



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L220-750-T5-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011764
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L220-750-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	23990
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	182
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11324.255
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	11324.255
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	543.384 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L220-750-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1231.3	N.A.	5.1
FM - Front-Medium (30-60)	5600.7	N.A.	23.3
FH - Front-High (60-80)	5081.7	N.A.	21.2
FVH - Front-Very High (80-90)	81.2	N.A.	0.3
BL - Back-Low (0-30)	1231.3	N.A.	5.1
BM - Back-Medium (30-60)	5600.7	N.A.	23.3
BH - Back-High (60-80)	5081.7	N.A.	21.2
BVH - Back-Very High (80-90)	81.2	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	23989.8	N.A.	100.0
BUG Rating	B5-U0-G3		

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CANDELA TABULATION

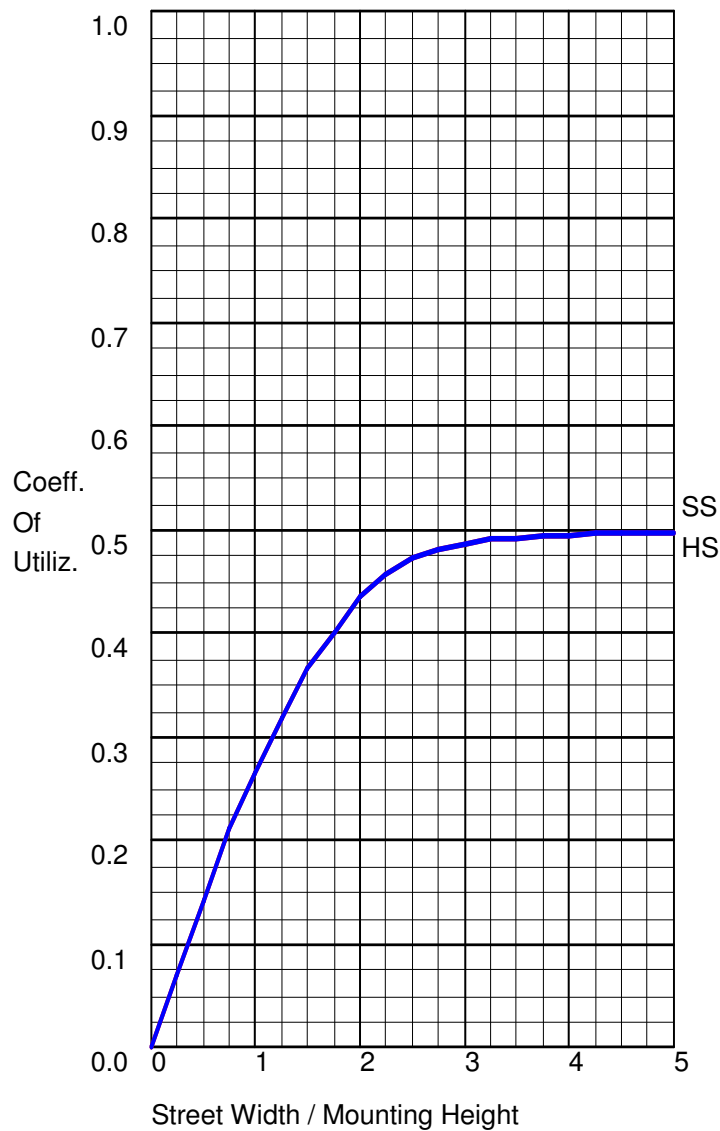
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607
2.5	2621.796	2624.174	2624.174	2621.796	2622.985	2621.796	2621.796	2620.607	2621.796	2622.985
5.0	2639.631	2644.387	2643.198	2640.820	2642.009	2640.820	2639.631	2637.253	2639.631	2642.009
7.5	2671.735	2677.680	2677.680	2674.113	2674.113	2674.113	2675.302	2672.924	2674.113	2680.058
10.0	2710.972	2715.729	2716.918	2713.351	2714.540	2715.729	2716.918	2716.918	2719.296	2724.052
12.5	2749.021	2754.966	2757.344	2753.777	2754.966	2758.533	2760.911	2762.100	2764.479	2768.046
15.0	2794.204	2798.960	2797.771	2798.960	2797.771	2800.149	2801.338	2804.905	2808.472	2809.661
17.5	2842.954	2848.899	2846.521	2847.710	2844.143	2846.521	2845.332	2846.521	2850.088	2851.277
20.0	2903.594	2905.972	2902.405	2902.405	2897.649	2895.271	2895.271	2895.271	2895.271	2896.460
22.5	2963.045	2964.234	2960.667	2958.289	2953.533	2951.155	2949.966	2946.399	2945.210	2945.210
25.0	3033.198	3034.387	3029.631	3026.064	3017.740	3014.173	3011.795	3007.039	3005.850	3004.661
27.5	3127.131	3122.374	3115.240	3110.484	3098.594	3095.027	3089.082	3081.948	3080.759	3080.759
30.0	3232.954	3227.008	3221.063	3217.496	3203.228	3198.472	3187.771	3178.259	3179.448	3180.637
32.5	3360.179	3355.423	3347.100	3349.478	3335.210	3332.832	3319.752	3306.673	3300.728	3301.917
35.0	3511.185	3506.429	3504.051	3506.429	3493.350	3492.161	3485.026	3470.758	3467.191	3462.435
37.5	3689.538	3687.160	3689.538	3694.295	3687.160	3691.916	3690.727	3678.837	3671.703	3664.569
40.0	3885.727	3894.050	3895.239	3913.075	3915.453	3930.910	3934.477	3929.721	3933.288	3927.343
42.5	4103.318	4111.642	4117.587	4143.745	4163.959	4198.440	4207.952	4218.654	4222.221	4238.867
45.0	4331.611	4336.367	4347.068	4385.117	4418.410	4475.483	4499.263	4519.476	4536.123	4555.147
47.5	4578.928	4588.440	4589.629	4645.513	4703.775	4773.927	4796.519	4828.622	4857.159	4876.183
50.0	4871.427	4879.750	4890.452	4954.659	5034.323	5136.579	5161.549	5188.896	5216.244	5242.402
52.5	5225.756	5228.134	5242.402	5344.658	5448.103	5593.164	5620.512	5657.372	5674.018	5706.121
55.0	5606.244	5616.945	5665.695	5821.457	5995.054	6166.273	6235.237	6269.718	6289.932	6332.737
57.5	6016.456	6029.536	6115.145	6349.383	6627.614	6885.632	7006.913	7039.016	7059.230	7113.925
60.0	6418.346	6452.828	6609.779	6929.626	7338.650	7713.192	7922.460	7977.155	7974.777	8003.314
62.5	6575.297	6647.828	6933.193	7387.400	7968.832	8558.588	8943.831	9062.733	9075.813	9081.758
65.0	6122.280	6182.920	6615.724	7213.803	8029.472	8918.862	9698.861	10080.537	10324.287	10415.842
67.5	4897.586	4904.720	5431.457	6113.956	7087.766	8226.850	9419.440	10367.092	11031.756	11324.255
70.0	2934.509	2910.728	3363.746	3965.392	4898.775	6124.658	7607.369	8994.959	9965.202	10395.628
72.5	1384.023	1357.864	1581.401	1844.175	2444.631	3148.533	4387.495	5709.689	6702.523	7224.504
75.0	722.926	716.981	776.432	831.127	992.834	1179.511	1656.309	2335.241	2959.478	3399.417
77.5	443.506	448.262	486.310	517.225	570.731	614.725	709.847	843.017	1011.859	1114.115
80.0	298.445	298.445	312.713	342.439	381.676	404.268	449.451	487.499	529.115	543.384
82.5	186.677	185.488	191.433	205.701	237.805	252.073	275.853	292.500	307.957	302.012
85.0	67.774	68.963	80.854	92.744	116.524	121.280	133.171	140.305	136.738	131.982
87.5	10.701	11.890	15.457	20.213	27.348	29.726	36.860	41.616	42.805	42.805
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	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607	2620.607	
2.5	2621.796	2620.607	2622.985	2622.985	2624.174	2624.174	2621.796	2622.985	2622.985	
5.0	2639.631	2639.631	2642.009	2642.009	2644.387	2645.576	2643.198	2645.576	2649.143	
7.5	2676.491	2675.302	2677.680	2678.869	2681.247	2682.436	2681.247	2684.814	2690.759	
10.0	2721.674	2720.485	2722.863	2722.863	2725.241	2726.430	2725.241	2729.997	2738.320	
12.5	2766.857	2765.668	2766.857	2768.046	2770.424	2768.046	2769.235	2775.180	2787.070	
15.0	2809.661	2807.283	2807.283	2808.472	2810.850	2810.850	2813.228	2821.552	2834.631	
17.5	2850.088	2847.710	2851.277	2851.277	2853.655	2858.411	2861.978	2872.680	2888.137	
20.0	2894.082	2892.893	2897.649	2898.838	2905.972	2911.917	2916.673	2930.942	2947.588	
22.5	2941.643	2940.454	2948.777	2953.533	2963.045	2970.179	2979.692	2995.149	3009.417	
25.0	3002.283	3002.283	3011.795	3018.929	3030.820	3041.521	3051.033	3067.679	3083.137	
27.5	3080.759	3080.759	3089.082	3100.972	3111.673	3122.374	3134.265	3147.344	3161.612	

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30.0	3180.637	3181.826	3188.960	3199.661	3211.551	3222.252	3234.143	3244.844	3255.545
32.5	3304.295	3309.051	3318.563	3330.453	3339.966	3347.100	3355.423	3362.557	3372.069
35.0	3467.191	3471.947	3483.837	3498.106	3501.673	3509.996	3511.185	3521.886	3527.831
37.5	3672.892	3674.081	3687.160	3697.862	3704.996	3704.996	3704.996	3706.185	3716.886
40.0	3930.910	3924.965	3939.233	3945.178	3945.178	3923.776	3917.831	3916.642	3924.965
42.5	4229.355	4217.465	4222.221	4216.276	4194.873	4154.446	4137.800	4137.800	4153.257
45.0	4551.580	4525.422	4513.531	4492.129	4450.513	4399.385	4375.605	4366.093	4394.629
47.5	4872.616	4848.836	4821.488	4798.897	4733.501	4674.049	4646.702	4631.245	4653.836
50.0	5242.402	5230.512	5201.976	5174.628	5084.262	5001.031	4962.982	4941.580	4965.360
52.5	5722.768	5731.091	5713.256	5637.158	5507.555	5386.274	5322.067	5293.530	5310.177
55.0	6369.596	6392.188	6355.328	6218.590	6037.859	5851.182	5742.981	5687.097	5694.231
57.5	7160.297	7182.888	7137.705	6922.492	6701.334	6414.779	6238.804	6134.170	6116.334
60.0	8078.222	8098.436	8069.899	7817.826	7518.193	7110.358	6820.236	6650.206	6618.102
62.5	9141.209	9201.849	9170.935	8809.472	8287.490	7698.924	7228.071	6929.626	6836.882
65.0	10436.055	10381.360	10050.812	9285.081	8401.637	7555.052	6928.437	6477.797	6314.901
67.5	11200.597	10654.835	9780.903	8612.094	7492.034	6473.041	5703.743	5187.707	4976.061
70.0	10189.927	9307.672	7996.180	6563.407	5269.750	4270.971	3470.758	3067.679	2889.326
72.5	7052.096	6035.481	4521.855	3130.698	2252.010	1858.443	1538.596	1404.236	1338.840
75.0	3073.625	2285.302	1492.224	1169.999	992.834	906.036	816.859	779.999	758.597
77.5	963.109	827.560	722.926	661.097	606.402	564.786	521.981	485.121	469.664
80.0	536.249	495.823	462.530	430.426	403.079	372.164	328.170	312.713	306.768
82.5	310.335	297.256	282.987	263.963	247.317	222.347	196.189	193.811	197.378
85.0	135.549	136.738	131.982	123.658	117.713	103.445	93.933	92.744	92.744
87.5	43.994	42.805	38.049	35.671	33.293	30.915	26.159	27.348	26.159
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

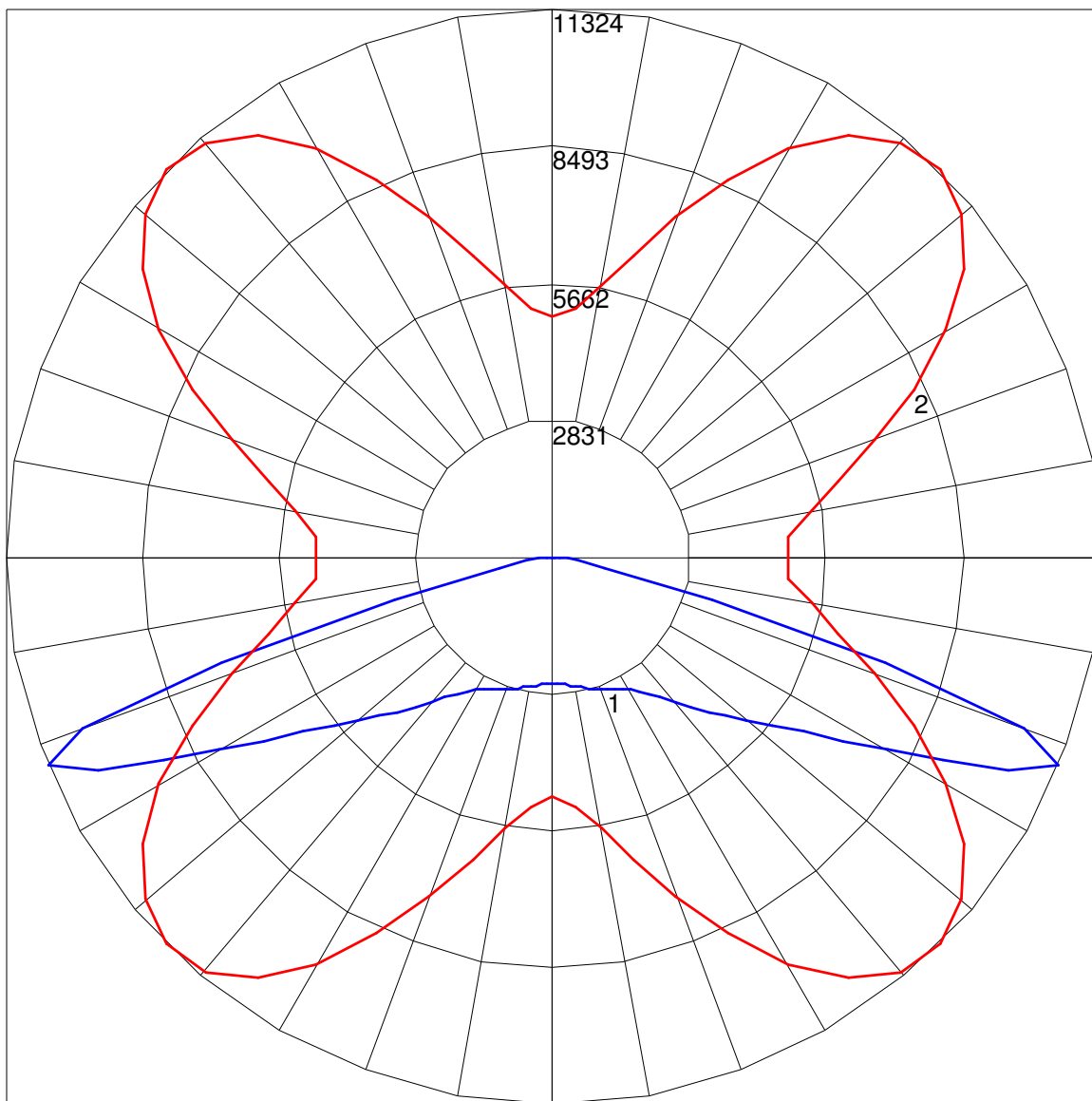
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

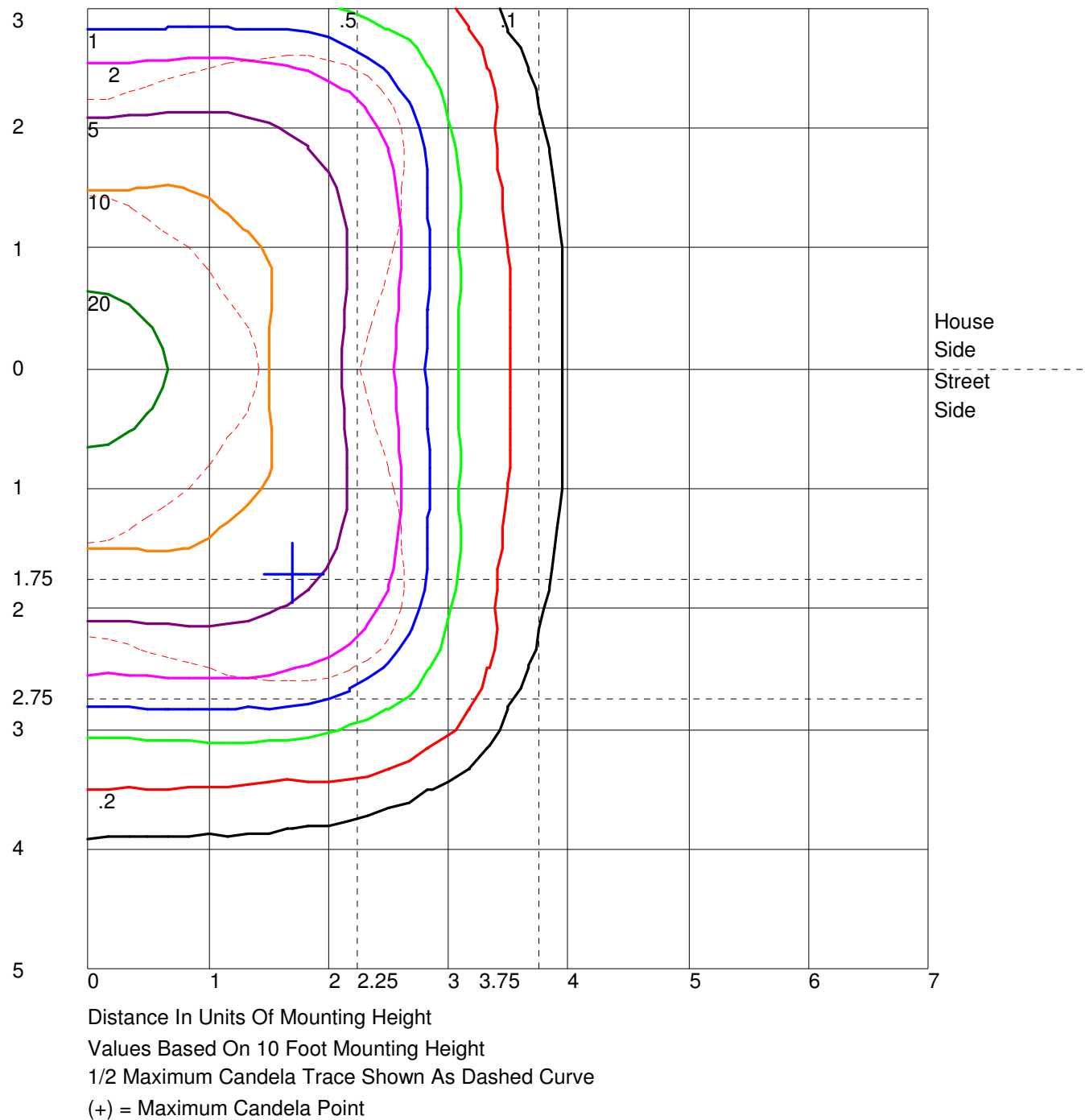
	Lumens	Percent Of Luminaire
Downward Street Side	11995.0	50.0
Downward House Side	11995.0	50.0
Downward Total	23990.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23990.0	100.0

POLAR GRAPH

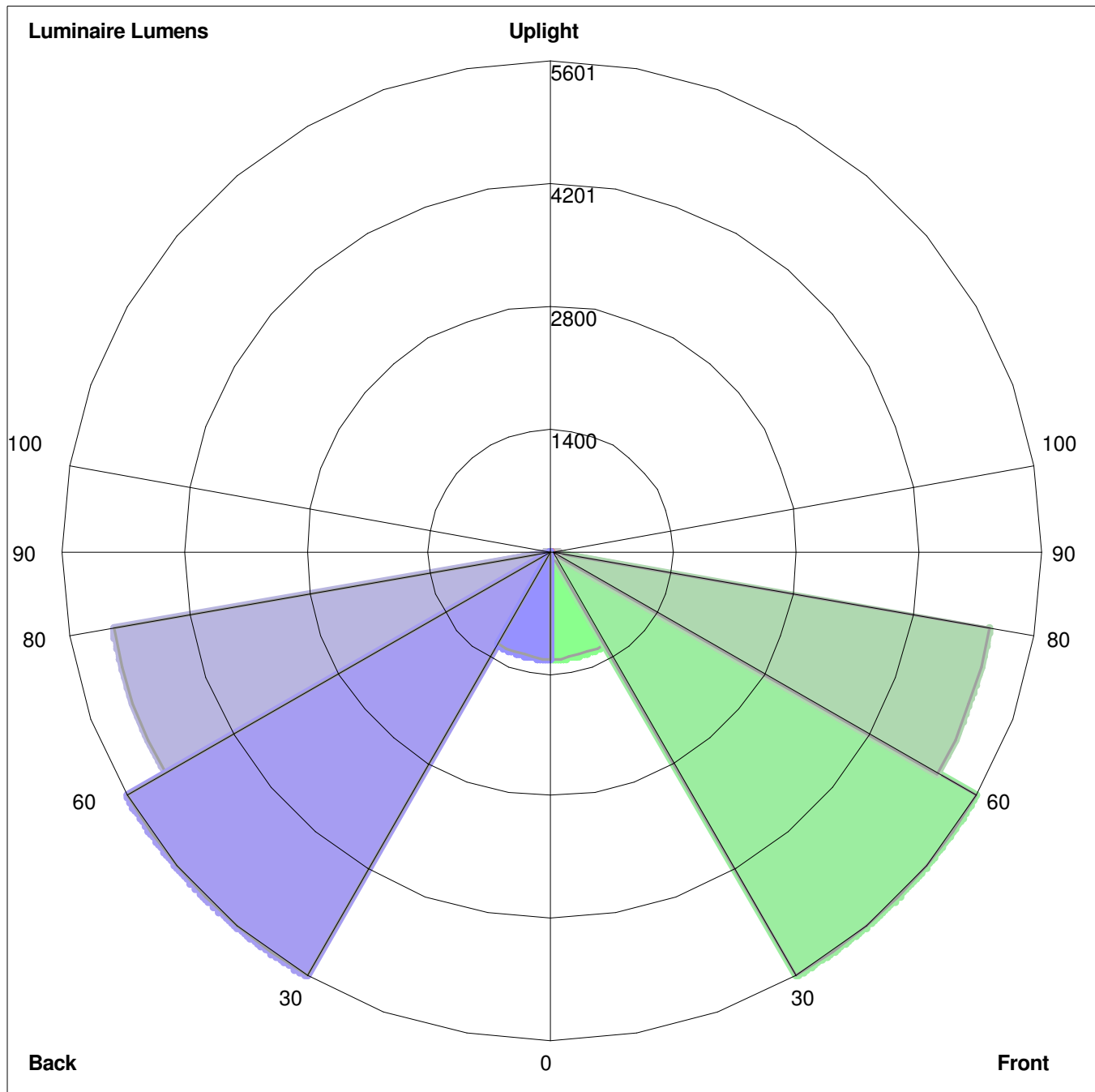


Maximum Candela = 11324.255 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1231.3, Medium=5600.7, High=5081.7, Very High=81.2
Back: Low=1231.3, Medium=5600.7, High=5081.7, Very High=81.2
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3