



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-750-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-L60-750-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	6583
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2298.54
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	2298.54
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	409.164 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L60-750-TFT-XXX-CGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	387.5	N.A.	5.9
FM - Front-Medium (30-60)	1676.8	N.A.	25.5
FH - Front-High (60-80)	1510.6	N.A.	22.9
FVH - Front-Very High (80-90)	34.3	N.A.	0.5
BL - Back-Low (0-30)	375.6	N.A.	5.7
BM - Back-Medium (30-60)	1550.5	N.A.	23.6
BH - Back-High (60-80)	1042.3	N.A.	15.8
BVH - Back-Very High (80-90)	5.0	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	6582.6	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</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	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769
2.5	842.397	839.990	838.787	836.380	833.973	832.769	832.769	833.973	831.566	830.363
5.0	841.193	837.583	835.176	833.973	832.769	832.769	831.566	832.769	830.363	830.363
7.5	841.193	837.583	833.973	833.973	832.769	832.769	831.566	830.363	827.956	826.752
10.0	844.804	839.990	836.380	837.583	835.176	835.176	833.973	832.769	829.159	826.752
12.5	855.634	849.617	847.210	848.414	846.007	844.804	843.600	839.990	835.176	831.566
15.0	871.279	862.855	861.652	866.465	866.465	864.058	862.855	859.245	853.228	847.210
17.5	891.737	882.110	876.093	882.110	883.313	884.517	886.923	884.517	877.296	871.279
20.0	925.433	917.009	907.382	908.585	906.178	909.789	912.195	913.399	907.382	901.365
22.5	968.756	960.332	948.298	945.891	939.874	942.281	943.484	944.688	941.078	936.264
25.0	1015.690	1009.673	994.028	989.215	980.791	981.994	979.587	981.994	977.180	974.773
27.5	1063.827	1054.199	1038.555	1033.741	1022.910	1024.114	1016.893	1016.893	1015.690	1019.300
30.0	1121.591	1114.371	1093.912	1084.285	1072.251	1067.437	1055.403	1056.606	1054.199	1055.403
32.5	1186.576	1174.542	1158.897	1145.660	1130.015	1116.777	1101.133	1098.726	1091.506	1087.895
35.0	1256.375	1246.747	1229.899	1215.458	1193.797	1176.949	1156.490	1145.660	1134.829	1122.795
37.5	1321.360	1314.139	1297.291	1285.257	1261.188	1240.730	1216.662	1192.593	1178.152	1164.914
40.0	1383.938	1379.124	1361.073	1350.242	1327.377	1304.512	1278.036	1251.561	1232.306	1214.255
42.5	1448.922	1442.905	1426.057	1412.820	1391.158	1365.886	1340.614	1316.546	1294.884	1279.240
45.0	1507.890	1503.077	1491.042	1477.805	1456.143	1429.668	1405.599	1381.531	1365.886	1355.055
47.5	1563.248	1558.434	1552.417	1543.993	1523.535	1493.449	1471.788	1447.719	1438.092	1436.888
50.0	1594.537	1595.740	1598.147	1602.961	1593.333	1563.248	1547.603	1528.348	1519.924	1523.535
52.5	1601.757	1608.978	1628.233	1649.894	1657.115	1636.657	1631.843	1621.012	1612.588	1617.402
55.0	1614.995	1623.419	1657.115	1696.828	1722.100	1717.286	1720.896	1726.913	1720.896	1722.100
57.5	1677.573	1693.218	1723.303	1775.050	1811.153	1821.984	1832.815	1855.680	1858.087	1850.866
60.0	1750.982	1770.237	1805.136	1868.917	1917.054	1947.140	1968.802	2019.345	2044.617	2036.193
62.5	1760.609	1782.271	1825.594	1889.376	1930.292	1980.836	2034.990	2150.519	2214.300	2219.114
65.0	1699.235	1724.507	1773.847	1838.832	1892.986	1954.361	2028.973	2195.045	2284.099	2298.540
67.5	1663.132	1693.218	1771.440	1830.408	1854.476	1870.121	1935.106	2128.857	2238.369	2240.775
70.0	1606.571	1643.877	1743.761	1817.170	1852.070	1830.408	1846.052	1923.072	2008.515	2006.108
72.5	1357.462	1388.751	1559.637	1676.370	1732.931	1689.607	1743.761	1666.742	1558.434	1493.449
75.0	580.050	600.509	729.275	880.906	1015.690	1132.422	1286.460	1359.869	1185.373	1127.608
77.5	209.396	214.209	240.685	270.770	341.772	487.387	704.003	830.363	819.532	850.821
80.0	85.443	87.850	99.884	116.732	148.021	192.548	281.601	364.637	386.299	409.164
82.5	34.899	36.103	42.120	46.934	62.578	83.036	119.139	150.428	158.852	176.903
85.0	13.238	13.238	14.441	16.848	21.662	28.882	43.323	55.358	56.561	66.188
87.5	3.610	3.610	3.610	3.610	3.610	3.610	4.814	4.814	7.221	9.627
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	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769
2.5	829.159	827.956	830.363	831.566	829.159	826.752	826.752	826.752	826.752	826.752
5.0	826.752	825.549	827.956	827.956	825.549	821.939	819.532	819.532	818.328	819.532
7.5	825.549	821.939	824.345	823.142	820.735	815.921	812.311	812.311	811.108	811.108
10.0	825.549	819.532	821.939	823.142	823.142	818.328	813.515	812.311	811.108	809.904
12.5	830.363	826.752	829.159	829.159	830.363	825.549	820.735	818.328	815.921	814.718
15.0	847.210	844.804	846.007	844.804	843.600	839.990	832.769	826.752	824.345	823.142
17.5	868.872	867.669	866.465	864.058	859.245	852.024	847.210	842.397	841.193	839.990
20.0	897.754	896.551	895.347	888.127	882.110	873.686	870.076	868.872	868.872	867.669
22.5	932.654	925.433	923.026	917.009	910.992	906.178	904.975	903.771	903.771	902.568
25.0	972.367	960.332	957.925	953.112	948.298	949.502	949.502	948.298	948.298	943.484
27.5	1012.080	997.638	991.621	988.011	986.808	991.621	991.621	992.825	995.232	988.011

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## CANDELA TABULATION - (Cont.)

30.0	1055.403	1038.555	1026.521	1027.724	1028.928	1037.351	1037.351	1039.758	1045.775	1038.555
32.5	1092.709	1084.285	1066.234	1068.640	1072.251	1083.082	1089.099	1095.116	1102.336	1092.709
35.0	1127.608	1128.812	1113.167	1116.777	1125.201	1138.439	1146.863	1157.694	1167.321	1156.490
37.5	1164.914	1173.338	1169.728	1175.745	1187.779	1204.627	1215.458	1227.492	1229.899	1226.289
40.0	1213.051	1227.492	1232.306	1244.340	1255.171	1270.816	1287.664	1299.698	1299.698	1297.291
42.5	1272.019	1287.664	1294.884	1311.732	1324.970	1337.004	1352.649	1362.276	1358.666	1359.869
45.0	1343.021	1353.852	1363.479	1379.124	1392.362	1403.192	1411.616	1411.616	1406.803	1409.209
47.5	1424.854	1426.057	1428.464	1446.516	1458.550	1475.398	1479.008	1471.788	1464.567	1470.584
50.0	1516.314	1510.297	1504.280	1516.314	1528.348	1546.400	1542.790	1527.145	1517.518	1525.942
52.5	1614.995	1604.164	1590.926	1599.350	1604.164	1608.978	1586.113	1558.434	1550.010	1562.044
55.0	1722.100	1717.286	1693.218	1685.997	1676.370	1660.725	1607.774	1558.434	1543.993	1558.434
57.5	1859.290	1852.070	1811.153	1791.898	1759.406	1724.507	1646.284	1590.926	1578.892	1583.706
60.0	2042.210	2031.380	1963.988	1919.461	1870.121	1811.153	1718.489	1664.335	1653.505	1654.708
62.5	2208.283	2169.773	2051.838	1961.581	1899.003	1818.374	1722.100	1666.742	1653.505	1655.911
65.0	2276.878	2209.486	2057.855	1943.530	1880.952	1802.729	1722.100	1670.352	1660.725	1655.911
67.5	2240.775	2160.146	1986.853	1905.020	1890.579	1834.018	1756.999	1671.556	1652.301	1651.098
70.0	2053.041	1982.039	1899.003	1901.410	1938.716	1899.003	1789.491	1651.098	1617.402	1623.419
72.5	1554.824	1711.269	1835.222	1801.526	1840.035	1773.847	1607.774	1412.820	1370.700	1404.396
75.0	1210.645	1420.040	1394.768	1262.392	1067.437	943.484	741.309	600.509	604.119	599.305
77.5	837.583	849.617	749.733	560.796	357.417	315.297	264.753	228.651	233.464	228.651
80.0	398.333	379.079	299.653	225.040	164.869	148.021	121.546	105.901	104.698	99.884
82.5	166.073	163.666	134.783	103.494	79.426	64.985	54.154	46.934	48.137	48.137
85.0	63.781	66.188	55.358	43.323	32.492	27.679	22.865	21.662	20.458	20.458
87.5	12.034	15.645	12.034	10.831	9.627	8.424	7.221	6.017	6.017	6.017
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	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769	832.769
2.5	826.752	825.549	825.549	824.345	825.549	829.159	826.752	826.752	829.159	832.769
5.0	818.328	817.125	818.328	820.735	820.735	824.345	823.142	823.142	825.549	827.956
7.5	809.904	809.904	813.515	815.921	817.125	819.532	819.532	818.328	820.735	824.345
10.0	809.904	811.108	814.718	817.125	815.921	817.125	817.125	817.125	819.532	821.939
12.5	815.921	818.328	823.142	824.345	823.142	819.532	819.532	819.532	823.142	826.752
15.0	825.549	830.363	833.973	837.583	836.380	835.176	833.973	833.973	835.176	839.990
17.5	839.990	841.193	847.210	853.228	853.228	855.634	854.431	853.228	853.228	856.838
20.0	865.262	864.058	866.465	874.889	876.093	878.500	878.500	879.703	877.296	877.296
22.5	898.958	897.754	897.754	903.771	906.178	906.178	906.178	907.382	904.975	902.568
25.0	944.688	942.281	936.264	939.874	939.874	938.671	942.281	941.078	938.671	933.857
27.5	991.621	985.604	978.384	978.384	973.570	972.367	983.197	979.587	973.570	963.943
30.0	1038.555	1030.131	1020.504	1014.486	1009.673	1010.876	1018.097	1010.876	1002.452	991.621
32.5	1089.099	1075.861	1066.234	1056.606	1048.182	1051.793	1048.182	1038.555	1028.928	1021.707
35.0	1150.473	1134.829	1119.184	1107.150	1091.506	1085.488	1078.268	1061.420	1054.199	1048.182
37.5	1221.475	1204.627	1188.983	1164.914	1139.643	1127.608	1110.760	1095.116	1084.285	1079.471
40.0	1291.274	1274.426	1258.781	1231.103	1195.000	1170.932	1150.473	1136.032	1123.998	1121.591
42.5	1353.852	1335.801	1323.766	1291.274	1257.578	1223.882	1198.610	1184.169	1173.338	1173.338
45.0	1412.820	1401.989	1383.938	1350.242	1316.546	1281.647	1253.968	1241.934	1233.510	1228.696
47.5	1477.805	1472.991	1448.922	1412.820	1377.920	1339.411	1320.156	1303.308	1294.884	1285.257
50.0	1539.179	1541.586	1517.518	1481.415	1445.312	1405.599	1394.768	1375.514	1359.869	1347.835
52.5	1588.520	1600.554	1588.520	1548.807	1523.535	1489.839	1474.194	1447.719	1435.685	1421.244
55.0	1599.350	1636.657	1648.691	1628.233	1612.588	1583.706	1563.248	1533.162	1523.535	1512.704
57.5	1623.419	1666.742	1710.065	1714.879	1706.455	1692.014	1672.759	1635.453	1624.622	1618.605
60.0	1685.997	1726.913	1791.898	1823.187	1823.187	1837.628	1829.204	1789.491	1773.847	1761.813
62.5	1683.590	1730.524	1800.322	1862.900	1917.054	1982.039	1997.684	1965.191	1954.361	1924.275
65.0	1669.149	1704.048	1778.661	1855.680	1913.444	2038.600	2105.992	2104.789	2059.058	2003.701

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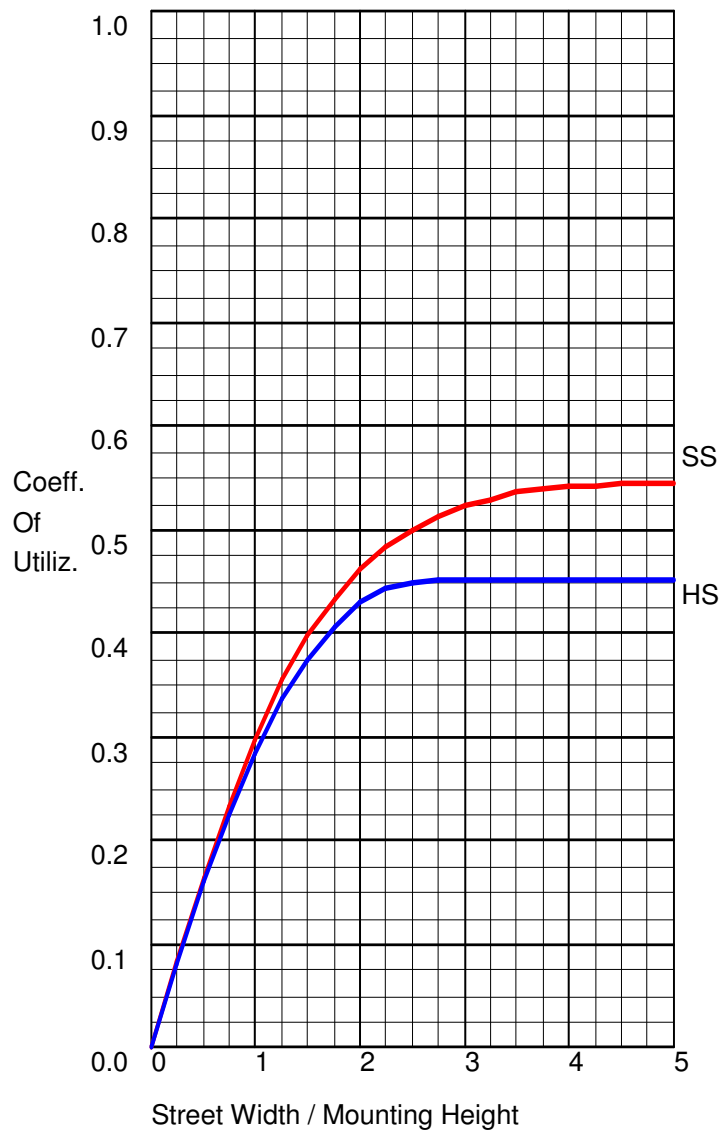
## CANDELA TABULATION - (Cont.)

67.5	1685.997	1737.744	1776.254	1801.526	1850.866	2030.176	2121.636	1988.056	1847.256	1776.254
70.0	1684.794	1776.254	1811.153	1796.712	1785.881	1885.765	1659.522	1522.331	1651.098	998.842
72.5	1545.196	1711.269	1801.526	1750.982	1782.271	1300.901	1149.270	807.497	150.428	27.679
75.0	747.326	941.078	1146.863	1198.610	1092.709	906.178	208.192	20.458	4.814	3.610
77.5	267.160	308.077	374.265	447.674	519.879	14.441	4.814	3.610	2.407	2.407
80.0	119.139	134.783	127.563	103.494	39.713	2.407	2.407	1.203	1.203	1.203
82.5	51.747	51.747	33.696	14.441	2.407	1.203	1.203	1.203	1.203	1.203
85.0	21.662	12.034	6.017	1.203	1.203	1.203	1.203	0.000	0.000	0.000
87.5	4.814	1.203	1.203	1.203	1.203	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	832.769	832.769	832.769	832.769	832.769	832.769	832.769
2.5	831.566	832.769	835.176	835.176	837.583	835.176	831.566
5.0	826.752	826.752	829.159	829.159	830.363	829.159	824.345
7.5	821.939	821.939	823.142	821.939	823.142	821.939	817.125
10.0	820.735	820.735	820.735	821.939	824.345	821.939	819.532
12.5	826.752	829.159	826.752	829.159	831.566	829.159	826.752
15.0	841.193	841.193	838.787	839.990	838.787	835.176	833.973
17.5	855.634	854.431	848.414	847.210	846.007	846.007	844.804
20.0	874.889	872.482	864.058	864.058	865.262	866.465	867.669
22.5	898.958	895.347	885.720	886.923	890.534	894.144	898.958
25.0	927.840	919.416	913.399	914.602	919.416	925.433	929.043
27.5	951.908	944.688	939.874	942.281	947.095	954.315	959.129
30.0	978.384	973.570	973.570	975.977	981.994	991.621	997.638
32.5	1010.876	1006.062	1006.062	1010.876	1019.300	1031.334	1038.555
35.0	1044.572	1037.351	1044.572	1051.793	1063.827	1077.064	1086.692
37.5	1078.268	1081.878	1093.912	1104.743	1116.777	1133.625	1146.863
40.0	1122.795	1133.625	1144.456	1158.897	1175.745	1195.000	1208.238
42.5	1175.745	1187.779	1201.017	1214.255	1231.103	1252.764	1267.205
45.0	1231.103	1241.934	1255.171	1268.409	1285.257	1308.122	1320.156
47.5	1286.460	1292.477	1309.325	1321.360	1338.207	1361.073	1369.496
50.0	1347.835	1351.445	1367.090	1379.124	1394.768	1415.227	1420.040
52.5	1420.040	1420.040	1429.668	1439.295	1444.109	1457.346	1458.550
55.0	1504.280	1497.059	1498.263	1499.466	1489.839	1487.432	1482.618
57.5	1604.164	1593.333	1583.706	1564.451	1527.145	1505.483	1495.856
60.0	1744.965	1720.896	1687.200	1636.657	1574.079	1554.824	1547.603
62.5	1864.104	1793.102	1728.117	1660.725	1599.350	1580.096	1569.265
65.0	1885.765	1794.305	1713.676	1621.012	1483.822	1302.105	1300.901
67.5	1759.406	1377.920	907.382	500.624	251.516	145.614	108.308
70.0	342.976	172.090	20.458	7.221	4.814	4.814	4.814
72.5	7.221	4.814	3.610	3.610	3.610	3.610	2.407
75.0	3.610	2.407	2.407	2.407	1.203	1.203	1.203
77.5	1.203	1.203	1.203	1.203	1.203	0.000	0.000
80.0	1.203	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

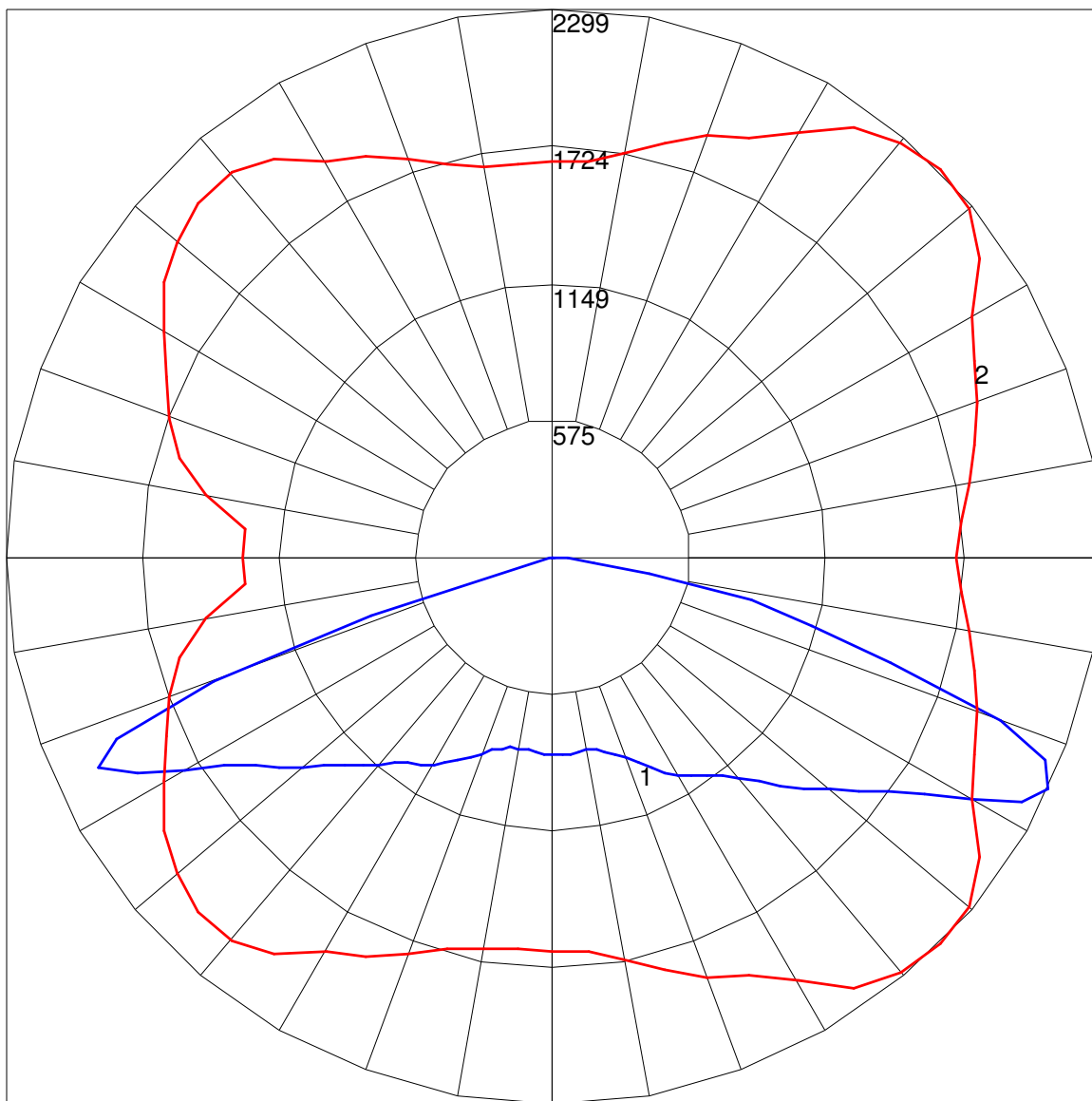
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

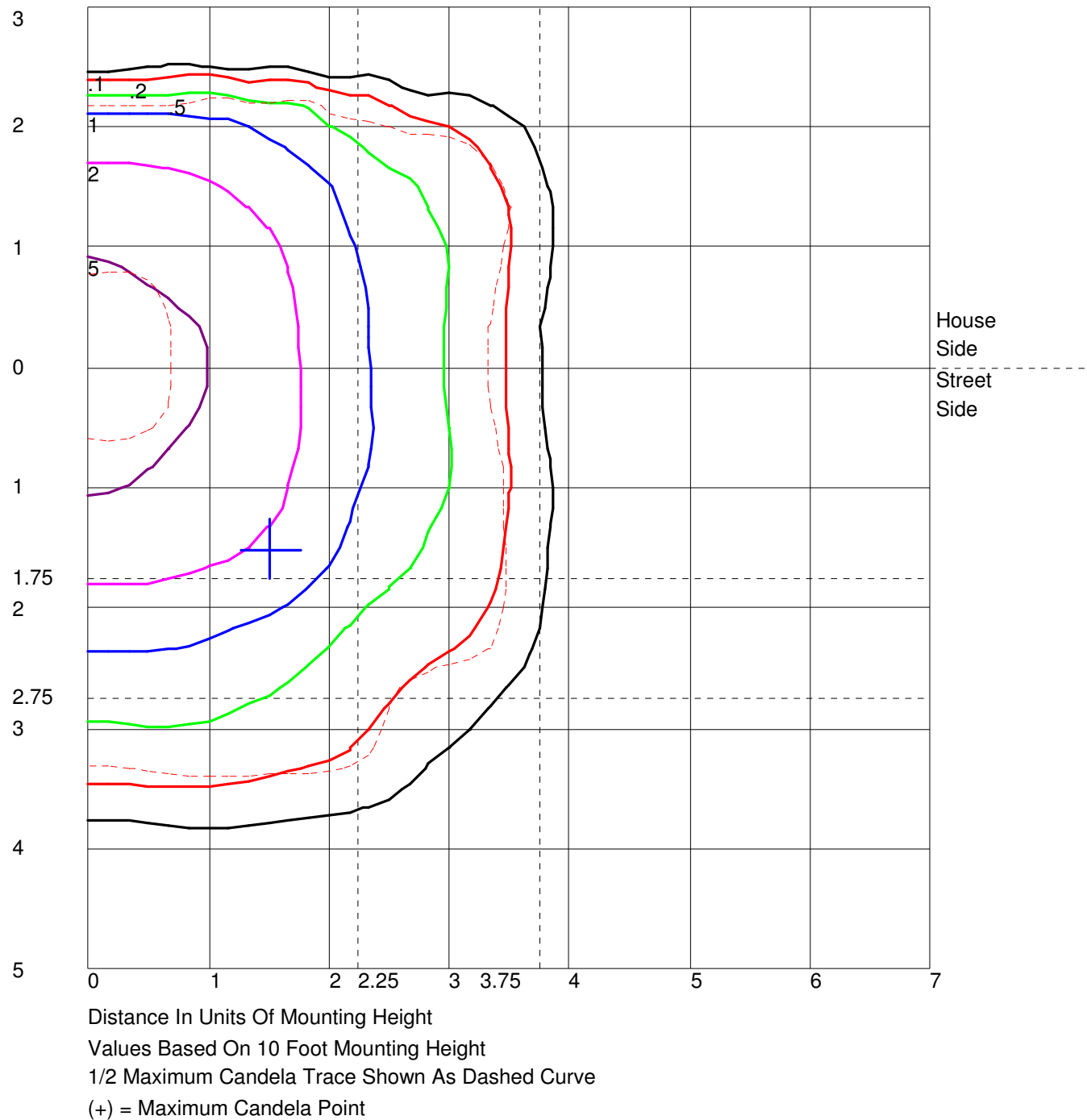
	Lumens	Percent Of Luminaire
Downward Street Side	3609.1	54.8
Downward House Side	2973.5	45.2
Downward Total	6582.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6582.6	100.0

POLAR GRAPH



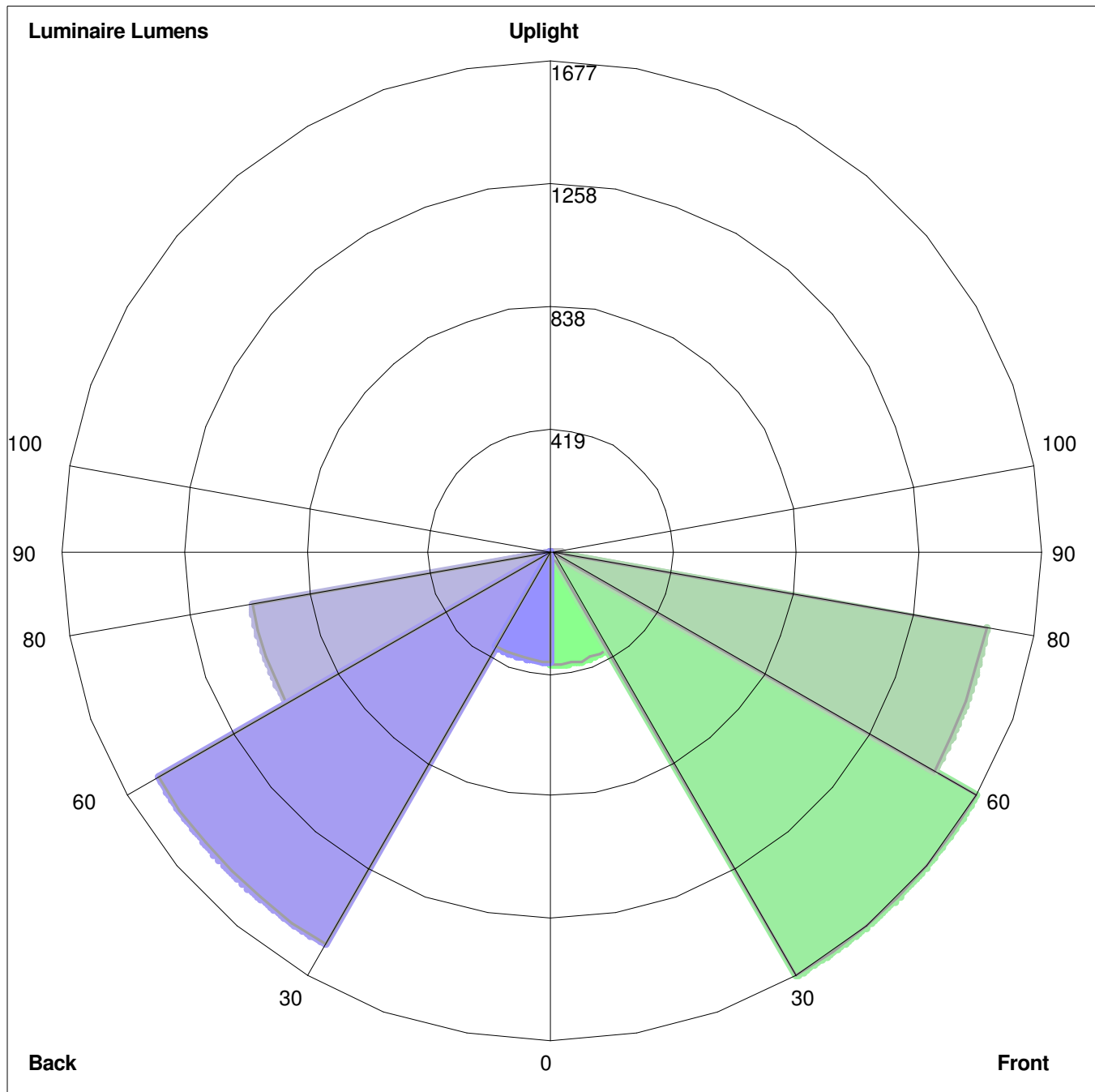
Maximum Candela = 2298.54 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=387.5, Medium=1676.8, High=1510.6, Very High=34.3  
Back: Low=375.6, Medium=1550.5, High=1042.3, Very High=5.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3