



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L85-850-TFT-XXX-SDGL-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL009421  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 2024-02-01  
[TEST DATE] 07/14/15  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] VWPx-L85-850-TFT-xxx-SDGL-DIM-UNV  
[LUMINAIRE] CAST ALUMINUM LED WALL PACK  
[MORE] FORWARD THROW DISTRIBUTION WITH  
[MORE] MICRO-PRISMATIC 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	7982
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	72
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2196.444
Maximum Candela Angle	52.5H 57.5V
Maximum Candela (<90 Degrees Vertical)	2196.444
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 57.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	608.197 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L85-850-TFT-XXX-SDGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	555.5	N.A.	7.0
FM - Front-Medium (30-60)	2218.3	N.A.	27.8
FH - Front-High (60-80)	1409.1	N.A.	17.7
FVH - Front-Very High (80-90)	107.8	N.A.	1.4
BL - Back-Low (0-30)	538.1	N.A.	6.7
BM - Back-Medium (30-60)	2102.3	N.A.	26.3
BH - Back-High (60-80)	1028.1	N.A.	12.9
BVH - Back-Very High (80-90)	22.3	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7981.5	N.A.	100.0
BUG Rating	B3-U0-G3		

**IES ROAD REPORT**  
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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0.0</u>	<u>5.0</u>	<u>10.0</u>	<u>15.0</u>	<u>20.0</u>	<u>25.0</u>	<u>30.0</u>	<u>35.0</u>	<u>40.0</u>	<u>45.0</u>
<b>0.0</b>	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790
<b>2.5</b>	1229.000	1225.849	1219.546	1213.244	1213.244	1213.244	1216.395	1210.092	1210.092	1206.941
<b>5.0</b>	1210.092	1206.941	1200.638	1194.336	1191.185	1191.185	1191.185	1188.033	1184.882	1188.033
<b>7.5</b>	1241.605	1235.303	1229.000	1219.546	1210.092	1206.941	1206.941	1200.638	1191.185	1188.033
<b>10.0</b>	1222.697	1216.395	1206.941	1194.336	1191.185	1197.487	1203.790	1206.941	1206.941	1210.092
<b>12.5</b>	1241.605	1232.151	1216.395	1210.092	1206.941	1216.395	1216.395	1213.244	1203.790	1206.941
<b>15.0</b>	1244.756	1238.454	1225.849	1229.000	1235.303	1244.756	1244.756	1244.756	1232.151	1229.000
<b>17.5</b>	1279.421	1273.118	1257.362	1260.513	1260.513	1266.815	1269.967	1273.118	1266.815	1273.118
<b>20.0</b>	1310.933	1298.328	1285.723	1288.874	1295.177	1298.328	1314.085	1314.085	1314.085	1317.236
<b>22.5</b>	1358.203	1348.749	1339.295	1339.295	1326.690	1336.144	1339.295	1355.051	1361.354	1358.203
<b>25.0</b>	1405.472	1396.018	1392.867	1389.715	1377.110	1383.413	1380.262	1389.715	1396.018	1402.321
<b>27.5</b>	1481.103	1474.800	1462.195	1449.590	1433.833	1427.531	1421.228	1443.287	1449.590	1436.985
<b>30.0</b>	1544.128	1537.826	1531.523	1518.918	1509.464	1487.405	1481.103	1490.556	1484.254	1487.405
<b>32.5</b>	1619.759	1622.910	1619.759	1600.851	1572.490	1556.733	1540.977	1544.128	1534.674	1528.372
<b>35.0</b>	1714.297	1714.297	1707.995	1689.087	1651.272	1635.515	1619.759	1604.003	1604.003	1591.397
<b>37.5</b>	1811.987	1799.382	1786.777	1774.172	1739.508	1717.449	1689.087	1689.087	1663.877	1660.726
<b>40.0</b>	1900.223	1893.921	1875.013	1871.862	1824.592	1808.836	1786.777	1771.021	1745.810	1742.659
<b>42.5</b>	1960.097	1963.249	1947.492	1960.097	1925.433	1915.979	1887.618	1862.408	1843.500	1821.441
<b>45.0</b>	2026.274	2035.728	2019.972	2035.728	2016.821	2019.972	1991.610	1963.249	1931.736	1928.585
<b>47.5</b>	2089.300	2098.754	2095.603	2101.905	2089.300	2092.451	2060.938	2051.485	2019.972	2023.123
<b>50.0</b>	2105.056	2120.813	2127.115	2123.964	2130.267	2130.267	2127.115	2108.208	2108.208	2086.149
<b>52.5</b>	2076.695	2095.603	2101.905	2108.208	2146.023	2146.023	2152.326	2139.721	2142.872	2142.872
<b>55.0</b>	2035.728	2051.485	2057.787	2079.846	2133.418	2133.418	2149.174	2161.780	2171.233	2180.687
<b>57.5</b>	1956.946	1972.703	1997.913	2042.031	2076.695	2089.300	2136.569	2152.326	2177.536	2180.687
<b>60.0</b>	1871.862	1884.467	1909.677	1956.946	1988.459	2035.728	2082.997	2120.813	2146.023	2158.628
<b>62.5</b>	1742.659	1771.021	1793.079	1837.197	1893.921	1941.190	1985.308	2029.426	2082.997	2095.603
<b>65.0</b>	1604.003	1626.062	1651.272	1701.692	1752.113	1802.533	1849.803	1897.072	1963.249	1988.459
<b>67.5</b>	1443.287	1449.590	1481.103	1525.221	1563.036	1610.305	1660.726	1717.449	1789.928	1818.290
<b>70.0</b>	1238.454	1238.454	1266.815	1307.782	1336.144	1383.413	1436.985	1493.708	1556.733	1600.851
<b>72.5</b>	1008.410	1008.410	1033.621	1074.587	1102.949	1143.915	1210.092	1241.605	1304.631	1345.597
<b>75.0</b>	781.518	781.518	809.879	850.846	879.208	910.721	973.746	1011.562	1055.679	1084.041
<b>77.5</b>	576.685	576.685	601.895	639.710	664.921	693.282	743.703	775.215	803.577	831.938
<b>80.0</b>	397.062	393.910	415.969	444.331	463.238	491.600	532.567	548.323	567.231	589.290
<b>82.5</b>	242.649	239.497	258.405	271.010	293.069	305.674	334.036	343.490	356.095	368.700
<b>85.0</b>	116.597	113.446	126.051	129.203	144.959	148.110	167.018	176.472	176.472	182.774
<b>87.5</b>	31.513	31.513	34.664	34.664	40.967	37.815	47.269	50.421	50.421	53.572
<b>90.0</b>	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>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>60.0</u>	<u>65.0</u>	<u>70.0</u>	<u>75.0</u>	<u>80.0</u>	<u>85.0</u>	<u>90.0</u>
<b>0.0</b>	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790
<b>2.5</b>	1206.941	1206.941	1210.092	1213.244	1213.244	1210.092	1206.941	1203.790	1203.790	1200.638
<b>5.0</b>	1191.185	1194.336	1197.487	1203.790	1210.092	1210.092	1210.092	1206.941	1200.638	1194.336
<b>7.5</b>	1188.033	1188.033	1188.033	1191.185	1200.638	1206.941	1210.092	1210.092	1206.941	1200.638
<b>10.0</b>	1206.941	1200.638	1197.487	1188.033	1184.882	1191.185	1200.638	1203.790	1200.638	1191.185
<b>12.5</b>	1216.395	1216.395	1216.395	1203.790	1191.185	1194.336	1197.487	1210.092	1210.092	1203.790
<b>15.0</b>	1229.000	1232.151	1235.303	1247.908	1238.454	1232.151	1222.697	1232.151	1229.000	1216.395
<b>17.5</b>	1276.269	1269.967	1266.815	1263.664	1263.664	1251.059	1241.605	1244.756	1244.756	1235.303
<b>20.0</b>	1314.085	1310.933	1304.631	1288.874	1279.421	1279.421	1266.815	1266.815	1276.269	1269.967
<b>22.5</b>	1348.749	1339.295	1339.295	1336.144	1323.538	1323.538	1307.782	1301.479	1310.933	1307.782
<b>25.0</b>	1392.867	1389.715	1383.413	1383.413	1367.656	1361.354	1355.051	1345.597	1355.051	1358.203
<b>27.5</b>	1440.136	1436.985	1430.682	1418.077	1414.926	1408.623	1405.472	1411.774	1414.926	1414.926

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## CANDELA TABULATION - (Cont.)

30.0	1484.254	1477.951	1468.497	1468.497	1462.195	1468.497	1468.497	1484.254	1487.405	1487.405
32.5	1518.918	1515.767	1515.767	1528.372	1534.674	1522.069	1531.523	1544.128	1544.128	1550.431
35.0	1588.246	1585.095	1578.792	1591.397	1588.246	1600.851	1613.456	1622.910	1622.910	1644.969
37.5	1654.423	1654.423	1654.423	1663.877	1663.877	1689.087	1701.692	1698.541	1707.995	1717.449
40.0	1736.356	1739.508	1742.659	1748.962	1748.962	1774.172	1789.928	1793.079	1808.836	1811.987
42.5	1837.197	1840.349	1837.197	1843.500	1846.651	1878.164	1881.315	1887.618	1887.618	1890.769
45.0	1925.433	1928.585	1925.433	1928.585	1944.341	1966.400	1966.400	1960.097	1960.097	1956.946
47.5	2013.669	2010.518	2007.367	2016.821	2019.972	2029.426	2023.123	2019.972	2007.367	2010.518
50.0	2089.300	2086.149	2086.149	2089.300	2086.149	2095.603	2082.997	2060.938	2045.182	2048.333
52.5	2139.721	2142.872	2142.872	2130.267	2127.115	2120.813	2098.754	2082.997	2057.787	2051.485
55.0	2174.385	2183.838	2180.687	2161.780	2142.872	2127.115	2092.451	2076.695	2045.182	2035.728
57.5	2190.141	2196.444	2190.141	2158.628	2133.418	2108.208	2067.241	2029.426	2001.064	1985.308
60.0	2171.233	2171.233	2168.082	2120.813	2098.754	2064.090	2010.518	1972.703	1919.131	1909.677
62.5	2120.813	2117.662	2108.208	2079.846	2029.426	1997.913	1938.038	1887.618	1837.197	1824.592
65.0	2013.669	2013.669	2007.367	1988.459	1925.433	1890.769	1840.349	1780.474	1733.205	1704.844
67.5	1840.349	1846.651	1849.803	1821.441	1780.474	1736.356	1685.936	1629.213	1594.549	1559.885
70.0	1622.910	1629.213	1632.364	1610.305	1575.641	1550.431	1493.708	1443.287	1405.472	1367.656
72.5	1373.959	1377.110	1377.110	1361.354	1332.992	1310.933	1266.815	1216.395	1175.428	1140.764
75.0	1102.949	1102.949	1115.554	1096.646	1084.041	1049.377	1024.167	957.990	917.023	885.510
77.5	838.241	853.997	853.997	831.938	819.333	794.123	765.762	709.038	674.374	661.769
80.0	592.441	608.197	592.441	586.138	576.685	551.474	532.567	491.600	466.390	460.087
82.5	371.851	384.456	375.003	368.700	371.851	346.641	337.187	308.826	296.221	293.069
85.0	185.926	195.379	198.531	185.926	192.228	176.472	176.472	160.715	154.413	154.413
87.5	53.572	59.874	63.026	56.723	63.026	56.723	59.874	53.572	56.723	56.723
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>95.0</u>	<u>100.0</u>	<u>105.0</u>	<u>110.0</u>	<u>115.0</u>	<u>120.0</u>	<u>125.0</u>	<u>130.0</u>	<u>135.0</u>	<u>140.0</u>
0.0	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790
2.5	1197.487	1194.336	1194.336	1194.336	1194.336	1194.336	1194.336	1194.336	1191.185	1191.185
5.0	1191.185	1184.882	1184.882	1184.882	1184.882	1191.185	1200.638	1203.790	1210.092	1213.244
7.5	1197.487	1191.185	1191.185	1194.336	1200.638	1210.092	1216.395	1210.092	1203.790	1200.638
10.0	1184.882	1184.882	1194.336	1203.790	1210.092	1206.941	1203.790	1194.336	1188.033	1188.033
12.5	1194.336	1200.638	1206.941	1206.941	1197.487	1191.185	1191.185	1188.033	1200.638	1206.941
15.0	1206.941	1216.395	1222.697	1216.395	1210.092	1203.790	1210.092	1213.244	1213.244	1206.941
17.5	1219.546	1222.697	1229.000	1222.697	1222.697	1235.303	1244.756	1244.756	1241.605	1238.454
20.0	1263.664	1254.210	1254.210	1251.059	1260.513	1257.362	1263.664	1266.815	1276.269	1273.118
22.5	1307.782	1301.479	1288.874	1285.723	1288.874	1288.874	1298.328	1298.328	1298.328	1295.177
25.0	1358.203	1348.749	1332.992	1326.690	1332.992	1332.992	1339.295	1332.992	1332.992	1323.538
27.5	1405.472	1396.018	1389.715	1386.564	1373.959	1380.262	1370.808	1367.656	1370.808	1361.354
30.0	1477.951	1468.497	1465.346	1443.287	1421.228	1421.228	1414.926	1408.623	1405.472	1389.715
32.5	1547.279	1540.977	1534.674	1515.767	1490.556	1471.649	1465.346	1455.892	1452.741	1430.682
35.0	1641.818	1626.062	1613.456	1591.397	1563.036	1534.674	1515.767	1503.162	1493.708	1471.649
37.5	1717.449	1707.995	1692.238	1676.482	1632.364	1600.851	1578.792	1556.733	1540.977	1522.069
40.0	1811.987	1808.836	1789.928	1755.264	1717.449	1689.087	1657.574	1622.910	1594.549	1585.095
42.5	1900.223	1897.072	1878.164	1862.408	1818.290	1777.323	1733.205	1711.146	1676.482	1667.028
45.0	1966.400	1963.249	1960.097	1938.038	1897.072	1868.710	1827.744	1799.382	1755.264	1755.264
47.5	2010.518	2010.518	2023.123	2007.367	1969.551	1941.190	1912.828	1884.467	1865.559	1846.651
50.0	2060.938	2054.636	2060.938	2064.090	2051.485	2013.669	2001.064	1988.459	1950.644	1941.190
52.5	2076.695	2076.695	2098.754	2117.662	2105.056	2086.149	2067.241	2060.938	2038.880	2016.821
55.0	2057.787	2082.997	2117.662	2130.267	2136.569	2133.418	2117.662	2108.208	2082.997	2060.938
57.5	2019.972	2051.485	2092.451	2117.662	2127.115	2139.721	2127.115	2117.662	2101.905	2060.938
60.0	1950.644	1979.005	2032.577	2073.544	2082.997	2105.056	2105.056	2086.149	2060.938	2023.123
62.5	1849.803	1893.921	1944.341	1982.156	2023.123	2026.274	2045.182	2026.274	1997.913	1963.249
65.0	1730.054	1777.323	1824.592	1859.256	1897.072	1915.979	1931.736	1915.979	1878.164	1843.500

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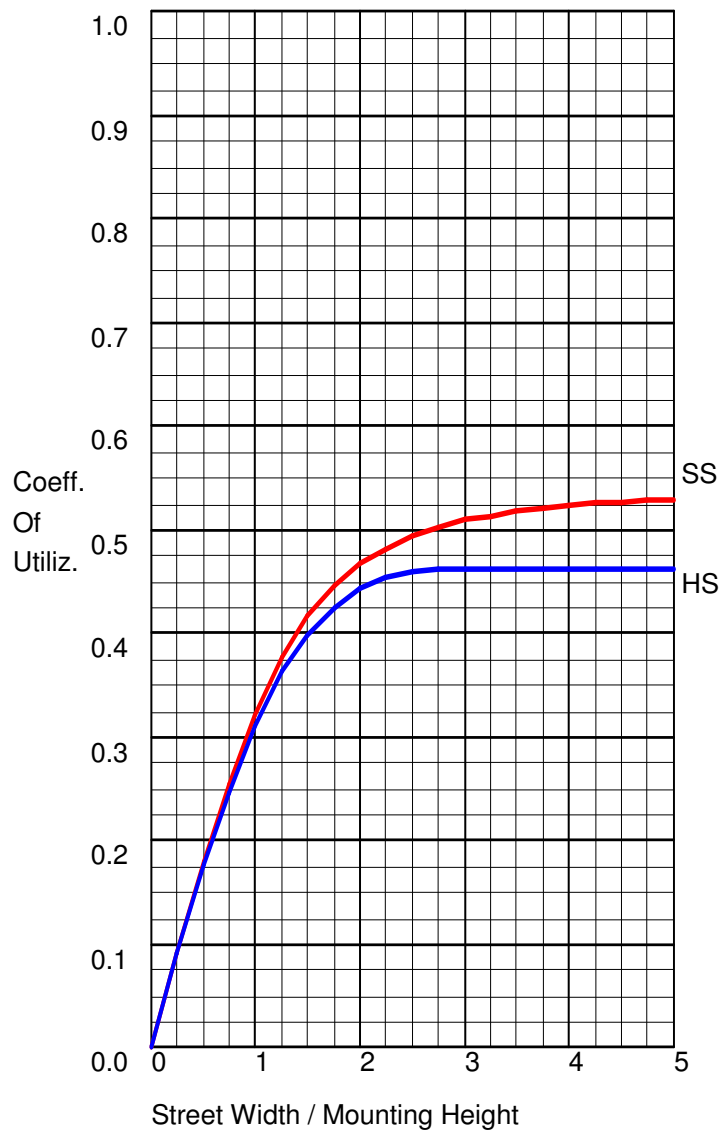
## CANDELA TABULATION - (Cont.)

67.5	1581.944	1622.910	1663.877	1695.390	1733.205	1739.508	1745.810	1730.054	1692.238	1638.667
70.0	1389.715	1418.077	1468.497	1493.708	1531.523	1509.464	1518.918	1503.162	1443.287	1314.085
72.5	1162.823	1194.336	1229.000	1244.756	1273.118	1238.454	1232.151	1229.000	1065.133	548.323
75.0	901.267	935.931	967.444	989.503	980.049	784.669	727.946	686.979	173.321	15.756
77.5	664.921	690.131	718.492	715.341	542.021	337.187	207.985	18.908	6.303	3.151
80.0	466.390	482.146	497.903	359.246	69.328	18.908	6.303	3.151	3.151	0.000
82.5	296.221	305.674	305.674	135.505	9.454	3.151	3.151	3.151	0.000	0.000
85.0	157.564	157.564	122.900	18.908	3.151	0.000	0.000	0.000	0.000	0.000
87.5	56.723	50.421	9.454	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	0.000	0.000	0.000

## Vert. Horizontal Angles

	<u>145.0</u>	<u>150.0</u>	<u>155.0</u>	<u>160.0</u>	<u>165.0</u>	<u>170.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790	1203.790
2.5	1191.185	1197.487	1200.638	1206.941	1203.790	1200.638	1197.487	1194.336
5.0	1216.395	1219.546	1222.697	1225.849	1222.697	1216.395	1206.941	1206.941
7.5	1197.487	1197.487	1203.790	1203.790	1197.487	1188.033	1181.731	1175.428
10.0	1188.033	1191.185	1200.638	1206.941	1206.941	1197.487	1188.033	1181.731
12.5	1210.092	1206.941	1203.790	1203.790	1206.941	1197.487	1184.882	1178.579
15.0	1213.244	1216.395	1216.395	1216.395	1213.244	1206.941	1197.487	1191.185
17.5	1241.605	1238.454	1232.151	1225.849	1216.395	1216.395	1213.244	1206.941
20.0	1266.815	1257.362	1241.605	1244.756	1235.303	1235.303	1225.849	1222.697
22.5	1292.026	1276.269	1269.967	1273.118	1266.815	1266.815	1257.362	1257.362
25.0	1323.538	1314.085	1301.479	1292.026	1298.328	1304.631	1292.026	1295.177
27.5	1355.051	1342.446	1342.446	1336.144	1336.144	1336.144	1320.387	1326.690
30.0	1392.867	1383.413	1370.808	1364.505	1383.413	1399.169	1383.413	1399.169
32.5	1418.077	1427.531	1414.926	1418.077	1418.077	1433.833	1440.136	1462.195
35.0	1462.195	1465.346	1459.044	1477.951	1487.405	1509.464	1522.069	1528.372
37.5	1512.615	1512.615	1528.372	1540.977	1544.128	1572.490	1591.397	1594.549
40.0	1578.792	1572.490	1604.003	1622.910	1635.515	1657.574	1682.785	1679.633
42.5	1654.423	1648.121	1676.482	1698.541	1720.600	1755.264	1777.323	1777.323
45.0	1745.810	1739.508	1761.567	1796.231	1802.533	1824.592	1852.954	1862.408
47.5	1843.500	1830.895	1852.954	1878.164	1887.618	1900.223	1928.585	1934.887
50.0	1938.038	1922.282	1931.736	1953.795	1963.249	1972.703	1982.156	1985.308
52.5	2007.367	1988.459	1979.005	1985.308	1988.459	1985.308	1982.156	1982.156
55.0	2023.123	1991.610	1969.551	1963.249	1956.946	1947.492	1931.736	1928.585
57.5	1997.913	1972.703	1934.887	1909.677	1890.769	1871.862	1852.954	1852.954
60.0	1960.097	1915.979	1878.164	1846.651	1805.685	1777.323	1739.508	1748.962
62.5	1897.072	1840.349	1786.777	1739.508	1679.633	1635.515	1588.246	1588.246
65.0	1774.172	1695.390	1610.305	1525.221	1396.018	1310.933	1194.336	1191.185
67.5	1544.128	1383.413	1143.915	863.451	532.567	378.154	189.077	189.077
70.0	998.956	557.777	132.354	28.362	15.756	12.605	12.605	12.605
72.5	78.782	18.908	9.454	9.454	6.303	6.303	6.303	6.303
75.0	9.454	6.303	3.151	3.151	3.151	3.151	3.151	3.151
77.5	3.151	3.151	3.151	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	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	0.000
85.0	0.000	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	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

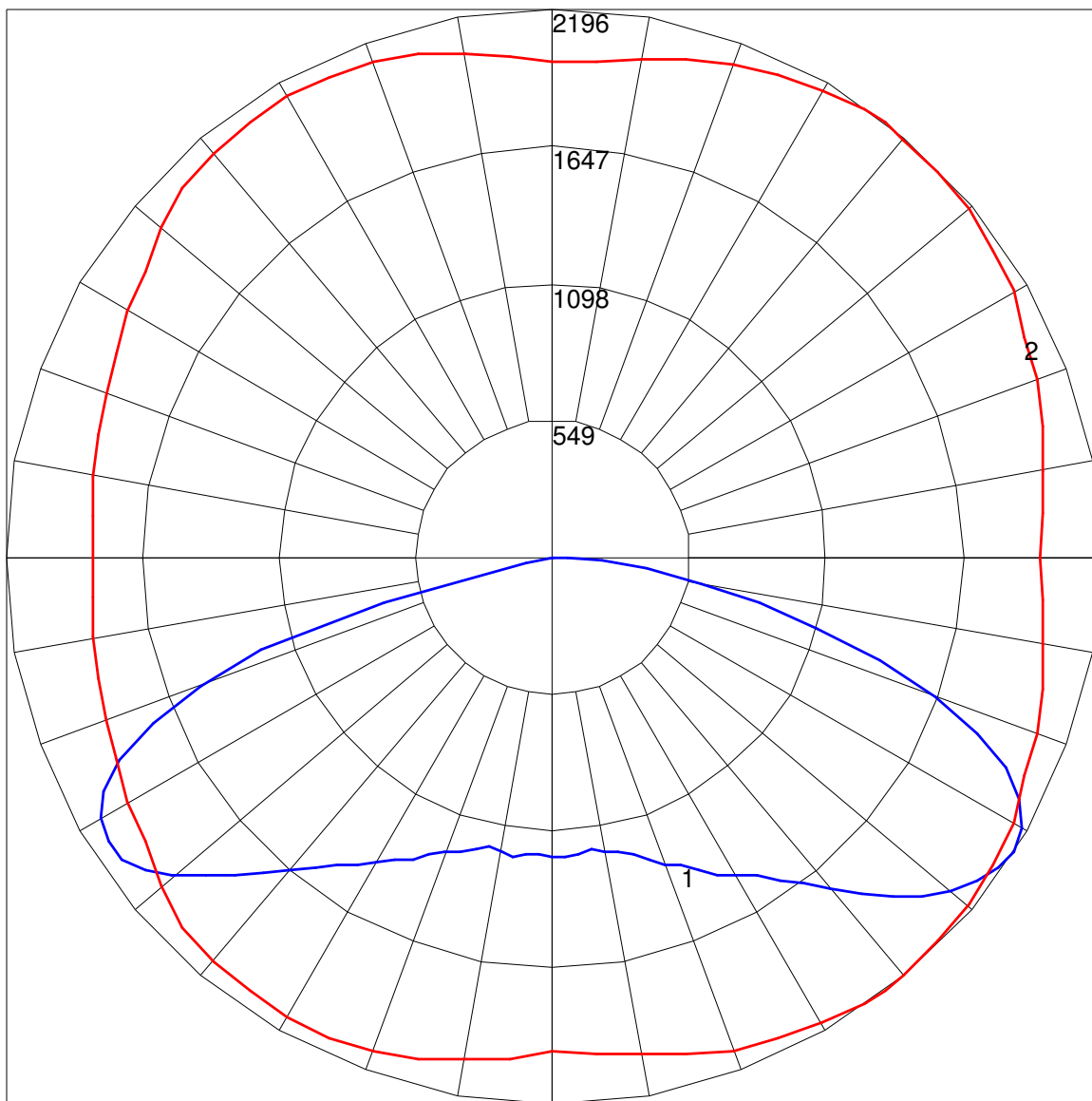
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

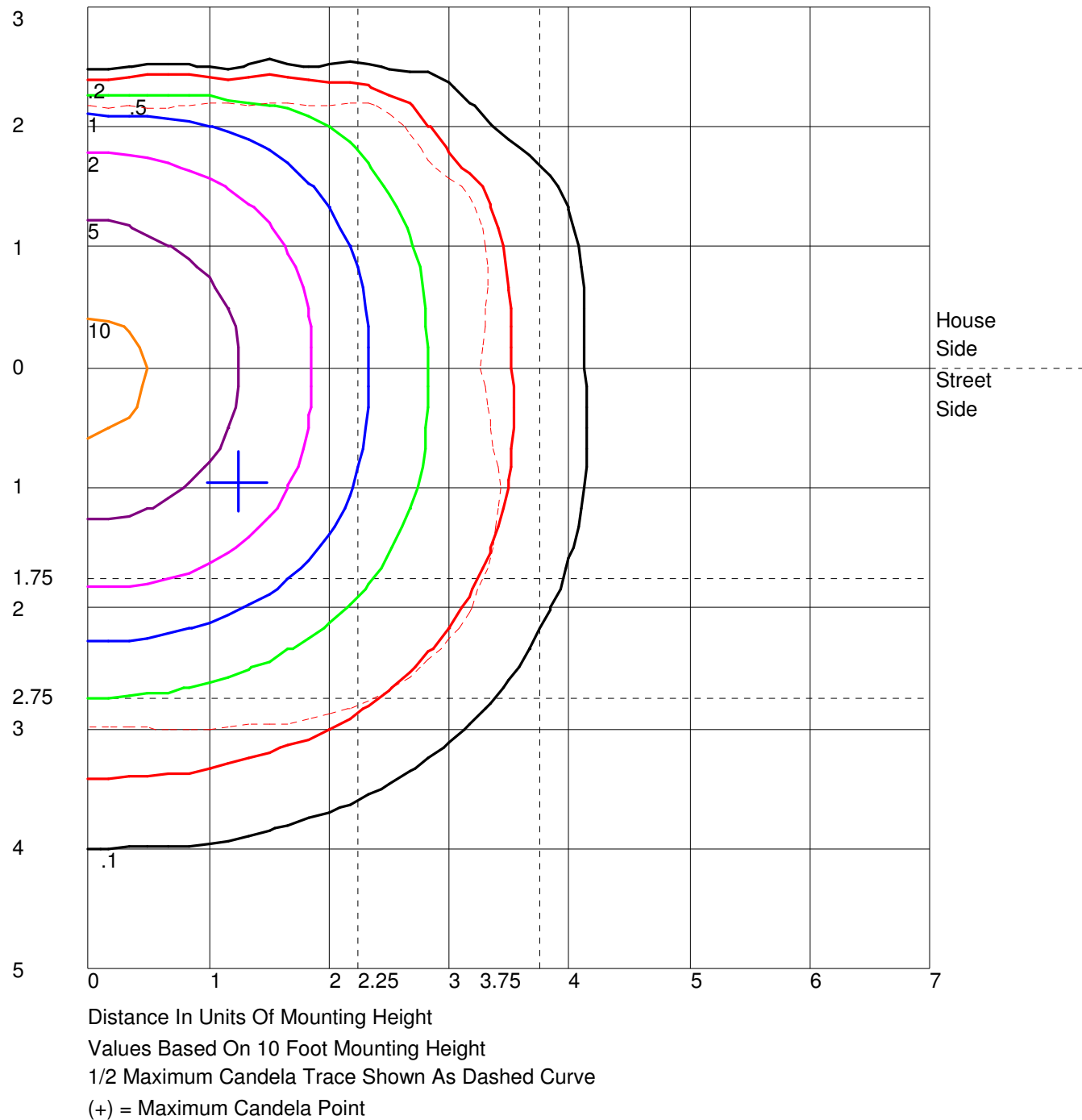
	Lumens	Percent Of Luminaire
Downward Street Side	4290.8	53.8
Downward House Side	3690.8	46.2
Downward Total	7981.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7981.6	100.0

POLAR GRAPH



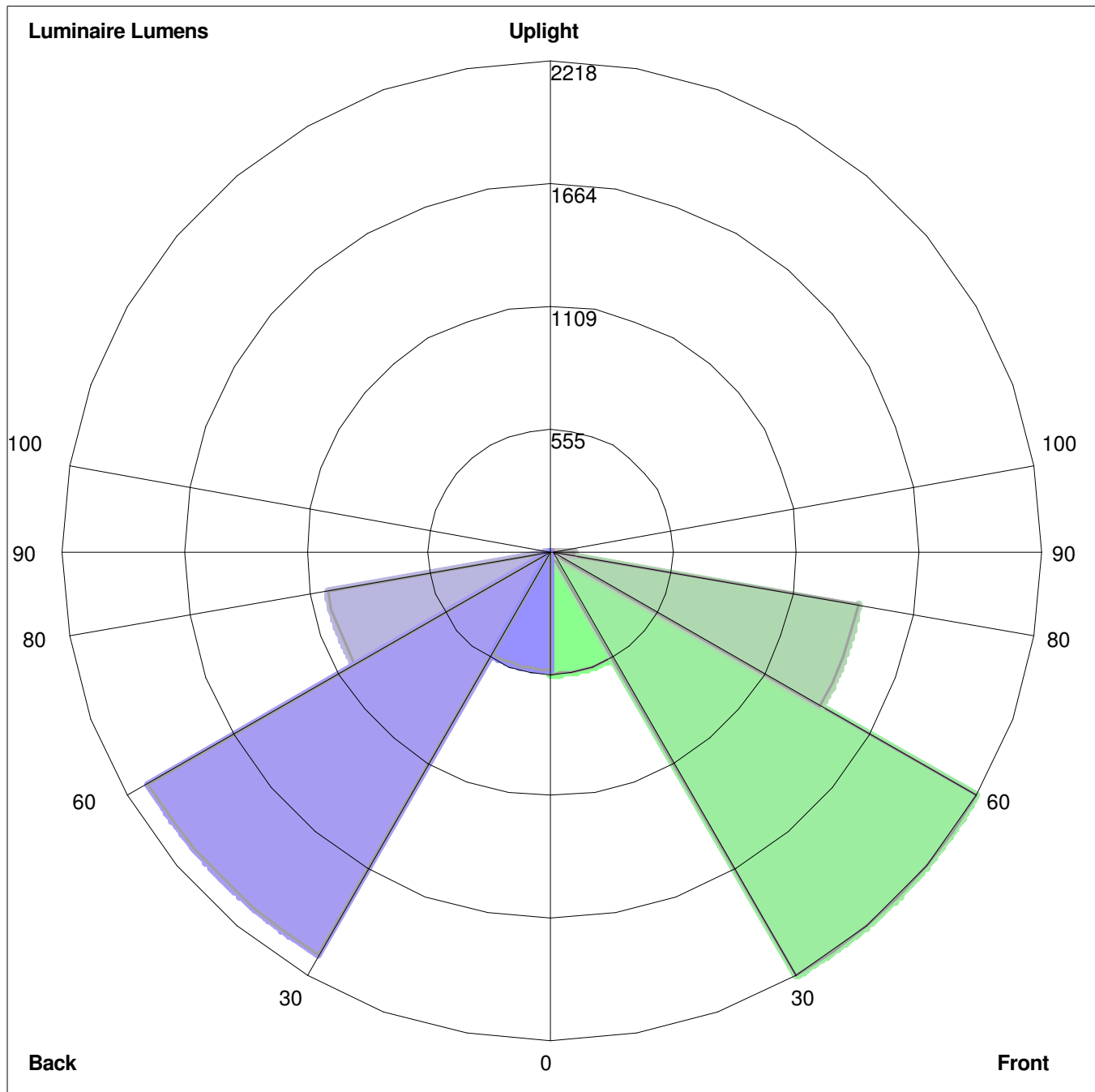
Maximum Candela = 2196.444 Located At Horizontal Angle = 52.5, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=555.5, Medium=2218.3, High=1409.1, Very High=107.8  
Back: Low=538.1, Medium=2102.3, High=1028.1, Very High=22.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3