



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] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-730-T5-F-S-xxx-DIM-UNV
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE VSM
[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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24885
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11896.831
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	11896.831
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	460.267 (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)	1242.0	N.A.	5.0
FM - Front-Medium (30-60)	5710.1	N.A.	22.9
FH - Front-High (60-80)	5428.5	N.A.	21.8
FVH - Front-Very High (80-90)	61.8	N.A.	0.2
BL - Back-Low (0-30)	1242.0	N.A.	5.0
BM - Back-Medium (30-60)	5710.1	N.A.	22.9
BH - Back-High (60-80)	5428.5	N.A.	21.8
BVH - Back-Very High (80-90)	61.8	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	24884.8	N.A.	100.0
BUG Rating	B5-U0-G3		

IES ROAD REPORT
PHOTOMETRIC FILENAME : VA2-L280-730-T5-F-S-XXX-DIM-UNV_.IES

CANDELA TABULATION

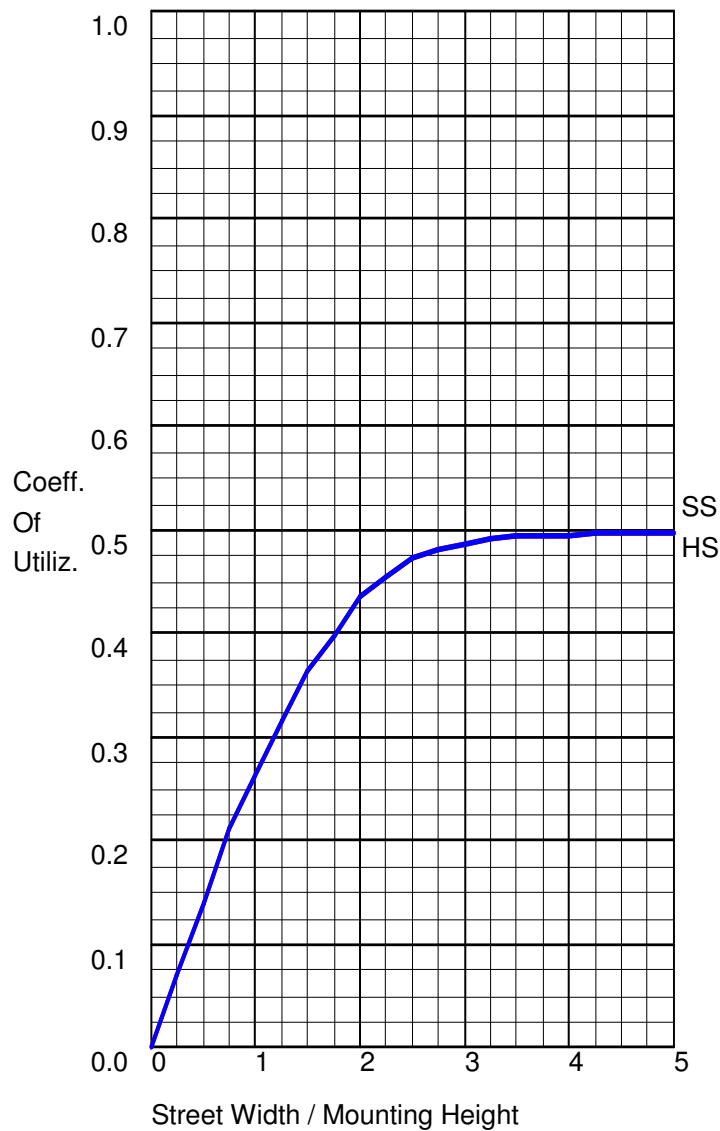
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770
2.5	2610.579	2610.579	2612.377	2612.377	2611.478	2610.579	2610.579	2613.275	2614.174	2618.669
5.0	2628.558	2629.457	2631.255	2628.558	2626.760	2627.659	2625.861	2629.457	2631.255	2636.648
7.5	2660.920	2662.718	2662.718	2661.819	2660.021	2660.920	2659.122	2666.314	2668.112	2673.506
10.0	2699.576	2700.475	2700.475	2700.475	2699.576	2702.272	2703.171	2710.363	2712.161	2718.454
12.5	2743.625	2744.524	2743.625	2741.827	2742.726	2746.322	2749.018	2756.210	2759.806	2765.200
15.0	2794.865	2794.865	2789.472	2789.472	2791.269	2793.067	2796.663	2802.057	2805.653	2811.946
17.5	2857.792	2853.298	2845.207	2844.308	2844.308	2844.308	2845.207	2850.601	2854.197	2858.691
20.0	2926.113	2918.023	2906.336	2906.336	2904.538	2902.740	2901.842	2905.437	2905.437	2910.831
22.5	2999.828	2989.041	2980.051	2975.556	2971.960	2971.061	2963.870	2967.466	2965.668	2968.365
25.0	3078.937	3069.947	3061.856	3057.362	3051.968	3046.574	3038.483	3039.382	3035.786	3036.685
27.5	3176.024	3164.338	3156.247	3151.752	3141.864	3139.167	3129.278	3128.379	3121.188	3126.581
30.0	3290.192	3277.607	3270.415	3264.122	3256.032	3250.638	3238.951	3238.951	3229.962	3235.356
32.5	3413.350	3401.663	3394.471	3396.269	3384.583	3389.977	3379.189	3377.391	3365.705	3367.503
35.0	3573.364	3559.880	3549.092	3554.486	3550.890	3554.486	3547.294	3549.092	3536.507	3546.396
37.5	3763.944	3751.358	3743.268	3754.954	3746.864	3763.944	3755.853	3763.045	3752.257	3766.641
40.0	3979.694	3966.210	3958.119	3975.199	3985.987	4006.663	4011.158	4023.743	4016.551	4034.531
42.5	4187.354	4181.061	4180.162	4210.727	4237.695	4277.250	4301.522	4321.299	4322.198	4345.571
45.0	4403.104	4399.508	4411.195	4449.850	4492.101	4563.119	4590.088	4630.541	4643.126	4662.903
47.5	4630.541	4635.935	4654.813	4704.255	4766.284	4848.089	4884.047	4939.783	4957.762	4985.630
50.0	4915.511	4925.400	4946.076	5008.104	5092.606	5203.178	5247.227	5305.659	5314.649	5342.517
52.5	5267.903	5277.792	5303.862	5397.353	5514.218	5662.546	5721.878	5751.543	5758.735	5783.906
55.0	5686.818	5701.202	5750.644	5890.882	6071.573	6263.051	6356.543	6380.815	6372.724	6410.481
57.5	6123.713	6151.580	6246.870	6462.620	6754.782	7027.167	7173.697	7162.011	7177.293	7196.171
60.0	6561.506	6594.767	6771.862	7106.275	7526.090	7920.733	8168.846	8171.543	8185.926	8179.633
62.5	6761.974	6813.215	7114.366	7543.170	8139.180	8767.553	9221.527	9363.563	9397.723	9381.542
65.0	6419.470	6505.770	6932.776	7517.100	8319.871	9182.872	9985.643	10441.415	10694.922	10803.696
67.0	5628.386	5729.069	6193.831	6943.564	7850.614	8903.296	10032.389	10890.895	11410.494	11768.280
67.5	5336.224	5440.503	5901.670	6693.653	7613.289	8716.312	9923.615	10904.380	11497.693	11896.831
70.0	3273.112	3371.997	3799.902	4588.290	5507.026	6791.640	8331.557	9863.384	10891.794	11366.445
72.5	1439.234	1487.778	1717.912	2060.415	2575.519	3573.364	4970.348	6622.635	7781.394	8371.112
75.0	643.655	657.139	711.077	787.489	908.848	1193.818	1717.912	2713.959	3629.999	4186.455
77.5	365.877	368.573	409.027	440.490	485.438	538.477	607.697	762.318	1030.208	1215.393
80.0	235.527	233.729	247.214	276.880	312.838	338.908	363.180	394.643	436.894	460.267
82.5	141.137	139.339	143.834	156.419	185.186	199.569	210.357	222.043	233.729	232.831
85.0	47.645	52.140	57.533	64.725	83.603	87.199	91.694	93.492	87.199	82.704
87.5	5.394	6.293	8.990	9.889	13.484	14.383	15.282	16.181	15.282	13.484
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	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770	2617.770
2.5	2619.568	2621.366	2624.063	2626.760	2627.659	2629.457	2632.154	2631.255	2635.749
5.0	2638.446	2639.345	2645.638	2649.234	2650.133	2652.830	2656.426	2655.527	2658.223
7.5	2677.102	2679.798	2684.293	2689.687	2693.283	2695.980	2701.374	2699.576	2701.374
10.0	2722.949	2726.544	2731.039	2736.433	2741.827	2743.625	2750.816	2750.816	2749.917
12.5	2769.694	2775.088	2778.684	2783.179	2788.573	2793.067	2798.461	2801.158	2798.461
15.0	2815.541	2820.036	2824.531	2829.026	2835.319	2840.712	2847.904	2853.298	2848.803
17.5	2861.388	2865.883	2873.075	2878.469	2885.660	2891.953	2901.842	2909.033	2903.639
20.0	2913.528	2917.124	2923.417	2933.305	2942.295	2950.385	2962.072	2971.960	2969.263
22.5	2972.859	2976.455	2983.647	2991.737	3004.323	3016.009	3029.494	3042.978	3042.978
25.0	3042.079	3044.776	3053.766	3062.755	3078.038	3090.623	3109.501	3122.087	3122.986

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-730-T5-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

27.5	3126.581	3132.874	3140.965	3151.752	3167.934	3180.519	3195.801	3206.589	3213.780
30.0	3236.254	3240.749	3250.638	3259.627	3279.405	3291.091	3306.373	3310.868	3322.555
32.5	3373.795	3379.189	3392.673	3400.764	3417.844	3424.137	3436.722	3437.621	3450.207
35.0	3547.294	3556.284	3567.971	3572.465	3586.849	3589.546	3602.131	3599.434	3611.121
37.5	3764.843	3773.832	3783.721	3787.317	3799.902	3795.407	3798.104	3797.205	3805.296
40.0	4035.430	4030.036	4048.015	4045.318	4049.813	4026.440	4015.652	4012.057	4017.450
42.5	4337.480	4332.985	4343.773	4329.389	4305.117	4263.765	4239.493	4233.201	4238.594
45.0	4652.116	4640.429	4636.833	4606.269	4559.523	4503.787	4472.324	4465.132	4466.930
47.5	4972.145	4951.469	4932.591	4899.330	4834.605	4768.082	4730.325	4720.437	4717.740
50.0	5329.931	5313.750	5293.074	5268.802	5175.310	5089.909	5041.365	5026.982	5026.083
52.5	5792.896	5812.673	5786.603	5729.968	5606.811	5484.552	5418.029	5391.960	5379.374
55.0	6466.216	6483.296	6445.540	6328.675	6164.166	5969.991	5860.317	5815.370	5807.279
57.5	7294.158	7311.238	7267.189	7096.387	6854.567	6562.405	6403.289	6321.484	6307.100
60.0	8276.721	8301.892	8255.146	8054.678	7714.871	7294.158	7011.885	6869.849	6791.640
62.5	9480.428	9508.295	9452.560	9110.056	8569.782	7985.458	7537.776	7274.381	7165.607
65.0	10934.045	10838.756	10522.322	9778.882	8905.094	8102.323	7480.243	7017.278	6921.090
67.0	11781.764	11422.180	10640.086	9509.194	8394.485	7446.981	6706.238	6144.389	6077.866
67.5	11879.751	11433.867	10535.806	9301.535	8141.877	7168.304	6397.895	5824.359	5768.624
70.0	11059.001	10224.766	8862.842	7304.047	6016.736	4881.351	4073.186	3584.152	3533.810
72.5	8067.263	6966.038	5367.688	3745.066	2676.203	2077.496	1783.536	1610.037	1593.855
75.0	3760.348	2702.272	1737.689	1246.857	1022.117	872.890	800.973	768.610	756.025
77.5	1008.633	765.015	658.937	587.920	539.376	498.024	460.267	436.894	433.299
80.0	440.490	409.926	392.845	368.573	348.796	320.030	275.981	268.789	269.688
82.5	240.022	233.729	231.033	221.144	205.862	178.893	159.116	159.116	162.712
85.0	83.603	95.290	92.593	89.896	85.401	69.220	62.927	63.826	62.028
87.5	14.383	15.282	12.585	12.585	12.585	10.788	8.990	8.990	8.091
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

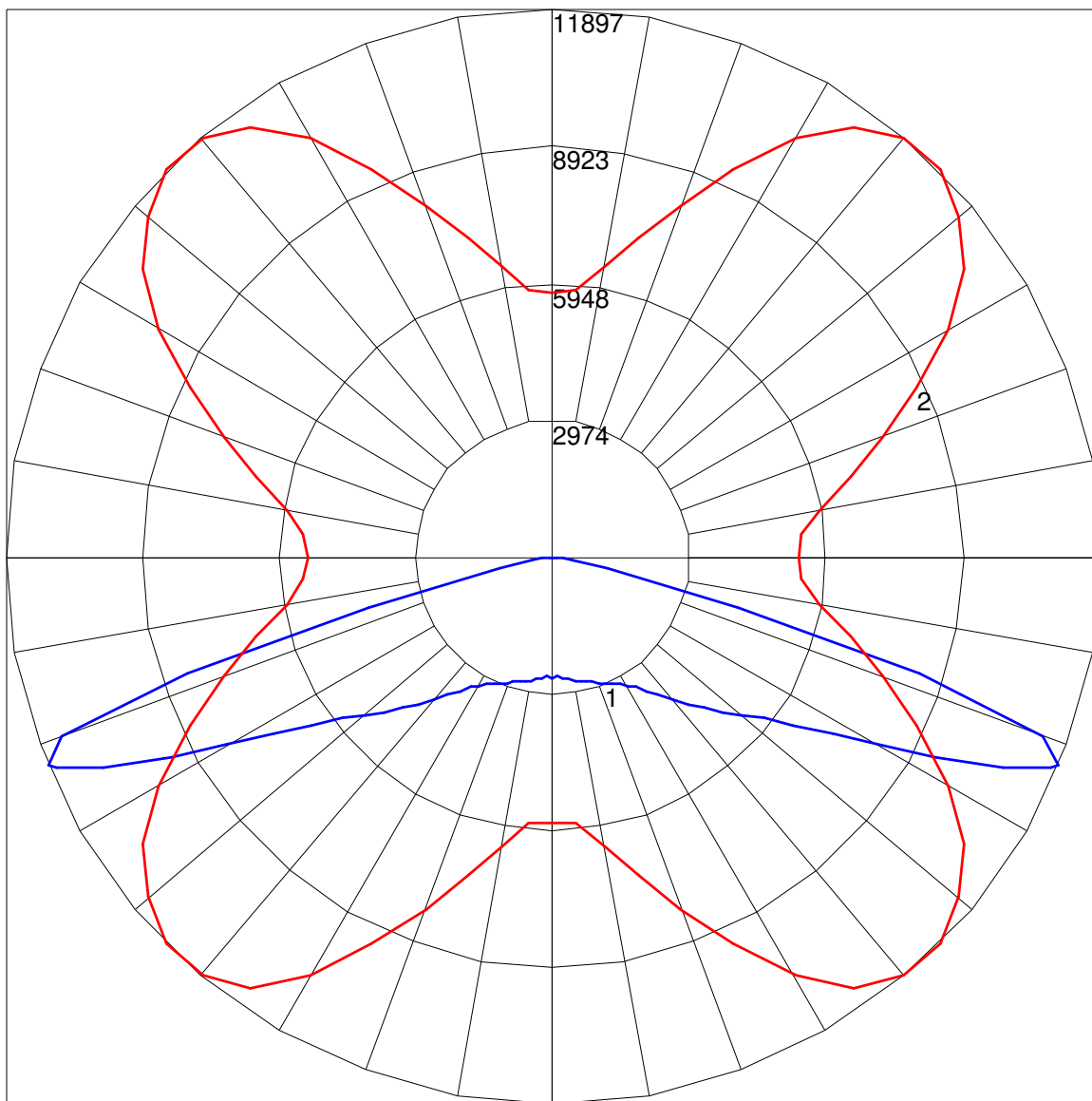
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

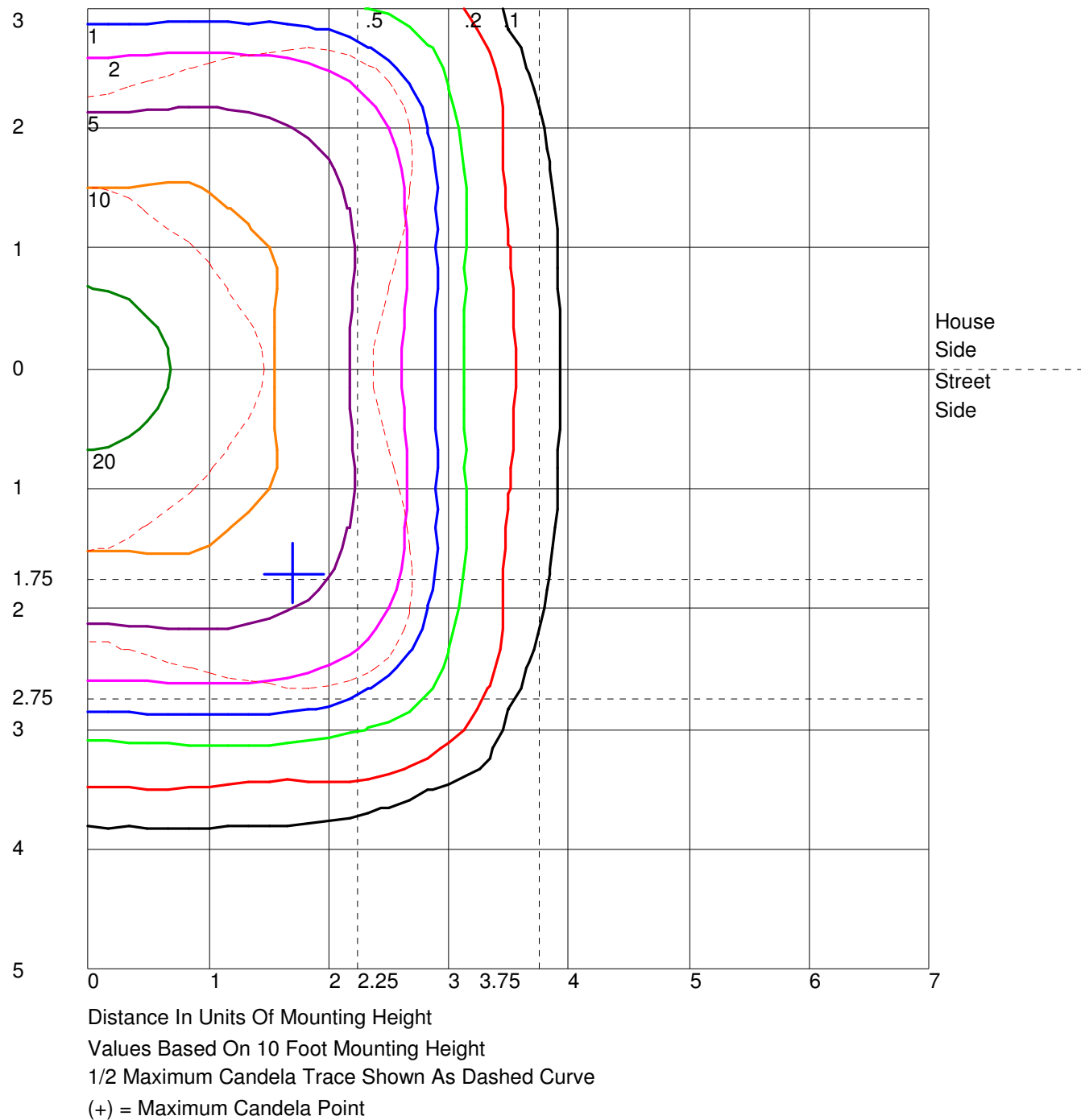
	Lumens	Percent Of Luminaire
Downward Street Side	12442.3	50.0
Downward House Side	12442.3	50.0
Downward Total	24884.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	24884.6	100.0

POLAR GRAPH

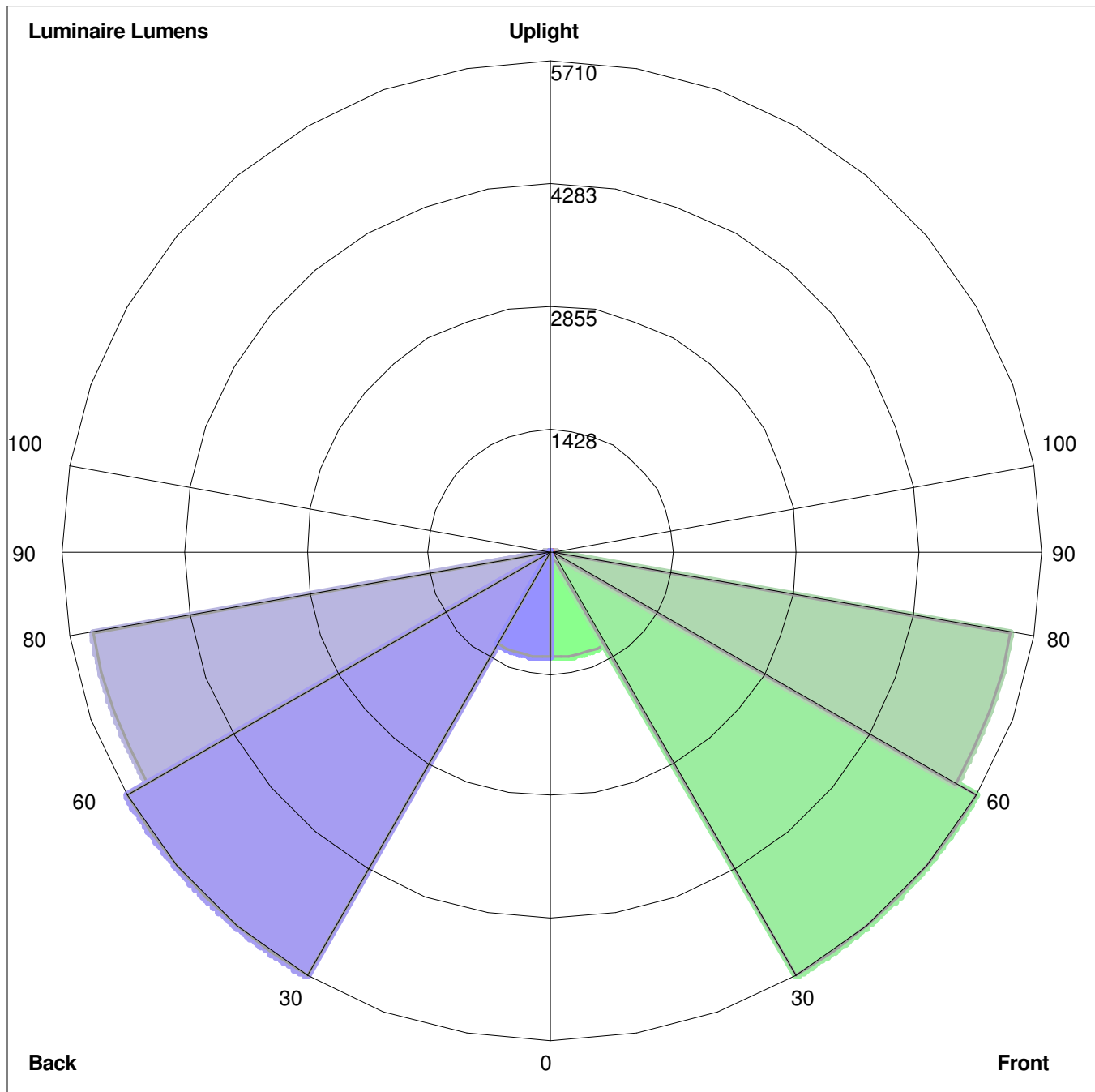


Maximum Candela = 11896.831 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1242.0, Medium=5710.1, High=5428.5, Very High=61.8
Back: Low= 1242.0, Medium=5710.1, High=5428.5, Very High=61.8
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3