



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-850-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-L85-850-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	8145
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2844.084
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	2844.084
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	506.277 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWPX-L85-850-TFT-XXX-CGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	479.4	N.A.	5.9
FM - Front-Medium (30-60)	2074.8	N.A.	25.5
FH - Front-High (60-80)	1869.1	N.A.	22.9
FVH - Front-Very High (80-90)	42.4	N.A.	0.5
BL - Back-Low (0-30)	464.7	N.A.	5.7
BM - Back-Medium (30-60)	1918.6	N.A.	23.6
BH - Back-High (60-80)	1289.7	N.A.	15.8
BVH - Back-Very High (80-90)	6.2	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	8144.9	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles Horizontal Angles

	<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	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422
2.5	1042.334	1039.356	1037.867	1034.889	1031.911	1030.422	1030.422	1031.911	1028.933	1027.444
5.0	1040.845	1036.378	1033.400	1031.911	1030.422	1030.422	1028.933	1030.422	1027.444	1027.444
7.5	1040.845	1036.378	1031.911	1031.911	1030.422	1030.422	1028.933	1027.444	1024.466	1022.977
10.0	1045.312	1039.356	1034.889	1036.378	1033.400	1033.400	1031.911	1030.422	1025.955	1022.977
12.5	1058.714	1051.269	1048.290	1049.780	1046.801	1045.312	1043.823	1039.356	1033.400	1028.933
15.0	1078.071	1067.648	1066.159	1072.115	1072.115	1069.137	1067.648	1063.181	1055.736	1048.290
17.5	1103.385	1091.473	1084.028	1091.473	1092.962	1094.451	1097.429	1094.451	1085.517	1078.071
20.0	1145.079	1134.655	1122.743	1124.232	1121.254	1125.721	1128.699	1130.188	1122.743	1115.298
22.5	1198.684	1188.261	1173.371	1170.392	1162.947	1165.925	1167.414	1168.903	1164.436	1158.480
25.0	1256.757	1249.312	1229.954	1223.998	1213.575	1215.064	1212.086	1215.064	1209.108	1206.130
27.5	1316.319	1304.407	1285.049	1279.093	1265.692	1267.181	1258.246	1258.246	1256.757	1261.224
30.0	1387.794	1378.859	1353.546	1341.633	1326.743	1320.786	1305.896	1307.385	1304.407	1305.896
32.5	1468.202	1453.312	1433.954	1417.575	1398.217	1381.837	1362.480	1359.502	1350.567	1346.100
35.0	1554.567	1542.655	1521.808	1503.939	1477.137	1456.290	1430.976	1417.575	1404.173	1389.283
37.5	1634.976	1626.041	1605.195	1590.304	1560.523	1535.209	1505.428	1475.648	1457.779	1441.399
40.0	1712.406	1706.450	1684.114	1670.713	1642.421	1614.129	1581.370	1548.611	1524.786	1502.450
42.5	1792.815	1785.370	1764.523	1748.143	1721.341	1690.071	1658.801	1629.020	1602.217	1582.859
45.0	1865.778	1859.822	1844.932	1828.552	1801.749	1768.990	1739.209	1709.428	1690.071	1676.669
47.5	1934.275	1928.318	1920.873	1910.450	1885.136	1847.910	1821.107	1791.326	1779.414	1777.924
50.0	1972.990	1974.479	1977.457	1983.413	1971.501	1934.275	1914.917	1891.092	1880.669	1885.136
52.5	1981.924	1990.858	2014.683	2041.486	2050.420	2025.107	2019.150	2005.749	1995.326	2001.282
55.0	1998.304	2008.727	2050.420	2099.559	2130.829	2124.873	2129.340	2136.785	2129.340	2130.829
57.5	2075.734	2095.092	2132.318	2196.347	2241.019	2254.420	2267.822	2296.113	2299.092	2290.157
60.0	2166.566	2190.391	2233.573	2312.493	2372.055	2409.281	2436.084	2498.624	2529.894	2519.471
62.5	2178.479	2205.282	2258.887	2337.807	2388.435	2450.975	2517.982	2660.930	2739.850	2745.806
65.0	2102.537	2133.807	2194.858	2275.267	2342.274	2418.216	2510.537	2716.025	2826.215	2844.084
67.5	2057.866	2095.092	2191.880	2264.843	2294.624	2313.982	2394.391	2634.128	2769.631	2772.609
70.0	1987.880	2034.041	2157.632	2248.464	2291.646	2264.843	2284.201	2379.500	2485.223	2482.245
72.5	1679.647	1718.362	1929.807	2074.245	2144.230	2090.625	2157.632	2062.333	1928.318	1847.910
75.0	717.722	743.035	902.364	1089.984	1256.757	1401.195	1591.793	1682.625	1466.713	1395.239
77.5	259.095	265.051	297.810	335.036	422.890	603.065	871.094	1027.444	1014.042	1052.758
80.0	105.722	108.701	123.591	144.438	183.153	238.248	348.437	451.182	477.985	506.277
82.5	43.182	44.671	52.117	58.073	77.431	102.744	147.416	186.131	196.554	218.890
85.0	16.380	16.380	17.869	20.847	26.803	35.737	53.606	68.496	69.985	81.898
87.5	4.467	4.467	4.467	4.467	4.467	4.467	5.956	5.956	8.934	11.912
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>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	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422
2.5	1025.955	1024.466	1027.444	1028.933	1025.955	1022.977	1022.977	1022.977	1022.977	1022.977
5.0	1022.977	1021.488	1024.466	1024.466	1021.488	1017.020	1014.042	1014.042	1012.553	1014.042
7.5	1021.488	1017.020	1019.999	1018.509	1015.531	1009.575	1005.108	1005.108	1003.619	1003.619
10.0	1021.488	1014.042	1017.020	1018.509	1018.509	1012.553	1006.597	1005.108	1003.619	1002.130
12.5	1027.444	1022.977	1025.955	1025.955	1027.444	1021.488	1015.531	1012.553	1009.575	1008.086
15.0	1048.290	1045.312	1046.801	1045.312	1043.823	1039.356	1030.422	1022.977	1019.999	1018.509
17.5	1075.093	1073.604	1072.115	1069.137	1063.181	1054.247	1048.290	1042.334	1040.845	1039.356
20.0	1110.831	1109.341	1107.852	1098.918	1091.473	1081.050	1076.582	1075.093	1075.093	1073.604
22.5	1154.013	1145.079	1142.101	1134.655	1127.210	1121.254	1119.765	1118.276	1118.276	1116.787
25.0	1203.152	1188.261	1185.283	1179.327	1173.371	1174.860	1174.860	1173.371	1173.371	1167.414
27.5	1252.290	1234.422	1226.976	1222.509	1221.020	1226.976	1226.976	1228.465	1231.443	1222.509

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CANDELA TABULATION - (Cont.)

30.0	1305.896	1285.049	1270.159	1271.648	1273.137	1283.560	1283.560	1286.538	1293.984	1285.049
32.5	1352.056	1341.633	1319.297	1322.275	1326.743	1340.144	1347.589	1355.035	1363.969	1352.056
35.0	1395.239	1396.728	1377.370	1381.837	1392.261	1408.640	1419.064	1432.465	1444.377	1430.976
37.5	1441.399	1451.823	1447.356	1454.801	1469.691	1490.538	1503.939	1518.830	1521.808	1517.341
40.0	1500.961	1518.830	1524.786	1539.677	1553.078	1572.436	1593.282	1608.173	1608.173	1605.195
42.5	1573.925	1593.282	1602.217	1623.063	1639.443	1654.333	1673.691	1685.603	1681.136	1682.625
45.0	1661.779	1675.180	1687.092	1706.450	1722.830	1736.231	1746.654	1746.654	1740.698	1743.676
47.5	1763.034	1764.523	1767.501	1789.837	1804.727	1825.574	1830.041	1821.107	1812.173	1819.618
50.0	1876.202	1868.756	1861.311	1876.202	1891.092	1913.428	1908.961	1889.603	1877.691	1888.114
52.5	1998.304	1984.902	1968.523	1978.946	1984.902	1990.858	1962.567	1928.318	1917.895	1932.786
55.0	2130.829	2124.873	2095.092	2086.158	2074.245	2054.888	1989.369	1928.318	1910.450	1928.318
57.5	2300.581	2291.646	2241.019	2217.194	2176.990	2133.807	2037.019	1968.523	1953.632	1959.588
60.0	2526.916	2513.515	2430.128	2375.033	2313.982	2241.019	2126.362	2059.355	2045.953	2047.442
62.5	2732.405	2684.755	2538.828	2427.150	2349.719	2249.953	2130.829	2062.333	2045.953	2048.931
65.0	2817.281	2733.894	2546.274	2404.814	2327.384	2230.595	2130.829	2066.800	2054.888	2048.931
67.5	2772.609	2672.843	2458.420	2357.165	2339.296	2269.311	2174.011	2068.289	2044.464	2042.975
70.0	2540.318	2452.464	2349.719	2352.697	2398.858	2349.719	2214.216	2042.975	2001.282	2008.727
72.5	1923.851	2117.428	2270.800	2229.106	2276.756	2194.858	1989.369	1748.143	1696.027	1737.720
75.0	1497.983	1757.078	1725.808	1562.012	1320.786	1167.414	917.254	743.035	747.503	741.546
77.5	1036.378	1051.269	927.678	693.897	442.248	390.131	327.591	282.919	288.875	282.919
80.0	492.875	469.050	370.773	278.452	204.000	183.153	150.394	131.036	129.547	123.591
82.5	205.489	202.511	166.773	128.058	98.277	80.409	67.007	58.073	59.562	59.562
85.0	78.920	81.898	68.496	53.606	40.204	34.248	28.292	26.803	25.314	25.314
87.5	14.890	19.358	14.890	13.401	11.912	10.423	8.934	7.445	7.445	7.445
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	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422
2.5	1022.977	1021.488	1021.488	1019.999	1021.488	1025.955	1022.977	1022.977	1025.955	1030.422
5.0	1012.553	1011.064	1012.553	1015.531	1015.531	1019.999	1018.509	1018.509	1021.488	1024.466
7.5	1002.130	1002.130	1006.597	1009.575	1011.064	1014.042	1014.042	1012.553	1015.531	1019.999
10.0	1002.130	1003.619	1008.086	1011.064	1009.575	1011.064	1011.064	1011.064	1014.042	1017.020
12.5	1009.575	1012.553	1018.509	1019.999	1018.509	1014.042	1014.042	1014.042	1018.509	1022.977
15.0	1021.488	1027.444	1031.911	1036.378	1034.889	1033.400	1031.911	1031.911	1033.400	1039.356
17.5	1039.356	1040.845	1048.290	1055.736	1055.736	1058.714	1057.225	1055.736	1055.736	1060.203
20.0	1070.626	1069.137	1072.115	1082.539	1084.028	1087.006	1087.006	1088.495	1085.517	1085.517
22.5	1112.320	1110.831	1110.831	1118.276	1121.254	1121.254	1121.254	1122.743	1119.765	1116.787
25.0	1168.903	1165.925	1158.480	1162.947	1162.947	1161.458	1165.925	1164.436	1161.458	1155.502
27.5	1226.976	1219.531	1210.597	1210.597	1204.641	1203.152	1216.553	1212.086	1204.641	1192.728
30.0	1285.049	1274.626	1262.714	1255.268	1249.312	1250.801	1259.735	1250.801	1240.378	1226.976
32.5	1347.589	1331.210	1319.297	1307.385	1296.962	1301.429	1296.962	1285.049	1273.137	1264.203
35.0	1423.531	1404.173	1384.816	1369.925	1350.567	1343.122	1334.188	1313.341	1304.407	1296.962
37.5	1511.385	1490.538	1471.180	1441.399	1410.129	1395.239	1374.392	1355.035	1341.633	1335.677
40.0	1597.750	1576.903	1557.545	1523.297	1478.626	1448.845	1423.531	1405.662	1390.772	1387.794
42.5	1675.180	1652.844	1637.954	1597.750	1556.056	1514.363	1483.093	1465.224	1451.823	1451.823
45.0	1748.143	1734.742	1712.406	1670.713	1629.020	1585.837	1551.589	1536.699	1526.275	1520.319
47.5	1828.552	1822.596	1792.815	1748.143	1704.961	1657.311	1633.487	1612.640	1602.217	1590.304
50.0	1904.494	1907.472	1877.691	1833.019	1788.348	1739.209	1725.808	1701.983	1682.625	1667.735
52.5	1965.545	1980.435	1965.545	1916.406	1885.136	1843.443	1824.085	1791.326	1776.435	1758.567
55.0	1978.946	2025.107	2039.997	2014.683	1995.326	1959.588	1934.275	1897.048	1885.136	1871.735
57.5	2008.727	2062.333	2115.939	2121.895	2111.471	2093.603	2069.778	2023.618	2010.216	2002.771
60.0	2086.158	2136.785	2217.194	2255.909	2255.909	2273.778	2263.354	2214.216	2194.858	2179.968
62.5	2083.179	2141.252	2227.617	2305.048	2372.055	2452.464	2471.821	2431.617	2418.216	2380.989
65.0	2065.311	2108.493	2200.814	2296.113	2367.588	2522.449	2605.836	2604.347	2547.763	2479.267

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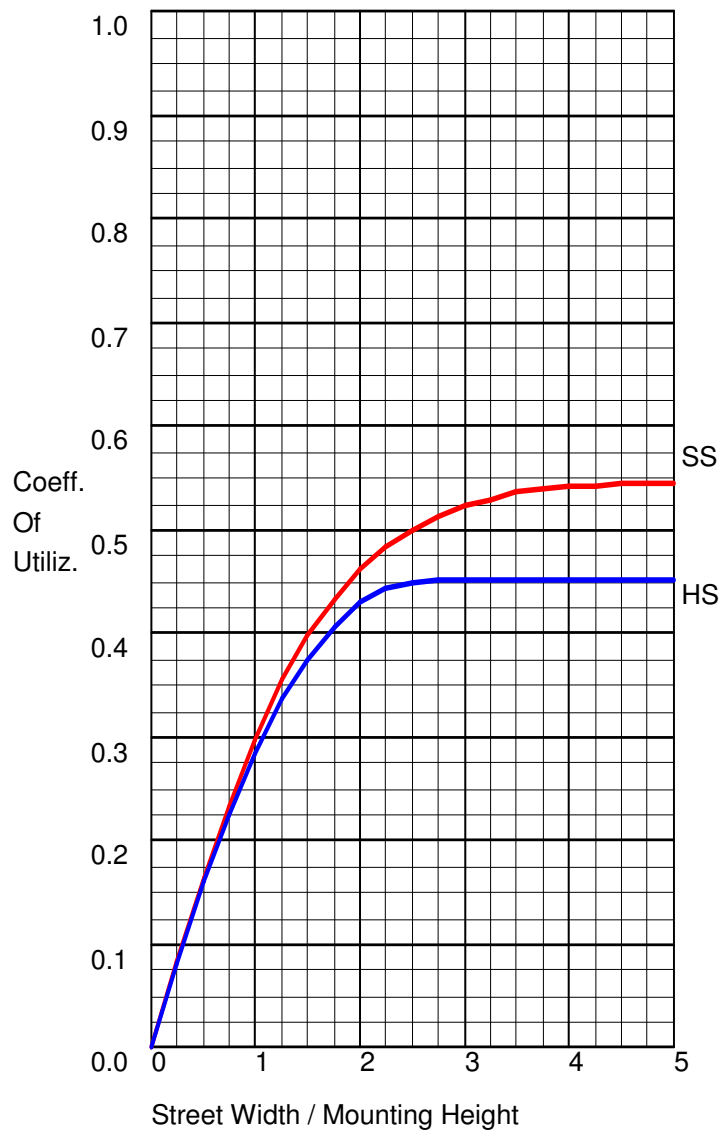
CANDELA TABULATION - (Cont.)

67.5	2086.158	2150.187	2197.836	2229.106	2290.157	2512.026	2625.193	2459.909	2285.690	2197.836
70.0	2084.669	2197.836	2241.019	2223.150	2209.749	2333.340	2053.399	1883.647	2042.975	1235.911
72.5	1911.939	2117.428	2229.106	2166.566	2205.282	1609.662	1422.042	999.152	186.131	34.248
75.0	924.699	1164.436	1419.064	1483.093	1352.056	1121.254	257.605	25.314	5.956	4.467
77.5	330.569	381.197	463.094	553.926	643.269	17.869	5.956	4.467	2.978	2.978
80.0	147.416	166.773	157.839	128.058	49.139	2.978	2.978	1.489	1.489	1.489
82.5	64.029	64.029	41.693	17.869	2.978	1.489	1.489	1.489	1.489	1.489
85.0	26.803	14.890	7.445	1.489	1.489	1.489	1.489	0.000	0.000	0.000
87.5	5.956	1.489	1.489	1.489	1.489	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	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422	1030.422
2.5	1028.933	1030.422	1033.400	1033.400	1036.378	1033.400	1028.933
5.0	1022.977	1022.977	1025.955	1025.955	1027.444	1025.955	1019.999
7.5	1017.020	1017.020	1018.509	1017.020	1018.509	1017.020	1011.064
10.0	1015.531	1015.531	1015.531	1017.020	1019.999	1017.020	1014.042
12.5	1022.977	1025.955	1022.977	1025.955	1028.933	1025.955	1022.977
15.0	1040.845	1040.845	1037.867	1039.356	1037.867	1033.400	1031.911
17.5	1058.714	1057.225	1049.780	1048.290	1046.801	1046.801	1045.312
20.0	1082.539	1079.560	1069.137	1069.137	1070.626	1072.115	1073.604
22.5	1112.320	1107.852	1095.940	1097.429	1101.896	1106.363	1112.320
25.0	1148.057	1137.633	1130.188	1131.677	1137.633	1145.079	1149.546
27.5	1177.838	1168.903	1162.947	1165.925	1171.882	1180.816	1186.772
30.0	1210.597	1204.641	1204.641	1207.619	1215.064	1226.976	1234.422
32.5	1250.801	1244.845	1244.845	1250.801	1261.224	1276.115	1285.049
35.0	1292.494	1283.560	1292.494	1301.429	1316.319	1332.699	1344.611
37.5	1334.188	1338.655	1353.546	1366.947	1381.837	1402.684	1419.064
40.0	1389.283	1402.684	1416.086	1433.954	1454.801	1478.626	1495.005
42.5	1454.801	1469.691	1486.071	1502.450	1523.297	1550.100	1567.969
45.0	1523.297	1536.699	1553.078	1569.458	1590.304	1618.596	1633.487
47.5	1591.793	1599.239	1620.085	1634.976	1655.822	1684.114	1694.538
50.0	1667.735	1672.202	1691.560	1706.450	1725.808	1751.122	1757.078
52.5	1757.078	1757.078	1768.990	1780.903	1786.859	1803.238	1804.727
55.0	1861.311	1852.377	1853.866	1855.355	1843.443	1840.465	1834.508
57.5	1984.902	1971.501	1959.588	1935.764	1889.603	1862.800	1850.888
60.0	2159.121	2129.340	2087.647	2025.107	1947.676	1923.851	1914.917
62.5	2306.537	2218.683	2138.274	2054.888	1978.946	1955.121	1941.720
65.0	2333.340	2220.172	2120.406	2005.749	1835.997	1611.151	1609.662
67.5	2176.990	1704.961	1122.743	619.444	311.211	180.175	134.014
70.0	424.379	212.934	25.314	8.934	5.956	5.956	5.956
72.5	8.934	5.956	4.467	4.467	4.467	4.467	2.978
75.0	4.467	2.978	2.978	2.978	1.489	1.489	1.489
77.5	1.489	1.489	1.489	1.489	1.489	0.000	0.000
80.0	1.489	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

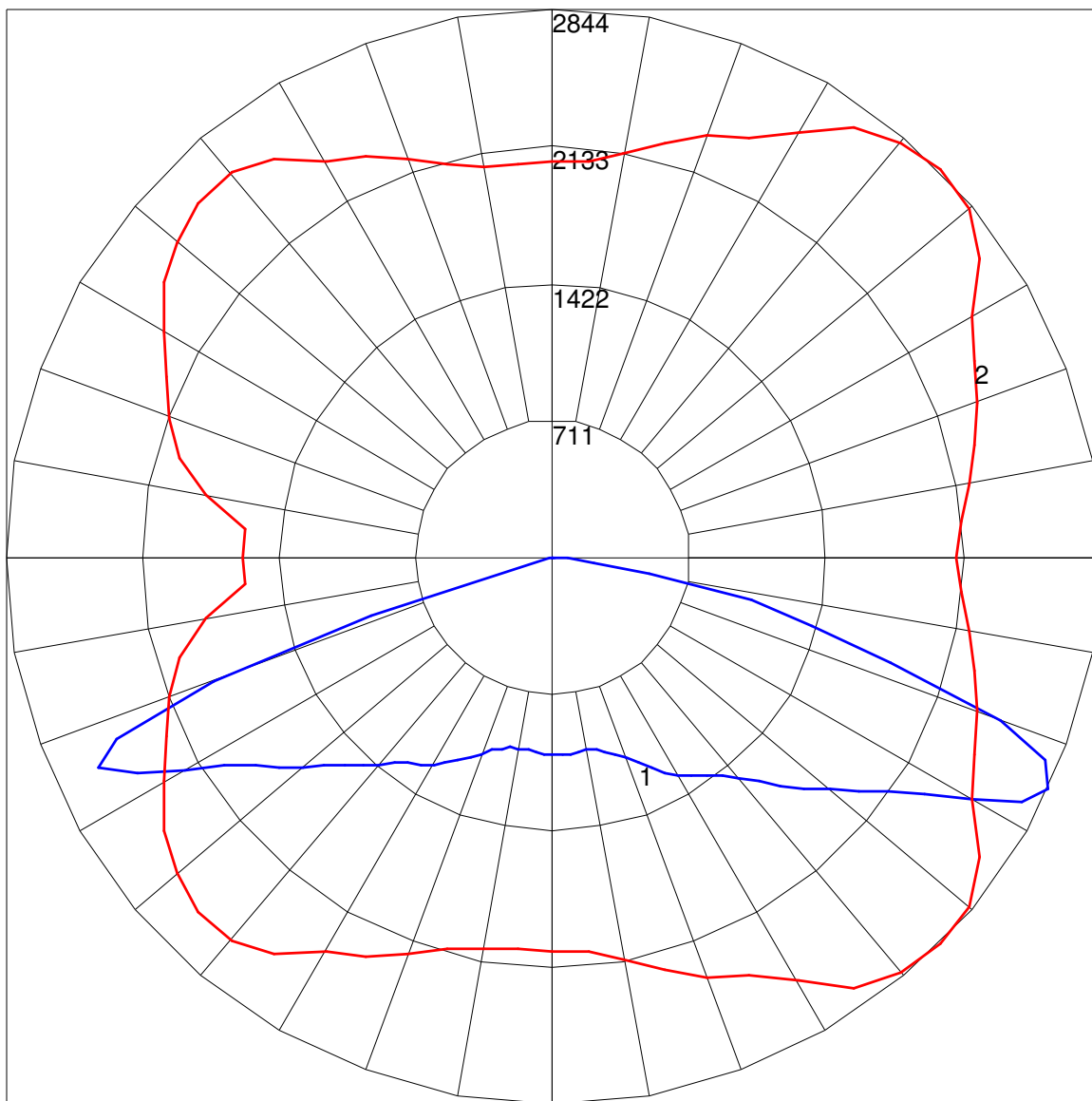
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

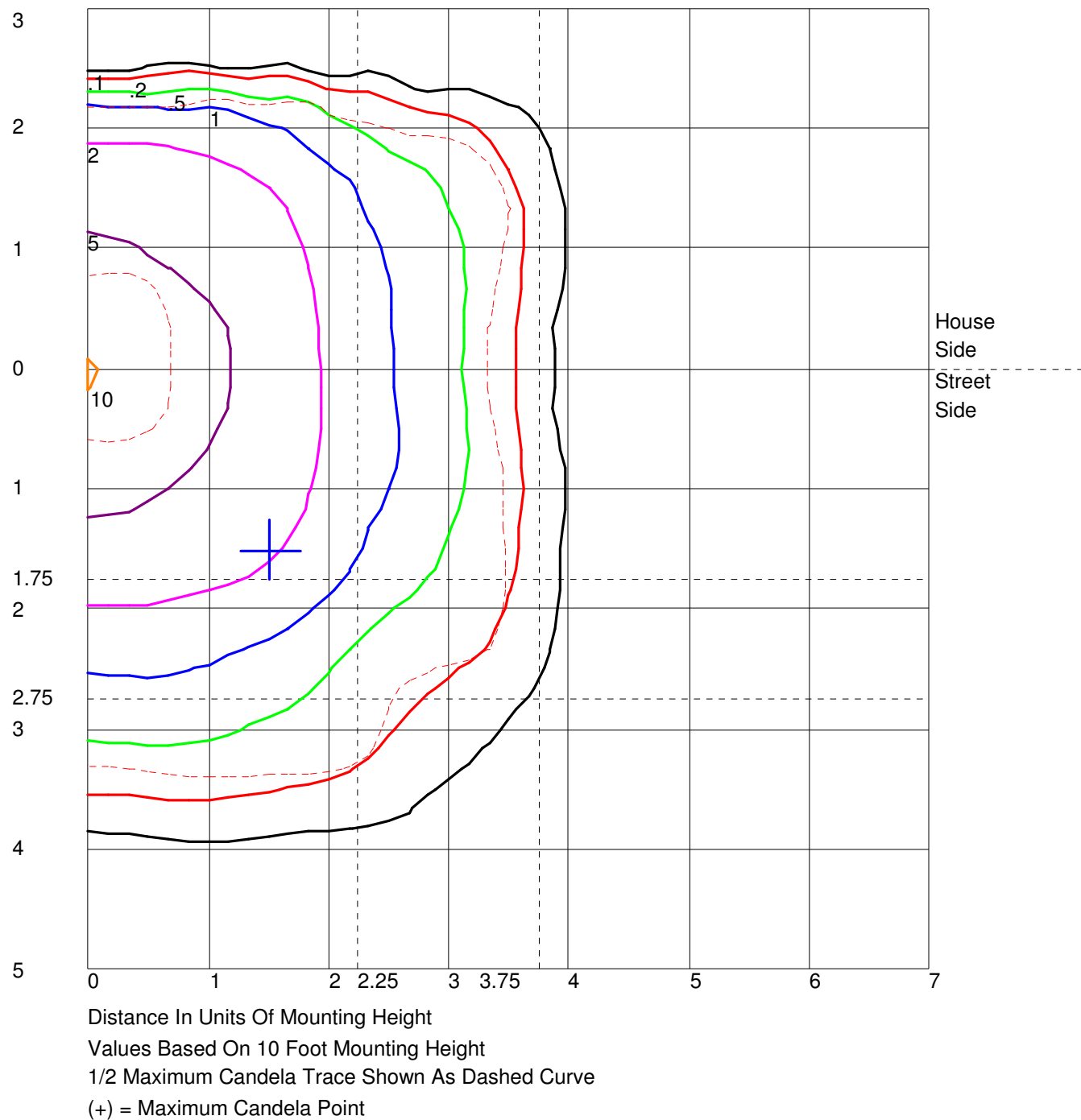
	Lumens	Percent Of Luminaire
Downward Street Side	4465.7	54.8
Downward House Side	3679.2	45.2
Downward Total	8144.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8144.9	100.0

POLAR GRAPH

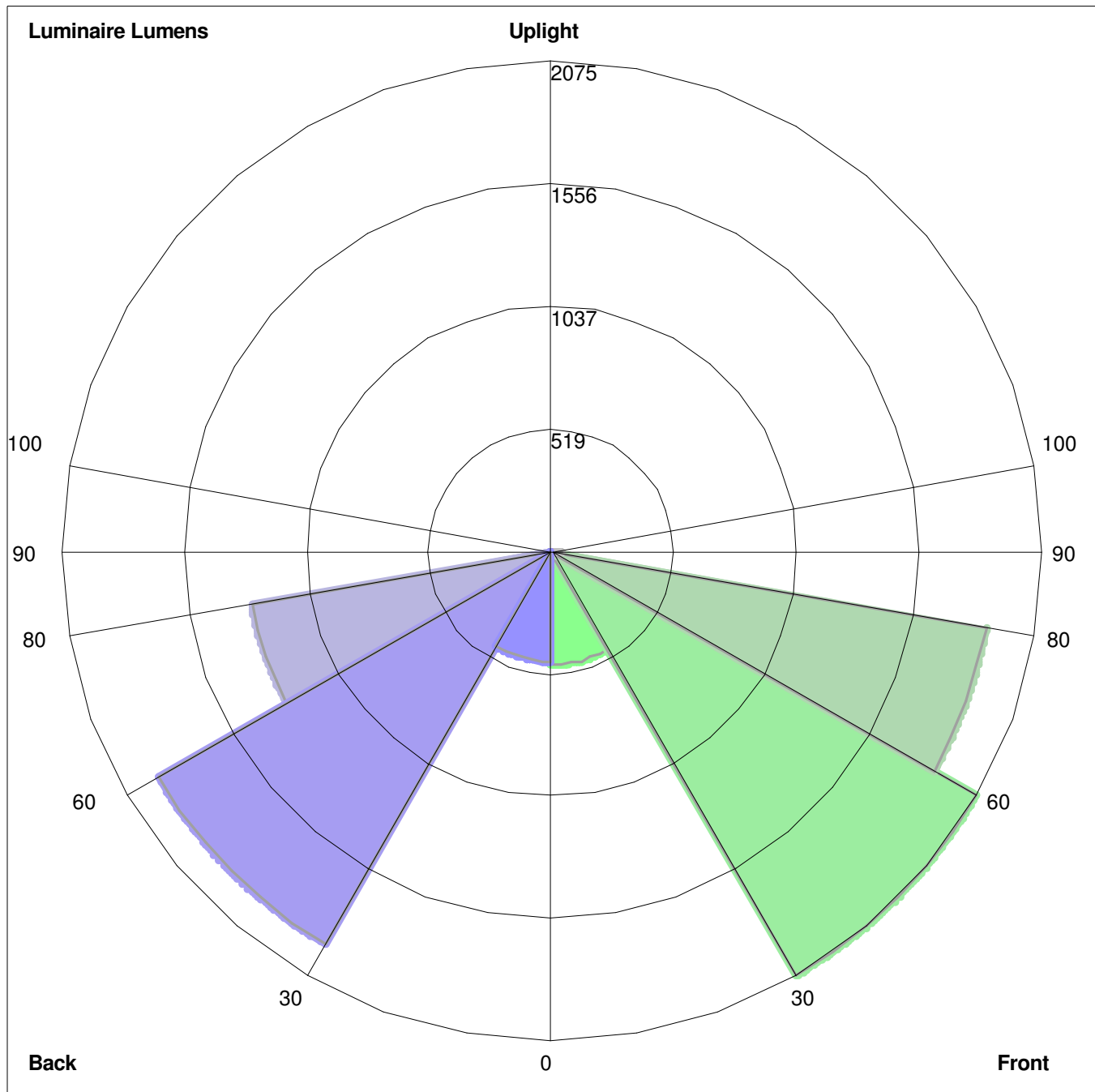


Maximum Candela = 2844.084 Located At Horizontal Angle = 45, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=479.4, Medium=2074.8, High=1869.1, Very High=42.4
Back: Low=464.7, Medium=1918.6, High=1289.7, Very High=6.2
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3