



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-730-T2-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011757  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA1-L83-730-T2-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE II  
[MORE] OPTICS, CLEAR LENS  
[LAMP] LED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor, Architectural, Area, Parking, Site  
[SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8099
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8212.626
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	8212.626
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 68V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	313.644 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L83-730-T2-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1463.9	N.A.	18.1
FM - Front-Medium (30-60)	3546.8	N.A.	43.8
FH - Front-High (60-80)	1434.1	N.A.	17.7
FVH - Front-Very High (80-90)	20.9	N.A.	0.3
BL - Back-Low (0-30)	327.5	N.A.	4.0
BM - Back-Medium (30-60)	779.9	N.A.	9.6
BH - Back-High (60-80)	497.4	N.A.	6.1
BVH - Back-Very High (80-90)	28.3	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	8098.8	N.A.	100.0
BUG Rating	B1-U0-G1		

**IES ROAD REPORT**  
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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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154
2.5	2216.362	2174.231	2176.359	2132.525	2108.693	2067.413	2020.601	1958.468	1902.292	1881.440
5.0	2711.724	2683.637	2670.019	2595.118	2530.432	2430.423	2316.796	2180.189	2040.177	1996.343
7.5	3223.684	3198.149	3166.657	3059.414	2944.085	2785.348	2606.609	2398.931	2172.529	2115.077
10.0	3691.809	3658.615	3617.760	3499.452	3354.759	3149.209	2912.593	2612.992	2310.413	2231.257
12.5	3981.196	3966.727	3932.256	3845.865	3709.258	3489.664	3211.768	2833.437	2453.830	2355.949
15.0	3993.112	3993.112	3990.559	3997.793	3949.278	3784.158	3500.729	3087.502	2609.162	2491.705
17.5	3929.702	3927.574	3925.447	3958.641	4006.305	3986.303	3770.114	3336.034	2784.497	2645.761
20.0	3942.895	3942.469	3944.172	3947.576	3973.110	4040.776	3996.942	3606.695	2986.642	2821.521
22.5	3893.954	3898.636	3929.702	3970.982	3984.175	4019.923	4136.103	3880.336	3216.874	3023.666
25.0	3694.788	3704.151	3779.051	3917.786	3996.516	4027.157	4186.746	4148.870	3465.832	3247.515
27.5	3362.845	3373.909	3507.964	3714.790	3936.937	4051.415	4202.917	4376.975	3722.450	3480.302
30.0	3081.544	3095.162	3190.489	3403.274	3741.175	4041.627	4238.240	4554.012	3968.003	3712.662
32.5	2917.700	2931.318	3017.708	3165.381	3448.809	3949.704	4289.308	4666.362	4220.366	3936.511
35.0	2795.561	2805.349	2888.761	3026.220	3219.428	3765.858	4339.951	4726.793	4442.513	4135.677
37.5	2614.269	2622.780	2726.194	2884.505	3067.500	3568.820	4375.698	4762.540	4637.849	4316.970
40.0	2298.923	2309.987	2441.488	2650.442	2887.484	3377.314	4468.047	4796.586	4820.843	4513.583
42.5	1847.820	1857.182	2024.856	2264.877	2620.653	3120.696	4583.376	4916.171	4988.943	4688.917
45.0	1428.209	1432.039	1537.580	1724.830	2185.721	2815.563	4428.469	5317.482	5125.550	4866.805
47.5	1151.589	1150.738	1200.104	1279.260	1562.263	2374.248	3993.112	5782.629	5317.908	5073.206
50.0	1020.940	1016.258	1023.067	1041.367	1150.312	1567.370	3464.556	6026.905	5880.084	5599.209
52.5	966.467	962.211	946.465	918.377	971.574	1077.540	2626.185	6291.609	6773.778	6466.518
55.0	868.160	871.565	894.546	877.097	878.800	928.166	1582.690	6404.385	7560.230	7278.929
57.5	748.150	751.554	789.430	857.096	855.819	861.777	1255.853	5946.473	7797.697	7575.124
60.0	649.844	654.525	692.400	773.258	827.306	812.836	1179.677	5068.950	7744.501	7652.578
62.5	536.642	544.728	597.924	685.591	738.362	735.383	1080.945	4095.248	7670.026	7723.222
65.0	424.718	433.655	494.085	587.285	639.630	626.863	929.868	3026.645	7642.790	7820.678
67.5	300.452	308.112	376.203	476.211	529.833	514.938	740.490	2100.608	7944.093	8194.327
68.0	269.811	275.343	348.115	452.380	507.704	492.383	699.635	1952.510	7960.690	8212.626
70.0	218.742	221.296	243.000	359.180	420.888	408.120	543.877	1435.018	7245.309	7449.156
72.5	171.930	174.058	191.506	254.065	330.667	329.816	383.012	872.842	4872.337	4991.496
75.0	128.522	131.075	146.821	178.313	262.576	285.982	254.916	450.252	1706.105	1698.871
77.5	90.221	93.625	108.520	130.650	205.124	264.704	155.758	237.893	361.308	372.798
80.0	60.005	62.984	74.049	84.263	154.056	196.613	92.774	130.650	166.397	170.228
82.5	36.173	36.173	42.557	48.089	95.753	87.242	49.366	66.389	85.965	82.986
85.0	15.320	15.320	17.874	20.427	47.238	30.215	20.853	23.832	32.343	31.492
87.5	2.979	2.979	3.405	3.405	8.937	3.830	2.553	3.405	3.830	3.830
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	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154	1780.154
2.5	1826.116	1789.942	1755.046	1675.039	1602.266	1523.962	1485.235	1430.762	1372.885	1371.608
5.0	1870.800	1786.538	1701.424	1520.983	1351.606	1193.720	1083.924	987.320	912.419	888.588
7.5	1919.315	1788.240	1655.463	1372.885	1133.715	924.761	810.283	734.957	691.549	677.080
10.0	1971.660	1796.326	1615.459	1239.256	945.614	760.491	683.889	649.844	631.544	622.607
12.5	2031.240	1810.370	1582.265	1119.671	814.113	679.633	638.353	617.075	603.882	597.499
15.0	2101.884	1837.180	1558.858	1014.130	724.744	641.758	612.819	596.647	586.434	580.901
17.5	2186.147	1873.779	1543.964	929.017	677.080	620.054	595.371	583.880	575.369	568.985
20.0	2287.432	1924.848	1540.133	862.202	653.248	606.010	583.880	575.369	569.411	560.474
22.5	2404.464	1991.662	1544.389	811.134	638.779	594.945	576.220	569.411	566.006	555.793
25.0	2537.667	2065.711	1559.284	771.982	625.586	584.732	568.560	563.879	562.176	544.302

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PHOTOMETRIC FILENAME : VA1-L83-730-T2-F-S-XXX-DIM-UNV\_.IES

## CANDELA TABULATION - (Cont.)

27.5	2675.977	2149.122	1581.414	742.618	611.968	572.816	559.623	557.070	550.260	530.684
30.0	2819.393	2241.045	1609.501	721.339	599.626	560.900	548.133	546.005	536.217	518.343
32.5	2955.150	2328.287	1641.419	706.019	587.710	547.707	534.514	529.833	513.236	471.530
35.0	3067.925	2400.634	1669.506	691.975	575.795	533.238	519.619	499.192	463.870	432.803
37.5	3161.125	2472.129	1698.445	677.931	559.197	518.768	488.127	455.784	426.845	416.206
40.0	3280.284	2563.201	1742.279	667.717	542.175	495.788	449.401	410.674	409.823	400.886
42.5	3386.251	2646.612	1797.603	661.334	524.301	463.019	421.739	387.693	393.651	397.481
45.0	3504.559	2748.749	1866.119	657.504	505.150	434.506	377.905	370.245	382.586	388.970
47.5	3659.466	2888.335	1970.383	662.185	484.723	416.206	362.159	357.052	370.245	379.607
50.0	4099.504	3290.923	2269.984	706.019	468.551	401.737	360.031	345.562	360.882	375.777
52.5	4811.481	3917.786	2803.222	834.115	446.422	364.287	365.138	330.241	357.052	379.182
55.0	5341.314	4401.232	3245.388	891.992	403.865	326.837	321.304	319.602	358.754	385.140
57.5	5228.538	4338.248	3212.619	803.474	359.180	300.452	297.047	313.219	360.457	382.586
60.0	5047.671	4178.660	3047.498	657.929	317.049	277.471	280.024	308.963	352.797	366.415
62.5	4881.700	4015.667	2927.488	548.558	279.599	259.171	265.129	300.026	332.795	341.732
65.0	4799.565	3915.233	2870.036	467.275	245.979	237.893	249.809	283.429	305.558	336.199
67.5	4820.843	3801.180	2785.348	383.863	216.615	214.487	233.212	260.874	283.429	446.847
68.0	4792.330	3740.750	2752.153	363.861	211.508	209.805	229.382	255.767	285.982	474.509
70.0	4283.775	3082.395	2331.691	296.196	191.932	191.932	213.210	234.488	337.476	576.220
72.5	3078.990	1963.149	1494.598	205.550	167.249	172.355	190.655	205.975	447.698	657.078
75.0	995.405	719.211	650.695	144.268	139.587	151.502	167.249	181.292	512.385	600.478
77.5	247.681	190.655	153.205	95.753	107.243	124.266	138.310	161.716	471.530	438.336
80.0	122.989	99.583	82.560	63.835	74.475	93.200	105.115	124.692	313.644	281.301
82.5	68.091	57.026	45.536	37.024	47.238	62.984	68.091	79.156	180.441	167.249
85.0	24.683	22.130	18.299	15.320	22.555	27.236	31.067	34.046	81.709	72.347
87.5	2.128	2.128	1.277	0.851	3.405	5.107	5.532	6.809	18.725	8.937
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

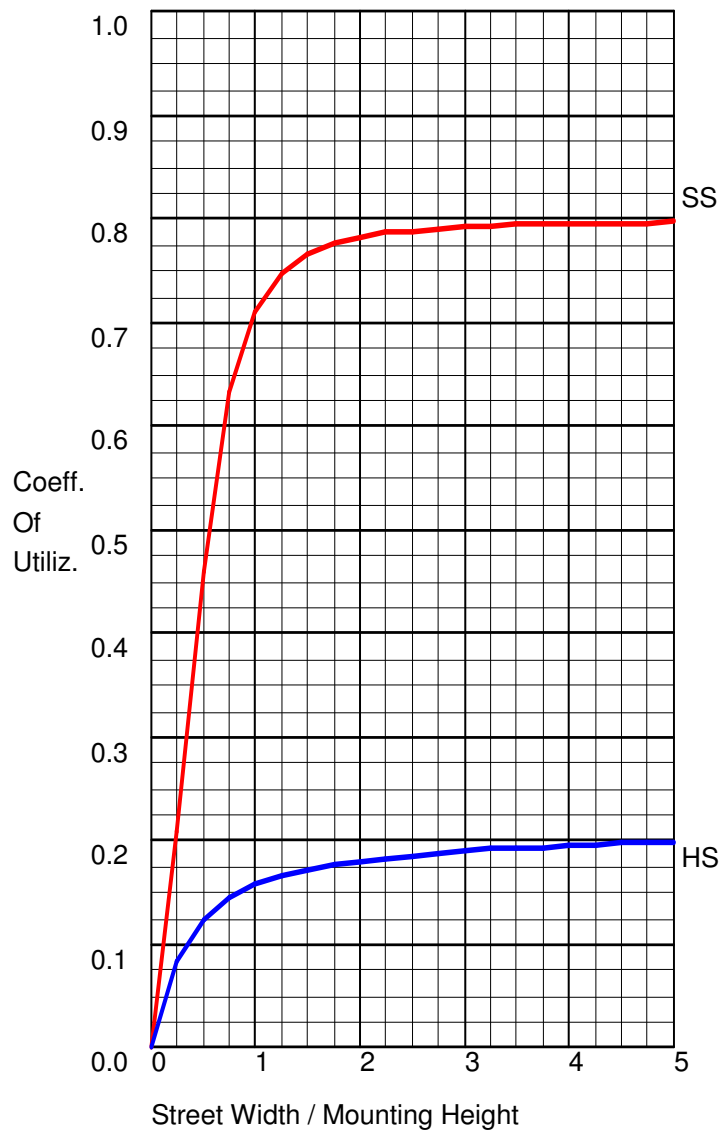
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1780.154	1780.154
2.5	1315.433	1340.542
5.0	843.477	857.096
7.5	662.611	665.164
10.0	615.798	616.224
12.5	592.817	592.817
15.0	577.922	578.348
17.5	566.006	566.432
20.0	555.793	555.793
22.5	548.558	548.558
25.0	532.812	533.238
27.5	520.896	521.322
30.0	495.788	496.213
32.5	451.103	449.826
35.0	423.441	424.292
37.5	410.674	412.802
40.0	394.077	397.481
42.5	383.863	383.437
45.0	380.884	371.096
47.5	368.117	368.117
50.0	367.266	373.224
52.5	377.480	384.289
55.0	388.119	394.077
57.5	386.842	391.949
60.0	372.373	377.905

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L83-730-T2-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	352.371	359.606
<b>65.0</b>	383.863	401.737
<b>67.5</b>	484.297	501.746
<b>68.0</b>	500.894	517.492
<b>70.0</b>	557.070	574.943
<b>72.5</b>	568.560	577.497
<b>75.0</b>	468.977	487.702
<b>77.5</b>	322.156	323.858
<b>80.0</b>	207.252	204.699
<b>82.5</b>	125.117	128.096
<b>85.0</b>	29.364	32.769
<b>87.5</b>	1.702	0.000
<b>90.0</b>	0.000	0.000

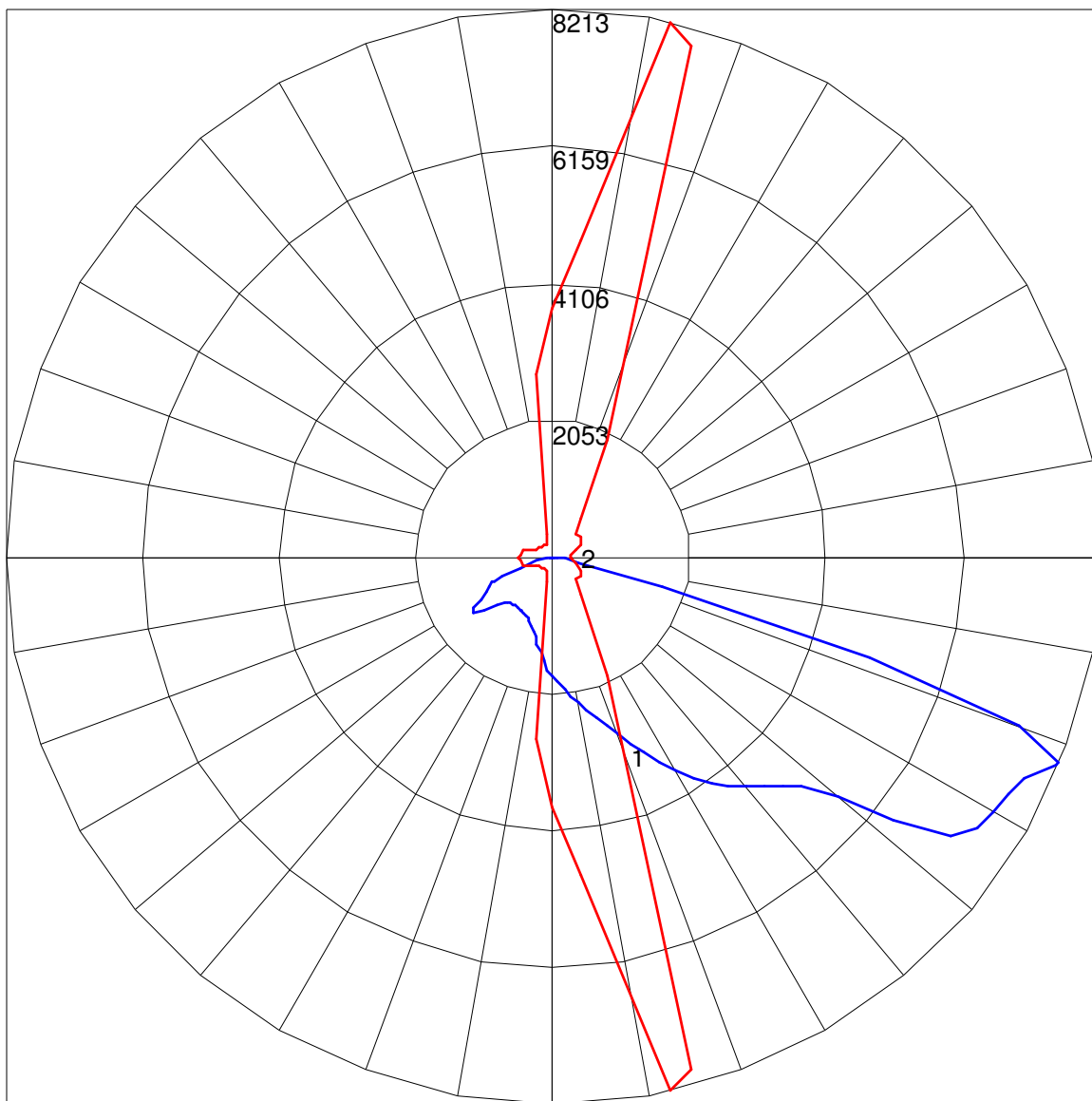
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

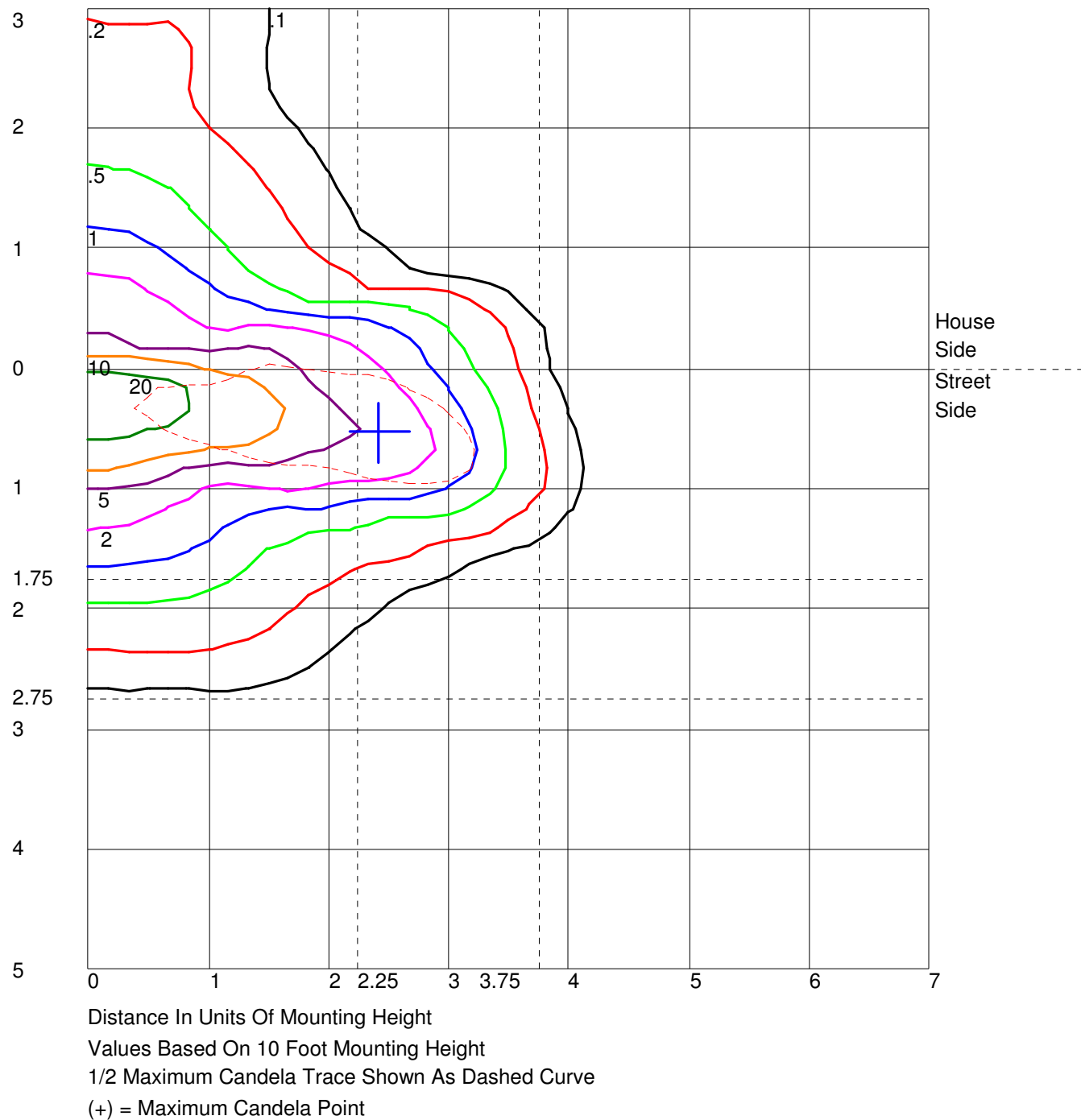
	Lumens	Percent Of Luminaire
Downward Street Side	6465.7	79.8
Downward House Side	1633.2	20.2
Downward Total	8098.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8098.9	100.0

POLAR GRAPH



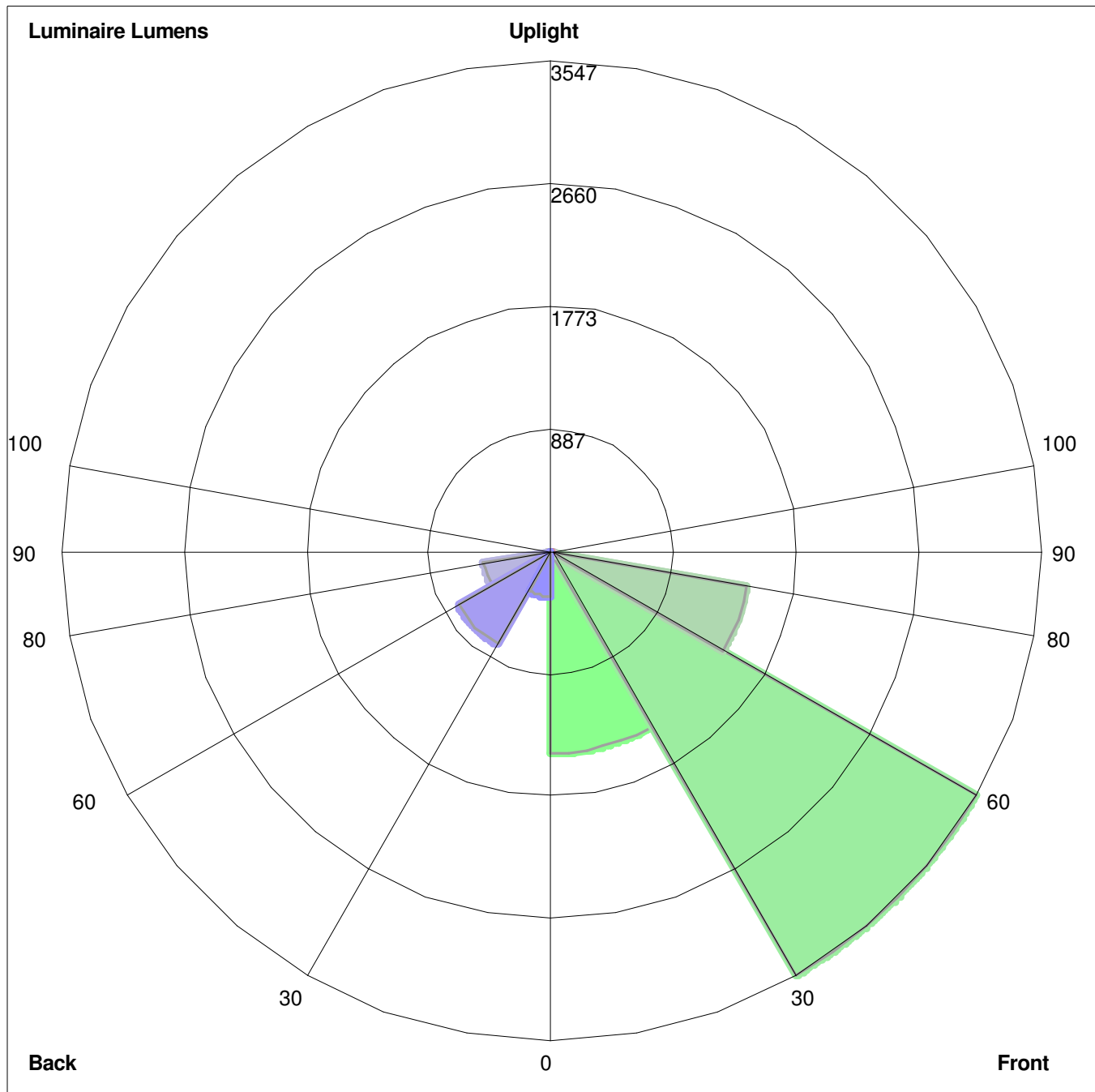
Maximum Candela = 8212.626 Located At Horizontal Angle = 77.5, Vertical Angle = 68  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1463.9, Medium=3546.8, High=1434.1, Very High=20.9  
Back: Low=327.5, Medium=779.9, High=497.4, Very High=28.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1