



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L110-750-T3-XX-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] ATAL009382-R2  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-11-06  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMCAT] VG1-L110-750-T3-xx-xxx-DIM-UNV\_  
[LUMINAIRE] 13.5 x 16 INCH LED GARAGE LUMINAIRE  
[MORE] WITH TYPE III 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  
[MANUFAC] WILLIAMS OUTDOOR

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11386
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	104
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4738.956
Maximum Candela Angle	82.5H 70V
Maximum Candela (<90 Degrees Vertical)	4738.956
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1410.123 (12.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L110-750-T3-XX-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1425.9	N.A.	12.5
FM - Front-Medium (30-60)	4066.2	N.A.	35.7
FH - Front-High (60-80)	2182.0	N.A.	19.2
FVH - Front-Very High (80-90)	71.7	N.A.	0.6
BL - Back-Low (0-30)	943.6	N.A.	8.3
BM - Back-Medium (30-60)	1763.4	N.A.	15.5
BH - Back-High (60-80)	890.6	N.A.	7.8
BVH - Back-Very High (80-90)	43.0	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11386.4	N.A.	100.0
BUG Rating	B2-U0-G2		

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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>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326
2.5	2917.007	2909.927	2899.307	2901.667	2900.487	2899.307	2883.966	2867.446	2856.826	2848.566
5.0	2954.768	2948.868	2939.427	2950.048	2959.488	2964.208	2958.308	2945.327	2932.347	2911.107
7.5	3020.849	3011.409	2996.068	3004.328	3017.309	3018.489	3019.669	3024.389	3018.489	2992.528
10.0	3155.371	3144.751	3128.230	3137.671	3136.491	3112.890	3097.550	3101.090	3098.730	3069.229
12.5	3212.012	3207.292	3213.192	3243.872	3269.833	3245.052	3197.852	3182.511	3168.351	3130.590
15.0	3186.051	3183.691	3196.672	3249.772	3322.934	3359.514	3311.133	3269.833	3230.892	3177.791
17.5	3267.473	3260.393	3245.052	3261.573	3312.313	3397.275	3401.995	3354.794	3287.533	3214.372
20.0	3484.596	3465.716	3427.955	3386.655	3347.714	3383.115	3439.755	3438.575	3341.814	3246.232
22.5	3741.840	3711.160	3614.398	3535.337	3439.755	3380.754	3423.235	3485.776	3390.195	3276.913
25.0	3942.444	3928.283	3781.961	3655.699	3529.437	3419.695	3397.275	3510.557	3424.415	3301.693
27.5	4122.986	4101.746	3931.823	3747.740	3600.238	3483.416	3404.355	3519.997	3453.916	3325.294
30.0	4217.388	4192.608	4020.325	3844.502	3673.399	3553.037	3446.836	3525.897	3482.236	3345.354
32.5	4265.769	4236.268	4076.966	3916.483	3767.801	3621.478	3499.936	3543.597	3518.817	3361.874
35.0	4294.089	4265.769	4141.867	4009.705	3864.562	3699.360	3544.777	3570.738	3569.558	3385.475
37.5	4270.489	4244.528	4159.567	4094.666	3981.384	3783.141	3580.178	3590.798	3627.378	3414.975
40.0	3975.484	3948.344	4054.545	4126.527	4127.707	3883.443	3612.038	3606.138	3691.099	3457.456
42.5	3324.114	3302.873	3548.317	4046.285	4240.988	3999.084	3647.439	3619.118	3763.081	3529.437
45.0	2724.664	2735.284	2964.208	3587.258	4302.349	4106.466	3695.820	3633.279	3829.162	3615.578
47.5	2411.959	2409.599	2583.062	2981.908	4232.728	4216.208	3752.460	3652.159	3878.723	3707.620
50.0	2197.195	2200.735	2352.958	2761.245	3891.703	4322.410	3819.722	3698.180	3925.923	3800.841
52.5	1995.412	2003.672	2159.435	2681.003	3475.156	4337.750	3961.324	3849.222	4055.725	3911.763
55.0	1840.830	1851.450	2000.132	2613.742	3345.354	4067.526	4154.847	4003.805	4202.048	4120.626
57.5	1676.807	1695.687	1856.170	2532.321	3196.672	3535.337	4296.449	4170.187	4291.729	4353.090
60.0	1450.243	1464.404	1659.107	2370.658	2983.088	3220.272	4298.809	4185.527	4297.629	4373.150
62.5	1181.199	1180.019	1351.122	2065.033	2684.543	2852.106	4169.007	4095.846	4282.289	4481.712
65.0	824.833	822.473	994.756	1672.087	2298.677	2422.579	3845.682	4075.786	4361.350	4559.593
67.5	492.068	506.228	614.790	1231.940	1890.390	2030.813	3309.953	4113.546	4354.270	4671.695
70.0	363.446	374.066	466.108	921.595	1470.304	1662.647	2809.625	4189.068	4392.031	4738.956
72.5	272.584	273.764	357.546	718.632	1078.537	1287.401	2304.577	4027.405	4131.247	4363.710
75.0	193.523	193.523	261.964	535.729	746.952	920.415	1663.827	3483.416	3596.698	3489.316
77.5	125.082	127.442	168.743	368.166	497.968	593.550	1043.137	2748.264	2607.842	2102.794
80.0	70.801	70.801	95.582	225.384	303.265	316.245	708.011	1410.123	1013.636	676.151
82.5	33.041	34.221	43.661	116.822	158.123	141.602	444.867	398.846	313.885	205.323
85.0	8.260	9.440	12.980	35.401	64.901	51.921	149.862	95.582	84.961	49.561
87.5	0.000	0.000	0.000	1.180	3.540	3.540	5.900	4.720	2.360	2.360
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	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326	2827.326
2.5	2849.746	2841.486	2830.866	2808.445	2796.645	2793.105	2761.245	2745.904	2732.924	2734.104
5.0	2912.287	2892.227	2873.346	2823.786	2781.305	2743.544	2684.543	2645.603	2607.842	2592.502
7.5	2988.988	2961.848	2931.167	2856.826	2782.485	2714.044	2630.262	2564.181	2505.180	2469.780
10.0	3058.609	3024.389	2984.268	2888.687	2787.205	2693.983	2591.322	2507.540	2433.199	2383.638
12.5	3114.070	3072.770	3022.029	2905.207	2781.305	2668.023	2564.181	2470.960	2380.098	2308.117
15.0	3155.371	3108.170	3044.449	2907.567	2762.425	2639.703	2542.941	2429.659	2295.137	2186.575
17.5	3188.411	3130.590	3055.069	2899.307	2727.024	2611.382	2501.640	2343.518	2151.175	1983.612
20.0	3217.912	3147.111	3059.789	2882.786	2693.983	2578.342	2422.579	2192.475	1890.390	1583.586
22.5	3242.692	3163.631	3058.609	2863.906	2663.303	2518.161	2297.497	1931.691	1444.343	1144.618
25.0	3260.393	3175.431	3056.249	2842.666	2642.063	2434.379	2116.954	1532.845	1091.518	980.596
27.5	3279.273	3183.691	3053.889	2824.966	2619.642	2324.637	1845.550	1172.939	1015.996	1005.376

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## CANDELA TABULATION - (Cont.)

30.0	3295.793	3182.511	3047.989	2807.265	2579.522	2184.215	1511.604	1066.737	1063.197	1112.758
32.5	3305.233	3176.611	3035.009	2786.025	2526.421	2010.752	1230.760	1078.537	1152.879	1211.880
35.0	3324.114	3180.151	3020.849	2769.505	2456.800	1812.509	1168.219	1135.178	1202.439	1227.220
37.5	3352.434	3188.411	3007.868	2747.084	2370.658	1575.325	1143.438	1156.419	1168.219	1187.099
40.0	3384.295	3196.672	2994.888	2705.784	2265.637	1318.081	1115.118	1115.118	1115.118	1192.999
42.5	3439.755	3217.912	2985.448	2642.063	2124.034	1110.398	1025.437	1053.757	1208.339	1480.924
45.0	3508.197	3249.772	2987.808	2585.422	1942.311	961.716	900.355	1028.977	1423.103	1584.766
47.5	3584.898	3299.333	3011.409	2546.481	1744.068	798.873	784.713	1227.220	1454.963	1616.626
50.0	3662.779	3352.434	3044.449	2531.141	1595.386	667.891	720.992	1282.681	1412.483	1436.083
52.5	3753.641	3406.715	3092.830	2552.381	1539.925	575.849	765.832	1087.978	894.454	815.393
55.0	3956.604	3561.297	3212.012	2623.182	1524.585	513.308	640.750	605.350	541.629	540.449
57.5	4194.968	3753.641	3314.673	2634.982	1445.523	464.927	429.527	441.327	436.607	417.727
60.0	4232.728	3846.862	3424.415	2612.562	1338.142	423.627	371.706	371.706	383.506	371.706
62.5	4328.310	3858.662	3392.555	2481.580	1228.400	382.326	349.286	325.685	352.826	354.006
65.0	4399.111	3866.922	3334.734	2358.858	1119.838	343.386	317.425	293.825	326.865	370.526
67.5	4535.993	3966.044	3414.975	2414.319	1004.196	309.165	266.684	265.504	304.445	413.007
70.0	4631.575	4020.325	3445.656	2494.560	920.415	282.025	230.104	232.464	305.625	444.867
72.5	4292.909	3758.361	3219.092	2374.198	823.653	244.264	195.883	202.963	316.245	433.067
75.0	3432.675	3052.709	2603.122	2002.492	591.190	204.143	165.203	180.543	315.065	422.447
77.5	1913.991	1754.688	1535.205	1451.423	322.145	166.383	135.702	162.843	287.925	404.747
80.0	577.029	494.428	411.827	520.388	181.723	116.822	103.842	138.062	244.264	331.585
82.5	206.503	161.663	135.702	125.082	97.942	69.621	66.081	94.402	171.103	204.143
85.0	49.561	38.941	34.221	30.680	30.680	28.320	25.960	50.741	80.241	87.321
87.5	2.360	2.360	1.180	2.360	2.360	1.180	1.180	8.260	8.260	9.440
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

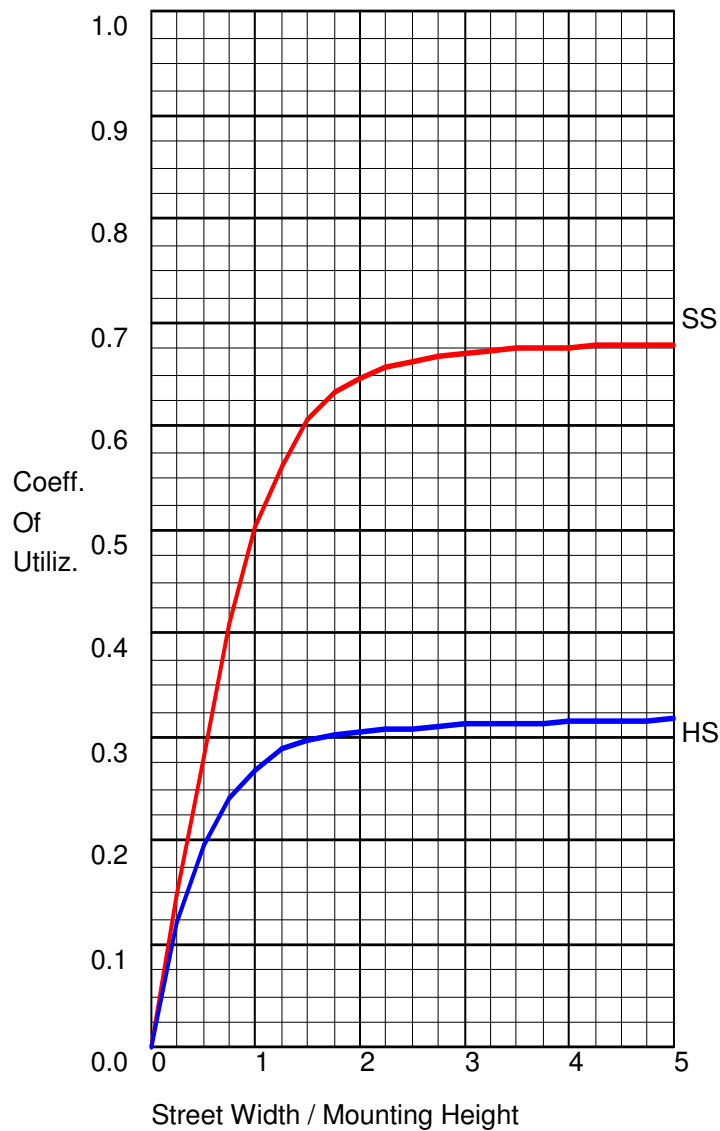
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	2827.326	2827.326
2.5	2712.864	2702.244
5.0	2564.181	2554.741
7.5	2437.919	2429.659
10.0	2345.878	2338.798
12.5	2256.196	2245.576
15.0	2109.874	2095.714
17.5	1857.350	1864.430
20.0	1405.403	1412.483
22.5	1020.716	1019.536
25.0	949.915	946.375
27.5	1024.257	1021.896
30.0	1136.358	1138.718
32.5	1233.120	1229.580
35.0	1230.760	1228.400
37.5	1200.079	1198.899
40.0	1372.362	1395.963
42.5	1602.466	1627.246
45.0	1662.647	1679.167
47.5	1696.867	1709.848
50.0	1424.283	1378.262
52.5	841.354	824.833
55.0	565.229	554.609
57.5	422.447	417.727
60.0	375.246	372.886
62.5	374.066	381.146
65.0	425.987	437.787

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L110-750-T3-XX-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	475.548	487.348
<b>70.0</b>	495.608	503.868
<b>72.5</b>	486.168	501.508
<b>75.0</b>	493.248	505.048
<b>77.5</b>	463.747	472.008
<b>80.0</b>	341.025	338.665
<b>82.5</b>	197.063	181.723
<b>85.0</b>	77.881	57.821
<b>87.5</b>	5.900	4.720
<b>90.0</b>	0.000	0.000

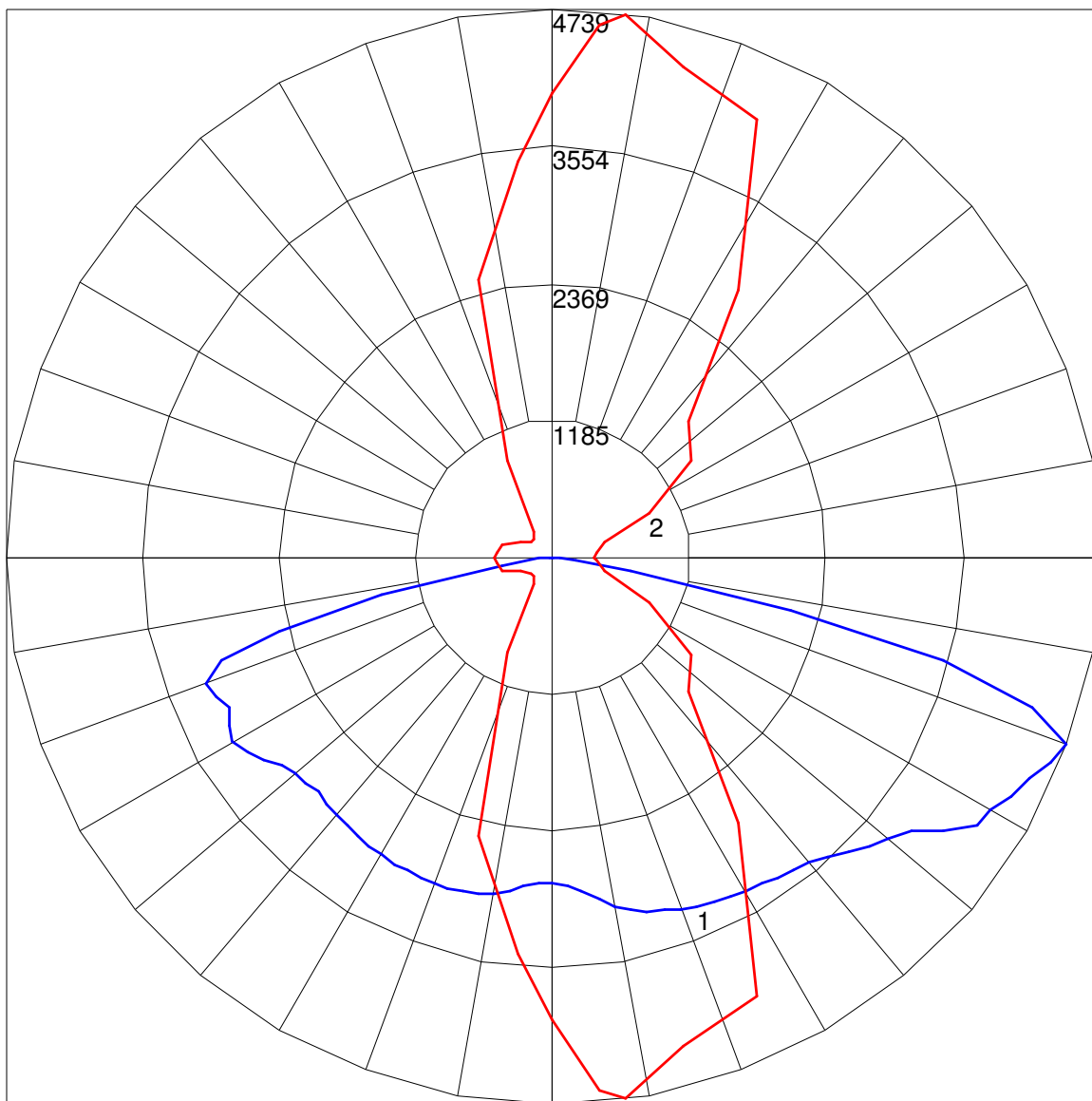
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

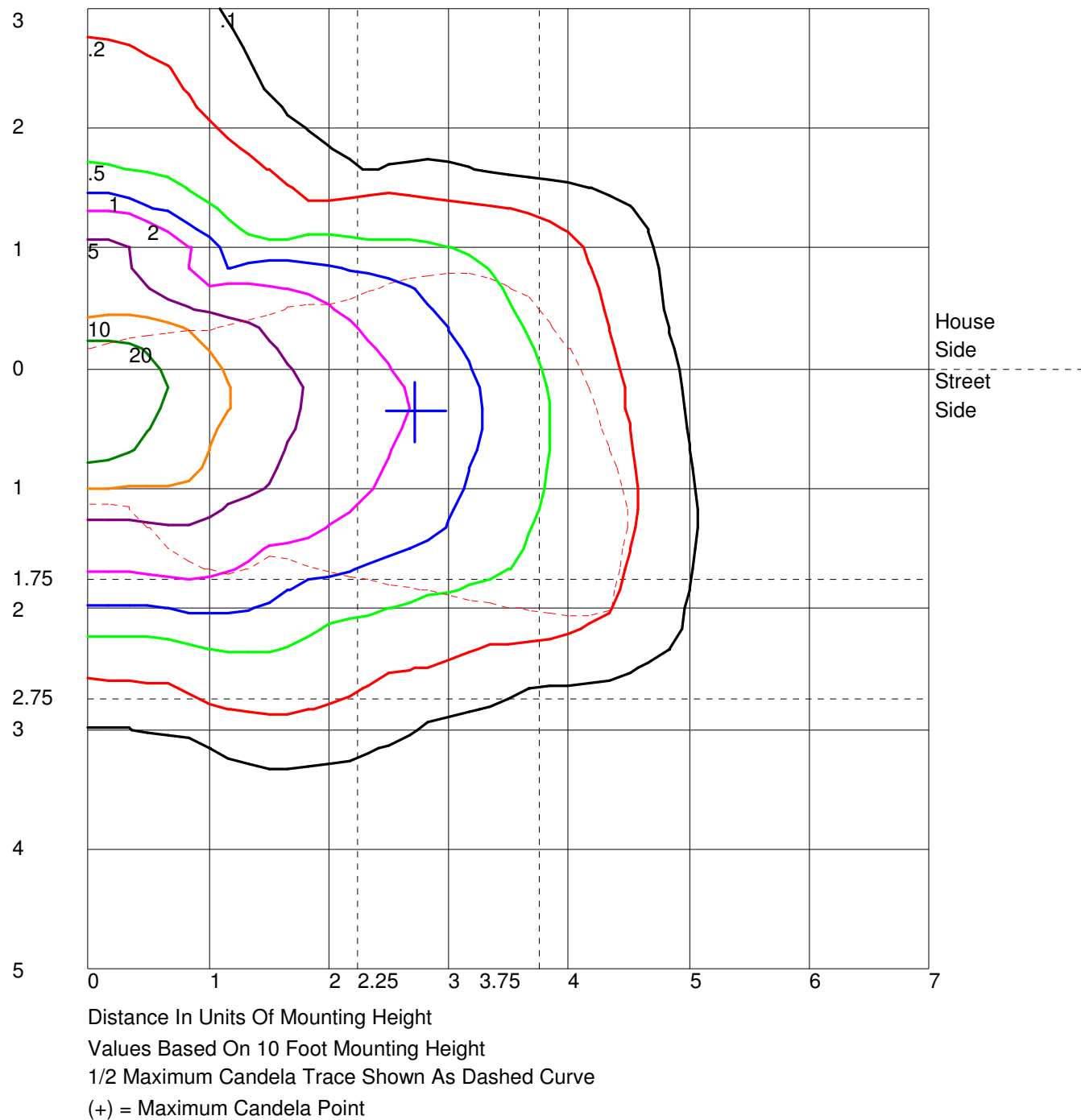
	Lumens	Percent Of Luminaire
Downward Street Side	7745.8	68.0
Downward House Side	3640.6	32.0
Downward Total	11386.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11386.4	100.0

POLAR GRAPH



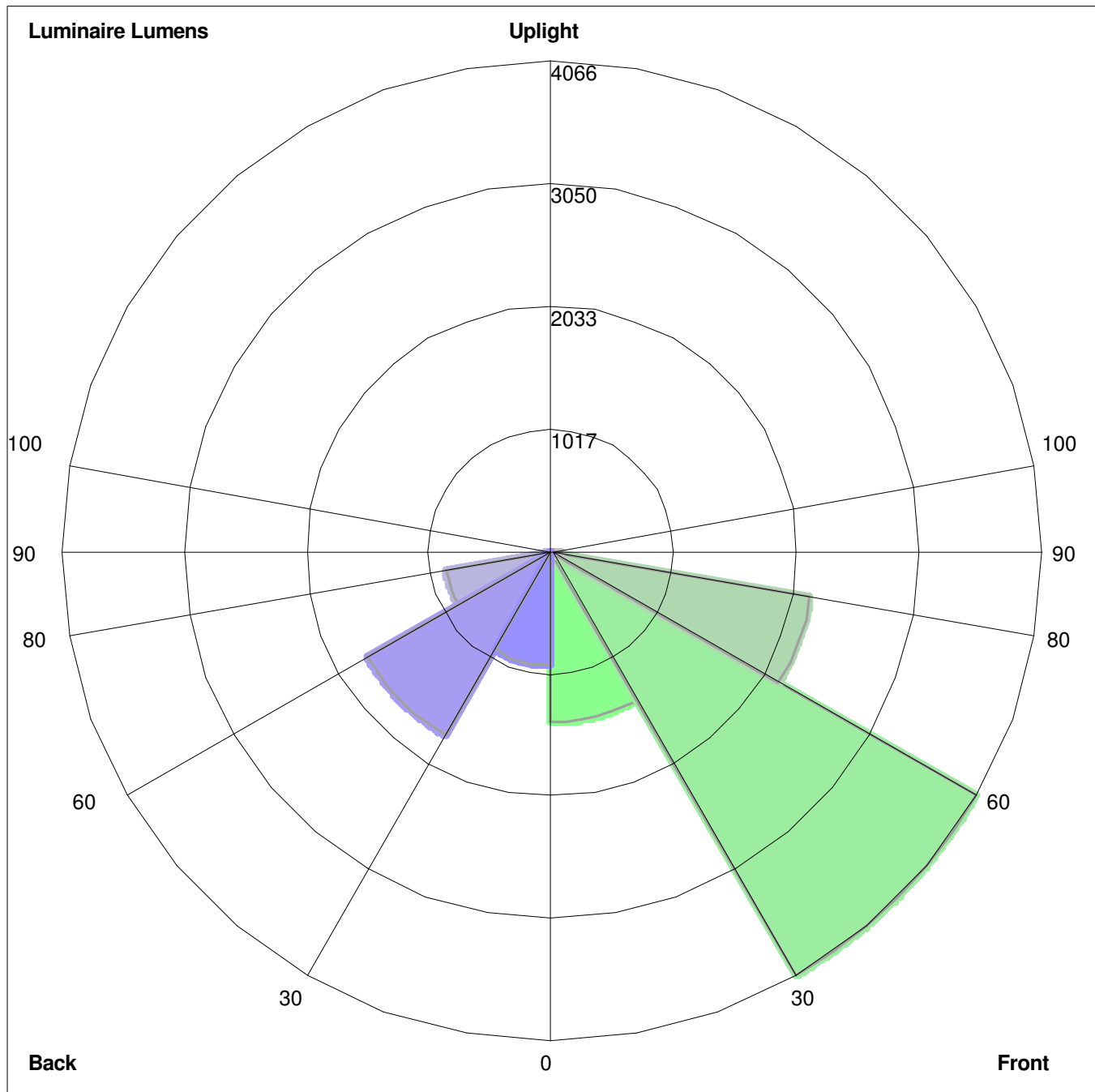
Maximum Candela = 4738.956 Located At Horizontal Angle = 82.5, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1425.9, Medium=4066.2, High= 2182.0, Very High=71.7  
Back: Low=943.6, Medium=1763.4, High=890.6, Very High=43.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2