



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L220-740-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-L220-740-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	22514
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	182
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16138.421
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	16138.421
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	3291.404 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L220-740-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2271.8	N.A.	10.1
FM - Front-Medium (30-60)	7869.4	N.A.	35.0
FH - Front-High (60-80)	5258.5	N.A.	23.4
FVH - Front-Very High (80-90)	160.5	N.A.	0.7
BL - Back-Low (0-30)	1233.4	N.A.	5.5
BM - Back-Medium (30-60)	2924.6	N.A.	13.0
BH - Back-High (60-80)	2562.3	N.A.	11.4
BVH - Back-Very High (80-90)	234.0	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	22514.5	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	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709
2.5	4937.685	4902.929	4894.819	4893.660	4869.331	4857.746	4821.831	4804.453	4789.392	4759.270
5.0	5189.087	5157.807	5141.587	5125.368	5083.660	5045.429	4981.709	4927.258	4902.929	4824.148
7.5	5280.612	5253.965	5241.222	5241.222	5228.478	5199.514	5124.209	5051.221	5023.417	4901.770
10.0	5226.161	5211.100	5198.356	5214.575	5235.429	5262.075	5238.904	5169.392	5145.063	4994.453
12.5	5183.295	5174.026	5158.965	5176.343	5198.356	5247.014	5279.453	5257.441	5247.014	5094.087
15.0	5199.514	5192.563	5169.392	5170.551	5182.136	5230.795	5291.039	5313.051	5321.161	5213.417
17.5	5282.929	5275.978	5243.539	5225.002	5211.100	5248.173	5315.368	5362.868	5382.563	5332.746
20.0	5387.197	5390.673	5350.124	5330.429	5297.990	5314.209	5369.819	5431.222	5450.917	5450.917
22.5	5497.258	5497.258	5465.978	5452.075	5433.539	5431.222	5462.502	5527.380	5542.441	5570.246
25.0	5582.990	5584.148	5566.770	5565.612	5584.148	5588.783	5592.258	5635.124	5652.502	5686.100
27.5	5654.819	5659.453	5632.807	5654.819	5722.014	5767.197	5760.246	5757.929	5776.466	5799.636
30.0	5734.758	5730.124	5701.161	5706.953	5825.124	5965.307	5960.673	5907.380	5910.856	5914.332
32.5	5741.710	5742.868	5738.234	5757.929	5888.844	6165.734	6181.954	6095.063	6071.893	6027.868
35.0	5696.527	5703.478	5732.441	5819.332	5986.161	6348.783	6457.685	6323.295	6271.161	6132.137
37.5	5633.966	5644.392	5689.575	5896.953	6236.405	6541.100	6763.539	6579.332	6478.539	6203.966
40.0	5563.295	5580.673	5658.295	6091.588	6893.295	7301.100	7179.454	6871.283	6725.307	6278.112
42.5	5462.502	5494.941	5591.100	5986.161	6906.039	8061.101	8205.918	7473.722	7188.722	6399.759
45.0	5659.453	5675.673	5630.490	5898.112	6727.625	7957.991	8882.503	8602.137	8274.271	6834.210
47.5	6236.405	6220.185	6144.880	6193.539	6666.222	7666.040	8865.125	9123.479	9043.540	7945.247
50.0	6215.551	6192.380	6337.198	6666.222	6951.222	7555.979	8432.991	8891.772	8867.442	8090.064
52.5	5662.929	5643.234	6002.380	6702.137	7441.283	7889.637	8255.735	8540.735	8550.003	7839.820
55.0	4371.160	4404.758	5077.868	6433.356	7852.564	8862.808	8746.955	8700.613	8701.772	8025.186
57.5	3272.867	3360.916	3963.355	5518.112	7866.466	10355.004	10090.858	9357.504	9255.552	8358.845
60.0	2640.306	2692.440	3028.416	3871.831	6816.832	11271.407	12614.151	110652.748	10331.833	9040.064
62.5	1908.110	1957.928	2139.818	2539.513	4741.892	10631.894	15065.616	12915.371	12198.236	10192.809
65.0	1528.110	1558.232	1672.927	1765.610	2651.891	8778.235	15197.689	15296.164	14477.079	11606.224
67.5	1338.110	1346.220	1499.147	1522.318	1628.903	4948.112	13529.395	16138.421	15944.945	12462.383
70.0	1061.220	1041.525	1262.805	1330.001	1259.330	2417.867	10255.370	14473.603	14934.701	12630.371
72.5	747.256	727.561	814.452	1130.732	992.866	1374.025	5676.831	11017.687	11864.578	11396.529
75.0	576.951	571.159	579.269	871.220	823.720	890.915	2483.903	6688.234	7558.296	7609.271
77.5	398.537	393.903	403.171	580.427	702.073	614.025	1067.013	2665.794	3545.123	4956.221
80.0	257.195	252.561	265.305	366.098	614.025	404.329	558.415	1021.830	1504.940	3291.404
82.5	140.183	135.549	151.768	216.646	407.805	224.756	293.110	435.610	544.512	1507.257
85.0	59.085	55.610	66.037	98.476	144.817	93.841	119.329	155.244	176.098	331.342
87.5	11.585	11.585	12.744	22.012	26.646	19.695	23.171	30.122	32.439	39.390
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	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709	4696.709
2.5	4717.563	4701.343	4686.282	4638.782	4604.026	4551.892	4503.233	4491.648	4444.148	4425.611
5.0	4732.624	4683.965	4644.575	4540.307	4436.038	4315.550	4197.380	4119.758	4012.014	3952.928
7.5	4761.587	4683.965	4617.929	4446.465	4259.941	4036.343	3797.684	3583.355	3322.684	3206.830
10.0	4804.453	4701.343	4602.868	4359.575	4066.465	3670.245	3205.672	2819.879	2551.099	2435.245
12.5	4860.063	4732.624	4598.233	4270.367	3832.440	3179.026	2604.391	2390.062	2343.720	2327.501
15.0	4933.051	4780.124	4612.136	4184.636	3534.696	2694.757	2381.952	2335.611	2320.550	2319.391
17.5	5021.099	4842.685	4641.099	4093.111	3168.599	2428.294	2348.355	2327.501	2318.233	2313.598
20.0	5118.417	4919.148	4683.965	3987.684	2809.452	2361.098	2332.135	2317.074	2291.586	2267.257
22.5	5231.953	5012.990	4734.941	3861.404	2552.257	2340.245	2308.964	2274.208	2239.452	2205.855
25.0	5354.758	5105.673	4784.758	3713.111	2435.245	2322.867	2267.257	2212.806	2172.257	2134.025
27.5	5489.148	5201.831	4821.831	3540.489	2393.538	2298.537	2211.647	2146.769	2105.062	2063.354

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CANDELA TABULATION - (Cont.)

30.0	5628.173	5304.941	4870.490	3362.074	2364.574	2259.147	2152.562	2076.098	2032.074	1998.476
32.5	5762.563	5417.319	4926.099	3197.562	2334.452	2208.172	2088.842	2003.111	1967.196	1941.708
35.0	5863.356	5490.307	4965.490	3040.001	2292.745	2147.928	2032.074	1931.281	1897.684	1884.940
37.5	5900.429	5497.258	4957.380	2909.086	2241.769	2084.208	1972.989	1872.196	1835.123	1811.952
40.0	5937.502	5515.795	4955.063	2818.721	2197.745	2023.964	1922.013	1815.428	1767.928	1737.806
42.5	5987.319	5555.185	4979.392	2751.525	2158.354	1971.830	1876.830	1766.769	1691.464	1656.708
45.0	6254.941	5837.868	5202.990	2779.330	2137.501	1928.964	1842.074	1722.745	1618.476	1582.562
47.5	6989.454	6469.271	5805.429	3179.026	2302.013	1918.537	1821.220	1710.001	1580.245	1550.123
50.0	7135.430	6604.820	5922.441	3433.904	2739.940	2137.501	1828.171	1727.379	1628.903	1697.257
52.5	6955.856	6431.039	5759.088	3136.160	2593.964	2428.294	1979.940	1744.757	1771.403	2047.135
55.0	7162.076	6673.173	6081.161	3277.501	2342.562	2137.501	2109.696	1778.354	1904.635	2385.428
57.5	7460.978	7028.844	6610.612	3920.489	2311.281	1918.537	1836.281	1770.245	1967.196	2545.306
60.0	7912.808	7449.393	7264.027	4842.685	2366.891	1809.635	1623.110	1586.037	1942.867	2424.818
62.5	8600.979	8035.613	7931.345	5745.185	2508.233	1720.427	1485.244	1470.183	1850.184	2158.354
65.0	9253.235	8400.552	8175.796	6114.758	2799.025	1645.123	1363.598	1369.391	1721.586	1860.610
67.5	9491.894	8552.320	8328.723	6220.185	3136.160	1546.647	1241.952	1250.061	1529.269	1620.793
70.0	9293.784	8517.564	8446.893	6111.283	3432.745	1455.123	1095.976	1106.403	1348.537	1421.525
72.5	8128.296	7542.076	7639.393	5683.783	3619.270	1360.122	945.366	946.525	1160.854	1202.561
75.0	5048.904	4737.258	4926.099	4644.575	3596.099	1290.610	778.537	782.012	966.220	909.452
77.5	3378.294	3015.672	3128.050	3664.453	3357.440	1218.781	618.659	612.866	747.256	488.903
80.0	2496.647	2183.842	2341.403	2811.769	2957.745	1144.635	422.866	440.244	501.647	245.610
82.5	998.659	922.195	1064.696	1584.879	2231.342	940.732	212.012	266.464	253.720	139.024
85.0	136.707	112.378	151.768	440.244	1130.732	561.890	84.573	92.683	76.463	59.085
87.5	24.329	18.537	20.854	35.915	253.720	159.878	17.378	17.378	10.427	5.793
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

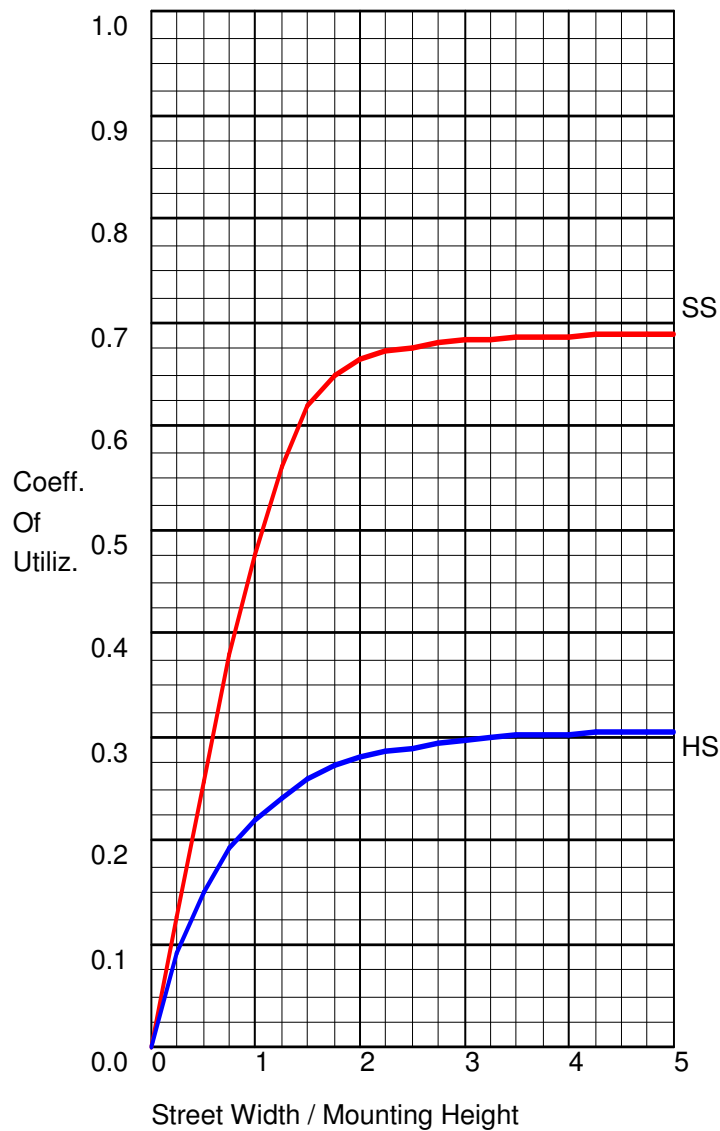
	<u>175.0</u>	<u>180.0</u>
0.0	4696.709	4696.709
2.5	4423.294	4412.868
5.0	3940.184	3926.282
7.5	3117.623	3106.038
10.0	2398.172	2393.538
12.5	2324.025	2321.708
15.0	2322.867	2324.025
17.5	2311.281	2308.964
20.0	2256.830	2253.355
22.5	2190.794	2185.001
25.0	2116.647	2109.696
27.5	2043.659	2042.501
30.0	1981.098	1977.623
32.5	1920.854	1917.379
35.0	1862.928	1858.293
37.5	1789.940	1786.464
40.0	1711.159	1711.159
42.5	1621.952	1620.793
45.0	1553.598	1548.964
47.5	1521.159	1523.476
50.0	1726.220	1748.232
52.5	2179.208	2209.330
55.0	2655.367	2704.025
57.5	2918.355	2983.233
60.0	2653.050	2662.318
62.5	2216.281	2188.476
65.0	1795.732	1754.025

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CANDELA TABULATION - (Cont.)

67.5	1487.562	1479.452
70.0	1261.647	1253.537
72.5	1045.000	1034.574
75.0	674.269	668.476
77.5	393.903	383.476
80.0	257.195	252.561
82.5	159.878	157.561
85.0	33.598	31.280
87.5	1.159	0.000
90.0	0.000	0.000

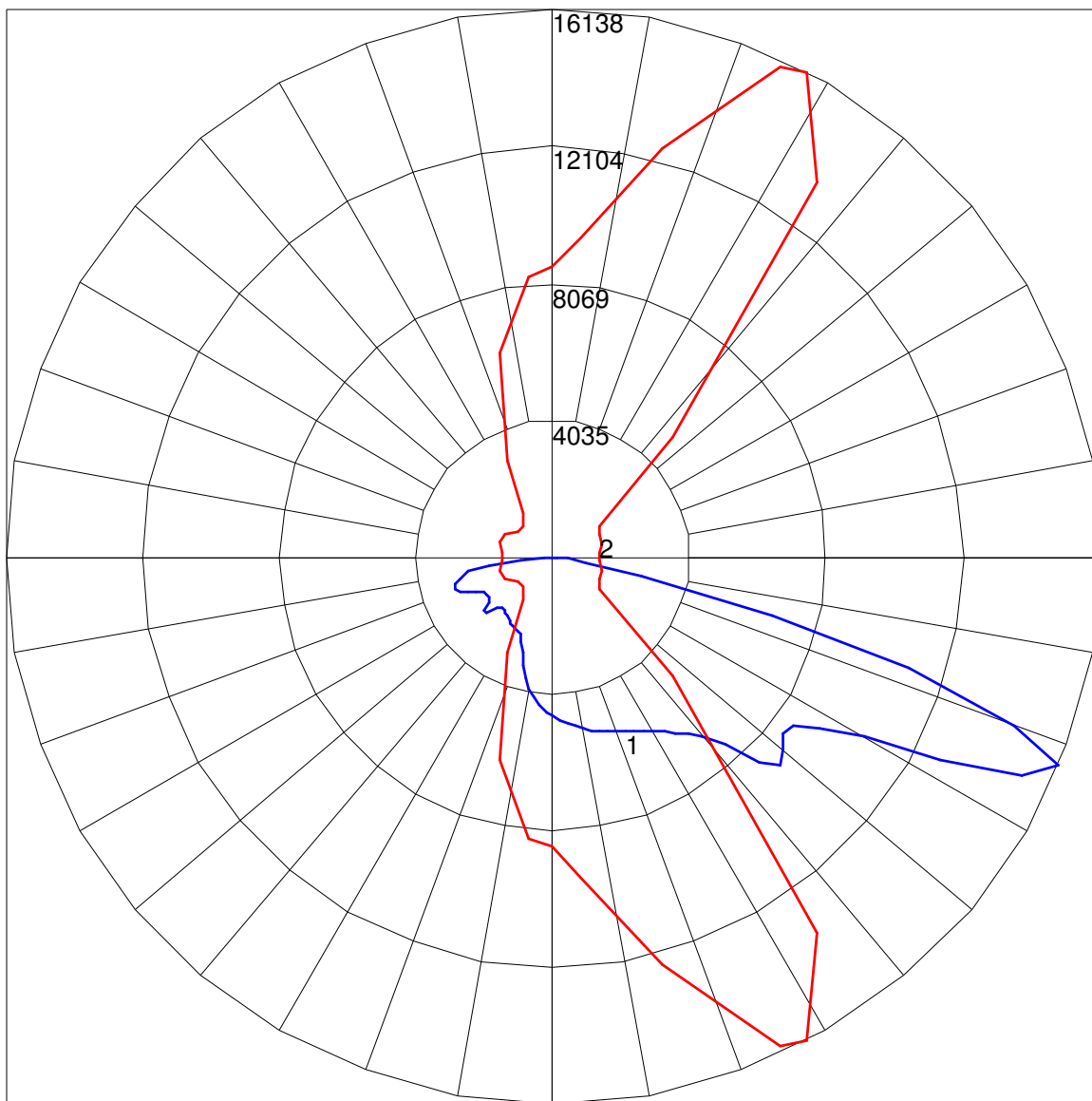
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

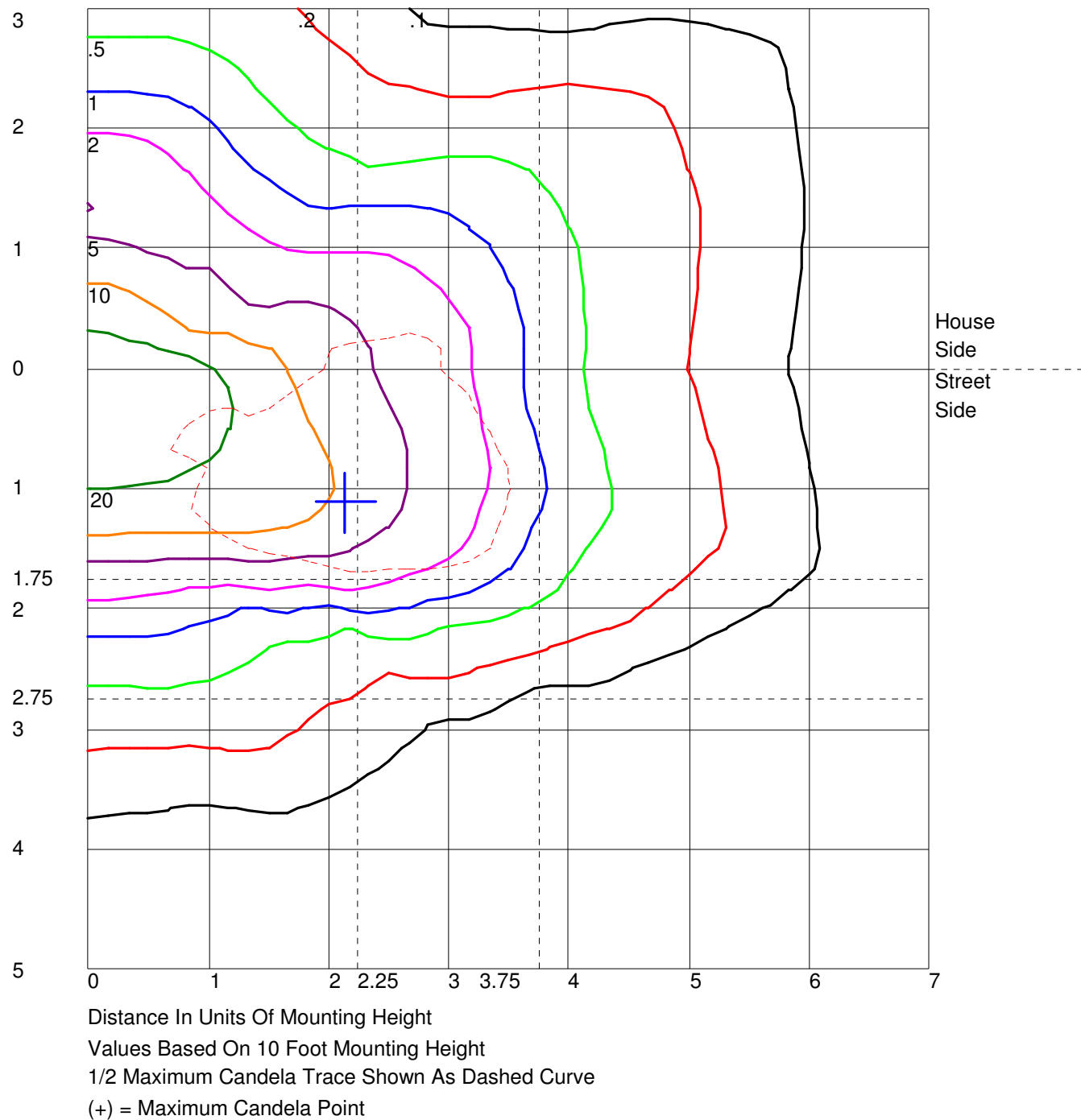
	Lumens	Percent Of Luminaire
Downward Street Side	15560.3	69.1
Downward House Side	6954.2	30.9
Downward Total	22514.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	22514.5	100.0

POLAR GRAPH

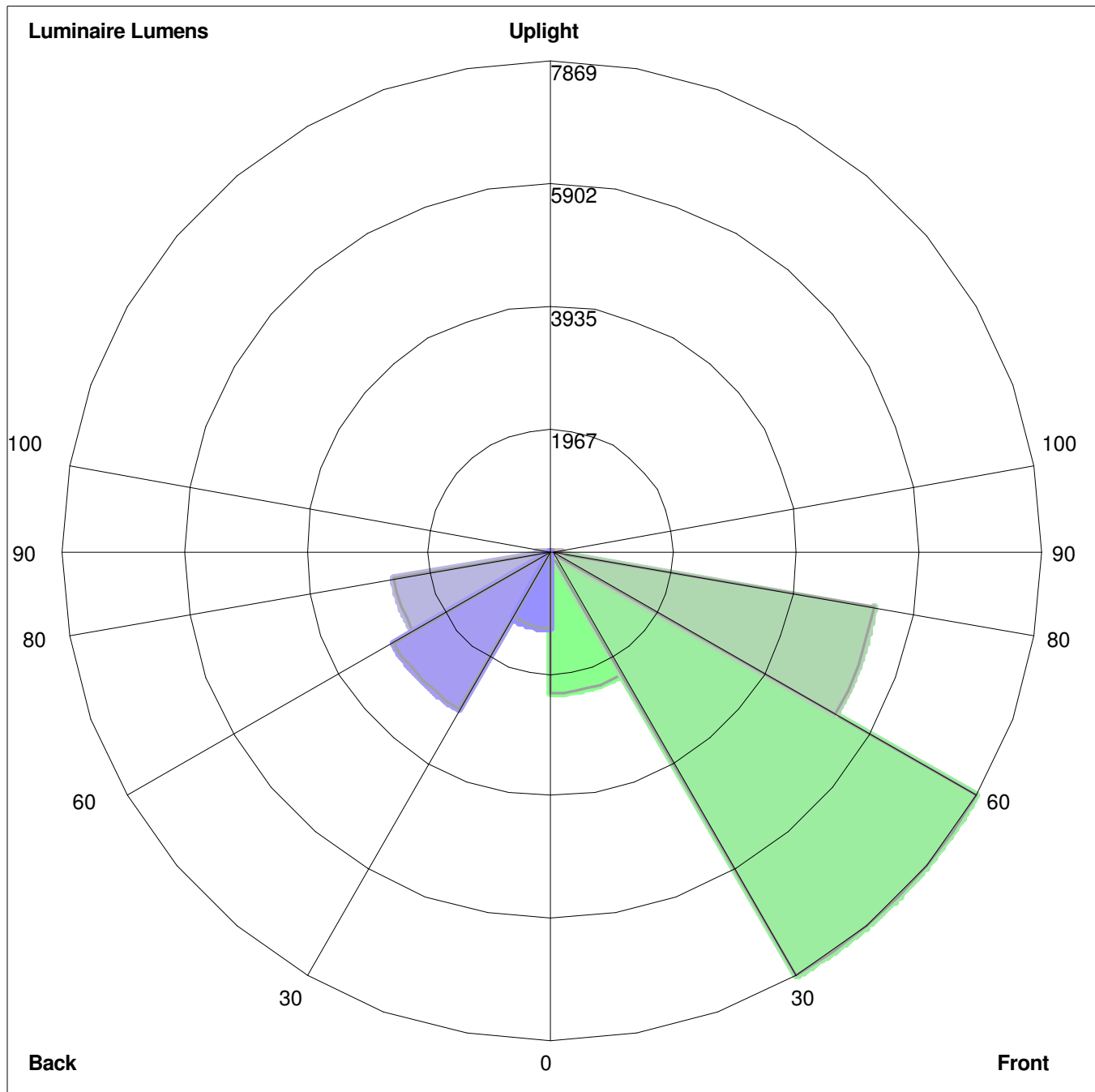


Maximum Candela = 16138.421 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2271.8, Medium=7869.4, High=5258.5, Very High=160.5
Back: Low=1233.4, Medium=2924.6, High=2562.3, Very High=234.0
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4