



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L110-750-T3-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011760  
[TESTLAB] ATA-LABS  
[ISSUE DATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA1-L110-750-T3-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE  
[MORE] III OPTICS AND CLEAR LENS  
[LAMP] LED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor, Architectural, Area, Parking, Site  
[SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11669
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	88
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8364.072
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	8364.072
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	1705.838 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L110-750-T3-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1177.4	N.A.	10.1
FM - Front-Medium (30-60)	4078.5	N.A.	35.0
FH - Front-High (60-80)	2725.3	N.A.	23.4
FVH - Front-Very High (80-90)	83.2	N.A.	0.7
BL - Back-Low (0-30)	639.2	N.A.	5.5
BM - Back-Medium (30-60)	1515.7	N.A.	13.0
BH - Back-High (60-80)	1328.0	N.A.	11.4
BVH - Back-Very High (80-90)	121.3	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11668.6	N.A.	100.0
BUG Rating	B3-U0-G3		

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**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	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167
2.5	2559.058	2541.045	2536.842	2536.241	2523.632	2517.628	2499.014	2490.008	2482.202	2466.591
5.0	2689.352	2673.141	2664.735	2656.328	2634.713	2614.898	2581.874	2553.654	2541.045	2500.215
7.5	2736.787	2722.977	2716.372	2716.372	2709.767	2694.756	2655.728	2617.901	2603.490	2540.444
10.0	2708.566	2700.761	2694.156	2702.562	2713.370	2727.180	2715.171	2679.145	2666.536	2588.479
12.5	2686.350	2681.547	2673.741	2682.748	2694.156	2719.374	2736.186	2724.778	2719.374	2640.117
15.0	2694.756	2691.154	2679.145	2679.745	2685.750	2710.968	2742.191	2753.599	2757.802	2701.962
17.5	2737.988	2734.385	2717.573	2707.966	2700.761	2719.975	2754.800	2779.418	2789.625	2763.807
20.0	2792.027	2793.828	2772.813	2762.606	2745.793	2754.200	2783.020	2814.844	2825.051	2825.051
22.5	2849.068	2849.068	2832.857	2825.651	2816.044	2814.844	2831.055	2864.680	2872.485	2886.896
25.0	2893.501	2894.101	2885.095	2884.494	2894.101	2896.503	2898.304	2920.520	2929.527	2946.939
27.5	2930.728	2933.129	2919.319	2930.728	2965.553	2988.970	2985.367	2984.166	2993.773	3005.782
30.0	2972.158	2969.756	2954.745	2957.747	3018.992	3091.645	3089.243	3061.623	3063.424	3065.225
32.5	2975.760	2976.361	2973.959	2984.166	3052.016	3195.520	3203.926	3158.893	3146.885	3124.068
35.0	2952.343	2955.946	2970.957	3015.990	3102.452	3290.389	3346.830	3277.179	3250.160	3178.107
37.5	2919.920	2925.324	2948.741	3056.219	3232.147	3390.061	3505.345	3409.876	3357.638	3215.334
40.0	2883.293	2892.300	2932.529	3157.092	3572.594	3783.947	3720.901	3561.185	3485.530	3253.762
42.5	2831.055	2847.868	2897.704	3102.452	3579.198	4177.833	4252.888	3873.412	3725.705	3316.808
45.0	2933.129	2941.536	2918.119	3056.819	3486.731	4124.394	4603.542	4458.237	4288.313	3541.971
47.5	3232.147	3223.740	3184.712	3209.930	3454.908	3973.084	4594.536	4728.433	4687.003	4117.789
50.0	3221.339	3209.330	3284.384	3454.908	3602.615	3916.043	4370.573	4608.346	4595.736	4192.844
52.5	2934.931	2924.723	3110.858	3473.522	3856.600	4088.969	4278.706	4426.414	4431.217	4063.150
55.0	2265.445	2282.857	2631.711	3334.221	4069.755	4593.335	4533.291	4509.274	4509.874	4159.220
57.5	1696.231	1741.865	2054.091	2859.876	4076.960	5366.696	5229.797	4849.721	4796.883	4332.145
60.0	1368.393	1395.413	1569.539	2006.657	3532.965	5841.641	6537.546	5521.008	5354.687	4685.201
62.5	988.918	1014.737	1109.005	1316.156	2457.584	5510.200	7808.069	6693.660	6321.990	5282.635
65.0	791.975	807.586	867.029	915.064	1374.398	4549.503	7876.518	7927.555	7503.047	6015.167
67.5	693.503	697.707	776.964	788.973	844.213	2564.462	7011.891	8364.072	8263.799	6458.889
70.0	549.999	539.792	654.475	689.300	652.674	1253.110	5315.059	7501.246	7740.219	6545.952
72.5	387.281	377.074	422.106	586.025	514.574	712.117	2942.136	5710.146	6149.064	5906.488
75.0	299.017	296.015	300.218	451.528	426.910	461.735	1287.335	3466.317	3917.244	3943.663
77.5	206.550	204.148	208.952	300.818	363.864	318.231	553.001	1381.603	1837.334	2568.665
80.0	133.297	130.895	137.500	189.738	318.231	209.552	289.410	529.584	779.966	1705.838
82.5	72.653	70.251	78.657	112.282	211.353	116.485	151.910	225.764	282.205	781.167
85.0	30.622	28.821	34.225	51.037	75.054	48.635	61.845	80.458	91.266	171.725
87.5	6.004	6.004	6.605	11.408	13.810	10.207	12.009	15.611	16.812	20.415
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	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167	2434.167
2.5	2444.975	2436.569	2428.763	2404.145	2386.132	2359.113	2333.894	2327.890	2303.272	2293.665
5.0	2452.781	2427.562	2407.148	2353.108	2299.069	2236.624	2175.379	2135.150	2079.310	2048.687
7.5	2467.792	2427.562	2393.338	2304.473	2207.803	2091.919	1968.229	1857.148	1722.050	1662.007
10.0	2490.008	2436.569	2385.532	2259.440	2107.530	1902.181	1661.406	1461.461	1322.160	1262.116
12.5	2518.829	2452.781	2383.130	2213.207	1986.242	1647.596	1349.780	1238.699	1214.682	1206.276
15.0	2556.656	2477.399	2390.335	2168.775	1831.930	1396.614	1234.496	1210.479	1202.673	1202.073
17.5	2602.289	2509.822	2405.346	2121.340	1642.192	1258.514	1217.084	1206.276	1201.472	1199.071
20.0	2652.726	2549.451	2427.562	2066.700	1456.057	1223.688	1208.677	1200.872	1187.662	1175.053
22.5	2711.569	2598.086	2453.982	2001.253	1322.760	1212.881	1196.669	1178.656	1160.643	1143.230
25.0	2775.215	2646.121	2479.800	1924.397	1262.116	1203.874	1175.053	1146.833	1125.817	1106.003
27.5	2844.865	2695.957	2499.014	1834.932	1240.501	1191.265	1146.232	1112.608	1090.992	1069.376

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## CANDELA TABULATION - (Cont.)

30.0	2916.918	2749.396	2524.233	1742.465	1225.490	1170.850	1115.610	1075.981	1053.165	1035.752
32.5	2986.568	2807.638	2553.054	1657.203	1209.878	1144.431	1082.586	1038.154	1019.540	1006.331
35.0	3038.806	2845.466	2573.468	1575.544	1188.263	1113.208	1053.165	1000.927	983.514	976.909
37.5	3058.020	2849.068	2569.265	1507.695	1161.843	1080.184	1022.542	970.304	951.090	939.082
40.0	3077.234	2858.675	2568.064	1460.861	1139.027	1048.962	996.123	940.883	916.265	900.654
42.5	3103.053	2879.090	2580.674	1426.035	1118.612	1021.942	972.706	915.665	876.636	858.623
45.0	3241.753	3025.597	2696.558	1440.446	1107.804	999.726	954.693	892.848	838.809	820.195
47.5	3622.430	3352.834	3008.784	1647.596	1193.066	994.322	943.885	886.243	818.995	803.383
50.0	3698.085	3423.085	3069.428	1779.692	1420.031	1107.804	947.488	895.250	844.213	879.639
52.5	3605.017	3333.020	2984.767	1625.380	1344.376	1258.514	1026.145	904.256	918.067	1060.970
55.0	3711.895	3458.511	3151.688	1698.633	1214.081	1107.804	1093.394	921.669	987.117	1236.298
57.5	3866.807	3642.845	3426.087	2031.875	1197.870	994.322	951.691	917.466	1019.540	1319.158
60.0	4100.977	3860.803	3764.733	2509.822	1226.691	937.881	841.211	821.997	1006.931	1256.712
62.5	4457.636	4164.623	4110.584	2977.562	1299.944	891.647	769.759	761.953	958.896	1118.612
65.0	4795.682	4353.761	4237.276	3169.101	1450.653	852.619	706.713	709.715	892.248	964.300
67.5	4919.371	4432.418	4316.534	3223.740	1625.380	801.582	643.667	647.870	792.575	840.010
70.0	4816.697	4414.405	4377.778	3167.299	1779.092	754.148	568.012	573.416	698.907	736.735
72.5	4212.658	3908.838	3959.274	2945.739	1875.762	704.912	489.956	490.556	601.637	623.252
75.0	2616.700	2455.182	2553.054	2407.148	1863.753	668.886	403.493	405.294	500.764	471.342
77.5	1750.871	1562.935	1621.177	1899.179	1740.063	631.659	320.633	317.631	387.281	253.384
80.0	1293.939	1131.822	1213.481	1457.258	1532.913	593.231	219.159	228.166	259.989	127.292
82.5	517.576	477.947	551.801	821.396	1156.440	487.554	109.880	138.100	131.495	72.052
85.0	70.851	58.242	78.657	228.166	586.025	291.211	43.832	48.035	39.629	30.622
87.5	12.609	9.607	10.808	18.614	131.495	82.860	9.007	9.007	5.404	3.002
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

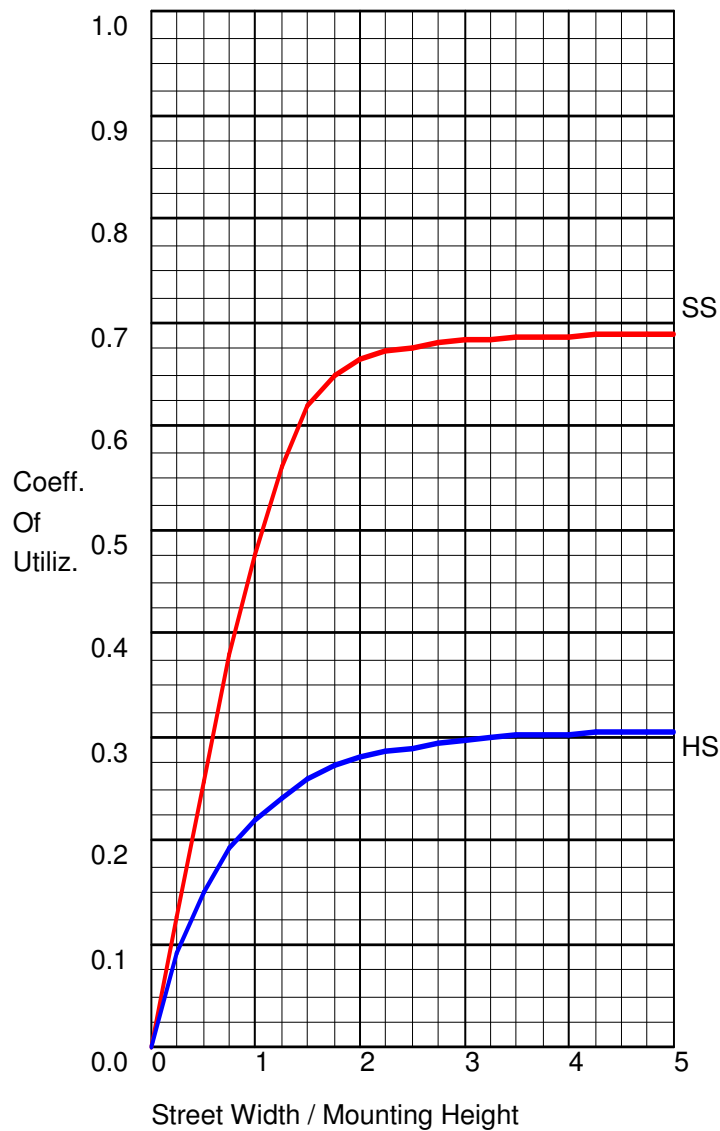
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	2434.167	2434.167
2.5	2292.464	2287.060
5.0	2042.083	2034.877
7.5	1615.773	1609.769
10.0	1242.902	1240.501
12.5	1204.474	1203.274
15.0	1203.874	1204.474
17.5	1197.870	1196.669
20.0	1169.649	1167.848
22.5	1135.424	1132.422
25.0	1096.996	1093.394
27.5	1059.169	1058.569
30.0	1026.745	1024.944
32.5	995.523	993.721
35.0	965.501	963.099
37.5	927.673	925.872
40.0	886.844	886.844
42.5	840.610	840.010
45.0	805.185	802.783
47.5	788.372	789.573
50.0	894.650	906.058
52.5	1129.420	1145.031
55.0	1376.199	1401.417
57.5	1512.498	1546.122
60.0	1374.998	1379.802
62.5	1148.634	1134.223
65.0	930.676	909.060

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L110-750-T3-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	770.960	766.757
<b>70.0</b>	653.875	649.672
<b>72.5</b>	541.593	536.189
<b>75.0</b>	349.454	346.452
<b>77.5</b>	204.148	198.744
<b>80.0</b>	133.297	130.895
<b>82.5</b>	82.860	81.659
<b>85.0</b>	17.413	16.212
<b>87.5</b>	0.600	0.000
<b>90.0</b>	0.000	0.000

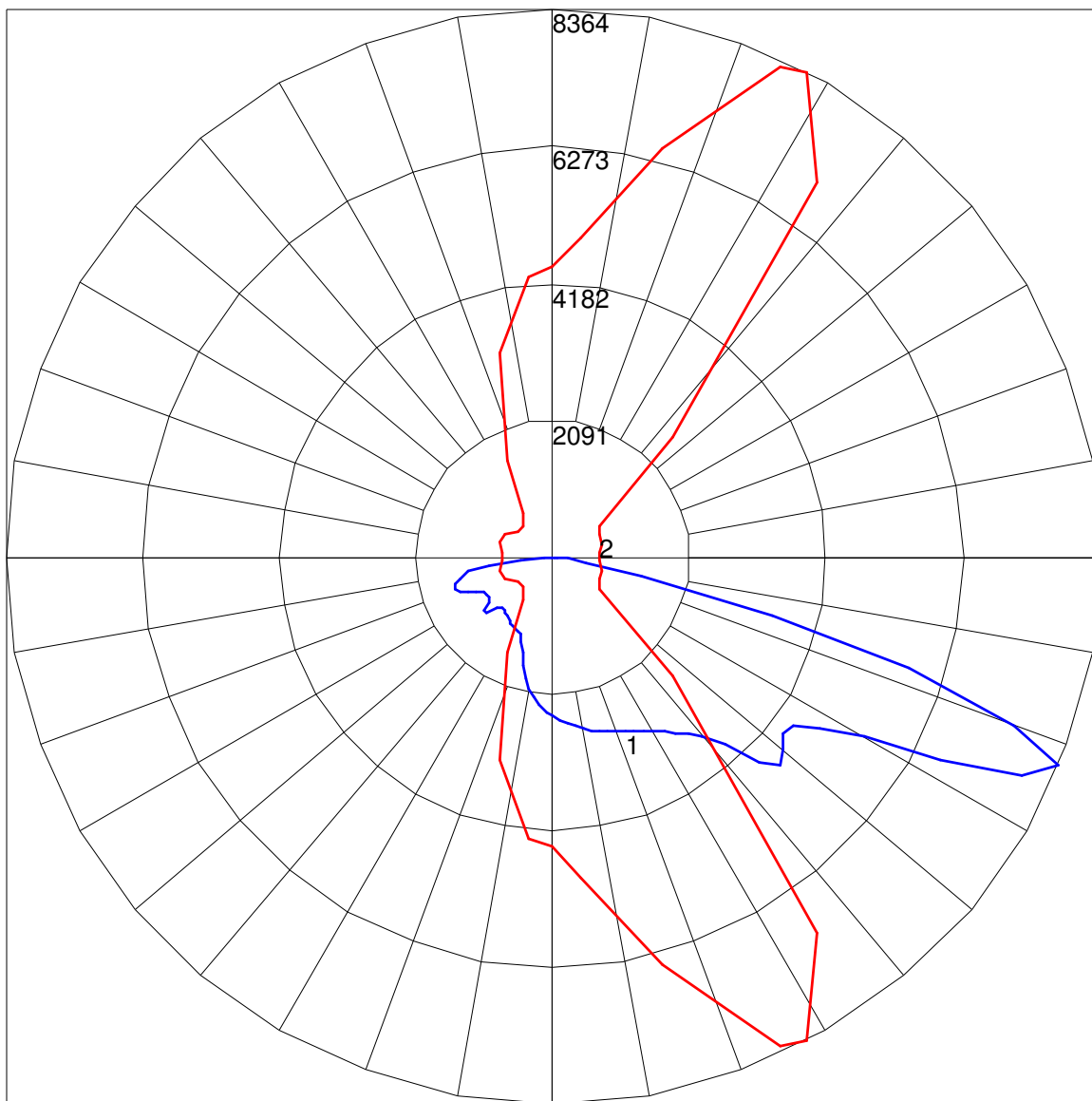
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

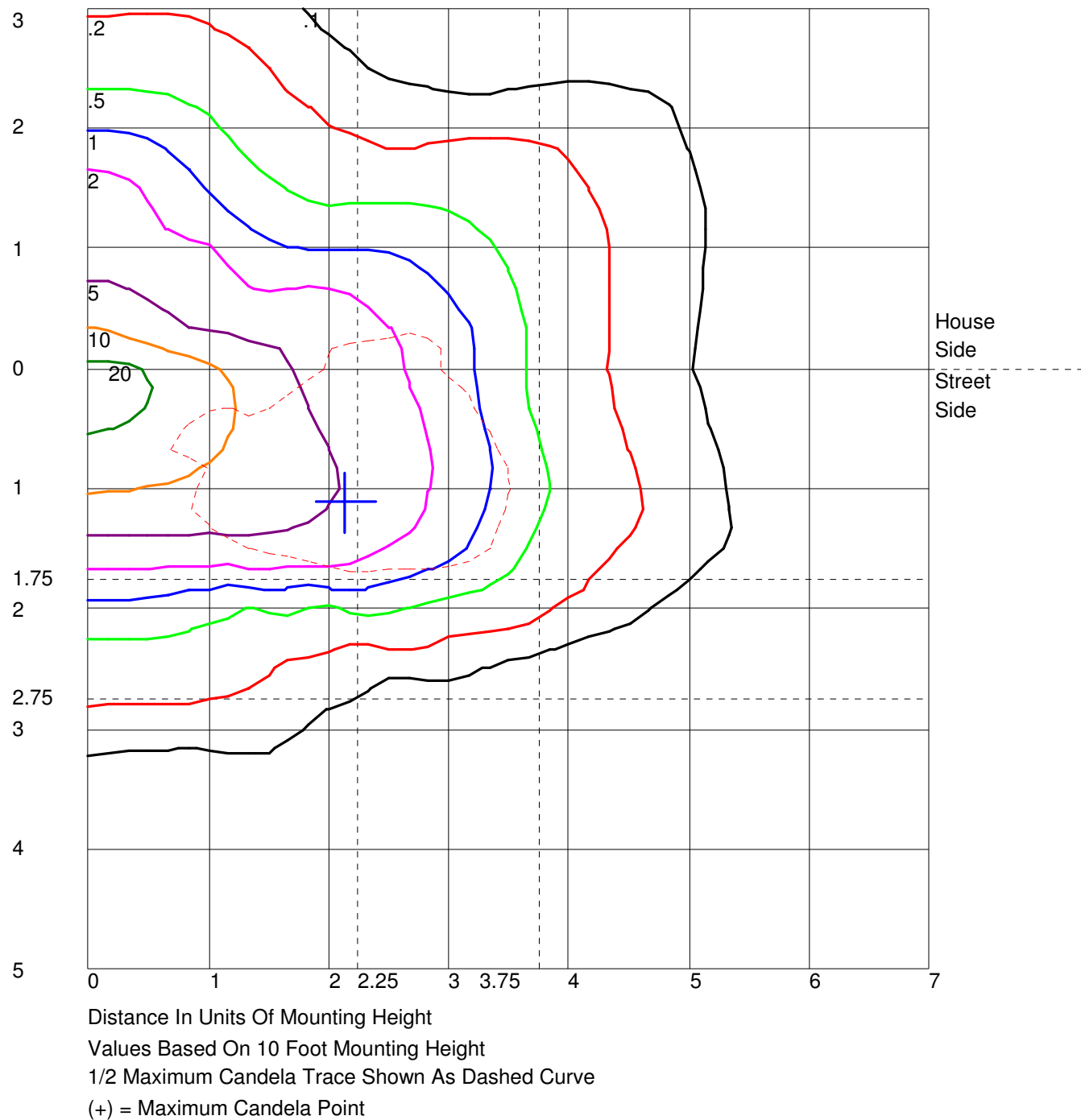
	Lumens	Percent Of Luminaire
Downward Street Side	8064.4	69.1
Downward House Side	3604.2	30.9
Downward Total	11668.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11668.6	100.0

POLAR GRAPH



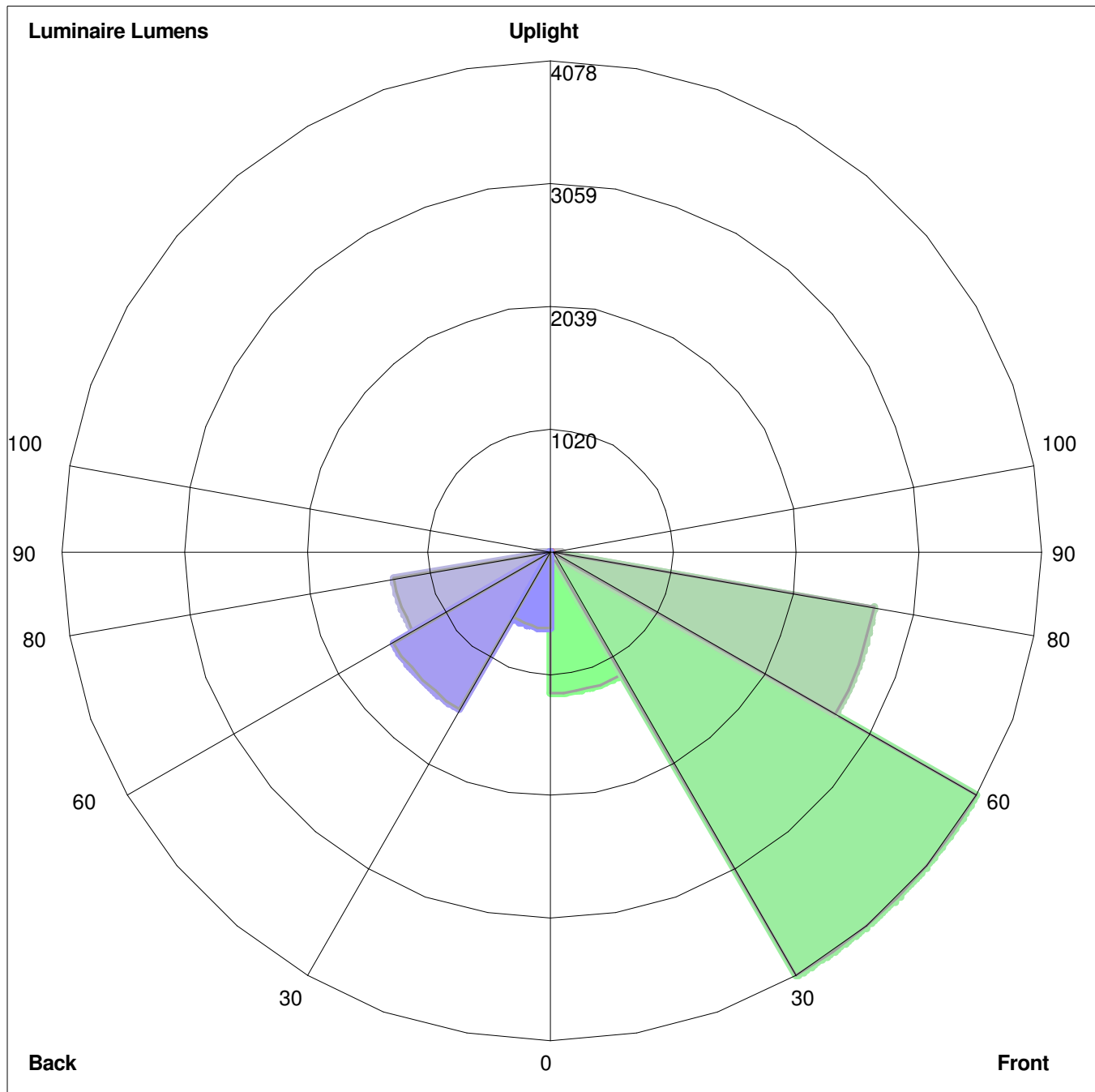
Maximum Candela = 8364.072 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1177.4, Medium=4078.5, High=2725.3, Very High=83.2  
Back: Low=639.2, Medium=1515.7, High= 1328.0, Very High=121.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3