



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-740-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-L280-740-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] 4000K 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	27116
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12963.411
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	12963.411
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	501.531 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-740-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1353.3	N.A.	5.0
FM - Front-Medium (30-60)	6222.0	N.A.	22.9
FH - Front-High (60-80)	5915.2	N.A.	21.8
FVH - Front-Very High (80-90)	67.4	N.A.	0.2
BL - Back-Low (0-30)	1353.3	N.A.	5.0
BM - Back-Medium (30-60)	6222.0	N.A.	22.9
BH - Back-High (60-80)	5915.2	N.A.	21.8
BVH - Back-Very High (80-90)	67.4	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	27115.8	N.A.	100.0
BUG Rating	B5-U0-G3		

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CANDELA TABULATION

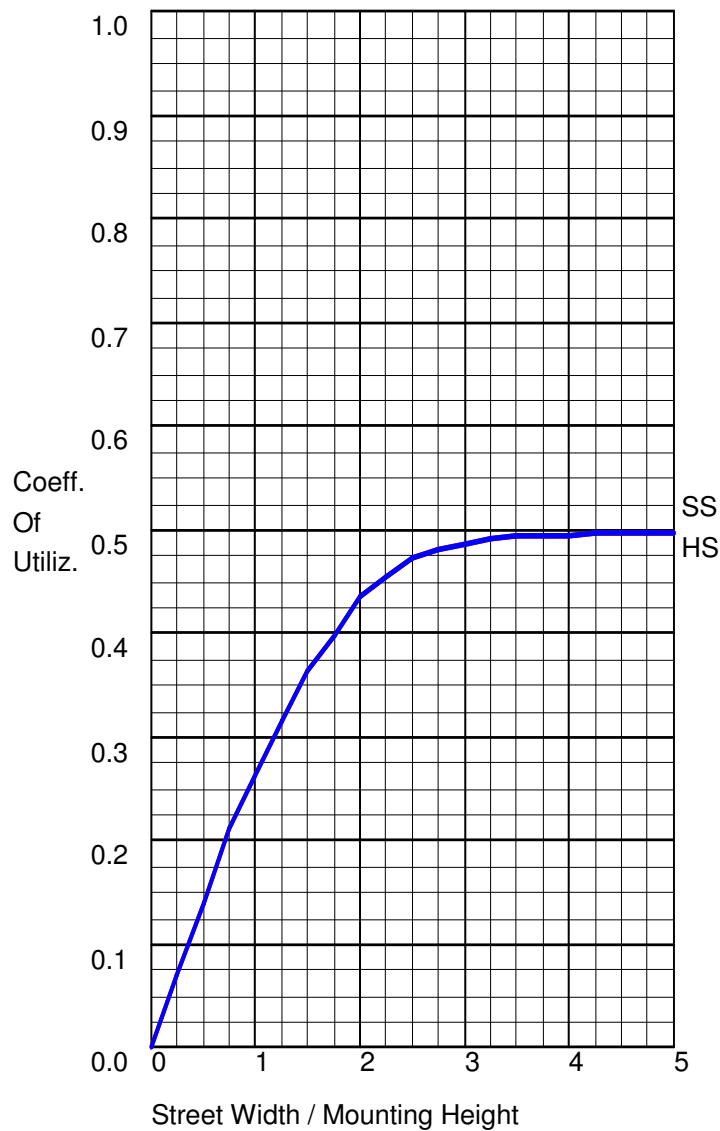
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460
2.5	2844.623	2844.623	2846.583	2846.583	2845.603	2844.623	2844.623	2847.562	2848.542	2853.439
5.0	2864.214	2865.194	2867.153	2864.214	2862.255	2863.235	2861.276	2865.194	2867.153	2873.030
7.5	2899.478	2901.438	2901.438	2900.458	2898.499	2899.478	2897.519	2905.356	2907.315	2913.192
10.0	2941.599	2942.579	2942.579	2942.579	2941.599	2944.538	2945.517	2953.354	2955.313	2962.170
12.5	2989.597	2990.577	2989.597	2987.638	2988.618	2992.536	2995.475	3003.311	3007.229	3013.107
15.0	3045.432	3045.432	3039.555	3039.555	3041.514	3043.473	3047.391	3053.268	3057.187	3064.043
17.5	3114.001	3109.103	3100.287	3099.307	3099.307	3099.307	3100.287	3106.164	3110.082	3114.980
20.0	3188.447	3179.631	3166.897	3166.897	3164.937	3162.978	3161.999	3165.917	3165.917	3171.794
22.5	3268.770	3257.015	3247.220	3242.322	3238.404	3237.424	3229.588	3233.506	3231.547	3234.486
25.0	3354.971	3345.175	3336.359	3331.462	3325.584	3319.707	3310.891	3311.870	3307.952	3308.932
27.5	3460.763	3448.028	3439.212	3434.315	3423.540	3420.601	3409.826	3408.846	3401.010	3406.887
30.0	3585.166	3571.452	3563.616	3556.759	3547.943	3542.066	3529.331	3529.331	3519.536	3525.413
32.5	3719.365	3706.631	3698.794	3700.753	3688.019	3693.896	3682.142	3680.183	3667.448	3669.407
35.0	3893.725	3879.032	3867.277	3873.155	3869.236	3873.155	3865.318	3867.277	3853.564	3864.339
37.5	4101.391	4087.677	4078.861	4091.595	4082.779	4101.391	4092.575	4100.411	4088.656	4104.329
40.0	4336.483	4321.790	4312.974	4331.586	4343.340	4365.870	4370.768	4384.482	4376.645	4396.236
42.5	4562.760	4555.903	4554.924	4588.229	4617.615	4660.716	4687.164	4708.714	4709.693	4735.162
45.0	4797.853	4793.935	4806.669	4848.790	4894.829	4972.214	5001.600	5045.680	5059.394	5080.944
47.5	5045.680	5051.558	5072.128	5126.004	5193.593	5282.732	5321.914	5382.647	5402.238	5432.604
50.0	5356.199	5366.974	5389.503	5457.093	5549.171	5669.656	5717.654	5781.325	5791.120	5821.487
52.5	5740.184	5750.959	5779.366	5881.239	6008.581	6170.208	6234.858	6267.183	6275.020	6302.447
55.0	6196.656	6212.328	6266.204	6419.014	6615.904	6824.549	6926.423	6952.871	6944.055	6985.196
57.5	6672.719	6703.085	6806.917	7042.010	7360.365	7657.170	7816.837	7804.103	7820.755	7841.326
60.0	7149.761	7186.005	7378.977	7743.371	8200.822	8630.846	8901.203	8904.142	8919.814	8912.957
62.5	7368.202	7424.036	7752.187	8219.434	8868.878	9553.585	10048.260	10203.029	10240.253	10222.621
65.0	6994.992	7089.029	7554.317	8191.027	9065.768	10006.139	10880.881	11377.514	11653.748	11772.274
67.0	6132.985	6242.695	6749.124	7566.071	8554.441	9701.498	10931.817	11867.291	12433.473	12823.335
67.5	5814.630	5928.258	6430.769	7293.756	8295.839	9497.751	10813.291	11881.984	12528.490	12963.411
70.0	3566.554	3674.305	4140.573	4999.641	6000.745	7400.527	9078.502	10747.661	11868.270	12385.475
72.5	1568.265	1621.161	1871.927	2245.137	2806.421	3893.725	5415.951	7216.371	8479.015	9121.602
75.0	701.360	716.054	774.827	858.089	990.329	1300.847	1871.927	2957.272	3955.437	4561.781
77.5	398.678	401.617	445.697	479.981	528.959	586.753	662.178	830.661	1122.568	1324.356
80.0	256.643	254.684	269.377	301.702	340.885	369.292	395.740	430.024	476.063	501.531
82.5	153.790	151.831	156.729	170.442	201.788	217.461	229.216	241.950	254.684	253.704
85.0	51.916	56.814	62.691	70.528	91.098	95.017	99.914	101.874	95.017	90.119
87.5	5.877	6.857	9.796	10.775	14.693	15.673	16.652	17.632	16.652	14.693
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	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460	2852.460
2.5	2854.419	2856.378	2859.317	2862.255	2863.235	2865.194	2868.133	2867.153	2872.051
5.0	2874.990	2875.969	2882.826	2886.744	2887.724	2890.662	2894.581	2893.601	2896.540
7.5	2917.110	2920.049	2924.947	2930.824	2934.742	2937.681	2943.558	2941.599	2943.558
10.0	2967.068	2970.986	2975.884	2981.761	2987.638	2989.597	2997.434	2997.434	2996.454
12.5	3018.004	3023.882	3027.800	3032.698	3038.575	3043.473	3049.350	3052.289	3049.350
15.0	3067.962	3072.859	3077.757	3082.655	3089.512	3095.389	3103.226	3109.103	3104.205
17.5	3117.919	3122.817	3130.653	3136.530	3144.367	3151.224	3161.999	3169.835	3163.958
20.0	3174.733	3178.651	3185.508	3196.283	3206.079	3214.895	3227.629	3238.404	3235.465
22.5	3239.383	3243.302	3251.138	3259.954	3273.668	3286.402	3301.095	3315.789	3315.789
25.0	3314.809	3317.748	3327.543	3337.339	3353.991	3367.705	3388.276	3401.989	3402.969

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27.5	3406.887	3413.744	3422.560	3434.315	3451.947	3465.660	3482.313	3494.067	3501.904
30.0	3526.393	3531.290	3542.066	3551.861	3573.411	3586.145	3602.798	3607.696	3620.430
32.5	3676.264	3682.142	3696.835	3705.651	3724.262	3731.119	3744.833	3745.813	3759.526
35.0	3865.318	3875.114	3887.848	3892.746	3908.419	3911.357	3925.071	3922.132	3934.866
37.5	4102.370	4112.166	4122.941	4126.859	4140.573	4135.675	4138.614	4137.634	4146.450
40.0	4397.216	4391.338	4410.930	4407.991	4412.889	4387.420	4375.666	4371.747	4377.625
42.5	4726.346	4721.448	4733.203	4717.530	4691.082	4646.022	4619.574	4612.718	4618.595
45.0	5069.189	5056.455	5052.537	5019.232	4968.295	4907.563	4873.279	4865.442	4867.401
47.5	5417.911	5395.381	5374.810	5338.567	5268.039	5195.552	5154.411	5143.636	5140.697
50.0	5807.773	5790.141	5767.611	5741.163	5639.290	5546.232	5493.336	5477.663	5476.684
52.5	6312.243	6333.793	6305.386	6243.674	6109.475	5976.256	5903.769	5875.362	5861.648
55.0	7045.928	7064.540	7023.399	6896.057	6716.798	6505.215	6385.709	6336.732	6327.916
57.5	7948.097	7966.709	7918.711	7732.595	7469.096	7150.741	6977.360	6888.220	6872.548
60.0	9018.749	9046.177	8995.240	8776.800	8406.528	7948.097	7640.517	7485.748	7400.527
62.5	10330.371	10360.738	10300.005	9926.795	9338.084	8701.374	8213.556	7926.547	7808.021
65.0	11914.309	11810.477	11465.674	10655.583	9703.457	8828.716	8150.865	7646.395	7541.583
67.0	12838.028	12446.207	11593.995	10361.717	9147.071	8114.621	7307.469	6695.248	6622.761
67.5	12944.800	12458.941	11480.367	10135.440	8871.816	7810.960	6971.482	6346.527	6285.795
70.0	12050.467	11141.442	9657.418	7958.872	6556.152	5318.976	4438.357	3905.480	3850.625
72.5	8790.513	7590.560	5848.914	4080.820	2916.131	2263.748	1943.434	1754.380	1736.748
75.0	4097.472	2944.538	1893.477	1358.641	1113.752	951.146	872.782	837.518	823.805
77.5	1099.059	833.600	718.013	640.628	587.732	542.673	501.531	476.063	472.145
80.0	479.981	446.676	428.065	401.617	380.067	348.721	300.723	292.887	293.866
82.5	261.541	254.684	251.745	240.970	224.318	194.931	173.381	173.381	177.299
85.0	91.098	103.833	100.894	97.955	93.058	75.426	68.569	69.548	67.589
87.5	15.673	16.652	13.714	13.714	13.714	11.755	9.796	9.796	8.816
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

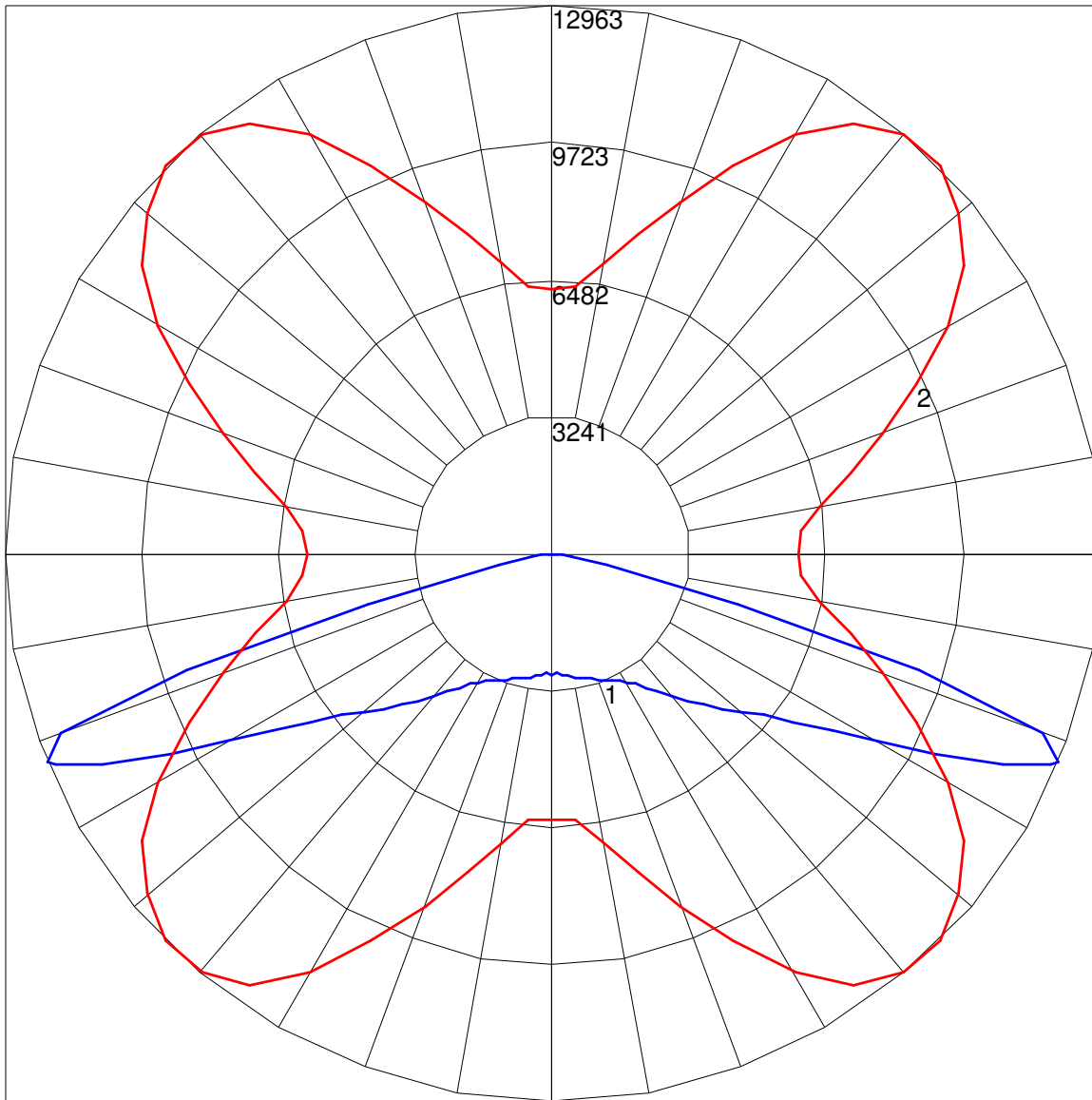
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

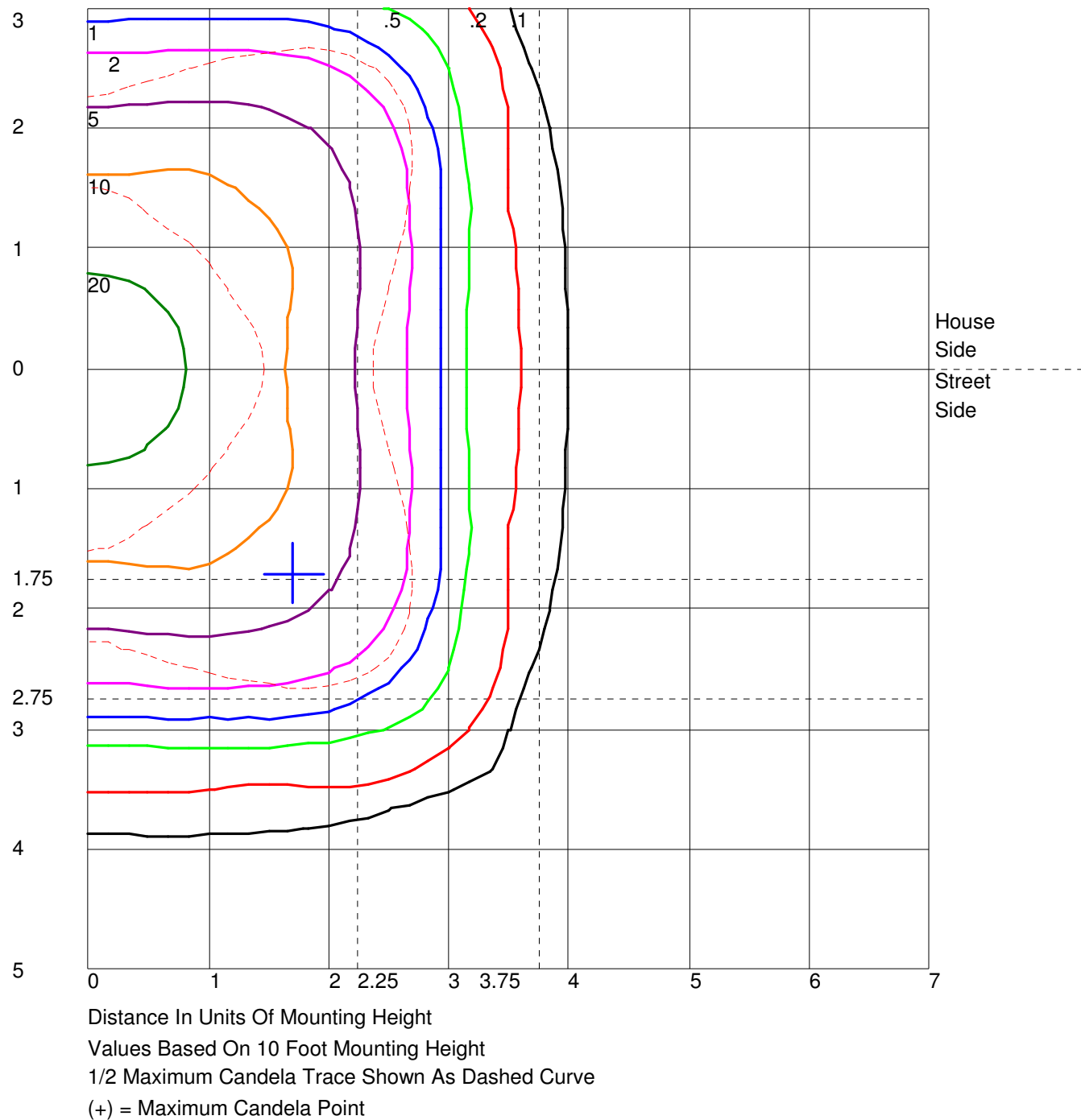
	Lumens	Percent Of Luminaire
Downward Street Side	13557.8	50.0
Downward House Side	13557.8	50.0
Downward Total	27115.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27115.6	100.0

POLAR GRAPH

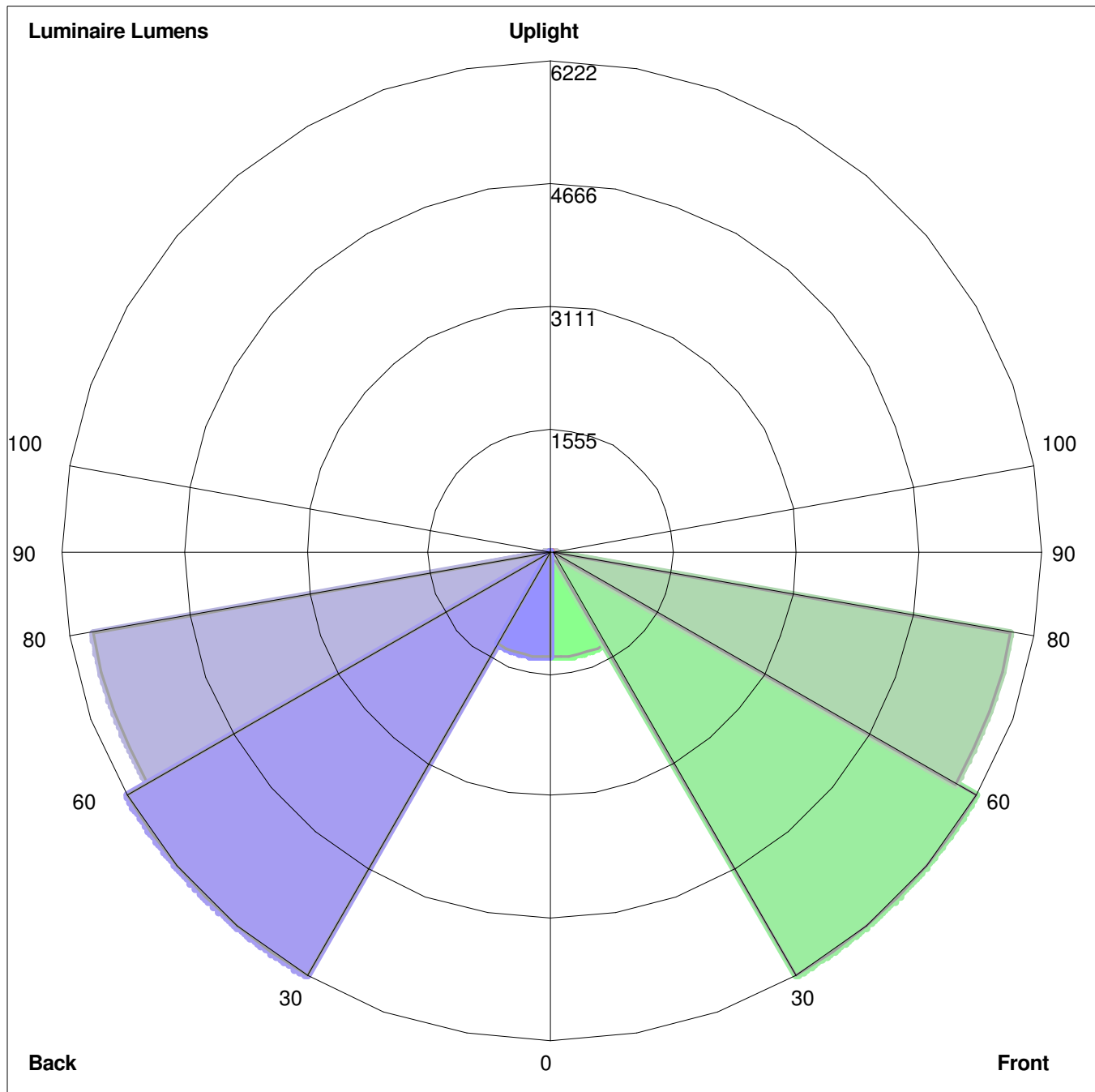


Maximum Candela = 12963.411 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1353.3, Medium= 6222.0, High=5915.2, Very High=67.4
Back: Low=1353.3, Medium= 6222.0, High=5915.2, Very High=67.4
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3