



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWPX-L60-850-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-L60-850-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	5887
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	49
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1620.02
Maximum Candela Angle	52.5H 57.5V
Maximum Candela (<90 Degrees Vertical)	1620.02
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	448.585 (7.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	409.7	N.A.	7.0
FM - Front-Medium (30-60)	1636.1	N.A.	27.8
FH - Front-High (60-80)	1039.3	N.A.	17.7
FVH - Front-Very High (80-90)	79.5	N.A.	1.4
BL - Back-Low (0-30)	396.9	N.A.	6.7
BM - Back-Medium (30-60)	1550.6	N.A.	26.3
BH - Back-High (60-80)	758.3	N.A.	12.9
BVH - Back-Very High (80-90)	16.5	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	5886.9	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>10.0</b></u>	<u><b>15.0</b></u>	<u><b>20.0</b></u>	<u><b>25.0</b></u>	<u><b>30.0</b></u>	<u><b>35.0</b></u>	<u><b>40.0</b></u>	<u><b>45.0</b></u>
<b>0.0</b>	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873
<b>2.5</b>	906.467	904.143	899.494	894.846	894.846	894.846	897.170	892.522	892.522	890.197
<b>5.0</b>	892.522	890.197	885.549	880.900	878.576	878.576	878.576	876.252	873.927	876.252
<b>7.5</b>	915.764	911.116	906.467	899.494	892.522	890.197	890.197	885.549	878.576	876.252
<b>10.0</b>	901.819	897.170	890.197	880.900	878.576	883.225	887.873	890.197	890.197	892.522
<b>12.5</b>	915.764	908.792	897.170	892.522	890.197	897.170	897.170	894.846	887.873	890.197
<b>15.0</b>	918.089	913.440	904.143	906.467	911.116	918.089	918.089	918.089	908.792	906.467
<b>17.5</b>	943.656	939.007	927.386	929.710	929.710	934.359	936.683	939.007	934.359	939.007
<b>20.0</b>	966.898	957.601	948.304	950.628	955.277	957.601	969.223	969.223	969.223	971.547
<b>22.5</b>	1001.763	994.790	987.817	987.817	978.520	985.493	987.817	999.438	1004.087	1001.763
<b>25.0</b>	1036.627	1029.654	1027.330	1025.005	1015.708	1020.357	1018.032	1025.005	1029.654	1034.302
<b>27.5</b>	1092.409	1087.761	1078.464	1069.167	1057.545	1052.897	1048.248	1064.518	1069.167	1059.869
<b>30.0</b>	1138.895	1134.246	1129.598	1120.301	1113.328	1097.058	1092.409	1099.382	1094.734	1097.058
<b>32.5</b>	1194.677	1197.002	1194.677	1180.732	1159.813	1148.192	1136.570	1138.895	1131.922	1127.273
<b>35.0</b>	1264.406	1264.406	1259.757	1245.811	1217.920	1206.299	1194.677	1183.056	1183.056	1173.759
<b>37.5</b>	1336.458	1327.161	1317.864	1308.567	1283.000	1266.730	1245.811	1245.811	1227.217	1224.893
<b>40.0</b>	1401.538	1396.889	1382.944	1380.619	1345.755	1334.134	1317.864	1306.243	1287.648	1285.324
<b>42.5</b>	1445.699	1448.023	1436.402	1445.699	1420.132	1413.159	1392.241	1373.647	1359.701	1343.431
<b>45.0</b>	1494.509	1501.482	1489.860	1501.482	1487.536	1489.860	1468.942	1448.023	1424.781	1422.456
<b>47.5</b>	1540.994	1547.967	1545.643	1550.291	1540.994	1543.319	1520.076	1513.103	1489.860	1492.185
<b>50.0</b>	1552.616	1564.237	1568.886	1566.561	1571.210	1571.210	1568.886	1554.940	1554.940	1538.670
<b>52.5</b>	1531.697	1545.643	1550.291	1554.940	1582.831	1582.831	1587.480	1578.183	1580.507	1580.507
<b>55.0</b>	1501.482	1513.103	1517.752	1534.022	1573.534	1573.534	1585.156	1594.453	1601.425	1608.398
<b>57.5</b>	1443.375	1454.996	1473.590	1506.130	1531.697	1540.994	1575.858	1587.480	1606.074	1608.398
<b>60.0</b>	1380.619	1389.916	1408.511	1443.375	1466.618	1501.482	1536.346	1564.237	1582.831	1592.128
<b>62.5</b>	1285.324	1306.243	1322.512	1355.052	1396.889	1431.753	1464.293	1496.833	1536.346	1545.643
<b>65.0</b>	1183.056	1199.326	1217.920	1255.109	1292.297	1329.485	1364.349	1399.214	1448.023	1466.618
<b>67.5</b>	1064.518	1069.167	1092.409	1124.949	1152.840	1187.705	1224.893	1266.730	1320.188	1341.107
<b>70.0</b>	913.440	913.440	934.359	964.574	985.493	1020.357	1059.869	1101.706	1148.192	1180.732
<b>72.5</b>	743.768	743.768	762.362	792.578	813.496	843.712	892.522	915.764	962.250	992.465
<b>75.0</b>	576.420	576.420	597.339	627.554	648.473	671.715	718.201	746.092	778.632	799.551
<b>77.5</b>	425.342	425.342	443.937	471.828	490.422	511.341	548.529	571.772	592.690	613.609
<b>80.0</b>	292.859	290.534	306.804	327.723	341.668	362.587	392.802	404.424	418.370	434.639
<b>82.5</b>	178.969	176.645	190.591	199.888	216.158	225.455	246.373	253.346	262.643	271.940
<b>85.0</b>	85.998	83.674	92.971	95.295	106.917	109.241	123.187	130.159	130.159	134.808
<b>87.5</b>	23.243	23.243	25.567	25.567	30.216	27.891	34.864	37.188	37.188	39.513
<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><b>50.0</b></u>	<u><b>52.5</b></u>	<u><b>55.0</b></u>	<u><b>60.0</b></u>	<u><b>65.0</b></u>	<u><b>70.0</b></u>	<u><b>75.0</b></u>	<u><b>80.0</b></u>	<u><b>85.0</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873
<b>2.5</b>	890.197	890.197	892.522	894.846	894.846	892.522	890.197	887.873	887.873	885.549
<b>5.0</b>	878.576	880.900	883.225	887.873	892.522	892.522	892.522	890.197	885.549	880.900
<b>7.5</b>	876.252	876.252	876.252	878.576	885.549	890.197	892.522	892.522	890.197	885.549
<b>10.0</b>	890.197	885.549	883.225	876.252	873.927	878.576	885.549	887.873	885.549	878.576
<b>12.5</b>	897.170	897.170	897.170	887.873	878.576	880.900	883.225	892.522	892.522	887.873
<b>15.0</b>	906.467	908.792	911.116	920.413	913.440	908.792	901.819	908.792	906.467	897.170
<b>17.5</b>	941.331	936.683	934.359	932.034	932.034	922.737	915.764	918.089	918.089	911.116
<b>20.0</b>	969.223	966.898	962.250	950.628	943.656	943.656	934.359	934.359	941.331	936.683
<b>22.5</b>	994.790	987.817	987.817	985.493	976.196	976.196	964.574	959.926	966.898	964.574
<b>25.0</b>	1027.330	1025.005	1020.357	1020.357	1008.735	1004.087	999.438	992.465	999.438	1001.763
<b>27.5</b>	1062.194	1059.869	1055.221	1045.924	1043.599	1038.951	1036.627	1041.275	1043.599	1043.599

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## CANDELA TABULATION - (Cont.)

30.0	1094.734	1090.085	1083.112	1083.112	1078.464	1083.112	1083.112	1094.734	1097.058	1097.058
32.5	1120.301	1117.976	1117.976	1127.273	1131.922	1122.625	1129.598	1138.895	1138.895	1143.543
35.0	1171.435	1169.110	1164.462	1173.759	1171.435	1180.732	1190.029	1197.002	1197.002	1213.272
37.5	1220.244	1220.244	1220.244	1227.217	1227.217	1245.811	1255.109	1252.784	1259.757	1266.730
40.0	1280.676	1283.000	1285.324	1289.973	1289.973	1308.567	1320.188	1322.512	1334.134	1336.458
42.5	1355.052	1357.377	1355.052	1359.701	1362.025	1385.268	1387.592	1392.241	1392.241	1394.565
45.0	1420.132	1422.456	1420.132	1422.456	1434.078	1450.348	1450.348	1445.699	1445.699	1443.375
47.5	1485.212	1482.887	1480.563	1487.536	1489.860	1496.833	1492.185	1489.860	1480.563	1482.887
50.0	1540.994	1538.670	1538.670	1540.994	1538.670	1545.643	1536.346	1520.076	1508.454	1510.779
52.5	1578.183	1580.507	1580.507	1571.210	1568.886	1564.237	1547.967	1536.346	1517.752	1513.103
55.0	1603.750	1610.723	1608.398	1594.453	1580.507	1568.886	1543.319	1531.697	1508.454	1501.482
57.5	1615.371	1620.020	1615.371	1592.128	1573.534	1554.940	1524.724	1496.833	1475.915	1464.293
60.0	1601.425	1601.425	1599.101	1564.237	1547.967	1522.400	1482.887	1454.996	1415.483	1408.511
62.5	1564.237	1561.913	1554.940	1534.022	1496.833	1473.590	1429.429	1392.241	1355.052	1345.755
65.0	1485.212	1485.212	1480.563	1466.618	1420.132	1394.565	1357.377	1313.215	1278.351	1257.433
67.5	1357.377	1362.025	1364.349	1343.431	1313.215	1280.676	1243.487	1201.650	1176.083	1150.516
70.0	1197.002	1201.650	1203.974	1187.705	1162.138	1143.543	1101.706	1064.518	1036.627	1008.735
72.5	1013.384	1015.708	1015.708	1004.087	983.168	966.898	934.359	897.170	866.955	841.388
75.0	813.496	813.496	822.793	808.848	799.551	773.984	755.389	706.580	676.364	653.121
77.5	618.257	629.879	629.879	613.609	604.312	585.717	564.799	522.962	497.395	488.098
80.0	436.964	448.585	436.964	432.315	425.342	406.748	392.802	362.587	343.993	339.344
82.5	274.264	283.562	276.589	271.940	274.264	255.670	248.697	227.779	218.482	216.158
85.0	137.132	144.105	146.429	137.132	141.781	130.159	130.159	118.538	113.889	113.889
87.5	39.513	44.161	46.486	41.837	46.486	41.837	44.161	39.513	41.837	41.837
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	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873
2.5	883.225	880.900	880.900	880.900	880.900	880.900	880.900	880.900	878.576	878.576
5.0	878.576	873.927	873.927	873.927	873.927	878.576	885.549	887.873	892.522	894.846
7.5	883.225	878.576	878.576	880.900	885.549	892.522	897.170	892.522	887.873	885.549
10.0	873.927	873.927	880.900	887.873	892.522	890.197	887.873	880.900	876.252	876.252
12.5	880.900	885.549	890.197	890.197	883.225	878.576	878.576	876.252	885.549	890.197
15.0	890.197	897.170	901.819	897.170	892.522	887.873	892.522	894.846	894.846	890.197
17.5	899.494	901.819	906.467	901.819	901.819	911.116	918.089	918.089	915.764	913.440
20.0	932.034	925.061	925.061	922.737	929.710	927.386	932.034	934.359	941.331	939.007
22.5	964.574	959.926	950.628	948.304	950.628	950.628	957.601	957.601	957.601	955.277
25.0	1001.763	994.790	983.168	978.520	983.168	983.168	987.817	983.168	983.168	976.196
27.5	1036.627	1029.654	1025.005	1022.681	1013.384	1018.032	1011.060	1008.735	1011.060	1004.087
30.0	1090.085	1083.112	1080.788	1064.518	1048.248	1048.248	1043.599	1038.951	1036.627	1025.005
32.5	1141.219	1136.570	1131.922	1117.976	1099.382	1085.436	1080.788	1073.815	1071.491	1055.221
35.0	1210.947	1199.326	1190.029	1173.759	1152.840	1131.922	1117.976	1108.679	1101.706	1085.436
37.5	1266.730	1259.757	1248.136	1236.514	1203.974	1180.732	1164.462	1148.192	1136.570	1122.625
40.0	1336.458	1334.134	1320.188	1294.621	1266.730	1245.811	1222.569	1197.002	1176.083	1169.110
42.5	1401.538	1399.214	1385.268	1373.647	1341.107	1310.891	1278.351	1262.081	1236.514	1229.541
45.0	1450.348	1448.023	1445.699	1429.429	1399.214	1378.295	1348.080	1327.161	1294.621	1294.621
47.5	1482.887	1482.887	1492.185	1480.563	1452.672	1431.753	1410.835	1389.916	1375.971	1362.025
50.0	1520.076	1515.427	1520.076	1522.400	1513.103	1485.212	1475.915	1466.618	1438.726	1431.753
52.5	1531.697	1531.697	1547.967	1561.913	1552.616	1538.670	1524.724	1520.076	1503.806	1487.536
55.0	1517.752	1536.346	1561.913	1571.210	1575.858	1573.534	1561.913	1554.940	1536.346	1520.076
57.5	1489.860	1513.103	1543.319	1561.913	1568.886	1578.183	1568.886	1561.913	1550.291	1520.076
60.0	1438.726	1459.645	1499.157	1529.373	1536.346	1552.616	1552.616	1538.670	1520.076	1492.185
62.5	1364.349	1396.889	1434.078	1461.969	1492.185	1494.509	1508.454	1494.509	1473.590	1448.023
65.0	1276.027	1310.891	1345.755	1371.322	1399.214	1413.159	1424.781	1413.159	1385.268	1359.701

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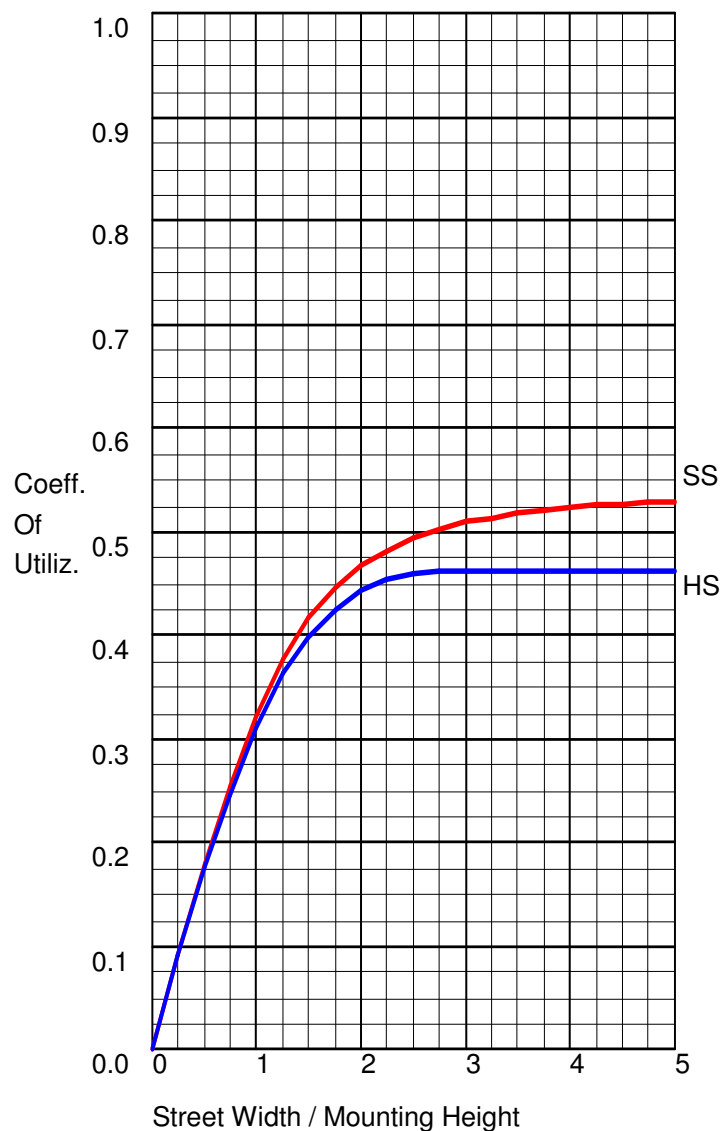
## CANDELA TABULATION - (Cont.)

67.5	1166.786	1197.002	1227.217	1250.460	1278.351	1283.000	1287.648	1276.027	1248.136	1208.623
70.0	1025.005	1045.924	1083.112	1101.706	1129.598	1113.328	1120.301	1108.679	1064.518	969.223
72.5	857.657	880.900	906.467	918.089	939.007	913.440	908.792	906.467	785.605	404.424
75.0	664.743	690.310	713.552	729.822	722.850	578.744	536.908	506.692	127.835	11.621
77.5	490.422	509.016	529.935	527.610	399.775	248.697	153.402	13.946	4.649	2.324
80.0	343.993	355.614	367.235	264.967	51.134	13.946	4.649	2.324	2.324	0.000
82.5	218.482	225.455	225.455	99.944	6.973	2.324	2.324	2.324	0.000	0.000
85.0	116.214	116.214	90.647	13.946	2.324	0.000	0.000	0.000	0.000	0.000
87.5	41.837	37.188	6.973	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	887.873	887.873	887.873	887.873	887.873	887.873	887.873	887.873
2.5	878.576	883.225	885.549	890.197	887.873	885.549	883.225	880.900
5.0	897.170	899.494	901.819	904.143	901.819	897.170	890.197	890.197
7.5	883.225	883.225	887.873	887.873	883.225	876.252	871.603	866.955
10.0	876.252	878.576	885.549	890.197	890.197	883.225	876.252	871.603
12.5	892.522	890.197	887.873	887.873	890.197	883.225	873.927	869.279
15.0	894.846	897.170	897.170	897.170	894.846	890.197	883.225	878.576
17.5	915.764	913.440	908.792	904.143	897.170	897.170	894.846	890.197
20.0	934.359	927.386	915.764	918.089	911.116	911.116	904.143	901.819
22.5	952.953	941.331	936.683	939.007	934.359	934.359	927.386	927.386
25.0	976.196	969.223	959.926	952.953	957.601	962.250	952.953	955.277
27.5	999.438	990.141	990.141	985.493	985.493	985.493	973.871	978.520
30.0	1027.330	1020.357	1011.060	1006.411	1020.357	1031.978	1020.357	1031.978
32.5	1045.924	1052.897	1043.599	1045.924	1045.924	1057.545	1062.194	1078.464
35.0	1078.464	1080.788	1076.139	1090.085	1097.058	1113.328	1122.625	1127.273
37.5	1115.652	1115.652	1127.273	1136.570	1138.895	1159.813	1173.759	1176.083
40.0	1164.462	1159.813	1183.056	1197.002	1206.299	1222.569	1241.163	1238.839
42.5	1220.244	1215.596	1236.514	1252.784	1269.054	1294.621	1310.891	1310.891
45.0	1287.648	1283.000	1299.270	1324.837	1329.485	1345.755	1366.674	1373.647
47.5	1359.701	1350.404	1366.674	1385.268	1392.241	1401.538	1422.456	1427.105
50.0	1429.429	1417.808	1424.781	1441.051	1448.023	1454.996	1461.969	1464.293
52.5	1480.563	1466.618	1459.645	1464.293	1466.618	1464.293	1461.969	1461.969
55.0	1492.185	1468.942	1452.672	1448.023	1443.375	1436.402	1424.781	1422.456
57.5	1473.590	1454.996	1427.105	1408.511	1394.565	1380.619	1366.674	1366.674
60.0	1445.699	1413.159	1385.268	1362.025	1331.810	1310.891	1283.000	1289.973
62.5	1399.214	1357.377	1317.864	1283.000	1238.839	1206.299	1171.435	1171.435
65.0	1308.567	1250.460	1187.705	1124.949	1029.654	966.898	880.900	878.576
67.5	1138.895	1020.357	843.712	636.851	392.802	278.913	139.457	139.457
70.0	736.795	411.397	97.620	20.918	11.621	9.297	9.297	9.297
72.5	58.107	13.946	6.973	6.973	4.649	4.649	4.649	4.649
75.0	6.973	4.649	2.324	2.324	2.324	2.324	2.324	2.324
77.5	2.324	2.324	2.324	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

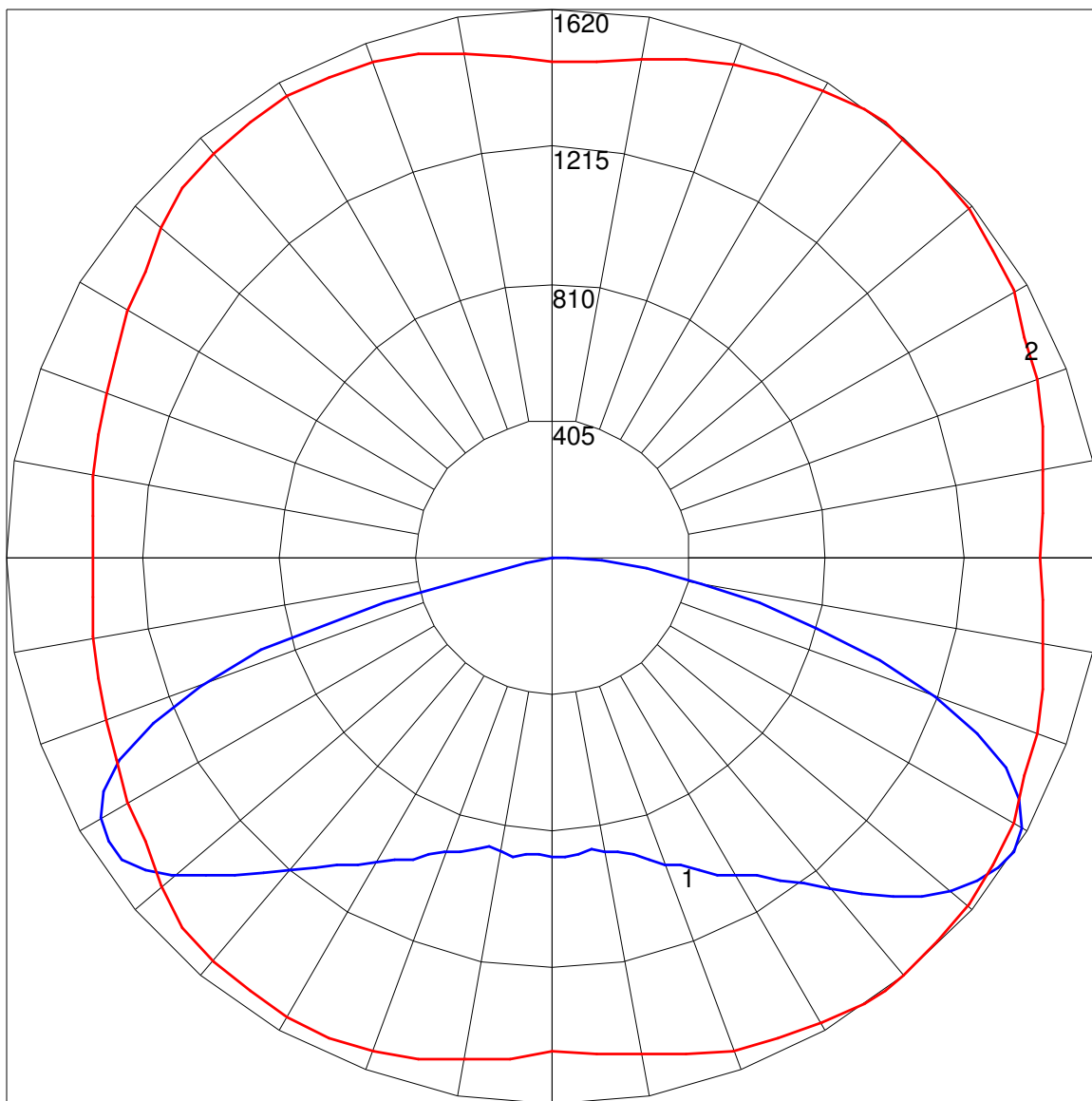
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

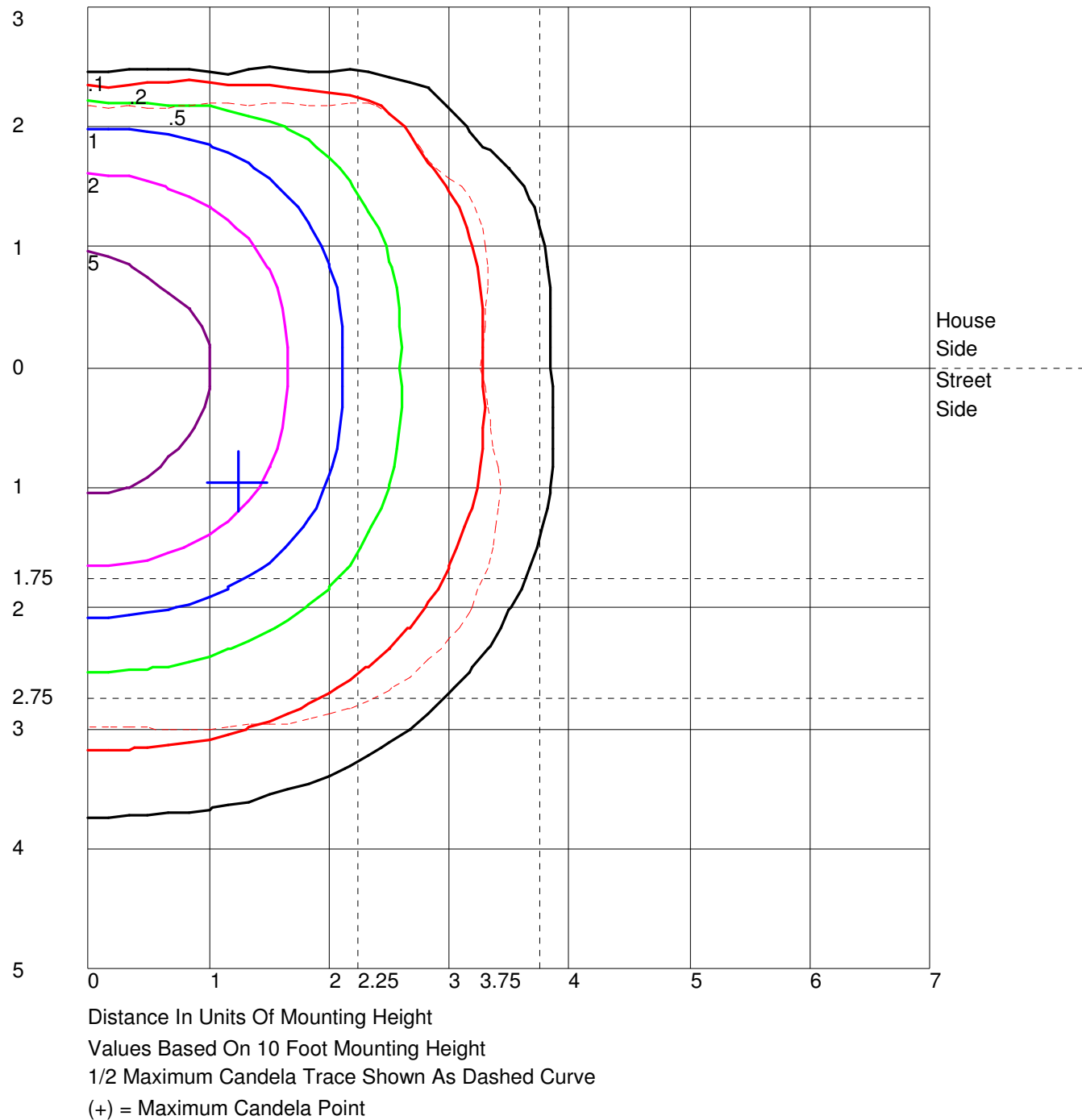
	Lumens	Percent Of Luminaire
Downward Street Side	3164.7	53.8
Downward House Side	2722.2	46.2
Downward Total	5886.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5886.9	100.0

POLAR GRAPH



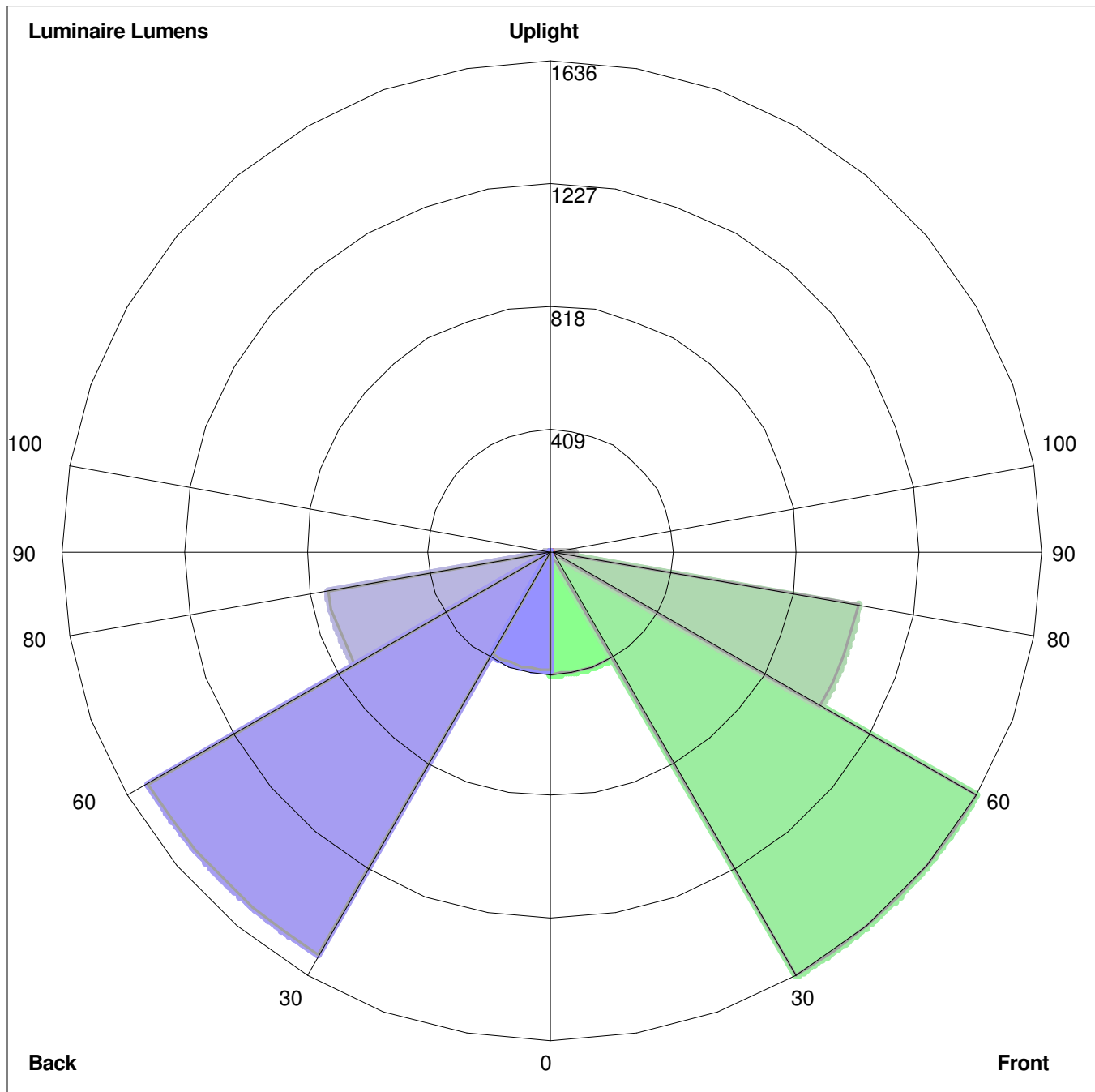
Maximum Candela = 1620.02 Located At Horizontal Angle = 52.5, Vertical Angle = 57.5  
# 1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=409.7, Medium=1636.1, High=1039.3, Very High=79.5  
Back: Low=396.9, Medium=1550.6, High=758.3, Very High=16.5  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2