



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-740-T5-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011774
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-740-T5-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE V OPTICS, CLEAR LENS, (2) LED MODULES
[MORE] AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor, Area, Parking
[_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	30241
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14457.391
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	14457.391
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	559.331 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-740-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1509.3	N.A.	5.0
FM - Front-Medium (30-60)	6939.0	N.A.	22.9
FH - Front-High (60-80)	6596.9	N.A.	21.8
FVH - Front-Very High (80-90)	75.1	N.A.	0.2
BL - Back-Low (0-30)	1509.3	N.A.	5.0
BM - Back-Medium (30-60)	6939.0	N.A.	22.9
BH - Back-High (60-80)	6596.9	N.A.	21.8
BVH - Back-Very High (80-90)	75.1	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	30240.6	N.A.	100.0
BUG Rating	B5-U0-G3		

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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	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194
2.5	3172.454	3172.454	3174.639	3174.639	3173.547	3172.454	3172.454	3175.732	3176.824	3182.286
5.0	3194.303	3195.396	3197.581	3194.303	3192.118	3193.211	3191.026	3195.396	3197.581	3204.135
7.5	3233.631	3235.816	3235.816	3234.724	3232.539	3233.631	3231.446	3240.186	3242.371	3248.925
10.0	3280.606	3281.699	3281.699	3281.699	3280.606	3283.884	3284.976	3293.716	3295.900	3303.548
12.5	3334.136	3335.228	3334.136	3331.951	3333.044	3337.413	3340.691	3349.430	3353.800	3360.355
15.0	3396.405	3396.405	3389.851	3389.851	3392.035	3394.220	3398.590	3405.145	3409.515	3417.162
17.5	3472.876	3467.414	3457.582	3456.490	3456.490	3456.490	3457.582	3464.137	3468.506	3473.969
20.0	3555.902	3546.070	3531.868	3531.868	3529.683	3527.498	3526.406	3530.776	3530.776	3537.330
22.5	3645.482	3632.373	3621.449	3615.986	3611.617	3610.524	3601.785	3606.154	3603.969	3607.247
25.0	3741.617	3730.693	3720.861	3715.399	3708.844	3702.289	3692.457	3693.550	3689.180	3690.272
27.5	3859.601	3845.399	3835.567	3830.105	3818.088	3814.811	3802.794	3801.702	3792.962	3799.517
30.0	3998.341	3983.047	3974.308	3966.660	3956.829	3950.274	3936.072	3936.072	3925.148	3931.702
32.5	4148.006	4133.804	4125.065	4127.250	4113.048	4119.603	4106.493	4104.308	4090.107	4092.291
35.0	4342.461	4326.074	4312.965	4319.520	4315.150	4319.520	4310.780	4312.965	4297.671	4309.688
37.5	4574.059	4558.765	4548.933	4563.134	4553.302	4574.059	4564.227	4572.966	4559.857	4577.336
40.0	4836.245	4819.858	4810.026	4830.783	4843.892	4869.018	4874.481	4889.775	4881.035	4902.884
42.5	5088.599	5080.952	5079.860	5117.003	5149.776	5197.844	5227.340	5251.373	5252.466	5280.869
45.0	5350.786	5346.416	5360.618	5407.593	5458.938	5545.241	5578.014	5627.174	5642.468	5666.502
47.5	5627.174	5633.728	5656.670	5716.754	5792.133	5891.545	5935.243	6002.974	6024.823	6058.689
50.0	5973.478	5985.495	6010.621	6086.000	6188.690	6323.060	6376.590	6447.599	6458.523	6492.389
52.5	6401.716	6413.733	6445.414	6559.028	6701.045	6881.298	6953.400	6989.450	6998.190	7028.778
55.0	6910.794	6928.273	6988.358	7158.779	7378.360	7611.050	7724.664	7754.160	7744.328	7790.211
57.5	7441.722	7475.587	7591.386	7853.573	8208.617	8539.627	8717.695	8703.493	8722.065	8745.006
60.0	7973.741	8014.162	8229.373	8635.762	9145.933	9625.515	9927.029	9930.307	9947.786	9940.139
62.5	8217.356	8279.625	8645.594	9166.689	9890.979	10654.596	11206.280	11378.886	11420.399	11400.735
65.0	7801.135	7906.010	8424.920	9135.008	10110.560	11159.305	12134.857	12688.725	12996.794	13128.980
67.0	6839.786	6962.139	7526.932	8438.030	9540.305	10819.555	12191.664	13234.947	13866.379	14301.171
67.5	6484.742	6611.465	7171.888	8134.330	9251.900	10592.327	12059.478	13251.333	13972.346	14457.391
70.0	3977.585	4097.754	4617.757	5575.829	6692.306	8253.407	10124.762	11986.284	13236.039	13812.849
72.5	1749.001	1807.993	2087.659	2503.879	3129.849	4342.461	6040.117	8048.028	9456.187	10172.829
75.0	782.189	798.576	864.122	956.980	1104.460	1450.764	2087.659	3298.085	4411.285	5087.507
77.5	444.624	447.902	497.062	535.297	589.919	654.373	738.491	926.392	1251.940	1476.983
80.0	286.220	284.035	300.422	336.472	380.170	411.851	441.347	479.582	530.927	559.331
82.5	171.514	169.329	174.791	190.085	225.043	242.522	255.632	269.833	284.035	282.943
85.0	57.899	63.362	69.916	78.656	101.597	105.967	111.429	113.614	105.967	100.505
87.5	6.555	7.647	10.924	12.017	16.387	17.479	18.572	19.664	18.572	16.387
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

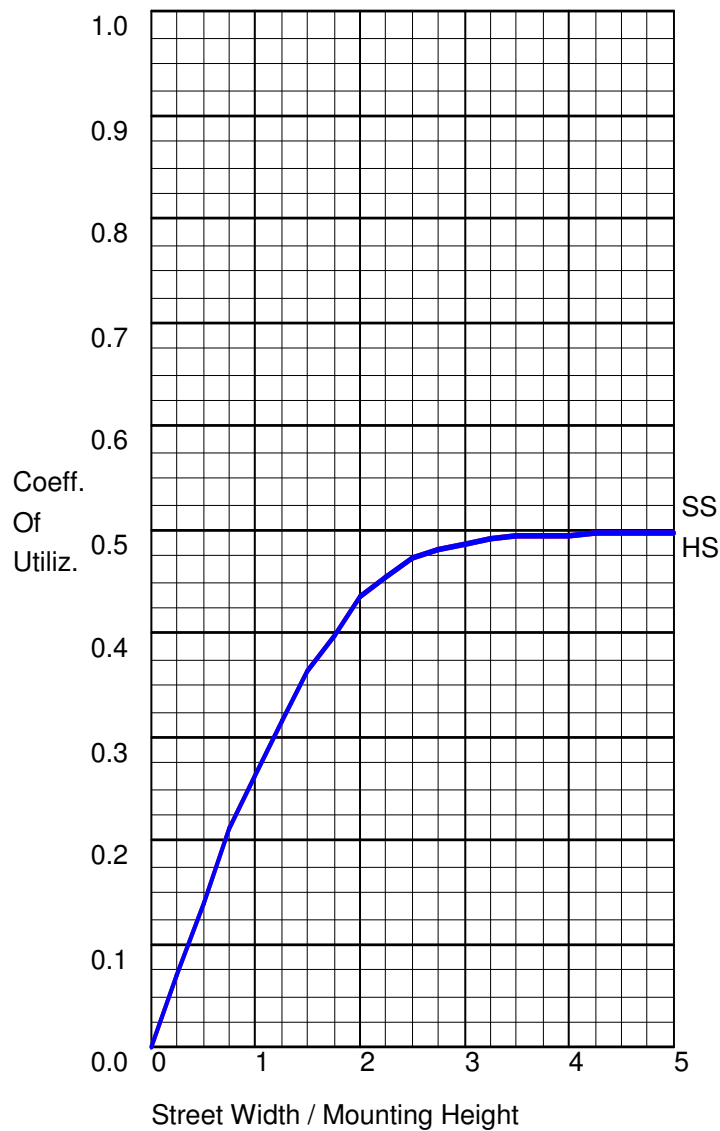
Vert. Angles	Horizontal Angles								
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194	3181.194
2.5	3183.379	3185.564	3188.841	3192.118	3193.211	3195.396	3198.673	3197.581	3203.043
5.0	3206.320	3207.413	3215.060	3219.429	3220.522	3223.799	3228.169	3227.077	3230.354
7.5	3253.295	3256.573	3262.035	3268.589	3272.959	3276.237	3282.791	3280.606	3282.791
10.0	3309.010	3313.380	3318.842	3325.396	3331.951	3334.136	3342.876	3342.876	3341.783
12.5	3365.817	3372.372	3376.741	3382.203	3388.758	3394.220	3400.775	3404.052	3400.775
15.0	3421.531	3426.994	3432.456	3437.918	3445.565	3452.120	3460.859	3467.414	3461.952
17.5	3477.246	3482.708	3491.448	3498.002	3506.742	3514.389	3526.406	3535.146	3528.591
20.0	3540.608	3544.978	3552.625	3564.641	3575.566	3585.398	3599.600	3611.617	3608.339
22.5	3612.709	3617.079	3625.818	3635.650	3650.944	3665.146	3681.533	3697.920	3697.920
25.0	3696.827	3700.104	3711.029	3721.953	3740.525	3755.819	3778.760	3794.055	3795.147

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CANDELA TABULATION - (Cont.)

27.5	3799.517	3807.164	3816.996	3830.105	3849.769	3865.063	3883.635	3896.744	3905.484
30.0	3932.795	3938.257	3950.274	3961.198	3985.232	3999.434	4018.005	4023.468	4037.669
32.5	4099.939	4106.493	4122.880	4132.712	4153.468	4161.115	4176.410	4177.502	4192.796
35.0	4310.780	4321.704	4335.906	4341.368	4358.848	4362.125	4377.419	4374.142	4388.343
37.5	4575.151	4586.076	4598.093	4602.462	4617.757	4612.294	4615.572	4614.479	4624.311
40.0	4903.977	4897.422	4919.271	4915.993	4921.456	4893.052	4879.943	4875.573	4882.128
42.5	5271.037	5265.575	5278.685	5261.205	5231.709	5181.457	5151.961	5144.314	5150.869
45.0	5653.392	5639.191	5634.821	5597.678	5540.871	5473.139	5434.904	5426.164	5428.349
47.5	6042.302	6017.176	5994.235	5953.814	5875.158	5794.318	5748.435	5736.418	5733.141
50.0	6477.094	6457.431	6432.304	6402.808	6289.194	6185.412	6126.420	6108.941	6107.849
52.5	7039.703	7063.736	7032.056	6963.232	6813.567	6664.995	6584.154	6552.473	6537.179
55.0	7857.942	7878.699	7832.816	7690.799	7490.882	7254.914	7121.636	7067.014	7057.182
57.5	8864.082	8884.839	8831.309	8623.745	8329.878	7974.834	7781.471	7682.059	7664.580
60.0	10058.123	10088.711	10031.904	9788.289	9375.346	8864.082	8521.055	8348.449	8253.407
62.5	11520.904	11554.769	11487.038	11070.817	10414.259	9704.171	9160.134	8840.049	8707.863
65.0	13287.384	13171.585	12787.045	11883.595	10821.740	9846.189	9090.218	8527.610	8410.719
67.0	14317.558	13880.581	12930.155	11555.862	10201.233	9049.798	8149.625	7466.848	7386.007
67.5	14436.634	13894.782	12803.432	11303.508	9894.256	8711.140	7774.917	7077.938	7010.207
70.0	13439.234	12425.447	10770.395	8876.099	7311.721	5931.965	4949.859	4355.570	4294.393
72.5	9803.583	8465.341	6522.977	4551.117	3252.203	2524.636	2167.407	1956.565	1936.901
75.0	4569.689	3283.884	2111.692	1515.218	1242.108	1060.762	973.367	934.039	918.745
77.5	1225.721	929.669	800.761	714.458	655.466	605.213	559.331	530.927	526.558
80.0	535.297	498.154	477.398	447.902	423.868	388.910	335.380	326.640	327.733
82.5	291.682	284.035	280.758	268.741	250.169	217.396	193.362	193.362	197.732
85.0	101.597	115.799	112.522	109.244	103.782	84.118	76.471	77.563	75.379
87.5	17.479	18.572	15.294	15.294	15.294	13.109	10.924	10.924	9.832
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

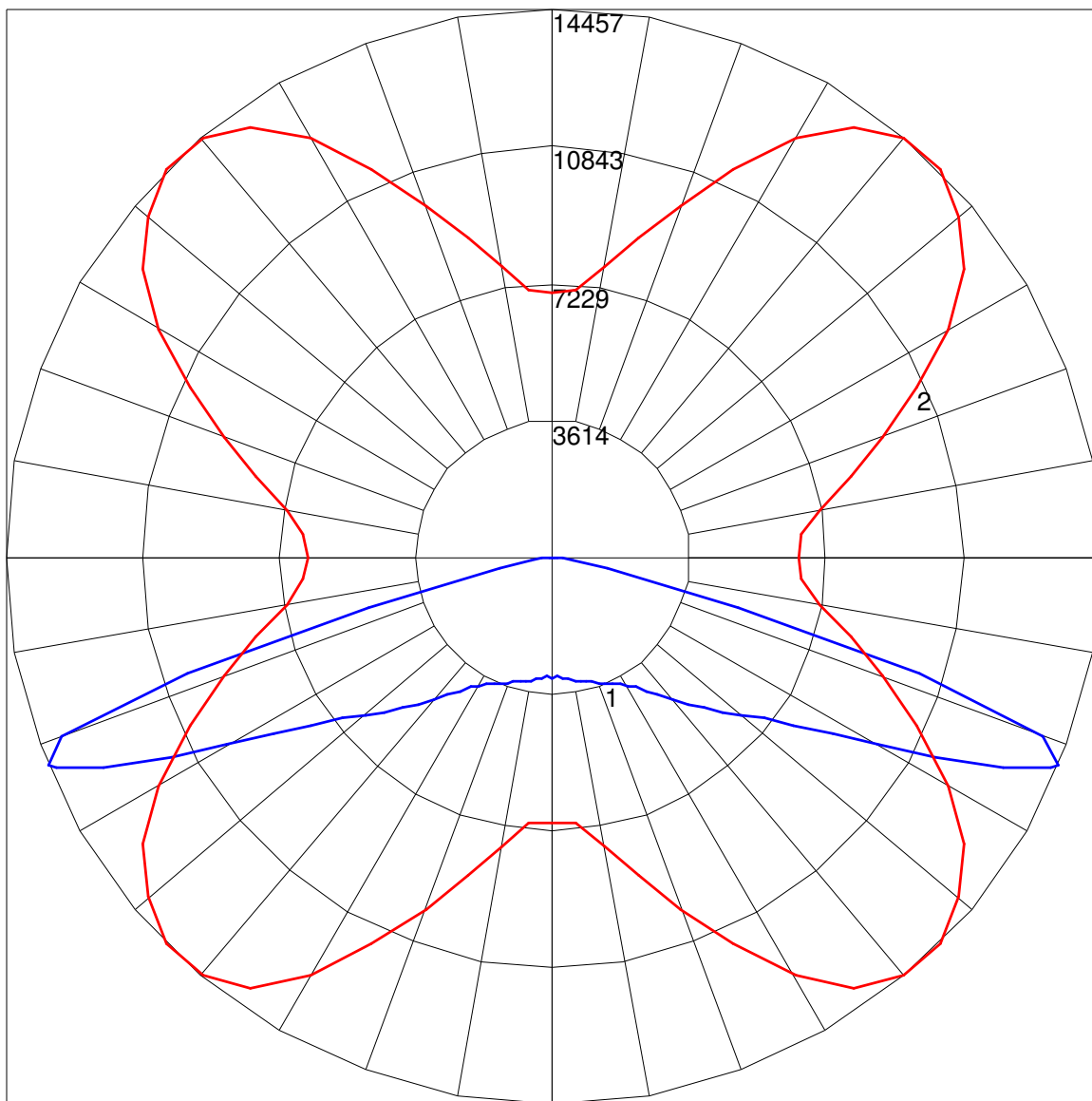
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

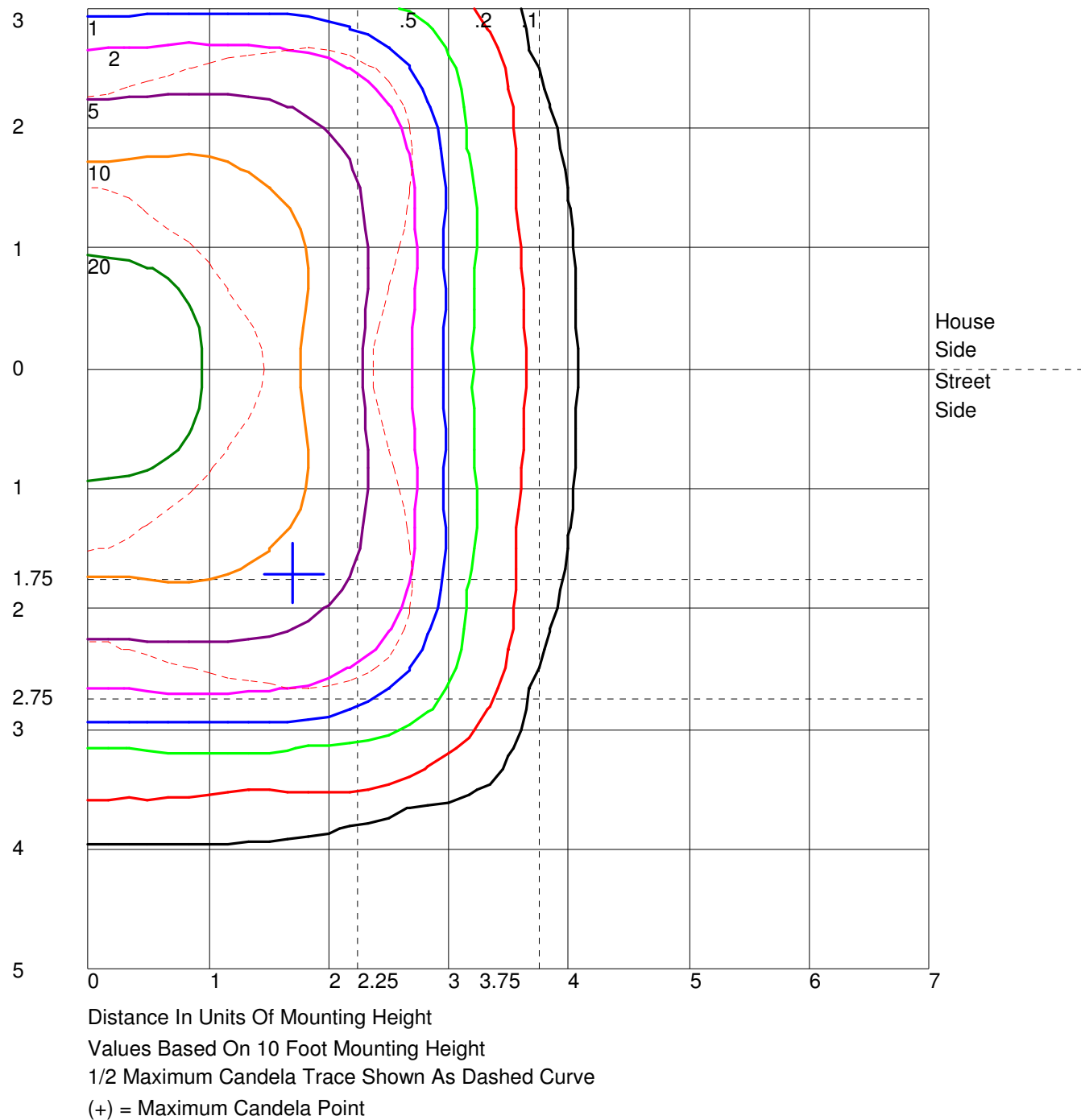
	Lumens	Percent Of Luminaire
Downward Street Side	15120.3	50.0
Downward House Side	15120.3	50.0
Downward Total	30240.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30240.6	100.0

POLAR GRAPH

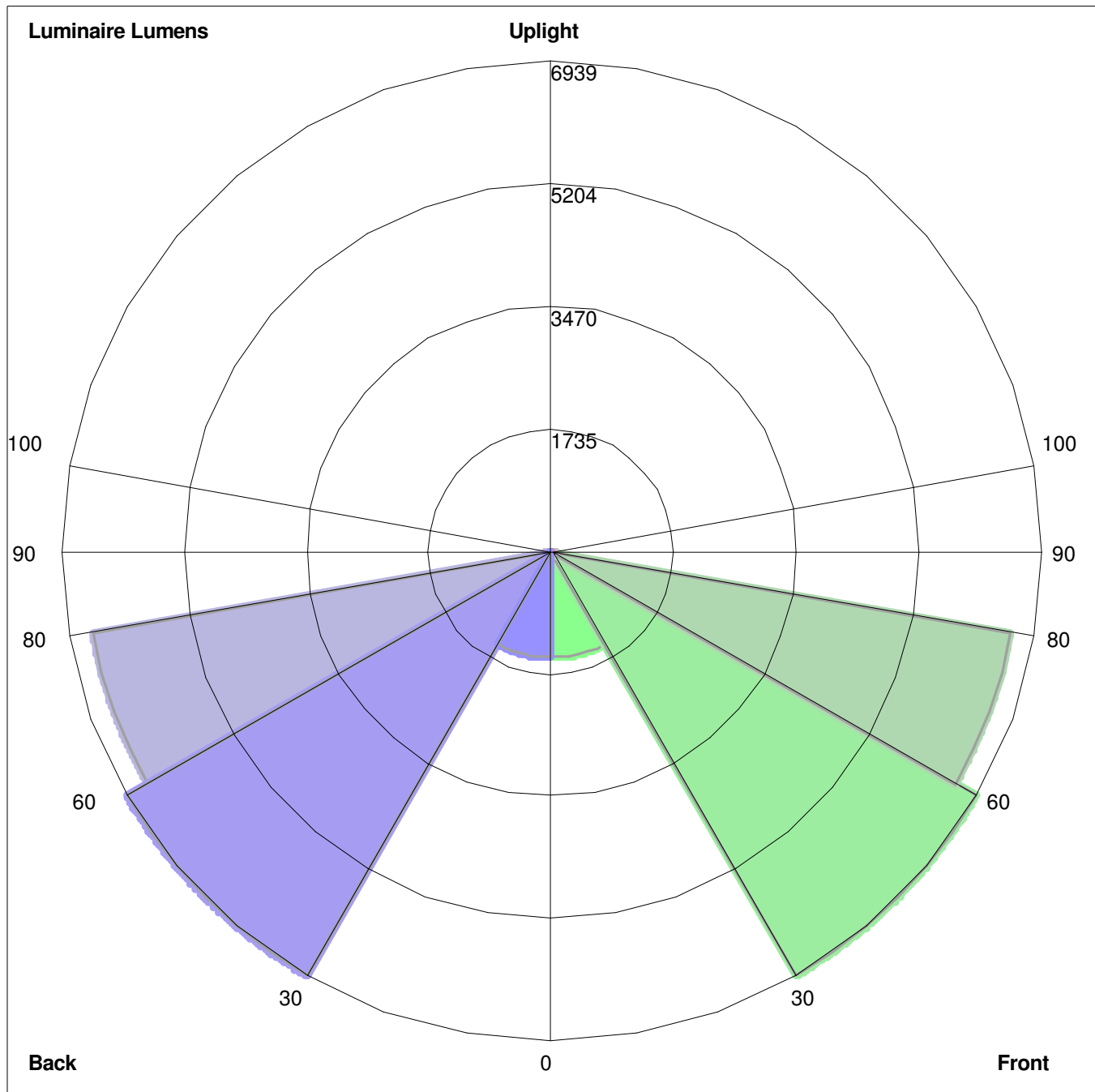


Maximum Candela = 14457.391 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1509.3, Medium= 6939.0, High=6596.9, Very High=75.1
Back: Low=1509.3, Medium= 6939.0, High=6596.9, Very High=75.1
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3