



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-730-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-L330-730-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	31241
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23078.623
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	23078.623
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	5358.029 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-730-T3-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3105.3	N.A.	9.9
FM - Front-Medium (30-60)	10860.9	N.A.	34.8
FH - Front-High (60-80)	7696.0	N.A.	24.6
FVH - Front-Very High (80-90)	257.5	N.A.	0.8
BL - Back-Low (0-30)	1671.9	N.A.	5.4
BM - Back-Medium (30-60)	3849.7	N.A.	12.3
BH - Back-High (60-80)	3446.8	N.A.	11.0
BVH - Back-Very High (80-90)	353.1	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	31241.2	N.A.	100.0
BUG Rating	B4-U0-G4		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA2-L330-730-T3-F-S-XXX-DIM-UNV\_.IES**

**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224
2.5	6728.208	6716.742	6716.742	6728.208	6696.103	6668.585	6665.145	6643.360	6625.014	6587.177
5.0	7002.243	7007.976	7002.243	6993.071	6951.793	6907.076	6882.998	6811.909	6788.977	6693.810
7.5	7048.107	7059.573	7058.426	7066.453	7067.599	7061.866	7050.400	6968.992	6947.207	6806.176
10.0	7004.536	7006.830	7004.536	7020.589	7048.107	7091.678	7132.955	7096.264	7081.358	6930.008
12.5	6990.777	6990.777	6975.872	6988.484	7021.735	7079.065	7154.740	7175.379	7181.112	7057.280
15.0	7050.400	7038.934	7013.709	7001.097	7027.468	7087.091	7170.792	7235.002	7248.761	7192.578
17.5	7165.059	7167.353	7134.101	7095.117	7089.384	7134.101	7217.803	7308.384	7322.143	7333.609
20.0	7319.850	7326.729	7296.918	7252.201	7232.708	7237.295	7314.117	7416.163	7436.802	7495.278
22.5	7443.682	7465.467	7443.682	7432.216	7419.603	7417.310	7475.786	7561.781	7593.885	7661.534
25.0	7548.022	7550.315	7542.289	7569.807	7622.550	7637.456	7677.587	7731.476	7770.461	7822.057
27.5	7648.922	7630.576	7604.205	7654.655	7789.953	7889.706	7913.785	7929.837	7947.036	7976.847
30.0	7737.209	7723.450	7690.199	7693.639	7874.801	8149.983	8198.140	8169.475	8153.423	8140.810
32.5	7749.822	7739.503	7752.115	7787.659	7937.863	8394.207	8518.039	8415.992	8389.621	8281.841
35.0	7729.183	7726.890	7772.754	7886.266	8136.224	8622.379	8879.216	8735.892	8654.484	8419.432
37.5	7681.026	7675.293	7754.408	8022.711	8475.615	8921.640	9288.550	9082.163	8943.425	8512.306
40.0	7591.592	7612.231	7736.063	8266.935	9232.367	9873.312	9845.794	9454.806	9278.230	8613.206
42.5	7551.461	7575.540	7690.199	8217.632	9433.020	10851.356	101010.732	10217.290	9869.872	8773.729
45.0	7911.492	7917.224	7862.188	8207.313	9261.031	10810.079	11929.153	11485.422	11103.606	9275.937
47.5	8680.855	8669.389	8624.672	8700.347	9298.869	10513.111	12024.321	12296.063	12161.912	10509.671
50.0	8646.458	8622.379	8881.509	9381.424	9848.087	10439.729	11627.599	12262.812	12223.828	11084.114
52.5	8018.125	8033.030	8537.531	9404.356	10513.111	10988.947	11420.066	11838.572	11871.824	10842.183
55.0	6322.314	6403.722	7454.001	9195.676	11034.811	12446.267	12038.080	11980.750	12043.813	11072.648
57.5	4660.900	4753.774	5822.399	8186.674	11188.454	14410.381	13755.676	12852.161	12779.925	11597.788
60.0	3679.417	3740.186	4376.545	5945.085	10129.002	16054.595	17210.361	14474.590	14209.727	12542.581
62.5	2850.430	2832.085	3163.450	3883.510	7671.854	15457.220	1219.996	17306.674	16500.619	13988.434
65.0	2004.245	2022.590	2216.364	2552.316	4565.733	13798.100	21949.229	1035.395	19739.745	15836.742
67.5	1730.209	1740.528	1973.287	2066.161	2412.432	9483.470	19953.011	23078.623	22290.914	17158.764
70.0	1380.498	1348.393	1660.267	1803.591	1782.952	4240.101	16447.876	21448.168	22016.878	17687.343
72.5	981.484	947.086	1066.331	1519.236	1371.325	2200.312	10542.922	17164.497	18307.650	16541.897
75.0	748.725	739.552	760.191	1161.499	1101.876	1335.781	4569.173	11499.181	12668.706	11811.054
77.5	501.061	496.475	515.967	765.924	923.007	892.049	1857.481	5395.867	6603.229	7694.785
80.0	314.166	304.994	333.659	476.983	795.736	573.296	901.222	1990.485	3132.492	5358.029
82.5	163.963	165.109	184.601	277.475	543.485	322.193	457.491	725.793	1067.478	2723.158
85.0	64.209	64.209	74.529	120.392	194.921	128.418	174.282	231.612	301.554	624.893
87.5	8.026	9.173	11.466	18.345	25.225	18.345	28.665	28.665	37.838	41.277
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224	6470.224
2.5	6528.700	6522.967	6482.837	6423.214	6350.978	6271.864	6228.293	6178.990	6101.021	6081.529
5.0	6566.538	6516.088	6438.120	6295.942	6140.005	5963.430	5831.572	5703.153	5587.348	5515.112
7.5	6623.868	6532.140	6414.041	6181.283	5919.860	5616.012	5324.778	5026.664	4725.110	4503.817
10.0	6700.689	6559.658	6408.308	6075.796	5677.928	5166.548	4551.974	3969.505	3514.307	3297.601
12.5	6790.124	6603.229	6417.481	5970.310	5391.280	4522.163	3634.700	3185.235	3032.738	2990.314
15.0	6899.050	6670.878	6444.999	5869.409	5014.051	3787.197	3149.691	3012.100	2969.676	2950.184
17.5	7033.201	6762.605	6493.156	5761.630	4526.749	3288.429	3045.351	2982.288	2949.037	2935.278
20.0	7184.552	6882.998	6563.098	5648.117	3991.290	3098.094	3012.100	2966.236	2928.398	2900.880
22.5	7351.954	7018.296	6639.920	5512.819	3559.025	3051.084	2988.021	2934.131	2881.388	2832.085
25.0	7515.917	7149.007	6708.715	5336.244	3294.162	3027.005	2949.037	2869.922	2803.420	2748.383
27.5	7683.320	7287.745	6772.925	5116.098	3166.890	2998.341	2883.681	2796.540	2726.598	2661.242

# IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-730-T3-F-S-XXX-DIM-UNV\_.IES

## CANDELA TABULATION - (Cont.)

30.0	7848.429	7429.922	6845.160	4868.434	3109.560	2951.330	2808.006	2708.253	2639.457	2580.981
32.5	7994.046	7552.608	6909.369	4602.424	3064.843	2887.121	2727.745	2616.525	2555.756	2508.745
35.0	8098.386	7630.576	6949.500	4338.708	3007.513	2809.153	2645.190	2522.505	2472.054	2423.898
37.5	8128.198	7644.335	6949.500	4108.243	2941.011	2723.158	2562.635	2431.924	2383.767	2332.170
40.0	8160.302	7660.388	6940.327	3930.521	2877.948	2640.604	2485.814	2350.516	2298.919	2235.856
42.5	8201.580	7662.681	6932.301	3788.343	2830.938	2567.222	2407.845	2278.280	2198.019	2133.810
45.0	8442.364	7866.774	7087.091	3727.574	2782.781	2505.306	2350.516	2214.071	2091.386	2029.470
47.5	9267.911	8543.264	7717.717	4037.154	2863.043	2469.761	2313.825	2180.820	2022.590	1970.993
50.0	9724.255	9012.221	8144.250	4503.817	3304.481	2583.274	2313.825	2207.191	2065.014	2112.024
52.5	9480.031	8793.222	7924.104	4257.300	3470.737	2978.849	2382.620	2242.736	2256.495	2563.782
55.0	9735.721	9078.723	8289.867	4327.242	3063.696	2844.697	2640.604	2255.348	2477.787	3071.723
57.5	10214.997	9625.648	8995.022	5067.941	2999.487	2467.468	2406.699	2282.867	2585.567	3333.146
60.0	10916.712	10262.007	9920.322	6216.827	3059.110	2320.704	2097.119	2083.359	2539.703	3196.701
62.5	11774.363	11011.879	10796.319	7410.430	3239.125	2212.924	1928.569	1922.836	2410.138	2852.723
65.0	12635.455	11457.904	11142.591	8006.659	3617.501	2122.344	1781.805	1792.125	2254.202	2509.892
67.5	12957.647	11595.495	11303.114	8226.805	4060.086	2013.417	1631.602	1646.508	2048.962	2151.008
70.0	12844.135	11655.118	11546.191	8125.904	4476.299	1884.999	1453.880	1463.053	1799.004	1873.533
72.5	11627.599	10786.000	10786.000	7738.356	4759.507	1773.779	1256.666	1266.985	1545.607	1577.712
75.0	7896.586	7255.640	7353.101	6363.591	4733.136	1690.078	1058.305	1073.211	1291.064	1244.053
77.5	4876.460	4379.985	4435.022	5116.098	4455.660	1607.523	850.772	865.678	1019.321	718.914
80.0	3741.333	3241.418	3356.078	4006.196	3997.023	1502.037	627.186	646.678	736.113	345.124
82.5	1751.994	1590.324	1776.073	2415.871	3157.717	1320.875	339.392	415.067	413.920	217.853
85.0	237.345	225.879	311.873	826.694	1810.470	855.358	149.057	166.256	131.858	103.193
87.5	27.518	24.078	27.518	57.330	468.957	295.821	32.105	34.398	26.372	20.639
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

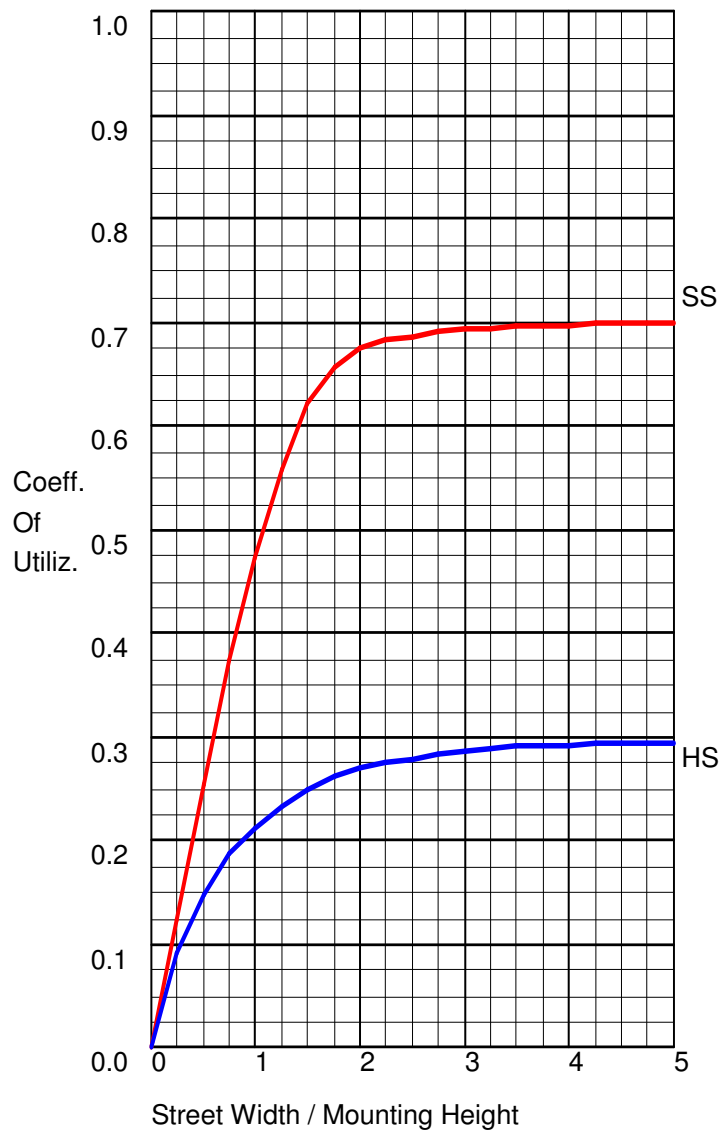
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	6470.224	6470.224
2.5	6109.047	6113.634
5.0	5486.447	5493.327
7.5	4406.357	4407.503
10.0	3225.366	3219.633
12.5	2977.702	2971.969
15.0	2944.451	2943.304
17.5	2929.545	2927.252
20.0	2891.707	2887.121
22.5	2816.032	2809.153
25.0	2720.865	2723.158
27.5	2621.112	2623.405
30.0	2535.117	2536.264
32.5	2453.709	2453.709
35.0	2373.447	2372.301
37.5	2293.186	2284.013
40.0	2195.726	2186.553
42.5	2085.653	2077.626
45.0	1990.485	1985.899
47.5	1938.889	1938.889
50.0	2128.077	2155.595
52.5	2696.787	2741.504
55.0	3341.172	3392.769
57.5	3758.532	3852.552
60.0	3516.601	3530.360
62.5	2969.676	2934.131
65.0	2462.882	2466.321

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-730-T3-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1985.899	1967.554
<b>70.0</b>	1655.680	1644.214
<b>72.5</b>	1364.446	1349.540
<b>75.0</b>	937.913	931.033
<b>77.5</b>	521.700	518.260
<b>80.0</b>	348.564	339.392
<b>82.5</b>	222.439	222.439
<b>85.0</b>	82.555	68.796
<b>87.5</b>	9.173	3.440
<b>90.0</b>	0.000	0.000

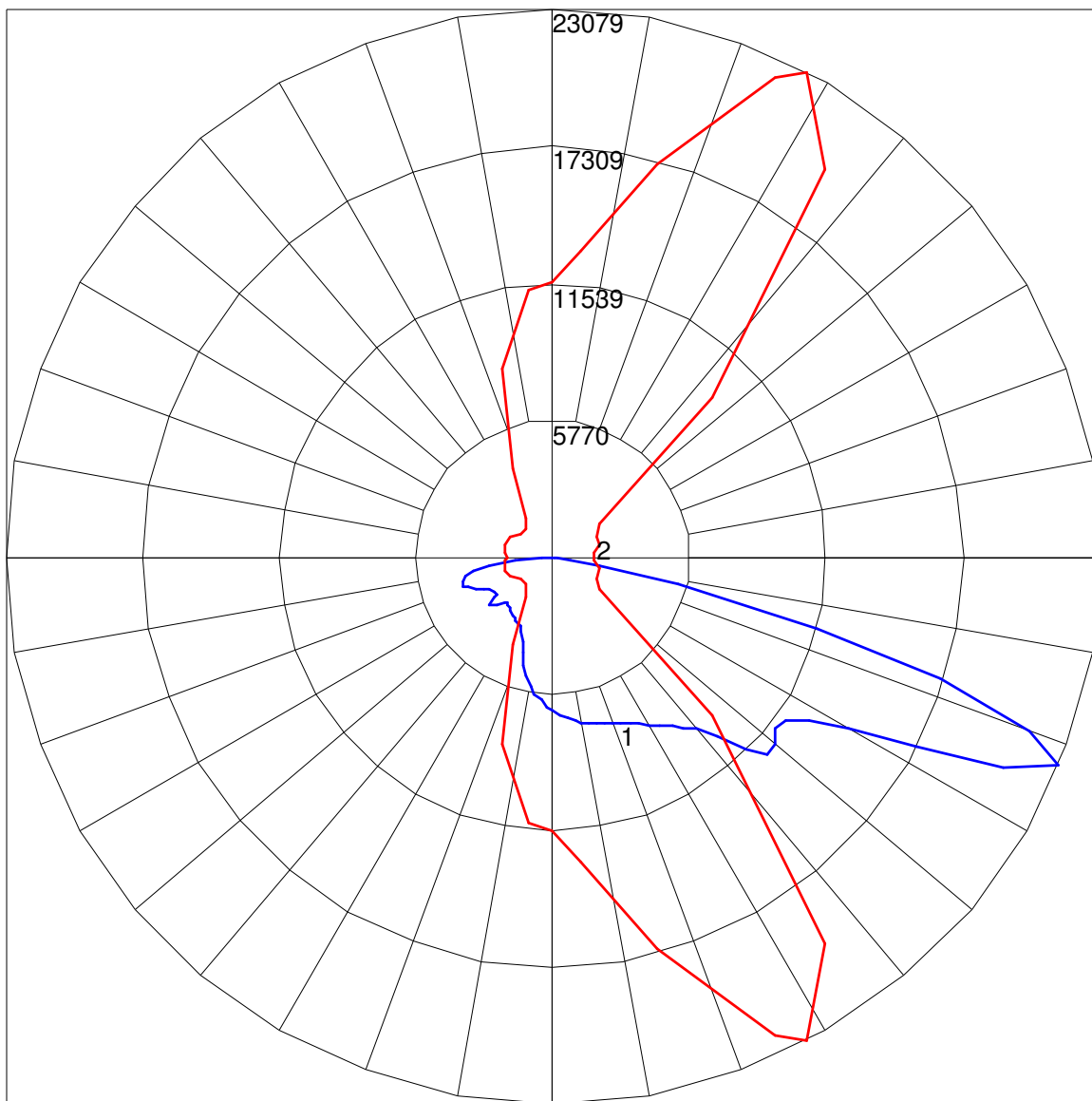
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

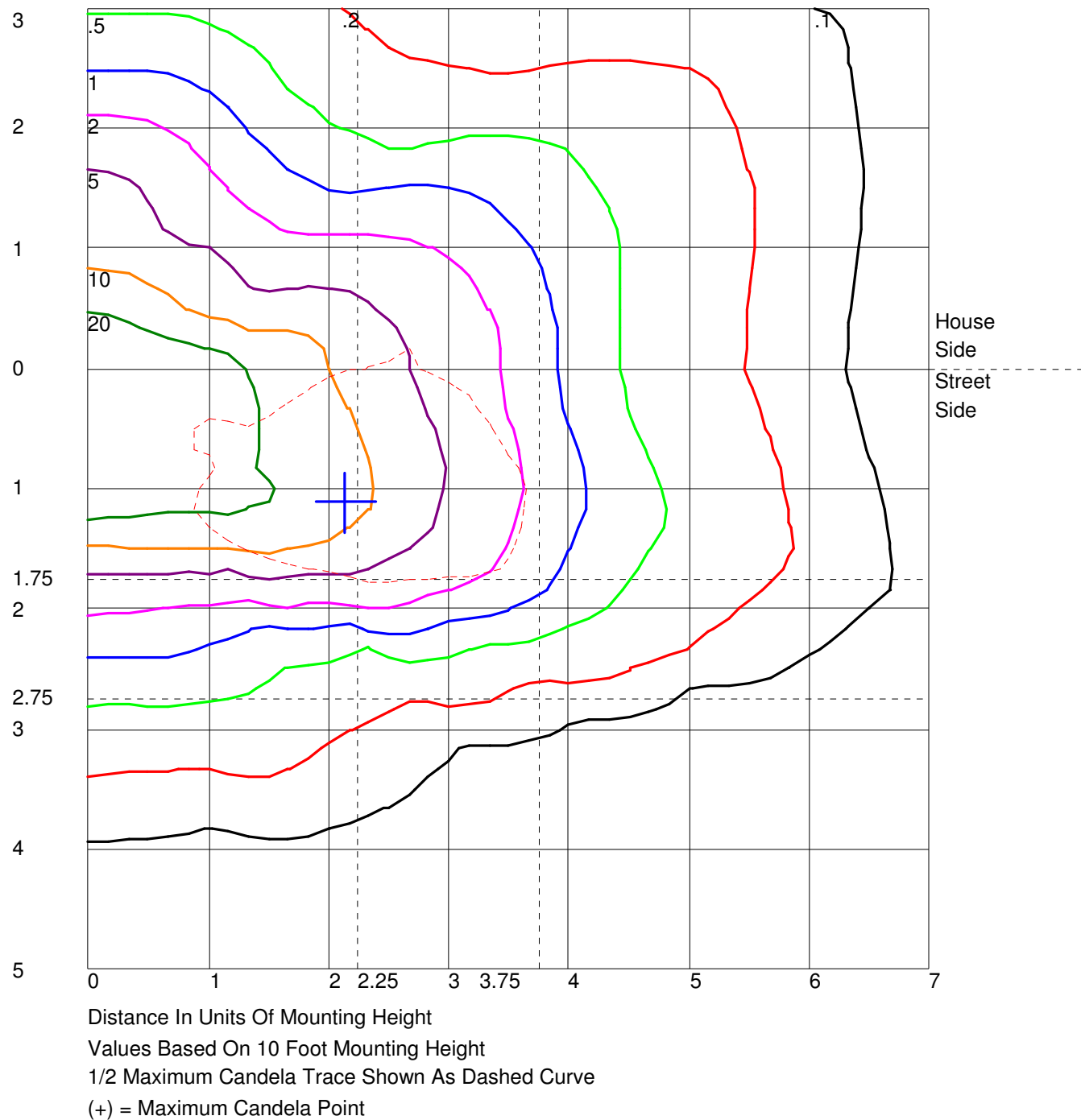
	Lumens	Percent Of Luminaire
Downward Street Side	21919.8	70.2
Downward House Side	9321.5	29.8
Downward Total	31241.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	31241.3	100.0

POLAR GRAPH



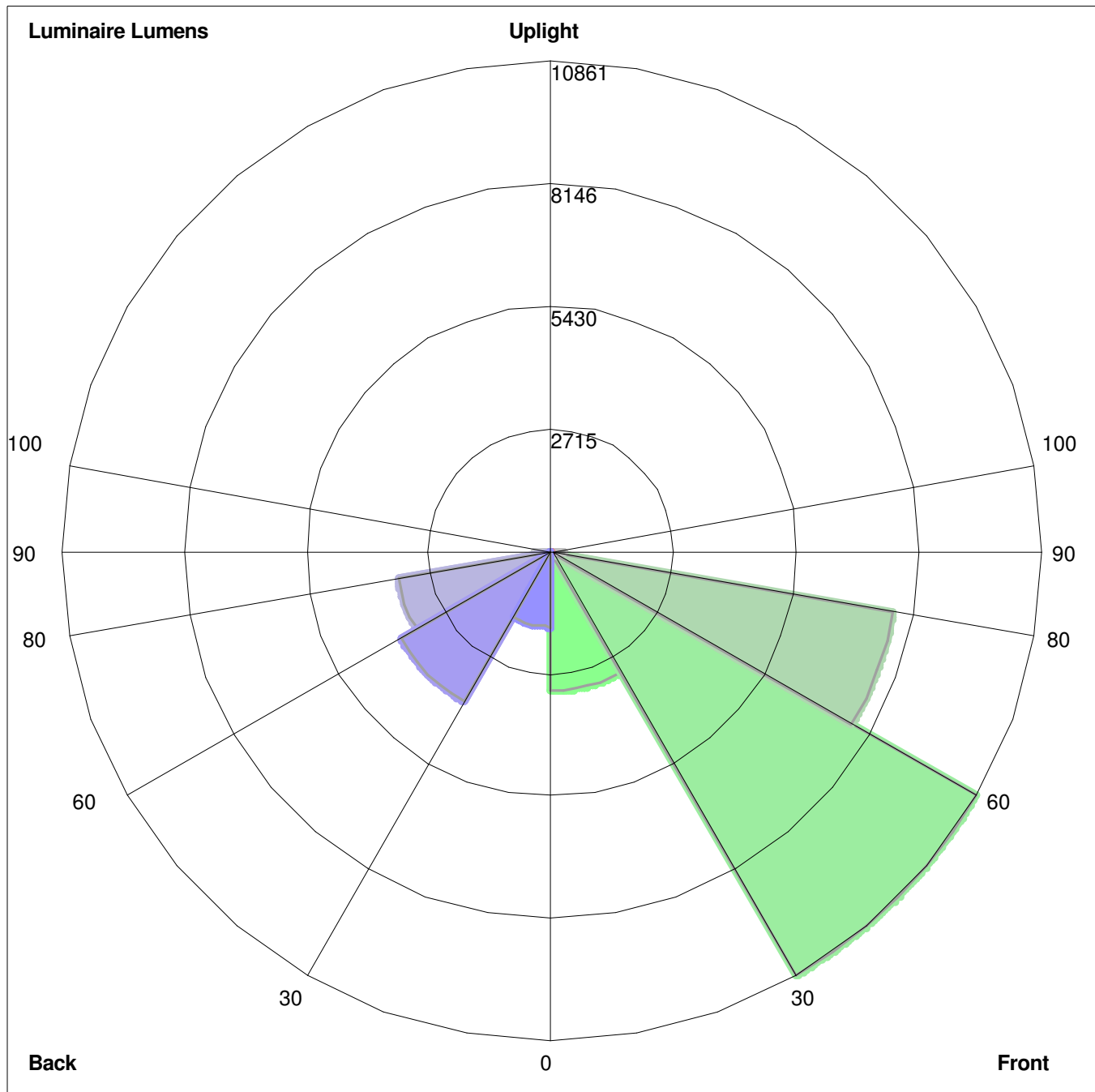
Maximum Candela = 23078.623 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=3105.3, Medium=10860.9, High= 7696.0, Very High=257.5  
Back: Low=1671.9, Medium=3849.7, High=3446.8, Very High=353.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4