



IES ROAD REPORT  
PHOTOMETRIC FILENAME : VWPX-L85-830-TFT-XXX-CGL-DIM-UNV\_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL009828  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 2024-02-01  
[TEST DATE] 07/14/15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] VWPx-L85-830-TFT-xxx-CGL-DIM-UNV  
[LUMINAIRE] CAST ALUMINUM LED WALL PACK  
[MORE] FORWARD THROW DISTRIBUTION WITH  
[MORE] CLEAR GLASS LENS  
[LAMPCAT] X8-LUXEON M  
[LAMP] (8) LEDS  
[ \_SEARCH\_SOURCE TYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor  
[ \_SEARCH\_MOUNTING] Wall

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7452
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2602.035
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	2602.035
Maximum Candela Angle (<90 Degrees Vertical)	45H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	463.189 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L85-830-TFT-XXX-CGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	438.6	N.A.	5.9
FM - Front-Medium (30-60)	1898.2	N.A.	25.5
FH - Front-High (60-80)	1710.0	N.A.	22.9
FVH - Front-Very High (80-90)	38.8	N.A.	0.5
BL - Back-Low (0-30)	425.2	N.A.	5.7
BM - Back-Medium (30-60)	1755.3	N.A.	23.6
BH - Back-High (60-80)	1179.9	N.A.	15.8
BVH - Back-Very High (80-90)	5.7	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7451.7	N.A.	100.0
BUG Rating	B3-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727
2.5	953.625	950.901	949.538	946.814	944.089	942.727	942.727	944.089	941.364	940.002
5.0	952.263	948.176	945.451	944.089	942.727	942.727	941.364	942.727	940.002	940.002
7.5	952.263	948.176	944.089	944.089	942.727	942.727	941.364	940.002	937.278	935.915
10.0	956.350	950.901	946.814	948.176	945.451	945.451	944.089	942.727	938.640	935.915
12.5	968.611	961.799	959.075	960.437	957.712	956.350	954.988	950.901	945.451	941.364
15.0	986.321	976.785	975.423	980.872	980.872	978.147	976.785	972.698	965.886	959.075
17.5	1009.481	998.582	991.770	998.582	999.944	1001.307	1004.031	1001.307	993.133	986.321
20.0	1047.626	1038.089	1027.191	1028.553	1025.828	1029.915	1032.640	1034.002	1027.191	1020.379
22.5	1096.669	1087.133	1073.510	1070.785	1063.973	1066.698	1068.060	1069.423	1065.336	1059.886
25.0	1149.800	1142.988	1125.278	1119.829	1110.292	1111.655	1108.930	1111.655	1106.205	1103.481
27.5	1204.293	1193.394	1175.684	1170.235	1157.974	1159.336	1151.162	1151.162	1149.800	1153.887
30.0	1269.684	1261.510	1238.351	1227.452	1213.829	1208.380	1194.756	1196.119	1193.394	1194.756
32.5	1343.249	1329.626	1311.916	1296.931	1279.220	1264.235	1246.525	1243.800	1235.626	1231.539
35.0	1422.264	1411.366	1392.293	1375.945	1351.423	1332.351	1309.191	1296.931	1284.670	1271.046
37.5	1495.830	1487.656	1468.583	1454.960	1427.713	1404.554	1377.308	1350.061	1333.713	1318.728
40.0	1566.670	1561.221	1540.786	1528.525	1502.641	1476.757	1446.786	1416.815	1395.018	1374.583
42.5	1640.236	1633.424	1614.352	1599.366	1574.844	1546.235	1517.627	1490.380	1465.858	1448.148
45.0	1706.989	1701.540	1687.917	1672.931	1648.410	1618.439	1591.192	1563.946	1546.235	1533.975
47.5	1769.656	1764.207	1757.395	1747.859	1724.700	1690.642	1666.120	1638.873	1627.975	1626.612
50.0	1805.077	1806.439	1809.164	1814.613	1803.714	1769.656	1751.946	1730.149	1720.613	1724.700
52.5	1813.251	1821.424	1843.222	1867.743	1875.917	1852.758	1847.309	1835.048	1825.511	1830.961
55.0	1828.236	1837.772	1875.917	1920.874	1949.483	1944.033	1948.120	1954.932	1948.120	1949.483
57.5	1899.077	1916.787	1950.845	2009.425	2050.295	2062.555	2074.816	2100.700	2103.425	2095.251
60.0	1982.178	2003.976	2043.483	2115.686	2170.179	2204.237	2228.759	2285.976	2314.585	2305.049
62.5	1993.077	2017.599	2066.642	2138.845	2185.164	2242.382	2303.686	2434.469	2506.672	2512.122
65.0	1923.599	1952.207	2008.063	2081.628	2142.932	2212.411	2296.875	2484.875	2585.687	2602.035
67.5	1882.729	1916.787	2005.338	2072.092	2099.338	2117.048	2190.614	2409.948	2533.919	2536.644
70.0	1818.700	1860.932	1974.005	2057.106	2096.614	2072.092	2089.802	2176.991	2273.715	2270.991
72.5	1536.699	1572.120	1765.569	1897.715	1961.744	1912.700	1974.005	1886.816	1764.207	1690.642
75.0	656.639	679.799	825.567	997.220	1149.800	1281.945	1456.322	1539.424	1341.887	1276.496
77.5	237.044	242.493	272.464	306.522	386.899	551.740	796.958	940.002	927.741	963.162
80.0	96.725	99.450	113.073	132.145	167.566	217.972	318.783	412.784	437.305	463.189
82.5	39.507	40.870	47.681	53.131	70.841	94.000	134.870	170.290	179.827	200.261
85.0	14.986	14.986	16.348	19.073	24.522	32.696	49.044	62.667	64.029	74.928
87.5	4.087	4.087	4.087	4.087	4.087	4.087	5.449	5.449	8.174	10.899
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727
2.5	938.640	937.278	940.002	941.364	938.640	935.915	935.915	935.915	935.915	935.915
5.0	935.915	934.553	937.278	937.278	934.553	930.466	927.741	927.741	926.379	927.741
7.5	934.553	930.466	933.191	931.828	929.104	923.654	919.567	919.567	918.205	918.205
10.0	934.553	927.741	930.466	931.828	931.828	926.379	920.930	919.567	918.205	916.843
12.5	940.002	935.915	938.640	938.640	940.002	934.553	929.104	926.379	923.654	922.292
15.0	959.075	956.350	957.712	956.350	954.988	950.901	942.727	935.915	933.191	931.828
17.5	983.596	982.234	980.872	978.147	972.698	964.524	959.075	953.625	952.263	950.901
20.0	1016.292	1014.930	1013.568	1005.394	998.582	989.046	984.959	983.596	983.596	982.234
22.5	1055.800	1047.626	1044.901	1038.089	1031.278	1025.828	1024.466	1023.104	1023.104	1021.741
25.0	1100.756	1087.133	1084.408	1078.959	1073.510	1074.872	1074.872	1073.510	1073.510	1068.060
27.5	1145.713	1129.365	1122.553	1118.466	1117.104	1122.553	1122.553	1123.916	1126.640	1118.466

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## CANDELA TABULATION - (Cont.)

30.0	1194.756	1175.684	1162.061	1163.423	1164.785	1174.322	1174.322	1177.046	1183.858	1175.684
32.5	1236.988	1227.452	1207.017	1209.742	1213.829	1226.090	1232.901	1239.713	1247.887	1236.988
35.0	1276.496	1277.858	1260.148	1264.235	1273.771	1288.757	1298.293	1310.554	1321.452	1309.191
37.5	1318.728	1328.264	1324.177	1330.989	1344.612	1363.684	1375.945	1389.568	1392.293	1388.206
40.0	1373.221	1389.568	1395.018	1408.641	1420.902	1438.612	1457.685	1471.308	1471.308	1468.583
42.5	1439.974	1457.685	1465.858	1484.931	1499.916	1513.540	1531.250	1542.148	1538.062	1539.424
45.0	1520.351	1532.612	1543.511	1561.221	1576.207	1588.467	1598.004	1598.004	1592.554	1595.279
47.5	1612.989	1614.352	1617.076	1637.511	1651.134	1670.207	1674.294	1666.120	1657.946	1664.757
50.0	1716.526	1709.714	1702.902	1716.526	1730.149	1750.584	1746.497	1728.787	1717.888	1727.424
52.5	1828.236	1815.975	1800.990	1810.526	1815.975	1821.424	1795.540	1764.207	1754.671	1768.294
55.0	1949.483	1944.033	1916.787	1908.613	1897.715	1880.004	1820.062	1764.207	1747.859	1764.207
57.5	2104.787	2096.614	2050.295	2028.497	1991.715	1952.207	1863.656	1800.990	1787.366	1792.816
60.0	2311.860	2299.599	2223.309	2172.904	2117.048	2050.295	1945.396	1884.091	1871.830	1873.193
62.5	2499.861	2456.267	2322.759	2220.585	2149.744	2058.469	1949.483	1886.816	1871.830	1874.555
65.0	2577.513	2501.223	2329.571	2200.150	2129.309	2040.758	1949.483	1890.903	1880.004	1874.555
67.5	2536.644	2445.368	2249.194	2156.556	2140.208	2076.179	1988.990	1892.265	1870.468	1869.106
70.0	2324.121	2243.744	2149.744	2152.469	2194.701	2149.744	2025.773	1869.106	1830.961	1837.772
72.5	1760.120	1937.222	2077.541	2039.396	2082.990	2008.063	1820.062	1599.366	1551.685	1589.830
75.0	1370.496	1607.540	1578.931	1429.076	1208.380	1068.060	839.190	679.799	683.886	678.436
77.5	948.176	961.799	848.727	634.842	404.610	356.928	299.711	258.841	264.290	258.841
80.0	450.929	429.131	339.218	254.754	186.638	167.566	137.595	119.884	118.522	113.073
82.5	188.000	185.276	152.580	117.160	89.913	73.565	61.304	53.131	54.493	54.493
85.0	72.203	74.928	62.667	49.044	36.783	31.333	25.884	24.522	23.159	23.159
87.5	13.623	17.710	13.623	12.261	10.899	9.536	8.174	6.812	6.812	6.812
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## Vert. Angles

### Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727	942.727
2.5	935.915	934.553	934.553	933.191	934.553	938.640	935.915	935.915	938.640	942.727
5.0	926.379	925.017	926.379	929.104	929.104	933.191	931.828	931.828	934.553	937.278
7.5	916.843	916.843	920.930	923.654	925.017	927.741	927.741	926.379	929.104	933.191
10.0	916.843	918.205	922.292	925.017	923.654	925.017	925.017	925.017	927.741	930.466
12.5	923.654	926.379	931.828	933.191	931.828	927.741	927.741	927.741	931.828	935.915
15.0	934.553	940.002	944.089	948.176	946.814	945.451	944.089	944.089	945.451	950.901
17.5	950.901	952.263	959.075	965.886	965.886	968.611	967.249	965.886	965.886	969.973
20.0	979.509	978.147	980.872	990.408	991.770	994.495	994.495	995.857	993.133	993.133
22.5	1017.655	1016.292	1016.292	1023.104	1025.828	1025.828	1025.828	1027.191	1024.466	1021.741
25.0	1069.423	1066.698	1059.886	1063.973	1063.973	1062.611	1066.698	1065.336	1062.611	1057.162
27.5	1122.553	1115.742	1107.568	1107.568	1102.118	1100.756	1113.017	1108.930	1102.118	1091.220
30.0	1175.684	1166.148	1155.249	1148.437	1142.988	1144.350	1152.524	1144.350	1134.814	1122.553
32.5	1232.901	1217.916	1207.017	1196.119	1186.582	1190.669	1186.582	1175.684	1164.785	1156.611
35.0	1302.380	1284.670	1266.959	1253.336	1235.626	1228.814	1220.640	1201.568	1193.394	1186.582
37.5	1382.757	1363.684	1345.974	1318.728	1290.119	1276.496	1257.423	1239.713	1227.452	1222.003
40.0	1461.771	1442.699	1424.989	1393.655	1352.786	1325.539	1302.380	1286.032	1272.409	1269.684
42.5	1532.612	1512.177	1498.554	1461.771	1423.626	1385.481	1356.873	1340.525	1328.264	1328.264
45.0	1599.366	1587.105	1566.670	1528.525	1490.380	1450.873	1419.539	1405.916	1396.380	1390.931
47.5	1672.931	1667.482	1640.236	1599.366	1559.859	1516.264	1494.467	1475.395	1465.858	1454.960
50.0	1742.410	1745.134	1717.888	1677.018	1636.149	1591.192	1578.931	1557.134	1539.424	1525.801
52.5	1798.265	1811.888	1798.265	1753.308	1724.700	1686.555	1668.844	1638.873	1625.250	1608.902
55.0	1810.526	1852.758	1866.381	1843.222	1825.511	1792.816	1769.656	1735.598	1724.700	1712.439
57.5	1837.772	1886.816	1935.860	1941.309	1931.773	1915.425	1893.628	1851.396	1839.135	1832.323
60.0	1908.613	1954.932	2028.497	2063.918	2063.918	2080.266	2070.729	2025.773	2008.063	1994.439
62.5	1905.888	1959.019	2038.034	2108.874	2170.179	2243.744	2261.454	2224.672	2212.411	2178.353
65.0	1889.541	1929.048	2013.512	2100.700	2166.092	2307.773	2384.063	2382.701	2330.933	2268.266

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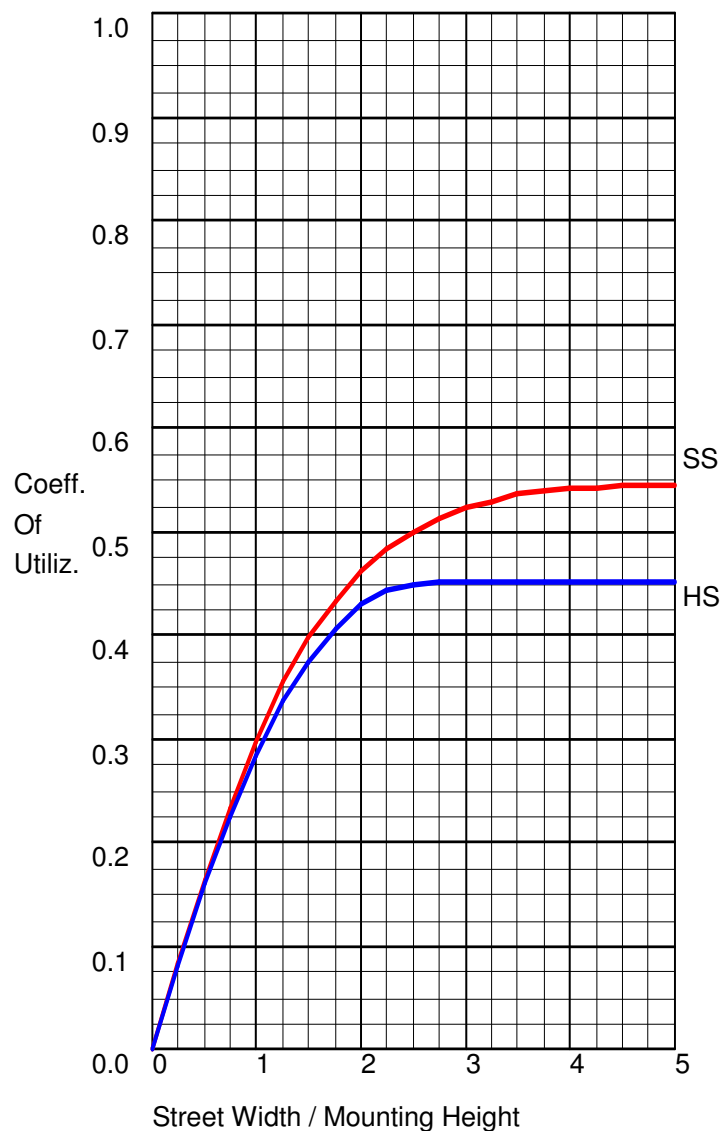
## CANDELA TABULATION - (Cont.)

67.5	1908.613	1967.193	2010.787	2039.396	2095.251	2298.237	2401.774	2250.556	2091.164	2010.787
70.0	1907.251	2010.787	2050.295	2033.947	2021.686	2134.759	1878.642	1723.337	1869.106	1130.727
72.5	1749.221	1937.222	2039.396	1982.178	2017.599	1472.670	1301.017	914.118	170.290	31.333
75.0	846.002	1065.336	1298.293	1356.873	1236.988	1025.828	235.682	23.159	5.449	4.087
77.5	302.435	348.754	423.682	506.784	588.523	16.348	5.449	4.087	2.725	2.725
80.0	134.870	152.580	144.406	117.160	44.957	2.725	2.725	1.362	1.362	1.362
82.5	58.580	58.580	38.145	16.348	2.725	1.362	1.362	1.362	1.362	1.362
85.0	24.522	13.623	6.812	1.362	1.362	1.362	1.362	0.000	0.000	0.000
87.5	5.449	1.362	1.362	1.362	1.362	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	942.727	942.727	942.727	942.727	942.727	942.727	942.727
2.5	941.364	942.727	945.451	945.451	948.176	945.451	941.364
5.0	935.915	935.915	938.640	938.640	940.002	938.640	933.191
7.5	930.466	930.466	931.828	930.466	931.828	930.466	925.017
10.0	929.104	929.104	929.104	930.466	933.191	930.466	927.741
12.5	935.915	938.640	935.915	938.640	941.364	938.640	935.915
15.0	952.263	952.263	949.538	950.901	949.538	945.451	944.089
17.5	968.611	967.249	960.437	959.075	957.712	957.712	956.350
20.0	990.408	987.683	978.147	978.147	979.509	980.872	982.234
22.5	1017.655	1013.568	1002.669	1004.031	1008.118	1012.205	1017.655
25.0	1050.350	1040.814	1034.002	1035.365	1040.814	1047.626	1051.713
27.5	1077.597	1069.423	1063.973	1066.698	1072.147	1080.321	1085.771
30.0	1107.568	1102.118	1102.118	1104.843	1111.655	1122.553	1129.365
32.5	1144.350	1138.901	1138.901	1144.350	1153.887	1167.510	1175.684
35.0	1182.495	1174.322	1182.495	1190.669	1204.293	1219.278	1230.177
37.5	1220.640	1224.727	1238.351	1250.612	1264.235	1283.307	1298.293
40.0	1271.046	1283.307	1295.568	1311.916	1330.989	1352.786	1367.771
42.5	1330.989	1344.612	1359.597	1374.583	1393.655	1418.177	1434.525
45.0	1393.655	1405.916	1420.902	1435.887	1454.960	1480.844	1494.467
47.5	1456.322	1463.134	1482.206	1495.830	1514.902	1540.786	1550.322
50.0	1525.801	1529.888	1547.598	1561.221	1578.931	1602.091	1607.540
52.5	1607.540	1607.540	1618.439	1629.337	1634.786	1649.772	1651.134
55.0	1702.902	1694.729	1696.091	1697.453	1686.555	1683.830	1678.381
57.5	1815.975	1803.714	1792.816	1771.019	1728.787	1704.265	1693.366
60.0	1975.367	1948.120	1909.975	1852.758	1781.917	1760.120	1751.946
62.5	2110.237	2029.860	1956.294	1880.004	1810.526	1788.729	1776.468
65.0	2134.759	2031.222	1939.946	1835.048	1679.743	1474.032	1472.670
67.5	1991.715	1559.859	1027.191	566.726	284.725	164.841	122.609
70.0	388.262	194.812	23.159	8.174	5.449	5.449	5.449
72.5	8.174	5.449	4.087	4.087	4.087	4.087	2.725
75.0	4.087	2.725	2.725	2.725	1.362	1.362	1.362
77.5	1.362	1.362	1.362	1.362	1.362	0.000	0.000
80.0	1.362	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

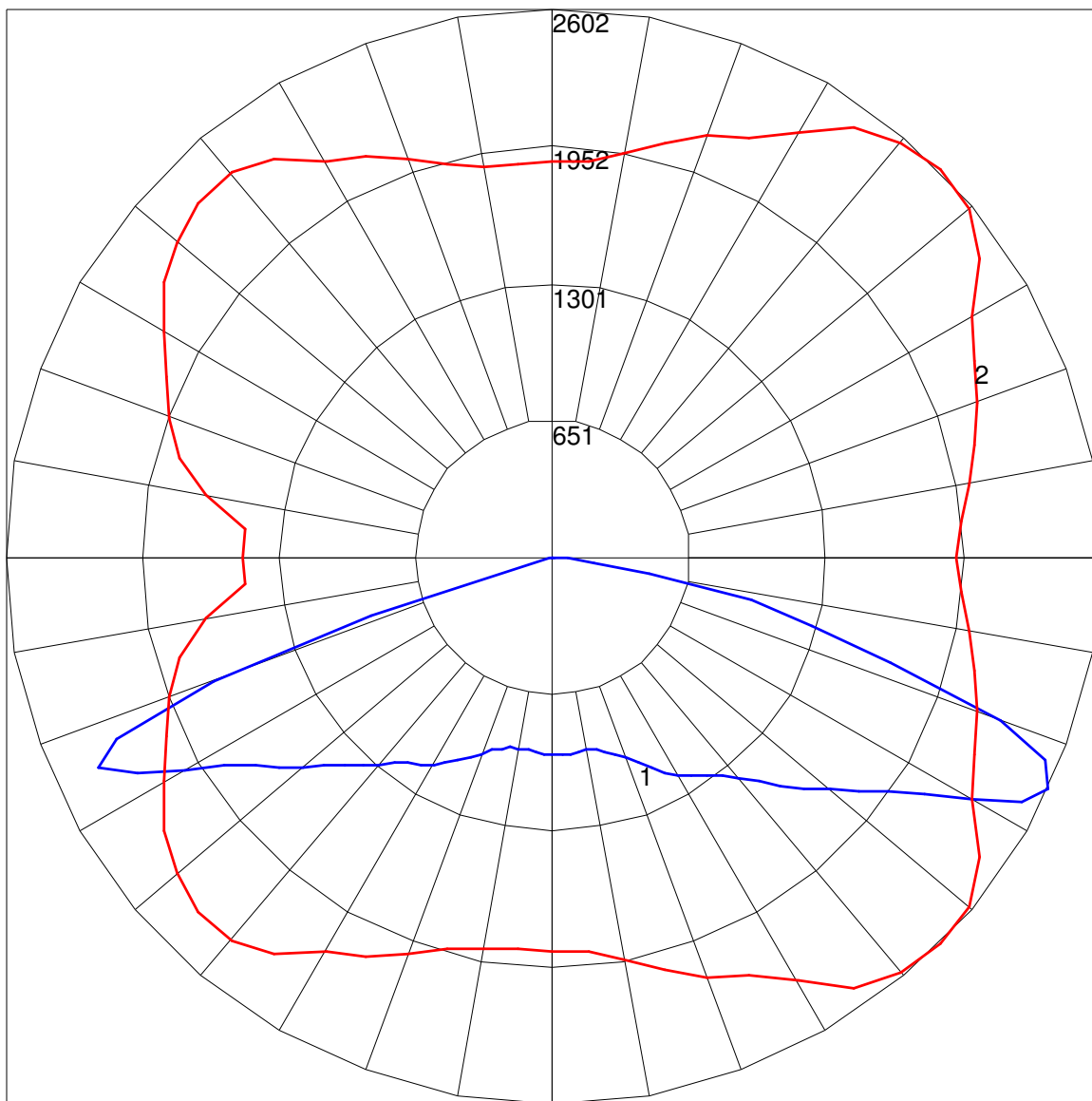
# COEFFICIENTS OF UTILIZATION



# FLUX DISTRIBUTION

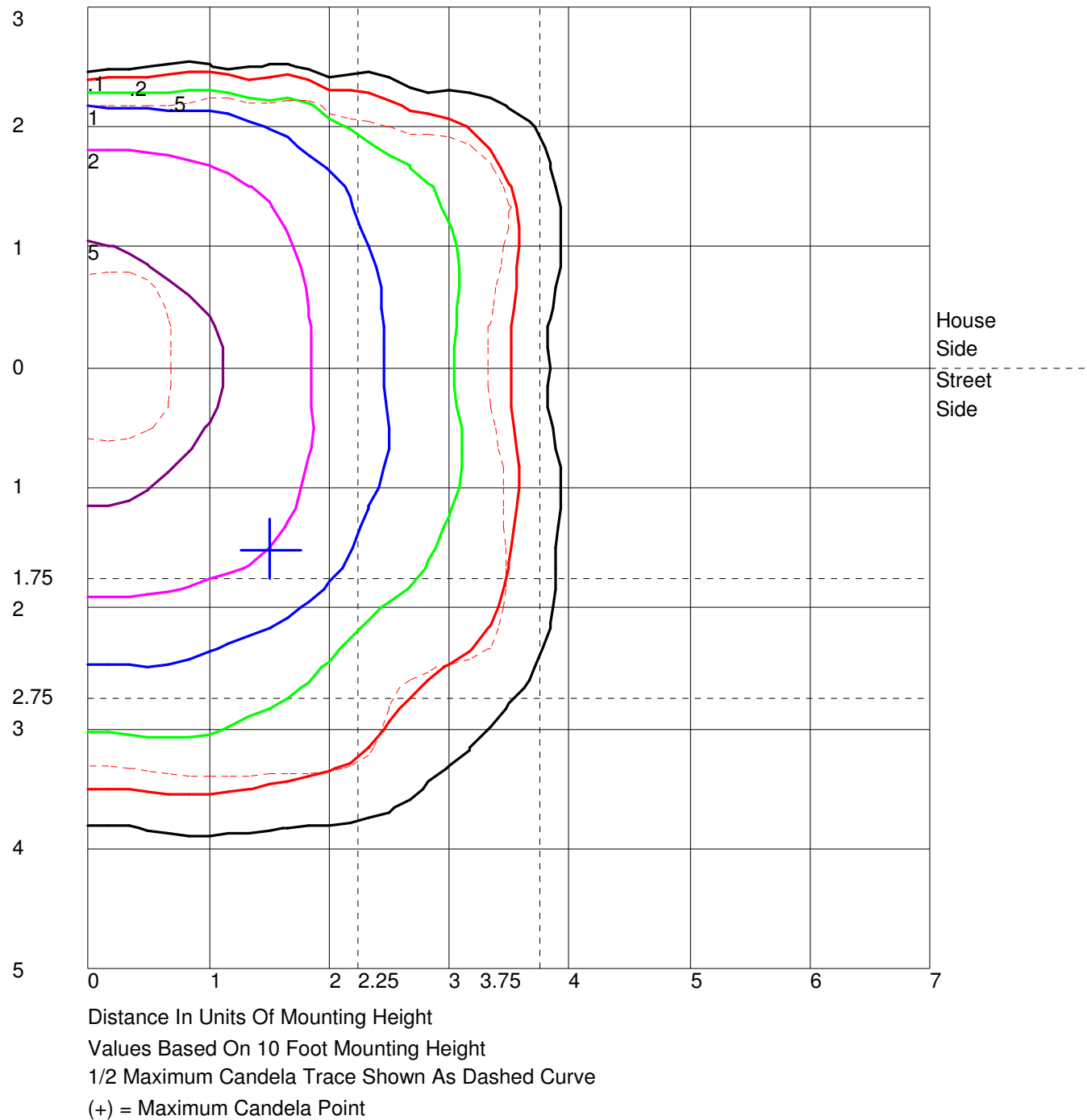
	Lumens	Percent Of Luminaire
Downward Street Side	4085.7	54.8
Downward House Side	3366.1	45.2
Downward Total	7451.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7451.8	100.0

POLAR GRAPH



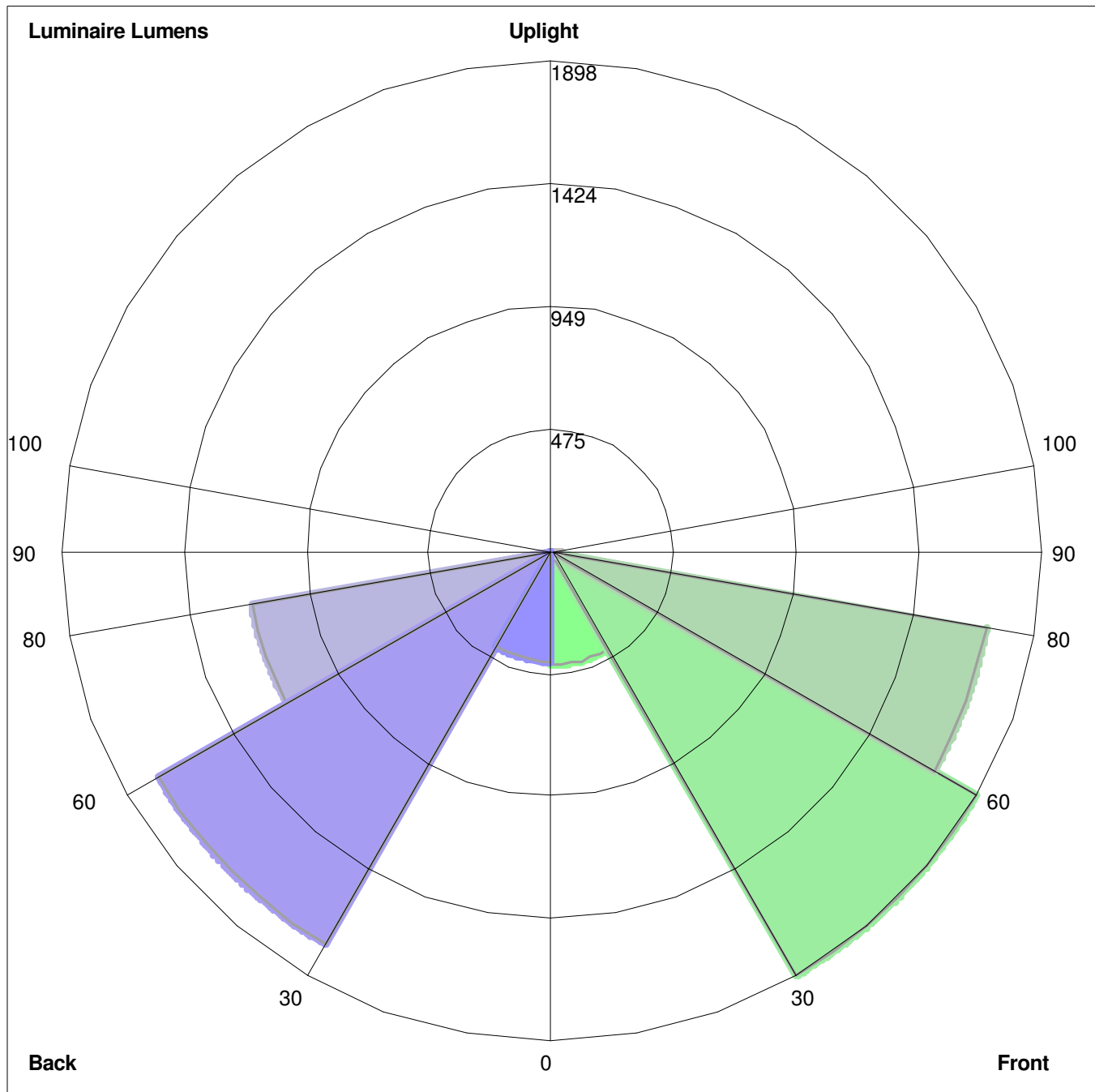
Maximum Candela = 2602.035 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=438.6, Medium=1898.2, High= 1710.0, Very High=38.8  
Back: Low=425.2, Medium=1755.3, High=1179.9, Very High=5.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3