



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-750-T4-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011773
[TESTLAB] ATAL-LABS
[ISSUEDATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-750-T4-F-S-xxx-DIM-UNV
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE IV
[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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26359
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	25110.809
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	25110.809
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1777.519 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-750-T4-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2013.6	N.A.	7.6
FM - Front-Medium (30-60)	8115.4	N.A.	30.8
FH - Front-High (60-80)	9445.8	N.A.	35.8
FVH - Front-Very High (80-90)	166.1	N.A.	0.6
BL - Back-Low (0-30)	1336.0	N.A.	5.1
BM - Back-Medium (30-60)	3184.4	N.A.	12.1
BH - Back-High (60-80)	1973.6	N.A.	7.5
BVH - Back-Very High (80-90)	124.4	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	26359.3	N.A.	100.0
BUG Rating	B3-U0-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles										
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	
0.0	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	
2.5	4449.978	4440.709	4453.067	4433.500	4391.276	4384.067	4364.500	4336.694	4282.112	4237.829	
5.0	4815.574	4819.694	4826.903	4793.947	4738.335	4665.216	4646.679	4550.903	4422.172	4292.411	
7.5	5020.514	5027.723	5032.872	5025.663	4969.022	4900.022	4875.305	4732.156	4549.873	4353.172	
10.0	5065.827	5076.126	5081.275	5093.633	5078.186	5016.395	4996.828	4846.470	4661.097	4415.993	
12.5	5054.499	5062.738	5060.678	5082.305	5091.574	5039.051	5021.544	4902.081	4745.544	4477.784	
15.0	5025.663	5028.753	5018.454	5040.081	5064.798	5020.514	5001.977	4929.887	4810.425	4550.903	
17.5	4990.649	4987.559	4976.231	4995.798	5010.216	4986.529	4977.260	4955.634	4872.216	4614.754	
20.0	4916.499	4911.350	4921.649	4954.604	4956.663	4940.186	4939.156	4976.231	4873.246	4648.739	
22.5	4814.544	4811.455	4881.485	4917.529	4897.962	4893.843	4906.201	4930.917	4860.888	4696.112	
25.0	4740.395	4747.604	4874.276	4863.977	4845.440	4871.186	4892.813	4886.634	4878.395	4754.813	
27.5	4735.246	4762.022	4861.917	4841.320	4835.141	4885.604	4911.350	4900.022	4920.619	4838.231	
30.0	4822.783	4831.022	4867.067	4862.947	4894.873	4945.335	4965.932	4982.410	5005.066	4955.634	
32.5	4953.574	4920.619	4938.126	4988.589	5031.842	5060.678	5080.245	5120.409	5135.857	5100.842	
35.0	5127.618	5075.096	5076.126	5196.618	5215.156	5232.663	5235.753	5293.424	5293.424	5279.006	
37.5	5413.916	5374.782	5343.887	5452.021	5480.857	5465.409	5446.872	5467.469	5461.290	5466.439	
40.0	5783.632	5747.588	5704.334	5784.662	5834.095	5758.916	5733.170	5631.215	5639.453	5680.647	
42.5	6169.826	6132.751	6115.244	6200.721	6273.840	6129.662	6064.781	5823.796	5846.453	5914.423	
45.0	6628.109	6612.661	6604.422	6690.929	6770.228	6586.915	6489.079	6191.453	6107.005	6199.691	
47.5	7175.988	7134.794	7156.421	7293.391	7243.958	7121.406	7027.690	6697.108	6469.512	6547.780	
50.0	7747.554	7686.793	7696.062	7911.300	7786.689	7706.360	7635.301	7345.913	6967.959	6960.750	
52.5	8510.673	8494.195	8291.315	8458.150	8375.762	8336.628	8323.240	8160.524	7587.928	7413.883	
55.0	9802.103	9638.357	9208.910	9095.627	9034.866	9102.836	9196.552	9057.522	8302.643	7963.823	
57.5	11115.161	11102.803	10550.804	9996.745	9752.671	10075.013	10307.759	99939.073	9060.612	8511.702	
60.0	11763.966	11766.025	11801.040	11191.370	10613.624	11301.564	11709.384	10939.057	9748.551	8881.418	
62.5	12307.726	12431.308	12771.158	12628.009	11815.458	13033.770	13682.575	12013.189	10132.685	8958.657	
65.0	13044.068	13255.187	14348.887	14339.618	13538.396	15875.123	16643.391	13242.829	99843.297	8662.060	
67.5	12395.263	12644.487	15289.139	16814.345	16032.690	19992.460	20654.653	13960.634	8740.329	7899.972	
70.0	10038.969	10089.431	13876.186	18472.402	18495.059	23996.513	24176.736	12432.338	6776.407	6019.468	
72.0	7315.018	7439.630	11253.161	17410.628	18489.910	25110.809	24688.571	18686.777	4791.888	3505.606	
72.5	6430.377	6554.989	10374.699	16825.674	18173.746	24876.004	24437.288	7572.480	4304.769	2915.503	
75.0	2523.130	2485.026	4546.784	10452.968	13551.784	19121.207	15207.781	13044.234	2564.324	1349.102	
77.5	1638.490	1595.236	1458.266	2990.682	5091.574	6015.348	3061.741	1214.192	1407.804	865.073	
80.0	1064.864	1193.595	885.670	1357.341	1777.519	1475.774	1047.356	692.059	815.640	569.507	
82.5	541.701	651.894	521.104	680.730	744.581	582.895	563.327	396.492	427.387	320.283	
85.0	228.626	304.835	213.179	258.492	285.268	210.089	210.089	164.776	177.134	131.821	
87.5	56.642	82.388	32.955	32.955	49.433	30.895	25.746	27.806	27.806	20.597	
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>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>	
0.0	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	4141.023	
2.5	4184.277	4146.172	4118.366	4065.844	4003.023	3949.471	3891.800	3858.844	3810.441	3794.994	
5.0	4155.441	4079.232	4012.292	3887.680	3765.128	3665.233	3571.517	3518.994	3464.412	3444.845	
7.5	4142.053	4032.889	3927.844	3739.382	3572.546	3446.905	3355.248	3308.905	3278.010	3273.890	
10.0	4132.784	3988.605	3847.516	3600.352	3408.800	3292.427	3225.487	3219.308	3233.726	3263.592	
12.5	4128.665	3946.382	3767.188	3465.442	3269.771	3183.263	3166.786	3207.980	3282.129	3365.547	
15.0	4137.933	3913.426	3695.098	3341.860	3151.338	3099.846	3135.890	3228.577	3354.218	3476.770	
17.5	4144.113	3882.531	3628.158	3230.636	3052.473	3033.935	3095.726	3219.308	3345.980	3468.532	
20.0	4149.262	3852.665	3568.427	3132.801	2971.115	2975.234	3035.995	3133.831	3238.875	3364.517	
22.5	4164.710	3831.038	3511.785	3042.174	2904.174	2920.652	2948.458	3006.129	3097.786	3219.308	
25.0	4194.575	3823.830	3463.382	2968.025	2851.652	2864.010	2839.294	2875.339	2941.249	3061.741	

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CANDELA TABULATION - (Cont.)

27.5	4250.187	3834.128	3430.427	2913.443	2812.518	2792.951	2737.339	2748.667	2807.369	2910.353
30.0	4333.605	3869.143	3419.099	2874.309	2782.652	2714.682	2646.712	2641.563	2682.757	2778.533
32.5	4448.948	3928.874	3424.248	2846.503	2761.025	2642.593	2564.324	2540.638	2577.712	2702.324
35.0	4595.186	4011.262	3446.905	2830.025	2739.398	2581.832	2488.115	2443.832	2520.041	2662.160
37.5	4778.500	4119.396	3492.218	2834.145	2702.324	2525.190	2401.608	2384.101	2482.966	2638.473
40.0	5019.484	4280.053	3572.546	2865.040	2659.070	2475.757	2324.369	2350.116	2446.921	2633.324
42.5	5318.141	4507.649	3698.188	2903.144	2629.205	2440.742	2282.146	2313.041	2421.175	2630.234
45.0	5673.438	4791.888	3884.591	2936.100	2616.846	2407.787	2268.757	2274.937	2398.518	2608.608
47.5	6094.647	5162.633	4126.605	2965.965	2612.727	2375.862	2245.071	2237.862	2365.563	2482.966
50.0	6577.646	5613.707	4412.903	3017.458	2616.846	2339.817	2207.996	2197.698	2230.653	2425.295
52.5	7097.720	6075.080	4733.186	3123.532	2638.473	2323.339	2167.832	2149.295	2110.161	2396.459
55.0	7706.360	6798.034	5318.141	3239.905	2664.219	2357.324	2172.982	2061.758	2060.728	2335.698
57.5	8650.732	7876.286	5866.020	3343.920	2770.294	2492.235	2294.504	2101.922	2107.071	2271.847
60.0	9685.730	8455.061	6249.124	3543.711	2892.846	2574.623	2398.518	2206.967	2272.877	2308.922
62.5	9681.611	8476.688	6646.646	3689.949	2891.816	2551.966	2359.384	2174.011	2401.608	2284.205
65.0	9015.299	8124.479	6450.974	3586.964	2874.309	2550.936	2265.668	1970.101	2265.668	2103.982
67.5	6703.287	5857.781	4387.157	2698.205	2631.264	2526.220	2171.952	1773.400	2015.415	1921.698
70.0	3226.517	2567.414	1864.027	1479.893	1872.266	2317.160	2122.519	1595.236	1781.639	1832.101
72.0	1634.370	1287.311	1080.312	969.088	1195.655	1952.594	2094.713	1431.490	1536.535	1677.624
72.5	1522.117	1159.610	991.745	906.267	1071.043	1900.072	2075.146	1388.237	1468.565	1627.162
75.0	907.297	763.118	681.760	658.074	718.835	1252.296	1785.758	1176.088	1141.073	1331.595
77.5	606.581	515.954	480.940	468.581	515.954	735.312	1350.132	1007.192	899.058	1023.670
80.0	403.701	339.850	321.313	322.343	357.358	469.611	861.984	778.566	694.118	783.715
82.5	228.626	184.343	179.194	191.552	217.298	276.000	464.462	568.477	507.716	585.984
85.0	93.716	71.060	69.000	77.239	95.776	124.612	219.358	272.910	246.134	270.850
87.5	14.418	10.298	9.269	12.358	19.567	27.806	57.672	62.821	57.672	53.552
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

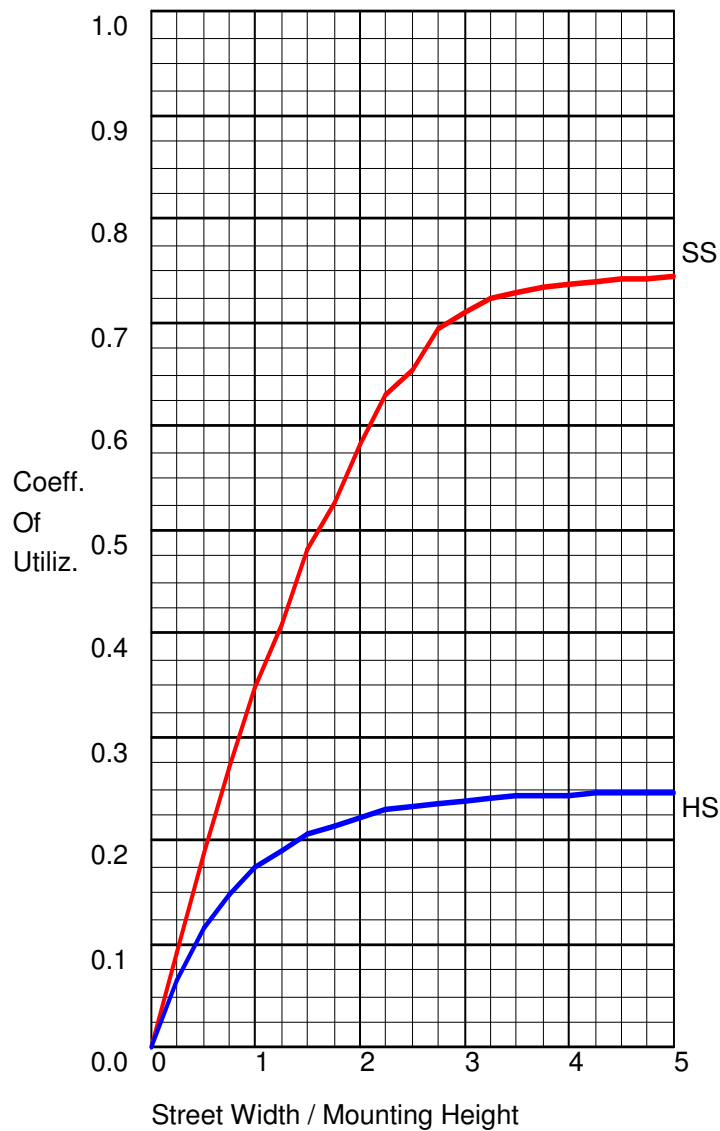
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	4141.023	4141.023
2.5	3784.695	3797.053
5.0	3433.517	3441.756
7.5	3270.801	3272.860
10.0	3281.099	3279.039
12.5	3410.860	3408.800
15.0	3540.621	3541.651
17.5	3535.472	3543.711
20.0	3441.756	3455.144
22.5	3301.696	3320.233
25.0	3151.338	3166.786
27.5	3000.980	3016.428
30.0	2880.488	2893.876
32.5	2820.757	2838.264
35.0	2785.742	2804.279
37.5	2785.742	2798.100
40.0	2802.219	2805.309
42.5	2799.130	2803.249
45.0	2731.160	2729.100
47.5	2651.861	2664.219
50.0	2674.518	2687.906
52.5	2682.757	2689.966
55.0	2630.234	2640.533
57.5	2558.145	2572.563
60.0	2480.906	2494.294

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-750-T4-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	2345.996	2363.504
65.0	2155.474	2197.698
67.5	1954.654	2023.653
70.0	1741.475	1835.191
72.0	1578.759	1675.564
72.5	1535.505	1629.221
75.0	1279.073	1357.341
77.5	1064.864	1168.879
80.0	985.566	1073.103
82.5	547.880	591.133
85.0	193.612	185.373
87.5	25.746	6.179
90.0	0.000	0.000

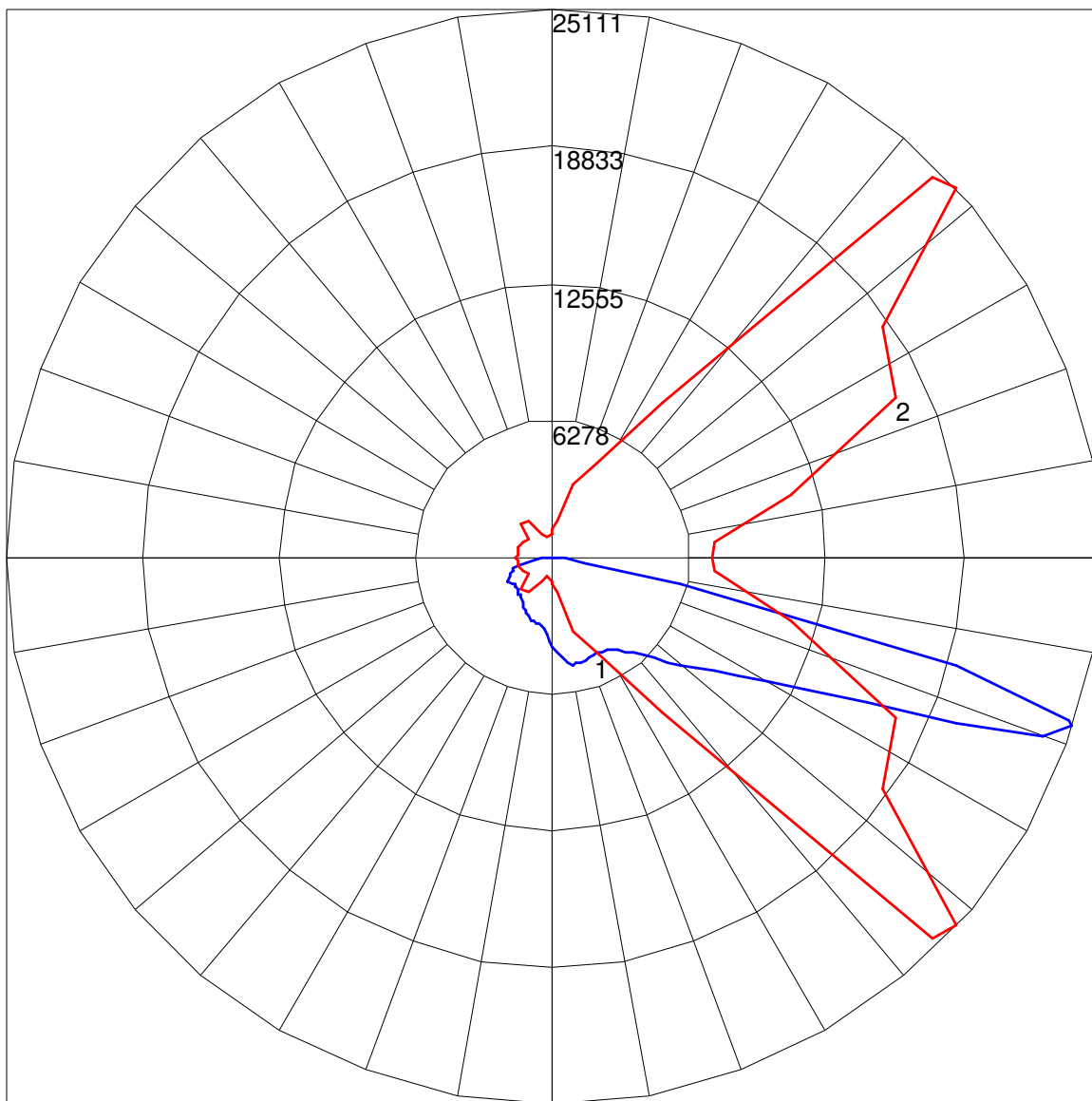
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

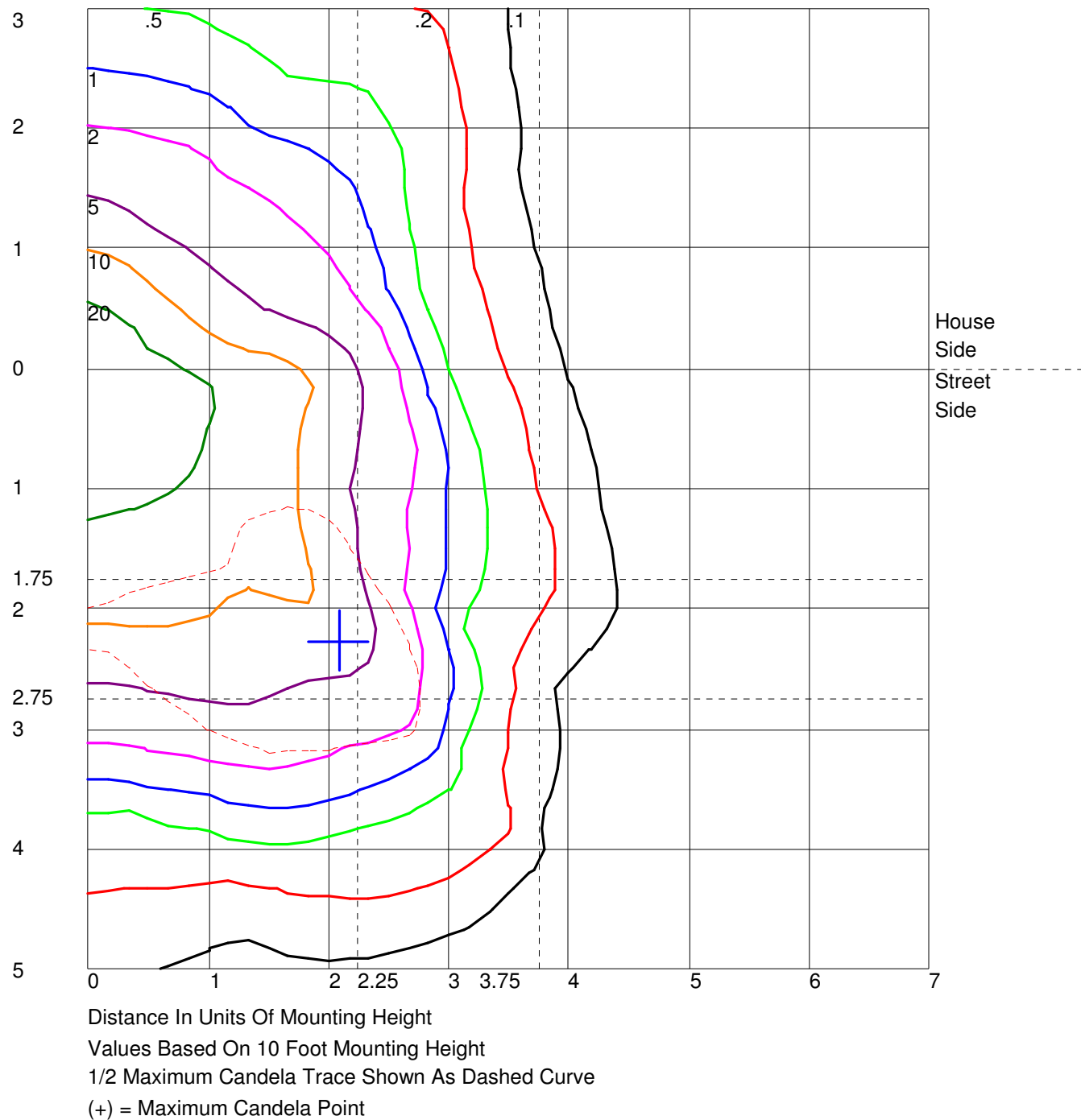
	Lumens	Percent Of Luminaire
Downward Street Side	19740.9	74.9
Downward House Side	6618.4	25.1
Downward Total	26359.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	26359.3	100.0

POLAR GRAPH

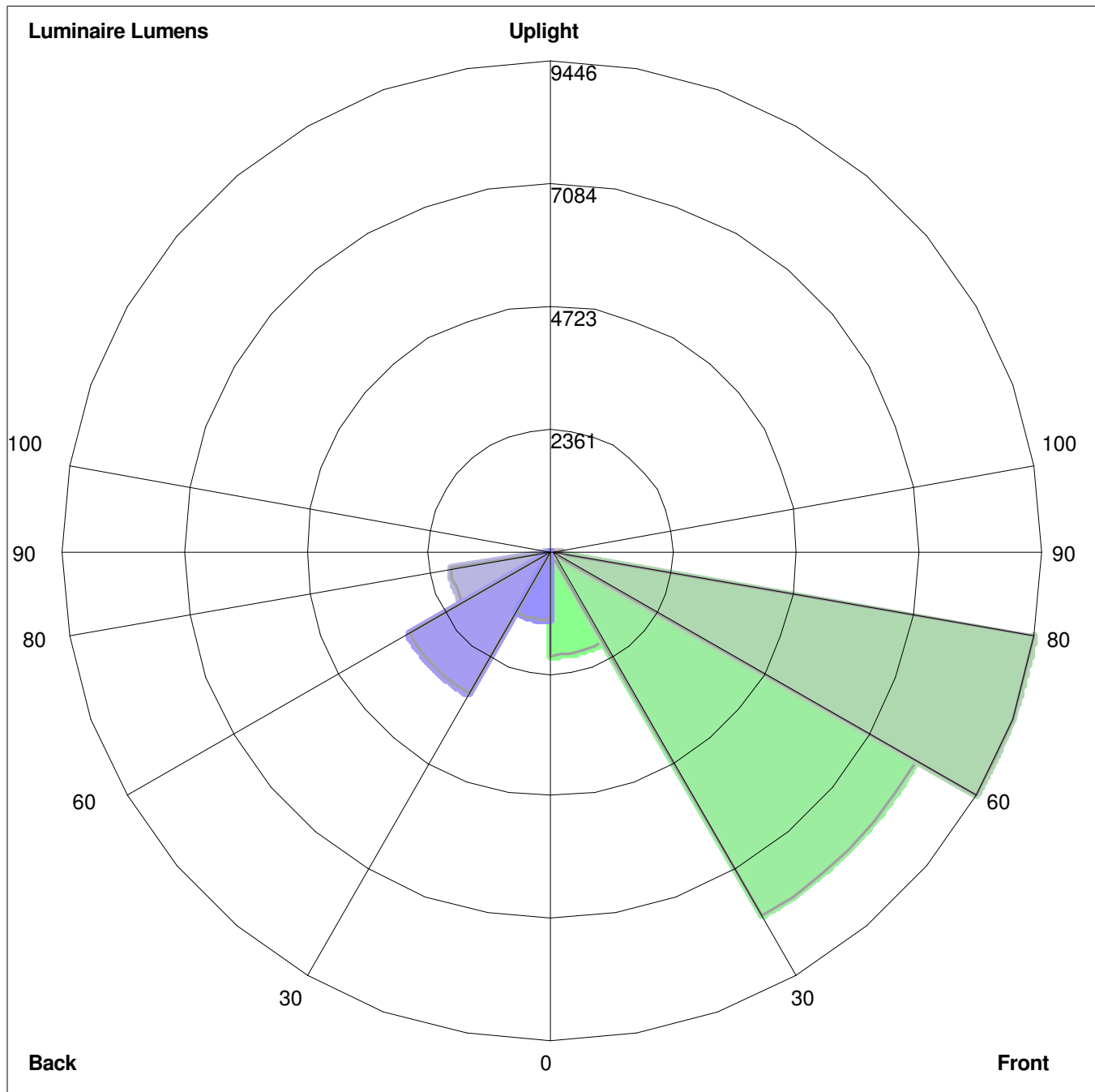


Maximum Candela = 25110.809 Located At Horizontal Angle = 42.5, Vertical Angle = 72
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2013.6, Medium=8115.4, High=9445.8, Very High=166.1
Back: Low= 1336.0, Medium=3184.4, High=1973.6, Very High=124.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4