32.682	97.619	147.142	163.840	148.855	99.189	33.111	1.570
109.5	1.570	31.826	95.764	144.716	161.414	146.429	97.476	32.254	1.570
110.0	1.570	31.113	94.194	142.433	158.845	144.002	95.764	31.398	1.570
110.5	1.570	30.256	92.481	140.292	156.276	141.576	93.908	30.542	1.570

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

CANDELA TABULATION - (Cont.)

111.0	1.570	29.400	90.769	138.008	153.993	139.578	92.196	29.828	1.570
111.5	1.713	28.686	89.199	135.868	151.567	137.152	90.340	28.972	1.570
112.0	1.713	27.830	87.486	133.441	149.283	134.869	88.771	28.115	1.570
112.5	1.713	27.116	85.774	131.586	146.857	132.728	87.058	27.402	1.713
113.0	1.713	26.403	84.346	129.160	144.431	130.587	85.345	26.546	1.713
113.5	1.713	25.689	82.491	127.019	142.004	128.161	83.775	25.832	1.713
114.0	1.713	24.833	81.064	125.021	140.006	126.020	82.206	25.118	1.713
114.5	1.713	24.119	79.494	122.880	137.580	124.022	80.493	24.262	1.713
115.0	1.713	23.548	77.924	120.882	135.439	121.881	78.780	23.548	1.713
115.5	1.713	22.692	76.354	118.884	133.156	119.740	77.210	22.835	1.713
116.0	1.713	22.121	74.927	116.601	131.015	117.742	75.641	22.121	1.855
116.5	1.713	21.408	73.357	114.745	128.874	115.744	74.213	21.550	1.855
117.0	1.713	20.694	71.787	112.605	126.591	113.604	72.643	20.837	1.855
117.5	1.713	19.981	70.360	110.749	124.593	111.605	71.074	20.123	1.855
118.0	1.713	19.410	69.076	108.608	122.452	109.607	69.646	19.410	1.855
118.5	1.713	18.696	67.648	106.753	120.454	107.609	68.219	18.839	1.855
119.0	1.713	18.125	66.221	104.898	118.313	105.754	66.792	18.125	1.855
119.5	1.713	17.412	64.794	103.042	116.172	103.899	65.365	17.554	1.855
120.0	1.713	16.841	63.367	100.902	114.174	101.758	63.795	16.841	1.855
120.5	1.713	16.270	61.940	99.332	112.034	99.903	62.510	16.270	1.998
121.0	1.713	15.556	60.655	97.334	109.893	98.047	61.083	15.699	1.998
121.5	1.713	14.843	59.371	95.478	108.180	96.192	59.799	14.985	1.998
122.0	1.713	14.272	58.086	93.623	105.897	94.337	58.514	14.415	1.998
122.5	1.713	13.701	56.659	91.768	104.041	92.339	57.230	13.844	1.998
123.0	1.713	13.130	55.375	90.055	102.043	90.626	55.803	13.273	1.998
123.5	1.713	12.559	54.090	88.200	100.045	88.913	54.518	12.702	1.998
124.0	1.713	11.988	52.948	86.344	98.190	87.058	53.234	12.131	1.998
124.5	1.713	11.417	51.664	84.632	96.335	85.060	51.949	11.560	2.141
125.0	1.713	10.847	50.379	82.919	94.479	83.347	50.665	10.989	2.141
125.5	1.713	10.276	49.095	81.207	92.481	81.635	49.380	10.418	2.141
126.0	1.713	9.848	47.811	79.637	90.626	79.922	48.096	9.848	2.141
126.5	1.713	9.277	46.669	77.924	88.771	78.209	46.954	9.277	2.141
127.0	1.713	8.706	45.527	76.211	86.773	76.497	45.812	8.849	2.141
127.5	1.713	8.278	44.385	74.642	85.060	74.784	44.528	8.278	2.141
128.0	1.713	7.707	43.101	72.929	83.347	73.357	43.386	7.849	2.283
128.5	1.713	7.279	41.816	71.359	81.635	71.787	42.245	7.421	2.283
129.0	1.713	6.850	40.675	69.646	79.779	70.075	41.103	6.993	2.283
129.5	1.713	6.565	39.676	68.076	78.067	68.505	39.961	6.708	2.283
130.0	1.855	6.137	38.677	66.507	76.354	66.935	38.962	6.280	2.283
130.5	1.855	5.851	37.392	65.079	74.642	65.508	37.820	5.994	2.426
131.0	1.855	5.566	36.393	63.652	72.929	63.795	36.679	5.709	2.426
131.5	1.855	5.281	35.394	62.082	71.216	62.368	35.680	5.423	2.426
132.0	1.855	4.995	34.252	60.655	69.504	60.798	34.538	5.138	2.426
132.5	1.855	4.710	33.253	59.085	67.934	59.371	33.539	4.852	2.426
133.0	1.855	4.567	32.254	57.515	66.364	57.801	32.540	4.710	2.569
133.5	1.855	4.424	31.113	56.088	64.651	56.374	31.398	4.567	2.569
134.0	1.855	4.282	29.971	54.661	63.224	54.804	30.399	4.424	2.569
134.5	1.855	4.139	28.829	53.234	61.511	53.377	29.400	4.282	2.569
135.0	1.855	3.996	27.687	51.807	59.942	51.949	28.401	4.139	2.569
135.5	1.855	3.853	26.688	50.237	58.372	50.522	27.402	3.996	2.569
136.0	1.855	3.711	25.547	48.810	56.802	49.095	26.403	3.853	2.569
136.5	1.855	3.711	24.547	47.525	55.232	47.668	25.547	3.853	2.712
137.0	1.855	3.568	23.406	46.241	53.662	46.241	24.547	3.711	2.712
137.5	1.855	3.568	22.407	44.813	52.235	44.956	23.548	3.711	2.712
138.0	1.855	3.425	21.408	43.386	50.808	43.529	22.692	3.568	2.712
138.5	1.855	3.425	20.551	42.102	49.380	42.245	21.836	3.568	2.712

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

CANDELA TABULATION - (Cont.)

139.0	1.998	3.425	19.552	40.817	47.953	40.817	20.980	3.425	2.854
139.5	1.998	3.283	18.553	39.533	46.526	39.676	20.123	3.425	2.854
140.0	1.998	3.283	17.697	38.248	45.099	38.248	19.124	3.425	2.854
140.5	1.998	3.283	16.841	36.821	43.672	36.964	18.268	3.283	2.854
141.0	1.998	3.140	16.127	35.680	42.245	35.680	17.412	3.283	2.854
141.5	1.998	3.140	15.271	34.395	40.817	34.538	16.555	3.283	2.997
142.0	1.998	3.140	14.557	33.253	39.533	33.253	15.699	3.283	2.997
142.5	1.998	2.997	13.844	31.969	38.106	31.969	14.843	3.140	2.997
143.0	1.998	2.997	13.130	30.827	36.821	30.684	14.129	3.140	2.997
143.5	2.141	2.997	12.416	29.543	35.537	29.543	13.273	3.140	2.997
144.0	2.141	2.997	11.703	28.401	34.110	28.401	12.559	2.997	2.997
144.5	2.141	2.997	10.989	27.259	32.825	27.116	11.703	2.997	3.140
145.0	2.141	2.854	10.418	25.975	31.541	25.975	10.989	2.997	3.140
145.5	2.141	2.854	9.705	24.833	30.256	24.833	10.276	2.997	3.140
146.0	2.141	2.854	9.134	23.834	28.972	23.691	9.562	2.997	3.140
146.5	2.141	2.854	8.563	22.692	27.687	22.549	8.991	2.997	3.140
147.0	2.141	2.854	7.992	21.550	26.546	21.408	8.420	2.854	3.140
147.5	2.141	2.854	7.421	20.409	25.261	20.409	7.849	2.854	3.283
148.0	2.283	2.854	6.993	19.267	24.119	19.267	7.421	2.854	3.283
148.5	2.283	2.854	6.565	18.125	22.835	18.268	6.993	2.854	3.283
149.0	2.283	2.854	6.280	16.841	21.693	17.126	6.565	2.854	3.283
149.5	2.283	2.854	5.851	15.842	20.551	16.127	6.280	2.854	3.283
150.0	2.283	2.854	5.566	14.700	19.410	15.128	5.994	2.997	3.283
150.5	2.283	2.854	5.423	13.701	18.268	14.129	5.709	2.854	3.425
151.0	2.283	2.854	5.138	12.702	17.126	13.130	5.423	2.854	3.425
151.5	2.426	2.854	4.995	11.846	16.127	12.274	5.281	2.997	3.425
152.0	2.426	2.997	4.852	10.847	14.985	11.275	4.995	2.997	3.425
152.5	2.426	2.997	4.710	10.133	13.986	10.418	4.852	2.997	3.425
153.0	2.426	2.997	4.567	9.419	12.845	9.562	4.710	2.997	3.425
153.5	2.426	2.997	4.424	8.706	11.846	8.849	4.567	2.997	3.425
154.0	2.426	2.997	4.282	7.992	10.847	8.278	4.424	2.997	3.568
154.5	2.569	2.997	4.139	7.421	9.990	7.564	4.282	2.997	3.568
155.0	2.569	2.997	3.996	6.850	9.134	6.993	4.139	2.997	3.568
155.5	2.569	3.140	3.996	6.422	8.420	6.565	4.139	2.997	3.568
156.0	2.569	3.140	3.853	5.994	7.707	6.137	3.996	3.140	3.568
156.5	2.712	3.140	3.853	5.566	7.136	5.709	3.853	3.140	3.568
157.0	2.712	3.140	3.711	5.281	6.565	5.423	3.853	3.140	3.568
157.5	2.712	3.140	3.711	5.138	5.994	5.138	3.711	3.140	3.568
158.0	2.712	3.140	3.568	4.852	5.709	4.852	3.711	3.140	3.711
158.5	2.712	3.283	3.568	4.710	5.281	4.710	3.568	3.140	3.711
159.0	2.854	3.283	3.425	4.424	4.995	4.424	3.568	3.283	3.711
159.5	2.854	3.283	3.425	4.282	4.710	4.282	3.425	3.283	3.711
160.0	2.854	3.283	3.425	4.139	4.567	4.139	3.425	3.283	3.711
160.5	2.854	3.283	3.283	3.996	4.282	3.996	3.425	3.283	3.711
161.0	2.854	3.283	3.283	3.853	4.139	3.853	3.283	3.283	3.711
161.5	2.997	3.283	3.283	3.853	3.996	3.853	3.283	3.283	3.711
162.0	2.997	3.425	3.283	3.711	3.853	3.711	3.283	3.283	3.711
162.5	2.997	3.425	3.283	3.568	3.711	3.568	3.283	3.425	3.711
163.0	2.997	3.425	3.283	3.425	3.568	3.568	3.283	3.425	3.853
163.5	2.997	3.425	3.283	3.425	3.425	3.425	3.283	3.425	3.853
164.0	3.140	3.425	3.283	3.283	3.425	3.283	3.283	3.425	3.853
164.5	3.140	3.425	3.283	3.283	3.283	3.283	3.283	3.425	3.853
165.0	3.140	3.568	3.283	3.283	3.283	3.283	3.283	3.425	3.853
165.5	3.140	3.568	3.283	3.283	3.140	3.283	3.283	3.568	3.853
166.0	3.283	3.568	3.425	3.283	3.140	3.140	3.425	3.568	3.853
166.5	3.283	3.568	3.425	3.283	3.140	3.140	3.425	3.568	3.853

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

CANDELA TABULATION - (Cont.)

167.0	3.283	3.568	3.425	3.140	2.997	3.140	3.425	3.568	3.853
167.5	3.283	3.568	3.425	3.140	2.997	3.140	3.425	3.568	3.853
168.0	3.283	3.568	3.425	3.140	2.997	3.140	3.425	3.568	3.853
168.5	3.425	3.711	3.425	3.140	2.997	3.140	3.425	3.568	3.853
169.0	3.425	3.711	3.425	3.283	2.997	3.283	3.425	3.711	3.853
169.5	3.425	3.711	3.425	3.283	2.997	3.283	3.425	3.711	3.853
170.0	3.425	3.711	3.425	3.283	2.997	3.140	3.425	3.711	3.853
170.5	3.425	3.711	3.425	3.283	2.997	3.283	3.425	3.711	3.853
171.0	3.425	3.711	3.568	3.283	2.997	3.283	3.425	3.711	3.853
171.5	3.425	3.711	3.568	3.283	2.997	3.283	3.568	3.711	3.853
172.0	3.425	3.711	3.568	3.283	2.997	3.283	3.568	3.711	3.853
172.5	3.568	3.711	3.568	3.283	3.140	3.283	3.568	3.711	3.853
173.0	3.568	3.711	3.568	3.283	3.140	3.283	3.568	3.711	3.853
173.5	3.568	3.711	3.568	3.283	3.140	3.283	3.568	3.711	3.853
174.0	3.568	3.711	3.568	3.283	3.140	3.283	3.568	3.711	3.853
174.5	3.568	3.711	3.568	3.283	3.140	3.283	3.568	3.711	3.853
175.0	3.568	3.711	3.568	3.283	3.140	3.283	3.568	3.711	3.853
175.5	3.711	3.711	3.568	3.283	3.140	3.283	3.568	3.711	3.853
176.0	3.711	3.711	3.568	3.283	3.140	3.283	3.568	3.711	3.853
176.5	3.711	3.711	3.568	3.425	3.140	3.283	3.568	3.711	3.853
177.0	3.711	3.853	3.568	3.425	3.140	3.283	3.568	3.853	3.853
177.5	3.711	3.853	3.568	3.425	3.140	3.283	3.568	3.853	3.853
178.0	3.711	3.853	3.568	3.425	3.140	3.425	3.568	3.853	3.853
178.5	3.711	3.853	3.568	3.425	3.140	3.425	3.568	3.853	3.853
179.0	3.853	3.853	3.568	3.425	3.140	3.425	3.711	3.853	3.853
179.5	3.853	3.853	3.568	3.425	3.140	3.425	3.568	3.853	3.853
180.0	3.568	3.568	3.568	3.568	3.568	3.568	3.568	3.568	3.568

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	668.11	N.A.	11.40
0-30	1403.44	N.A.	24.00
0-40	2275.46	N.A.	38.80
0-60	4005.57	N.A.	68.40
0-80	5162.53	N.A.	88.10
0-90	5437.6	N.A.	92.80
10-90	5263.51	N.A.	89.80
20-40	1607.34	N.A.	27.40
20-50	2506.49	N.A.	42.80
40-70	2410.61	N.A.	41.10
60-80	1156.96	N.A.	19.70
70-80	476.46	N.A.	8.10
80-90	275.08	N.A.	4.70
90-110	269.68	N.A.	4.60
90-120	342.53	N.A.	5.80
90-130	386.16	N.A.	6.60
90-150	417.97	N.A.	7.10
90-180	421.88	N.A.	7.20
110-180	152.20	N.A.	2.60
0-180	5859.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.09
10-20	494.02
20-30	735.32
30-40	872.02
40-50	899.14
50-60	830.97
60-70	680.49
70-80	476.46
80-90	275.08
90-100	159.29
100-110	110.39
110-120	72.85
120-130	43.63
130-140	22.61
140-150	9.20
150-160	2.60
160-170	0.97
170-180	0.33

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_4000K_.IES

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	100	96	91	102	97	93	89	92	88	85	87	84	81	82	79	77	75
2	96	87	80	73	92	84	78	72	80	74	69	75	71	66	71	67	64	61
3	87	76	67	61	84	74	66	60	70	63	58	66	60	56	63	58	54	51
4	80	67	58	51	77	65	57	50	62	55	49	59	52	47	56	50	46	44
5	73	60	51	44	70	58	50	43	55	48	42	53	46	41	50	44	40	38
6	67	54	45	38	65	53	44	38	50	42	37	48	41	36	45	40	35	33
7	63	49	40	34	60	48	39	33	45	38	33	43	37	32	41	36	31	29
8	58	44	36	30	56	43	35	30	42	34	29	40	33	28	38	32	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	24	49	37	29	24	35	28	24	34	28	23	33	27	23	21

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_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

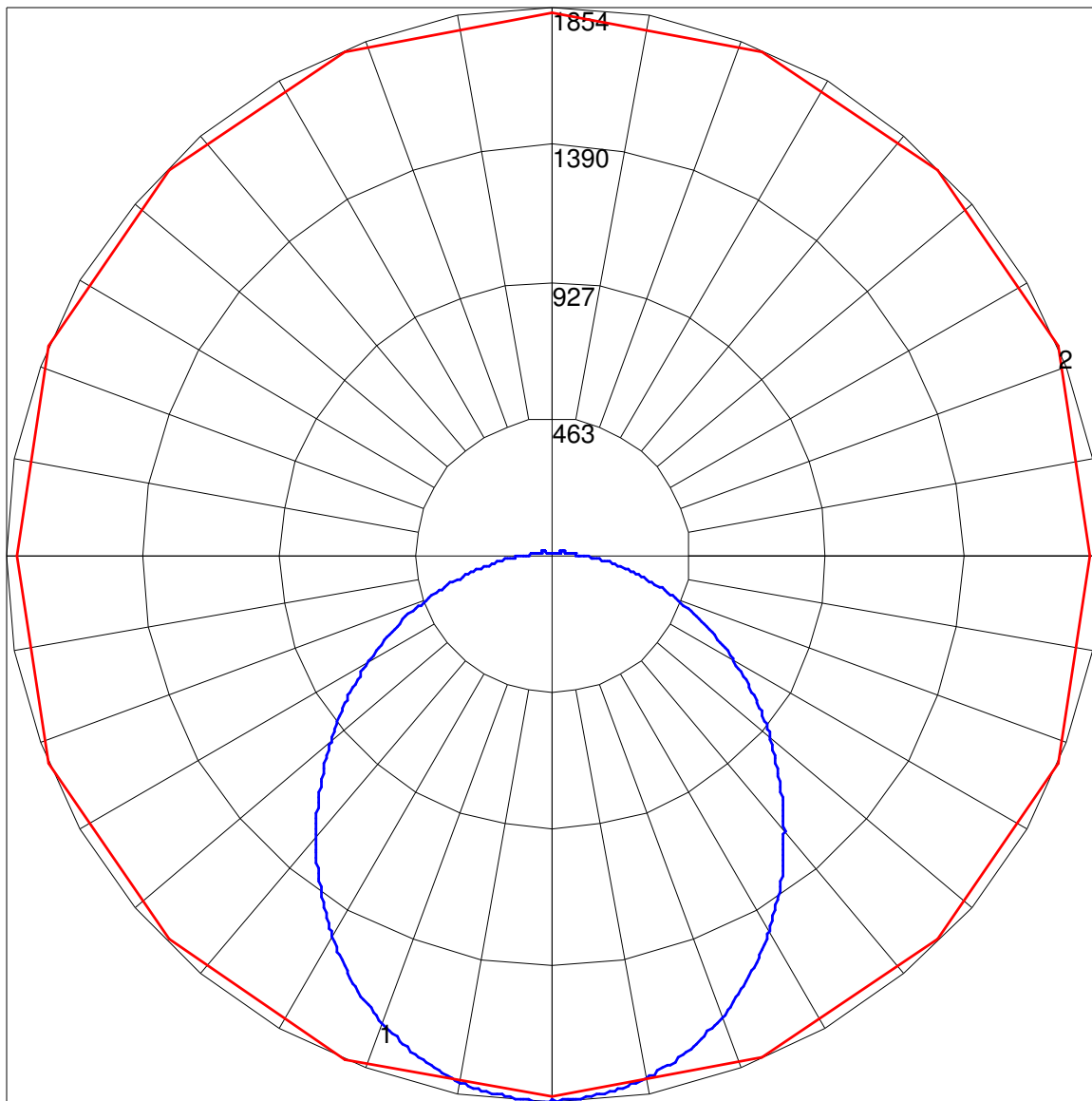
X=2H	Y=2H	20.9	22.5	21.4	22.9	23.4	23.4	24.9	23.8	25.4	25.8
	3H	22.4	23.8	22.9	24.3	24.8	25.8	27.2	26.3	27.6	28.2
	4H	22.9	24.2	23.4	24.7	25.2	26.9	28.2	27.4	28.7	29.3
	6H	23.2	24.4	23.7	24.9	25.5	28.0	29.3	28.6	29.8	30.3
	8H	23.3	24.4	23.8	25.0	25.5	28.6	29.8	29.2	30.3	30.9
	12H	23.3	24.4	23.8	24.9	25.5	29.2	30.4	29.8	30.9	31.5

UGR Viewed Endwise

4H	2H	21.9	23.2	22.4	23.7	24.2	23.8	25.1	24.3	25.6	26.1
	3H	23.6	24.7	24.1	25.3	25.8	26.5	27.6	27.0	28.1	28.7
	4H	24.2	25.2	24.7	25.8	26.4	27.7	28.8	28.3	29.3	29.9
	6H	24.6	25.5	25.2	26.1	26.7	29.1	30.0	29.6	30.5	31.1
	8H	24.7	25.6	25.3	26.2	26.8	29.7	30.6	30.3	31.1	31.8
	12H	24.8	25.6	25.4	26.2	26.8	30.5	31.2	31.0	31.8	32.5
8H	4H	24.9	25.8	25.5	26.3	26.9	27.9	28.8	28.5	29.4	30.0
	6H	25.5	26.2	26.1	26.8	27.5	29.4	30.2	30.0	30.8	31.4
	8H	25.7	26.4	26.3	27.0	27.6	30.3	30.9	30.9	31.5	32.1
	12H	25.8	26.4	26.5	27.0	27.7	31.2	31.7	31.8	32.3	33.0
12H	4H	25.1	25.9	25.7	26.5	27.1	27.9	28.7	28.5	29.3	29.9
	6H	25.8	26.5	26.4	27.0	27.7	29.5	30.1	30.1	30.7	31.4
	8H	26.1	26.7	26.7	27.3	28.0	30.3	30.9	30.9	31.5	32.2

Maximum UGR = 33.0

POLAR GRAPH



Maximum Candela = 1853.907 Located At Horizontal Angle = 157.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)