



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-730-T5-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011774
[TESTLAB] ATAL-LABS
[ISSUE DATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-730-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] 3000K 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	29766
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	14230.309
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	14230.309
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	550.545 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-730-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1485.6	N.A.	5.0
FM - Front-Medium (30-60)	6830.0	N.A.	22.9
FH - Front-High (60-80)	6493.3	N.A.	21.8
FVH - Front-Very High (80-90)	73.9	N.A.	0.2
BL - Back-Low (0-30)	1485.6	N.A.	5.0
BM - Back-Medium (30-60)	6830.0	N.A.	22.9
BH - Back-High (60-80)	6493.3	N.A.	21.8
BVH - Back-Very High (80-90)	73.9	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	29765.6	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	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227
2.5	3122.625	3122.625	3124.775	3124.775	3123.700	3122.625	3122.625	3125.851	3126.926	3132.302
5.0	3144.130	3145.206	3147.356	3144.130	3141.980	3143.055	3140.905	3145.206	3147.356	3153.808
7.5	3182.841	3184.991	3184.991	3183.916	3181.765	3182.841	3180.690	3189.292	3191.443	3197.895
10.0	3229.078	3230.153	3230.153	3230.153	3229.078	3232.304	3233.379	3241.981	3244.132	3251.659
12.5	3281.767	3282.842	3281.767	3279.616	3280.691	3284.993	3288.218	3296.821	3301.122	3307.574
15.0	3343.058	3343.058	3336.606	3336.606	3338.757	3340.907	3345.209	3351.660	3355.961	3363.488
17.5	3418.328	3412.951	3403.274	3402.199	3402.199	3402.199	3403.274	3409.726	3414.027	3419.403
20.0	3500.049	3490.372	3476.393	3476.393	3474.243	3472.092	3471.017	3475.318	3475.318	3481.770
22.5	3588.223	3575.319	3564.566	3559.190	3554.889	3553.814	3545.211	3549.512	3547.362	3550.588
25.0	3682.848	3672.095	3662.417	3657.041	3650.589	3644.137	3634.460	3635.535	3631.234	3632.309
27.5	3798.978	3785.000	3775.322	3769.946	3758.118	3754.892	3743.064	3741.988	3733.386	3739.838
30.0	3935.539	3920.485	3911.883	3904.356	3894.679	3888.227	3874.248	3874.248	3863.495	3869.947
32.5	4082.853	4068.875	4060.272	4062.423	4048.444	4054.896	4041.993	4039.842	4025.863	4028.014
35.0	4274.254	4258.125	4245.221	4251.673	4247.372	4251.673	4243.071	4245.221	4230.167	4241.995
37.5	4502.214	4487.160	4477.483	4491.461	4481.784	4502.214	4492.537	4501.139	4488.235	4505.440
40.0	4760.282	4744.153	4734.475	4754.906	4767.809	4792.541	4797.917	4812.971	4804.369	4825.875
42.5	5008.673	5001.146	5000.071	5036.630	5068.889	5116.201	5145.234	5168.890	5169.965	5197.923
45.0	5266.741	5262.440	5276.419	5322.656	5373.194	5458.142	5490.400	5538.788	5553.842	5577.498
47.5	5538.788	5545.240	5567.821	5626.961	5701.156	5799.007	5842.018	5908.686	5930.191	5963.525
50.0	5879.653	5891.481	5916.213	5990.407	6091.484	6223.744	6276.433	6346.326	6357.079	6390.413
52.5	6301.164	6312.992	6344.176	6456.005	6595.792	6773.214	6844.183	6879.667	6888.269	6918.377
55.0	6802.247	6819.451	6878.592	7046.336	7262.468	7491.504	7603.333	7632.366	7622.688	7667.850
57.5	7324.835	7358.168	7472.149	7730.217	8079.684	8405.495	8580.766	8566.788	8585.067	8607.648
60.0	7848.498	7888.283	8100.114	8500.120	9002.278	9474.327	9771.106	9774.332	9791.536	9784.009
62.5	8088.286	8149.577	8509.798	9022.708	9735.621	10487.245	11030.263	11200.158	11241.019	11221.664
65.0	7678.603	7781.830	8292.590	8991.525	9951.753	10984.026	11944.255	12489.424	12792.654	12922.763
67.0	6732.353	6852.785	7408.707	8305.494	9390.455	10649.613	12000.169	13027.066	13648.580	14076.543
67.5	6382.886	6507.619	7059.239	8006.565	9106.580	10425.954	11870.060	13043.195	13752.882	14230.309
70.0	3915.109	4033.390	4545.225	5488.250	6587.190	8123.771	9965.732	11798.016	13028.141	13595.891
72.5	1721.530	1779.595	2054.868	2464.551	3080.689	4274.254	5945.245	7921.617	9307.658	10013.045
75.0	769.903	786.033	850.550	941.949	1087.112	1427.977	2054.868	3246.282	4341.997	5007.598
77.5	437.641	440.866	489.254	526.889	580.653	644.095	726.892	911.841	1232.275	1453.784
80.0	281.724	279.574	295.703	331.187	374.199	405.382	434.415	472.050	522.588	550.545
82.5	168.820	166.669	172.045	187.099	221.509	238.713	251.616	265.595	279.574	278.499
85.0	56.990	62.366	68.818	77.420	100.001	104.303	109.679	111.830	104.303	98.926
87.5	6.452	7.527	10.753	11.828	16.129	17.205	18.280	19.355	18.280	16.129
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	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227	3131.227
2.5	3133.378	3135.528	3138.754	3141.980	3143.055	3145.206	3148.432	3147.356	3152.733
5.0	3155.959	3157.034	3164.561	3168.862	3169.937	3173.163	3177.464	3176.389	3179.615
7.5	3202.196	3205.422	3210.798	3217.250	3221.551	3224.777	3231.228	3229.078	3231.228
10.0	3257.035	3261.336	3266.713	3273.165	3279.616	3281.767	3290.369	3290.369	3289.294
12.5	3312.950	3319.402	3323.703	3329.079	3335.531	3340.907	3347.359	3350.585	3347.359
15.0	3367.790	3373.166	3378.542	3383.919	3391.446	3397.897	3406.500	3412.951	3407.575
17.5	3422.629	3428.005	3436.608	3443.059	3451.662	3459.189	3471.017	3479.619	3473.167
20.0	3484.995	3489.297	3496.824	3508.652	3519.405	3529.082	3543.061	3554.889	3551.663
22.5	3555.964	3560.265	3568.868	3578.545	3593.599	3607.578	3623.707	3639.836	3639.836
25.0	3638.761	3641.987	3652.740	3663.493	3681.772	3696.826	3719.407	3734.461	3735.537

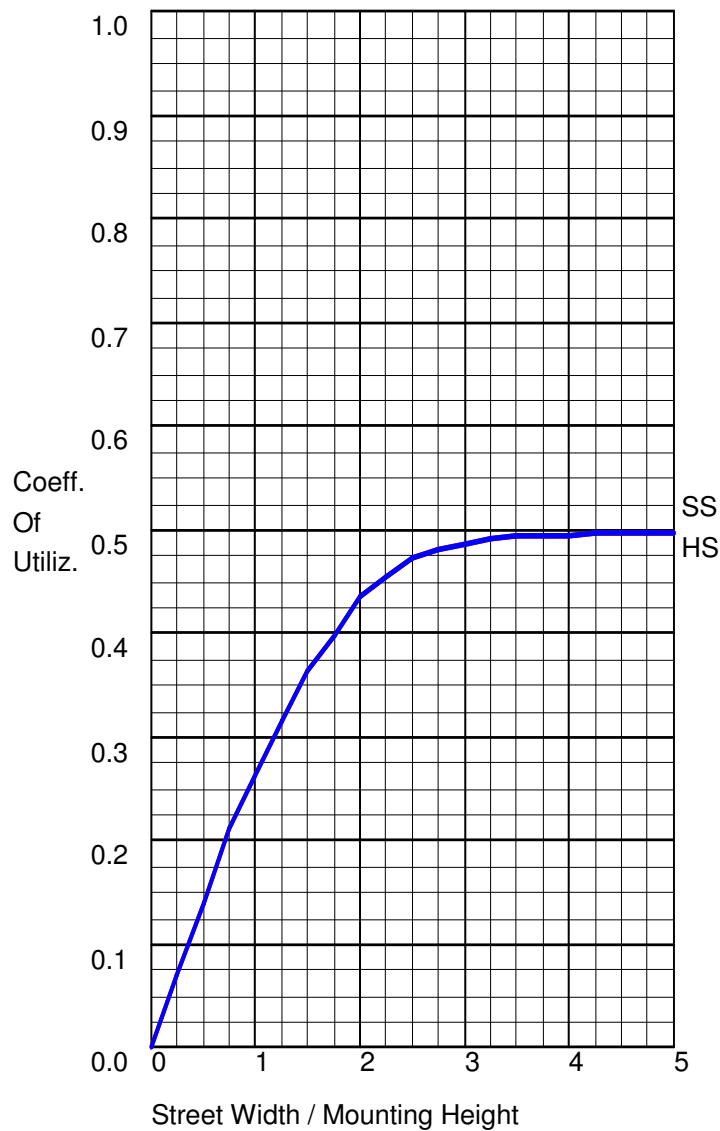
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CANDELA TABULATION - (Cont.)

27.5	3739.838	3747.365	3757.042	3769.946	3789.301	3804.355	3822.635	3835.538	3844.140
30.0	3871.022	3876.399	3888.227	3898.980	3922.636	3936.615	3954.895	3960.271	3974.250
32.5	4035.541	4041.993	4058.122	4067.799	4088.230	4095.757	4110.811	4111.886	4126.940
35.0	4243.071	4253.824	4267.802	4273.179	4290.383	4293.609	4308.663	4305.437	4319.416
37.5	4503.289	4514.042	4525.870	4530.172	4545.225	4539.849	4543.075	4542.000	4551.677
40.0	4826.950	4820.498	4842.004	4838.778	4844.154	4816.197	4803.294	4798.993	4805.444
42.5	5188.245	5182.869	5195.772	5178.568	5149.535	5100.072	5071.039	5063.512	5069.964
45.0	5564.595	5550.616	5546.315	5509.755	5453.840	5387.173	5349.538	5340.936	5343.086
47.5	5947.396	5922.664	5900.083	5860.298	5782.877	5703.306	5658.144	5646.316	5643.090
50.0	6375.359	6356.004	6331.272	6302.240	6190.410	6088.258	6030.193	6012.988	6011.913
52.5	6929.130	6952.786	6921.603	6853.860	6706.546	6560.308	6480.737	6449.553	6434.499
55.0	7734.518	7754.948	7709.786	7569.999	7373.222	7140.961	7009.776	6956.012	6946.335
57.5	8724.854	8745.285	8692.596	8488.292	8199.041	7849.573	7659.248	7561.397	7544.193
60.0	9900.140	9930.248	9874.333	9634.545	9228.087	8724.854	8387.215	8217.320	8123.771
62.5	11339.945	11373.279	11306.611	10896.928	10250.682	9551.748	9016.256	8701.198	8571.089
65.0	13078.679	12964.699	12586.199	11696.939	10651.763	9691.535	8947.438	8393.667	8278.612
67.0	14092.672	13662.559	12727.061	11374.354	10041.002	8907.653	8021.619	7349.566	7269.995
67.5	14209.878	13676.537	12602.329	11125.964	9738.847	8574.315	7652.796	6966.765	6900.097
70.0	13228.144	12230.280	10601.225	8736.683	7196.876	5838.792	4872.112	4287.157	4226.941
72.5	9649.599	8332.376	6420.521	4479.633	3201.120	2484.981	2133.363	1925.834	1906.479
75.0	4497.913	3232.304	2078.524	1491.419	1222.598	1044.101	958.078	919.368	904.314
77.5	1206.469	915.067	788.183	703.236	645.170	595.707	550.545	522.588	518.287
80.0	526.889	490.330	469.899	440.866	417.210	382.801	330.112	321.510	322.585
82.5	287.101	279.574	276.348	264.520	246.240	213.982	190.325	190.325	194.626
85.0	100.001	113.980	110.754	107.528	102.152	82.797	75.270	76.345	74.195
87.5	17.205	18.280	15.054	15.054	15.054	12.903	10.753	10.753	9.678
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

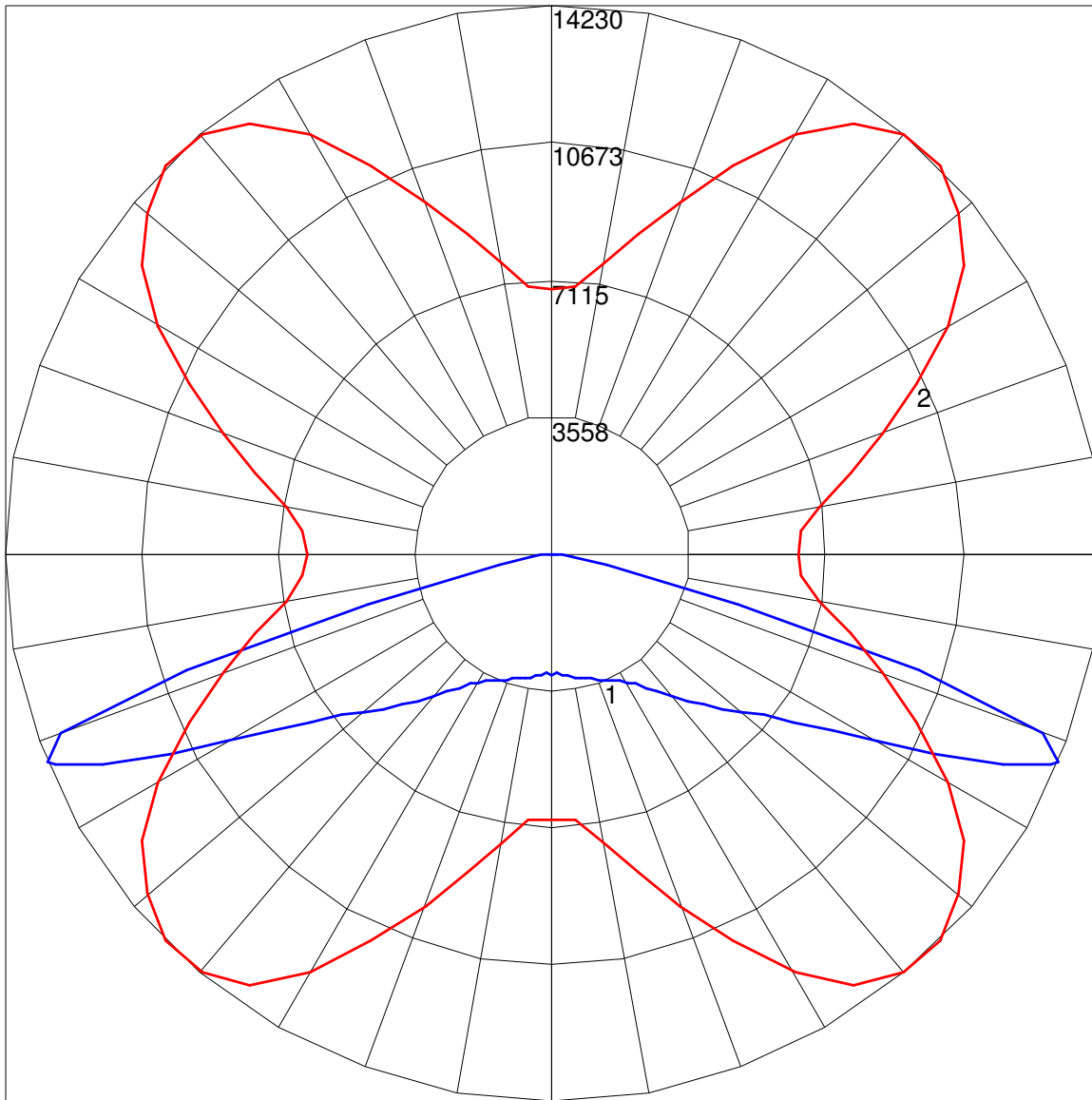
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

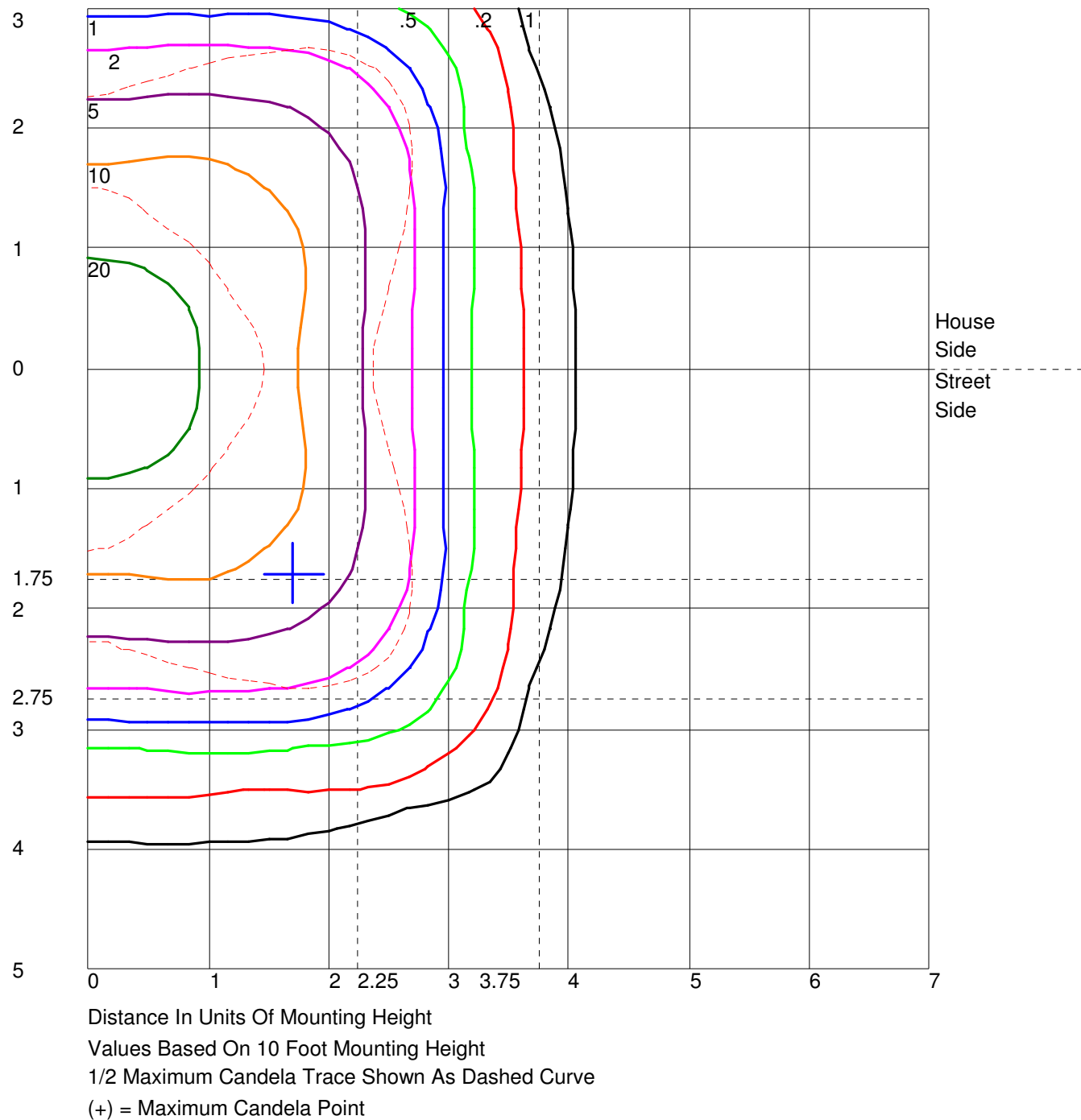
	Lumens	Percent Of Luminaire
Downward Street Side	14882.8	50.0
Downward House Side	14882.8	50.0
Downward Total	29765.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29765.6	100.0

POLAR GRAPH

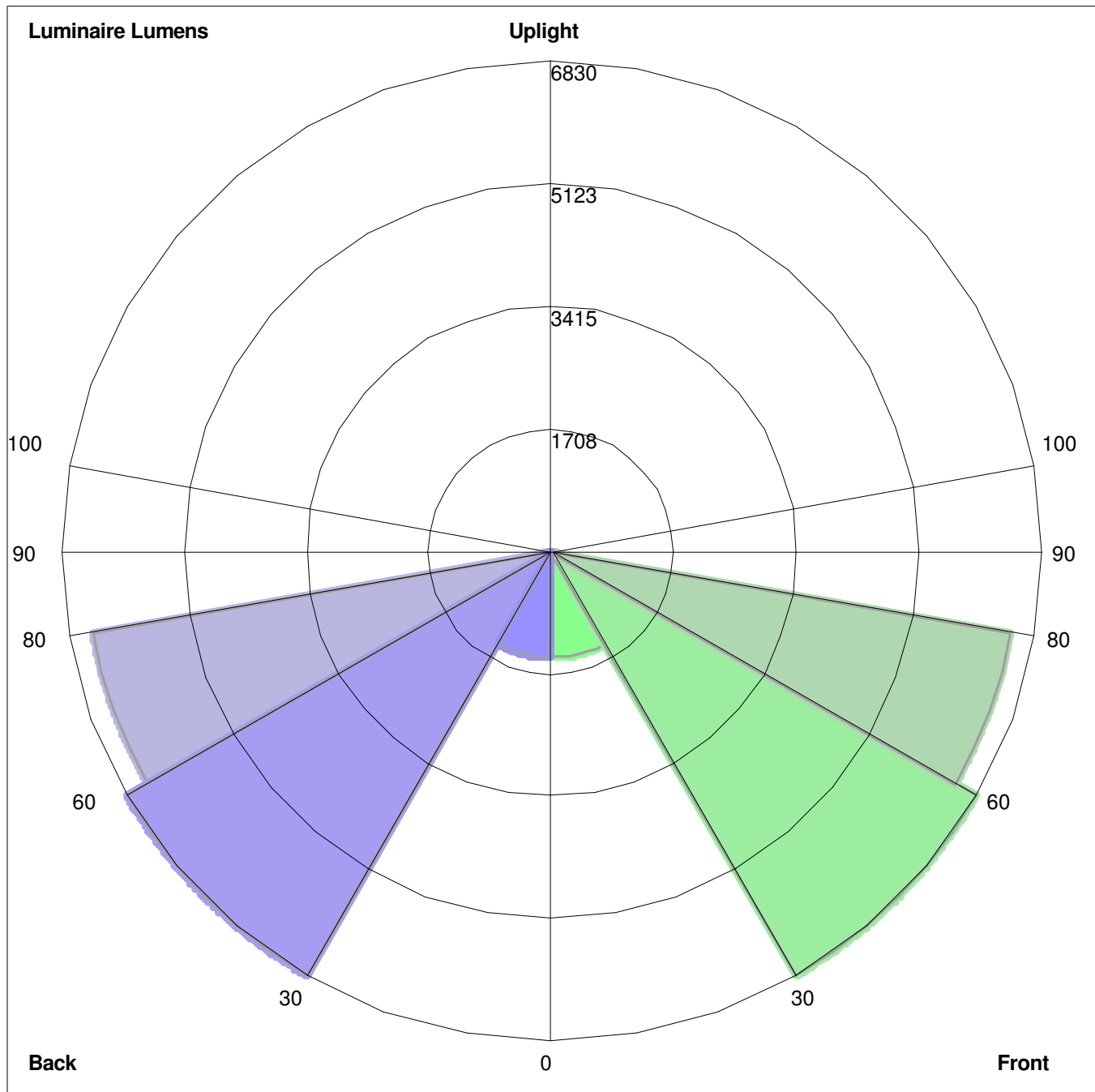


Maximum Candela = 14230.309 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1485.6, Medium= 6830.0, High=6493.3, Very High=73.9
Back: Low=1485.6, Medium= 6830.0, High=6493.3, Very High=73.9
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3