



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-740-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-740-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE III OPTICS, CLEAR LENS,
[MORE] (2) LED MODULES AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor, Area, Parking
[_SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	34331
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	25361.119
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	25361.119
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	5887.943 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-740-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3412.4	N.A.	9.9
FM - Front-Medium (30-60)	11935.1	N.A.	34.8
FH - Front-High (60-80)	8457.2	N.A.	24.6
FVH - Front-Very High (80-90)	283.0	N.A.	0.8
BL - Back-Low (0-30)	1837.2	N.A.	5.4
BM - Back-Medium (30-60)	4230.5	N.A.	12.3
BH - Back-High (60-80)	3787.7	N.A.	11.0
BVH - Back-Very High (80-90)	388.0	N.A.	1.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	34331.1	N.A.	100.0
BUG Rating	B4-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>45.0</u>	<u>55.0</u>	<u>62.5</u>	<u>65.0</u>	<u>75.0</u>	
0.0	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	
2.5	7393.633	7381.033	7381.033	7393.633	7358.353	7328.113	7324.334	7300.394	7280.234	7238.654	
5.0	7694.771	7701.071	7694.771	7684.691	7639.332	7590.192	7563.732	7485.612	7460.413	7355.833	
7.5	7745.171	7757.771	7756.511	7765.331	7766.591	7760.291	7747.691	7658.231	7634.292	7479.313	
10.0	7697.291	7699.811	7697.291	7714.931	7745.171	7793.051	7838.410	7798.091	7781.711	7615.392	
12.5	7682.171	7682.171	7665.791	7679.651	7716.191	7779.191	7862.350	7885.030	7891.330	7755.251	
15.0	7747.691	7735.091	7707.371	7693.511	7722.491	7788.011	7879.990	7950.550	7965.669	7903.930	
17.5	7873.690	7876.210	7839.670	7796.831	7790.531	7839.670	7931.650	8031.189	8046.309	8058.909	
20.0	8043.789	8051.349	8018.589	7969.449	7948.030	7953.070	8037.489	8149.628	8172.308	8236.568	
22.5	8179.868	8203.808	8179.868	8167.268	8153.408	8150.888	8215.148	8309.647	8344.927	8419.267	
25.0	8294.527	8297.047	8288.227	8318.467	8376.427	8392.807	8436.906	8496.126	8538.966	8595.665	
27.5	8405.407	8385.247	8356.267	8411.707	8560.386	8670.005	8696.465	8714.105	8733.005	8765.764	
30.0	8502.426	8487.306	8450.766	8454.546	8653.625	8956.023	9008.943	8977.443	8959.803	8945.943	
32.5	8516.286	8504.946	8518.806	8557.866	8722.925	9224.401	9360.481	9248.341	9219.361	9100.922	
35.0	8493.606	8491.086	8541.486	8666.225	8940.903	9475.140	9757.378	9599.879	9510.420	9252.121	
37.5	8440.686	8434.386	8521.326	8816.164	9313.861	9803.998	10207.195	99980.397	9827.938	9354.181	
40.0	8342.407	8365.087	8501.166	9084.542	10145.456	10849.791	10819.551	10389.894	10195.855	9465.060	
42.5	8298.307	8324.767	8450.766	9030.363	10365.954	11924.564	12099.703	11227.789	10846.011	9641.459	
45.0	8693.945	8700.245	8639.765	9019.023	10176.955	11879.205	13108.957	12621.340	12201.763	10193.335	
47.5	9539.399	9526.800	9477.660	9560.819	10218.535	11552.867	13213.536	13512.154	13364.735	11549.087	
50.0	9501.600	9475.140	9759.898	10309.255	10822.071	111472.227	12777.579	13475.614	13432.775	12180.343	
52.5	8811.124	8827.504	9381.900	10334.454	11552.867	12075.763	12549.520	13009.417	13045.957	11914.484	
55.0	6947.596	7037.055	8191.208	10105.136	12126.163	13677.213	13228.656	13165.656	13234.956	12167.743	
57.5	5121.867	5223.927	6398.239	8996.343	12295.002	15835.579	15116.124	14123.250	14043.871	12744.819	
60.0	4043.314	4110.094	4809.389	6533.059	11130.769	17642.408	18912.480	15906.139	15615.081	13783.053	
62.5	3132.340	3112.180	3476.318	4267.593	8430.606	16985.952	23318.672	19018.319	18132.545	15371.902	
65.0	2202.466	2222.626	2435.565	2804.742	5017.288	15162.744	24120.027	23115.813	21692.022	17403.010	
67.5	1901.328	1912.668	2168.446	2270.506	2651.023	10421.394	21926.381	25361.119	24495.505	18855.780	
70.0	1517.030	1481.751	1824.468	1981.967	1959.288	4659.450	18074.585	23569.410	24194.366	19436.637	
72.5	1078.553	1040.753	1171.793	1669.489	1506.950	2417.925	11585.626	18862.080	20118.292	18177.905	
75.0	822.775	812.695	835.375	1276.372	1210.852	1467.891	5021.068	12636.460	13921.652	12979.178	
77.5	550.617	545.577	566.996	841.675	1014.294	980.274	2041.187	5929.522	7256.294	8455.806	
80.0	345.238	335.158	366.658	524.157	874.434	629.996	990.354	2187.346	3442.298	5887.943	
82.5	180.179	181.439	202.859	304.918	597.236	354.058	502.737	797.575	1173.053	2992.481	
85.0	70.560	70.560	81.899	132.299	214.199	141.119	191.519	254.518	331.378	686.696	
87.5	8.820	10.080	12.600	20.160	27.720	20.160	31.500	31.500	41.580	45.360	
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	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	7110.135	
2.5	7174.394	7168.095	7123.995	7058.475	6979.096	6892.156	6844.277	6790.097	6704.417	6682.998	
5.0	7215.974	7160.535	7074.855	6918.616	6747.257	6553.218	6408.319	6267.200	6139.941	6060.562	
7.5	7278.974	7178.174	7048.395	6792.617	6505.339	6171.441	5851.403	5523.805	5192.427	4949.249	
10.0	7363.393	7208.414	7042.095	6676.698	6239.480	5677.524	5002.168	4362.092	3861.875	3623.737	
12.5	7461.673	7256.294	7052.175	6560.778	5924.482	4969.408	3994.175	3500.258	3332.679	3286.059	
15.0	7581.372	7330.633	7082.415	6449.899	5509.945	4161.754	3461.198	3309.999	3263.379	3241.959	
17.5	7728.791	7431.433	7135.335	6331.460	4974.448	3613.657	3346.539	3277.239	3240.699	3225.580	
20.0	7895.110	7563.732	7212.194	6206.721	4386.032	3404.498	3309.999	3259.599	3218.020	3187.780	
22.5	8079.069	7712.411	7296.614	6058.042	3911.015	3352.839	3283.539	3224.320	3166.360	3112.180	
25.0	8259.248	7856.050	7372.213	5864.003	3619.957	3326.379	3240.699	3153.760	3080.680	3020.201	
27.5	8443.206	8008.509	7442.773	5622.084	3480.098	3294.879	3168.880	3073.120	2996.261	2924.441	

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CANDELA TABULATION - (Cont.)

30.0	8624.645	8164.748	7522.152	5349.926	3417.098	3243.219	3085.720	2976.101	2900.502	2836.242
32.5	8784.664	8299.567	7592.712	5057.608	3367.959	3172.660	2997.521	2875.302	2808.522	2756.863
35.0	8899.324	8385.247	7636.812	4767.810	3304.959	3086.980	2906.802	2771.982	2716.543	2663.623
37.5	8932.083	8400.367	7636.812	4514.551	3231.879	2992.481	2816.082	2672.443	2619.523	2562.824
40.0	8967.363	8418.007	7626.732	4319.253	3162.580	2901.762	2731.663	2582.984	2526.284	2456.984
42.5	9012.723	8420.527	7617.912	4163.014	3110.920	2821.122	2645.983	2503.604	2415.405	2344.845
45.0	9277.321	8644.805	7788.011	4096.234	3058.001	2753.083	2582.984	2433.045	2298.225	2230.186
47.5	10184.515	9388.200	8481.006	4436.432	3146.200	2714.023	2542.664	2396.505	2222.626	2165.926
50.0	10685.992	9903.537	8949.723	4949.249	3631.297	2838.762	2542.664	2425.485	2269.246	2320.905
52.5	10417.614	9662.879	8707.805	4678.350	3813.996	3273.459	2618.263	2464.544	2479.664	2817.342
55.0	10698.592	9976.617	9109.742	4755.210	3366.699	3126.040	2901.762	2478.404	2722.843	3375.519
57.5	11225.269	10577.633	9884.637	5569.165	3296.139	2711.503	2644.723	2508.644	2841.282	3662.797
60.0	11996.384	11276.928	10901.451	6831.677	3361.659	2550.224	2304.525	2289.405	2790.882	3512.858
62.5	12938.858	12100.963	11864.085	8143.328	3559.477	2431.785	2119.307	2113.007	2648.503	3134.860
65.0	13885.112	12591.100	12244.602	8798.524	3975.275	2332.245	1958.028	1969.368	2477.144	2758.122
67.5	14239.170	12742.299	12421.001	9040.443	4461.632	2212.546	1792.969	1809.349	2251.606	2363.745
70.0	14114.430	12807.819	12688.119	8929.563	4919.009	2071.427	1597.670	1607.750	1976.927	2058.827
72.5	12777.579	11852.745	11852.745	8503.686	5230.227	1949.208	1380.951	1392.291	1698.469	1733.749
75.0	8677.565	7973.229	8080.329	6992.956	5201.247	1857.228	1162.973	1179.353	1418.751	1367.091
77.5	5358.746	4813.169	4873.649	5622.084	4896.329	1766.509	934.914	951.294	1120.133	790.015
80.0	4111.354	3561.997	3687.997	4402.412	4392.332	1650.590	689.216	710.635	808.915	379.258
82.5	1925.268	1747.609	1951.728	2654.803	3470.018	1451.511	372.958	456.117	454.857	239.398
85.0	260.818	248.218	342.718	908.454	1989.527	939.954	163.799	182.699	144.899	113.399
87.5	30.240	26.460	30.240	63.000	515.337	325.078	35.280	37.800	28.980	22.680
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

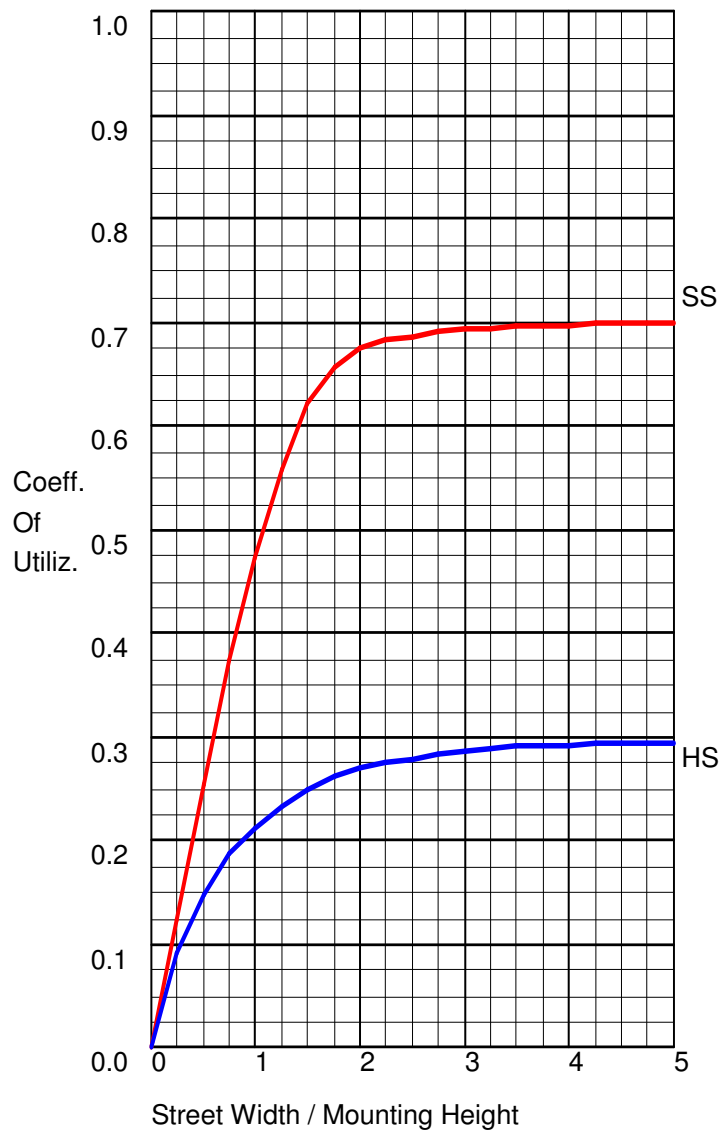
Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	7110.135	7110.135
2.5	6713.237	6718.277
5.0	6029.062	6036.622
7.5	4842.149	4843.409
10.0	3544.358	3538.058
12.5	3272.199	3265.899
15.0	3235.659	3234.399
17.5	3219.280	3216.760
20.0	3177.700	3172.660
22.5	3094.540	3086.980
25.0	2989.961	2992.481
27.5	2880.342	2882.862
30.0	2785.842	2787.102
32.5	2696.383	2696.383
35.0	2608.183	2606.923
37.5	2519.984	2509.904
40.0	2412.885	2402.805
42.5	2291.925	2283.106
45.0	2187.346	2182.306
47.5	2130.646	2130.646
50.0	2338.545	2368.785
52.5	2963.501	3012.641
55.0	3671.617	3728.316
57.5	4130.254	4233.573
60.0	3864.395	3879.515
62.5	3263.379	3224.320
65.0	2706.463	2710.243

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-740-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	2182.306	2162.146
70.0	1819.428	1806.829
72.5	1499.390	1483.011
75.0	1030.673	1023.114
77.5	573.296	569.516
80.0	383.038	372.958
82.5	244.438	244.438
85.0	90.719	75.600
87.5	10.080	3.780
90.0	0.000	0.000

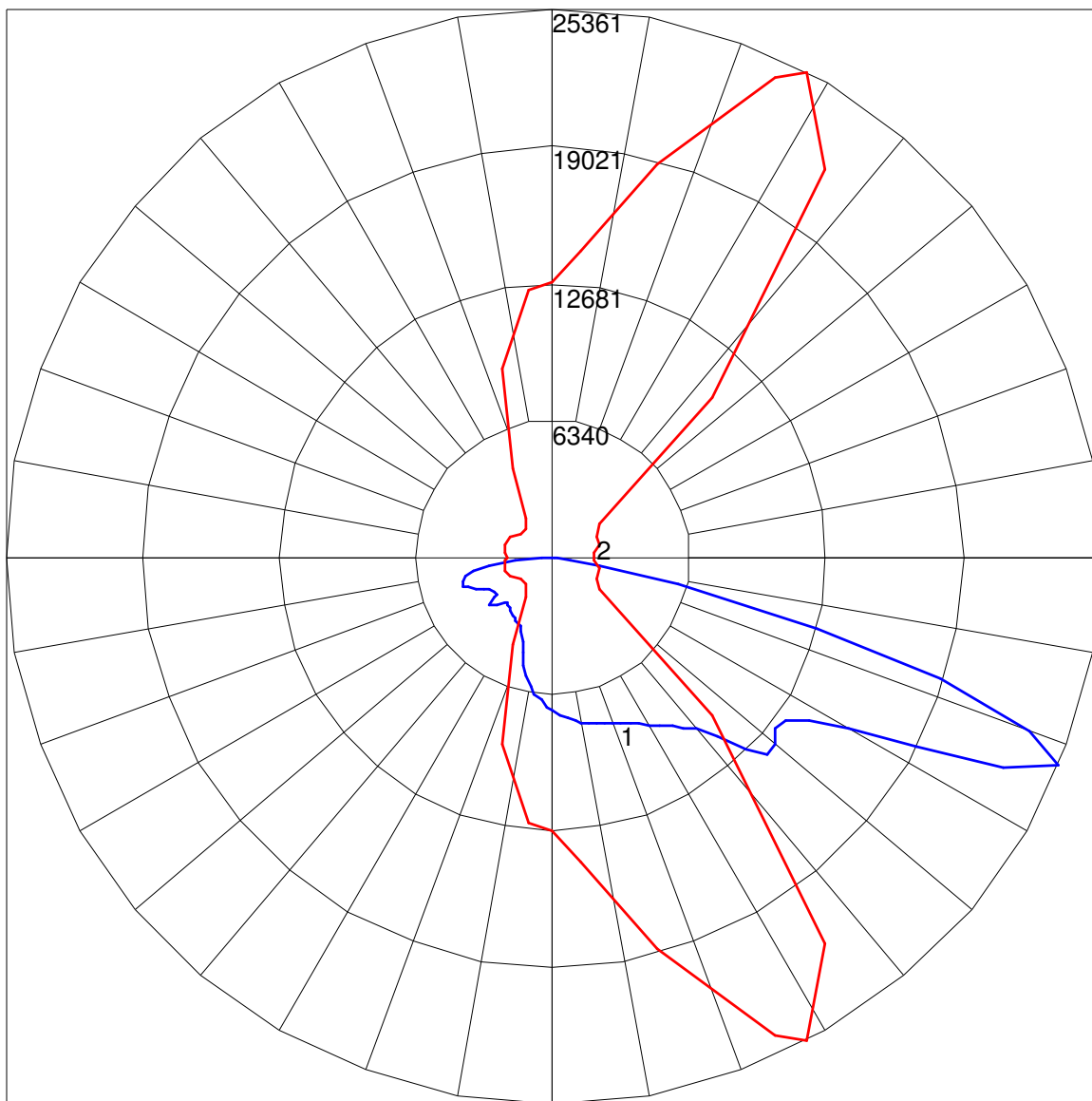
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

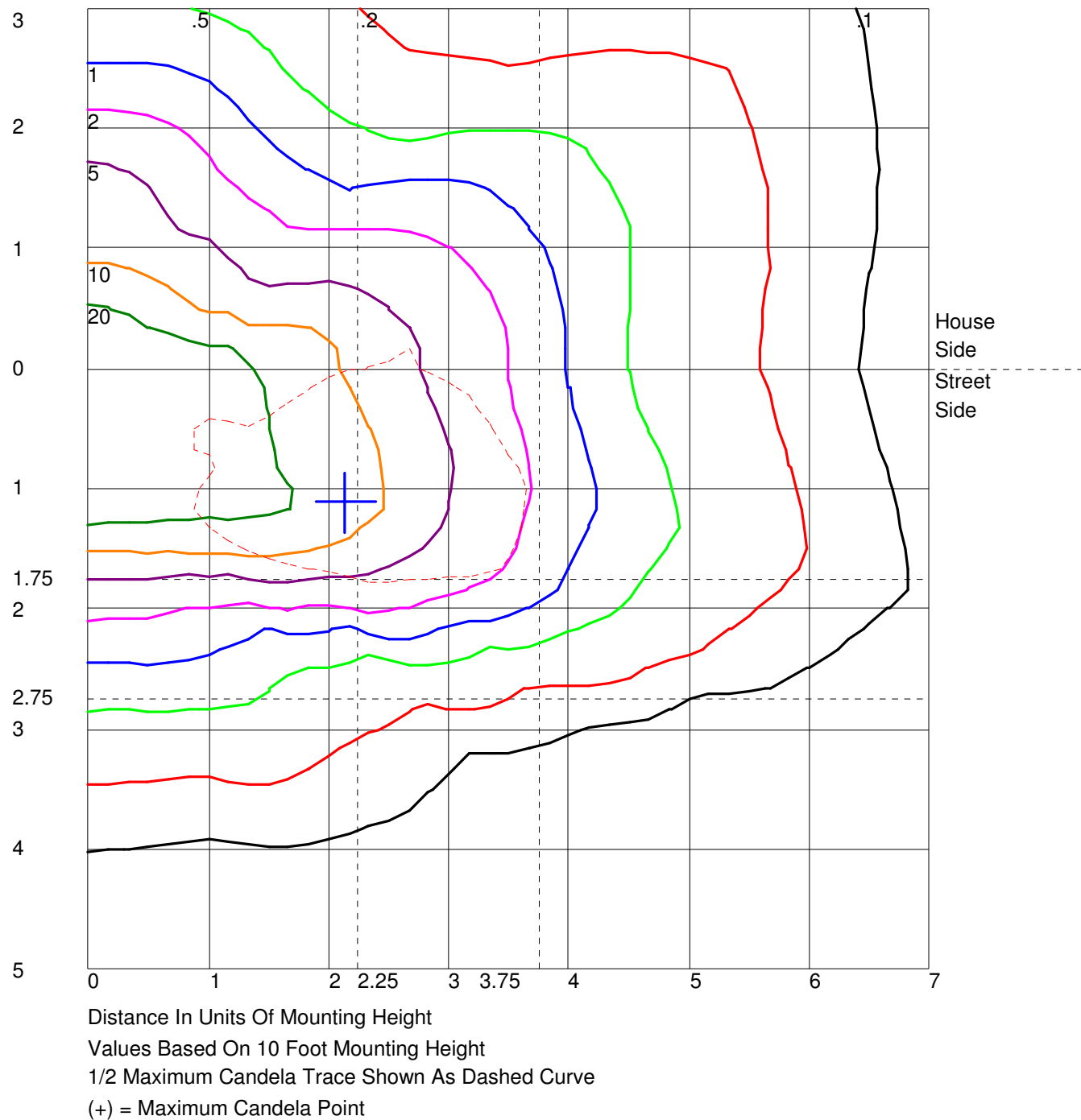
	Lumens	Percent Of Luminaire
Downward Street Side	24087.7	70.2
Downward House Side	10243.4	29.8
Downward Total	34331.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	34331.1	100.0

POLAR GRAPH

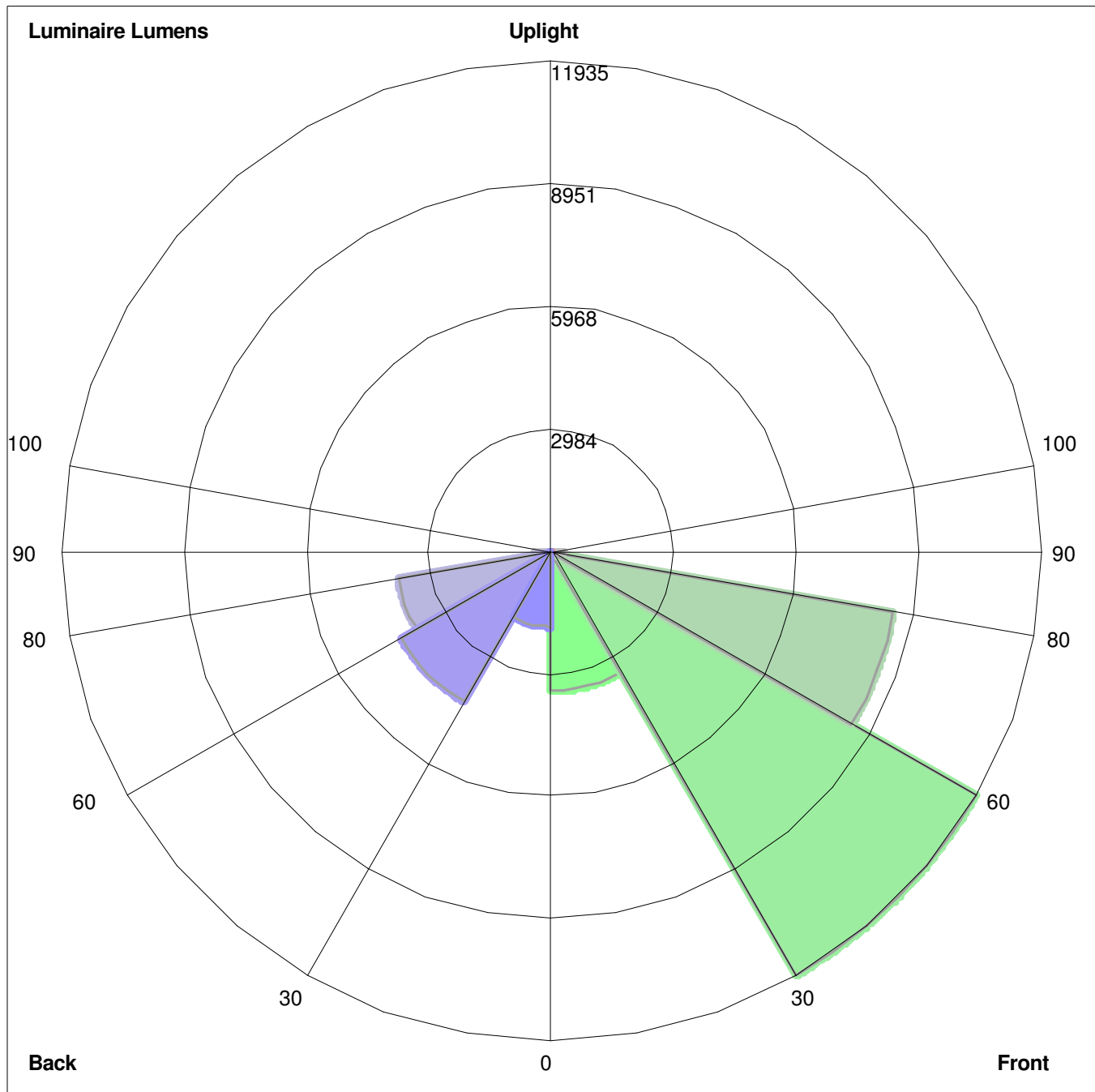


Maximum Candela = 25361.119 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3412.4, Medium=11935.1, High=8457.2, Very High=283.0
Back: Low=1837.2, Medium=4230.5, High=3787.7, Very High=388.0
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4