



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-750-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-L330-750-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	30966
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	29499.675
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	29499.675
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	2088.194 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-750-T4-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2365.6	N.A.	7.6
FM - Front-Medium (30-60)	9533.8	N.A.	30.8
FH - Front-High (60-80)	11096.7	N.A.	35.8
FVH - Front-Very High (80-90)	195.1	N.A.	0.6
BL - Back-Low (0-30)	1569.5	N.A.	5.1
BM - Back-Medium (30-60)	3741.0	N.A.	12.1
BH - Back-High (60-80)	2318.6	N.A.	7.5
BVH - Back-Very High (80-90)	146.2	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	30966.5	N.A.	100.0
BUG Rating	B3-U0-G4		

**IES ROAD REPORT**  
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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	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791
2.5	5227.745	5216.856	5231.374	5208.387	5158.783	5150.315	5127.327	5094.662	5030.540	4978.516
5.0	5657.240	5662.079	5670.548	5631.833	5566.502	5480.602	5458.825	5346.310	5195.079	5042.638
7.5	5897.999	5906.468	5912.517	5904.049	5837.507	5756.447	5727.411	5559.242	5345.100	5114.019
10.0	5951.233	5963.331	5969.380	5983.898	5965.751	5893.160	5870.173	5693.535	5475.763	5187.820
12.5	5937.924	5947.603	5945.183	5970.590	5981.479	5919.777	5899.209	5758.867	5574.970	5260.410
15.0	5904.049	5907.678	5895.580	5920.986	5950.023	5897.999	5876.222	5791.533	5651.191	5346.310
17.5	5862.914	5859.284	5845.976	5868.963	5885.901	5858.074	5847.186	5821.779	5723.782	5421.320
20.0	5775.805	5769.756	5781.854	5820.569	5822.989	5803.631	5802.422	5845.976	5724.991	5461.245
22.5	5656.030	5652.401	5734.670	5777.015	5754.028	5749.188	5763.706	5792.743	5710.473	5516.898
25.0	5568.921	5577.390	5726.201	5714.103	5692.326	5722.572	5747.978	5740.719	5731.041	5585.859
27.5	5562.872	5594.328	5711.683	5687.486	5680.227	5739.510	5769.756	5756.447	5780.644	5683.857
30.0	5665.709	5675.388	5717.732	5712.893	5750.398	5809.681	5833.878	5853.235	5879.852	5821.779
32.5	5819.359	5780.644	5801.212	5860.494	5911.308	5945.183	5968.170	6015.354	6033.502	5992.367
35.0	6023.823	5962.121	5963.331	6104.883	6126.660	6147.228	6150.857	6218.609	6218.609	6201.671
37.5	6360.161	6314.186	6277.891	6404.925	6438.801	6420.653	6398.876	6423.073	6415.813	6421.863
40.0	6794.495	6752.151	6701.337	6795.705	6853.778	6765.459	6735.213	6615.438	6625.117	6673.511
42.5	7248.188	7204.633	7184.066	7284.483	7370.382	7201.004	7124.783	6841.679	6868.296	6948.146
45.0	7786.569	7768.421	7758.743	7860.370	7953.528	7738.175	7623.240	7273.594	7174.387	7283.273
47.5	8430.207	8381.813	8407.220	8568.130	8510.057	8366.085	8255.989	7867.629	7600.253	7692.201
50.0	9101.672	9030.291	9041.179	9294.037	9147.646	9053.278	8969.798	8629.832	8185.818	8177.349
52.5	9998.168	9978.810	9740.470	9936.465	9839.678	9793.704	9777.976	9586.820	8914.145	8709.681
55.0	11515.314	11322.949	10818.443	10685.360	10613.979	10693.829	10803.925	10640.596	9753.779	9355.739
57.5	13057.868	13043.350	12394.872	11743.975	11457.242	11835.924	12109.349	11676.224	10644.225	9999.377
60.0	13820.071	13822.491	13863.626	13147.397	12468.673	13276.850	13755.949	12850.984	11452.402	10433.712
62.5	14458.870	14604.051	15003.300	14835.132	13880.563	15311.811	16074.014	14112.854	11903.675	10524.451
65.0	15323.910	15571.928	16856.785	16845.896	15904.636	18649.776	19552.322	15557.410	11563.708	10176.015
67.5	14561.707	14854.489	17961.374	19753.156	18834.883	23486.741	24264.672	16400.673	10267.963	9280.729
70.0	11793.579	11852.861	16301.465	21701.008	21727.625	28190.622	28402.345	14605.261	9760.787	7071.550
72.0	8593.536	8739.928	13219.987	20453.657	21721.575	29499.675	29003.639	10205.051	5629.414	4118.316
72.5	7554.279	7700.670	12187.989	19766.464	21350.153	29223.831	28708.436	8895.998	5057.156	3425.074
75.0	2964.123	2919.358	5341.470	12279.937	15920.364	22463.211	17865.796	3576.305	3012.517	1584.898
77.5	1924.865	1874.051	1713.142	3513.393	5981.479	7066.711	3596.872	1426.408	1653.860	1016.271
80.0	1250.981	1402.212	1040.468	1594.577	2088.194	1733.709	1230.413	813.017	958.198	669.045
82.5	636.379	765.833	612.182	799.708	874.719	684.773	661.786	465.791	502.086	376.262
85.0	268.586	358.114	250.438	303.671	335.127	246.809	246.809	193.575	208.094	154.860
87.5	66.542	96.788	38.715	38.715	58.073	36.295	30.246	32.666	32.666	24.197
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	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791	4864.791
2.5	4915.604	4870.840	4838.174	4776.472	4702.671	4639.759	4572.008	4533.293	4476.430	4458.283
5.0	4881.729	4792.200	4713.560	4567.169	4423.197	4305.842	4195.746	4134.044	4069.922	4046.935
7.5	4866.001	4737.757	4614.353	4392.951	4196.956	4049.355	3941.678	3887.235	3850.940	3846.100
10.0	4855.112	4685.734	4519.985	4229.622	4004.590	3867.878	3789.238	3781.979	3798.917	3834.002
12.5	4850.273	4636.130	4425.617	4071.132	3841.261	3739.634	3720.277	3768.670	3855.779	3953.777
15.0	4861.161	4597.415	4340.928	3925.950	3702.129	3641.637	3683.981	3792.867	3940.468	4084.440
17.5	4868.420	4561.119	4262.288	3795.287	3585.984	3564.206	3636.797	3781.979	3930.790	4074.761
20.0	4874.470	4526.034	4192.116	3680.352	3490.406	3495.245	3566.626	3681.561	3804.966	3952.567
22.5	4892.617	4500.627	4125.575	3573.885	3411.766	3431.123	3463.789	3531.541	3639.217	3781.979
25.0	4927.703	4492.158	4068.712	3486.776	3350.064	3364.582	3335.545	3377.890	3455.320	3596.872

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**CANDELA TABULATION - (Cont.)**

27.5	4993.035	4504.257	4029.997	3422.654	3304.089	3281.102	3215.771	3229.079	3298.040	3419.025
30.0	5091.032	4545.391	4016.689	3376.680	3269.004	3189.154	3109.304	3103.255	3151.649	3264.165
32.5	5226.535	4615.563	4022.738	3344.014	3243.597	3104.465	3012.517	2984.690	3028.245	3174.636
35.0	5398.333	4712.350	4049.355	3324.657	3218.190	3033.084	2922.988	2870.965	2960.493	3127.452
37.5	5613.686	4839.384	4102.588	3329.496	3174.636	2966.542	2821.361	2800.794	2916.939	3099.626
40.0	5896.790	5028.120	4196.956	3365.792	3123.822	2908.470	2730.622	2760.869	2874.594	3093.576
42.5	6247.645	5295.496	4344.557	3410.556	3088.737	2867.335	2681.019	2717.314	2844.348	3089.947
45.0	6665.042	5629.414	4563.539	3449.271	3074.219	2828.620	2665.291	2672.550	2817.731	3064.540
47.5	7159.869	6064.958	4847.853	3484.357	3069.379	2791.115	2637.464	2628.995	2779.016	2916.939
50.0	7727.287	6594.871	5184.190	3544.849	3074.219	2748.770	2593.910	2581.811	2620.526	2849.187
52.5	8338.259	7136.882	5560.452	3669.463	3099.626	2729.413	2546.726	2524.949	2478.974	2815.312
55.0	9053.278	7986.194	6247.645	3806.176	3129.872	2769.338	2552.775	2422.112	2420.902	2743.931
57.5	10162.707	9252.902	6891.283	3928.370	3254.486	2927.827	2695.537	2469.296	2475.345	2668.920
60.0	11378.602	9932.836	7341.346	4163.080	3398.457	3024.615	2817.731	2592.700	2670.130	2712.475
62.5	11373.762	9958.243	7808.346	4334.878	3397.248	2997.998	2771.757	2553.985	2821.361	2683.438
65.0	10590.992	9544.475	7578.475	4213.894	3376.680	2996.789	2661.661	2314.435	2661.661	2471.715
67.5	7874.888	6881.604	5153.944	3169.797	3091.157	2967.752	2551.565	2083.355	2367.669	2257.573
70.0	3790.448	3016.146	2189.821	1738.549	2199.500	2722.154	2493.493	1874.051	2093.034	2152.316
72.0	1920.026	1512.308	1269.128	1138.465	1404.631	2293.868	2460.827	1681.686	1805.090	1970.839
72.5	1788.152	1362.287	1165.082	1064.664	1258.240	2232.166	2437.840	1630.872	1725.240	1911.557
75.0	1065.874	896.496	800.918	773.092	844.473	1471.173	2097.873	1381.644	1340.509	1564.331
77.5	712.599	606.133	564.998	550.480	606.133	863.830	1586.108	1183.229	1056.196	1202.587
80.0	474.260	399.249	377.472	378.682	419.817	551.690	1012.641	914.644	815.436	920.693
82.5	268.586	216.562	210.513	225.031	255.278	324.239	545.641	667.835	596.454	688.402
85.0	110.096	83.479	81.060	90.738	112.516	146.391	257.697	320.609	289.153	318.190
87.5	16.938	12.098	10.889	14.518	22.987	32.666	67.751	73.801	67.751	62.912
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

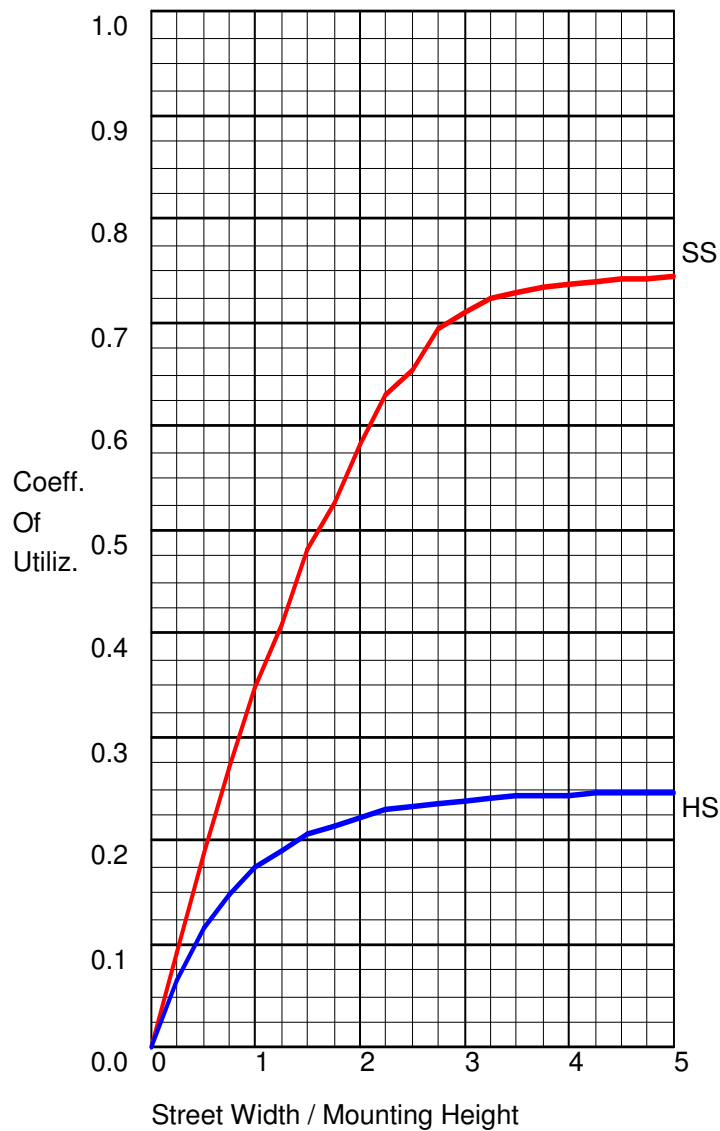
**Vert. Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	4864.791	4864.791
2.5	4446.184	4460.702
5.0	4033.627	4043.305
7.5	3842.471	3844.891
10.0	3854.569	3852.150
12.5	4007.010	4004.590
15.0	4159.451	4160.660
17.5	4153.401	4163.080
20.0	4043.305	4059.033
22.5	3878.766	3900.544
25.0	3702.129	3720.277
27.5	3525.491	3543.639
30.0	3383.939	3399.667
32.5	3313.768	3334.336
35.0	3272.633	3294.411
37.5	3272.633	3287.152
40.0	3291.991	3295.621
42.5	3288.361	3293.201
45.0	3208.512	3206.092
47.5	3115.354	3129.872
50.0	3141.970	3157.698
52.5	3151.649	3160.118
55.0	3089.947	3102.045
57.5	3005.258	3022.195
60.0	2914.519	2930.247

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-750-T4-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	2756.029	2776.597
<b>65.0</b>	2532.208	2581.811
<b>67.5</b>	2296.288	2377.347
<b>70.0</b>	2045.850	2155.946
<b>72.0</b>	1854.694	1968.419
<b>72.5</b>	1803.880	1913.976
<b>75.0</b>	1502.629	1594.577
<b>77.5</b>	1250.981	1373.175
<b>80.0</b>	1157.823	1260.660
<b>82.5</b>	643.638	694.452
<b>85.0</b>	227.451	217.772
<b>87.5</b>	30.246	7.259
<b>90.0</b>	0.000	0.000

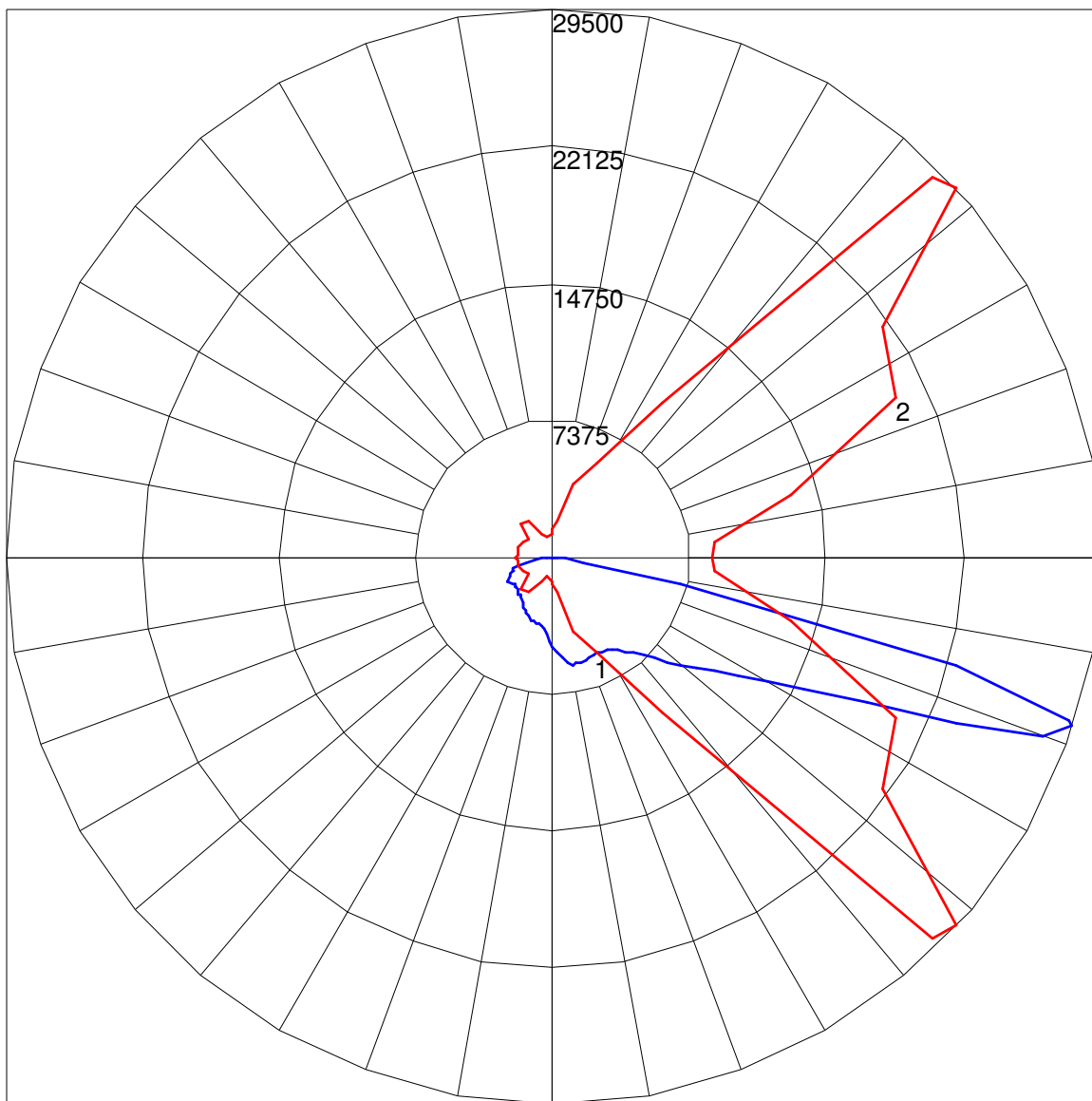
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

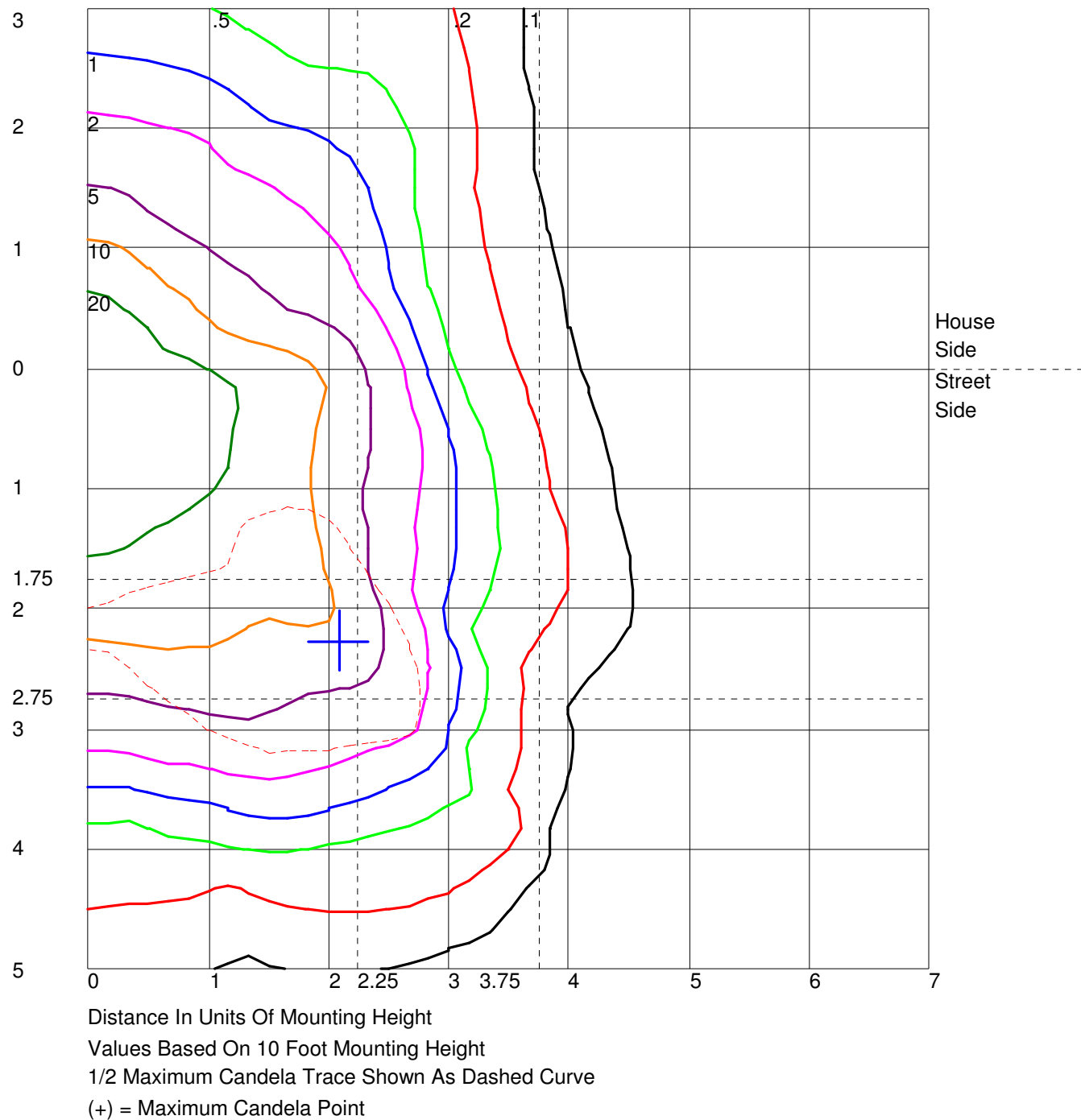
	Lumens	Percent Of Luminaire
Downward Street Side	23191.2	74.9
Downward House Side	7775.2	25.1
Downward Total	30966.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30966.4	100.0

POLAR GRAPH



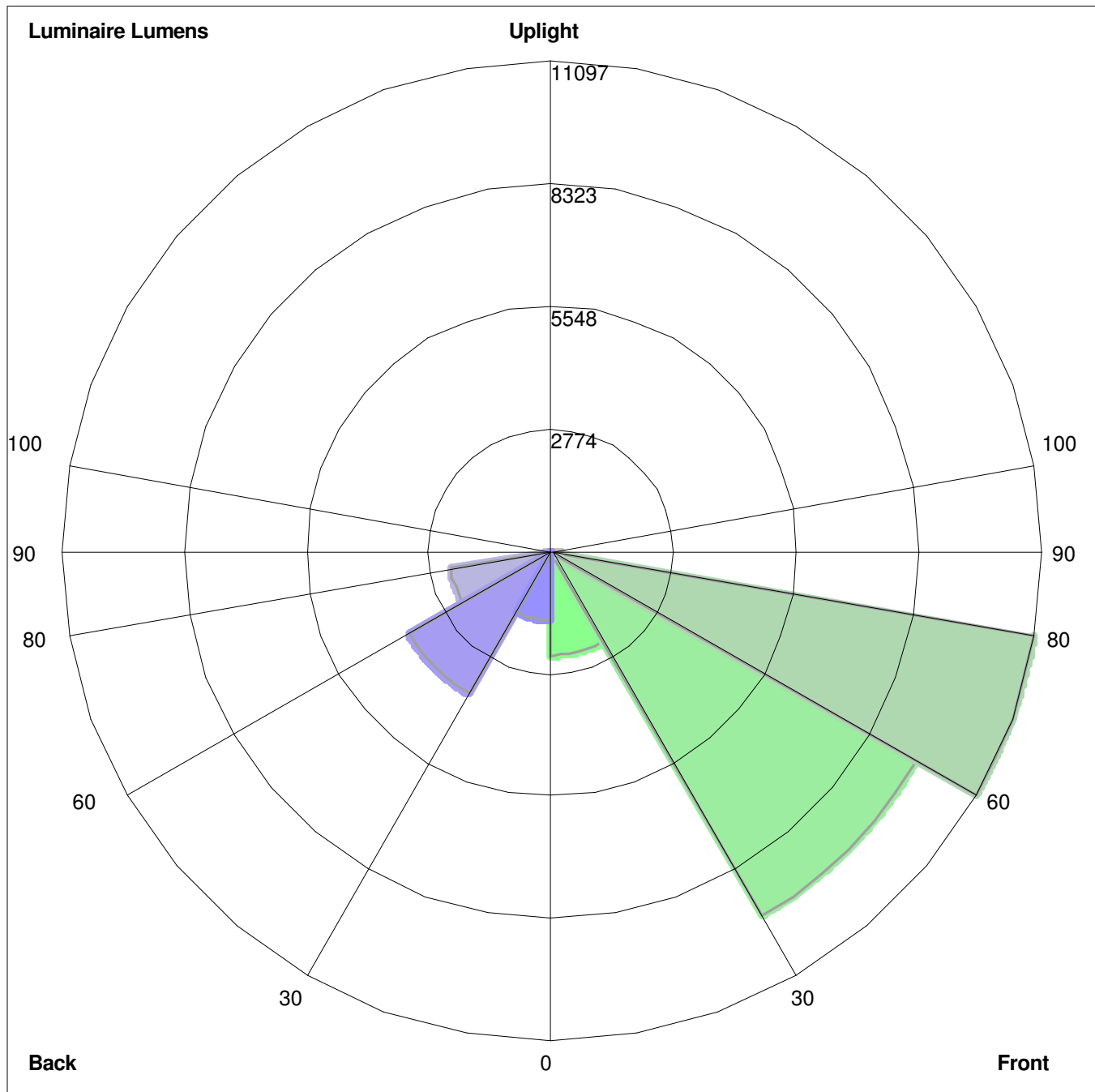
Maximum Candela = 29499.675 Located At Horizontal Angle = 42.5, Vertical Angle = 72  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2365.6, Medium=9533.8, High=11096.7, Very High=195.1  
Back: Low=1569.5, Medium= 3741.0, High=2318.6, Very High=146.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4