



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L220-750-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011760
[TESTLAB] ATA-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L220-750-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] III OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23190
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	182
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16622.571
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	16622.571
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	3390.145 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L220-750-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2340.0	N.A.	10.1
FM - Front-Medium (30-60)	8105.5	N.A.	35.0
FH - Front-High (60-80)	5416.3	N.A.	23.4
FVH - Front-Very High (80-90)	165.3	N.A.	0.7
BL - Back-Low (0-30)	1270.4	N.A.	5.5
BM - Back-Medium (30-60)	3012.3	N.A.	13.0
BH - Back-High (60-80)	2639.2	N.A.	11.4
BVH - Back-Very High (80-90)	241.0	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	23190.0	N.A.	100.0
BUG Rating	B4-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610
2.5	5085.815	5050.016	5041.663	5040.470	5015.410	5003.477	4966.485	4948.586	4933.073	4902.048
5.0	5344.759	5312.540	5295.834	5279.128	5236.170	5196.791	5131.160	5075.075	5050.016	4968.872
7.5	5439.029	5411.584	5398.457	5398.457	5385.331	5355.499	5277.935	5202.757	5174.118	5048.823
10.0	5382.945	5367.432	5354.306	5371.012	5392.491	5419.937	5396.071	5324.473	5299.414	5144.286
12.5	5338.793	5329.246	5313.734	5331.633	5354.306	5404.424	5437.836	5415.164	5404.424	5246.909
15.0	5355.499	5348.339	5324.473	5325.667	5337.599	5387.718	5449.769	5472.442	5480.795	5369.818
17.5	5441.416	5434.256	5400.844	5381.751	5367.432	5405.617	5474.828	5523.753	5544.039	5492.728
20.0	5548.812	5552.392	5510.627	5490.341	5456.929	5473.635	5530.913	5594.157	5614.443	5614.443
22.5	5662.175	5662.175	5629.956	5615.637	5596.544	5594.157	5626.376	5693.201	5708.714	5737.353
25.0	5750.479	5751.672	5733.773	5732.579	5751.672	5756.445	5760.025	5804.177	5822.076	5856.682
27.5	5824.463	5829.236	5801.790	5824.463	5893.674	5940.212	5933.053	5930.666	5949.759	5973.625
30.0	5906.800	5902.027	5872.195	5878.161	5999.877	6144.266	6139.492	6084.601	6088.181	6091.761
32.5	5913.960	5915.153	5910.380	5930.666	6065.508	6350.705	6367.411	6277.914	6254.048	6208.703
35.0	5867.422	5874.581	5904.414	5993.911	6165.745	6539.246	6651.415	6512.993	6459.295	6316.100
37.5	5802.984	5813.723	5860.262	6073.861	6423.496	6737.332	6966.444	6776.711	6672.894	6390.084
40.0	5730.193	5748.092	5828.043	6274.334	7100.093	7520.132	7394.837	7077.421	6927.066	6466.455
42.5	5626.376	5659.789	5758.832	6165.745	7113.219	8302.933	8452.094	7697.933	7404.383	6591.750
45.0	5829.236	5845.942	5799.404	6075.055	6929.452	8196.729	9148.977	8860.200	8522.498	7039.235
47.5	6423.496	6406.790	6329.226	6379.344	6866.208	7896.020	9131.078	9397.182	9314.845	8183.603
50.0	6402.017	6378.151	6527.313	6866.208	7159.758	7782.657	8685.980	9158.524	9133.464	8332.765
52.5	5832.816	5812.530	6182.451	6903.200	7664.521	8126.325	8503.406	8796.956	8806.502	8075.014
55.0	4502.294	4536.900	5230.203	6626.356	8088.140	9128.691	9009.362	8961.630	8962.824	8265.940
57.5	3371.053	3461.743	4082.255	5683.654	8102.459	10665.653	10393.582	9638.227	9533.218	8609.609
60.0	2719.515	2773.213	3119.268	3987.985	7021.336	11609.547	12992.574	10972.329	10641.787	9311.265
62.5	1965.354	2016.665	2204.012	2615.698	4884.148	10950.850	15517.582	13302.830	12564.182	10498.592
65.0	1573.953	1604.979	1723.115	1818.578	2731.448	9041.581	15653.617	15755.047	14911.389	11954.409
67.5	1378.253	1386.606	1544.121	1567.987	1677.770	5096.554	13935.275	16622.571	16423.291	12836.253
70.0	1093.056	1072.770	1300.689	1369.900	1297.109	2490.402	10563.029	14907.809	15382.740	13009.280
72.5	769.674	749.388	838.885	1164.654	1022.652	1415.245	5847.136	11348.216	12220.513	11738.423
75.0	594.260	588.293	596.646	897.356	848.431	917.642	2558.420	6888.880	7785.043	7837.548
77.5	410.493	405.720	415.266	597.840	723.136	632.445	1099.023	2745.767	3651.477	5104.907
80.0	264.911	260.138	273.264	377.081	632.445	416.459	575.167	1052.484	1550.088	3390.145
82.5	144.388	139.615	156.321	223.146	420.039	231.499	301.903	448.678	560.848	1552.474
85.0	60.858	57.278	68.018	101.430	149.162	96.657	122.909	159.901	181.381	341.282
87.5	11.933	11.933	13.126	22.673	27.446	20.286	23.866	31.026	33.412	40.572
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>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610	4837.610
2.5	4859.089	4842.383	4826.870	4777.945	4742.146	4688.448	4638.330	4626.397	4577.472	4558.379
5.0	4874.602	4824.483	4783.912	4676.515	4569.119	4445.016	4323.300	4243.350	4132.374	4071.516
7.5	4904.434	4824.483	4756.466	4579.858	4387.738	4157.433	3911.614	3690.855	3422.364	3303.035
10.0	4948.586	4842.383	4740.953	4490.361	4188.458	3780.352	3301.842	2904.475	2627.631	2508.302
12.5	5005.864	4874.602	4736.180	4398.478	3947.413	3274.396	2682.523	2461.763	2414.032	2397.326
15.0	5081.041	4923.527	4750.499	4310.174	3640.737	2775.599	2453.410	2405.679	2390.166	2388.973
17.5	5171.732	4987.965	4780.332	4215.904	3263.656	2501.142	2418.805	2397.326	2387.779	2383.006
20.0	5271.968	5066.722	4824.483	4107.314	2893.735	2431.931	2402.099	2386.586	2360.334	2335.274
22.5	5388.911	5163.379	4876.988	3977.245	2628.824	2410.452	2378.233	2342.434	2306.635	2272.030
25.0	5515.400	5258.842	4928.300	3824.504	2508.302	2392.552	2335.274	2279.190	2237.424	2198.046
27.5	5653.822	5357.885	4966.485	3646.703	2465.343	2367.493	2277.996	2211.172	2168.213	2125.255

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CANDELA TABULATION - (Cont.)

30.0	5797.017	5464.089	5016.604	3462.936	2435.511	2326.921	2217.138	2138.381	2093.036	2058.430
32.5	5935.439	5579.838	5073.882	3293.489	2404.485	2274.416	2151.507	2063.204	2026.211	1999.959
35.0	6039.256	5655.015	5114.454	3131.201	2361.527	2212.365	2093.036	1989.219	1954.614	1941.488
37.5	6077.441	5662.175	5106.101	2996.359	2309.022	2146.734	2032.178	1928.361	1890.176	1866.310
40.0	6115.626	5681.268	5103.714	2903.282	2263.677	2084.683	1979.673	1869.890	1820.965	1789.939
42.5	6166.938	5721.840	5128.773	2834.071	2223.105	2030.985	1933.135	1819.772	1742.208	1706.409
45.0	6442.589	6013.003	5359.079	2862.710	2201.626	1986.833	1897.336	1774.427	1667.030	1630.038
47.5	7199.137	6663.348	5979.591	3274.396	2371.073	1976.093	1875.857	1761.300	1627.652	1596.626
50.0	7349.491	6802.963	6100.114	3536.920	2822.138	2201.626	1883.016	1779.200	1677.770	1748.174
52.5	7164.531	6623.969	5931.859	3230.244	2671.783	2501.142	2039.338	1797.099	1824.545	2108.549
55.0	7376.937	6873.368	6263.595	3375.826	2412.838	2201.626	2172.987	1831.705	1961.774	2456.990
57.5	7684.807	7239.708	6808.930	4038.103	2380.619	1976.093	1891.369	1823.352	2026.211	2621.665
60.0	8150.191	7672.874	7481.947	4987.965	2437.898	1863.924	1671.803	1633.618	2001.152	2497.562
62.5	8859.007	8276.680	8169.284	5917.540	2583.479	1772.040	1529.802	1514.289	1905.689	2223.105
65.0	9530.831	8652.567	8421.069	6298.200	2882.996	1694.476	1404.506	1410.472	1773.233	1916.429
67.5	9776.649	8808.889	8578.583	6406.790	3230.244	1593.046	1279.210	1287.563	1575.147	1669.417
70.0	9572.596	8773.090	8700.299	6294.620	3535.727	1498.776	1128.855	1139.595	1388.993	1464.170
72.5	8372.144	7768.337	7868.574	5854.295	3727.847	1400.926	973.727	974.920	1195.680	1238.638
75.0	5200.371	4879.375	5073.882	4783.912	3703.981	1329.328	801.893	805.473	995.206	936.735
77.5	3479.642	3106.142	3221.891	3774.386	3458.163	1255.344	637.218	631.252	769.674	503.570
80.0	2571.546	2249.357	2411.645	2896.122	3046.477	1178.973	435.552	453.451	516.696	252.978
82.5	1028.619	949.861	1096.636	1632.425	2298.282	968.954	218.373	274.457	261.331	143.195
85.0	140.809	115.749	156.321	453.451	1164.654	578.747	87.110	95.463	78.757	60.858
87.5	25.059	19.093	21.479	36.992	261.331	164.674	17.899	17.899	10.740	5.966
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

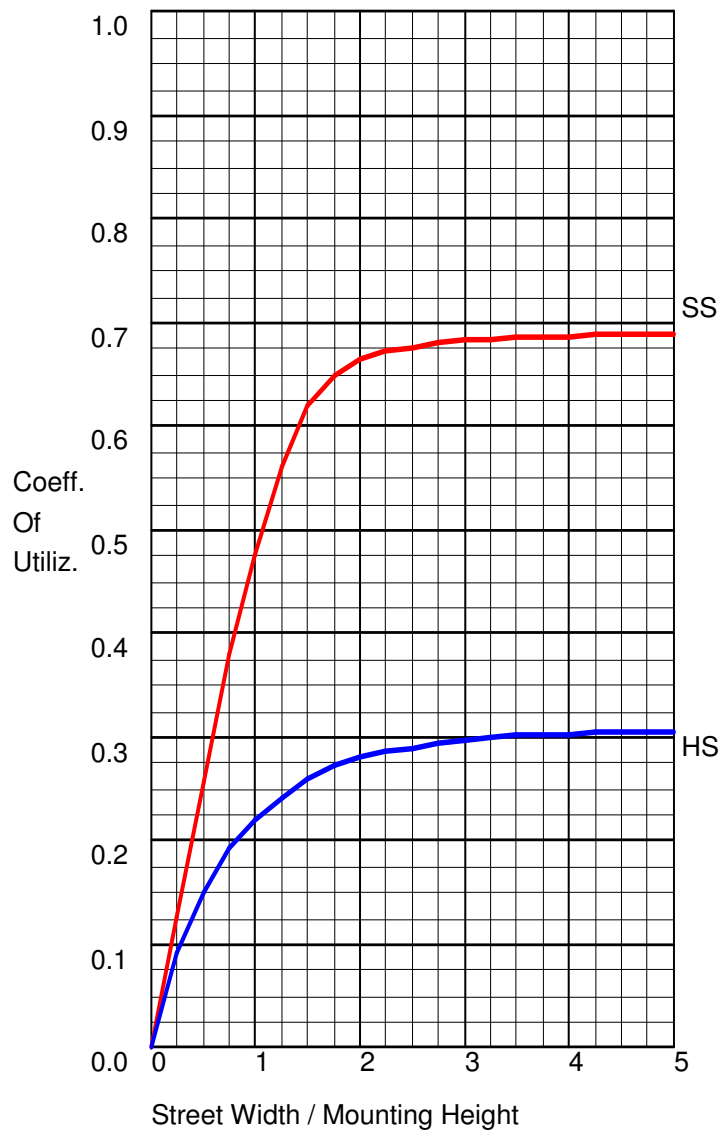
Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	4837.610	4837.610
2.5	4555.993	4545.253
5.0	4058.389	4044.070
7.5	3211.151	3199.218
10.0	2470.116	2465.343
12.5	2393.746	2391.359
15.0	2392.552	2393.746
17.5	2380.619	2378.233
20.0	2324.535	2320.955
22.5	2256.517	2250.551
25.0	2180.146	2172.987
27.5	2104.969	2103.776
30.0	2040.531	2036.951
32.5	1978.480	1974.900
35.0	1918.815	1914.042
37.5	1843.638	1840.058
40.0	1762.494	1762.494
42.5	1670.610	1669.417
45.0	1600.206	1595.433
47.5	1566.794	1569.180
50.0	1778.007	1800.679
52.5	2244.584	2275.610
55.0	2735.027	2785.146
57.5	3005.905	3072.729
60.0	2732.641	2742.187
62.5	2282.769	2254.130
65.0	1849.604	1806.646

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L220-750-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	1532.188	1523.835
70.0	1299.496	1291.143
72.5	1076.350	1065.611
75.0	694.497	688.530
77.5	405.720	394.980
80.0	264.911	260.138
82.5	164.674	162.288
85.0	34.605	32.219
87.5	1.193	0.000
90.0	0.000	0.000

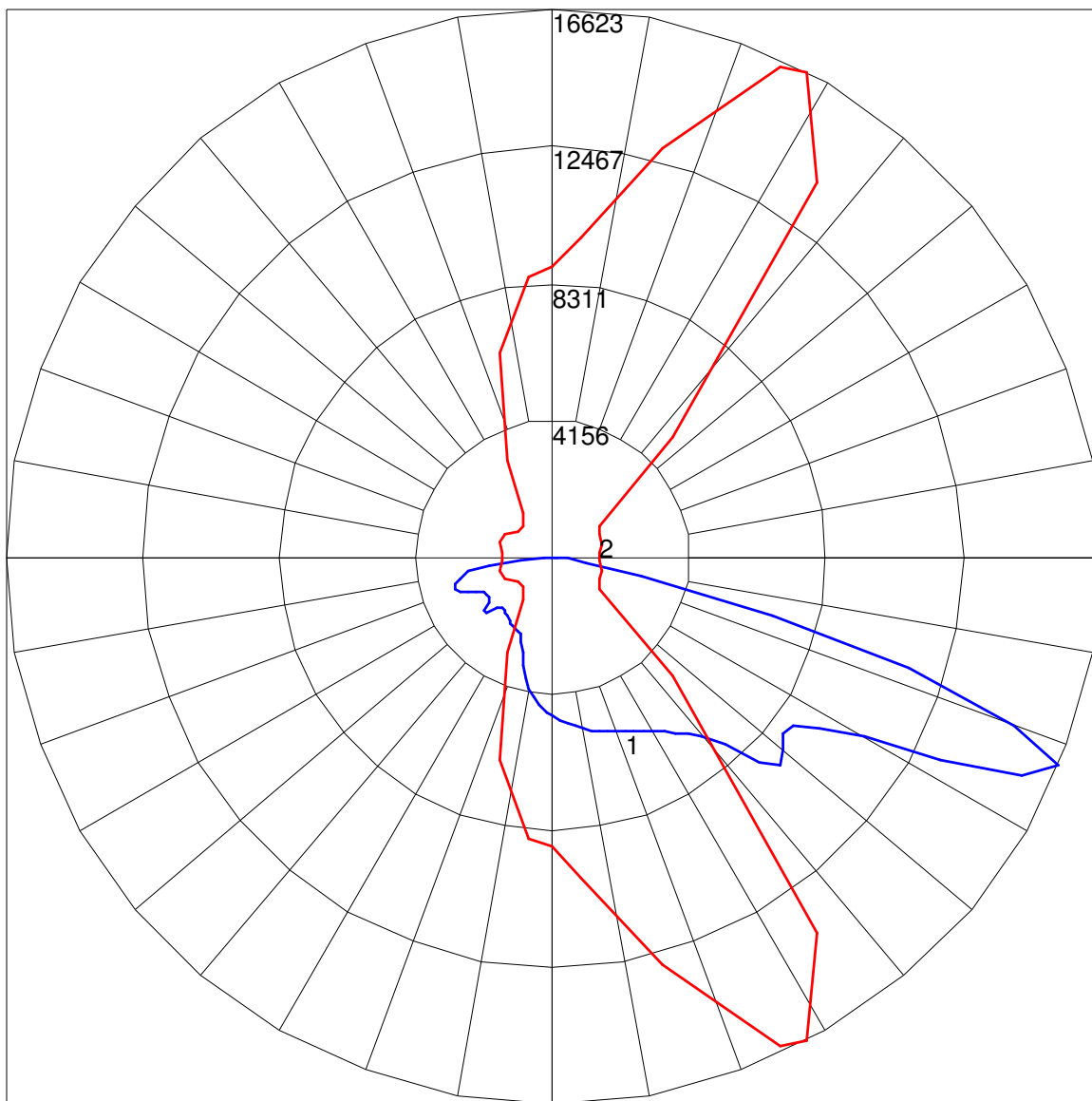
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

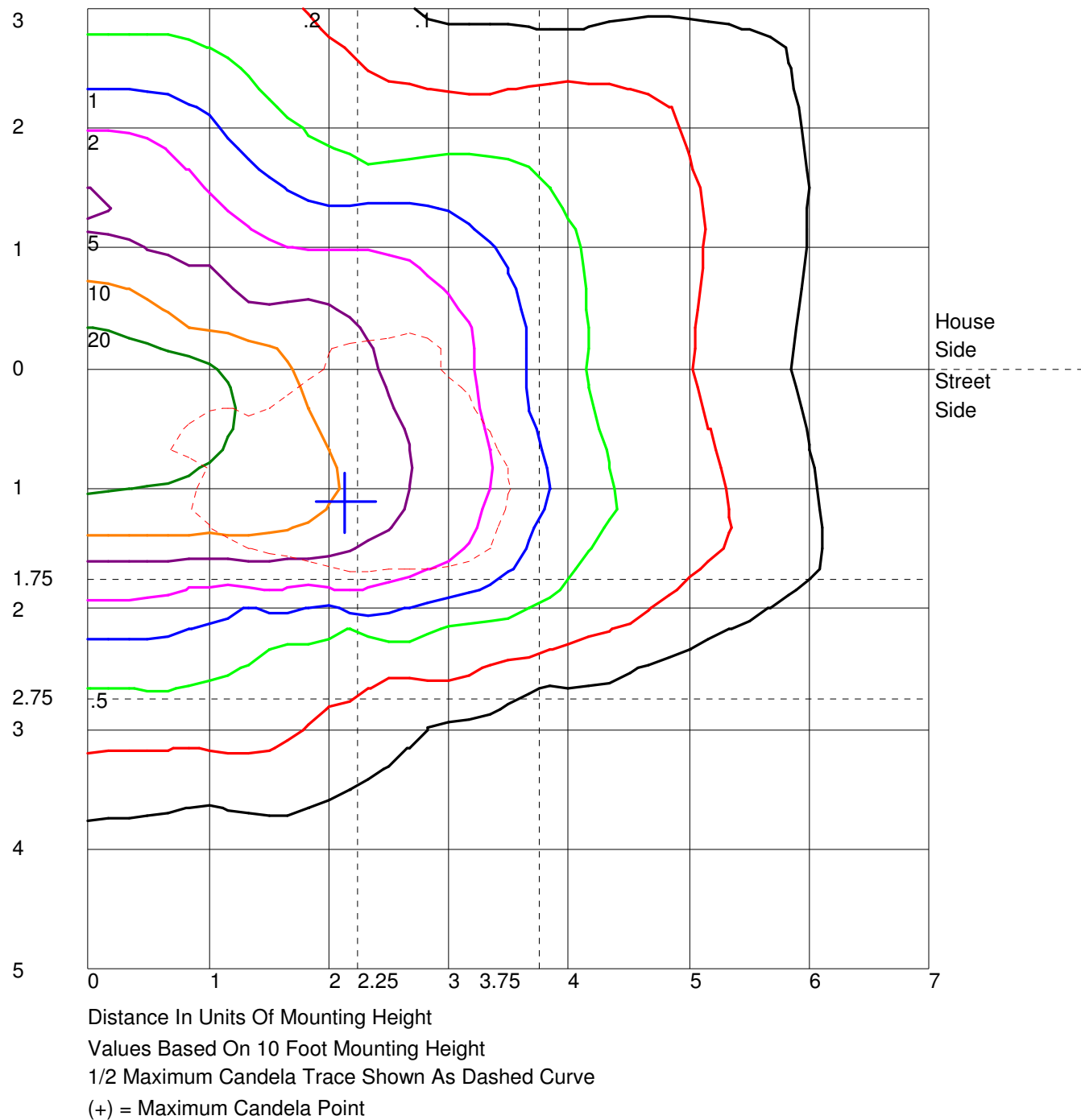
	Lumens	Percent Of Luminaire
Downward Street Side	16027.1	69.1
Downward House Side	7162.9	30.9
Downward Total	23190.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23190.0	100.0

POLAR GRAPH

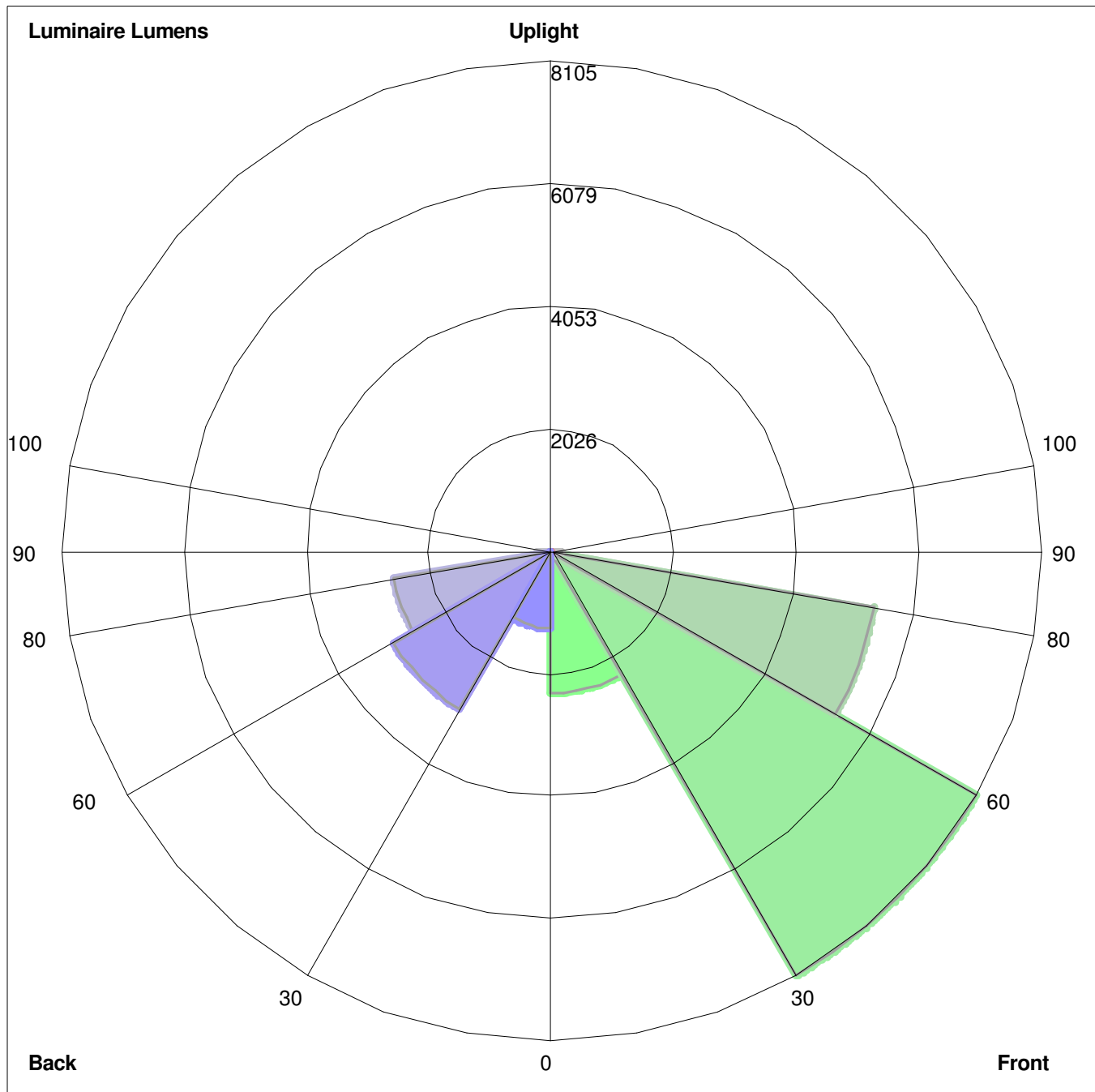


Maximum Candela = 16622.571 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 2340.0, Medium=8105.5, High=5416.3, Very High=165.3
Back: Low=1270.4, Medium=3012.3, High=2639.2, Very High=241.0
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4