



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L110-730-TFL-XX-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] ATAL009393-R2  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-11-06  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VG1-L110-730-TFL-xx-xxx-DIM-UNV\_  
[LUMINAIRE] 13.5 x 16 INCH DIE CAST LED LUMINAIRE  
[MORE] WITH TFL FLOOD OPTIC AND CLEAR GLASS LENS.  
[LAMPCAT] X12-LUXEON M LEDS  
[LAMP] (12) LUXEON M LEDS  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor, Architectural, Area, Canopy, Garage, Industrial, Parking, Site, Direct, Wet Location  
[ \_SEARCH\_MOUNTING] Pendant, Surface

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11244
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	104
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4708.143
Maximum Candela Angle	45H 45V
Maximum Candela (<90 Degrees Vertical)	4708.143
Maximum Candela Angle (<90 Degrees Vertical)	45H 45V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	81.232 (0.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L110-730-TFL-XX-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1383.8	N.A.	12.3
FM - Front-Medium (30-60)	3822.8	N.A.	34.0
FH - Front-High (60-80)	404.3	N.A.	3.6
FVH - Front-Very High (80-90)	11.2	N.A.	0.1
BL - Back-Low (0-30)	1383.8	N.A.	12.3
BM - Back-Medium (30-60)	3822.8	N.A.	34.0
BH - Back-High (60-80)	404.3	N.A.	3.6
BVH - Back-Very High (80-90)	11.2	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11244.2	N.A.	100.0
BUG Rating	B3-U0-G1		

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**CANDELA TABULATION**

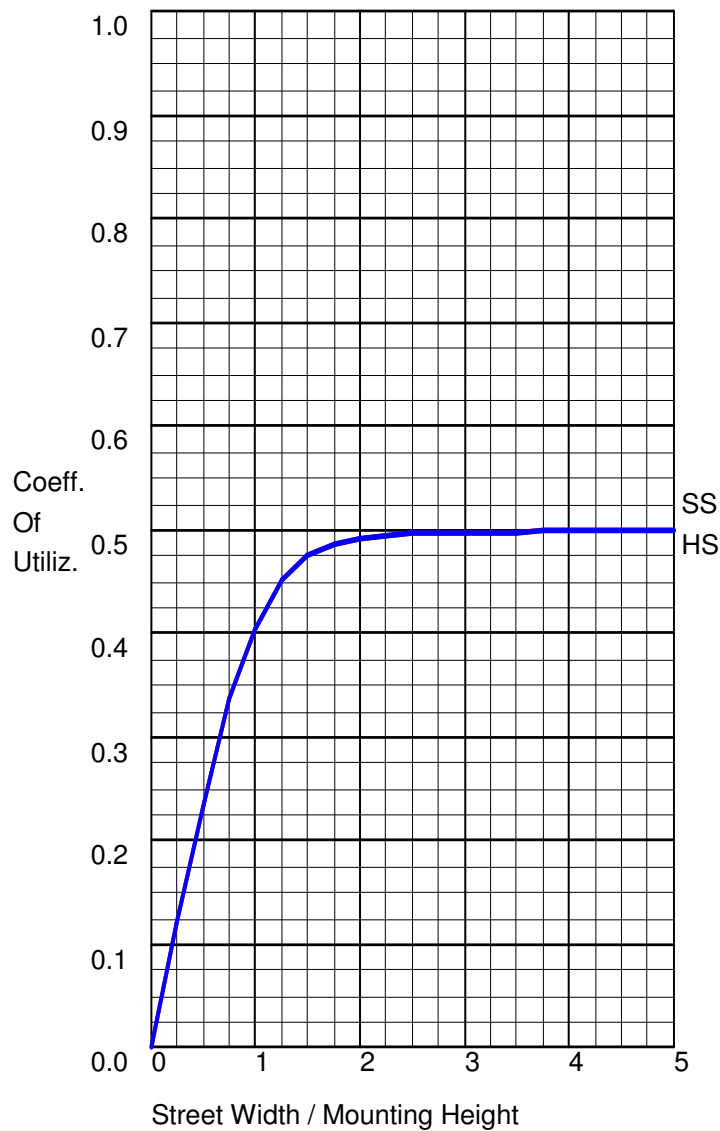
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471
2.5	3146.080	3147.178	3150.471	3150.471	3147.178	3151.569	3151.569	3150.471	3150.471	3149.373
5.0	3144.982	3142.787	3141.689	3142.787	3139.494	3143.884	3147.178	3147.178	3148.275	3144.982
7.5	3141.689	3137.298	3135.103	3135.103	3136.200	3140.591	3147.178	3149.373	3151.569	3147.178
10.0	3141.689	3135.103	3129.614	3134.005	3139.494	3146.080	3155.959	3160.350	3164.741	3160.350
12.5	3147.178	3142.787	3136.200	3142.787	3154.862	3162.546	3174.621	3181.207	3186.696	3184.500
15.0	3171.328	3168.034	3162.546	3171.328	3187.793	3196.575	3208.650	3218.530	3225.116	3222.921
17.5	3199.868	3198.771	3198.771	3210.846	3232.800	3245.973	3256.950	3270.123	3276.709	3276.709
20.0	3221.823	3224.018	3230.605	3249.266	3278.905	3301.957	3317.325	3333.791	3343.670	3344.768
22.5	3222.921	3228.409	3245.973	3277.807	3318.423	3353.550	3379.895	3399.654	3418.316	3420.511
25.0	3200.966	3210.846	3244.875	3296.468	3353.550	3405.143	3447.954	3474.300	3500.645	3503.938
27.5	3168.034	3187.793	3237.191	3308.543	3391.970	3462.225	3524.795	3566.509	3601.636	3607.124
30.0	3154.862	3182.305	3245.973	3332.693	3441.368	3536.870	3619.199	3685.063	3734.461	3746.536
32.5	3174.621	3206.455	3278.905	3377.700	3509.427	3634.568	3743.242	3833.256	3895.826	3916.683
35.0	3208.650	3241.582	3319.521	3435.879	3588.463	3743.242	3879.360	3996.817	4076.951	4104.394
37.5	3237.191	3269.025	3353.550	3490.766	3670.793	3848.624	4007.794	4152.694	4256.978	4291.007
40.0	3247.071	3281.100	3374.407	3531.381	3741.047	3943.028	4120.860	4282.225	4419.441	4479.816
42.5	3269.025	3306.348	3409.534	3578.584	3793.738	3995.719	4181.235	4372.239	4552.266	4633.497
45.0	3307.446	3350.257	3467.713	3636.763	3824.474	3981.449	4132.935	4364.555	4606.054	4708.143
47.5	3303.055	3349.159	3472.104	3626.884	3759.708	3857.406	3981.449	4238.316	4542.386	4690.579
50.0	3103.269	3155.959	3293.175	3436.977	3540.163	3604.929	3739.949	4033.042	4352.480	4508.357
52.5	2666.374	2723.456	2863.965	3033.014	3138.396	3242.680	3426.000	3722.386	3978.156	4072.560
55.0	2086.775	2150.443	2296.441	2476.468	2605.999	2760.778	2964.955	3236.093	3376.602	3394.166
57.5	1492.906	1547.792	1691.594	1896.869	2031.889	2194.352	2397.431	2599.413	2641.126	2643.322
60.0	906.721	944.044	1060.402	1271.166	1427.043	1587.310	1749.774	1884.794	1893.576	1899.064
62.5	503.856	526.908	605.944	724.499	858.421	989.050	1105.409	1184.445	1186.641	1194.325
65.0	327.122	334.806	371.031	429.210	493.976	570.817	628.996	674.003	679.492	702.544
67.5	233.815	239.304	257.965	289.799	323.829	363.347	398.474	424.820	431.406	441.285
70.0	176.734	180.027	192.102	211.861	232.718	254.672	275.529	291.995	297.483	302.972
72.5	136.118	138.313	147.095	160.268	172.343	187.711	199.786	210.763	215.154	219.545
75.0	102.088	105.382	110.870	119.652	127.336	138.313	145.997	153.682	156.975	160.268
77.5	73.548	75.743	80.134	86.720	92.209	99.893	104.284	109.773	113.066	117.457
80.0	46.104	48.300	52.691	57.082	61.473	65.864	68.059	73.548	77.938	81.232
82.5	21.955	24.150	28.541	32.932	36.225	37.323	38.420	40.616	45.007	50.495
85.0	7.684	8.782	10.977	14.270	15.368	15.368	14.270	14.270	16.466	19.759
87.5	2.195	2.195	2.195	2.195	2.195	2.195	2.195	2.195	2.195	3.293
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>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471	3150.471
2.5	3152.666	3158.155	3153.764	3143.884	3139.494	3140.591	3146.080	3147.178	3147.178
5.0	3147.178	3149.373	3144.982	3138.396	3137.298	3137.298	3141.689	3141.689	3141.689
7.5	3148.275	3146.080	3140.591	3137.298	3137.298	3135.103	3137.298	3135.103	3135.103
10.0	3158.155	3150.471	3143.884	3141.689	3141.689	3137.298	3134.005	3129.614	3129.614
12.5	3177.914	3166.937	3159.253	3158.155	3155.959	3149.373	3139.494	3134.005	3131.810
15.0	3211.943	3198.771	3193.282	3191.087	3187.793	3180.109	3163.644	3155.959	3151.569
17.5	3262.439	3245.973	3241.582	3239.387	3233.898	3220.725	3194.380	3183.403	3177.914
20.0	3329.400	3305.250	3297.566	3292.077	3281.100	3258.048	3221.823	3199.868	3193.282
22.5	3398.557	3370.016	3354.648	3342.573	3322.814	3285.491	3236.093	3199.868	3187.793
25.0	3478.691	3445.759	3419.413	3396.361	3360.136	3303.055	3236.093	3182.305	3163.644
27.5	3580.779	3541.261	3500.645	3456.736	3397.459	3317.325	3230.605	3162.546	3135.103

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L110-730-TFL-XX-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>30.0</b>	3717.995	3666.402	3607.124	3536.870	3449.052	3344.768	3243.777	3165.839	3132.907
<b>32.5</b>	3890.338	3824.474	3742.145	3640.056	3519.306	3389.775	3274.514	3191.087	3155.959
<b>35.0</b>	4075.853	3995.719	3884.849	3750.926	3596.147	3440.270	3311.836	3226.214	3191.087
<b>37.5</b>	4253.685	4154.889	4015.478	3855.210	3672.988	3490.766	3345.866	3252.559	3218.530
<b>40.0</b>	4422.734	4291.007	4131.837	3946.321	3736.656	3529.186	3365.625	3265.732	3228.409
<b>42.5</b>	4562.145	4383.216	4190.016	3994.621	3783.858	3566.509	3386.482	3275.612	3232.800
<b>45.0</b>	4613.738	4372.239	4136.228	3963.885	3787.151	3578.584	3384.286	3252.559	3199.868
<b>47.5</b>	4545.679	4243.805	3970.471	3801.422	3676.281	3494.059	3306.348	3155.959	3097.780
<b>50.0</b>	4351.382	4027.553	3704.822	3514.916	3422.707	3265.732	3093.389	2925.437	2861.769
<b>52.5</b>	3985.840	3688.356	3367.820	3136.200	3023.135	2882.626	2733.335	2577.458	2524.768
<b>55.0</b>	3377.700	3199.868	2908.971	2661.983	2539.038	2424.875	2307.418	2175.691	2112.023
<b>57.5</b>	2642.224	2557.699	2341.447	2128.489	2023.107	1936.387	1852.960	1758.556	1719.037
<b>60.0</b>	1902.357	1847.471	1705.865	1541.206	1464.365	1402.893	1350.202	1282.143	1255.797
<b>62.5</b>	1215.182	1178.957	1070.282	962.705	911.112	871.594	845.248	804.632	791.460
<b>65.0</b>	692.664	669.612	613.628	563.133	530.201	496.172	479.706	451.165	446.774
<b>67.5</b>	433.601	418.233	394.083	363.347	339.197	317.243	294.190	276.627	274.431
<b>70.0</b>	297.483	287.604	273.334	253.574	237.109	216.252	196.493	183.320	182.222
<b>72.5</b>	215.154	208.568	198.688	184.418	170.147	152.584	137.216	127.336	126.238
<b>75.0</b>	158.072	153.682	147.095	133.922	121.847	107.577	95.502	87.818	86.720
<b>77.5</b>	115.261	111.968	107.577	96.600	85.623	74.645	63.668	58.179	58.179
<b>80.0</b>	80.134	77.938	74.645	66.961	57.082	47.202	38.420	35.127	34.029
<b>82.5</b>	50.495	48.300	47.202	39.518	32.932	25.248	19.759	16.466	16.466
<b>85.0</b>	19.759	18.661	19.759	17.564	14.270	9.880	8.782	6.586	6.586
<b>87.5</b>	3.293	2.195	2.195	2.195	2.195	2.195	2.195	2.195	2.195
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

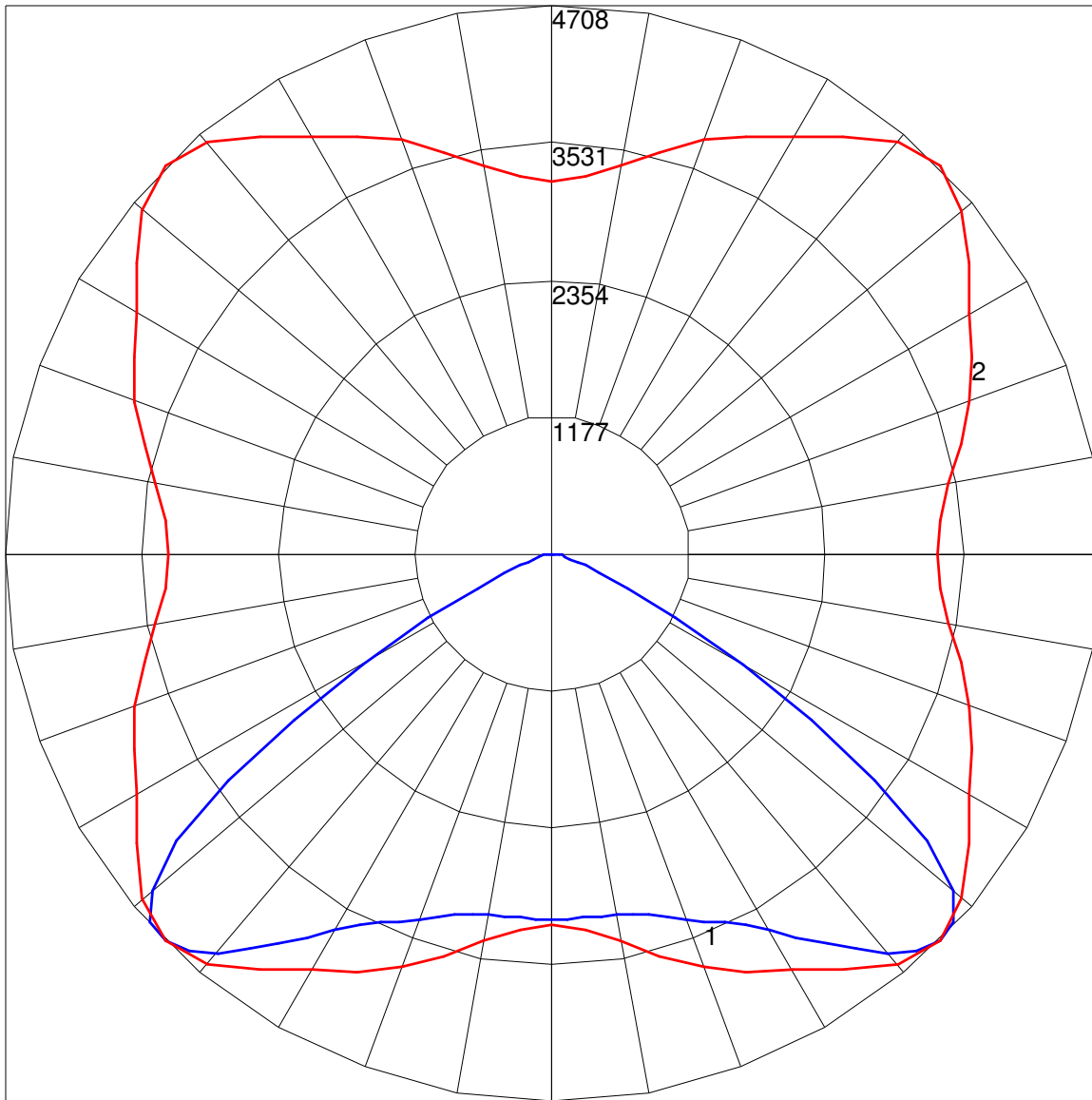
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

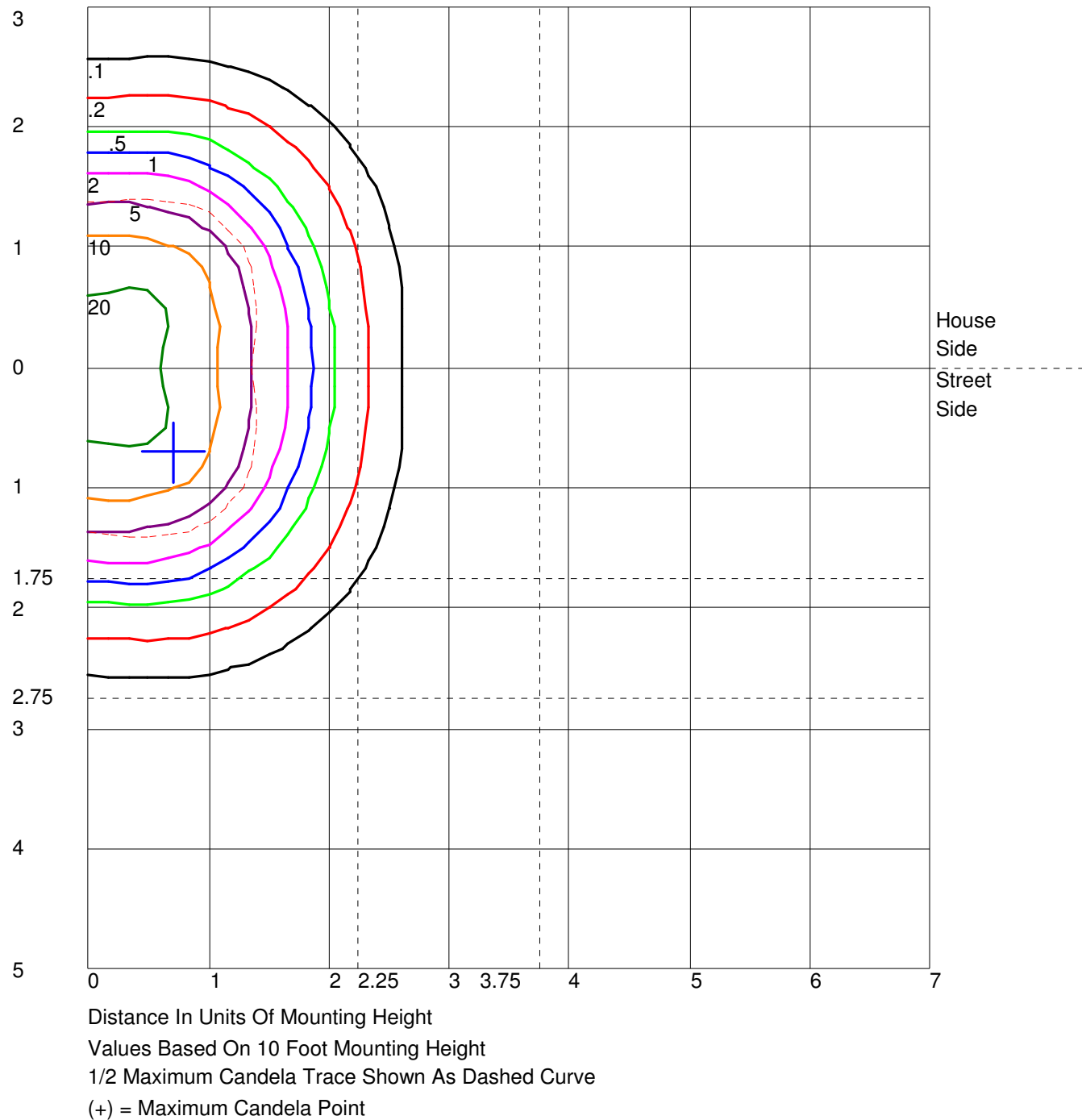
	Lumens	Percent Of Luminaire
Downward Street Side	5622.1	50.0
Downward House Side	5622.1	50.0
Downward Total	11244.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11244.2	100.0

POLAR GRAPH

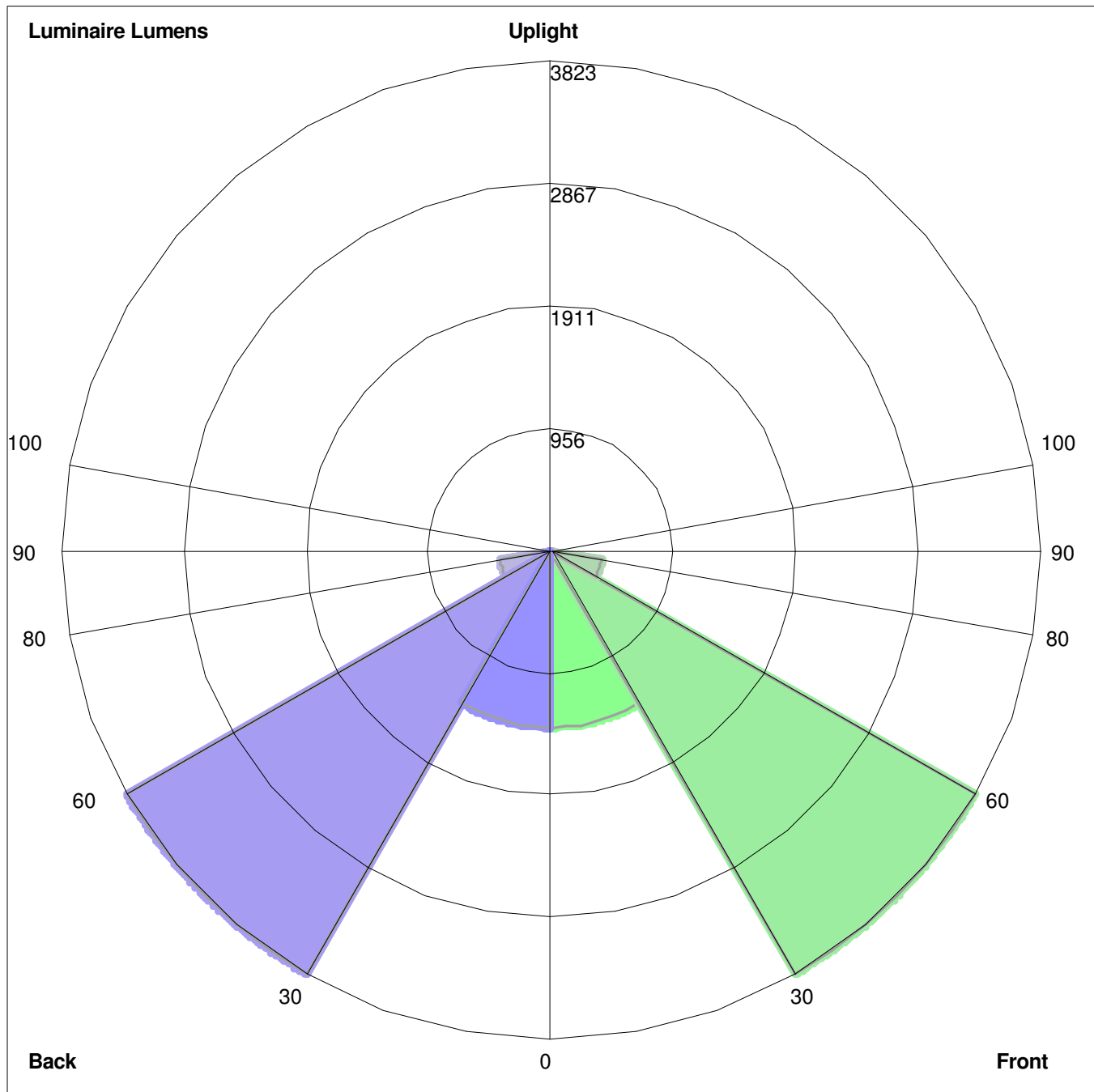


Maximum Candela = 4708.143 Located At Horizontal Angle = 45, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
 Front: Low=1383.8, Medium=3822.8, High=404.3, Very High=11.2  
 Back: Low=1383.8, Medium=3822.8, High=404.3, Very High=11.2  
 Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1