



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L110-730-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-L110-730-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	10438
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	104
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4344.388
Maximum Candela Angle	82.5H 70V
Maximum Candela (<90 Degrees Vertical)	4344.388
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	1292.715 (12.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L110-730-T3-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1307.2	N.A.	12.5
FM - Front-Medium (30-60)	3727.6	N.A.	35.7
FH - Front-High (60-80)	2000.4	N.A.	19.2
FVH - Front-Very High (80-90)	65.7	N.A.	0.6
BL - Back-Low (0-30)	865.0	N.A.	8.3
BM - Back-Medium (30-60)	1616.5	N.A.	15.5
BH - Back-High (60-80)	816.5	N.A.	7.8
BVH - Back-Very High (80-90)	39.4	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	10438.3	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	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921
2.5	2674.135	2667.645	2657.909	2660.072	2658.991	2657.909	2643.846	2628.701	2618.965	2611.393
5.0	2708.752	2703.343	2694.689	2704.425	2713.079	2717.406	2711.997	2700.098	2688.198	2668.726
7.5	2769.331	2760.677	2746.614	2754.186	2766.086	2767.168	2768.249	2772.576	2767.168	2743.369
10.0	2892.653	2882.917	2867.772	2876.426	2875.345	2853.709	2839.646	2842.891	2840.728	2813.684
12.5	2944.578	2940.251	2945.660	2973.786	2997.585	2974.867	2931.597	2917.534	2904.552	2869.936
15.0	2920.779	2918.615	2930.515	2979.194	3046.264	3079.799	3035.446	2997.585	2961.886	2913.206
17.5	2995.421	2988.930	2974.867	2990.012	3036.528	3114.416	3118.743	3075.472	3013.811	2946.741
20.0	3194.467	3177.158	3142.542	3104.680	3068.981	3101.434	3153.359	3152.278	3063.572	2975.949
22.5	3430.292	3402.166	3313.461	3240.983	3153.359	3099.271	3138.215	3195.548	3107.925	3004.075
25.0	3614.193	3601.212	3467.073	3351.323	3235.574	3134.969	3114.416	3218.266	3139.296	3026.792
27.5	3779.704	3760.232	3604.457	3435.701	3300.480	3193.385	3120.906	3226.920	3166.341	3048.428
30.0	3866.246	3843.529	3685.590	3524.406	3367.550	3257.209	3159.850	3232.329	3192.303	3066.818
32.5	3910.598	3883.554	3737.515	3590.394	3454.091	3319.952	3208.530	3248.555	3225.838	3081.963
35.0	3936.561	3910.598	3797.013	3675.854	3542.797	3391.349	3249.637	3273.436	3272.354	3103.598
37.5	3914.925	3891.126	3813.239	3753.742	3649.892	3468.154	3282.090	3291.826	3325.361	3130.642
40.0	3644.483	3619.602	3716.962	3782.949	3784.031	3560.105	3311.298	3305.889	3383.776	3169.586
42.5	3047.346	3027.874	3252.882	3709.389	3887.881	3666.118	3343.751	3317.788	3449.764	3235.574
45.0	2497.807	2507.543	2717.406	3288.581	3944.133	3764.559	3388.103	3330.770	3510.343	3314.543
47.5	2211.138	2208.974	2367.994	2733.633	3880.309	3865.164	3440.028	3348.078	3555.778	3398.921
50.0	2014.256	2017.501	2157.049	2531.342	3567.677	3962.523	3501.689	3390.267	3599.049	3484.381
52.5	1829.273	1836.845	1979.639	2457.781	3185.812	3976.586	3631.502	3528.734	3718.043	3586.067
55.0	1687.561	1697.297	1833.600	2396.120	3066.818	3728.861	3808.912	3670.445	3852.183	3777.541
57.5	1537.195	1554.503	1701.624	2321.478	2930.515	3240.983	3938.724	3822.975	3934.397	3990.649
60.0	1329.495	1342.476	1520.969	2173.276	2734.714	2952.150	3940.888	3837.038	3939.806	4009.039
62.5	1082.852	1081.770	1238.627	1893.097	2461.027	2614.638	3821.893	3754.823	3925.743	4108.562
65.0	756.157	753.994	911.932	1532.868	2107.288	2220.874	3525.488	3736.433	3998.222	4179.959
67.5	451.098	464.079	563.602	1129.368	1732.995	1861.726	3034.365	3771.050	3991.731	4282.727
70.0	333.185	342.921	427.299	844.862	1347.885	1524.214	2575.694	3840.283	4026.348	4344.388
72.5	249.889	250.971	327.776	658.798	988.738	1180.211	2112.697	3692.081	3787.277	4000.385
75.0	177.410	177.410	240.153	491.124	684.760	843.781	1525.296	3193.385	3297.235	3198.794
77.5	114.668	116.831	154.693	337.512	456.507	544.130	956.285	2519.442	2390.712	1927.714
80.0	64.906	64.906	87.623	206.618	278.015	289.914	649.062	1292.715	929.240	619.854
82.5	30.290	31.371	40.025	107.095	144.957	129.812	407.827	365.638	287.751	188.228
85.0	7.572	8.654	11.899	32.453	59.497	47.598	137.385	87.623	77.887	45.434
87.5	0.000	0.000	0.000	1.082	3.245	3.245	5.409	4.327	2.164	2.164
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	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921	2591.921
2.5	2612.474	2604.902	2595.166	2574.612	2563.795	2560.549	2531.342	2517.279	2505.379	2506.461
5.0	2669.808	2651.418	2634.110	2588.675	2549.732	2515.115	2461.027	2425.328	2390.712	2376.649
7.5	2740.123	2715.243	2687.117	2618.965	2550.814	2488.071	2411.265	2350.686	2296.598	2264.144
10.0	2803.948	2772.576	2735.796	2648.173	2555.141	2469.681	2375.567	2298.761	2230.610	2185.175
12.5	2854.791	2816.929	2770.413	2663.318	2549.732	2445.882	2350.686	2265.226	2181.930	2115.942
15.0	2892.653	2849.382	2790.966	2665.481	2532.423	2419.919	2331.214	2227.364	2104.043	2004.520
17.5	2922.942	2869.936	2800.702	2657.909	2499.970	2393.957	2293.352	2148.395	1972.067	1818.455
20.0	2949.987	2885.080	2805.029	2642.764	2469.681	2363.667	2220.874	2009.929	1732.995	1451.735
22.5	2972.704	2900.225	2803.948	2625.456	2441.555	2308.497	2106.206	1770.857	1324.086	1049.317
25.0	2988.930	2911.043	2801.784	2605.984	2422.083	2231.691	1940.695	1405.219	1000.637	898.951
27.5	3006.239	2918.615	2799.621	2589.757	2401.529	2131.087	1691.888	1075.279	931.404	921.668

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CANDELA TABULATION - (Cont.)

30.0	3021.383	2917.534	2794.212	2573.531	2364.749	2002.356	1385.747	977.920	974.675	1020.109
32.5	3030.038	2912.125	2782.312	2554.059	2316.069	1843.336	1128.286	988.738	1056.889	1110.978
35.0	3047.346	2915.370	2769.331	2538.914	2252.245	1661.599	1070.952	1040.663	1102.324	1125.041
37.5	3073.308	2922.942	2757.432	2518.360	2173.276	1444.163	1048.235	1060.135	1070.952	1088.261
40.0	3102.516	2930.515	2745.532	2480.498	2076.998	1208.337	1022.273	1022.273	1022.273	1093.669
42.5	3153.359	2949.987	2736.878	2422.083	1947.186	1017.946	940.058	966.021	1107.732	1357.621
45.0	3216.102	2979.194	2739.041	2370.158	1780.593	881.643	825.390	943.303	1304.615	1452.817
47.5	3286.417	3024.629	2760.677	2334.460	1598.856	732.358	719.377	1125.041	1333.822	1482.025
50.0	3357.814	3073.308	2790.966	2320.397	1462.553	612.282	660.961	1175.884	1294.879	1316.514
52.5	3441.110	3123.070	2835.319	2339.868	1411.710	527.904	702.069	997.392	819.982	747.503
55.0	3627.175	3264.782	2944.578	2404.775	1397.647	470.570	587.401	554.948	496.532	495.451
57.5	3845.692	3441.110	3038.692	2415.592	1325.168	426.217	393.764	404.582	400.255	382.947
60.0	3880.309	3526.570	3139.296	2395.039	1226.727	388.355	340.758	340.758	351.575	340.758
62.5	3967.932	3537.388	3110.089	2274.962	1126.123	350.493	320.204	298.569	323.449	324.531
65.0	4032.838	3544.960	3057.082	2162.458	1026.600	314.795	290.996	269.361	299.650	339.676
67.5	4158.324	3635.829	3130.642	2213.301	920.586	283.424	244.480	243.398	279.097	378.619
70.0	4245.947	3685.590	3158.768	2286.862	843.781	258.543	210.945	213.109	280.178	407.827
72.5	3935.479	3445.437	2951.068	2176.521	755.075	223.926	179.574	186.064	289.914	397.010
75.0	3146.869	2798.539	2386.384	1835.764	541.967	187.146	151.448	165.511	288.833	387.274
77.5	1754.631	1608.592	1407.383	1330.577	295.323	152.530	124.404	149.284	263.952	371.047
80.0	528.986	453.262	377.538	477.061	166.593	107.095	95.196	126.567	223.926	303.977
82.5	189.310	148.202	124.404	114.668	89.787	63.824	60.579	86.542	156.857	187.146
85.0	45.434	35.698	31.371	28.126	28.126	25.962	23.799	46.516	73.560	80.051
87.5	2.164	2.164	1.082	2.164	2.164	1.082	1.082	7.572	7.572	8.654
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

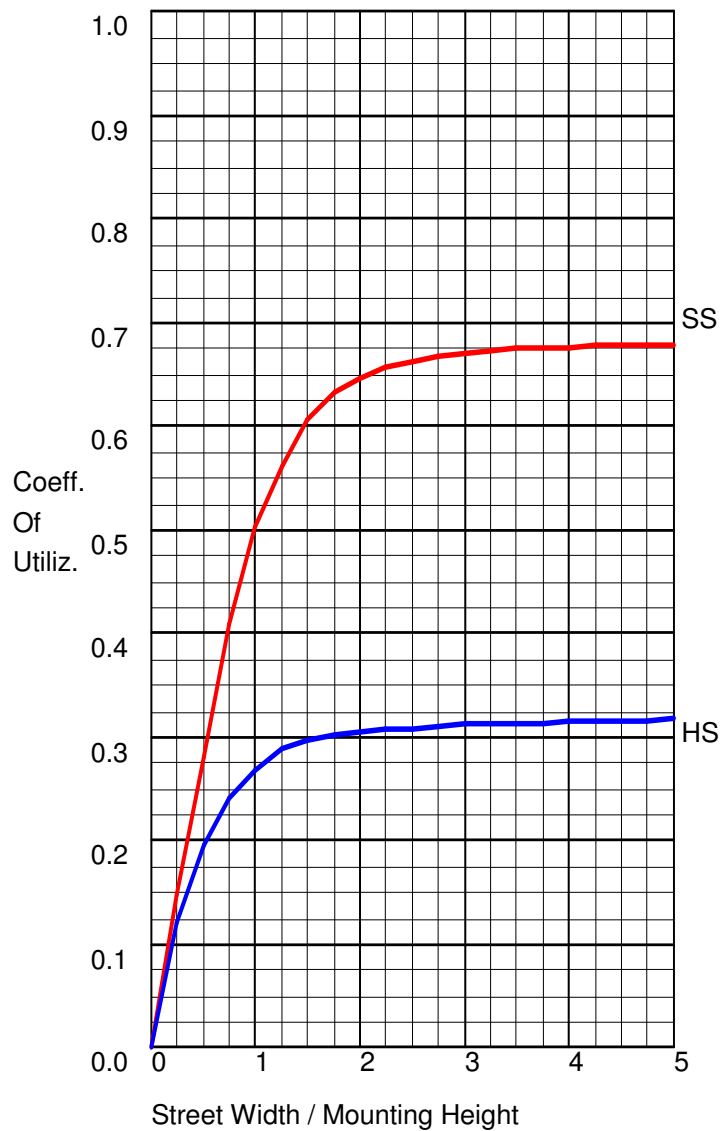
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	2591.921	2591.921
2.5	2486.989	2477.253
5.0	2350.686	2342.032
7.5	2234.937	2227.364
10.0	2150.559	2144.068
12.5	2068.344	2058.608
15.0	1934.205	1921.223
17.5	1702.706	1709.197
20.0	1288.388	1294.879
22.5	935.731	934.649
25.0	870.825	867.579
27.5	938.976	936.813
30.0	1041.744	1043.908
32.5	1130.450	1127.204
35.0	1128.286	1126.123
37.5	1100.160	1099.078
40.0	1258.098	1279.734
42.5	1469.044	1491.761
45.0	1524.214	1539.359
47.5	1555.585	1567.485
50.0	1305.696	1263.507
52.5	771.302	756.157
55.0	518.168	508.432
57.5	387.274	382.947
60.0	344.003	341.839
62.5	342.921	349.412
65.0	390.519	401.337

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L110-730-T3-XX-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	435.953	446.771
70.0	454.343	461.916
72.5	445.689	459.752
75.0	452.180	462.998
77.5	425.136	432.708
80.0	312.632	310.468
82.5	180.656	166.593
85.0	71.397	53.007
87.5	5.409	4.327
90.0	0.000	0.000

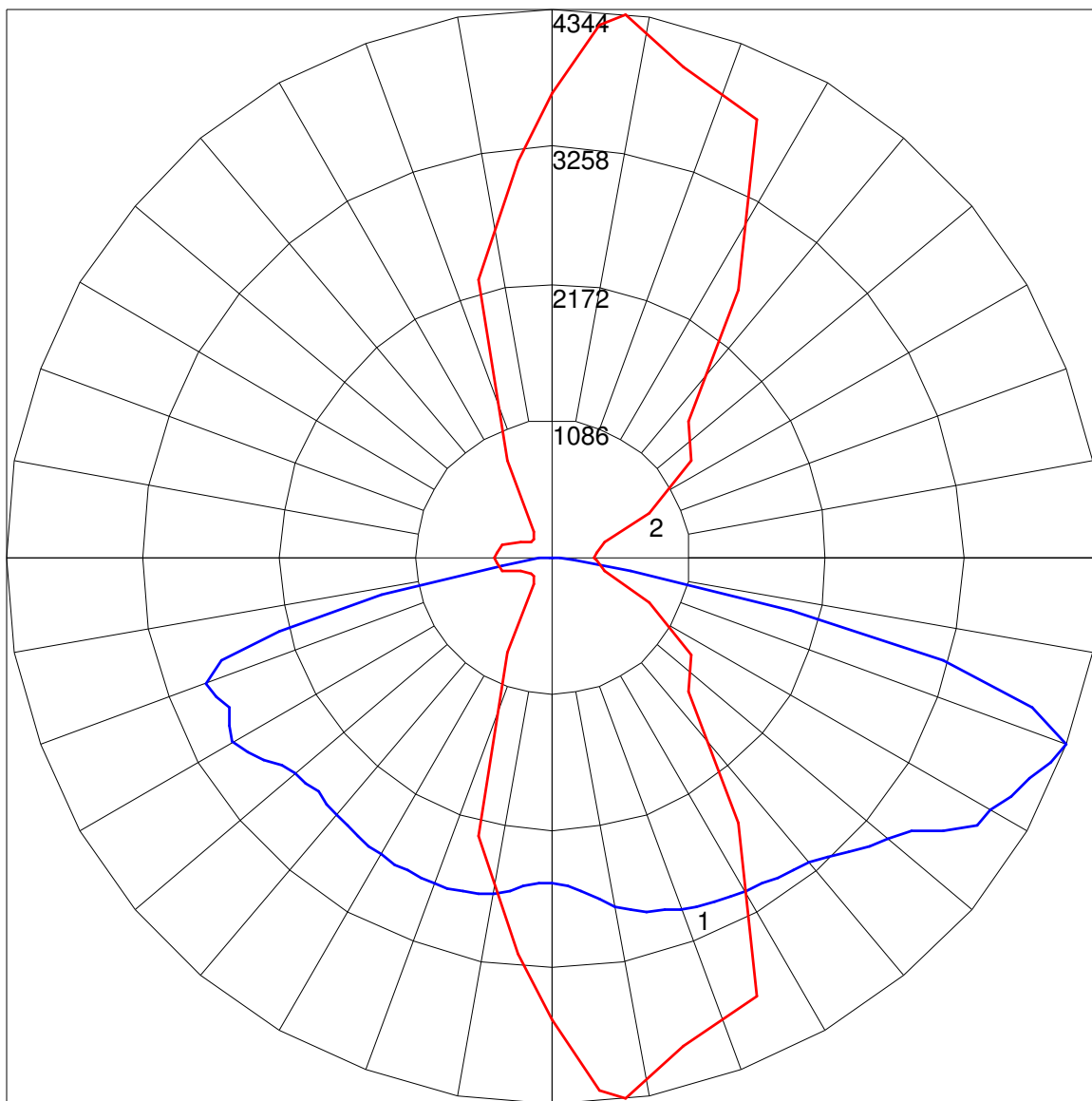
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

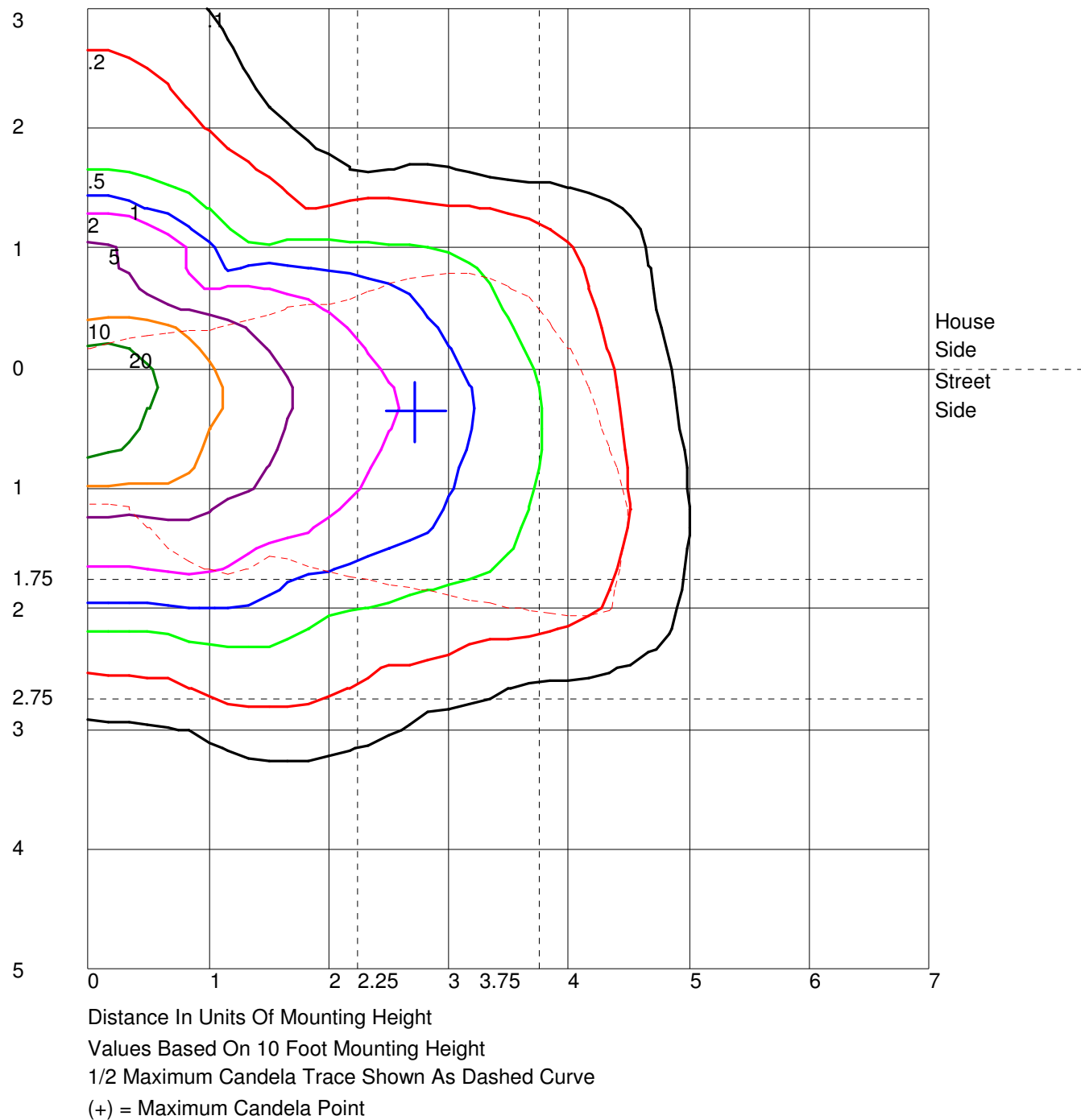
	Lumens	Percent Of Luminaire
Downward Street Side	7100.8	68.0
Downward House Side	3337.5	32.0
Downward Total	10438.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10438.3	100.0

POLAR GRAPH

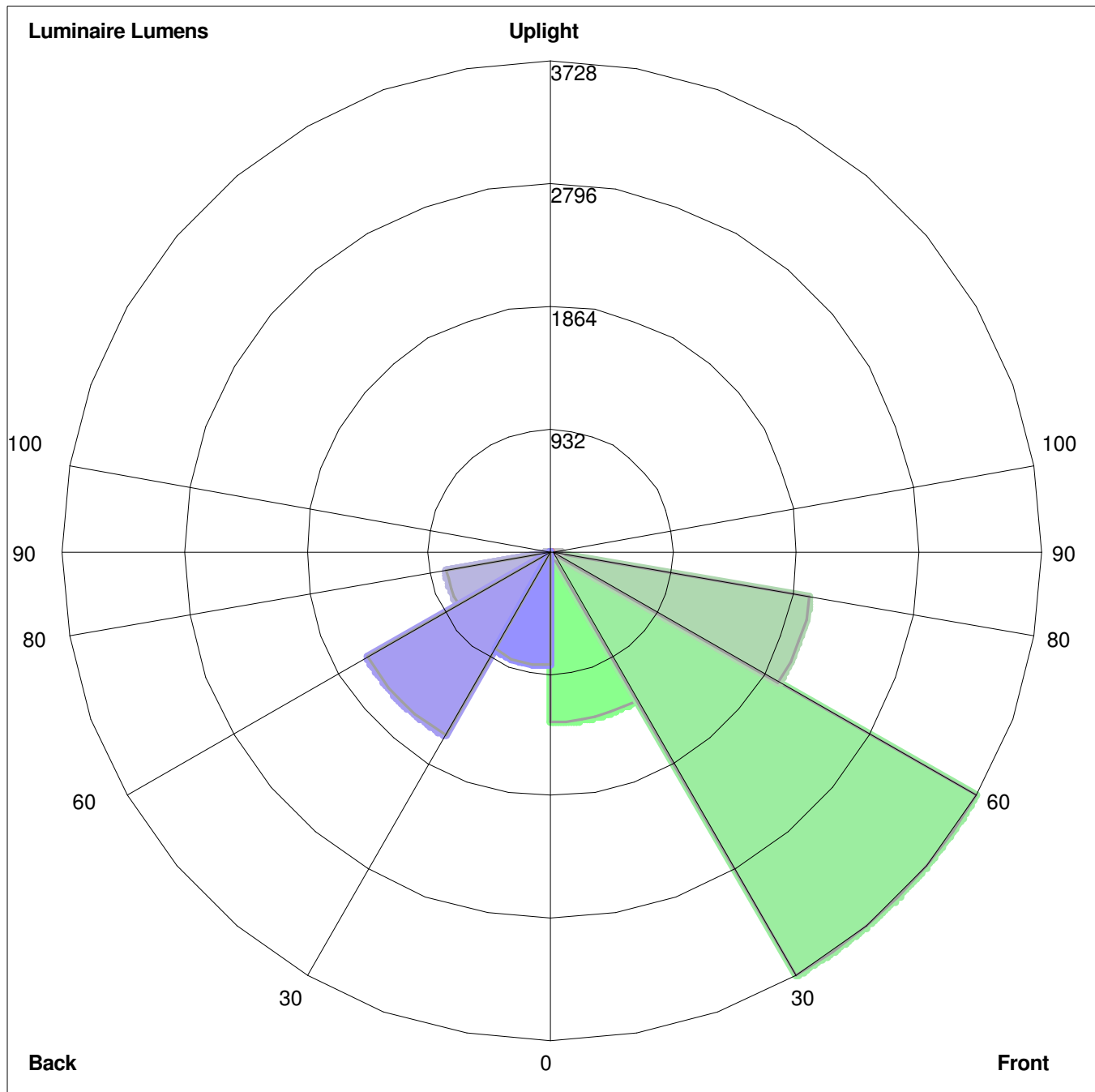


Maximum Candela = 4344.388 Located At Horizontal Angle = 82.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1307.2, Medium=3727.6, High=2000.4, Very High=65.7
Back: Low=865.0, Medium=1616.5, High=816.5, Very High=39.4
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2