



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-850-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-L60-850-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	6007
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2097.698
Maximum Candela Angle	45H 65V
Maximum Candela (<90 Degrees Vertical)	2097.698
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	373.412 (6.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWPX-L60-850-TFT-XXX-CGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	353.6	N.A.	5.9
FM - Front-Medium (30-60)	1530.3	N.A.	25.5
FH - Front-High (60-80)	1378.6	N.A.	22.9
FVH - Front-Very High (80-90)	31.3	N.A.	0.5
BL - Back-Low (0-30)	342.8	N.A.	5.7
BM - Back-Medium (30-60)	1415.1	N.A.	23.6
BH - Back-High (60-80)	951.2	N.A.	15.8
BVH - Back-Very High (80-90)	4.6	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	6007.5	N.A.	100.0
BUG Rating	B2-U0-G2		

**IES ROAD REPORT**  
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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	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004
2.5	768.790	766.593	765.495	763.298	761.102	760.004	760.004	761.102	758.905	757.807
5.0	767.691	764.397	762.200	761.102	760.004	760.004	758.905	760.004	757.807	757.807
7.5	767.691	764.397	761.102	761.102	760.004	760.004	758.905	757.807	755.610	754.512
10.0	770.986	766.593	763.298	764.397	762.200	762.200	761.102	760.004	756.709	754.512
12.5	780.871	775.379	773.183	774.281	772.085	770.986	769.888	766.593	762.200	758.905
15.0	795.148	787.460	786.362	790.755	790.755	788.559	787.460	784.166	778.674	773.183
17.5	813.819	805.033	799.541	805.033	806.131	807.229	809.426	807.229	800.640	795.148
20.0	844.570	836.883	828.096	829.195	826.998	830.293	832.489	833.588	828.096	822.605
22.5	884.108	876.420	865.438	863.241	857.750	859.946	861.044	862.143	858.848	854.455
25.0	926.941	921.449	907.172	902.779	895.091	896.189	893.993	896.189	891.796	889.600
27.5	970.872	962.085	947.808	943.415	933.530	934.629	928.039	928.039	926.941	930.236
30.0	1023.589	1016.999	998.328	989.542	978.559	974.166	963.184	964.282	962.085	963.184
32.5	1082.895	1071.913	1057.635	1045.554	1031.276	1019.195	1004.918	1002.721	996.132	992.837
35.0	1146.595	1137.809	1122.433	1109.254	1089.485	1074.109	1055.438	1045.554	1035.670	1024.687
37.5	1205.902	1199.312	1183.936	1172.953	1150.988	1132.317	1110.352	1088.387	1075.207	1063.126
40.0	1263.012	1258.619	1242.145	1232.260	1211.393	1190.526	1166.364	1142.202	1124.630	1108.155
42.5	1322.318	1316.827	1301.451	1289.370	1269.601	1246.538	1223.474	1201.508	1181.740	1167.462
45.0	1376.134	1371.740	1360.758	1348.677	1328.908	1304.746	1282.781	1260.815	1246.538	1236.653
47.5	1426.654	1422.261	1416.770	1409.082	1390.411	1362.954	1343.185	1321.220	1312.434	1311.336
50.0	1455.209	1456.307	1458.504	1462.897	1454.111	1426.654	1412.377	1394.804	1387.116	1390.411
52.5	1461.799	1468.388	1485.961	1505.730	1512.319	1493.649	1489.255	1479.371	1471.683	1476.076
55.0	1473.880	1481.568	1512.319	1548.562	1571.626	1567.233	1570.528	1576.019	1570.528	1571.626
57.5	1530.990	1545.267	1572.724	1619.950	1652.898	1662.782	1672.667	1693.534	1695.730	1689.141
60.0	1597.984	1615.557	1647.407	1705.615	1749.546	1777.002	1796.771	1842.899	1865.962	1858.275
62.5	1606.770	1626.539	1666.077	1724.285	1761.627	1807.754	1857.176	1962.610	2020.819	2025.212
65.0	1550.759	1573.822	1618.851	1678.158	1727.580	1783.592	1851.685	2003.246	2084.518	2097.698
67.5	1517.811	1545.267	1616.655	1670.470	1692.436	1706.713	1766.020	1942.841	2042.784	2044.981
70.0	1466.192	1500.238	1591.395	1658.389	1690.239	1670.470	1684.748	1755.037	1833.014	1830.818
72.5	1238.850	1267.405	1423.359	1529.892	1581.510	1541.973	1591.395	1521.105	1422.261	1362.954
75.0	529.367	548.037	665.552	803.934	926.941	1033.473	1174.052	1241.046	1081.797	1029.080
77.5	191.099	195.492	219.654	247.111	311.909	444.800	642.489	757.807	747.923	776.478
80.0	77.977	80.174	91.156	106.532	135.087	175.723	256.995	332.776	352.545	373.412
82.5	31.850	32.948	38.439	42.833	57.110	75.781	108.729	137.284	144.972	161.446
85.0	12.081	12.081	13.179	15.376	19.769	26.359	39.538	50.520	51.619	60.405
87.5	3.295	3.295	3.295	3.295	3.295	3.295	4.393	4.393	6.590	8.786
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	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004
2.5	756.709	755.610	757.807	758.905	756.709	754.512	754.512	754.512	754.512	754.512
5.0	754.512	753.414	755.610	755.610	753.414	750.119	747.923	747.923	746.824	747.923
7.5	753.414	750.119	752.316	751.217	749.021	744.628	741.333	741.333	740.235	740.235
10.0	753.414	747.923	750.119	751.217	751.217	746.824	742.431	741.333	740.235	739.136
12.5	757.807	754.512	756.709	756.709	757.807	753.414	749.021	746.824	744.628	743.529
15.0	773.183	770.986	772.085	770.986	769.888	766.593	760.004	754.512	752.316	751.217
17.5	792.952	791.853	790.755	788.559	784.166	777.576	773.183	768.790	767.691	766.593
20.0	819.310	818.212	817.114	810.524	805.033	797.345	794.050	792.952	792.952	791.853
22.5	851.160	844.570	842.374	836.883	831.391	826.998	825.900	824.802	824.802	823.703
25.0	887.403	876.420	874.224	869.831	865.438	866.536	866.536	865.438	865.438	861.044
27.5	923.646	910.467	904.975	901.681	900.582	904.975	904.975	906.074	908.270	901.681

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## CANDELA TABULATION - (Cont.)

30.0	963.184	947.808	936.825	937.923	939.022	946.710	946.710	948.906	954.398	947.808
32.5	997.230	989.542	973.068	975.265	978.559	988.444	993.935	999.427	1006.016	997.230
35.0	1029.080	1030.178	1015.901	1019.195	1026.883	1038.964	1046.652	1056.537	1065.323	1055.438
37.5	1063.126	1070.814	1067.519	1073.011	1083.993	1099.369	1109.254	1120.236	1122.433	1119.138
40.0	1107.057	1120.236	1124.630	1135.612	1145.497	1159.774	1175.150	1186.133	1186.133	1183.936
42.5	1160.872	1175.150	1181.740	1197.115	1209.196	1220.179	1234.457	1243.243	1239.948	1241.046
45.0	1225.670	1235.555	1244.341	1258.619	1270.700	1280.584	1288.272	1288.272	1283.879	1286.075
47.5	1300.353	1301.451	1303.648	1320.122	1331.104	1346.480	1349.775	1343.185	1336.596	1342.087
50.0	1383.821	1378.330	1372.839	1383.821	1394.804	1411.278	1407.983	1393.706	1384.920	1392.608
52.5	1473.880	1463.995	1451.914	1459.602	1463.995	1468.388	1447.521	1422.261	1414.573	1425.556
55.0	1571.626	1567.233	1545.267	1538.678	1529.892	1515.614	1467.290	1422.261	1409.082	1422.261
57.5	1696.829	1690.239	1652.898	1635.326	1605.672	1573.822	1502.435	1451.914	1440.932	1445.325
60.0	1863.766	1853.881	1792.378	1751.742	1706.713	1652.898	1568.331	1518.909	1509.024	1510.123
62.5	2015.327	1980.183	1872.552	1790.182	1733.072	1659.487	1571.626	1521.105	1509.024	1511.221
65.0	2077.929	2016.426	1878.043	1773.708	1716.598	1645.210	1571.626	1524.400	1515.614	1511.221
67.5	2044.981	1971.396	1813.245	1738.563	1725.384	1673.765	1603.476	1525.498	1507.926	1506.828
70.0	1873.650	1808.852	1733.072	1735.268	1769.315	1733.072	1633.129	1506.828	1476.076	1481.568
72.5	1418.966	1561.741	1674.863	1644.112	1679.256	1618.851	1467.290	1289.370	1250.931	1281.682
75.0	1104.861	1295.960	1272.896	1152.086	974.166	861.044	676.535	548.037	551.332	546.939
77.5	764.397	775.379	684.223	511.794	326.186	287.747	241.620	208.671	213.065	208.671
80.0	363.528	345.955	273.469	205.377	150.463	135.087	110.925	96.648	95.550	91.156
82.5	151.561	149.365	123.006	94.451	72.486	59.307	49.422	42.833	43.931	43.931
85.0	58.208	60.405	50.520	39.538	29.653	25.260	20.867	19.769	18.671	18.671
87.5	10.983	14.278	10.983	9.884	8.786	7.688	6.590	5.491	5.491	5.491
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	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004	760.004
2.5	754.512	753.414	753.414	752.316	753.414	756.709	754.512	754.512	756.709	760.004
5.0	746.824	745.726	746.824	749.021	749.021	752.316	751.217	751.217	753.414	755.610
7.5	739.136	739.136	742.431	744.628	745.726	747.923	747.923	746.824	749.021	752.316
10.0	739.136	740.235	743.529	745.726	744.628	745.726	745.726	745.726	747.923	750.119
12.5	744.628	746.824	751.217	752.316	751.217	747.923	747.923	747.923	751.217	754.512
15.0	753.414	757.807	761.102	764.397	763.298	762.200	761.102	761.102	762.200	766.593
17.5	766.593	767.691	773.183	778.674	778.674	780.871	779.772	778.674	778.674	781.969
20.0	789.657	788.559	790.755	798.443	799.541	801.738	801.738	802.836	800.640	800.640
22.5	820.408	819.310	819.310	824.802	826.998	826.998	826.998	828.096	825.900	823.703
25.0	862.143	859.946	854.455	857.750	857.750	856.651	859.946	858.848	856.651	852.258
27.5	904.975	899.484	892.894	892.894	888.501	887.403	897.287	893.993	888.501	879.715
30.0	947.808	940.120	931.334	925.842	921.449	922.548	929.137	922.548	914.860	904.975
32.5	993.935	981.854	973.068	964.282	956.594	959.889	956.594	947.808	939.022	932.432
35.0	1049.947	1035.670	1021.392	1010.409	996.132	990.640	984.051	968.675	962.085	956.594
37.5	1114.745	1099.369	1085.092	1063.126	1040.063	1029.080	1013.704	999.427	989.542	985.149
40.0	1178.445	1163.069	1148.791	1123.531	1090.583	1068.618	1049.947	1036.768	1025.785	1023.589
42.5	1235.555	1219.081	1208.098	1178.445	1147.693	1116.942	1093.878	1080.699	1070.814	1070.814
45.0	1289.370	1279.486	1263.012	1232.260	1201.508	1169.659	1144.398	1133.416	1125.728	1121.335
47.5	1348.677	1344.284	1322.318	1289.370	1257.520	1222.376	1204.803	1189.428	1181.740	1172.953
50.0	1404.689	1406.885	1384.920	1351.972	1319.023	1282.781	1272.896	1255.324	1241.046	1230.064
52.5	1449.718	1460.700	1449.718	1413.475	1390.411	1359.660	1345.382	1321.220	1310.237	1297.058
55.0	1459.602	1493.649	1504.631	1485.961	1471.683	1445.325	1426.654	1399.197	1390.411	1380.527
57.5	1481.568	1521.105	1560.643	1565.036	1557.348	1544.169	1526.597	1492.550	1482.666	1477.175
60.0	1538.678	1576.019	1635.326	1663.881	1663.881	1677.060	1669.372	1633.129	1618.851	1607.869
62.5	1536.481	1579.314	1643.013	1700.124	1749.546	1808.852	1823.130	1793.477	1783.592	1756.135
65.0	1523.302	1555.152	1623.245	1693.534	1746.251	1860.471	1921.974	1920.876	1879.142	1828.621

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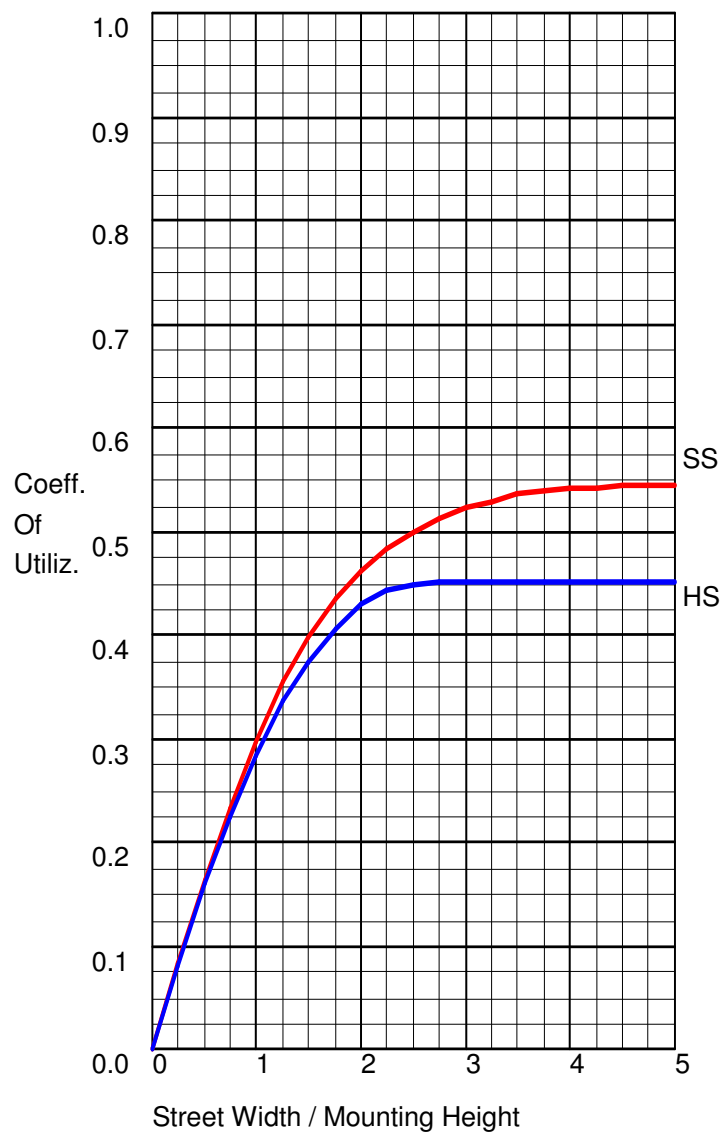
## CANDELA TABULATION - (Cont.)

67.5	1538.678	1585.903	1621.048	1644.112	1689.141	1852.783	1936.252	1814.344	1685.846	1621.048
70.0	1537.579	1621.048	1652.898	1639.719	1629.834	1720.991	1514.516	1389.313	1506.828	911.565
72.5	1410.180	1561.741	1644.112	1597.984	1626.539	1187.231	1048.849	736.940	137.284	25.260
75.0	682.026	858.848	1046.652	1093.878	997.230	826.998	190.001	18.671	4.393	3.295
77.5	243.816	281.157	341.562	408.557	474.453	13.179	4.393	3.295	2.197	2.197
80.0	108.729	123.006	116.417	94.451	36.243	2.197	2.197	1.098	1.098	1.098
82.5	47.226	47.226	30.752	13.179	2.197	1.098	1.098	1.098	1.098	1.098
85.0	19.769	10.983	5.491	1.098	1.098	1.098	1.098	0.000	0.000	0.000
87.5	4.393	1.098	1.098	1.098	1.098	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	760.004	760.004	760.004	760.004	760.004	760.004	760.004
2.5	758.905	760.004	762.200	762.200	764.397	762.200	758.905
5.0	754.512	754.512	756.709	756.709	757.807	756.709	752.316
7.5	750.119	750.119	751.217	750.119	751.217	750.119	745.726
10.0	749.021	749.021	749.021	750.119	752.316	750.119	747.923
12.5	754.512	756.709	754.512	756.709	758.905	756.709	754.512
15.0	767.691	767.691	765.495	766.593	765.495	762.200	761.102
17.5	780.871	779.772	774.281	773.183	772.085	772.085	770.986
20.0	798.443	796.246	788.559	788.559	789.657	790.755	791.853
22.5	820.408	817.114	808.327	809.426	812.721	816.015	820.408
25.0	846.767	839.079	833.588	834.686	839.079	844.570	847.865
27.5	868.732	862.143	857.750	859.946	864.339	870.929	875.322
30.0	892.894	888.501	888.501	890.698	896.189	904.975	910.467
32.5	922.548	918.155	918.155	922.548	930.236	941.218	947.808
35.0	953.299	946.710	953.299	959.889	970.872	982.953	991.739
37.5	984.051	987.346	998.328	1008.213	1019.195	1034.571	1046.652
40.0	1024.687	1034.571	1044.456	1057.635	1073.011	1090.583	1102.664
42.5	1073.011	1083.993	1096.074	1108.155	1123.531	1143.300	1156.479
45.0	1123.531	1133.416	1145.497	1157.578	1172.953	1193.821	1204.803
47.5	1174.052	1179.543	1194.919	1205.902	1221.277	1242.145	1249.832
50.0	1230.064	1233.358	1247.636	1258.619	1272.896	1291.567	1295.960
52.5	1295.960	1295.960	1304.746	1313.532	1317.925	1330.006	1331.104
55.0	1372.839	1366.249	1367.347	1368.446	1359.660	1357.463	1353.070
57.5	1463.995	1454.111	1445.325	1427.752	1393.706	1373.937	1365.151
60.0	1592.493	1570.528	1539.776	1493.649	1436.538	1418.966	1412.377
62.5	1701.222	1636.424	1577.117	1515.614	1459.602	1442.030	1432.145
65.0	1720.991	1637.522	1563.938	1479.371	1354.168	1188.329	1187.231
67.5	1605.672	1257.520	828.096	456.881	229.539	132.891	98.844
70.0	313.007	157.053	18.671	6.590	4.393	4.393	4.393
72.5	6.590	4.393	3.295	3.295	3.295	3.295	2.197
75.0	3.295	2.197	2.197	2.197	1.098	1.098	1.098
77.5	1.098	1.098	1.098	1.098	1.098	0.000	0.000
80.0	1.098	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

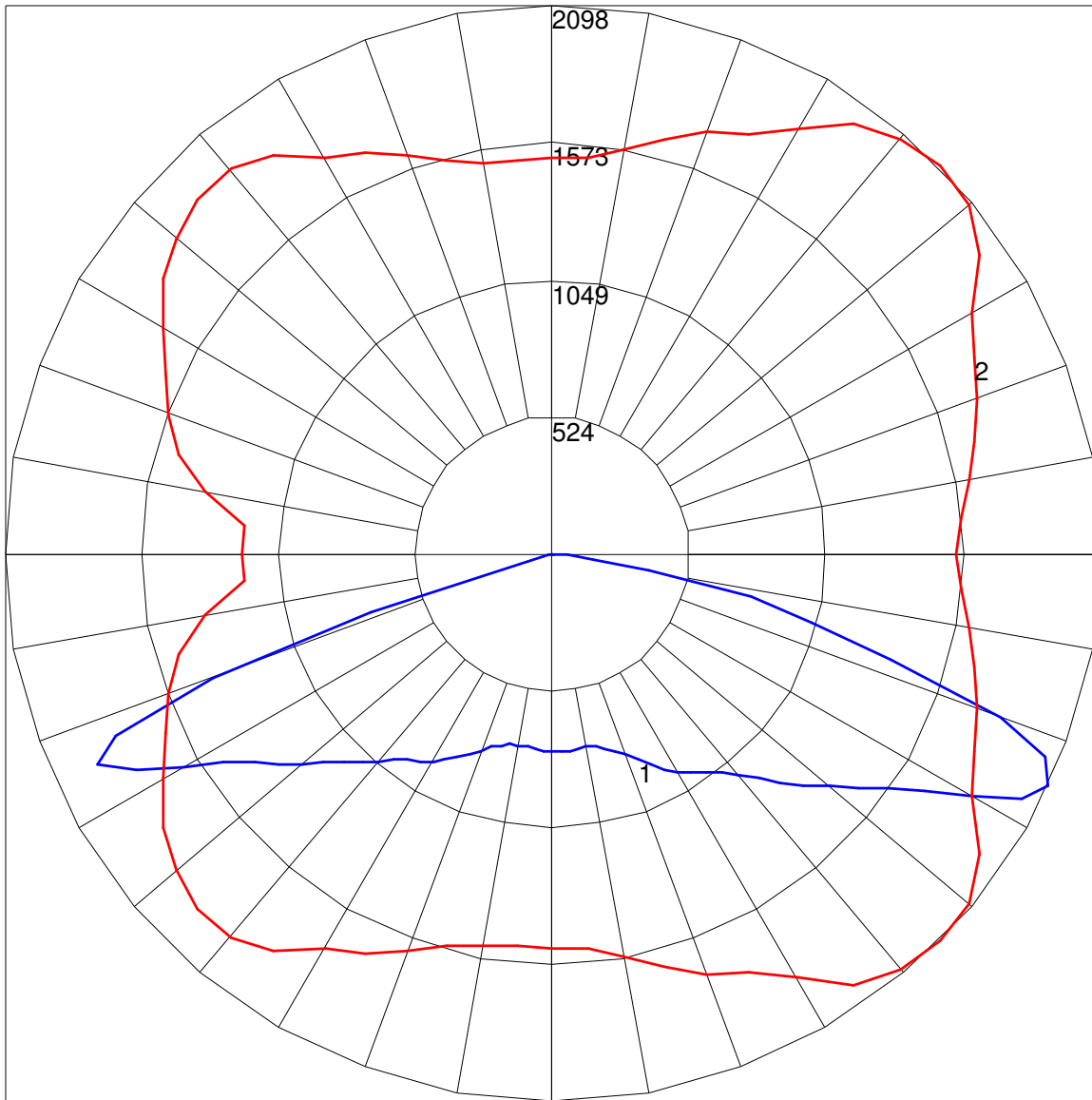
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

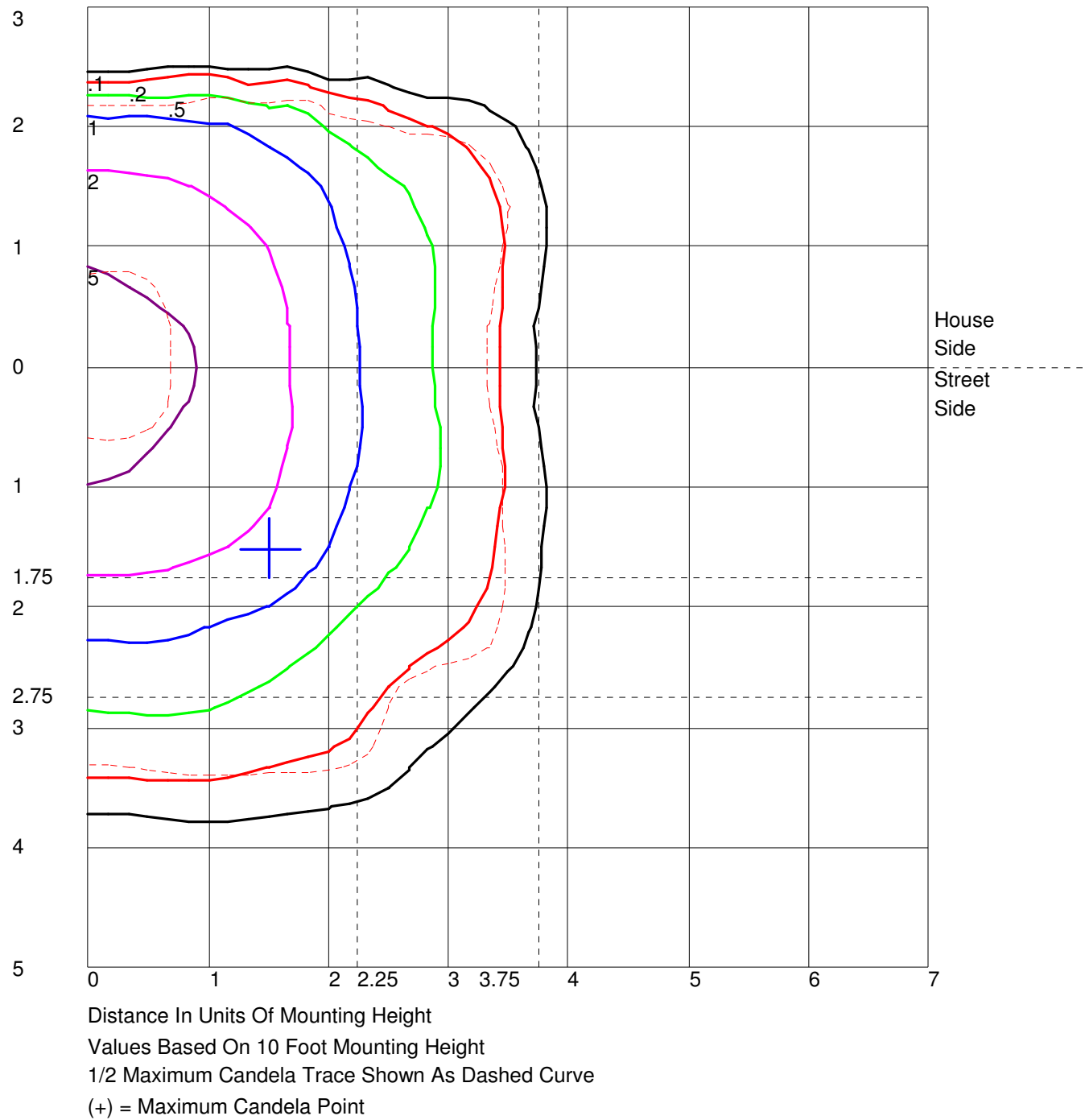
	Lumens	Percent Of Luminaire
Downward Street Side	3293.8	54.8
Downward House Side	2713.6	45.2
Downward Total	6007.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6007.4	100.0

POLAR GRAPH



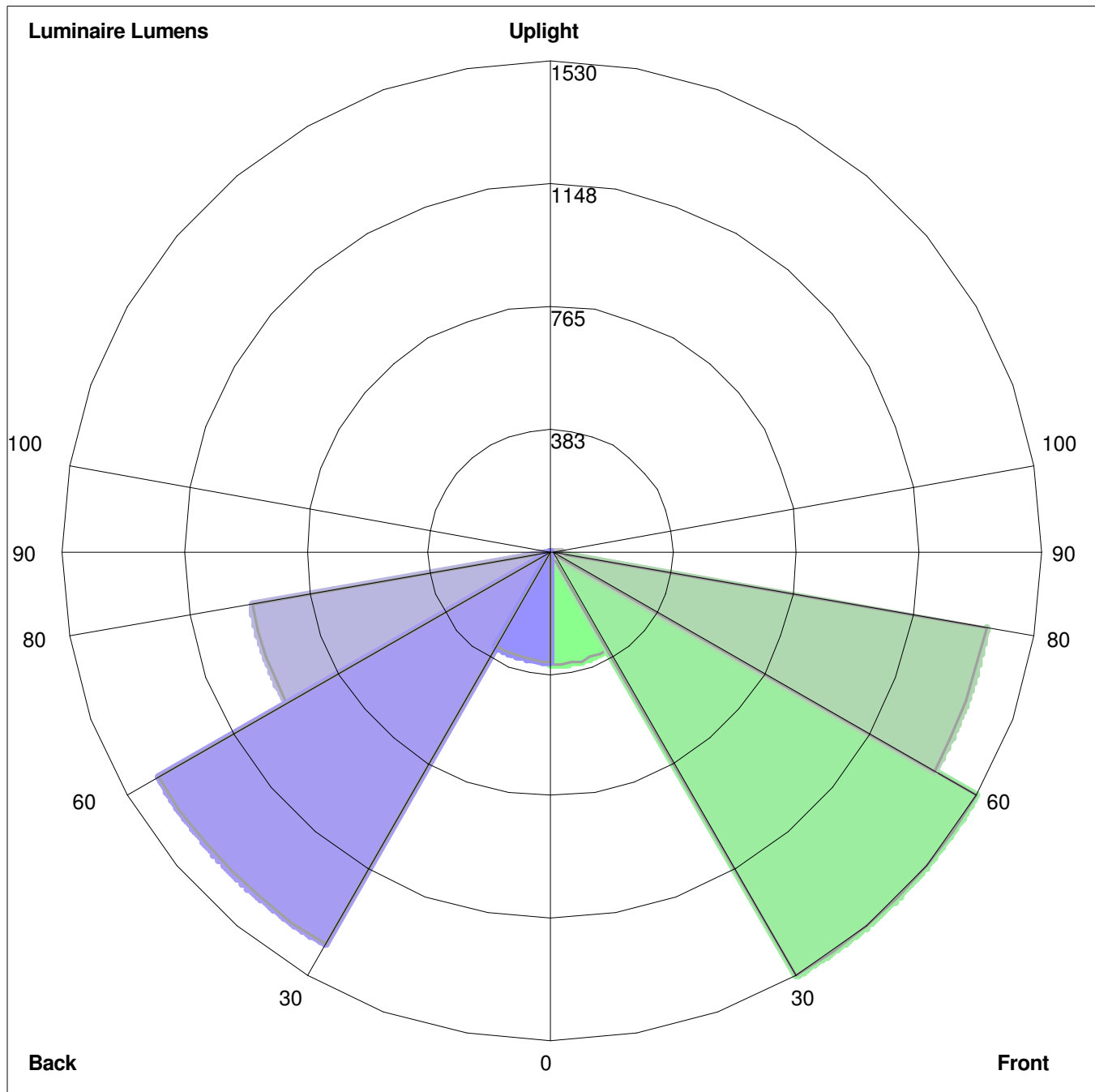
Maximum Candela = 2097.698 Located At Horizontal Angle = 45, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=353.6, Medium=1530.3, High=1378.6, Very High=31.3  
Back: Low=342.8, Medium=1415.1, High=951.2, Very High=4.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2