



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-750-T5-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011764
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L83-750-T5-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] VSM OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9214
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4349.611
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	4349.611
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	208.712 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-750-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	473.0	N.A.	5.1
FM - Front-Medium (30-60)	2151.2	N.A.	23.3
FH - Front-High (60-80)	1951.9	N.A.	21.2
FVH - Front-Very High (80-90)	31.2	N.A.	0.3
BL - Back-Low (0-30)	473.0	N.A.	5.1
BM - Back-Medium (30-60)	2151.2	N.A.	23.3
BH - Back-High (60-80)	1951.9	N.A.	21.2
BVH - Back-Very High (80-90)	31.2	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	9214.6	N.A.	100.0
BUG Rating	B3-U0-G2		

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CANDELA TABULATION

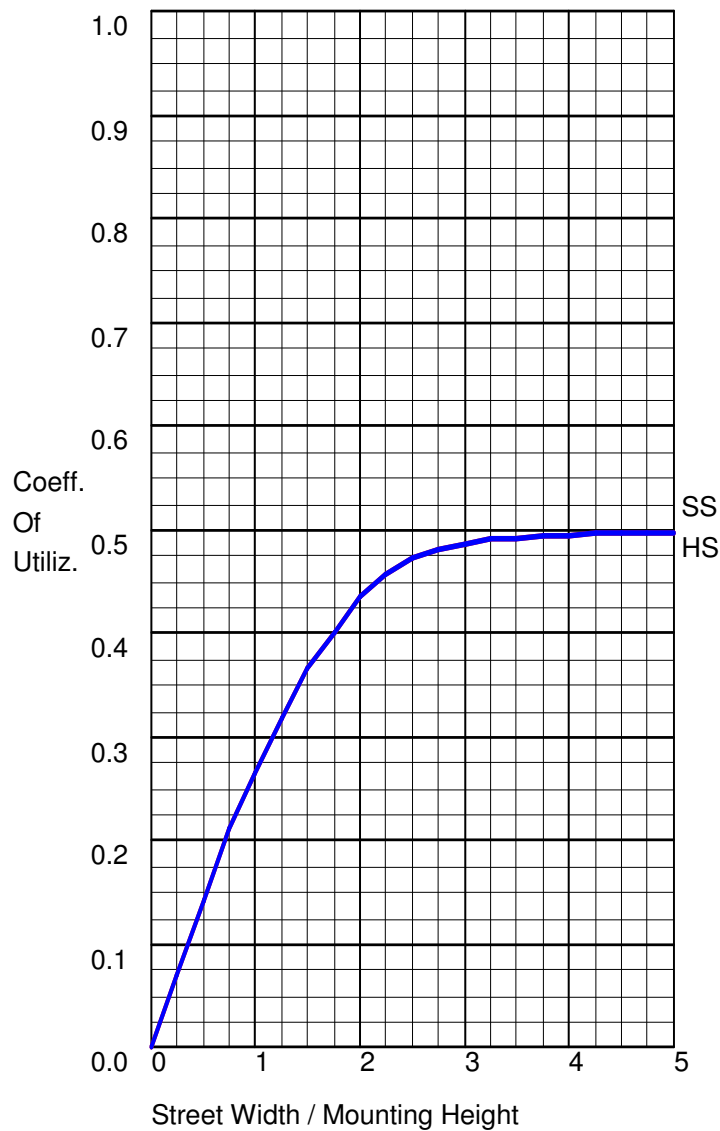
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567
2.5	1007.023	1007.937	1007.937	1007.023	1007.480	1007.023	1007.023	1006.567	1007.023	1007.480
5.0	1013.874	1015.701	1015.244	1014.331	1014.787	1014.331	1013.874	1012.961	1013.874	1014.787
7.5	1026.205	1028.488	1028.488	1027.118	1027.118	1027.118	1027.575	1026.662	1027.118	1029.402
10.0	1041.276	1043.103	1043.559	1042.189	1042.646	1043.103	1043.559	1043.559	1044.473	1046.300
12.5	1055.890	1058.174	1059.087	1057.717	1058.174	1059.544	1060.457	1060.914	1061.827	1063.198
15.0	1073.245	1075.072	1074.615	1075.072	1074.615	1075.528	1075.985	1077.355	1078.725	1079.182
17.5	1091.970	1094.253	1093.340	1093.796	1092.426	1093.340	1092.883	1093.340	1094.710	1095.167
20.0	1115.261	1116.175	1114.805	1114.805	1112.978	1112.064	1112.064	1112.064	1112.064	1112.521
22.5	1138.096	1138.553	1137.183	1136.270	1134.443	1133.529	1133.073	1131.703	1131.246	1131.246
25.0	1165.042	1165.498	1163.672	1162.301	1159.105	1157.734	1156.821	1154.994	1154.538	1154.081
27.5	1201.121	1199.294	1196.554	1194.727	1190.160	1188.790	1186.507	1183.766	1183.310	1183.310
30.0	1241.767	1239.484	1237.200	1235.830	1230.350	1228.523	1224.413	1220.759	1221.216	1221.672
32.5	1290.634	1288.807	1285.610	1286.524	1281.043	1280.130	1275.106	1270.083	1267.799	1268.256
35.0	1348.635	1346.808	1345.895	1346.808	1341.785	1341.328	1338.588	1333.107	1331.737	1329.910
37.5	1417.140	1416.227	1417.140	1418.967	1416.227	1418.053	1417.597	1413.030	1410.290	1407.549
40.0	1492.496	1495.692	1496.149	1503.000	1503.913	1509.850	1511.220	1509.393	1510.764	1508.480
42.5	1576.072	1579.269	1581.552	1591.599	1599.363	1612.608	1616.261	1620.372	1621.742	1628.135
45.0	1663.758	1665.585	1669.695	1684.310	1697.097	1719.019	1728.153	1735.917	1742.310	1749.618
47.5	1758.752	1762.405	1762.862	1784.327	1806.705	1833.650	1842.328	1854.659	1865.619	1872.927
50.0	1871.100	1874.297	1878.407	1903.069	1933.668	1972.944	1982.535	1993.039	2003.543	2013.590
52.5	2007.196	2008.110	2013.590	2052.866	2092.599	2148.317	2158.821	2172.979	2179.372	2191.703
55.0	2153.340	2157.451	2176.175	2236.003	2302.681	2368.446	2394.935	2408.179	2415.943	2432.384
57.5	2310.902	2315.926	2348.808	2438.778	2545.646	2644.750	2691.333	2703.664	2711.428	2732.436
60.0	2465.267	2478.511	2538.795	2661.648	2818.752	2962.613	3042.992	3064.000	3063.087	3074.048
62.5	2525.551	2553.410	2663.018	2837.477	3060.803	3287.327	3435.297	3480.967	3485.991	3488.275
65.0	2351.548	2374.840	2541.079	2770.799	3084.095	3425.707	3725.302	3871.903	3965.526	4000.692
67.5	1881.147	1883.887	2086.206	2348.351	2722.389	3159.907	3617.977	3981.967	4237.263	4349.611
70.0	1127.136	1118.002	1292.004	1523.094	1881.604	2352.462	2921.967	3454.935	3827.603	3992.928
72.5	531.599	521.551	607.411	708.342	938.975	1209.342	1685.223	2193.073	2574.418	2774.909
75.0	277.674	275.390	298.225	319.233	381.344	453.046	636.183	896.959	1136.726	1305.705
77.5	170.349	172.176	186.790	198.664	219.216	236.114	272.650	323.800	388.652	427.928
80.0	114.632	114.632	120.112	131.530	146.601	155.278	172.633	187.247	203.231	208.712
82.5	71.702	71.245	73.529	79.009	91.340	96.820	105.954	112.348	118.285	116.002
85.0	26.032	26.489	31.056	35.623	44.757	46.583	51.150	53.891	52.520	50.694
87.5	4.110	4.567	5.937	7.764	10.504	11.417	14.158	15.984	16.441	16.441
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>
0.0	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567	1006.567
2.5	1007.023	1006.567	1007.480	1007.480	1007.937	1007.937	1007.023	1007.480	1007.480
5.0	1013.874	1013.874	1014.787	1014.787	1015.701	1016.157	1015.244	1016.157	1017.528
7.5	1028.032	1027.575	1028.488	1028.945	1029.858	1030.315	1029.858	1031.229	1033.512
10.0	1045.386	1044.930	1045.843	1045.843	1046.756	1047.213	1046.756	1048.583	1051.780
12.5	1062.741	1062.284	1062.741	1063.198	1064.111	1063.198	1063.654	1065.938	1070.505
15.0	1079.182	1078.269	1078.269	1078.725	1079.639	1079.639	1080.552	1083.749	1088.773
17.5	1094.710	1093.796	1095.167	1095.167	1096.080	1097.907	1099.277	1103.387	1109.324
20.0	1111.608	1111.151	1112.978	1113.435	1116.175	1118.458	1120.285	1125.765	1132.159
22.5	1129.876	1129.419	1132.616	1134.443	1138.096	1140.837	1144.490	1150.427	1155.908
25.0	1153.167	1153.167	1156.821	1159.561	1164.128	1168.239	1171.892	1178.286	1184.223
27.5	1183.310	1183.310	1186.507	1191.074	1195.184	1199.294	1203.861	1208.885	1214.365

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30.0	1221.672	1222.129	1224.869	1228.980	1233.547	1237.657	1242.224	1246.334	1250.445
32.5	1269.169	1270.996	1274.650	1279.217	1282.870	1285.610	1288.807	1291.548	1295.201
35.0	1331.737	1333.564	1338.131	1343.611	1344.981	1348.178	1348.635	1352.745	1355.029
37.5	1410.746	1411.203	1416.227	1420.337	1423.077	1423.077	1423.077	1423.534	1427.644
40.0	1509.850	1507.567	1513.047	1515.331	1515.331	1507.110	1504.826	1504.370	1507.567
42.5	1624.482	1619.915	1621.742	1619.458	1611.238	1595.710	1589.316	1589.316	1595.253
45.0	1748.248	1738.200	1733.633	1725.413	1709.428	1689.790	1680.656	1677.002	1687.963
47.5	1871.557	1862.423	1851.918	1843.241	1818.123	1795.288	1784.784	1778.846	1787.524
50.0	2013.590	2009.023	1998.062	1987.558	1952.849	1920.880	1906.266	1898.045	1907.179
52.5	2198.097	2201.294	2194.443	2165.215	2115.434	2068.851	2044.189	2033.228	2039.622
55.0	2446.542	2455.219	2441.061	2388.541	2319.123	2247.421	2205.861	2184.396	2187.136
57.5	2750.247	2758.925	2741.570	2658.907	2573.961	2463.896	2396.305	2356.115	2349.265
60.0	3102.820	3110.584	3099.623	3002.802	2887.714	2731.066	2619.631	2554.323	2541.992
62.5	3511.110	3534.401	3522.527	3383.690	3183.199	2957.132	2776.279	2661.648	2626.025
65.0	4008.456	3987.448	3860.485	3566.370	3227.042	2901.872	2661.191	2488.102	2425.534
67.5	4302.114	4092.489	3756.814	3307.878	2877.667	2486.275	2190.790	1992.582	1911.289
70.0	3913.919	3575.048	3071.307	2520.984	2024.094	1640.466	1333.107	1178.286	1109.781
72.5	2708.688	2318.209	1736.830	1202.491	864.990	713.822	590.970	539.363	514.244
75.0	1180.569	877.777	573.158	449.393	381.344	348.005	313.753	299.595	291.375
77.5	369.927	317.863	277.674	253.925	232.917	216.932	200.491	186.334	180.396
80.0	205.972	190.444	177.656	165.325	154.821	142.947	126.049	120.112	117.829
82.5	119.199	114.175	108.695	101.387	94.994	85.403	75.355	74.442	75.812
85.0	52.064	52.520	50.694	47.497	45.213	39.733	36.079	35.623	35.623
87.5	16.898	16.441	14.614	13.701	12.788	11.874	10.047	10.504	10.047
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

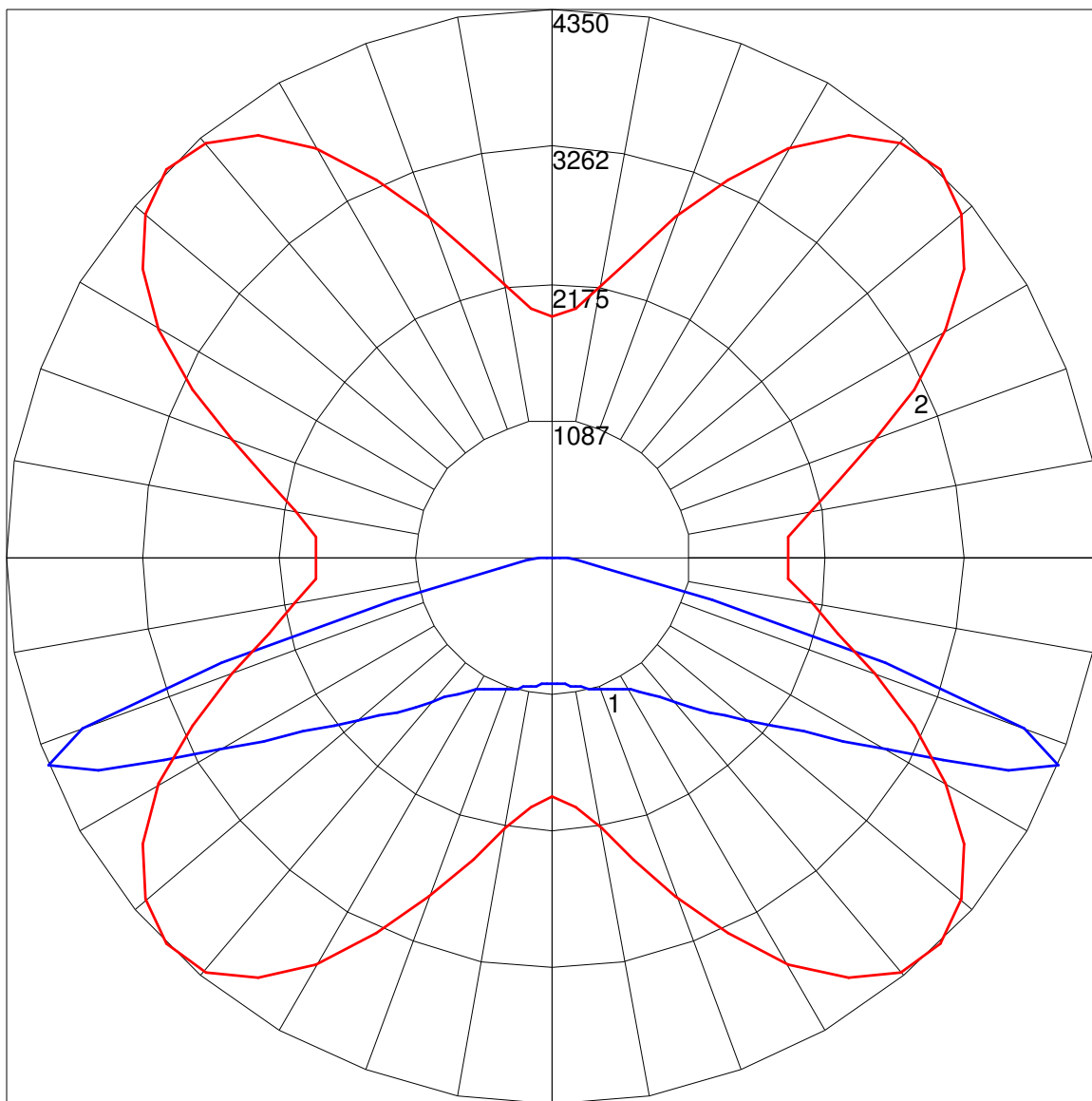
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

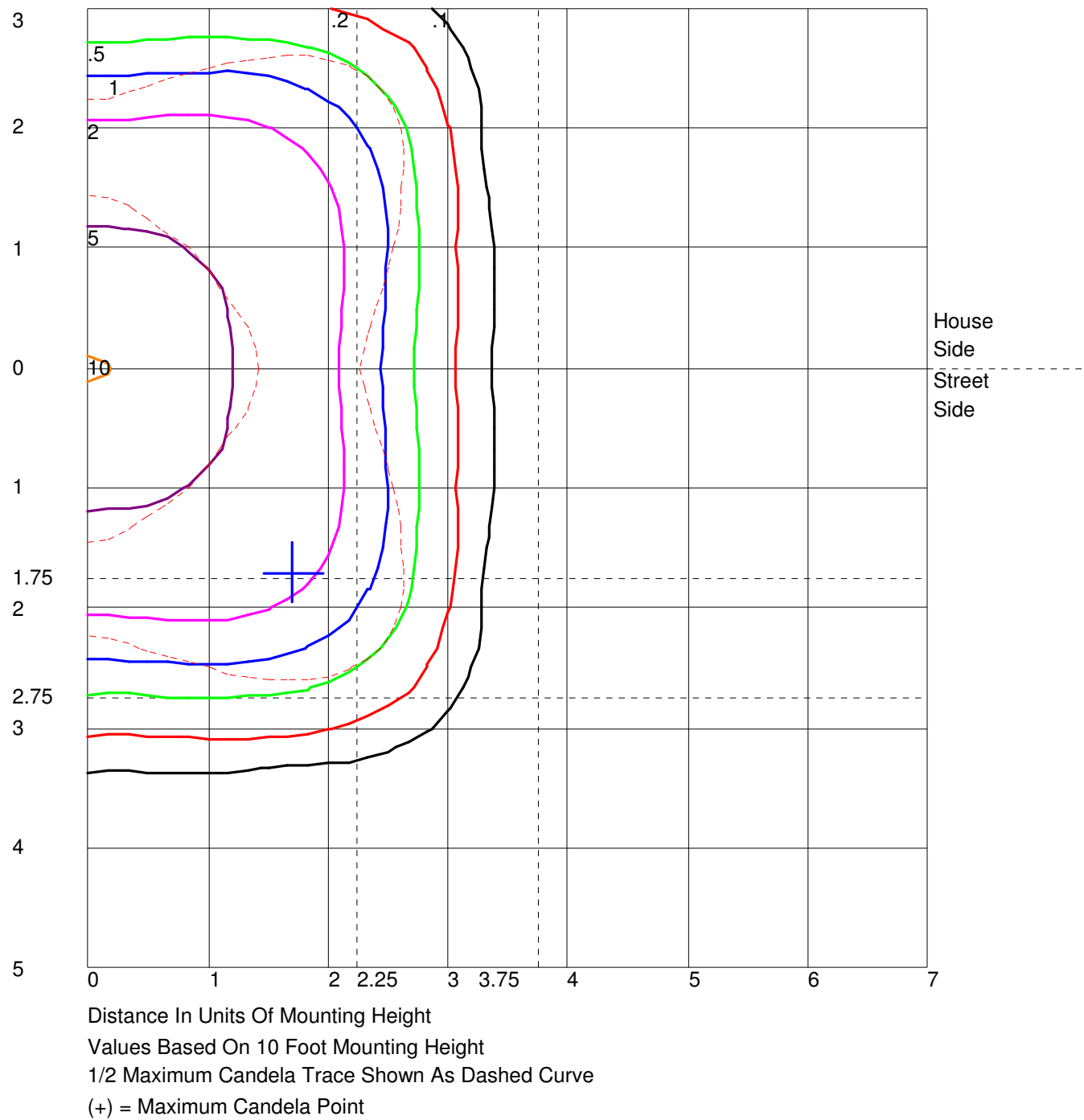
	Lumens	Percent Of Luminaire
Downward Street Side	4607.2	50.0
Downward House Side	4607.2	50.0
Downward Total	9214.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9214.4	100.0

POLAR GRAPH

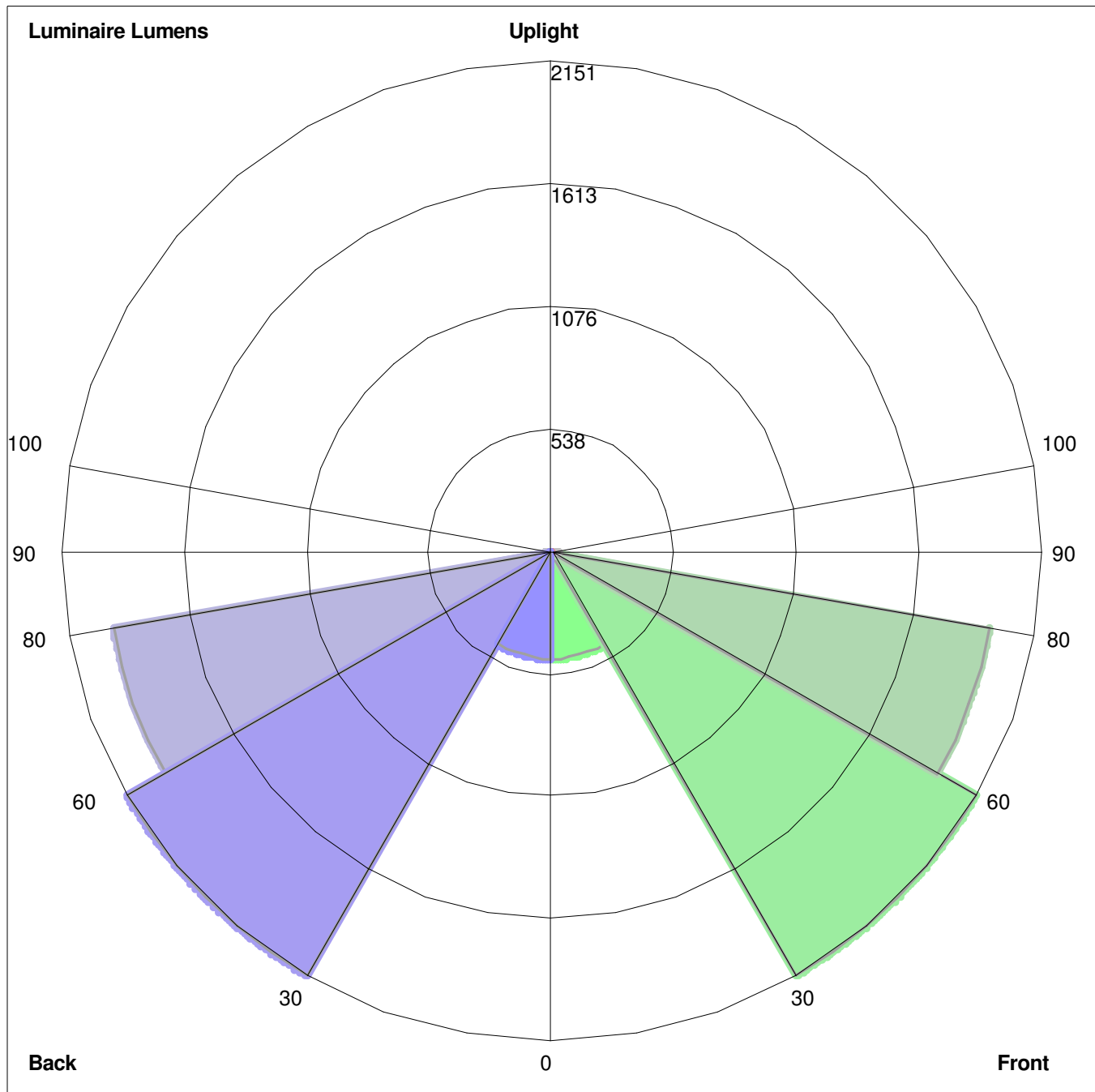


Maximum Candela = 4349.611 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=473.0, Medium=2151.2, High=1951.9, Very High=31.2
Back: Low=473.0, Medium=2151.2, High=1951.9, Very High=31.2
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2