



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-730-T4-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011773  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 02/26/2020  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L280-730-T4-F-S-xxx-DIM-UNV  
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE IV  
[MORE]OPTICS, CLEAR LENS, (2) LED ARRAYS  
[MORE]AND (2) ELECTRONIC DRIVERS IN A BROWN HOUSING.  
[LAMPCAT] 3000K LEDS  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor, Area, Parking  
[ \_SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23512
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22398.636
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	22398.636
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1585.533 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-730-T4-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1796.1	N.A.	7.6
FM - Front-Medium (30-60)	7238.9	N.A.	30.8
FH - Front-High (60-80)	8425.5	N.A.	35.8
FVH - Front-Very High (80-90)	148.1	N.A.	0.6
BL - Back-Low (0-30)	1191.7	N.A.	5.1
BM - Back-Medium (30-60)	2840.5	N.A.	12.1
BH - Back-High (60-80)	1760.5	N.A.	7.5
BVH - Back-Very High (80-90)	111.0	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	23512.3	N.A.	100.0
BUG Rating	B3-U0-G4		

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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>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>42.5</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759
<b>2.5</b>	3969.344	3961.076	3972.099	3954.646	3916.982	3910.552	3893.098	3868.296	3819.609	3780.109
<b>5.0</b>	4295.453	4299.127	4305.557	4276.162	4226.556	4161.335	4144.799	4059.368	3944.541	3828.795
<b>7.5</b>	4478.257	4484.688	4489.281	4482.850	4432.326	4370.779	4348.732	4221.045	4058.449	3882.994
<b>10.0</b>	4518.676	4527.863	4532.456	4543.479	4529.700	4474.583	4457.129	4323.011	4157.660	3939.029
<b>12.5</b>	4508.572	4515.921	4514.083	4533.374	4541.642	4494.792	4479.176	4372.616	4232.987	3994.146
<b>15.0</b>	4482.850	4485.606	4476.420	4495.711	4517.758	4478.257	4461.722	4397.419	4290.859	4059.368
<b>17.5</b>	4451.617	4448.862	4438.757	4456.211	4469.071	4447.943	4439.675	4420.384	4345.977	4116.322
<b>20.0</b>	4385.477	4380.884	4390.070	4419.466	4421.303	4406.605	4405.687	4438.757	4346.895	4146.637
<b>22.5</b>	4294.534	4291.778	4354.244	4386.396	4368.942	4365.267	4376.291	4398.338	4335.872	4188.893
<b>25.0</b>	4228.394	4234.824	4347.814	4338.628	4322.092	4345.058	4364.349	4358.837	4351.488	4241.254
<b>27.5</b>	4223.800	4247.685	4336.790	4318.418	4312.906	4357.919	4380.884	4370.779	4389.152	4315.662
<b>30.0</b>	4301.883	4309.232	4341.383	4337.709	4366.186	4411.198	4429.571	4444.269	4464.478	4420.384
<b>32.5</b>	4418.547	4389.152	4404.768	4449.780	4488.362	4514.083	4531.537	4567.363	4581.142	4549.909
<b>35.0</b>	4573.793	4526.944	4527.863	4635.341	4651.876	4667.492	4670.248	4721.691	4721.691	4708.830
<b>37.5</b>	4829.169	4794.262	4766.703	4863.158	4888.879	4875.100	4858.565	4876.937	4871.425	4876.018
<b>40.0</b>	5158.952	5126.801	5088.219	5159.871	5203.965	5136.906	5113.940	5022.997	5030.346	5067.091
<b>42.5</b>	5503.434	5470.364	5454.747	5530.992	5596.214	5467.608	5409.735	5194.779	5214.988	5275.617
<b>45.0</b>	5912.218	5898.439	5891.090	5968.254	6038.987	5875.474	5788.205	5522.725	5447.398	5530.074
<b>47.5</b>	6400.922	6364.178	6383.469	6505.645	6461.551	6352.236	6268.642	5973.766	5770.751	5840.566
<b>50.0</b>	6910.755	6856.556	6864.824	7056.815	6945.662	6874.010	6810.626	6552.494	6215.362	6208.932
<b>52.5</b>	7591.450	7576.752	7395.785	7544.601	7471.111	7436.204	7424.262	7279.120	6768.369	6613.123
<b>55.0</b>	8743.396	8597.335	8214.272	8113.224	8059.026	8119.655	8203.249	8079.236	7405.889	7103.664
<b>57.5</b>	9914.632	9903.609	9411.230	8917.014	8699.302	8986.829	9194.436	8865.572	8081.991	7592.369
<b>60.0</b>	10493.361	10495.198	10526.431	9982.610	9467.266	10080.902	10444.674	9757.549	8695.627	7922.152
<b>62.5</b>	10978.390	1088.624	11391.768	11264.080	10539.292	11626.015	12204.744	10715.666	9038.272	7991.048
<b>65.0</b>	11635.202	11823.518	12799.089	12790.822	12076.138	14160.479	14845.768	11812.495	8780.140	7726.487
<b>67.5</b>	11056.473	11278.778	113637.786	14998.258	14301.028	17833.110	18423.780	12452.771	7796.302	7046.710
<b>70.0</b>	8954.677	8999.690	12377.444	16477.231	16497.441	121404.692	21565.450	11089.543	6044.499	5369.316
<b>72.0</b>	6524.936	6636.088	10037.727	15530.137	16492.848	22398.636	22022.003	7748.533	4274.324	3126.972
<b>72.5</b>	5735.844	5846.997	9254.147	15008.363	16210.832	22189.191	21797.860	6754.590	3839.819	2600.604
<b>75.0</b>	2250.611	2216.623	4055.694	9323.961	12088.080	17055.960	13565.216	2715.432	2287.356	1203.388
<b>77.5</b>	1461.519	1422.938	1300.762	2667.663	4541.642	5365.641	2731.048	1083.049	1255.749	771.638
<b>80.0</b>	949.850	1064.677	790.011	1210.737	1585.533	1316.378	934.233	617.311	727.545	507.995
<b>82.5</b>	483.192	581.484	464.820	607.206	664.160	519.937	502.483	353.668	381.226	285.690
<b>85.0</b>	203.933	271.911	190.154	230.573	254.457	187.398	187.398	146.979	158.002	117.583
<b>87.5</b>	50.524	73.489	29.396	29.396	44.094	27.559	22.965	24.803	24.803	18.372
<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>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759	3693.759
<b>2.5</b>	3732.340	3698.352	3673.549	3626.699	3570.664	3522.896	3471.453	3442.057	3398.882	3385.103
<b>5.0</b>	3706.619	3638.642	3578.931	3467.779	3358.463	3269.358	3185.763	3138.914	3090.227	3072.774
<b>7.5</b>	3694.677	3597.304	3503.605	3335.498	3186.682	3074.611	2992.854	2951.516	2923.958	2920.283
<b>10.0</b>	3686.410	3557.803	3431.953	3211.485	3040.622	2936.818	2877.108	2871.596	2884.457	2911.097
<b>12.5</b>	3682.735	3520.140	3360.301	3091.146	2916.609	2839.445	2824.747	2861.492	2927.632	3002.040
<b>15.0</b>	3691.003	3490.744	3295.997	2980.912	2810.968	2765.037	2797.188	2879.864	2991.935	3101.251
<b>17.5</b>	3696.514	3463.186	3236.287	2881.701	2722.780	2706.245	2761.362	2871.596	2984.586	3093.902
<b>20.0</b>	3701.107	3436.546	3183.008	2794.433	2650.210	2653.884	2708.083	2795.351	2889.050	3001.121
<b>22.5</b>	3714.887	3417.255	3132.484	2713.594	2590.500	2605.198	2630.000	2681.443	2763.200	2871.596
<b>25.0</b>	3741.527	3410.825	3089.309	2647.454	2543.650	2554.674	2532.627	2564.778	2623.570	2731.048

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

27.5	3791.132	3420.011	3059.913	2598.767	2508.743	2491.289	2441.684	2451.788	2504.150	2596.011
30.0	3865.540	3451.244	3049.808	2563.860	2482.103	2421.474	2360.845	2356.252	2392.997	2478.428
32.5	3968.425	3504.523	3054.401	2539.057	2462.812	2357.171	2287.356	2266.228	2299.298	2410.451
35.0	4098.869	3578.013	3074.611	2524.359	2443.521	2302.973	2219.378	2179.878	2247.856	2374.625
37.5	4262.382	3674.468	3115.030	2528.034	2410.451	2252.449	2142.215	2126.598	2214.785	2353.496
40.0	4477.339	3817.772	3186.682	2555.592	2371.869	2208.355	2073.318	2096.284	2182.634	2348.903
42.5	4743.738	4020.786	3298.753	2589.581	2345.229	2177.122	2035.655	2063.214	2159.668	2346.148
45.0	5060.660	4274.324	3465.023	2618.977	2334.206	2147.726	2023.713	2029.225	2139.459	2326.857
47.5	5436.375	4605.026	3680.898	2645.617	2330.531	2119.249	2002.585	1996.155	2110.063	2214.785
50.0	5867.206	5007.381	3936.273	2691.547	2334.206	2087.098	1969.515	1960.328	1989.724	2163.343
52.5	6331.108	5418.921	4221.963	2786.165	2353.496	2072.400	1933.689	1917.153	1882.246	2137.622
55.0	6874.010	6063.790	4743.738	2889.969	2376.462	2102.714	1938.282	1839.071	1838.152	2083.423
57.5	7716.382	7025.582	5232.442	2982.749	2471.079	2223.053	2046.678	1874.897	1879.490	2026.469
60.0	8639.592	7541.845	5574.167	3160.961	2580.395	2296.542	2139.459	1968.596	2027.387	2059.539
62.5	8635.917	7561.136	5928.753	3291.404	2579.476	2276.333	2104.551	1939.200	2142.215	2037.492
65.0	8041.572	7246.969	5754.216	3199.543	2563.860	2275.414	2020.957	1757.314	2020.957	1876.734
67.5	5979.277	5225.093	3913.308	2406.776	2347.066	2253.367	1937.363	1581.858	1797.733	1714.139
70.0	2878.027	2290.112	1662.697	1320.052	1670.046	2066.888	1893.269	1422.938	1589.207	1634.219
72.0	1457.845	1148.271	963.629	864.418	1066.514	1741.698	1868.467	1276.877	1370.576	1496.427
72.5	1357.716	1034.363	884.628	808.383	955.362	1694.848	1851.013	1238.296	1309.948	1451.415
75.0	809.301	680.695	608.124	586.996	641.195	1117.038	1592.882	1049.060	1017.828	1187.772
77.5	541.065	460.227	428.994	417.971	460.227	655.892	1204.307	898.407	801.953	913.105
80.0	360.098	303.144	286.608	287.527	318.760	418.889	768.882	694.474	619.148	699.067
82.5	203.933	164.432	159.839	170.863	193.828	246.189	414.296	507.077	452.878	522.693
85.0	83.594	63.385	61.547	68.896	85.431	111.153	195.665	243.433	219.549	241.596
87.5	12.861	9.186	8.268	11.023	17.454	24.803	51.443	56.036	51.443	47.768
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

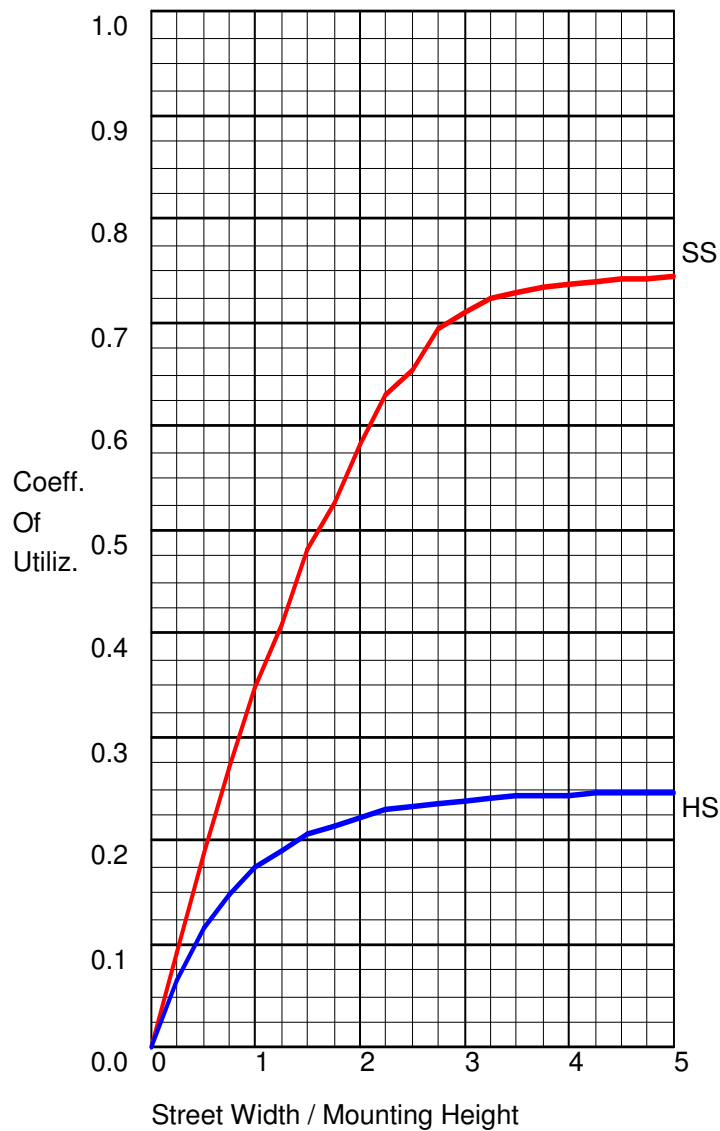
**Vert. Horizontal Angles**  
**Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	3693.759	3693.759
2.5	3375.917	3386.940
5.0	3062.669	3070.018
7.5	2917.527	2919.364
10.0	2926.713	2924.876
12.5	3042.459	3040.622
15.0	3158.205	3159.123
17.5	3153.612	3160.961
20.0	3070.018	3081.960
22.5	2945.086	2961.621
25.0	2810.968	2824.747
27.5	2676.850	2690.629
30.0	2569.371	2581.313
32.5	2516.092	2531.708
35.0	2484.859	2501.394
37.5	2484.859	2495.882
40.0	2499.557	2502.312
42.5	2496.801	2500.475
45.0	2436.172	2434.335
47.5	2365.438	2376.462
50.0	2385.648	2397.590
52.5	2392.997	2399.427
55.0	2346.148	2355.334
57.5	2281.844	2294.705
60.0	2212.948	2224.890

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-730-T4-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	2092.609	2108.226
<b>65.0</b>	1922.665	1960.328
<b>67.5</b>	1743.535	1805.082
<b>70.0</b>	1553.381	1636.975
<b>72.0</b>	1408.240	1494.590
<b>72.5</b>	1369.658	1453.252
<b>75.0</b>	1140.922	1210.737
<b>77.5</b>	949.850	1042.630
<b>80.0</b>	879.116	957.199
<b>82.5</b>	488.704	527.286
<b>85.0</b>	172.700	165.351
<b>87.5</b>	22.965	5.512
<b>90.0</b>	0.000	0.000

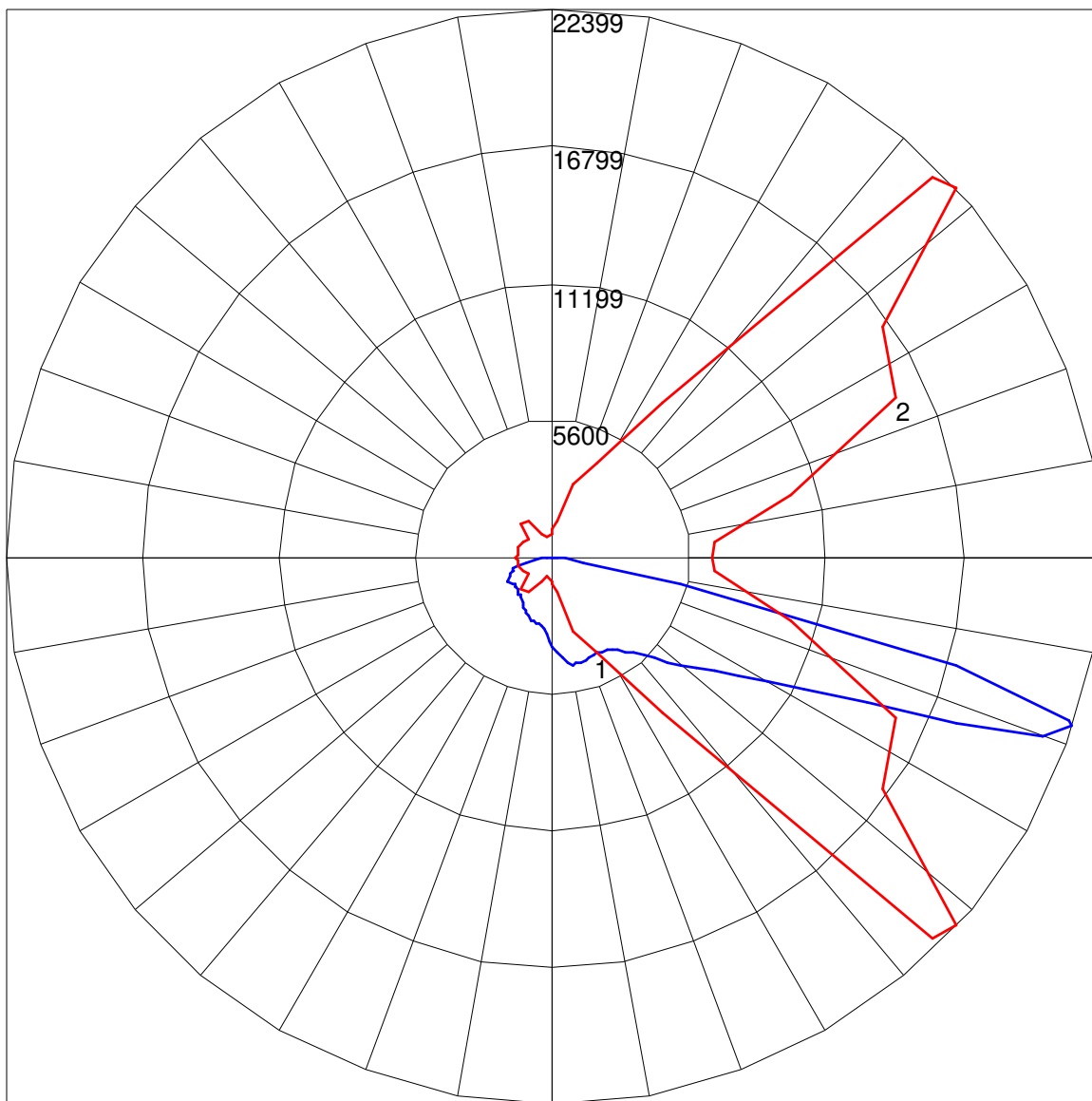
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

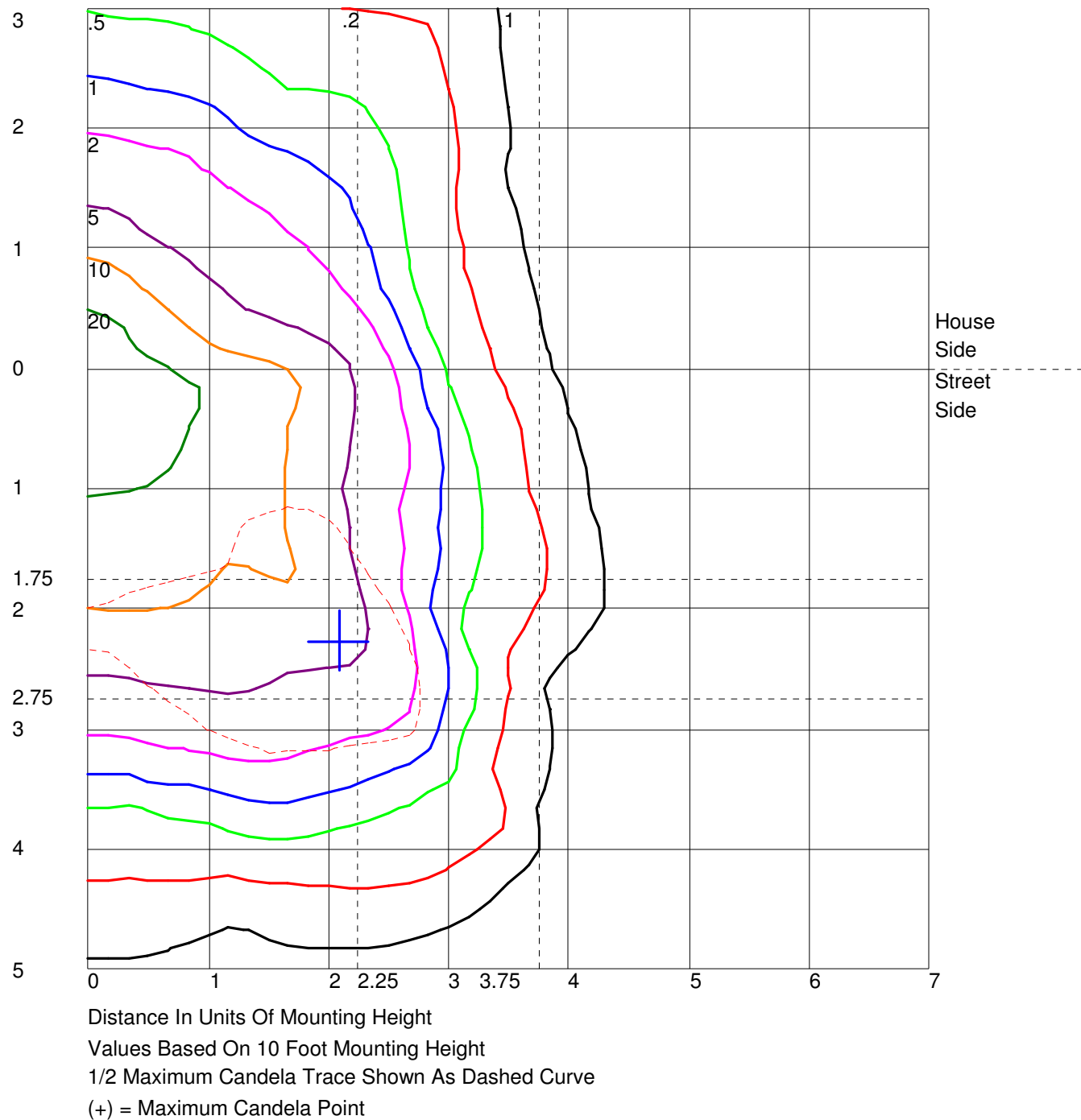
	Lumens	Percent Of Luminaire
Downward Street Side	17608.7	74.9
Downward House Side	5903.6	25.1
Downward Total	23512.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23512.3	100.0

POLAR GRAPH



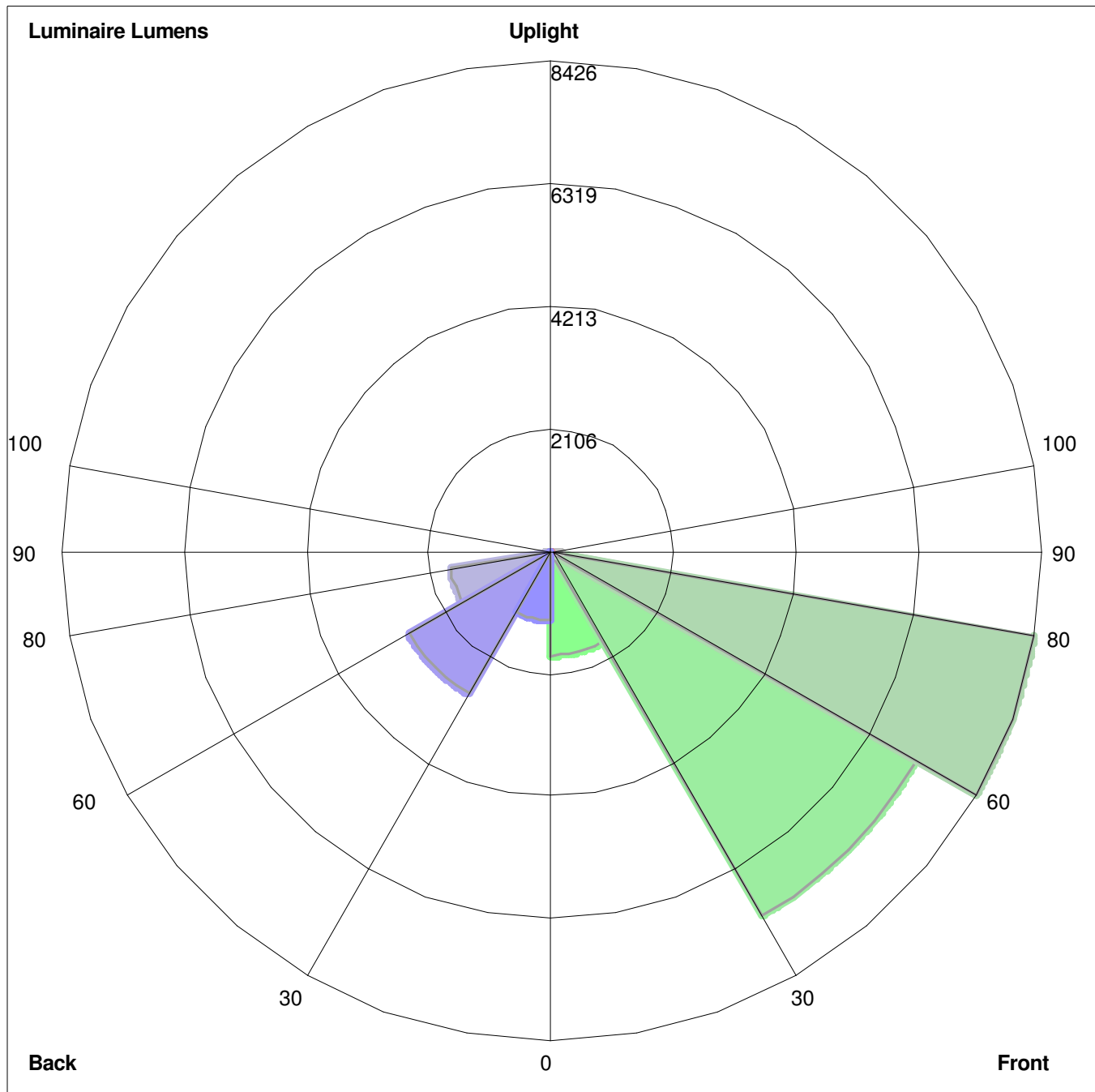
Maximum Candela = 22398.636 Located At Horizontal Angle = 42.5, Vertical Angle = 72  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1796.1, Medium=7238.9, High=8425.5, Very High=148.1  
Back: Low=1191.7, Medium=2840.5, High=1760.5, Very High=111.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4