



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L220-730-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-L220-730-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	21195
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	182
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10004.924
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	10004.924
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	480.077 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L220-730-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1087.9	N.A.	5.1
FM - Front-Medium (30-60)	4948.2	N.A.	23.3
FH - Front-High (60-80)	4489.6	N.A.	21.2
FVH - Front-Very High (80-90)	71.8	N.A.	0.3
BL - Back-Low (0-30)	1087.9	N.A.	5.1
BM - Back-Medium (30-60)	4948.2	N.A.	23.3
BH - Back-High (60-80)	4489.6	N.A.	21.2
BVH - Back-Very High (80-90)	71.8	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	21195.0	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	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293
2.5	2316.344	2318.445	2318.445	2316.344	2317.394	2316.344	2316.344	2315.293	2316.344	2317.394
5.0	2332.101	2336.303	2335.253	2333.152	2334.202	2333.152	2332.101	2330.000	2332.101	2334.202
7.5	2360.464	2365.717	2365.717	2362.565	2362.565	2362.565	2363.616	2361.515	2362.565	2367.818
10.0	2395.131	2399.333	2400.383	2397.232	2398.282	2399.333	2400.383	2400.383	2402.484	2406.686
12.5	2428.747	2433.999	2436.100	2432.949	2433.999	2437.151	2439.252	2440.302	2442.403	2445.555
15.0	2468.666	2472.868	2471.817	2472.868	2471.817	2473.918	2474.969	2478.120	2481.272	2482.322
17.5	2511.736	2516.988	2514.887	2515.938	2512.786	2514.887	2513.837	2514.887	2518.039	2519.089
20.0	2565.311	2567.412	2564.261	2564.261	2560.059	2557.958	2557.958	2557.958	2557.958	2559.008
22.5	2617.836	2618.886	2615.735	2613.634	2609.432	2607.331	2606.281	2603.129	2602.079	2602.079
25.0	2679.815	2680.866	2676.664	2673.512	2666.159	2663.007	2660.906	2656.704	2655.654	2654.603
27.5	2762.804	2758.602	2752.299	2748.097	2737.593	2734.441	2729.189	2722.886	2721.835	2721.835
30.0	2856.299	2851.046	2845.794	2842.642	2830.036	2825.834	2816.380	2807.976	2809.026	2810.077
32.5	2968.702	2964.500	2957.146	2959.247	2946.641	2944.540	2932.985	2921.429	2916.177	2917.227
35.0	3102.115	3097.913	3095.812	3097.913	3086.357	3085.307	3079.004	3066.398	3063.246	3059.044
37.5	3259.689	3257.588	3259.689	3263.891	3257.588	3261.790	3260.740	3250.235	3243.932	3237.629
40.0	3433.021	3440.374	3441.425	3457.182	3459.283	3472.940	3476.091	3471.889	3475.041	3469.788
42.5	3625.262	3632.615	3637.868	3660.978	3678.837	3709.301	3717.705	3727.160	3730.311	3745.018
45.0	3826.957	3831.159	3840.613	3874.229	3903.643	3954.067	3975.077	3992.935	4007.642	4024.450
47.5	4045.460	4053.864	4054.914	4104.288	4155.762	4217.741	4237.701	4266.064	4291.276	4308.084
50.0	4303.882	4311.236	4320.690	4377.417	4447.800	4538.143	4560.203	4584.364	4608.526	4631.637
52.5	4616.930	4619.031	4631.637	4721.979	4813.373	4941.533	4965.695	4998.260	5012.967	5041.330
55.0	4953.089	4962.543	5005.613	5143.228	5296.601	5447.872	5508.801	5539.265	5557.124	5594.942
57.5	5315.510	5327.065	5402.701	5609.649	5855.465	6083.422	6190.573	6218.936	6236.795	6285.117
60.0	5670.577	5701.042	5839.707	6122.291	6483.661	6814.567	6999.455	7047.778	7045.677	7070.888
62.5	5809.243	5873.323	6125.442	6526.732	7040.424	7561.470	7901.831	8006.880	8018.436	8023.688
65.0	5409.004	5462.579	5844.960	6373.359	7093.999	7879.770	8568.896	8906.105	9121.457	9202.345
67.5	4326.993	4333.296	4798.666	5401.650	6262.007	7268.382	8322.029	9159.274	9746.502	10004.924
70.0	2592.624	2571.614	2971.853	3503.404	4328.043	5411.105	6721.073	7947.002	8804.207	9184.486
72.5	1222.777	1199.666	1397.160	1629.319	2159.820	2781.713	3876.330	5044.482	5921.646	6382.814
75.0	638.702	633.449	685.974	734.297	877.164	1042.092	1463.341	2063.174	2614.684	3003.368
77.5	391.835	396.037	429.653	456.966	504.238	543.106	627.146	744.802	893.972	984.315
80.0	263.674	263.674	276.280	302.543	337.209	357.169	397.087	430.703	467.471	480.077
82.5	164.928	163.877	169.130	181.736	210.099	222.705	243.715	258.422	272.078	266.826
85.0	59.878	60.929	71.434	81.939	102.949	107.151	117.656	123.959	120.807	116.605
87.5	9.454	10.505	13.656	17.858	24.161	26.262	32.565	36.767	37.818	37.818
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

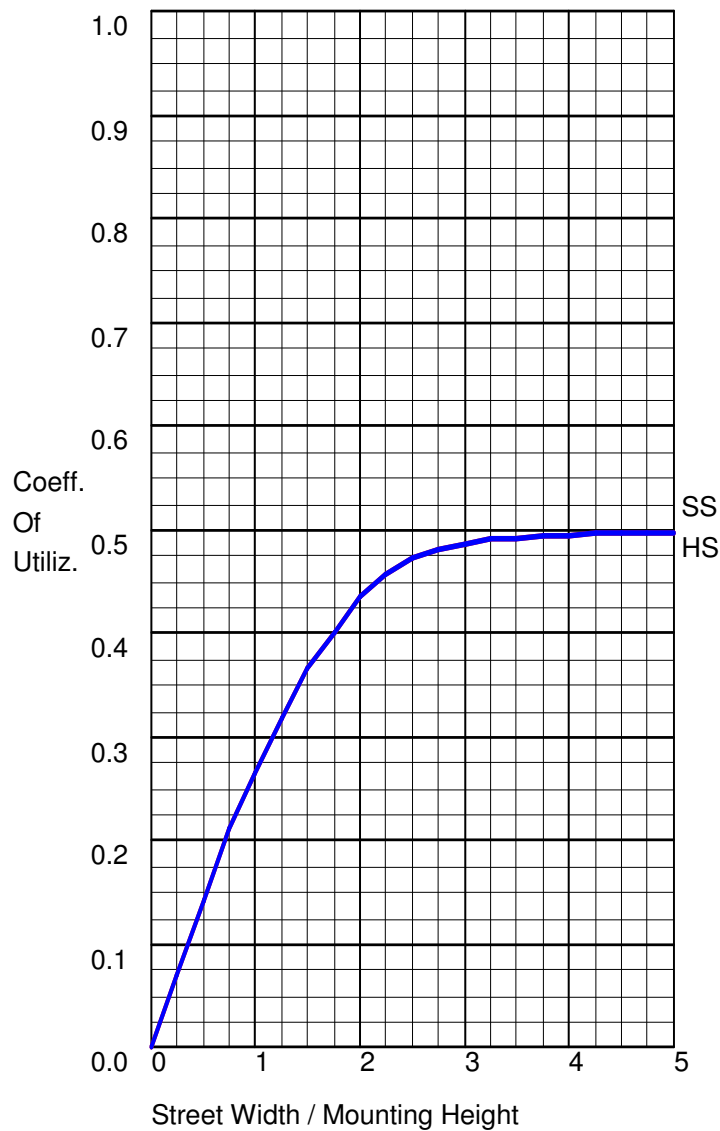
Vert. Angles	Horizontal Angles								
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293	2315.293
2.5	2316.344	2315.293	2317.394	2317.394	2318.445	2318.445	2316.344	2317.394	2317.394
5.0	2332.101	2332.101	2334.202	2334.202	2336.303	2337.354	2335.253	2337.354	2340.505
7.5	2364.666	2363.616	2365.717	2366.767	2368.868	2369.919	2368.868	2372.020	2377.272
10.0	2404.585	2403.535	2405.636	2405.636	2407.737	2408.787	2407.737	2411.939	2419.292
12.5	2444.504	2443.454	2444.504	2445.555	2447.656	2445.555	2446.605	2451.858	2462.363
15.0	2482.322	2480.221	2480.221	2481.272	2483.373	2483.373	2485.473	2492.827	2504.382
17.5	2518.039	2515.938	2519.089	2519.089	2521.190	2525.392	2528.544	2537.998	2551.655
20.0	2556.907	2555.857	2560.059	2561.109	2567.412	2572.665	2576.867	2589.473	2604.180
22.5	2598.927	2597.877	2605.230	2609.432	2617.836	2624.139	2632.543	2646.199	2658.805
25.0	2652.502	2652.502	2660.906	2667.209	2677.714	2687.169	2695.573	2710.280	2723.936
27.5	2721.835	2721.835	2729.189	2739.694	2749.148	2758.602	2769.107	2780.663	2793.269

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CANDELA TABULATION - (Cont.)

30.0	2810.077	2811.127	2817.430	2826.885	2837.390	2846.844	2857.349	2866.804	2876.258
32.5	2919.328	2923.530	2931.934	2942.439	2950.843	2957.146	2964.500	2970.803	2979.207
35.0	3063.246	3067.448	3077.953	3090.559	3093.711	3101.064	3102.115	3111.569	3116.822
37.5	3244.982	3246.033	3257.588	3267.043	3273.345	3273.345	3273.345	3274.396	3283.850
40.0	3472.940	3467.687	3480.293	3485.546	3485.546	3466.637	3461.384	3460.334	3467.687
42.5	3736.614	3726.109	3730.311	3725.059	3706.150	3670.433	3655.726	3655.726	3669.382
45.0	4021.299	3998.188	3987.683	3968.774	3932.006	3886.835	3865.825	3857.421	3882.633
47.5	4304.933	4283.923	4259.761	4239.802	4182.025	4129.500	4105.338	4091.682	4111.641
50.0	4631.637	4621.132	4595.920	4571.759	4491.921	4418.386	4384.770	4365.861	4386.871
52.5	5056.037	5063.391	5047.633	4980.401	4865.897	4758.747	4702.020	4676.808	4691.515
55.0	5627.507	5647.466	5614.901	5494.094	5334.419	5169.491	5073.896	5024.522	5030.825
57.5	6326.087	6346.046	6306.127	6115.988	5920.595	5667.426	5511.952	5419.509	5403.751
60.0	7137.070	7154.928	7129.716	6907.011	6642.286	6281.966	6025.645	5875.424	5847.061
62.5	8076.213	8129.788	8102.476	7783.125	7321.957	6801.961	6385.965	6122.291	6040.352
65.0	9220.203	9171.880	8879.843	8203.323	7422.805	6674.851	6121.240	5723.102	5579.184
67.5	9895.672	9413.494	8641.380	7608.742	6619.175	5718.900	5039.229	4583.314	4396.326
70.0	9002.751	8223.283	7064.585	5798.738	4655.798	3773.382	3066.398	2710.280	2552.705
72.5	6230.492	5332.318	3995.036	2765.956	1989.639	1641.925	1359.342	1240.636	1182.858
75.0	2715.532	2019.053	1318.372	1033.688	877.164	800.478	721.691	689.125	670.216
77.5	850.902	731.145	638.702	584.076	535.753	498.986	461.168	428.602	414.946
80.0	473.774	438.057	408.643	380.280	356.118	328.805	289.937	276.280	271.028
82.5	274.179	262.624	250.018	233.210	218.503	196.443	173.332	171.231	174.382
85.0	119.757	120.807	116.605	109.252	103.999	91.393	82.989	81.939	81.939
87.5	38.868	37.818	33.616	31.515	29.414	27.313	23.111	24.161	23.111
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

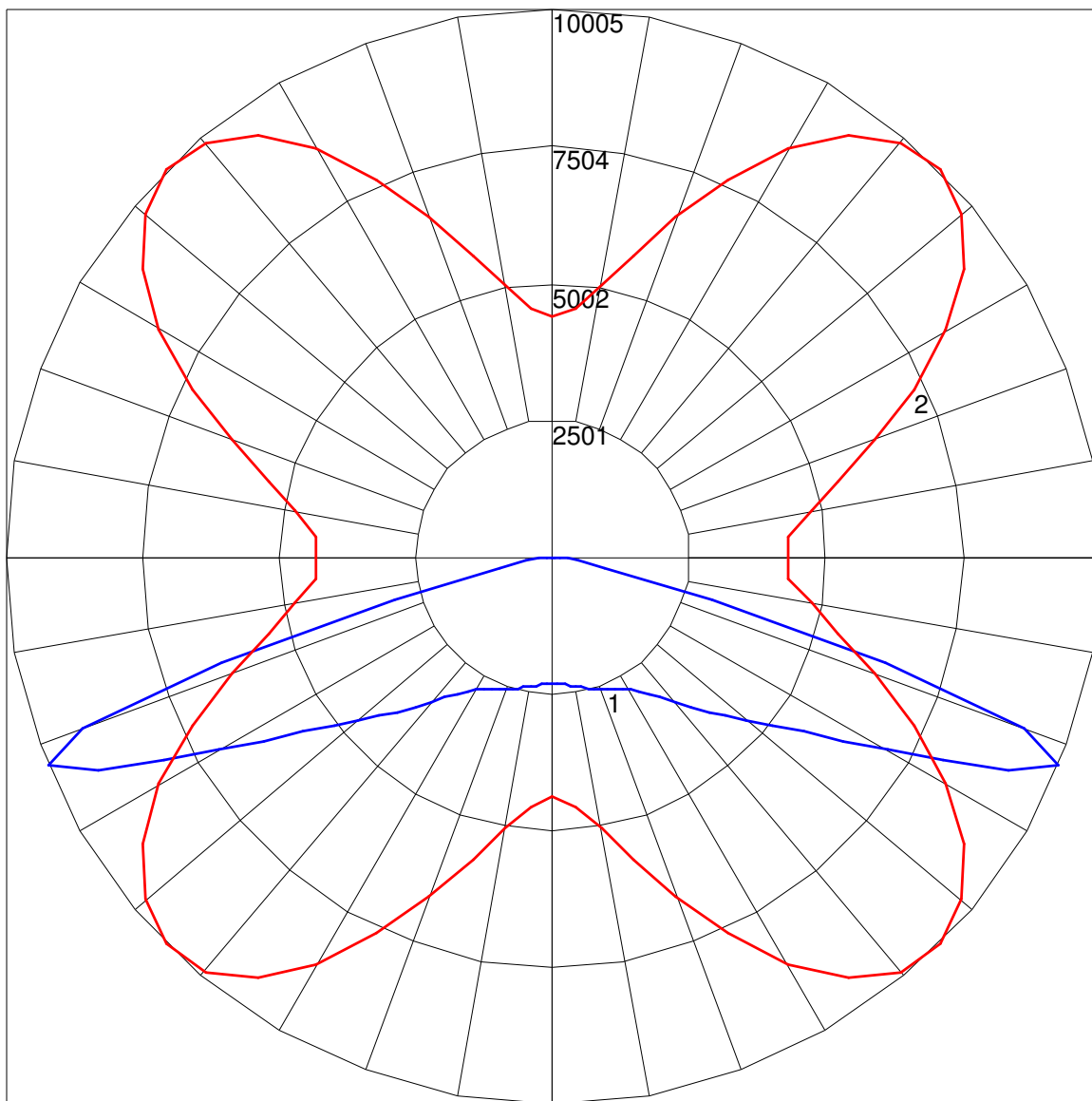
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

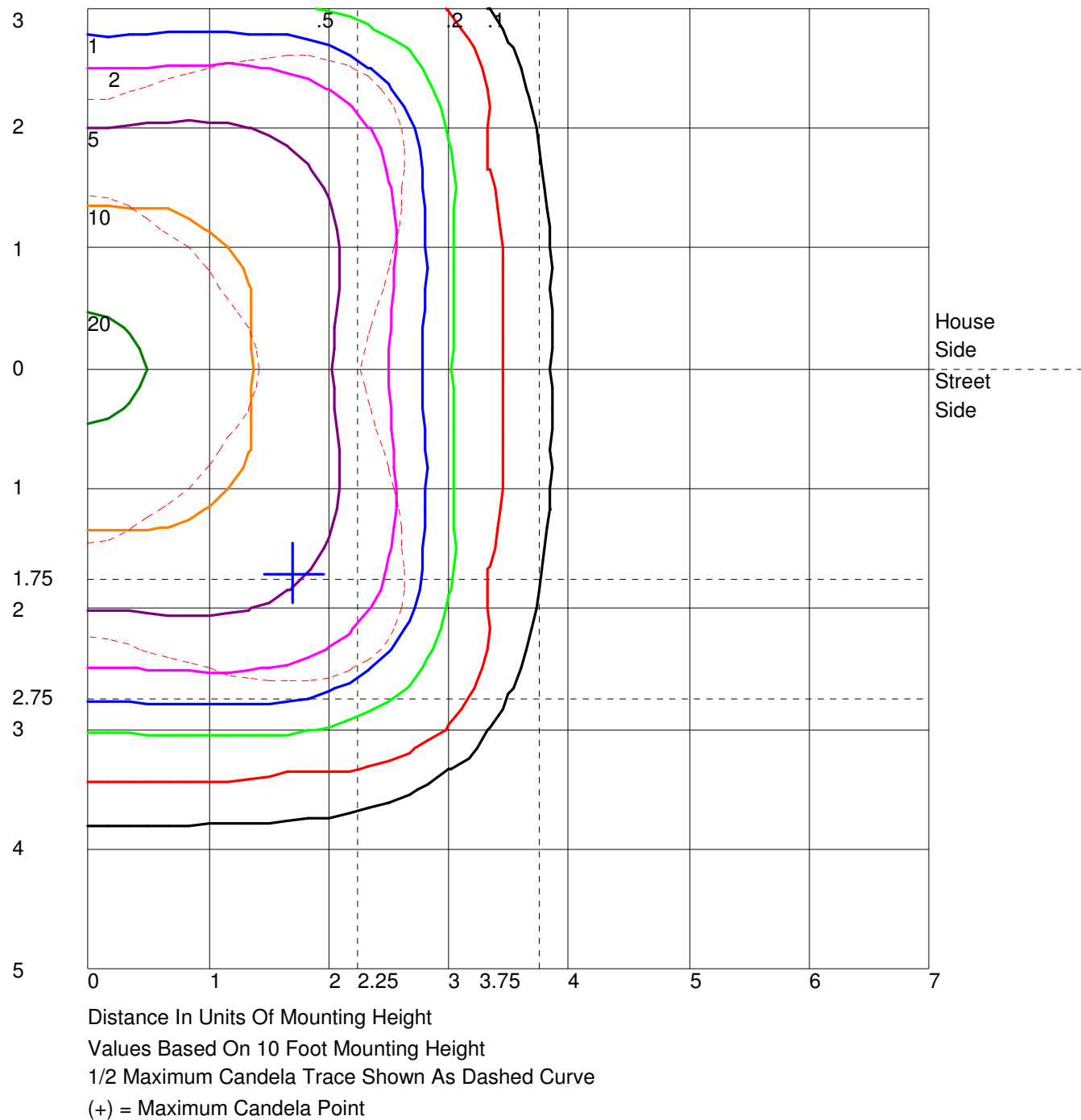
	Lumens	Percent Of Luminaire
Downward Street Side	10597.5	50.0
Downward House Side	10597.5	50.0
Downward Total	21195.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21195.0	100.0

POLAR GRAPH

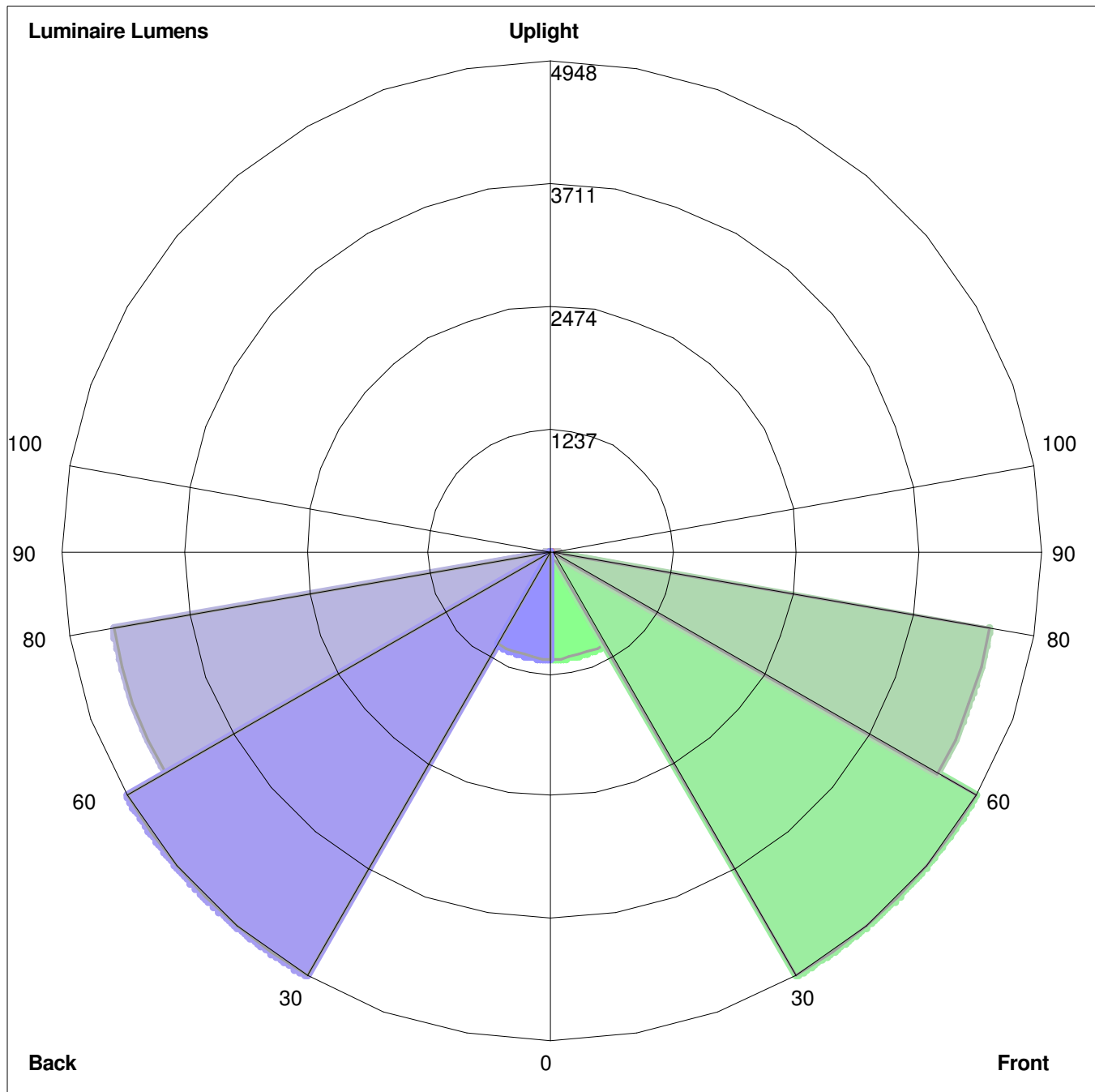


Maximum Candela = 10004.924 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=1087.9, Medium=4948.2, High=4489.6, Very High=71.8
 Back: Low=1087.9, Medium=4948.2, High=4489.6, Very High=71.8
 Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2