



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-750-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-L280-750-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] 5000K 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	27898
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13337.264
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	13337.264
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	515.995 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-750-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1392.3	N.A.	5.0
FM - Front-Medium (30-60)	6401.4	N.A.	22.9
FH - Front-High (60-80)	6085.8	N.A.	21.8
FVH - Front-Very High (80-90)	69.3	N.A.	0.2
BL - Back-Low (0-30)	1392.3	N.A.	5.0
BM - Back-Medium (30-60)	6401.4	N.A.	22.9
BH - Back-High (60-80)	6085.8	N.A.	21.8
BVH - Back-Very High (80-90)	69.3	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	27897.6	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	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722
2.5	2926.660	2926.660	2928.675	2928.675	2927.668	2926.660	2926.660	2929.683	2930.691	2935.730
5.0	2946.816	2947.824	2949.839	2946.816	2944.800	2945.808	2943.792	2947.824	2949.839	2955.886
7.5	2983.097	2985.112	2985.112	2984.105	2982.089	2983.097	2981.081	2989.144	2991.159	2997.206
10.0	3026.432	3027.440	3027.440	3027.440	3026.432	3029.456	3030.464	3038.526	3040.542	3047.596
12.5	3075.815	3076.822	3075.815	3073.799	3074.807	3078.838	3081.861	3089.924	3093.955	3100.002
15.0	3133.259	3133.259	3127.213	3127.213	3129.228	3131.244	3135.275	3141.322	3145.353	3152.408
17.5	3203.806	3198.767	3189.696	3188.689	3188.689	3188.689	3189.696	3195.743	3199.774	3204.813
20.0	3280.399	3271.328	3258.227	3258.227	3256.211	3254.196	3253.188	3257.219	3257.219	3263.266
22.5	3363.038	3350.945	3340.867	3335.828	3331.797	3330.789	3322.726	3326.758	3324.742	3327.765
25.0	3451.725	3441.647	3432.577	3427.538	3421.491	3415.444	3406.374	3407.382	3403.351	3404.358
27.5	3560.568	3547.466	3538.396	3533.357	3522.271	3519.248	3508.162	3507.154	3499.092	3505.139
30.0	3688.559	3674.450	3666.387	3659.333	3650.262	3644.216	3631.114	3631.114	3621.036	3627.083
32.5	3826.628	3813.526	3805.464	3807.480	3794.378	3800.425	3788.331	3786.316	3773.214	3775.230
35.0	4006.017	3990.900	3978.806	3984.853	3980.822	3984.853	3976.790	3978.806	3964.697	3975.783
37.5	4219.671	4205.562	4196.492	4209.593	4200.523	4219.671	4210.601	4218.663	4206.570	4222.694
40.0	4461.544	4446.427	4437.356	4456.505	4468.598	4491.778	4496.817	4510.926	4502.864	4523.020
42.5	4694.346	4687.292	4686.284	4720.549	4750.783	4795.126	4822.337	4844.509	4845.517	4871.720
45.0	4936.219	4932.188	4945.289	4988.625	5035.991	5115.608	5145.842	5191.193	5205.302	5227.474
47.5	5191.193	5197.240	5218.404	5273.833	5343.371	5435.081	5475.393	5537.877	5558.033	5589.275
50.0	5510.667	5521.752	5544.932	5614.470	5709.204	5833.164	5882.546	5948.053	5958.131	5989.373
52.5	5905.725	5916.811	5946.037	6050.849	6181.863	6348.151	6414.666	6447.923	6455.986	6484.204
55.0	6375.362	6391.486	6446.916	6604.133	6806.701	7021.363	7126.175	7153.385	7144.315	7186.643
57.5	6865.154	6896.396	7003.223	7245.096	7572.631	7877.996	8042.268	8029.166	8046.299	8067.463
60.0	7355.954	7393.243	7591.780	7966.682	8437.326	8879.752	9157.906	9160.929	9177.054	9169.999
62.5	7580.694	7638.139	7975.753	8456.475	9124.648	9829.102	10338.043	10497.276	10535.572	10517.432
65.0	7196.721	7293.470	7772.176	8427.248	9327.216	10294.707	11194.675	11705.631	11989.832	12111.776
67.0	6309.854	6422.728	6943.762	7784.270	8801.143	9981.281	11247.081	12209.533	12792.043	13193.149
67.5	5982.318	6099.224	6616.226	7504.101	8535.083	9771.658	11125.137	12224.650	12889.800	13337.264
70.0	3669.411	3780.269	4259.983	5143.826	6173.801	7613.951	9340.318	11057.614	12210.541	12742.661
72.5	1613.493	1667.914	1925.911	2309.884	2887.355	4006.017	5572.143	7424.484	8723.542	9384.661
75.0	721.587	736.704	797.172	882.835	1018.889	1338.362	1925.911	3042.557	4069.508	4693.338
77.5	410.176	413.199	458.550	493.823	544.214	603.674	681.275	854.617	1154.942	1362.550
80.0	264.044	262.029	277.146	310.403	350.715	379.942	407.152	442.426	489.792	515.995
82.5	158.225	156.209	161.248	175.358	207.607	223.732	235.826	248.927	262.029	261.021
85.0	53.414	58.453	64.499	72.562	93.726	97.757	102.796	104.812	97.757	92.718
87.5	6.047	7.055	10.078	11.086	15.117	16.125	17.133	18.140	17.133	15.117
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

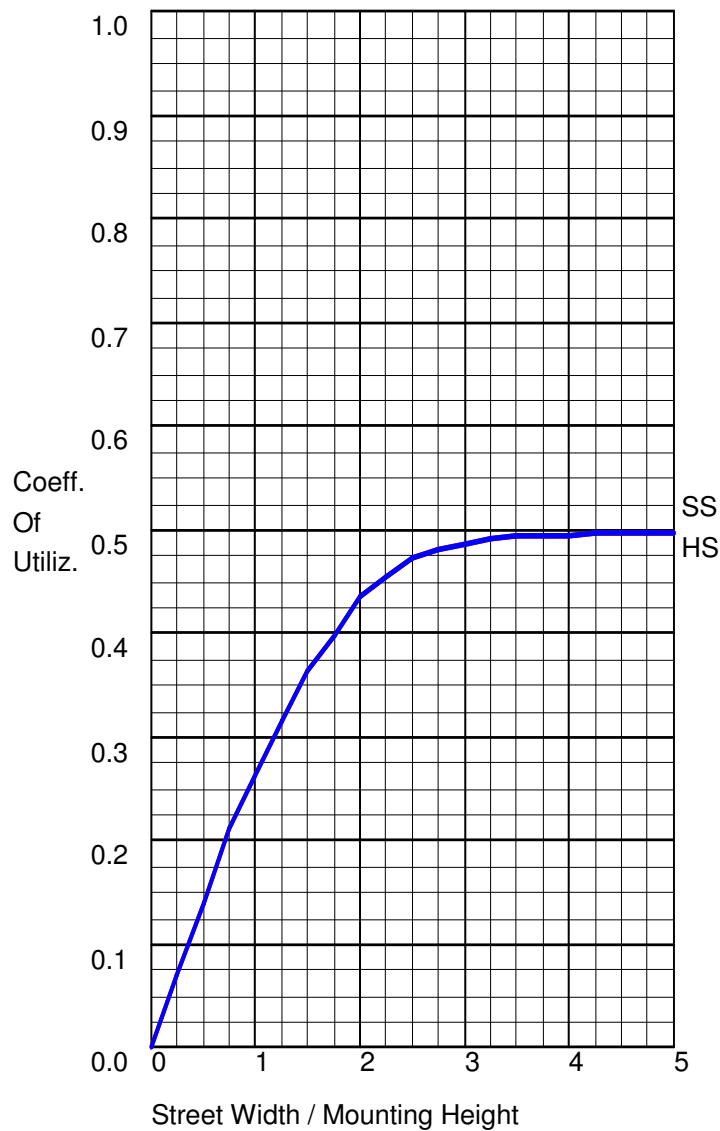
Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	
0.0	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722	2934.722	
2.5	2936.738	2938.753	2941.777	2944.800	2945.808	2947.824	2950.847	2949.839	2954.878	
5.0	2957.902	2958.910	2965.964	2969.995	2971.003	2974.027	2978.058	2977.050	2980.073	
7.5	3001.237	3004.261	3009.300	3015.346	3019.378	3022.401	3028.448	3026.432	3028.448	
10.0	3052.635	3056.666	3061.705	3067.752	3073.799	3075.815	3083.877	3083.877	3082.869	
12.5	3105.041	3111.088	3115.119	3120.158	3126.205	3131.244	3137.291	3140.314	3137.291	
15.0	3156.439	3161.478	3166.517	3171.556	3178.611	3184.657	3192.720	3198.767	3193.728	
17.5	3207.837	3212.876	3220.938	3226.985	3235.048	3242.102	3253.188	3261.250	3255.204	
20.0	3266.289	3270.321	3277.375	3288.461	3298.539	3307.609	3320.711	3331.797	3328.773	
22.5	3332.804	3336.836	3344.898	3353.968	3368.078	3381.179	3396.296	3411.413	3411.413	
25.0	3410.405	3413.429	3423.507	3433.585	3450.717	3464.827	3485.990	3500.100	3501.107	

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CANDELA TABULATION - (Cont.)

27.5	3505.139	3512.193	3521.264	3533.357	3551.498	3565.607	3582.740	3594.833	3602.896
30.0	3628.091	3633.130	3644.216	3654.294	3676.465	3689.567	3706.699	3711.738	3724.840
32.5	3782.285	3788.331	3803.448	3812.519	3831.667	3838.721	3852.831	3853.839	3867.948
35.0	3976.790	3986.869	3999.970	4005.009	4021.134	4024.157	4038.266	4035.243	4048.345
37.5	4220.679	4230.757	4241.843	4245.874	4259.983	4254.944	4257.968	4256.960	4266.030
40.0	4524.028	4517.981	4538.137	4535.113	4540.152	4513.949	4501.856	4497.825	4503.871
42.5	4862.649	4857.610	4869.704	4853.579	4826.368	4780.009	4752.799	4745.744	4751.791
45.0	5215.380	5202.279	5198.248	5163.982	5111.577	5049.093	5013.820	5005.757	5007.773
47.5	5574.158	5550.979	5529.815	5492.526	5419.964	5345.387	5303.059	5291.973	5288.950
50.0	5975.264	5957.123	5933.944	5906.733	5801.922	5706.180	5651.759	5635.634	5634.626
52.5	6494.282	6516.454	6487.228	6423.736	6285.667	6148.606	6074.028	6044.802	6030.693
55.0	7249.127	7268.275	7225.947	7094.933	6910.505	6692.819	6569.868	6519.477	6510.407
57.5	8177.313	8196.462	8147.079	7955.597	7684.498	7356.962	7178.581	7086.870	7070.746
60.0	9278.842	9307.060	9254.655	9029.915	8648.965	8177.313	7860.863	7701.630	7613.951
62.5	10628.290	10659.532	10597.048	10213.075	9607.386	8952.314	8450.428	8155.142	8033.197
65.0	12257.907	12151.080	11796.334	10962.881	9983.296	9083.328	8385.928	7866.910	7759.075
67.0	13208.266	12805.144	11928.356	10660.540	9410.864	8348.640	7518.210	6888.333	6813.756
67.5	13318.116	12818.246	11811.451	10427.737	9127.671	8036.221	7172.534	6529.555	6467.072
70.0	12397.992	11462.751	9935.929	8188.399	6745.225	5472.370	4566.355	4018.110	3961.673
72.5	9044.024	7809.465	6017.591	4198.507	3000.229	2329.033	1999.481	1804.975	1786.835
75.0	4215.640	3029.456	1948.083	1397.823	1145.872	978.577	897.952	861.672	847.562
77.5	1130.755	857.640	738.720	659.103	604.682	558.323	515.995	489.792	485.761
80.0	493.823	459.558	440.410	413.199	391.028	358.778	309.396	301.333	302.341
82.5	269.083	262.029	259.005	247.920	230.787	200.553	178.381	178.381	182.412
85.0	93.726	106.827	103.804	100.780	95.741	77.601	70.546	71.554	69.538
87.5	16.125	17.133	14.109	14.109	14.109	12.094	10.078	10.078	9.070
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

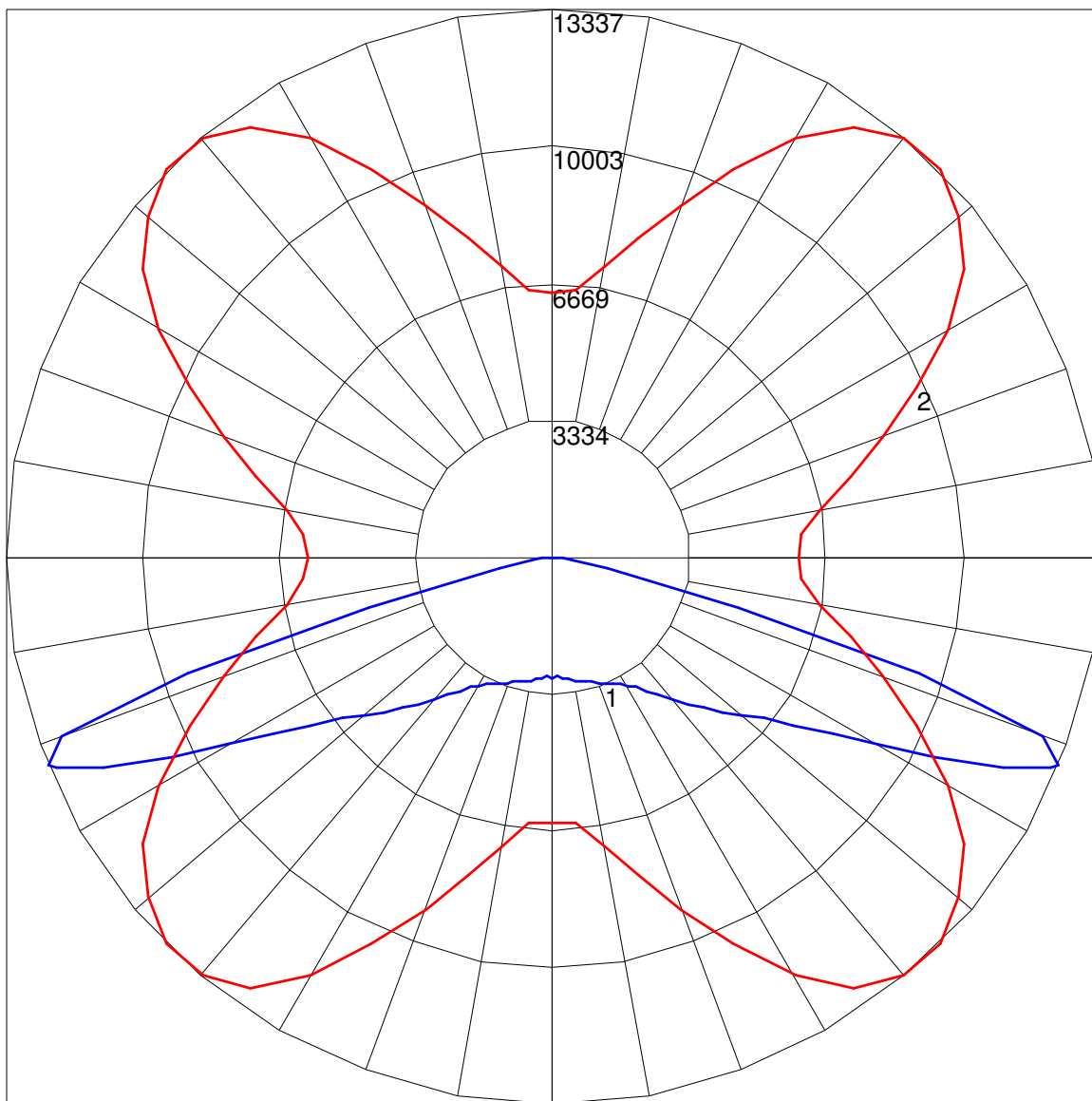
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

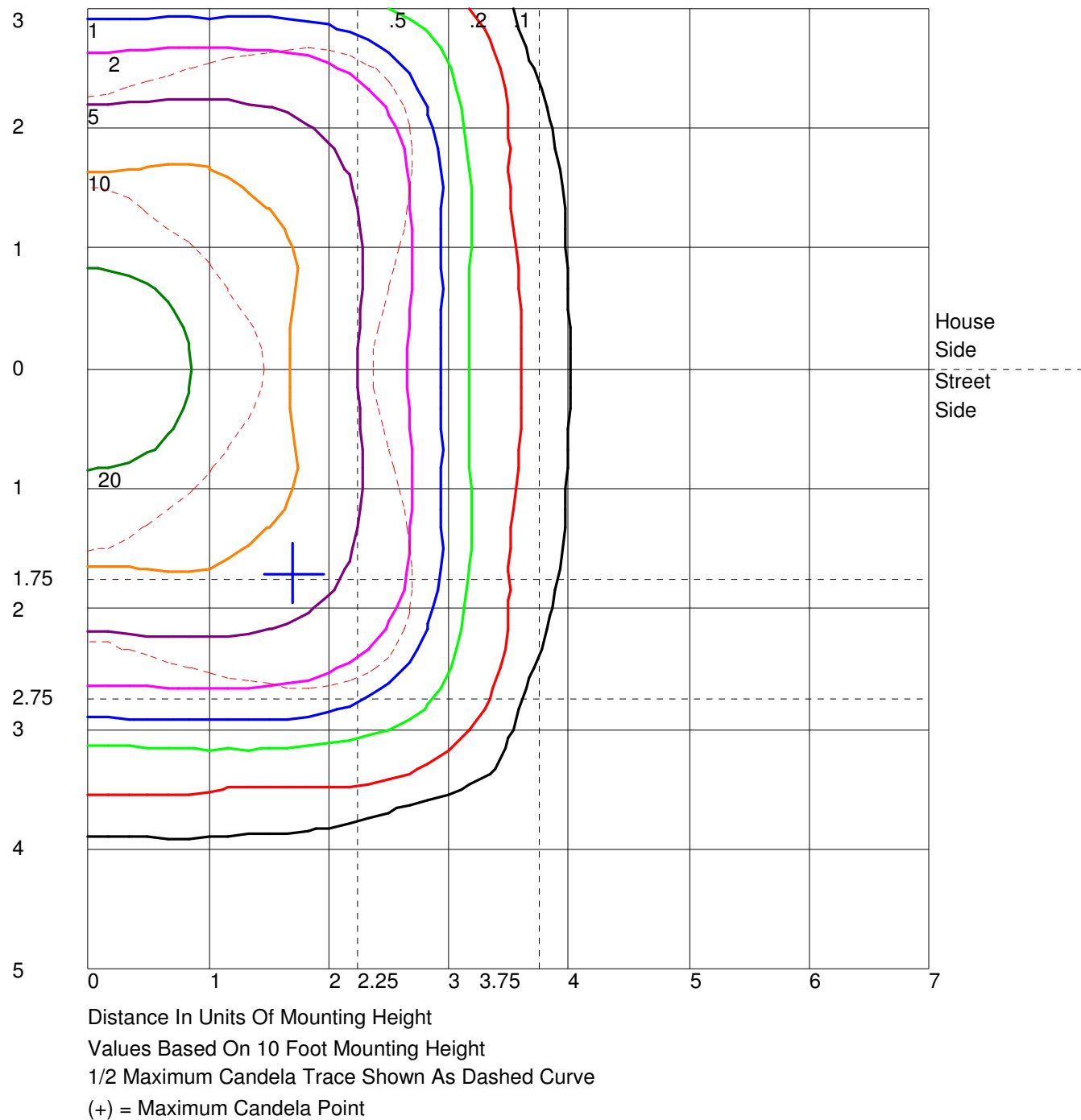
	Lumens	Percent Of Luminaire
Downward Street Side	13948.8	50.0
Downward House Side	13948.8	50.0
Downward Total	27897.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27897.6	100.0

POLAR GRAPH

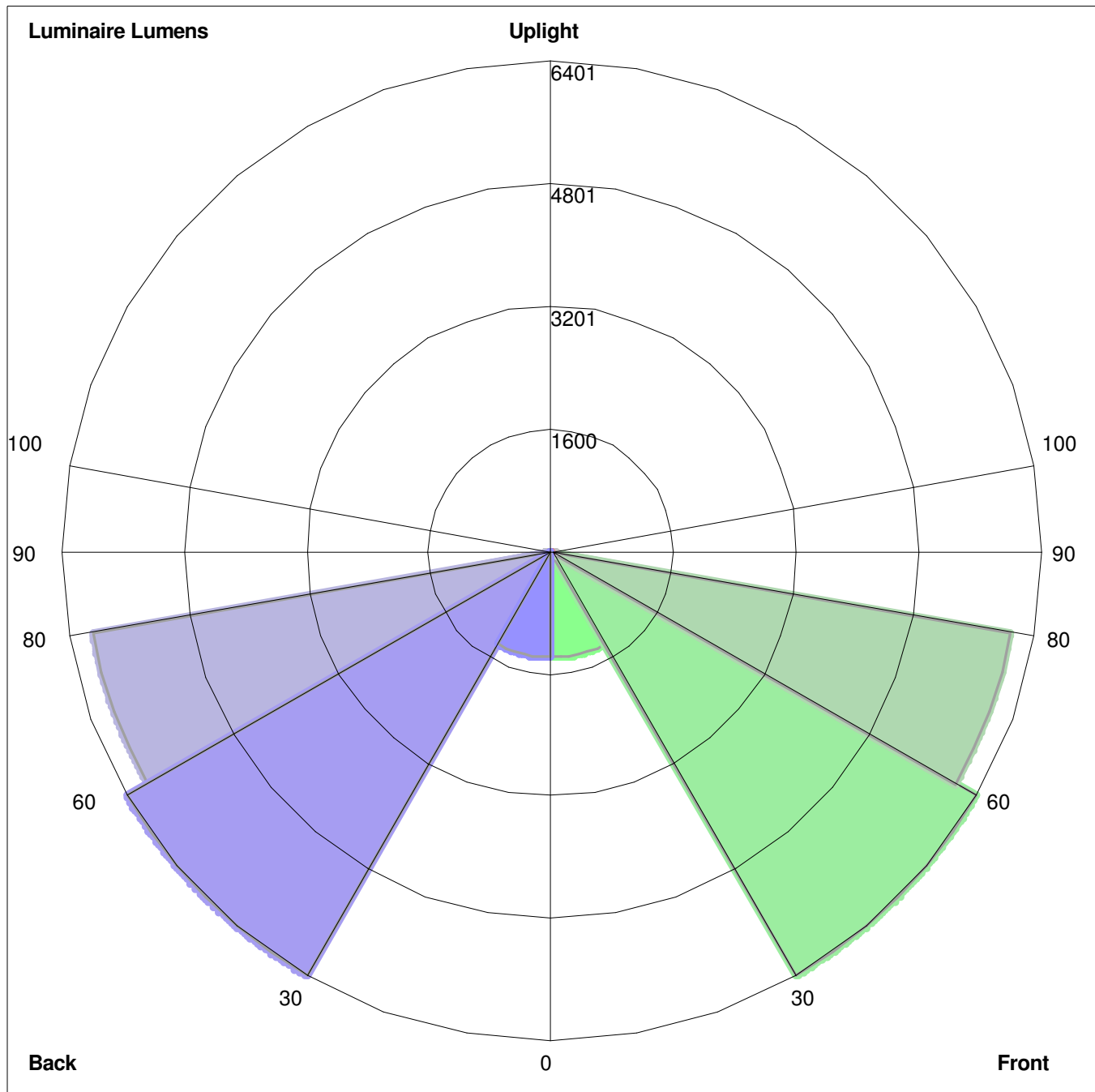


Maximum Candela = 13337.264 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1392.3, Medium=6401.4, High=6085.8, Very High=69.3
Back: Low=1392.3, Medium=6401.4, High=6085.8, Very High=69.3
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3