

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_5000K_.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_5000K_

[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	5799
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	41.8
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	24997	23653	24519
55	22753	21898	23329
65	20044	19976	22067
75	16505	17909	20515
85	11413	16487	19526

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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	1825.037	1825.037	1825.037	1825.037	1825.037	1825.037	1825.037	1825.037	1825.037
0.5	1801.023	1832.099	1827.862	1827.862	1819.386	1829.274	1827.862	1834.925	1802.436
1.0	1799.610	1830.687	1825.037	1829.274	1817.974	1829.274	1825.037	1833.512	1802.436
1.5	1802.436	1830.687	1822.211	1827.862	1819.386	1829.274	1825.037	1832.099	1802.436
2.0	1802.436	1829.274	1825.037	1829.274	1817.974	1832.099	1825.037	1833.512	1801.023
2.5	1801.023	1827.862	1822.211	1827.862	1817.974	1826.449	1825.037	1830.687	1798.198
3.0	1796.785	1827.862	1820.799	1827.862	1817.974	1827.862	1823.624	1832.099	1798.198
3.5	1798.198	1825.037	1819.386	1823.624	1815.149	1825.037	1822.211	1827.862	1799.610
4.0	1793.960	1822.211	1816.561	1825.037	1816.561	1823.624	1820.799	1829.274	1795.373
4.5	1795.373	1817.974	1816.561	1822.211	1813.736	1823.624	1817.974	1826.449	1792.548
5.0	1788.310	1816.561	1812.323	1820.799	1813.736	1822.211	1816.561	1823.624	1792.548
5.5	1786.897	1816.561	1810.911	1819.386	1813.736	1820.799	1816.561	1820.799	1788.310
6.0	1784.072	1812.323	1808.086	1817.974	1809.498	1817.974	1812.323	1820.799	1786.897
6.5	1781.247	1809.498	1806.673	1813.736	1806.673	1816.561	1810.911	1817.974	1784.072
7.0	1777.009	1805.261	1803.848	1809.498	1803.848	1813.736	1809.498	1816.561	1785.485
7.5	1775.597	1803.848	1799.610	1809.498	1801.023	1810.911	1805.261	1813.736	1779.834
8.0	1772.772	1799.610	1796.785	1805.261	1801.023	1809.498	1803.848	1810.911	1777.009
8.5	1768.534	1795.373	1792.548	1801.023	1795.373	1805.261	1801.023	1806.673	1771.359
9.0	1765.709	1791.135	1786.897	1799.610	1792.548	1801.023	1796.785	1805.261	1768.534
9.5	1757.233	1786.897	1786.897	1796.785	1789.722	1799.610	1793.960	1799.610	1764.296
10.0	1755.821	1785.485	1779.834	1788.310	1788.310	1795.373	1791.135	1796.785	1762.884
10.5	1745.933	1777.009	1777.009	1788.310	1781.247	1792.548	1786.897	1791.135	1755.821
11.0	1744.520	1775.597	1772.772	1782.660	1778.422	1788.310	1779.834	1784.072	1755.821
11.5	1738.870	1768.534	1767.121	1778.422	1775.597	1782.660	1777.009	1782.660	1748.758
12.0	1733.220	1762.884	1764.296	1774.184	1769.946	1779.834	1771.359	1777.009	1741.695
12.5	1726.157	1757.233	1758.646	1771.359	1769.946	1772.772	1767.121	1769.946	1738.870
13.0	1723.332	1754.408	1751.583	1765.709	1764.296	1769.946	1762.884	1767.121	1730.395
13.5	1719.094	1747.345	1748.758	1758.646	1758.646	1764.296	1758.646	1762.884	1724.744
14.0	1710.619	1740.283	1741.695	1754.408	1752.996	1760.059	1751.583	1757.233	1719.094
14.5	1700.731	1733.220	1734.632	1748.758	1747.345	1752.996	1747.345	1751.583	1714.856
15.0	1696.493	1728.982	1731.807	1745.933	1741.695	1748.758	1740.283	1744.520	1707.794
15.5	1690.843	1724.744	1723.332	1738.870	1736.045	1741.695	1736.045	1737.457	1702.143
16.0	1686.605	1714.856	1717.681	1734.632	1728.982	1736.045	1727.569	1731.807	1692.255
16.5	1673.892	1709.206	1709.206	1728.982	1723.332	1730.395	1720.507	1724.744	1690.843
17.0	1666.829	1702.143	1704.968	1721.919	1717.681	1721.919	1714.856	1719.094	1680.955
17.5	1659.766	1693.668	1696.493	1713.444	1710.619	1714.856	1706.381	1713.444	1676.717
18.0	1655.529	1683.780	1688.018	1704.968	1704.968	1706.381	1700.731	1702.143	1668.242
18.5	1647.053	1678.130	1680.955	1700.731	1697.906	1700.731	1692.255	1696.493	1661.179
19.0	1635.753	1669.654	1672.479	1692.255	1689.430	1693.668	1686.605	1688.018	1652.703
19.5	1630.102	1662.591	1665.417	1685.192	1680.955	1685.192	1679.542	1680.955	1642.815
20.0	1621.627	1652.703	1656.941	1676.717	1673.892	1679.542	1671.067	1672.479	1635.753
20.5	1611.739	1644.228	1649.878	1669.654	1666.829	1669.654	1664.004	1664.004	1628.690
21.0	1604.676	1635.753	1639.990	1659.766	1658.354	1664.004	1652.703	1658.354	1617.389
21.5	1593.376	1627.277	1631.515	1651.291	1652.703	1656.941	1647.053	1648.466	1610.326
22.0	1586.313	1620.214	1624.452	1642.815	1644.228	1647.053	1638.578	1639.990	1601.851
22.5	1573.600	1607.501	1614.564	1635.753	1638.578	1642.815	1630.102	1630.102	1590.550
23.0	1565.124	1599.026	1606.089	1625.865	1630.102	1632.927	1623.040	1621.627	1584.900
23.5	1558.061	1589.138	1599.026	1618.802	1624.452	1628.690	1614.564	1613.152	1575.012
24.0	1543.936	1580.662	1589.138	1610.326	1615.977	1620.214	1606.089	1600.438	1560.887
24.5	1538.285	1572.187	1579.250	1603.264	1608.914	1613.152	1596.201	1591.963	1552.411
25.0	1526.985	1558.061	1570.775	1596.201	1604.676	1606.089	1587.725	1583.488	1543.936
25.5	1514.272	1549.586	1558.061	1589.138	1597.613	1597.613	1580.662	1575.012	1535.460
26.0	1502.971	1541.111	1549.586	1577.837	1589.138	1589.138	1570.775	1565.124	1522.747
26.5	1493.083	1528.398	1541.111	1572.187	1582.075	1580.662	1560.887	1553.824	1514.272

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27.0	1484.608	1518.510	1532.635	1562.299	1570.775	1572.187	1550.999	1543.936	1502.971
27.5	1471.895	1510.034	1522.747	1555.236	1563.712	1562.299	1542.523	1534.048	1491.671
28.0	1462.007	1495.908	1510.034	1546.761	1556.649	1553.824	1531.223	1522.747	1481.783
28.5	1452.119	1486.021	1501.559	1536.873	1548.173	1545.348	1522.747	1512.859	1471.895
29.0	1440.818	1474.720	1491.671	1528.398	1539.698	1535.460	1512.859	1502.971	1459.182
29.5	1429.518	1464.832	1481.783	1518.510	1529.810	1526.985	1504.384	1490.258	1447.881
30.0	1415.392	1453.531	1471.895	1508.622	1521.335	1518.510	1493.083	1480.370	1435.168
30.5	1404.233	1442.231	1460.594	1500.146	1512.859	1508.622	1483.195	1469.070	1423.868
31.0	1392.367	1429.518	1450.706	1490.258	1504.384	1500.146	1471.895	1457.769	1415.392
31.5	1383.468	1416.805	1440.818	1480.370	1494.496	1491.671	1463.419	1446.469	1400.136
32.0	1368.636	1408.047	1429.518	1471.895	1486.021	1483.195	1453.531	1435.168	1389.683
32.5	1359.031	1395.334	1418.217	1462.007	1477.545	1473.307	1440.818	1422.455	1379.937
33.0	1345.188	1384.033	1405.787	1453.531	1470.482	1464.832	1429.518	1410.024	1364.116
33.5	1332.757	1372.026	1395.192	1445.056	1460.594	1453.531	1419.630	1399.148	1354.087
34.0	1321.456	1360.161	1387.000	1433.756	1452.119	1445.056	1410.589	1388.553	1343.775
34.5	1308.320	1346.883	1374.993	1423.868	1443.643	1435.168	1399.430	1374.286	1329.367
35.0	1298.008	1335.441	1364.964	1415.392	1433.756	1425.280	1388.836	1363.268	1319.903
35.5	1285.153	1322.304	1354.934	1406.210	1426.693	1415.392	1376.829	1349.990	1304.647
36.0	1270.039	1308.743	1342.786	1396.181	1416.805	1407.764	1365.529	1338.266	1294.476
36.5	1256.902	1297.019	1333.463	1385.728	1408.471	1397.453	1355.076	1325.977	1282.752
37.0	1246.732	1283.600	1320.750	1377.818	1399.854	1388.130	1343.351	1313.687	1273.005
37.5	1233.171	1272.582	1310.438	1367.506	1390.672	1376.970	1333.887	1302.387	1260.716
38.0	1218.622	1259.727	1298.714	1358.324	1381.632	1367.082	1322.587	1290.804	1246.167
38.5	1206.897	1246.873	1289.250	1348.013	1371.461	1357.336	1310.156	1279.362	1232.323
39.0	1192.772	1233.171	1277.384	1337.983	1361.856	1347.165	1300.268	1268.344	1218.904
39.5	1179.352	1219.328	1266.649	1327.530	1353.098	1337.277	1288.261	1255.913	1203.225
40.0	1164.944	1208.169	1255.490	1317.925	1344.905	1328.378	1277.102	1244.472	1188.534
40.5	1152.796	1195.455	1244.472	1307.755	1334.028	1318.208	1266.084	1229.922	1174.691
41.0	1137.399	1181.189	1232.747	1298.432	1323.152	1308.320	1254.783	1217.068	1160.848
41.5	1124.686	1167.204	1223.142	1288.826	1315.806	1297.160	1242.635	1201.671	1146.863
42.0	1109.995	1154.774	1210.852	1278.232	1306.059	1289.250	1231.476	1187.121	1134.291
42.5	1096.858	1141.495	1199.128	1268.909	1296.737	1277.949	1218.904	1174.126	1120.448
43.0	1082.733	1129.771	1187.828	1258.315	1287.131	1267.073	1208.310	1158.587	1106.605
43.5	1070.443	1117.623	1175.962	1247.720	1278.514	1256.620	1197.857	1144.886	1094.457
44.0	1058.436	1103.215	1164.944	1238.398	1268.768	1247.579	1185.002	1130.195	1079.907
44.5	1041.627	1089.654	1151.383	1227.521	1259.021	1237.974	1175.397	1117.199	1067.053
45.0	1029.338	1076.235	1142.060	1217.633	1249.416	1225.826	1164.238	1102.509	1053.775
45.5	1016.624	1063.098	1128.924	1207.180	1237.832	1216.785	1152.513	1090.643	1040.497
46.0	1002.640	1051.939	1118.047	1195.738	1228.227	1207.039	1141.495	1076.659	1025.524
46.5	990.351	1038.661	1105.899	1184.014	1219.045	1195.173	1130.195	1064.087	1013.234
47.0	975.943	1024.394	1094.457	1175.680	1208.875	1186.980	1119.742	1051.091	1000.521
47.5	961.817	1011.680	1082.733	1163.955	1199.834	1176.951	1108.300	1037.672	984.277
48.0	950.799	998.544	1071.997	1155.621	1188.251	1164.096	1097.141	1024.111	973.259
48.5	935.402	985.407	1060.414	1142.767	1179.070	1154.632	1085.558	1011.115	957.014
49.0	926.361	974.389	1049.679	1133.020	1168.899	1144.321	1073.551	998.544	944.301
49.5	914.213	959.698	1038.237	1122.708	1157.881	1134.433	1058.860	984.559	931.729
50.0	899.946	948.397	1026.795	1112.114	1148.841	1123.838	1048.266	971.140	920.852
50.5	885.821	938.368	1012.811	1101.379	1138.670	1112.820	1036.118	958.568	908.846
51.0	872.543	926.079	1003.205	1090.502	1129.206	1102.226	1022.699	944.725	893.307
51.5	859.406	913.790	990.633	1081.179	1120.448	1091.773	1010.974	936.673	879.888
52.0	845.563	900.088	980.180	1070.867	1109.430	1081.461	998.261	923.819	865.621
52.5	832.850	887.657	968.456	1059.990	1099.118	1070.585	987.102	912.377	852.625
53.0	818.583	873.955	956.167	1049.679	1088.524	1061.403	975.660	898.534	839.912
53.5	805.728	861.242	944.725	1038.661	1077.930	1050.102	962.947	885.256	825.080
54.0	791.744	849.377	934.413	1027.925	1066.629	1039.508	952.635	872.260	810.672
54.5	778.183	835.533	926.079	1016.059	1057.871	1029.479	940.205	858.699	797.818

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55.0	763.634	822.538	915.202	1005.889	1047.277	1018.037	933.142	846.410	783.551
55.5	750.356	810.955	903.195	994.306	1035.835	1007.160	922.124	833.415	769.425
56.0	737.077	796.829	891.330	983.005	1026.230	996.990	909.976	819.995	756.853
56.5	724.364	783.692	879.464	972.835	1014.364	983.994	897.263	805.587	742.445
57.0	710.521	770.414	868.022	961.252	1004.194	973.259	885.397	793.015	727.331
57.5	697.526	758.407	857.287	950.516	992.046	961.534	873.249	778.889	714.053
58.0	684.812	745.129	844.433	939.498	980.463	950.234	860.818	766.318	700.633
58.5	671.111	731.992	832.567	931.870	969.727	940.911	849.094	753.181	686.366
59.0	658.539	719.279	821.973	923.678	959.274	931.870	836.240	739.196	673.794
59.5	644.978	706.849	809.542	910.399	947.409	921.276	824.798	726.907	659.386
60.0	631.982	694.277	796.688	899.381	940.487	909.552	812.509	714.053	647.238
60.5	618.846	681.422	784.681	889.352	930.317	898.251	801.632	700.209	632.265
61.0	604.579	668.709	773.522	876.639	919.864	886.103	789.060	688.344	618.987
61.5	591.724	655.855	762.221	864.915	908.846	874.520	777.618	674.218	605.567
62.0	578.587	643.283	750.638	853.897	896.556	864.067	764.481	661.788	591.866
62.5	565.592	630.994	739.055	842.455	884.549	851.354	753.463	648.510	578.587
63.0	553.020	618.139	727.331	831.013	873.249	840.195	741.315	636.079	565.592
63.5	539.742	606.133	715.465	818.724	862.090	828.471	728.885	623.083	552.596
64.0	526.040	593.561	704.165	807.282	850.507	817.170	717.443	610.229	538.471
64.5	511.914	580.989	691.593	795.275	838.076	806.293	705.012	597.798	525.334
65.0	499.625	569.406	679.869	783.833	826.634	793.863	693.712	585.085	512.056
65.5	487.336	556.834	668.285	773.239	816.040	782.421	682.411	572.372	499.201
66.0	473.916	544.403	657.267	759.961	804.174	770.273	669.698	559.518	485.923
66.5	462.192	532.397	645.119	749.084	791.744	758.407	658.539	546.946	472.927
67.0	449.338	520.672	633.395	737.219	780.302	745.835	645.826	534.798	460.638
67.5	437.189	508.524	622.236	724.788	767.871	734.676	635.090	522.791	448.066
68.0	424.618	496.800	609.664	714.476	756.571	723.093	622.801	510.360	435.918
68.5	412.328	485.217	598.928	701.622	744.847	710.521	610.794	498.212	422.358
69.0	400.039	472.645	587.345	691.169	732.981	699.503	599.211	486.771	410.351
69.5	387.043	460.921	575.904	678.738	720.974	687.920	588.052	474.481	396.931
70.0	375.319	449.338	563.897	667.297	708.967	675.348	575.904	461.909	384.925
70.5	363.595	436.907	552.737	655.149	697.384	664.330	564.321	449.761	372.776
71.0	350.740	425.889	541.437	644.413	685.660	652.465	553.020	437.755	360.205
71.5	339.157	414.023	530.843	632.830	673.936	641.588	541.013	425.889	347.774
72.0	327.151	403.288	518.695	620.541	662.070	629.440	530.278	414.588	334.778
72.5	315.285	391.705	507.818	609.381	651.052	618.422	518.553	402.440	322.630
73.0	303.278	380.828	496.235	597.233	638.904	605.991	507.394	390.716	311.612
73.5	291.978	369.810	485.358	585.227	626.756	594.549	496.235	379.274	299.323
74.0	280.395	358.368	474.481	575.056	615.597	582.966	484.652	367.832	287.740
74.5	268.105	346.785	462.616	563.049	603.449	571.807	474.199	355.967	275.451
75.0	256.381	336.191	452.021	552.314	592.713	559.942	463.322	345.090	264.291
75.5	245.787	325.455	441.710	540.448	580.989	548.641	451.880	333.507	252.708
76.0	234.062	314.720	430.833	529.854	569.547	537.764	441.568	322.913	241.266
76.5	223.468	304.267	420.239	518.553	557.964	526.040	430.409	311.471	230.813
77.0	213.015	293.814	409.644	507.112	546.381	515.163	419.250	300.877	219.654
77.5	202.280	283.502	399.333	496.517	535.787	503.721	408.656	289.717	208.919
78.0	191.262	273.190	389.162	485.499	523.921	492.986	398.485	279.688	198.183
78.5	180.809	263.444	378.709	474.764	513.186	482.250	388.173	269.377	187.589
79.0	170.497	253.415	368.963	463.887	501.885	471.232	377.579	259.489	177.560
79.5	161.033	243.527	359.357	453.575	491.573	461.627	367.832	249.318	166.824
80.0	151.427	233.639	349.469	442.699	481.262	450.468	357.662	239.430	157.219
80.5	141.539	224.174	339.722	432.811	469.961	440.438	348.198	230.531	147.331
81.0	131.934	215.134	330.258	422.358	459.791	429.703	338.592	220.784	138.149
81.5	122.752	205.952	320.653	412.470	449.338	419.674	329.128	211.885	128.826
82.0	113.712	197.194	311.471	402.582	438.178	409.786	319.664	203.127	119.786
82.5	105.377	188.154	302.289	393.541	428.008	399.333	310.058	194.510	111.169

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CANDELA TABULATION - (Cont.)

83.0	96.478	179.679	293.249	383.653	418.402	389.445	301.442	185.894	102.552
83.5	88.144	171.486	284.350	374.048	408.232	380.263	292.119	177.560	94.218
84.0	79.951	163.434	275.733	364.584	398.626	370.940	283.785	169.367	86.025
84.5	72.041	155.524	267.116	355.684	389.021	361.476	275.027	161.456	78.397
85.0	64.696	148.178	258.500	346.361	379.698	352.012	266.410	153.829	70.487
85.5	57.350	140.409	250.589	337.180	370.234	343.254	258.217	145.636	63.142
86.0	50.005	133.205	242.679	328.846	361.052	334.496	249.742	138.290	55.655
86.5	43.083	126.142	235.051	320.229	352.294	325.455	241.973	130.804	48.451
87.0	36.162	119.221	227.141	311.895	343.395	317.263	234.345	123.741	41.247
87.5	29.805	112.723	219.795	304.267	334.920	309.211	226.434	116.819	34.325
88.0	23.590	105.660	212.874	296.498	327.151	301.301	219.230	109.756	27.404
88.5	17.375	99.586	206.517	289.435	319.240	294.096	212.450	102.835	20.341
89.0	11.159	93.794	200.585	282.513	312.319	286.751	205.811	96.761	13.702
89.5	5.509	88.992	194.934	276.157	305.397	280.395	200.161	91.393	7.204
90.0	1.978	84.613	189.990	269.942	298.758	273.897	194.934	86.732	2.260
90.5	1.271	80.940	185.188	264.009	292.119	267.540	189.708	82.776	1.271
91.0	1.271	77.832	180.385	258.217	285.904	261.890	184.340	79.669	1.130
91.5	1.271	75.572	176.288	252.567	279.971	256.381	180.244	77.267	1.130
92.0	1.271	73.595	172.051	247.623	274.603	251.437	176.288	75.290	1.130
92.5	1.271	71.758	169.084	243.103	269.377	246.634	172.898	73.453	1.130
93.0	1.271	70.063	165.977	238.724	264.433	242.255	169.791	71.617	1.130
93.5	1.271	68.368	163.151	234.910	260.195	238.159	166.824	69.922	1.130
94.0	1.271	66.814	160.468	230.955	255.957	234.345	164.282	68.227	1.130
94.5	1.271	65.261	158.066	227.565	252.143	230.813	161.598	66.532	1.130
95.0	1.271	63.707	155.665	224.174	248.471	227.000	158.914	64.978	1.130
95.5	1.271	62.294	152.981	220.784	244.374	223.751	156.371	63.566	1.130
96.0	1.271	60.882	150.721	217.394	240.843	220.219	153.829	62.153	1.130
96.5	1.271	59.469	148.178	214.286	237.311	217.112	151.145	60.599	1.130
97.0	1.271	58.057	145.918	210.755	233.639	213.439	148.885	59.187	1.130
97.5	1.271	56.644	143.376	207.930	230.107	210.472	146.483	57.915	1.130
98.0	1.271	55.373	141.115	204.540	226.858	207.224	143.941	56.503	1.130
98.5	1.271	54.243	138.997	201.573	223.609	203.975	141.680	55.090	1.130
99.0	1.271	52.830	136.454	198.748	220.360	200.867	139.279	53.819	1.130
99.5	1.271	51.559	134.335	195.782	216.970	197.901	137.019	52.547	1.130
100.0	1.271	50.429	131.934	192.815	213.721	194.934	134.618	51.276	1.130
100.5	1.271	49.157	129.815	189.849	210.331	192.109	132.499	50.146	1.271
101.0	1.271	48.169	127.696	186.883	207.365	189.284	130.380	48.875	1.271
101.5	1.271	46.897	125.436	184.057	204.398	186.176	127.979	47.745	1.271
102.0	1.413	45.908	123.458	181.232	201.008	183.634	126.001	46.615	1.271
102.5	1.413	44.778	121.340	178.548	197.759	180.950	123.741	45.485	1.271
103.0	1.413	43.790	119.221	175.723	194.793	178.125	121.622	44.355	1.271
103.5	1.413	42.660	117.102	173.322	191.968	175.300	119.644	43.225	1.271
104.0	1.413	41.671	115.265	170.779	189.143	172.616	117.384	42.094	1.271
104.5	1.413	40.682	113.147	167.813	186.459	169.932	115.407	41.106	1.413
105.0	1.413	39.693	111.310	165.412	183.351	167.389	113.429	40.117	1.413
105.5	1.413	38.704	109.474	162.869	180.667	164.564	111.452	39.128	1.413
106.0	1.413	37.716	107.496	160.185	177.983	162.021	109.333	38.139	1.413
106.5	1.413	36.868	105.660	157.925	174.876	159.479	107.496	37.292	1.413
107.0	1.554	35.879	103.824	155.382	172.474	156.795	105.519	36.303	1.413
107.5	1.554	35.032	101.846	152.698	169.932	154.394	103.824	35.455	1.413
108.0	1.554	34.184	100.010	150.580	167.248	151.992	101.987	34.608	1.413
108.5	1.554	33.195	98.456	148.037	164.705	149.732	100.010	33.619	1.554
109.0	1.554	32.348	96.620	145.636	162.163	147.331	98.173	32.772	1.554
109.5	1.554	31.500	94.783	143.234	159.761	144.929	96.478	31.924	1.554
110.0	1.554	30.794	93.229	140.974	157.219	142.528	94.783	31.076	1.554
110.5	1.554	29.946	91.534	138.855	154.676	140.127	92.947	30.229	1.554

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CANDELA TABULATION - (Cont.)

111.0	1.554	29.099	89.839	136.595	152.416	138.149	91.252	29.523	1.554
111.5	1.695	28.393	88.285	134.476	150.015	135.748	89.415	28.675	1.554
112.0	1.695	27.545	86.590	132.075	147.755	133.488	87.862	27.828	1.554
112.5	1.695	26.839	84.895	130.239	145.353	131.369	86.167	27.121	1.695
113.0	1.695	26.132	83.483	127.837	142.952	129.250	84.472	26.274	1.695
113.5	1.695	25.426	81.646	125.718	140.550	126.849	82.918	25.567	1.695
114.0	1.695	24.579	80.234	123.741	138.573	124.730	81.364	24.861	1.695
114.5	1.695	23.872	78.680	121.622	136.171	122.752	79.669	24.014	1.695
115.0	1.695	23.307	77.126	119.644	134.053	120.633	77.974	23.307	1.695
115.5	1.695	22.460	75.572	117.667	131.793	118.514	76.420	22.601	1.695
116.0	1.695	21.895	74.160	115.407	129.674	116.537	74.866	21.895	1.836
116.5	1.695	21.189	72.606	113.570	127.555	114.559	73.453	21.330	1.836
117.0	1.695	20.482	71.052	111.452	125.295	112.440	71.900	20.623	1.836
117.5	1.695	19.776	69.640	109.615	123.317	110.463	70.346	19.917	1.836
118.0	1.695	19.211	68.368	107.496	121.198	108.485	68.933	19.211	1.836
118.5	1.695	18.505	66.956	105.660	119.221	106.508	67.521	18.646	1.836
119.0	1.695	17.940	65.543	103.824	117.102	104.671	66.108	17.940	1.836
119.5	1.695	17.233	64.131	101.987	114.983	102.835	64.696	17.375	1.836
120.0	1.695	16.668	62.718	99.868	113.005	100.716	63.142	16.668	1.836
120.5	1.695	16.103	61.305	98.315	110.887	98.880	61.870	16.103	1.978
121.0	1.695	15.397	60.034	96.337	108.768	97.043	60.458	15.538	1.978
121.5	1.695	14.691	58.763	94.501	107.073	95.207	59.187	14.832	1.978
122.0	1.695	14.126	57.491	92.664	104.812	93.371	57.915	14.267	1.978
122.5	1.695	13.561	56.079	90.828	102.976	91.393	56.644	13.702	1.978
123.0	1.695	12.996	54.808	89.133	100.999	89.698	55.231	13.137	1.978
123.5	1.695	12.431	53.536	87.297	99.021	88.003	53.960	12.572	1.978
124.0	1.695	11.866	52.406	85.460	97.185	86.167	52.689	12.007	1.978
124.5	1.695	11.301	51.135	83.765	95.348	84.189	51.417	11.442	2.119
125.0	1.695	10.736	49.864	82.070	93.512	82.494	50.146	10.877	2.119
125.5	1.695	10.170	48.592	80.375	91.534	80.799	48.875	10.312	2.119
126.0	1.695	9.747	47.321	78.821	89.698	79.104	47.604	9.747	2.119
126.5	1.695	9.182	46.191	77.126	87.862	77.409	46.473	9.182	2.119
127.0	1.695	8.617	45.061	75.431	85.884	75.714	45.343	8.758	2.119
127.5	1.695	8.193	43.931	73.877	84.189	74.019	44.072	8.193	2.119
128.0	1.695	7.628	42.660	72.182	82.494	72.606	42.942	7.769	2.260
128.5	1.695	7.204	41.388	70.628	80.799	71.052	41.812	7.345	2.260
129.0	1.695	6.780	40.258	68.933	78.962	69.357	40.682	6.922	2.260
129.5	1.695	6.498	39.269	67.379	77.267	67.803	39.552	6.639	2.260
130.0	1.836	6.074	38.281	65.826	75.572	66.249	38.563	6.215	2.260
130.5	1.836	5.792	37.009	64.413	73.877	64.837	37.433	5.933	2.401
131.0	1.836	5.509	36.020	63.000	72.182	63.142	36.303	5.650	2.401
131.5	1.836	5.226	35.032	61.447	70.487	61.729	35.314	5.368	2.401
132.0	1.836	4.944	33.902	60.034	68.792	60.175	34.184	5.085	2.401
132.5	1.836	4.661	32.913	58.480	67.238	58.763	33.195	4.803	2.401
133.0	1.836	4.520	31.924	56.926	65.684	57.209	32.207	4.661	2.543
133.5	1.836	4.379	30.794	55.514	63.989	55.796	31.076	4.520	2.543
134.0	1.836	4.238	29.664	54.101	62.577	54.243	30.088	4.379	2.543
134.5	1.836	4.096	28.534	52.689	60.882	52.830	29.099	4.238	2.543
135.0	1.836	3.955	27.404	51.276	59.328	51.417	28.110	4.096	2.543
135.5	1.836	3.814	26.415	49.722	57.774	50.005	27.121	3.955	2.543
136.0	1.836	3.673	25.285	48.310	56.220	48.592	26.132	3.814	2.543
136.5	1.836	3.673	24.296	47.038	54.666	47.180	25.285	3.814	2.684
137.0	1.836	3.531	23.166	45.767	53.113	45.767	24.296	3.673	2.684
137.5	1.836	3.531	22.177	44.355	51.700	44.496	23.307	3.673	2.684
138.0	1.836	3.390	21.189	42.942	50.287	43.083	22.460	3.531	2.684
138.5	1.836	3.390	20.341	41.671	48.875	41.812	21.612	3.531	2.684

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CANDELA TABULATION - (Cont.)

139.0	1.978	3.390	19.352	40.399	47.462	40.399	20.765	3.390	2.825
139.5	1.978	3.249	18.363	39.128	46.050	39.269	19.917	3.390	2.825
140.0	1.978	3.249	17.516	37.857	44.637	37.857	18.928	3.390	2.825
140.5	1.978	3.249	16.668	36.444	43.225	36.585	18.081	3.249	2.825
141.0	1.978	3.108	15.962	35.314	41.812	35.314	17.233	3.249	2.825
141.5	1.978	3.108	15.114	34.043	40.399	34.184	16.386	3.249	2.966
142.0	1.978	3.108	14.408	32.913	39.128	32.913	15.538	3.249	2.966
142.5	1.978	2.966	13.702	31.642	37.716	31.642	14.691	3.108	2.966
143.0	1.978	2.966	12.996	30.511	36.444	30.370	13.984	3.108	2.966
143.5	2.119	2.966	12.289	29.240	35.173	29.240	13.137	3.108	2.966
144.0	2.119	2.966	11.583	28.110	33.760	28.110	12.431	2.966	2.966
144.5	2.119	2.966	10.877	26.980	32.489	26.839	11.583	2.966	3.108
145.0	2.119	2.825	10.312	25.709	31.218	25.709	10.877	2.966	3.108
145.5	2.119	2.825	9.605	24.579	29.946	24.579	10.170	2.966	3.108
146.0	2.119	2.825	9.040	23.590	28.675	23.449	9.464	2.966	3.108
146.5	2.119	2.825	8.475	22.460	27.404	22.319	8.899	2.966	3.108
147.0	2.119	2.825	7.910	21.330	26.274	21.189	8.334	2.825	3.108
147.5	2.119	2.825	7.345	20.200	25.002	20.200	7.769	2.825	3.249
148.0	2.260	2.825	6.922	19.070	23.872	19.070	7.345	2.825	3.249
148.5	2.260	2.825	6.498	17.940	22.601	18.081	6.922	2.825	3.249
149.0	2.260	2.825	6.215	16.668	21.471	16.951	6.498	2.825	3.249
149.5	2.260	2.825	5.792	15.679	20.341	15.962	6.215	2.825	3.249
150.0	2.260	2.825	5.509	14.549	19.211	14.973	5.933	2.966	3.249
150.5	2.260	2.825	5.368	13.561	18.081	13.984	5.650	2.825	3.390
151.0	2.260	2.825	5.085	12.572	16.951	12.996	5.368	2.825	3.390
151.5	2.401	2.825	4.944	11.724	15.962	12.148	5.226	2.966	3.390
152.0	2.401	2.966	4.803	10.736	14.832	11.159	4.944	2.966	3.390
152.5	2.401	2.966	4.661	10.029	13.843	10.312	4.803	2.966	3.390
153.0	2.401	2.966	4.520	9.323	12.713	9.464	4.661	2.966	3.390
153.5	2.401	2.966	4.379	8.617	11.724	8.758	4.520	2.966	3.390
154.0	2.401	2.966	4.238	7.910	10.736	8.193	4.379	2.966	3.531
154.5	2.543	2.966	4.096	7.345	9.888	7.487	4.238	2.966	3.531
155.0	2.543	2.966	3.955	6.780	9.040	6.922	4.096	2.966	3.531
155.5	2.543	3.108	3.955	6.357	8.334	6.498	4.096	2.966	3.531
156.0	2.543	3.108	3.814	5.933	7.628	6.074	3.955	3.108	3.531
156.5	2.684	3.108	3.814	5.509	7.063	5.650	3.814	3.108	3.531
157.0	2.684	3.108	3.673	5.226	6.498	5.368	3.814	3.108	3.531
157.5	2.684	3.108	3.673	5.085	5.933	5.085	3.673	3.108	3.531
158.0	2.684	3.108	3.531	4.803	5.650	4.803	3.673	3.108	3.673
158.5	2.684	3.249	3.531	4.661	5.226	4.661	3.531	3.108	3.673
159.0	2.825	3.249	3.390	4.379	4.944	4.379	3.531	3.249	3.673
159.5	2.825	3.249	3.390	4.238	4.661	4.238	3.390	3.249	3.673
160.0	2.825	3.249	3.390	4.096	4.520	4.096	3.390	3.249	3.673
160.5	2.825	3.249	3.249	3.955	4.238	3.955	3.390	3.249	3.673
161.0	2.825	3.249	3.249	3.814	4.096	3.814	3.249	3.249	3.673
161.5	2.966	3.249	3.249	3.814	3.955	3.814	3.249	3.249	3.673
162.0	2.966	3.390	3.249	3.673	3.814	3.673	3.249	3.249	3.673
162.5	2.966	3.390	3.249	3.531	3.673	3.531	3.249	3.390	3.673
163.0	2.966	3.390	3.249	3.390	3.531	3.531	3.249	3.390	3.814
163.5	2.966	3.390	3.249	3.390	3.390	3.390	3.249	3.390	3.814
164.0	3.108	3.390	3.249	3.249	3.390	3.249	3.249	3.390	3.814
164.5	3.108	3.390	3.249	3.249	3.249	3.249	3.249	3.390	3.814
165.0	3.108	3.531	3.249	3.249	3.249	3.249	3.249	3.390	3.814
165.5	3.108	3.531	3.249	3.249	3.108	3.249	3.249	3.531	3.814
166.0	3.249	3.531	3.390	3.249	3.108	3.108	3.390	3.531	3.814
166.5	3.249	3.531	3.390	3.249	3.108	3.108	3.390	3.531	3.814

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CANDELA TABULATION - (Cont.)

167.0	3.249	3.531	3.390	3.108	2.966	3.108	3.390	3.531	3.814
167.5	3.249	3.531	3.390	3.108	2.966	3.108	3.390	3.531	3.814
168.0	3.249	3.531	3.390	3.108	2.966	3.108	3.390	3.531	3.814
168.5	3.390	3.673	3.390	3.108	2.966	3.108	3.390	3.531	3.814
169.0	3.390	3.673	3.390	3.249	2.966	3.249	3.390	3.673	3.814
169.5	3.390	3.673	3.390	3.249	2.966	3.249	3.390	3.673	3.814
170.0	3.390	3.673	3.390	3.249	2.966	3.108	3.390	3.673	3.814
170.5	3.390	3.673	3.390	3.249	2.966	3.249	3.390	3.673	3.814
171.0	3.390	3.673	3.531	3.249	2.966	3.249	3.390	3.673	3.814
171.5	3.390	3.673	3.531	3.249	2.966	3.249	3.531	3.673	3.814
172.0	3.390	3.673	3.531	3.249	2.966	3.249	3.531	3.673	3.814
172.5	3.531	3.673	3.531	3.249	3.108	3.249	3.531	3.673	3.814
173.0	3.531	3.673	3.531	3.249	3.108	3.249	3.531	3.673	3.814
173.5	3.531	3.673	3.531	3.249	3.108	3.249	3.531	3.673	3.814
174.0	3.531	3.673	3.531	3.249	3.108	3.249	3.531	3.673	3.814
174.5	3.531	3.673	3.531	3.249	3.108	3.249	3.531	3.673	3.814
175.0	3.531	3.673	3.531	3.249	3.108	3.249	3.531	3.673	3.814
175.5	3.673	3.673	3.531	3.249	3.108	3.249	3.531	3.673	3.814
176.0	3.673	3.673	3.531	3.249	3.108	3.249	3.531	3.673	3.814
176.5	3.673	3.673	3.531	3.390	3.108	3.249	3.531	3.673	3.814
177.0	3.673	3.814	3.531	3.390	3.108	3.249	3.531	3.814	3.814
177.5	3.673	3.814	3.531	3.390	3.108	3.249	3.531	3.814	3.814
178.0	3.673	3.814	3.531	3.390	3.108	3.390	3.531	3.814	3.814
178.5	3.673	3.814	3.531	3.390	3.108	3.390	3.531	3.814	3.814
179.0	3.814	3.814	3.531	3.390	3.108	3.390	3.673	3.814	3.814
179.5	3.814	3.814	3.531	3.390	3.108	3.390	3.531	3.814	3.814
180.0	3.531	3.531	3.531	3.531	3.531	3.531	3.531	3.531	3.531

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_5000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	661.27	N.A.	11.40
0-30	1389.07	N.A.	24.00
0-40	2252.16	N.A.	38.80
0-60	3964.56	N.A.	68.40
0-80	5109.67	N.A.	88.10
0-90	5381.93	N.A.	92.80
10-90	5209.62	N.A.	89.80
20-40	1590.89	N.A.	27.40
20-50	2480.83	N.A.	42.80
40-70	2385.92	N.A.	41.10
60-80	1145.11	N.A.	19.70
70-80	471.59	N.A.	8.10
80-90	272.26	N.A.	4.70
90-110	266.92	N.A.	4.60
90-120	339.02	N.A.	5.80
90-130	382.21	N.A.	6.60
90-150	413.69	N.A.	7.10
90-180	417.56	N.A.	7.20
110-180	150.64	N.A.	2.60
0-180	5799.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.31
10-20	488.96
20-30	727.80
30-40	863.09
40-50	889.94
50-60	822.46
60-70	673.53
70-80	471.59
80-90	272.26
90-100	157.66
100-110	109.26
110-120	72.11
120-130	43.18
130-140	22.38
140-150	9.10
150-160	2.57
160-170	0.96
170-180	0.33

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_5000K_.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

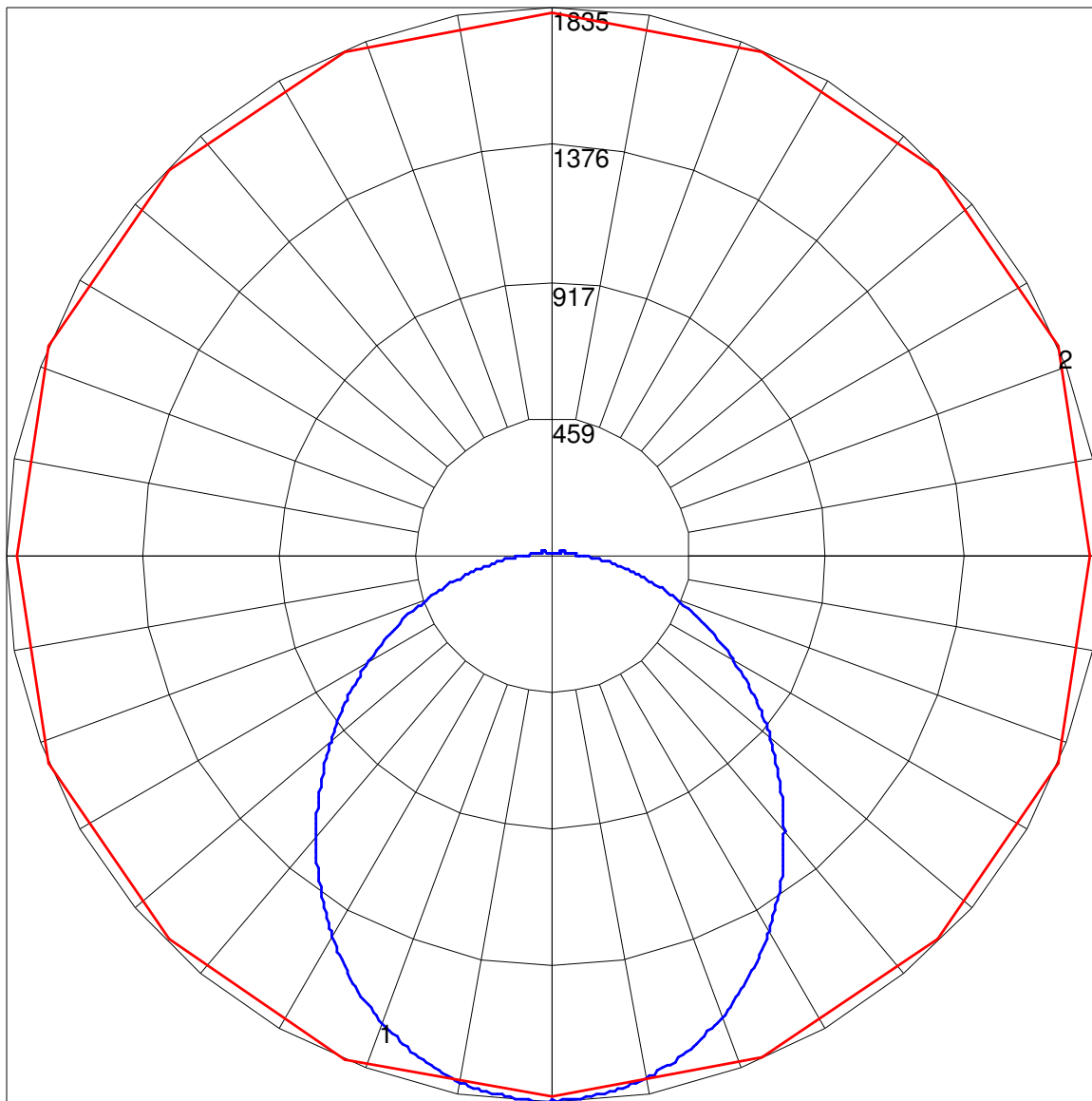
IES INDOOR REPORT
PHOTOMETRIC FILENAME : FS-4-LS-8CS-DIM-UNV_42W_5000K_.IES

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					UGR Viewed Endwise				
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
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 = 1834.925 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.)