



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L220-740-T5-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011764
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L220-740-T5-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] VSM OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[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	23291
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	182
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10994.42
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	10994.42
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	527.557 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L220-740-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1195.5	N.A.	5.1
FM - Front-Medium (30-60)	5437.6	N.A.	23.3
FH - Front-High (60-80)	4933.7	N.A.	21.2
FVH - Front-Very High (80-90)	78.9	N.A.	0.3
BL - Back-Low (0-30)	1195.5	N.A.	5.1
BM - Back-Medium (30-60)	5437.6	N.A.	23.3
BH - Back-High (60-80)	4933.7	N.A.	21.2
BVH - Back-Very High (80-90)	78.9	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	23291.4	N.A.	100.0
BUG Rating	B4-U0-G2		

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CANDELA TABULATION

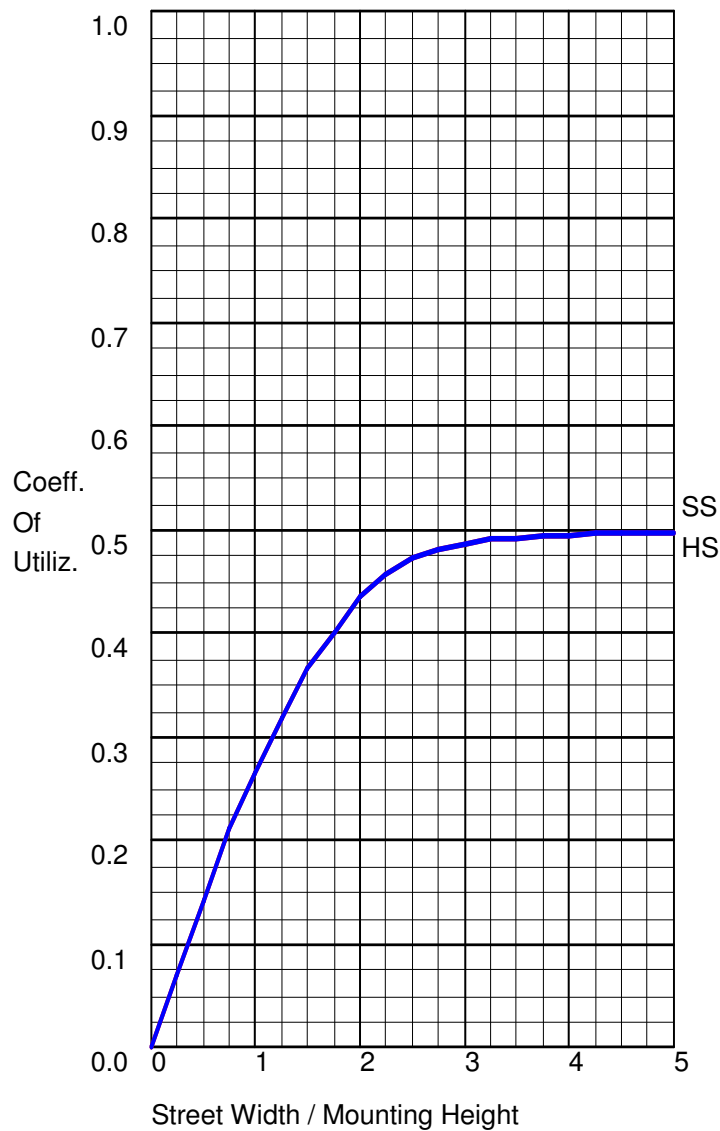
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278
2.5	2545.432	2547.741	2547.741	2545.432	2546.587	2545.432	2545.432	2544.278	2545.432	2546.587
5.0	2562.748	2567.366	2566.211	2563.903	2565.057	2563.903	2562.748	2560.439	2562.748	2565.057
7.5	2593.917	2599.689	2599.689	2596.225	2596.225	2596.225	2597.380	2595.071	2596.225	2601.997
10.0	2632.012	2636.629	2637.784	2634.320	2635.475	2636.629	2637.784	2637.784	2640.092	2644.710
12.5	2668.952	2674.724	2677.033	2673.570	2674.724	2678.187	2680.496	2681.650	2683.959	2687.422
15.0	2712.819	2717.437	2716.282	2717.437	2716.282	2718.591	2719.745	2723.208	2726.672	2727.826
17.5	2760.149	2765.921	2763.612	2764.767	2761.303	2763.612	2762.458	2763.612	2767.075	2768.230
20.0	2819.023	2821.332	2817.869	2817.869	2813.251	2810.942	2810.942	2810.942	2810.942	2812.097
22.5	2876.742	2877.897	2874.434	2872.125	2867.507	2865.199	2864.044	2860.581	2859.427	2859.427
25.0	2944.852	2946.006	2941.388	2937.925	2929.844	2926.381	2924.073	2919.455	2918.301	2917.146
27.5	3036.048	3031.431	3024.505	3019.887	3008.343	3004.880	2999.108	2992.182	2991.027	2991.027
30.0	3138.789	3133.017	3127.245	3123.782	3109.929	3105.312	3094.922	3085.687	3086.842	3087.996
32.5	3262.309	3257.692	3249.611	3251.920	3238.067	3235.758	3223.060	3210.362	3204.590	3205.744
35.0	3408.917	3404.299	3401.990	3404.299	3391.601	3390.447	3383.520	3369.667	3366.204	3361.587
37.5	3582.075	3579.767	3582.075	3586.693	3579.767	3584.384	3583.230	3571.686	3564.760	3557.833
40.0	3772.550	3780.631	3781.785	3799.101	3801.410	3816.417	3819.880	3815.262	3818.726	3812.954
42.5	3983.804	3991.884	3997.656	4023.053	4042.677	4076.155	4085.390	4095.779	4099.243	4115.404
45.0	4205.447	4210.064	4220.454	4257.394	4289.717	4345.128	4368.216	4387.840	4404.002	4422.472
47.5	4445.560	4454.795	4455.949	4510.206	4566.771	4634.880	4656.813	4687.982	4715.687	4734.158
50.0	4729.540	4737.621	4748.010	4810.348	4887.692	4986.969	5011.212	5037.763	5064.314	5089.710
52.5	5073.549	5075.857	5089.710	5188.988	5289.420	5430.256	5456.806	5492.593	5508.754	5539.923
55.0	5442.954	5453.343	5500.673	5651.899	5820.440	5986.672	6053.627	6087.104	6106.729	6148.287
57.5	5841.219	5853.917	5937.033	6164.448	6434.576	6685.079	6802.826	6833.995	6853.620	6906.722
60.0	6231.403	6264.880	6417.260	6727.791	7124.902	7488.535	7691.708	7744.810	7742.501	7770.206
62.5	6383.783	6454.200	6731.254	7172.232	7736.729	8309.307	8683.329	8798.769	8811.467	8817.239
65.0	5943.960	6002.833	6423.032	7003.691	7795.603	8659.087	9416.368	9786.927	10023.577	10112.466
67.5	4754.937	4761.863	5273.258	5935.879	6881.325	7987.232	9145.086	10065.136	10710.440	10994.420
70.0	2849.037	2825.949	3265.772	3849.894	4756.091	5946.268	7385.794	8732.968	9674.951	10092.841
72.5	1343.711	1318.315	1535.340	1790.461	2373.428	3056.828	4259.703	5543.386	6507.302	7014.080
75.0	701.870	696.098	753.817	806.919	963.917	1145.156	1608.067	2267.224	2873.279	3300.404
77.5	430.588	435.205	472.146	502.160	554.108	596.820	689.171	818.463	982.387	1081.664
80.0	289.752	289.752	303.605	332.465	370.560	392.493	436.360	473.300	513.704	527.557
82.5	181.239	180.085	185.857	199.710	230.878	244.731	267.819	283.980	298.987	293.215
85.0	65.800	66.955	78.499	90.043	113.130	117.748	129.292	136.218	132.755	128.137
87.5	10.390	11.544	15.007	19.625	26.551	28.860	35.786	40.404	41.558	41.558
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	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278	2544.278	
2.5	2545.432	2544.278	2546.587	2546.587	2547.741	2547.741	2545.432	2546.587	2546.587	
5.0	2562.748	2562.748	2565.057	2565.057	2567.366	2568.520	2566.211	2568.520	2571.983	
7.5	2598.534	2597.380	2599.689	2600.843	2603.152	2604.306	2603.152	2606.615	2612.387	
10.0	2642.401	2641.247	2643.556	2643.556	2645.864	2647.019	2645.864	2650.482	2658.563	
12.5	2686.268	2685.114	2686.268	2687.422	2689.731	2687.422	2688.577	2694.349	2705.893	
15.0	2727.826	2725.517	2725.517	2726.672	2728.980	2728.980	2731.289	2739.370	2752.068	
17.5	2767.075	2764.767	2768.230	2768.230	2770.539	2775.156	2778.619	2789.009	2804.016	
20.0	2809.788	2808.633	2813.251	2814.405	2821.332	2827.104	2831.721	2845.574	2861.735	
22.5	2855.963	2854.809	2862.890	2867.507	2876.742	2883.669	2892.904	2907.911	2921.764	
25.0	2914.837	2914.837	2924.073	2930.999	2942.543	2952.932	2962.167	2978.329	2993.336	
27.5	2991.027	2991.027	2999.108	3010.652	3021.041	3031.431	3042.975	3055.673	3069.526	

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30.0	3087.996	3089.150	3096.077	3106.466	3118.010	3128.400	3139.944	3150.333	3160.723
32.5	3208.053	3212.670	3221.905	3233.449	3242.684	3249.611	3257.692	3264.618	3273.853
35.0	3366.204	3370.822	3382.366	3396.218	3399.682	3407.762	3408.917	3419.306	3425.078
37.5	3565.914	3567.068	3579.767	3590.156	3597.083	3597.083	3597.083	3598.237	3608.626
40.0	3816.417	3810.645	3824.498	3830.270	3830.270	3809.490	3803.719	3802.564	3810.645
42.5	4106.169	4094.625	4099.243	4093.471	4072.692	4033.442	4017.281	4017.281	4032.288
45.0	4419.009	4393.612	4382.068	4361.289	4320.886	4271.247	4248.159	4238.924	4266.629
47.5	4730.695	4707.607	4681.056	4659.122	4595.631	4537.911	4511.360	4496.353	4518.287
50.0	5089.710	5078.166	5050.461	5023.910	4936.176	4855.369	4818.428	4797.649	4820.737
52.5	5556.084	5564.165	5546.849	5472.968	5347.139	5229.391	5167.054	5139.349	5155.510
55.0	6184.073	6206.006	6170.220	6037.465	5861.998	5680.758	5575.709	5521.452	5528.379
57.5	6951.743	6973.676	6929.809	6720.865	6506.148	6227.940	6057.090	5955.503	5938.188
60.0	7842.933	7862.557	7834.852	7590.121	7299.215	6903.258	6621.587	6456.509	6425.341
62.5	8874.958	8933.832	8903.818	8552.883	8046.106	7474.682	7017.543	6727.791	6637.749
65.0	10132.090	10078.988	9758.068	9014.640	8156.927	7335.001	6726.637	6289.122	6130.971
67.5	10874.364	10344.498	9496.021	8361.254	7273.818	6284.505	5537.614	5036.608	4831.127
70.0	9893.131	9036.573	7763.280	6372.239	5116.261	4146.573	3369.667	2978.329	2805.170
72.5	6846.693	5859.689	4390.149	3039.512	2186.417	1804.313	1493.782	1363.336	1299.844
75.0	2984.101	2218.740	1448.761	1135.921	963.917	879.646	793.067	757.281	736.501
77.5	935.057	803.456	701.870	641.841	588.739	548.336	506.778	470.992	455.984
80.0	520.630	481.381	449.058	417.890	391.339	361.324	318.612	303.605	297.833
82.5	301.296	288.598	274.745	256.275	240.113	215.871	190.475	188.166	191.629
85.0	131.601	132.755	128.137	120.057	114.285	100.432	91.197	90.043	90.043
87.5	42.712	41.558	36.941	34.632	32.323	30.014	25.397	26.551	25.397
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

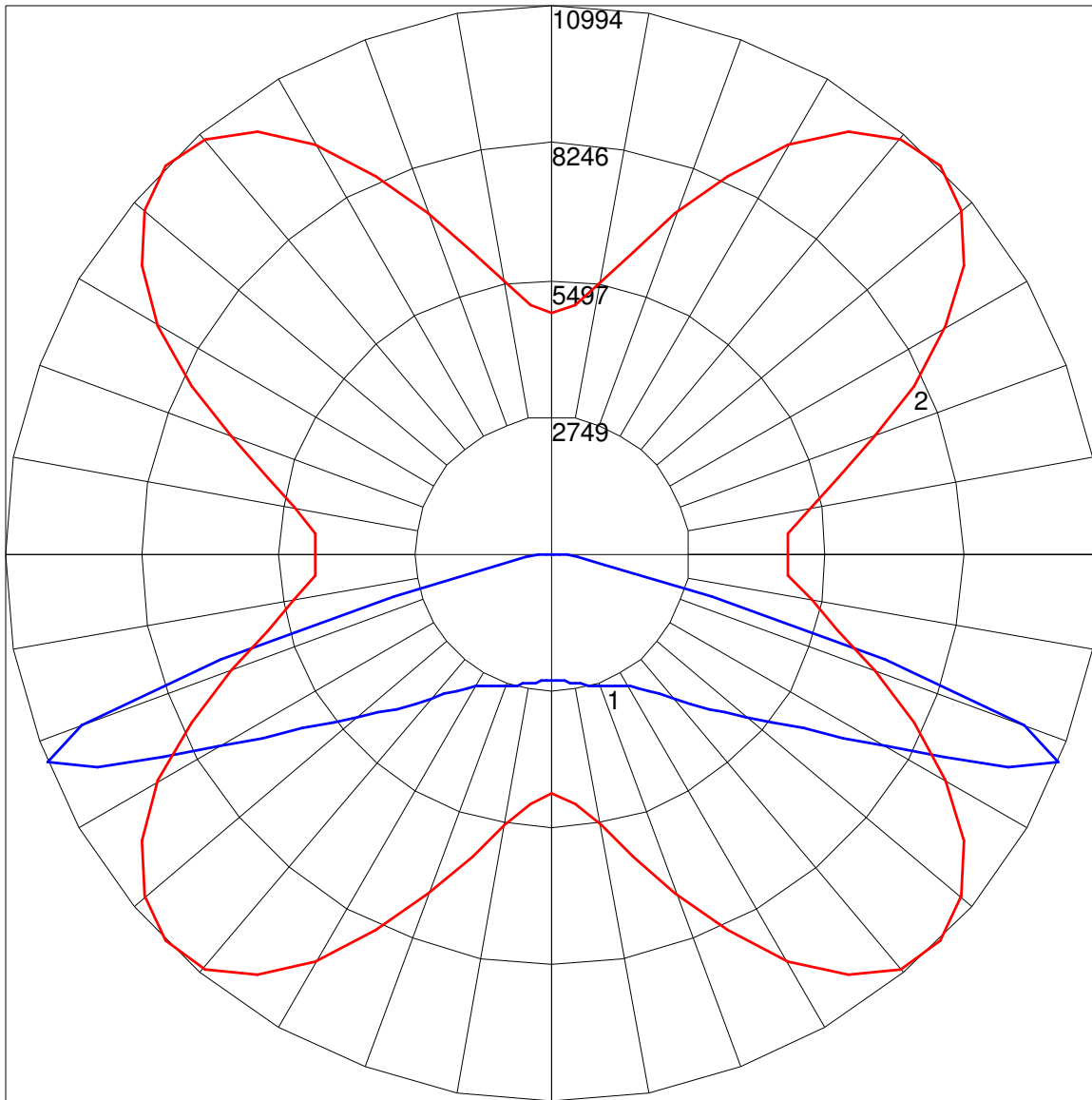
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

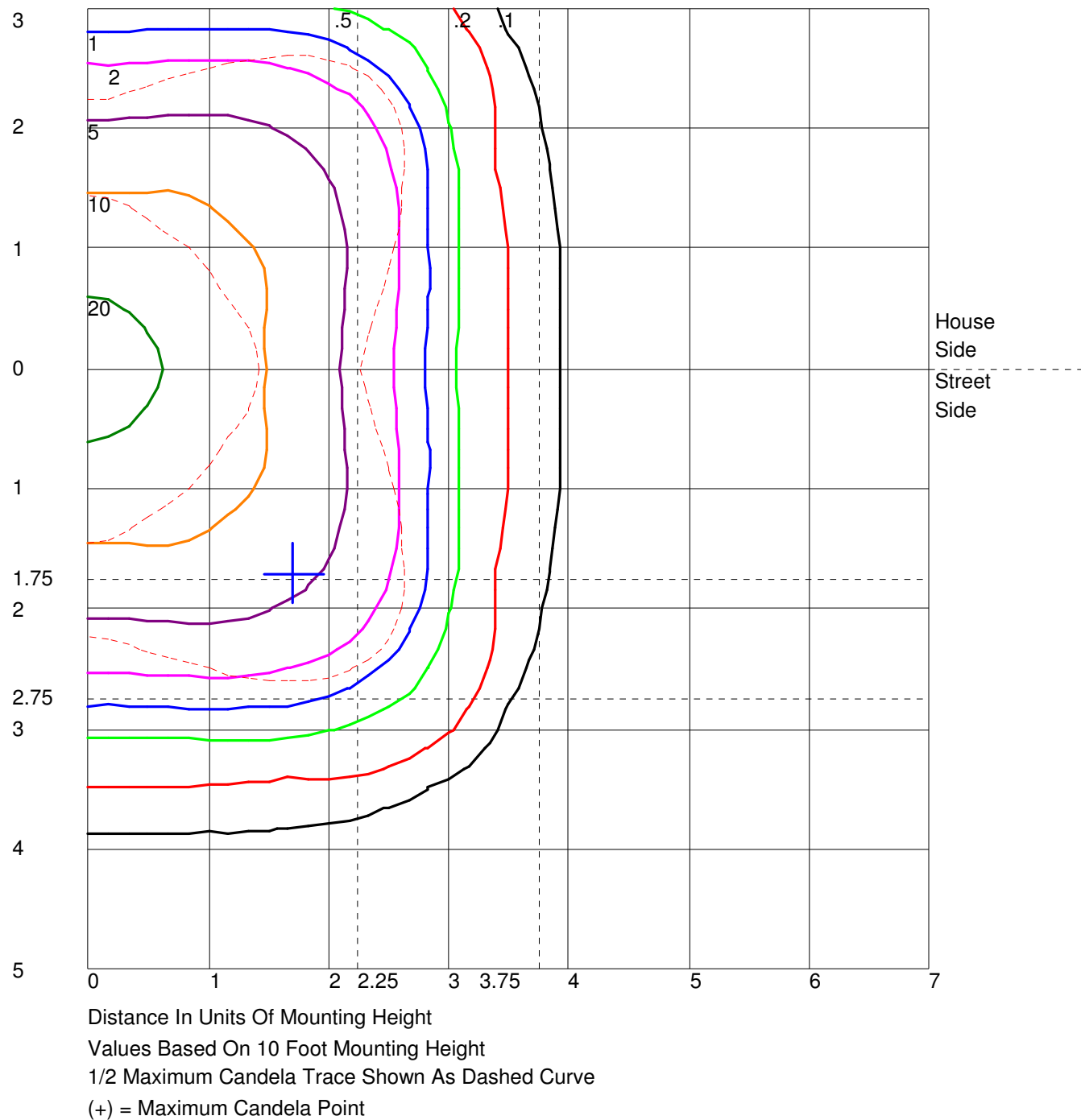
	Lumens	Percent Of Luminaire
Downward Street Side	11645.6	50.0
Downward House Side	11645.6	50.0
Downward Total	23291.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23291.2	100.0

POLAR GRAPH

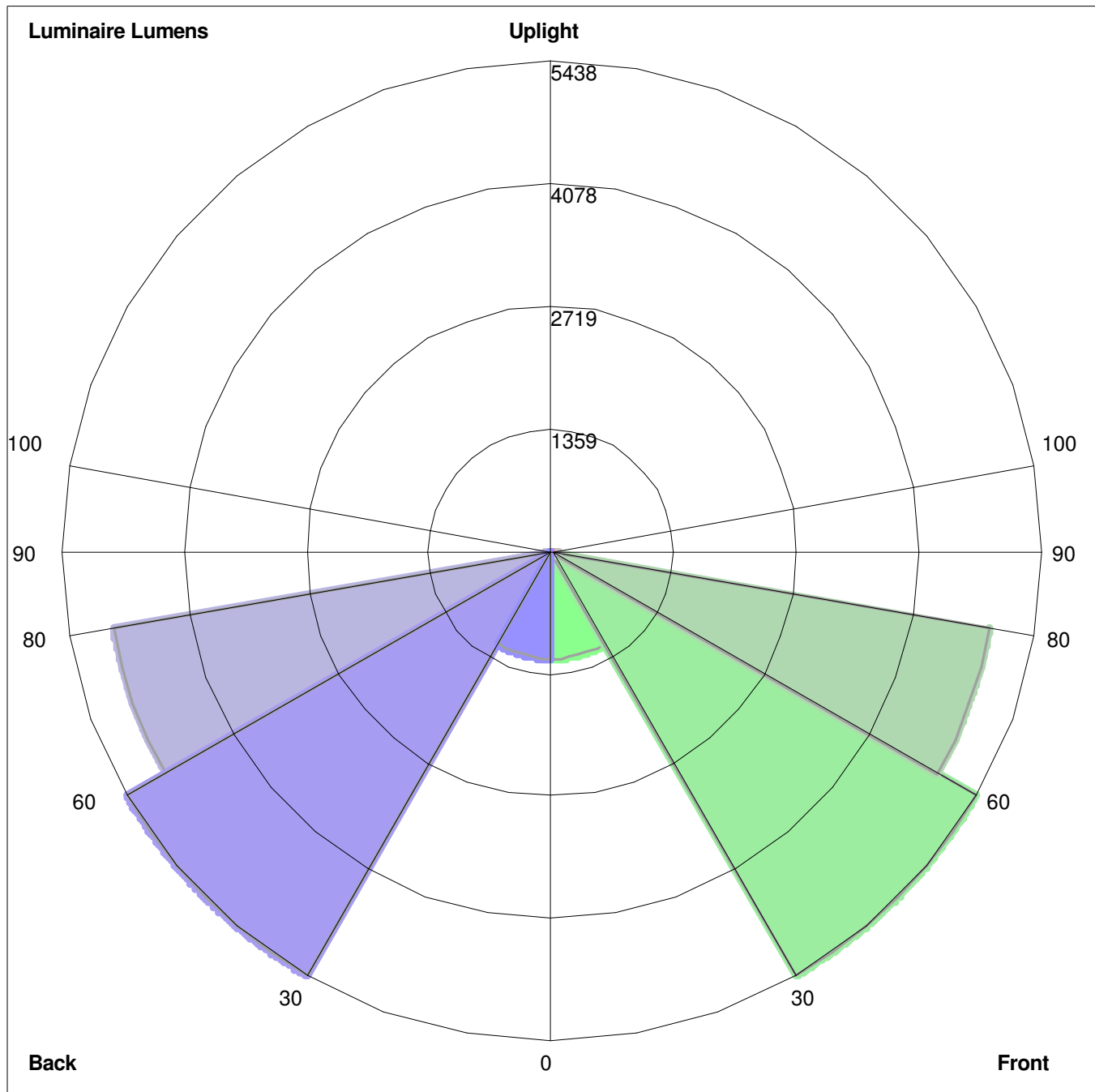


Maximum Candela = 10994.42 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1195.5, Medium=5437.6, High=4933.7, Very High=78.9
Back: Low=1195.5, Medium=5437.6, High=4933.7, Very High=78.9
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2