



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-840-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-L85-840-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\_SOURCETYPE] 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	7885
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2753.317
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	2753.317
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	490.119 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L85-840-TFT-XXX-CGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	464.1	N.A.	5.9
FM - Front-Medium (30-60)	2008.6	N.A.	25.5
FH - Front-High (60-80)	1809.4	N.A.	22.9
FVH - Front-Very High (80-90)	41.0	N.A.	0.5
BL - Back-Low (0-30)	449.9	N.A.	5.7
BM - Back-Medium (30-60)	1857.3	N.A.	23.6
BH - Back-High (60-80)	1248.5	N.A.	15.8
BVH - Back-Very High (80-90)	6.0	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	7884.8	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	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537
2.5	1009.069	1006.186	1004.744	1001.861	998.978	997.537	997.537	998.978	996.095	994.654
5.0	1007.627	1003.303	1000.420	998.978	997.537	997.537	996.095	997.537	994.654	994.654
7.5	1007.627	1003.303	998.978	998.978	997.537	997.537	996.095	994.654	991.771	990.329
10.0	1011.952	1006.186	1001.861	1003.303	1000.420	1000.420	998.978	997.537	993.212	990.329
12.5	1024.926	1017.718	1014.835	1016.277	1013.393	1011.952	1010.510	1006.186	1000.420	996.095
15.0	1043.666	1033.575	1032.133	1037.899	1037.899	1035.016	1033.575	1029.250	1022.043	1014.835
17.5	1068.172	1056.639	1049.432	1056.639	1058.081	1059.522	1062.405	1059.522	1050.873	1043.666
20.0	1108.534	1098.444	1086.911	1088.353	1085.470	1089.794	1092.677	1094.119	1086.911	1079.704
22.5	1160.429	1150.339	1135.923	1133.040	1125.833	1128.716	1130.157	1131.599	1127.274	1121.508
25.0	1216.649	1209.441	1190.701	1184.935	1174.845	1176.286	1173.403	1176.286	1170.520	1167.637
27.5	1274.310	1262.778	1244.038	1238.272	1225.298	1226.739	1218.090	1218.090	1216.649	1220.973
30.0	1343.503	1334.854	1310.348	1298.816	1284.401	1278.634	1264.219	1265.661	1262.778	1264.219
32.5	1421.346	1406.930	1388.191	1372.334	1353.594	1337.737	1318.997	1316.114	1307.465	1303.140
35.0	1504.954	1493.422	1473.241	1455.942	1429.995	1409.813	1385.307	1372.334	1359.360	1344.945
37.5	1582.797	1574.147	1553.966	1539.551	1510.720	1486.214	1457.384	1428.553	1411.255	1395.398
40.0	1657.756	1651.990	1630.367	1617.393	1590.004	1562.615	1530.902	1499.188	1476.124	1454.501
42.5	1735.599	1728.391	1708.210	1692.353	1666.405	1636.133	1605.861	1577.031	1551.083	1532.343
45.0	1806.233	1800.467	1786.052	1770.195	1744.248	1712.534	1683.704	1654.873	1636.133	1623.159
47.5	1872.544	1866.777	1859.570	1849.479	1824.973	1788.935	1762.988	1734.157	1722.625	1721.183
50.0	1910.023	1911.465	1914.348	1920.114	1908.582	1872.544	1853.804	1830.739	1820.649	1824.973
52.5	1918.672	1927.322	1950.386	1976.334	1984.983	1960.477	1954.711	1941.737	1931.646	1937.412
55.0	1934.529	1944.620	1984.983	2032.553	2062.825	2057.059	2061.384	2068.591	2061.384	2062.825
57.5	2009.489	2028.229	2064.267	2126.252	2169.498	2182.472	2195.446	2222.835	2225.718	2217.069
60.0	2097.422	2120.486	2162.291	2238.691	2296.353	2332.391	2358.338	2418.882	2449.154	2439.064
62.5	2108.954	2134.902	2186.796	2263.197	2312.209	2372.753	2437.622	2576.009	2652.410	2658.176
65.0	2035.436	2065.708	2124.811	2202.653	2267.522	2341.040	2430.415	2629.345	2736.018	2753.317
67.5	1992.190	2028.229	2121.928	2192.563	2221.393	2240.133	2317.975	2550.061	2681.240	2684.123
70.0	1924.439	1969.126	2088.773	2176.706	2218.510	2192.563	2211.302	2303.560	2405.909	2403.026
72.5	1626.042	1663.522	1868.219	2008.047	2075.799	2023.904	2088.773	1996.515	1866.777	1788.935
75.0	694.816	719.322	873.565	1055.198	1216.649	1356.477	1540.992	1628.926	1419.904	1350.711
77.5	250.826	256.592	288.305	324.344	409.394	583.818	843.293	994.654	981.680	1019.160
80.0	102.348	105.231	119.647	139.828	177.308	230.644	337.317	436.783	462.730	490.119
82.5	41.804	43.246	50.453	56.220	74.959	99.465	142.711	180.191	190.282	211.904
85.0	15.857	15.857	17.298	20.181	25.947	34.597	51.895	66.310	67.752	79.284
87.5	4.325	4.325	4.325	4.325	4.325	4.325	5.766	5.766	8.649	11.532
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	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537
2.5	993.212	991.771	994.654	996.095	993.212	990.329	990.329	990.329	990.329	990.329
5.0	990.329	988.888	991.771	991.771	988.888	984.563	981.680	981.680	980.238	981.680
7.5	988.888	984.563	987.446	986.004	983.121	977.355	973.031	973.031	971.589	971.589
10.0	988.888	981.680	984.563	986.004	986.004	980.238	974.472	973.031	971.589	970.148
12.5	994.654	990.329	993.212	993.212	994.654	988.888	983.121	980.238	977.355	975.914
15.0	1014.835	1011.952	1013.393	1011.952	1010.510	1006.186	997.537	990.329	987.446	986.004
17.5	1040.783	1039.341	1037.899	1035.016	1029.250	1020.601	1014.835	1009.069	1007.627	1006.186
20.0	1075.379	1073.938	1072.496	1063.847	1056.639	1046.549	1042.224	1040.783	1040.783	1039.341
22.5	1117.183	1108.534	1105.651	1098.444	1091.236	1085.470	1084.028	1082.587	1082.587	1081.145
25.0	1164.754	1150.339	1147.455	1141.689	1135.923	1137.365	1137.365	1135.923	1135.923	1130.157
27.5	1212.324	1195.026	1187.818	1183.494	1182.052	1187.818	1187.818	1189.260	1192.143	1183.494

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## CANDELA TABULATION - (Cont.)

30.0	1264.219	1244.038	1229.623	1231.064	1232.506	1242.596	1242.596	1245.479	1252.687	1244.038
32.5	1308.907	1298.816	1277.193	1280.076	1284.401	1297.374	1304.582	1311.790	1320.439	1308.907
35.0	1350.711	1352.152	1333.412	1337.737	1347.828	1363.685	1373.775	1386.749	1398.281	1385.307
37.5	1395.398	1405.489	1401.164	1408.372	1422.787	1442.969	1455.942	1470.358	1473.241	1468.916
40.0	1453.059	1470.358	1476.124	1490.539	1503.513	1522.253	1542.434	1556.849	1556.849	1553.966
42.5	1523.694	1542.434	1551.083	1571.264	1587.121	1601.537	1620.276	1631.809	1627.484	1628.926
45.0	1608.744	1621.718	1633.250	1651.990	1667.847	1680.820	1690.911	1690.911	1685.145	1688.028
47.5	1706.768	1708.210	1711.093	1732.715	1747.131	1767.312	1771.637	1762.988	1754.338	1761.546
50.0	1816.324	1809.116	1801.909	1816.324	1830.739	1852.362	1848.038	1829.298	1817.766	1827.856
52.5	1934.529	1921.556	1905.699	1915.789	1921.556	1927.322	1899.933	1866.777	1856.687	1871.102
55.0	2062.825	2057.059	2028.229	2019.579	2008.047	1989.307	1925.880	1866.777	1849.479	1866.777
57.5	2227.159	2218.510	2169.498	2146.434	2107.512	2065.708	1972.009	1905.699	1891.283	1897.050
60.0	2446.271	2433.298	2352.572	2299.236	2240.133	2169.498	2058.501	1993.632	1980.658	1982.100
62.5	2645.202	2599.073	2457.804	2349.689	2274.730	2178.147	2062.825	1996.515	1980.658	1983.541
65.0	2727.369	2646.644	2465.011	2328.066	2253.107	2159.407	2062.825	2000.839	1989.307	1983.541
67.5	2684.123	2587.541	2379.961	2281.937	2264.639	2196.887	2104.629	2002.281	1979.217	1977.775
70.0	2459.245	2374.195	2274.730	2277.613	2322.300	2274.730	2143.551	1977.775	1937.412	1944.620
72.5	1862.453	2049.851	2198.329	2157.966	2204.095	2124.811	1925.880	1692.353	1641.899	1682.262
75.0	1450.176	1701.002	1670.730	1512.162	1278.634	1130.157	887.981	719.322	723.647	717.880
77.5	1003.303	1017.718	898.071	671.752	428.134	377.680	317.136	273.890	279.656	273.890
80.0	477.145	454.081	358.940	269.566	197.489	177.308	145.594	126.854	125.413	119.647
82.5	198.931	196.048	161.451	123.971	95.141	77.842	64.869	56.220	57.661	57.661
85.0	76.401	79.284	66.310	51.895	38.921	33.155	27.389	25.947	24.506	24.506
87.5	14.415	18.740	14.415	12.974	11.532	10.091	8.649	7.208	7.208	7.208
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	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537	997.537
2.5	990.329	988.888	988.888	987.446	988.888	993.212	990.329	990.329	993.212	997.537
5.0	980.238	978.797	980.238	983.121	983.121	987.446	986.004	986.004	988.888	991.771
7.5	970.148	970.148	974.472	977.355	978.797	981.680	981.680	980.238	983.121	987.446
10.0	970.148	971.589	975.914	978.797	977.355	978.797	978.797	978.797	981.680	984.563
12.5	977.355	980.238	986.004	987.446	986.004	981.680	981.680	981.680	986.004	990.329
15.0	988.888	994.654	998.978	1003.303	1001.861	1000.420	998.978	998.978	1000.420	1006.186
17.5	1006.186	1007.627	1014.835	1022.043	1022.043	1024.926	1023.484	1022.043	1022.043	1026.367
20.0	1036.458	1035.016	1037.899	1047.990	1049.432	1052.315	1052.315	1053.756	1050.873	1050.873
22.5	1076.821	1075.379	1075.379	1082.587	1085.470	1085.470	1085.470	1086.911	1084.028	1081.145
25.0	1131.599	1128.716	1121.508	1125.833	1125.833	1124.391	1128.716	1127.274	1124.391	1118.625
27.5	1187.818	1180.611	1171.961	1171.961	1166.195	1164.754	1177.728	1173.403	1166.195	1154.663
30.0	1244.038	1233.947	1222.415	1215.207	1209.441	1210.883	1219.532	1210.883	1200.792	1187.818
32.5	1304.582	1288.725	1277.193	1265.661	1255.570	1259.895	1255.570	1244.038	1232.506	1223.856
35.0	1378.100	1359.360	1340.620	1326.205	1307.465	1300.257	1291.608	1271.427	1262.778	1255.570
37.5	1463.150	1442.969	1424.229	1395.398	1365.126	1350.711	1330.529	1311.790	1298.816	1293.050
40.0	1546.758	1526.577	1507.837	1474.682	1431.436	1402.606	1378.100	1360.801	1346.386	1343.503
42.5	1621.718	1600.095	1585.680	1546.758	1506.396	1466.033	1435.761	1418.463	1405.489	1405.489
45.0	1692.353	1679.379	1657.756	1617.393	1577.031	1535.226	1502.071	1487.656	1477.565	1471.799
47.5	1770.195	1764.429	1735.599	1692.353	1650.548	1604.420	1581.355	1561.174	1551.083	1539.551
50.0	1843.713	1846.596	1817.766	1774.520	1731.274	1683.704	1670.730	1647.665	1628.926	1614.510
52.5	1902.816	1917.231	1902.816	1855.245	1824.973	1784.610	1765.871	1734.157	1719.742	1702.443
55.0	1915.789	1960.477	1974.892	1950.386	1931.646	1897.050	1872.544	1836.505	1824.973	1811.999
57.5	1944.620	1996.515	2048.410	2054.176	2044.085	2026.787	2003.723	1959.035	1946.061	1938.854
60.0	2019.579	2068.591	2146.434	2183.913	2183.913	2201.212	2191.121	2143.551	2124.811	2110.396
62.5	2016.696	2072.916	2156.524	2231.484	2296.353	2374.195	2392.935	2354.014	2341.040	2305.002
65.0	1999.398	2041.202	2130.577	2222.835	2292.028	2441.947	2522.672	2521.231	2466.453	2400.142

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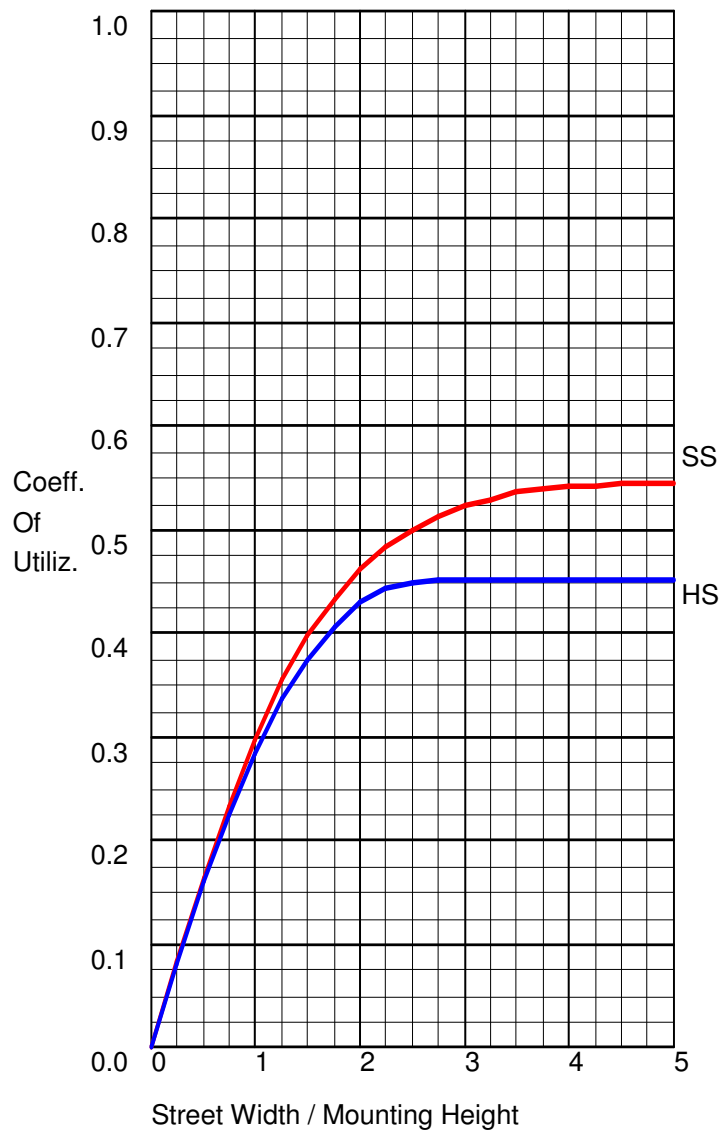
## CANDELA TABULATION - (Cont.)

67.5	2019.579	2081.565	2127.694	2157.966	2217.069	2431.856	2541.412	2381.403	2212.744	2127.694
70.0	2018.138	2127.694	2169.498	2152.200	2139.226	2258.873	1987.866	1823.532	1977.775	1196.467
72.5	1850.921	2049.851	2157.966	2097.422	2134.902	1558.291	1376.658	967.265	180.191	33.155
75.0	895.188	1127.274	1373.775	1435.761	1308.907	1085.470	249.384	24.506	5.766	4.325
77.5	320.019	369.031	448.315	536.248	622.740	17.298	5.766	4.325	2.883	2.883
80.0	142.711	161.451	152.802	123.971	47.570	2.883	2.883	1.442	1.442	1.442
82.5	61.986	61.986	40.363	17.298	2.883	1.442	1.442	1.442	1.442	1.442
85.0	25.947	14.415	7.208	1.442	1.442	1.442	1.442	0.000	0.000	0.000
87.5	5.766	1.442	1.442	1.442	1.442	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	997.537	997.537	997.537	997.537	997.537	997.537	997.537
2.5	996.095	997.537	1000.420	1000.420	1003.303	1000.420	996.095
5.0	990.329	990.329	993.212	993.212	994.654	993.212	987.446
7.5	984.563	984.563	986.004	984.563	986.004	984.563	978.797
10.0	983.121	983.121	983.121	984.563	987.446	984.563	981.680
12.5	990.329	993.212	990.329	993.212	996.095	993.212	990.329
15.0	1007.627	1007.627	1004.744	1006.186	1004.744	1000.420	998.978
17.5	1024.926	1023.484	1016.277	1014.835	1013.393	1013.393	1011.952
20.0	1047.990	1045.107	1035.016	1035.016	1036.458	1037.899	1039.341
22.5	1076.821	1072.496	1060.964	1062.405	1066.730	1071.055	1076.821
25.0	1111.417	1101.327	1094.119	1095.561	1101.327	1108.534	1112.859
27.5	1140.248	1131.599	1125.833	1128.716	1134.482	1143.131	1148.897
30.0	1171.961	1166.195	1166.195	1169.078	1176.286	1187.818	1195.026
32.5	1210.883	1205.117	1205.117	1210.883	1220.973	1235.389	1244.038
35.0	1251.245	1242.596	1251.245	1259.895	1274.310	1290.167	1301.699
37.5	1291.608	1295.933	1310.348	1323.322	1337.737	1357.918	1373.775
40.0	1344.945	1357.918	1370.892	1388.191	1408.372	1431.436	1447.293
42.5	1408.372	1422.787	1438.644	1454.501	1474.682	1500.630	1517.928
45.0	1474.682	1487.656	1503.513	1519.369	1539.551	1566.940	1581.355
47.5	1540.992	1548.200	1568.381	1582.797	1602.978	1630.367	1640.458
50.0	1614.510	1618.835	1637.575	1651.990	1670.730	1695.236	1701.002
52.5	1701.002	1701.002	1712.534	1724.066	1729.832	1745.689	1747.131
55.0	1801.909	1793.260	1794.701	1796.143	1784.610	1781.727	1775.961
57.5	1921.556	1908.582	1897.050	1873.985	1829.298	1803.350	1791.818
60.0	2090.214	2061.384	2021.021	1960.477	1885.517	1862.453	1853.804
62.5	2232.925	2147.875	2070.033	1989.307	1915.789	1892.725	1879.751
65.0	2258.873	2149.317	2052.734	1941.737	1777.403	1559.732	1558.291
67.5	2107.512	1650.548	1086.911	599.675	301.279	174.425	129.737
70.0	410.835	206.138	24.506	8.649	5.766	5.766	5.766
72.5	8.649	5.766	4.325	4.325	4.325	4.325	2.883
75.0	4.325	2.883	2.883	2.883	1.442	1.442	1.442
77.5	1.442	1.442	1.442	1.442	1.442	0.000	0.000
80.0	1.442	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

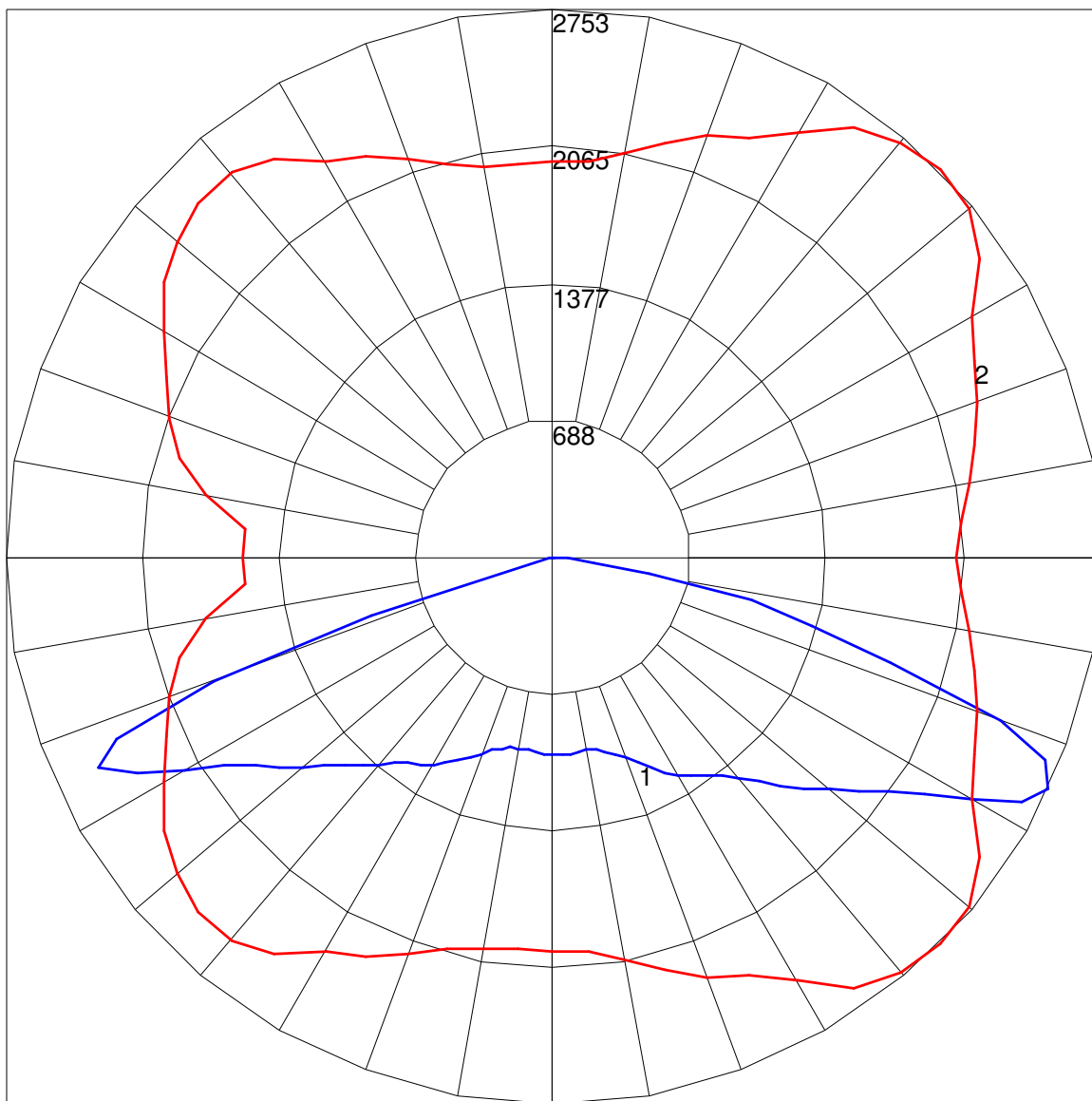
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

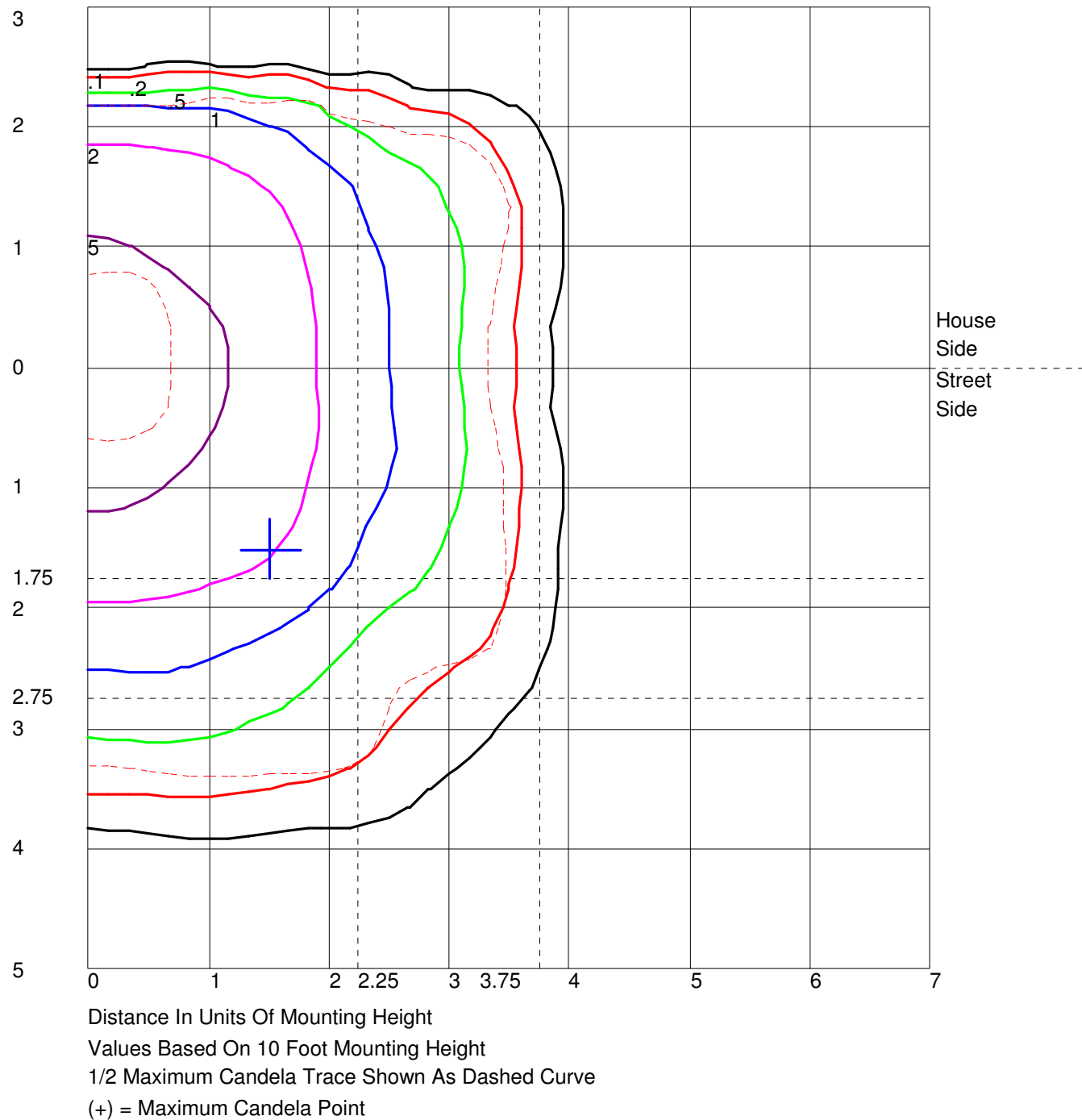
	Lumens	Percent Of Luminaire
Downward Street Side	4323.2	54.8
Downward House Side	3561.8	45.2
Downward Total	7885.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7885.0	100.0

POLAR GRAPH



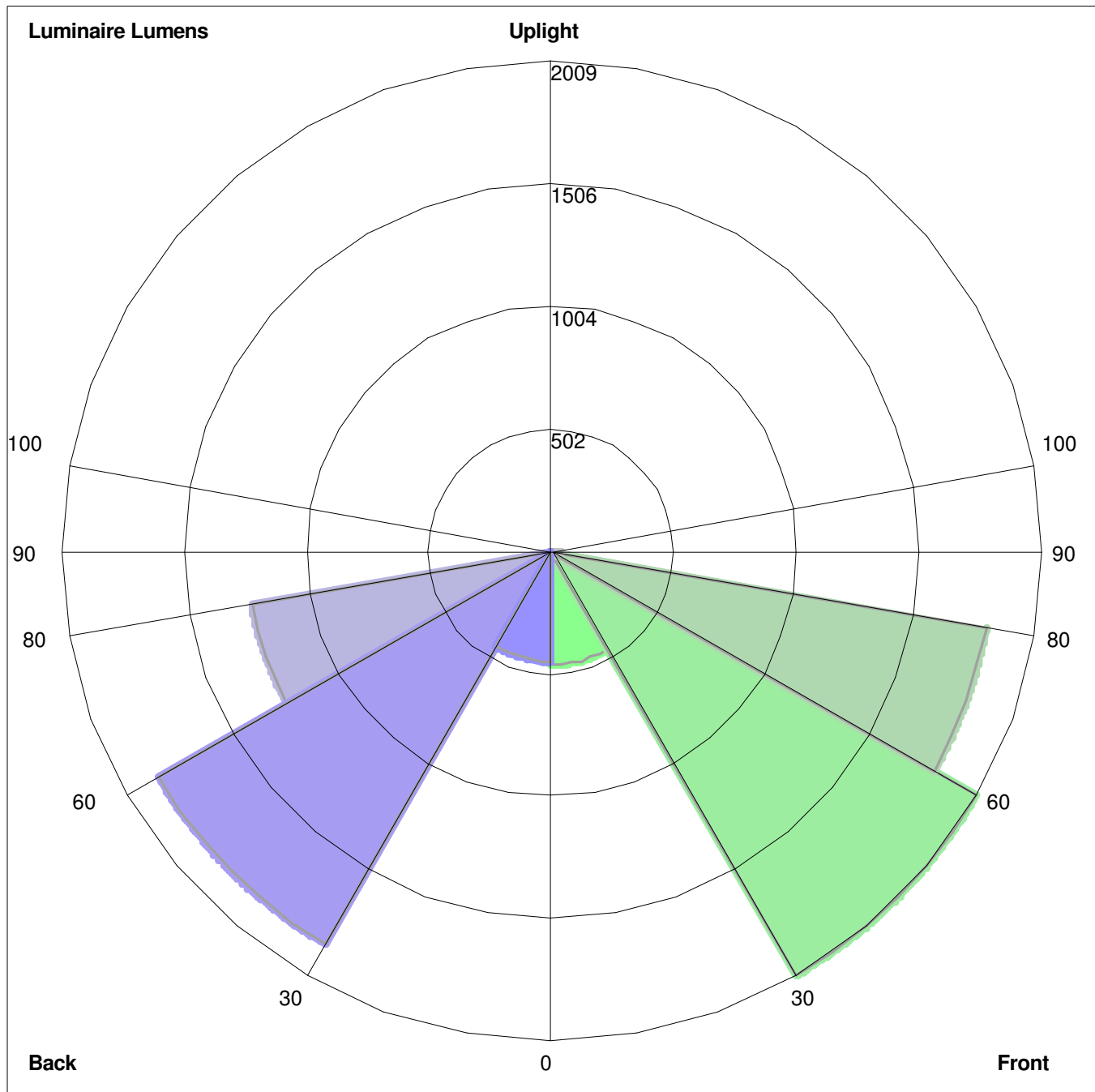
Maximum Candela = 2753.317 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=464.1, Medium=2008.6, High=1809.4, Very High=41.0  
Back: Low=449.9, Medium=1857.3, High=1248.5, Very High=6.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3