



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-730-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-L280-730-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	27519
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13156.223
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	13156.223
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	508.991 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-730-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1373.4	N.A.	5.0
FM - Front-Medium (30-60)	6314.5	N.A.	22.9
FH - Front-High (60-80)	6003.2	N.A.	21.8
FVH - Front-Very High (80-90)	68.4	N.A.	0.2
BL - Back-Low (0-30)	1373.4	N.A.	5.0
BM - Back-Medium (30-60)	6314.5	N.A.	22.9
BH - Back-High (60-80)	6003.2	N.A.	21.8
BVH - Back-Very High (80-90)	68.4	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	27519.0	N.A.	100.0
BUG Rating	B5-U0-G3		

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CANDELA TABULATION

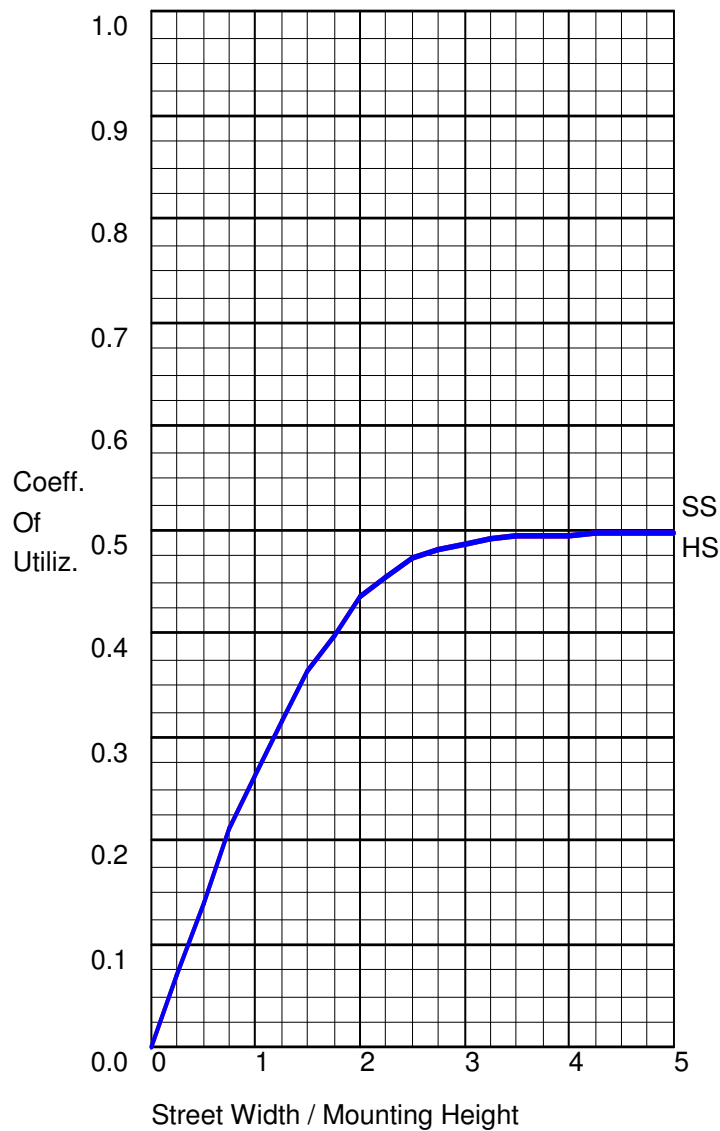
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886
2.5	2886.933	2886.933	2888.921	2888.921	2887.927	2886.933	2886.933	2889.915	2890.909	2895.880
5.0	2906.815	2907.810	2909.798	2906.815	2904.827	2905.821	2903.833	2907.810	2909.798	2915.763
7.5	2942.604	2944.592	2944.592	2943.598	2941.610	2942.604	2940.616	2948.569	2950.557	2956.522
10.0	2985.351	2986.345	2986.345	2986.345	2985.351	2988.334	2989.328	2997.281	2999.269	3006.228
12.5	3034.063	3035.057	3034.063	3032.075	3033.069	3037.046	3040.028	3047.981	3051.957	3057.922
15.0	3090.728	3090.728	3084.763	3084.763	3086.752	3088.740	3092.716	3098.681	3102.658	3109.617
17.5	3160.317	3155.346	3146.399	3145.405	3145.405	3145.405	3146.399	3152.364	3156.340	3161.311
20.0	3235.870	3226.923	3213.999	3213.999	3212.011	3210.023	3209.029	3213.005	3213.005	3218.970
22.5	3317.388	3305.459	3295.517	3290.547	3286.570	3285.576	3277.623	3281.600	3279.612	3282.594
25.0	3404.871	3394.930	3385.983	3381.012	3375.047	3369.083	3360.135	3361.130	3357.153	3358.147
27.5	3512.236	3499.313	3490.366	3485.395	3474.460	3471.477	3460.542	3459.548	3451.595	3457.560
30.0	3638.490	3624.572	3616.619	3609.660	3600.713	3594.748	3581.825	3581.825	3571.884	3577.848
32.5	3774.685	3761.761	3753.808	3755.796	3742.873	3748.838	3736.908	3734.920	3721.996	3723.984
35.0	3951.639	3936.727	3924.797	3930.762	3926.786	3930.762	3922.809	3924.797	3910.880	3921.815
37.5	4162.393	4148.475	4139.528	4152.451	4143.504	4162.393	4153.446	4161.399	4149.469	4165.375
40.0	4400.982	4386.070	4377.123	4396.012	4407.941	4430.806	4435.776	4449.694	4441.741	4461.624
42.5	4630.625	4623.666	4622.672	4656.472	4686.295	4730.037	4756.878	4778.749	4779.743	4805.590
45.0	4869.214	4865.238	4878.161	4920.908	4967.632	5046.168	5075.992	5120.727	5134.645	5156.516
47.5	5120.727	5126.692	5147.568	5202.245	5270.840	5361.305	5401.070	5462.705	5482.588	5513.406
50.0	5435.864	5446.799	5469.664	5538.259	5631.706	5753.983	5802.695	5867.313	5877.255	5908.073
52.5	5825.560	5836.496	5865.325	5968.714	6097.950	6261.980	6327.592	6360.398	6368.351	6396.187
55.0	6288.822	6304.728	6359.404	6514.488	6714.306	6926.054	7029.443	7056.285	7047.337	7089.091
57.5	6771.965	6802.783	6908.160	7146.750	7469.840	7771.059	7933.101	7920.177	7937.077	7957.954
60.0	7256.103	7292.886	7488.728	7858.542	8322.797	8759.217	9033.595	9036.577	9052.483	9045.524
62.5	7477.793	7534.458	7867.489	8341.685	9000.789	9695.681	10197.713	10354.784	10392.561	10374.667
65.0	7099.032	7194.468	7666.676	8312.856	9200.608	10154.966	11042.717	11546.738	11827.080	11947.369
67.0	6224.204	6335.545	6849.507	7678.605	8681.675	9845.793	11094.412	12043.799	12618.402	13014.063
67.5	5901.114	6016.432	6526.417	7402.239	8419.227	9639.016	10974.123	12058.711	12714.832	13156.223
70.0	3619.602	3728.955	4202.158	5074.003	6089.997	7510.599	9213.531	10907.517	12044.793	12569.690
72.5	1591.591	1645.273	1899.769	2278.530	2848.162	3951.639	5496.506	7323.704	8605.128	9257.273
75.0	711.792	726.704	786.351	870.852	1005.058	1320.195	1899.769	3001.257	4014.268	4629.630
77.5	404.608	407.590	452.326	487.120	536.826	595.480	672.027	843.016	1139.265	1344.054
80.0	260.460	258.472	273.384	306.190	345.955	374.784	401.626	436.420	483.144	508.991
82.5	156.077	154.089	159.060	172.977	204.789	220.695	232.625	245.548	258.472	257.478
85.0	52.689	57.659	63.624	71.577	92.453	96.430	101.401	103.389	96.430	91.459
87.5	5.965	6.959	9.941	10.935	14.912	15.906	16.900	17.894	16.900	14.912
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	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886	2894.886	
2.5	2896.874	2898.862	2901.845	2904.827	2905.821	2907.810	2910.792	2909.798	2914.768	
5.0	2917.751	2918.745	2925.704	2929.680	2930.674	2933.657	2937.633	2936.639	2939.621	
7.5	2960.498	2963.480	2968.451	2974.416	2978.392	2981.375	2987.339	2985.351	2987.339	
10.0	3011.198	3015.175	3020.145	3026.110	3032.075	3034.063	3042.016	3042.016	3041.022	
12.5	3062.893	3068.857	3072.834	3077.805	3083.769	3088.740	3094.705	3097.687	3094.705	
15.0	3113.593	3118.564	3123.534	3128.505	3135.464	3141.428	3149.381	3155.346	3150.376	
17.5	3164.293	3169.264	3177.217	3183.182	3191.135	3198.093	3209.029	3216.982	3211.017	
20.0	3221.952	3225.929	3232.888	3243.823	3253.764	3262.711	3275.635	3286.570	3283.588	
22.5	3287.565	3291.541	3299.494	3308.441	3322.359	3335.282	3350.194	3365.106	3365.106	
25.0	3364.112	3367.094	3377.036	3386.977	3403.877	3417.795	3438.671	3452.589	3453.583	

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27.5	3457.560	3464.518	3473.465	3485.395	3503.289	3517.207	3534.107	3546.036	3553.989
30.0	3578.843	3583.813	3594.748	3604.690	3626.560	3639.484	3656.384	3661.355	3674.278
32.5	3730.943	3736.908	3751.820	3760.767	3779.655	3786.614	3800.532	3801.526	3815.444
35.0	3922.809	3932.750	3945.674	3950.644	3966.550	3969.533	3983.451	3980.468	3993.392
37.5	4163.387	4173.328	4184.263	4188.240	4202.158	4197.187	4200.169	4199.175	4208.122
40.0	4462.618	4456.653	4476.536	4473.553	4478.524	4452.677	4440.747	4436.771	4442.735
42.5	4796.643	4791.672	4803.602	4787.696	4760.855	4715.125	4688.284	4681.325	4687.290
45.0	5144.586	5131.663	5127.686	5093.886	5042.191	4980.556	4945.762	4937.809	4939.797
47.5	5498.494	5475.629	5454.752	5417.970	5346.393	5272.828	5231.075	5220.139	5217.157
50.0	5894.155	5876.261	5853.396	5826.554	5723.166	5628.724	5575.041	5559.135	5558.141
52.5	6406.128	6427.999	6399.169	6336.540	6200.345	6065.144	5991.579	5962.749	5948.832
55.0	7150.726	7169.615	7127.861	6998.625	6816.701	6601.970	6480.687	6430.981	6422.034
57.5	8066.313	8085.202	8036.490	7847.606	7580.187	7257.097	7081.138	6990.672	6974.766
60.0	9152.890	9180.725	9129.031	8907.341	8531.563	8066.313	7754.159	7597.087	7510.599
62.5	10484.020	10514.838	10453.203	10074.442	9476.974	8830.794	8335.721	8044.443	7924.154
65.0	12091.517	11986.140	11636.209	10814.069	9847.782	8960.030	8272.097	7760.124	7653.752
67.0	13028.975	12631.326	11766.439	10515.832	9283.120	8235.314	7416.157	6794.830	6721.265
67.5	13137.334	12644.249	11651.121	10286.190	9003.771	7927.136	7075.173	6440.922	6379.287
70.0	12229.700	11307.154	9801.058	8077.249	6653.665	5398.087	4504.371	3963.568	3907.897
72.5	8921.259	7703.459	5935.908	4141.516	2959.504	2297.418	1972.340	1780.474	1762.580
75.0	4158.416	2988.334	1921.640	1378.848	1130.318	965.293	885.764	849.975	836.057
77.5	1115.406	845.999	728.692	650.156	596.474	550.744	508.991	483.144	479.167
80.0	487.120	453.320	434.432	407.590	385.720	353.908	305.196	297.243	298.237
82.5	265.431	258.472	255.490	244.554	227.654	197.830	175.960	175.960	179.936
85.0	92.453	105.377	102.395	99.412	94.442	76.547	69.589	70.583	68.594
87.5	15.906	16.900	13.918	13.918	13.918	11.929	9.941	9.941	8.947
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

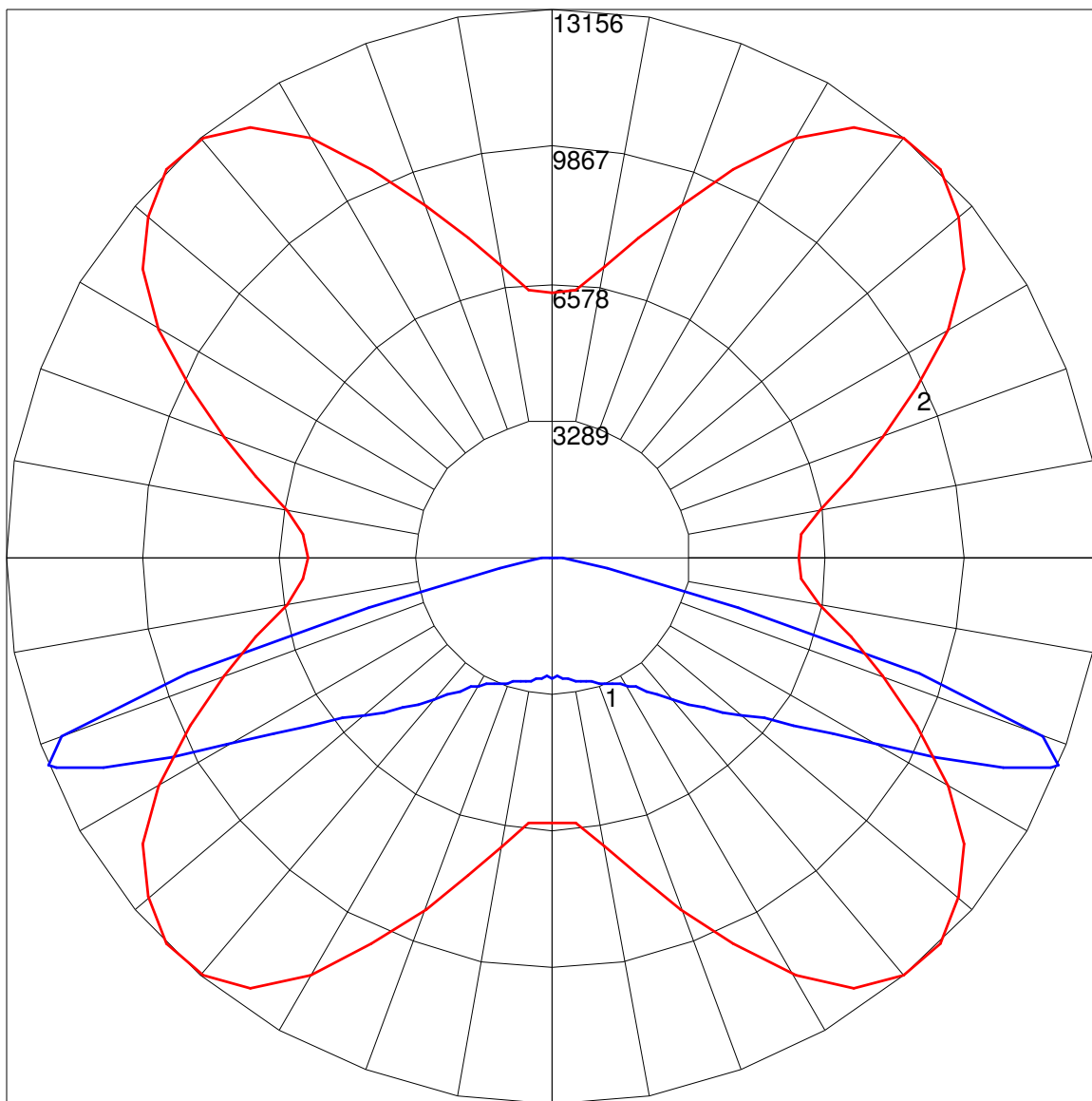
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

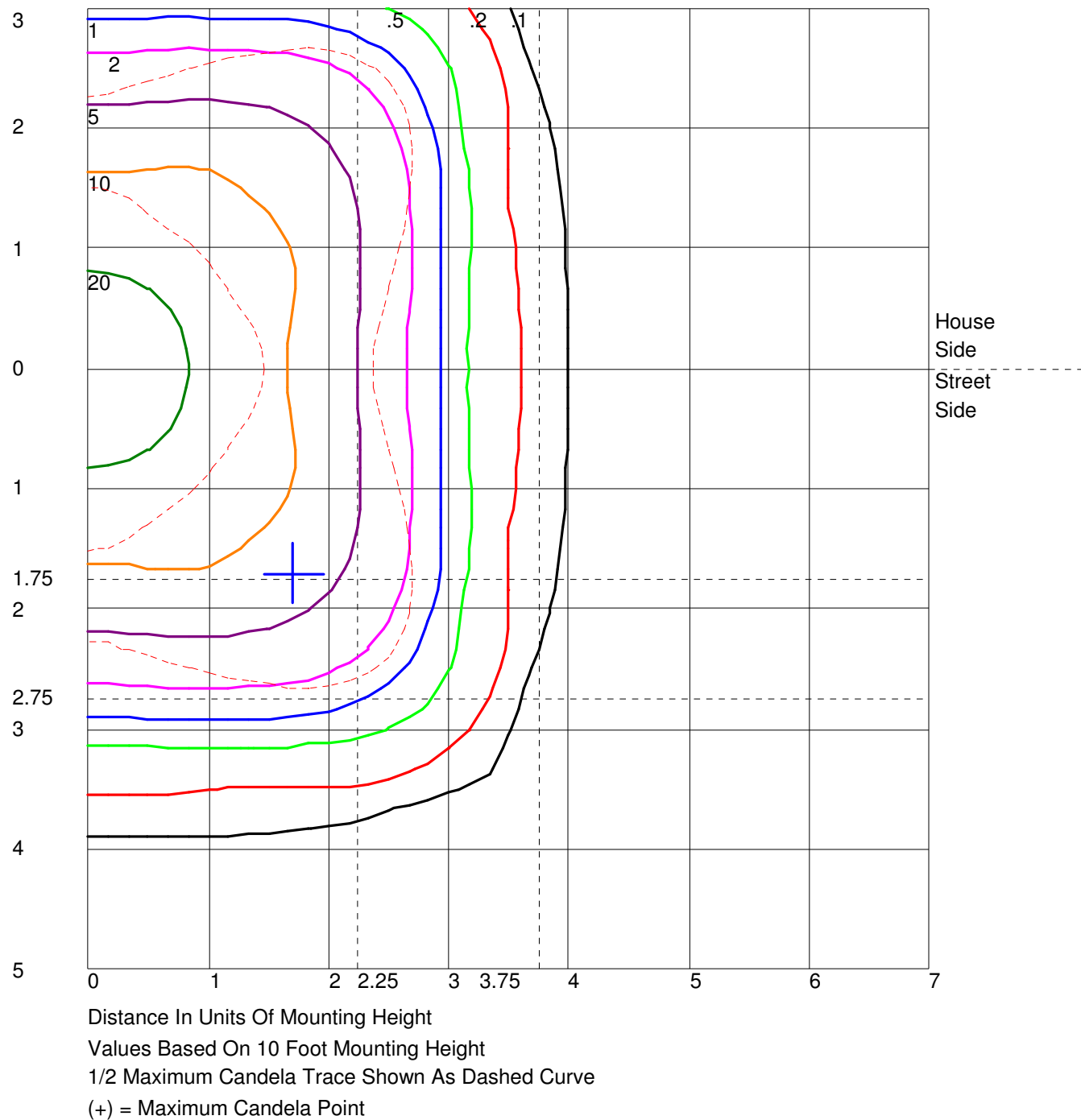
	Lumens	Percent Of Luminaire
Downward Street Side	13759.5	50.0
Downward House Side	13759.5	50.0
Downward Total	27519.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27519.0	100.0

POLAR GRAPH

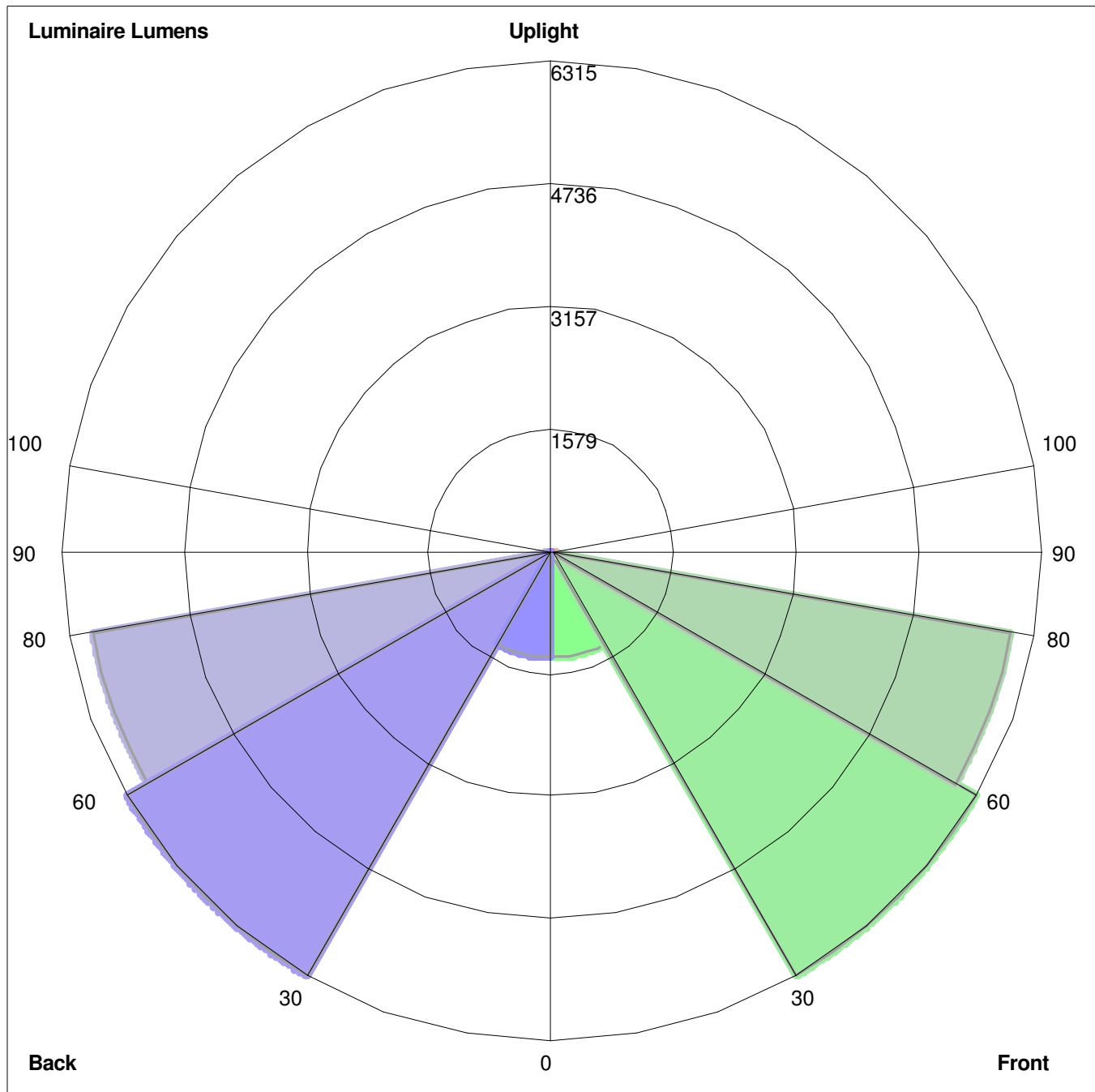


Maximum Candela = 13156.223 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1373.4, Medium=6314.5, High=6003.2, Very High=68.4
Back: Low=1373.4, Medium=6314.5, High=6003.2, Very High=68.4
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3