



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] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-750-T5-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE V OPTICS, CLEAR LENS, (2) LED MODULES
[MORE] AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[_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	31148
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14891.109
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	14891.109
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	576.111 (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)	1554.5	N.A.	5.0
FM - Front-Medium (30-60)	7147.2	N.A.	22.9
FH - Front-High (60-80)	6794.8	N.A.	21.8
FVH - Front-Very High (80-90)	77.4	N.A.	0.2
BL - Back-Low (0-30)	1554.5	N.A.	5.0
BM - Back-Medium (30-60)	7147.2	N.A.	22.9
BH - Back-High (60-80)	6794.8	N.A.	21.8
BVH - Back-Very High (80-90)	77.4	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	31147.8	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	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629
2.5	3267.627	3267.627	3269.878	3269.878	3268.753	3267.627	3267.627	3271.003	3272.128	3277.754	
5.0	3290.132	3291.257	3293.507	3290.132	3287.881	3289.006	3286.756	3291.257	3293.507	3300.259	
7.5	3330.639	3332.890	3332.890	3331.765	3329.514	3330.639	3328.389	3337.391	3339.641	3346.392	
10.0	3379.024	3380.149	3380.149	3380.149	3379.024	3382.399	3383.525	3392.526	3394.777	3402.653	
12.5	3434.159	3435.284	3434.159	3431.909	3433.034	3437.535	3440.911	3449.912	3454.413	3461.164	
15.0	3498.297	3498.297	3491.545	3491.545	3493.796	3496.046	3500.547	3507.298	3511.799	3519.676	
17.5	3577.062	3571.436	3561.309	3560.183	3560.183	3560.183	3561.309	3568.060	3572.561	3578.187	
20.0	3662.578	3652.451	3637.823	3637.823	3635.573	3633.322	3632.197	3636.698	3636.698	3643.449	
22.5	3754.846	3741.343	3730.091	3724.465	3719.964	3718.839	3709.837	3714.338	3712.088	3715.463	
25.0	3853.865	3842.613	3832.486	3826.860	3820.108	3813.357	3803.230	3804.355	3799.854	3800.980	
27.5	3975.388	3960.760	3950.633	3945.007	3932.630	3929.254	3916.877	3915.752	3906.750	3913.501	
30.0	4118.291	4102.538	4093.536	4085.659	4075.532	4068.781	4054.153	4054.153	4042.901	4049.652	
32.5	4272.445	4257.817	4248.816	4251.066	4236.438	4243.190	4229.687	4227.437	4212.809	4215.059	
35.0	4472.734	4455.855	4442.353	4449.104	4444.603	4449.104	4440.102	4442.353	4426.600	4438.977	
37.5	4711.279	4695.526	4685.399	4700.027	4689.900	4711.279	4701.152	4710.154	4696.652	4714.655	
40.0	4981.331	4964.453	4954.326	4975.705	4989.208	5015.088	5020.714	5036.467	5027.465	5049.969	
42.5	5241.256	5233.380	5232.254	5270.512	5304.268	5353.778	5384.159	5408.913	5410.039	5439.294	
45.0	5511.308	5506.807	5521.435	5569.819	5622.704	5711.596	5745.353	5795.988	5811.741	5836.495	
47.5	5795.988	5802.739	5826.368	5888.255	5965.895	6068.290	6113.299	6183.062	6205.566	6240.448	
50.0	6152.681	6165.059	6190.938	6268.578	6374.349	6512.750	6567.886	6641.025	6652.277	6687.159	
52.5	6593.766	6606.143	6638.774	6755.797	6902.075	7087.736	7162.000	7199.132	7208.134	7239.640	
55.0	7118.116	7136.120	7198.007	7373.540	7599.709	7839.380	7956.402	7986.783	7976.656	8023.915	
57.5	7664.971	7699.853	7819.126	8089.178	8454.873	8795.814	8979.224	8964.596	8983.725	9007.354	
60.0	8212.952	8254.585	8476.252	8894.833	9420.308	9914.278	10224.838	10228.214	10246.217	10238.340	
62.5	8463.875	8528.012	8904.959	9441.688	10187.706	10974.232	11542.466	11720.250	11763.008	11742.754	
65.0	8035.168	8143.188	8677.666	9409.056	10413.874	11494.082	12498.899	13069.384	13386.695	13522.846	
67.0	7044.977	7171.002	7752.738	8691.168	9826.511	11144.139	12557.411	13631.992	14282.367	14730.203	
67.5	6679.282	6809.807	7387.043	8378.358	9529.454	10910.094	12421.260	13648.870	14391.513	14891.109	
70.0	4096.911	4220.685	4756.288	5743.103	6893.073	8501.007	10428.502	12345.870	13633.117	14227.231	
72.5	1801.471	1862.232	2150.288	2578.995	3223.744	4472.734	6221.319	8289.466	9739.870	10478.011	
75.0	805.655	822.533	890.046	985.689	1137.593	1494.287	2150.288	3397.027	4543.622	5240.131	
77.5	457.963	461.339	511.973	551.356	607.617	674.004	760.646	954.183	1289.498	1521.292	
80.0	294.807	292.556	309.434	346.567	391.575	424.206	454.587	493.970	546.855	576.111	
82.5	176.659	174.408	180.035	195.788	231.794	249.798	263.301	277.928	292.556	291.431	
85.0	59.636	65.263	72.014	81.016	104.645	109.146	114.772	117.022	109.146	103.520	
87.5	6.751	7.877	11.252	12.377	16.878	18.003	19.129	20.254	19.129	16.878	
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

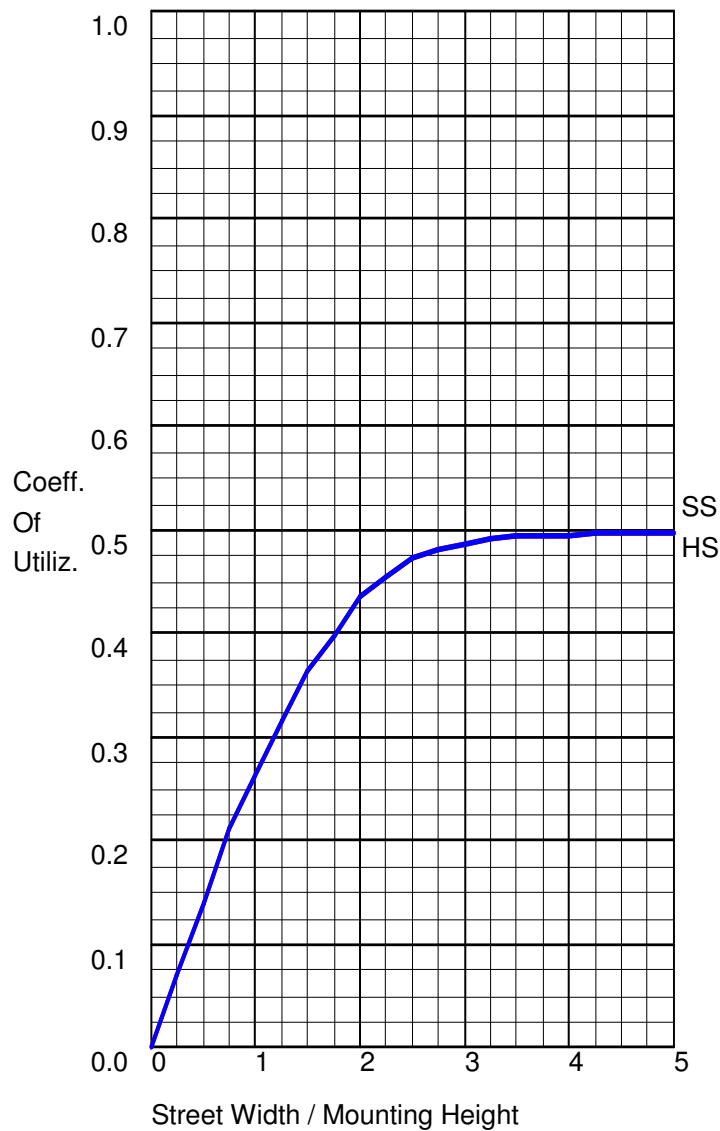
Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	
0.0	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629	3276.629
2.5	3278.879	3281.130	3284.506	3287.881	3289.006	3291.257	3294.632	3293.507	3299.133	
5.0	3302.509	3303.634	3311.511	3316.012	3317.137	3320.512	3325.013	3323.888	3327.264	
7.5	3350.893	3354.269	3359.895	3366.646	3371.147	3374.523	3381.274	3379.024	3381.274	
10.0	3408.279	3412.780	3418.406	3425.158	3431.909	3434.159	3443.161	3443.161	3442.036	
12.5	3466.791	3473.542	3478.043	3483.669	3490.420	3496.046	3502.797	3506.173	3502.797	
15.0	3524.177	3529.803	3535.429	3541.055	3548.931	3555.683	3564.684	3571.436	3565.810	
17.5	3581.563	3587.189	3596.190	3602.942	3611.943	3619.820	3632.197	3641.199	3634.448	
20.0	3646.825	3651.326	3659.202	3671.580	3682.832	3692.959	3707.587	3719.964	3716.588	
22.5	3721.089	3725.590	3734.592	3744.719	3760.472	3775.100	3791.978	3808.856	3808.856	
25.0	3807.731	3811.107	3822.359	3833.611	3852.740	3868.493	3892.122	3907.875	3909.000	

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CANDELA TABULATION - (Cont.)

27.5	3913.501	3921.378	3931.505	3945.007	3965.261	3981.014	4000.143	4013.645	4022.647
30.0	4050.778	4056.404	4068.781	4080.033	4104.788	4119.416	4138.544	4144.171	4158.798
32.5	4222.936	4229.687	4246.565	4256.692	4278.071	4285.948	4301.701	4302.826	4318.579
35.0	4440.102	4451.355	4465.982	4471.608	4489.612	4492.988	4508.741	4505.365	4519.993
37.5	4712.405	4723.657	4736.034	4740.535	4756.288	4750.662	4754.038	4752.912	4763.039
40.0	5051.095	5044.343	5066.848	5063.472	5069.098	5039.842	5026.340	5021.839	5028.590
42.5	5429.167	5423.541	5437.044	5419.040	5388.659	5336.900	5306.519	5298.642	5305.393
45.0	5822.993	5808.365	5803.864	5765.607	5707.096	5637.332	5597.950	5588.948	5591.198
47.5	6223.570	6197.690	6174.060	6132.427	6051.412	5968.146	5920.887	5908.509	5905.134
50.0	6671.406	6651.152	6625.272	6594.891	6477.869	6370.973	6310.211	6292.208	6291.083
52.5	7250.892	7275.647	7243.015	7172.127	7017.972	6864.943	6781.677	6749.046	6733.293
55.0	8093.679	8115.058	8067.799	7921.521	7715.606	7472.560	7335.283	7279.022	7268.895
57.5	9130.003	9151.382	9096.246	8882.455	8579.772	8214.077	8014.914	7912.519	7894.516
60.0	10359.864	10391.370	10332.859	10081.935	9656.604	9130.003	8776.685	8598.901	8501.007
62.5	11866.528	11901.410	11831.646	11402.939	10726.684	9995.294	9434.936	9105.248	8969.097
65.0	13686.002	13566.729	13170.653	12240.100	11146.390	10141.572	9362.922	8783.436	8663.038
67.0	14747.081	14296.995	13318.057	11902.535	10507.267	9321.289	8394.111	7690.851	7607.585
67.5	14869.730	14311.622	13187.532	11642.610	10191.081	8972.472	8008.162	7290.275	7220.511
70.0	13842.407	12798.207	11093.505	9142.380	7531.071	6109.923	5098.354	4486.236	4423.224
72.5	10097.688	8719.299	6718.665	4687.650	3349.768	2600.374	2232.429	2015.262	1995.008
75.0	4706.779	3382.399	2175.043	1560.675	1279.371	1092.585	1002.567	962.060	946.307
77.5	1262.492	957.559	824.783	735.891	675.130	623.370	576.111	546.855	542.354
80.0	551.356	513.098	491.719	461.339	436.584	400.577	345.441	336.440	337.565
82.5	300.433	292.556	289.181	276.803	257.674	223.918	199.163	199.163	203.664
85.0	104.645	119.273	115.897	112.522	106.896	86.642	78.765	79.890	77.640
87.5	18.003	19.129	15.753	15.753	15.753	13.503	11.252	11.252	10.127
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

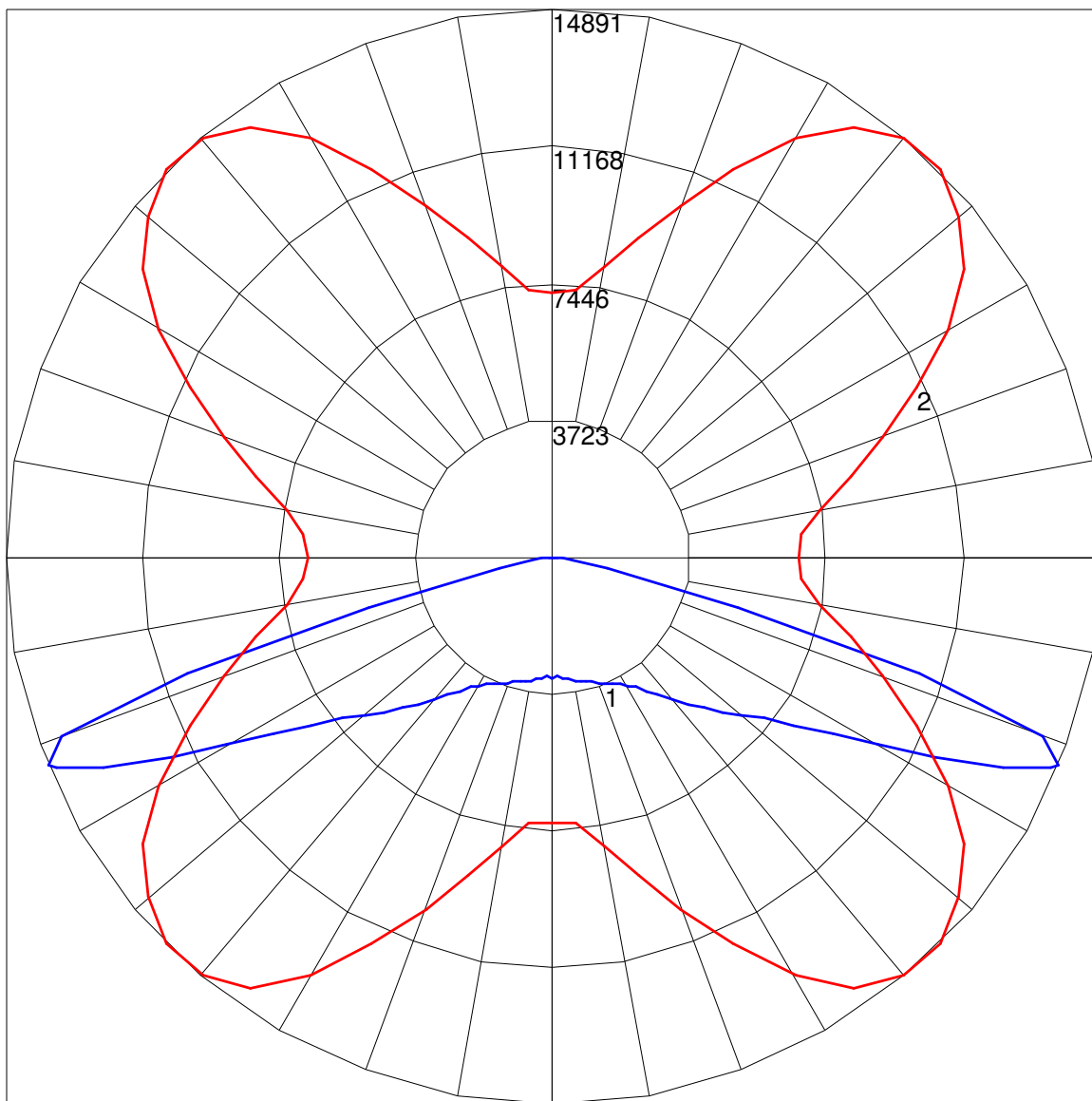
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

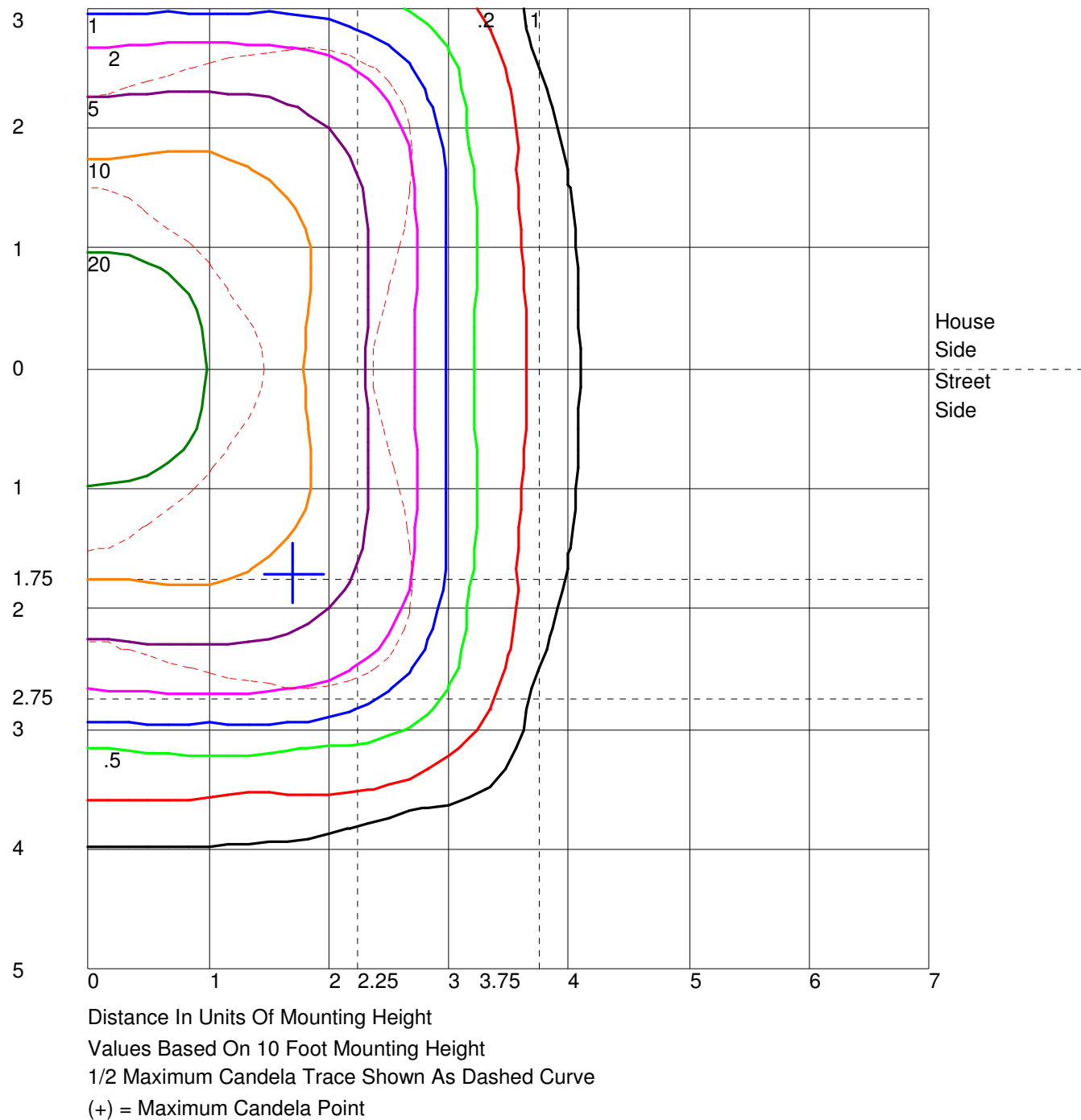
	Lumens	Percent Of Luminaire
Downward Street Side	15573.9	50.0
Downward House Side	15573.9	50.0
Downward Total	31147.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	31147.8	100.0

POLAR GRAPH

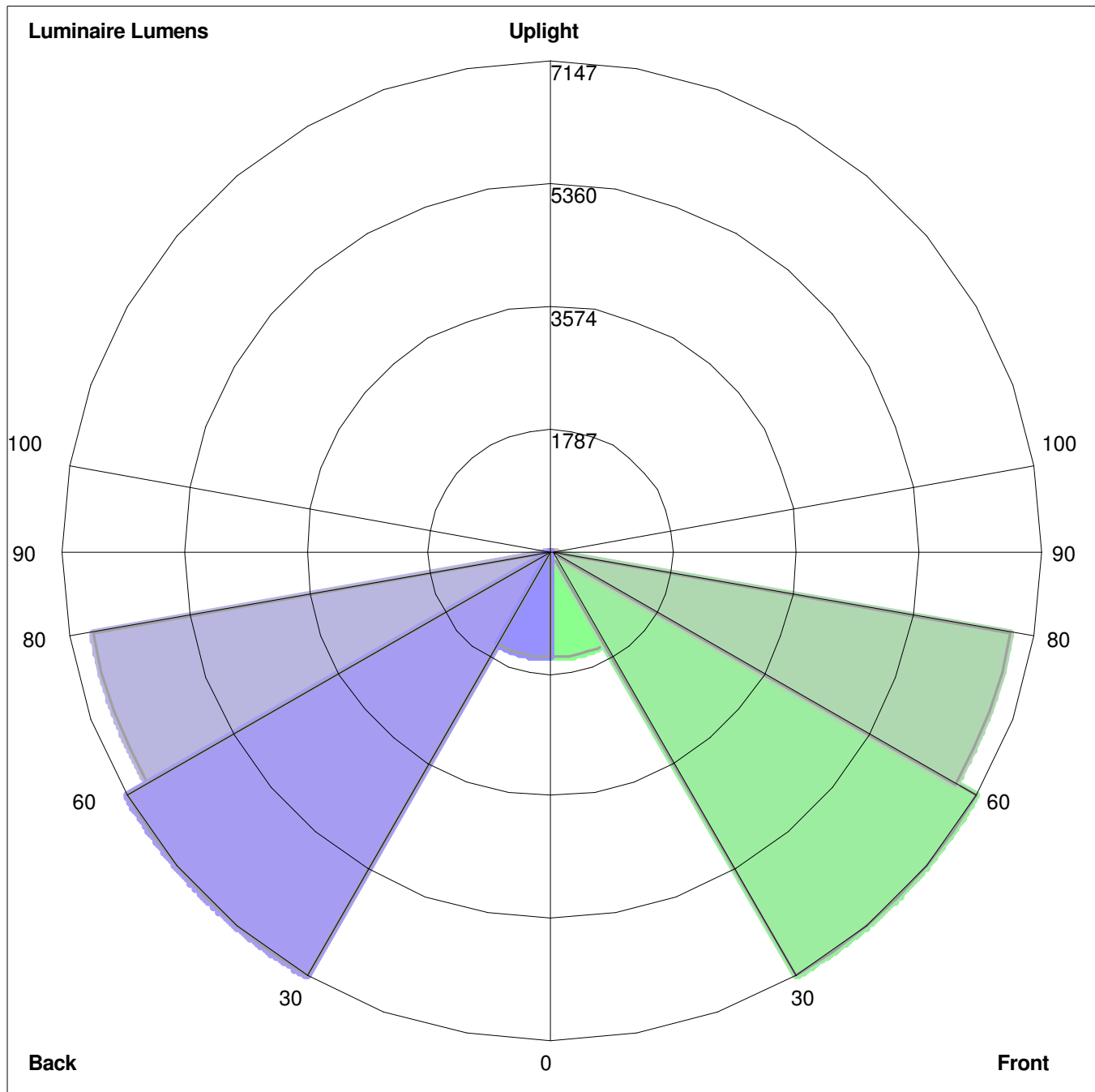


Maximum Candela = 14891.109 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1554.5, Medium=7147.2, High=6794.8, Very High=77.4
Back: Low=1554.5, Medium=7147.2, High=6794.8, Very High=77.4
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3