



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L110-740-T3-XX-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ATAL009382-R2
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-11-06
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.
[LUMCAT] VG1-L110-740-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	11340
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	4719.808
Maximum Candela Angle	82.5H 70V
Maximum Candela (<90 Degrees Vertical)	4719.808
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	1404.425 (12.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L110-740-T3-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1420.1	N.A.	12.5
FM - Front-Medium (30-60)	4049.7	N.A.	35.7
FH - Front-High (60-80)	2173.2	N.A.	19.2
FVH - Front-Very High (80-90)	71.4	N.A.	0.6
BL - Back-Low (0-30)	939.8	N.A.	8.3
BM - Back-Medium (30-60)	1756.2	N.A.	15.5
BH - Back-High (60-80)	887.0	N.A.	7.8
BVH - Back-Very High (80-90)	42.8	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	11340.2	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	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901
2.5	2905.220	2898.169	2887.592	2889.942	2888.767	2887.592	2872.313	2855.860	2845.283	2837.056
5.0	2942.829	2936.952	2927.550	2938.128	2947.530	2952.231	2946.354	2933.427	2920.499	2899.344
7.5	3008.643	2999.241	2983.962	2992.189	3005.117	3006.292	3007.467	3012.168	3006.292	2980.437
10.0	3142.621	3132.044	3115.590	3124.992	3123.817	3100.312	3085.034	3088.560	3086.209	3056.828
12.5	3199.033	3194.332	3200.208	3230.765	3256.621	3231.940	3184.930	3169.652	3155.549	3117.941
15.0	3173.178	3170.827	3183.755	3236.641	3309.507	3345.940	3297.754	3256.621	3217.837	3164.951
17.5	3254.270	3247.219	3231.940	3248.394	3298.930	3383.548	3388.249	3341.239	3274.249	3201.384
20.0	3470.516	3451.712	3414.104	3372.970	3334.187	3369.445	3425.857	3424.681	3328.311	3233.116
22.5	3726.721	3696.164	3599.794	3521.052	3425.857	3367.094	3409.403	3471.691	3376.496	3263.672
25.0	3926.514	3912.411	3766.679	3640.928	3515.176	3405.877	3383.548	3496.372	3410.578	3288.352
27.5	4106.327	4085.173	3915.936	3732.597	3585.691	3469.341	3390.599	3505.774	3439.960	3311.857
30.0	4200.347	4175.667	4004.080	3828.968	3658.556	3538.681	3432.908	3511.650	3468.166	3331.837
32.5	4248.532	4219.151	4060.492	3900.658	3752.576	3606.845	3485.794	3529.279	3504.599	3348.290
35.0	4276.738	4248.532	4125.131	3993.503	3848.947	3684.412	3530.454	3556.310	3555.134	3371.795
37.5	4253.233	4227.378	4142.760	4078.121	3965.297	3767.855	3565.712	3576.289	3612.722	3401.176
40.0	3959.421	3932.390	4038.162	4109.853	4111.028	3867.751	3597.443	3591.567	3676.185	3443.485
42.5	3310.682	3289.528	3533.980	4029.936	4223.852	3982.926	3632.701	3604.495	3747.875	3515.176
45.0	2713.655	2724.232	2952.231	3572.763	4284.965	4089.874	3680.886	3618.598	3813.690	3600.969
47.5	2402.213	2399.863	2572.624	2969.859	4215.625	4199.172	3737.298	3637.402	3863.050	3692.639
50.0	2188.317	2191.843	2343.451	2750.087	3875.978	4304.944	3804.288	3683.237	3910.060	3785.483
52.5	1987.349	1995.576	2150.709	2670.170	3461.114	4320.223	3945.318	3833.669	4039.338	3895.957
55.0	1833.392	1843.969	1992.050	2603.181	3331.837	4051.090	4138.059	3987.627	4185.069	4103.977
57.5	1670.032	1688.836	1848.670	2522.089	3183.755	3521.052	4279.089	4153.337	4274.388	4335.501
60.0	1444.383	1458.486	1652.403	2361.079	2971.035	3207.260	4281.439	4168.615	4280.264	4355.480
62.5	1176.426	1175.251	1345.662	2056.689	2673.696	2840.582	4152.162	4079.296	4264.986	4463.603
65.0	821.500	819.150	990.737	1665.331	2289.389	2412.790	3830.143	4059.317	4343.728	4541.170
67.5	490.080	504.183	612.306	1226.962	1882.752	2022.607	3296.579	4096.925	4336.676	4652.819
70.0	361.977	372.555	464.224	917.871	1464.363	1655.929	2798.273	4172.141	4374.284	4719.808
72.5	271.483	272.658	356.101	715.728	1074.179	1282.199	2295.265	4011.132	4114.554	4346.078
75.0	192.741	192.741	260.906	533.564	743.934	916.696	1657.104	3469.341	3582.165	3475.217
77.5	124.577	126.927	168.061	366.678	495.956	591.151	1038.922	2737.160	2597.305	2094.297
80.0	70.515	70.515	95.195	224.473	302.040	314.967	705.151	1404.425	1009.541	673.419
82.5	32.907	34.082	43.484	116.350	157.484	141.030	443.070	397.235	312.617	204.494
85.0	8.227	9.402	12.928	35.258	64.639	51.711	149.257	95.195	84.618	49.361
87.5	0.000	0.000	0.000	1.175	3.526	3.526	5.876	4.701	2.351	2.351
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	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901	2815.901
2.5	2838.231	2830.004	2819.427	2797.097	2785.345	2781.819	2750.087	2734.809	2721.881	2723.057
5.0	2900.519	2880.540	2861.736	2812.376	2770.067	2732.459	2673.696	2634.913	2597.305	2582.026
7.5	2976.911	2949.880	2919.324	2845.283	2771.242	2703.077	2619.634	2553.820	2495.058	2459.800
10.0	3046.251	3012.168	2972.210	2877.014	2775.943	2683.098	2580.851	2497.408	2423.368	2374.007
12.5	3101.487	3060.354	3009.818	2893.468	2770.067	2657.243	2553.820	2460.976	2370.481	2298.791
15.0	3142.621	3095.611	3032.148	2895.818	2751.263	2629.037	2532.666	2419.842	2285.863	2177.740
17.5	3175.528	3117.941	3042.725	2887.592	2716.005	2600.830	2491.532	2334.049	2142.483	1975.597
20.0	3204.909	3134.394	3047.426	2871.138	2683.098	2567.923	2412.790	2183.616	1882.752	1577.187
22.5	3229.590	3150.848	3046.251	2852.334	2652.542	2507.986	2288.214	1923.886	1438.507	1139.993
25.0	3247.219	3162.600	3043.900	2831.180	2631.387	2424.543	2108.400	1526.651	1087.107	976.634
27.5	3266.023	3170.827	3041.550	2813.551	2609.057	2315.244	1838.093	1168.200	1011.891	1001.314

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PHOTOMETRIC FILENAME : VG1-L110-740-T3-XX-XXX-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

30.0	3282.476	3169.652	3035.673	2795.922	2569.099	2175.390	1505.497	1062.427	1058.901	1108.262
32.5	3291.878	3163.776	3022.746	2774.768	2516.212	2002.628	1225.787	1074.179	1148.220	1206.983
35.0	3310.682	3167.301	3008.643	2758.314	2446.873	1805.186	1163.498	1130.591	1197.581	1222.261
37.5	3338.888	3175.528	2995.715	2735.984	2361.079	1568.960	1138.818	1151.746	1163.498	1182.303
40.0	3370.620	3183.755	2982.787	2694.851	2256.482	1312.755	1110.612	1110.612	1110.612	1188.179
42.5	3425.857	3204.909	2973.385	2631.387	2115.452	1105.911	1021.293	1049.499	1203.457	1474.940
45.0	3494.021	3236.641	2975.736	2574.975	1934.463	957.830	896.717	1024.819	1417.353	1578.362
47.5	3570.413	3286.002	2999.241	2536.192	1737.021	795.645	781.542	1222.261	1449.084	1610.094
50.0	3647.979	3338.888	3032.148	2520.913	1588.939	665.192	718.078	1277.498	1406.775	1430.280
52.5	3738.473	3392.950	3080.333	2542.068	1533.703	573.522	762.738	1083.581	890.840	812.098
55.0	3940.617	3546.908	3199.033	2612.583	1518.424	511.234	638.161	602.904	539.440	538.265
57.5	4178.017	3738.473	3301.280	2624.335	1439.682	463.049	427.791	439.544	434.843	416.039
60.0	4215.625	3831.318	3410.578	2602.006	1332.735	421.915	370.204	370.204	381.957	370.204
62.5	4310.821	3843.071	3378.847	2471.553	1223.436	380.781	347.874	324.369	351.400	352.575
65.0	4381.336	3851.298	3321.259	2349.327	1115.313	341.998	316.143	292.638	325.545	369.029
67.5	4517.665	3950.019	3401.176	2404.564	1000.139	307.916	265.607	264.431	303.215	411.338
70.0	4612.860	4004.080	3431.733	2484.481	916.696	280.885	229.174	231.524	304.390	443.070
72.5	4275.563	3743.174	3206.085	2364.605	820.325	243.277	195.092	202.143	314.967	431.317
75.0	3418.805	3040.374	2592.604	1994.401	588.801	203.318	164.535	179.813	313.792	420.740
77.5	1906.257	1747.598	1529.002	1445.559	320.844	165.710	135.154	162.185	286.761	403.111
80.0	574.698	492.430	410.163	518.286	180.989	116.350	103.422	137.504	243.277	330.246
82.5	205.669	161.009	135.154	124.577	97.546	69.340	65.814	94.020	170.411	203.318
85.0	49.361	38.783	34.082	30.557	30.557	28.206	25.856	50.536	79.917	86.969
87.5	2.351	2.351	1.175	2.351	2.351	1.175	1.175	8.227	8.227	9.402
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

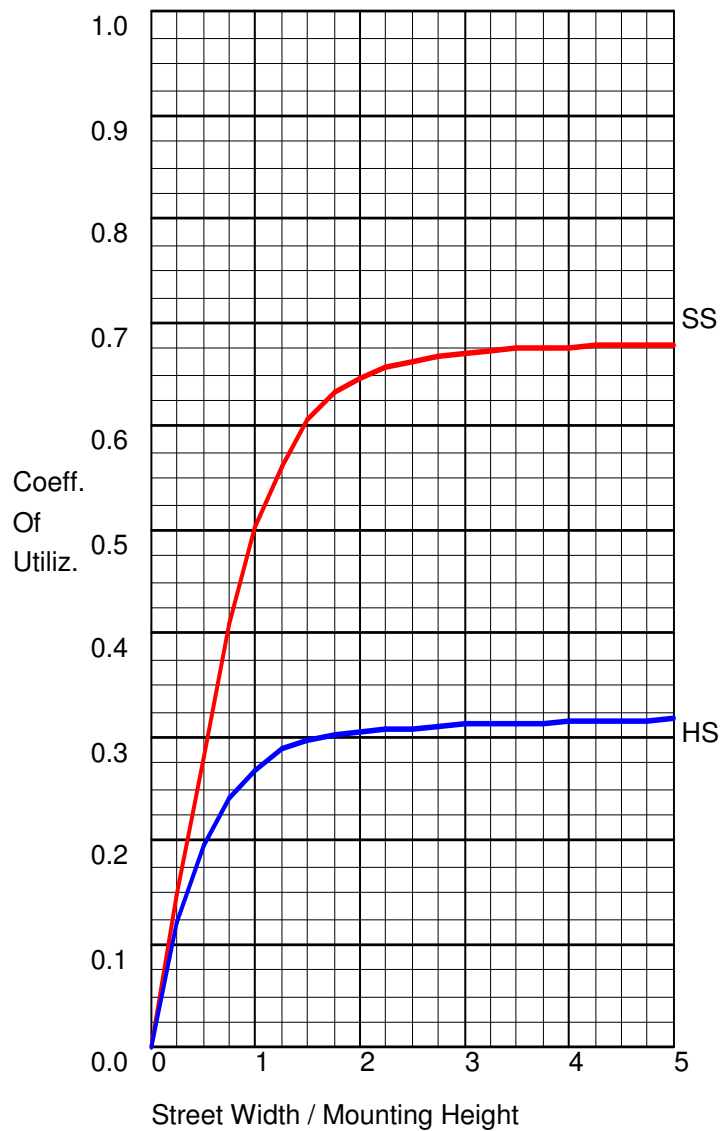
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	2815.901	2815.901
2.5	2701.902	2691.325
5.0	2553.820	2544.418
7.5	2428.069	2419.842
10.0	2336.399	2329.347
12.5	2247.080	2236.503
15.0	2101.349	2087.246
17.5	1849.845	1856.897
20.0	1399.724	1406.775
22.5	1016.592	1015.417
25.0	946.077	942.551
27.5	1020.118	1017.767
30.0	1131.767	1134.117
32.5	1228.137	1224.612
35.0	1225.787	1223.436
37.5	1195.230	1194.055
40.0	1366.817	1390.322
42.5	1595.991	1620.671
45.0	1655.929	1672.382
47.5	1690.011	1702.939
50.0	1418.528	1372.693
52.5	837.954	821.500
55.0	562.945	552.368
57.5	420.740	416.039
60.0	373.730	371.379
62.5	372.555	379.606
65.0	424.266	436.018

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L110-740-T3-XX-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	473.626	485.379
70.0	493.605	501.832
72.5	484.203	499.482
75.0	491.255	503.007
77.5	461.874	470.100
80.0	339.648	337.297
82.5	196.267	180.989
85.0	77.567	57.587
87.5	5.876	4.701
90.0	0.000	0.000

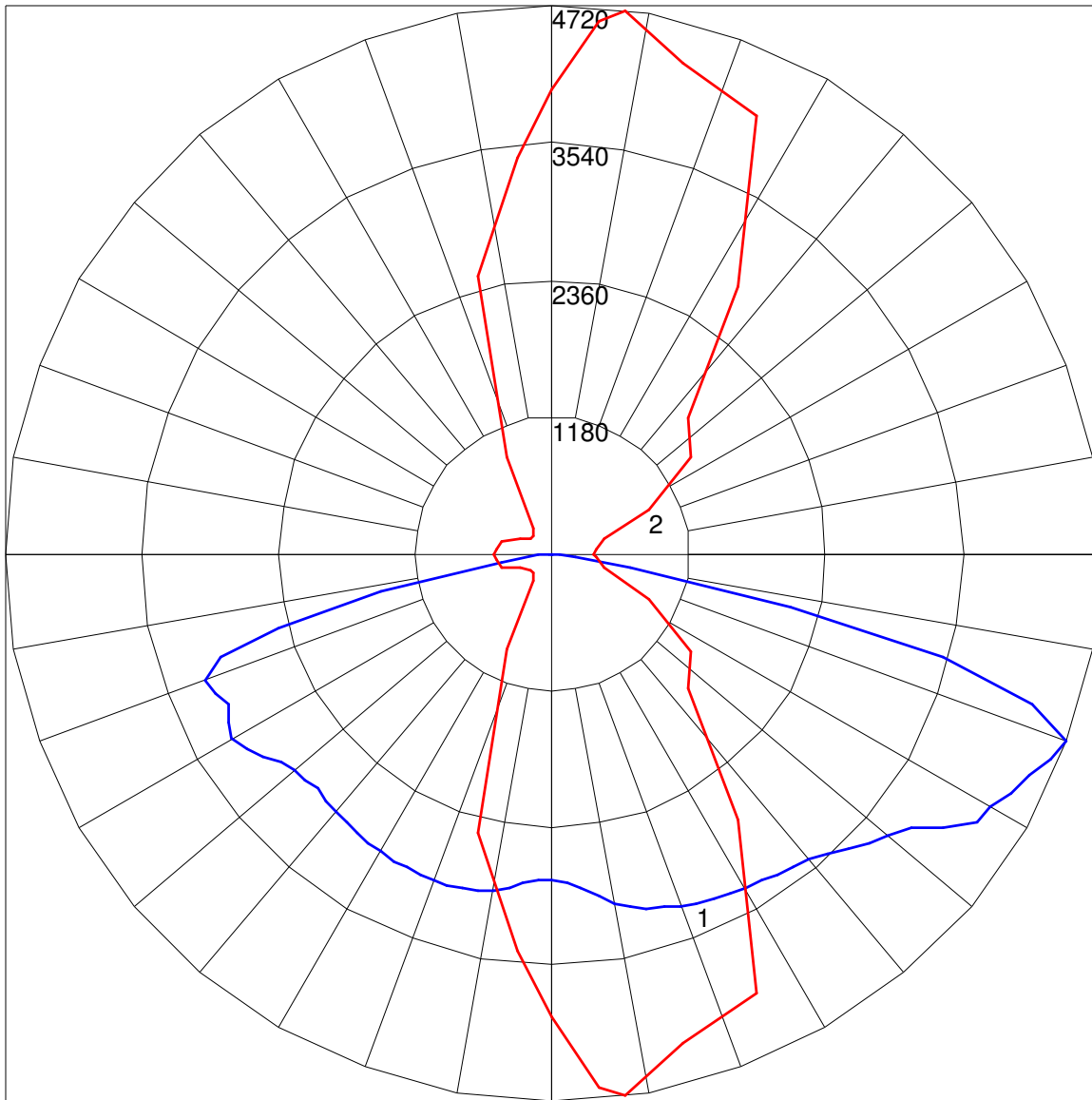
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

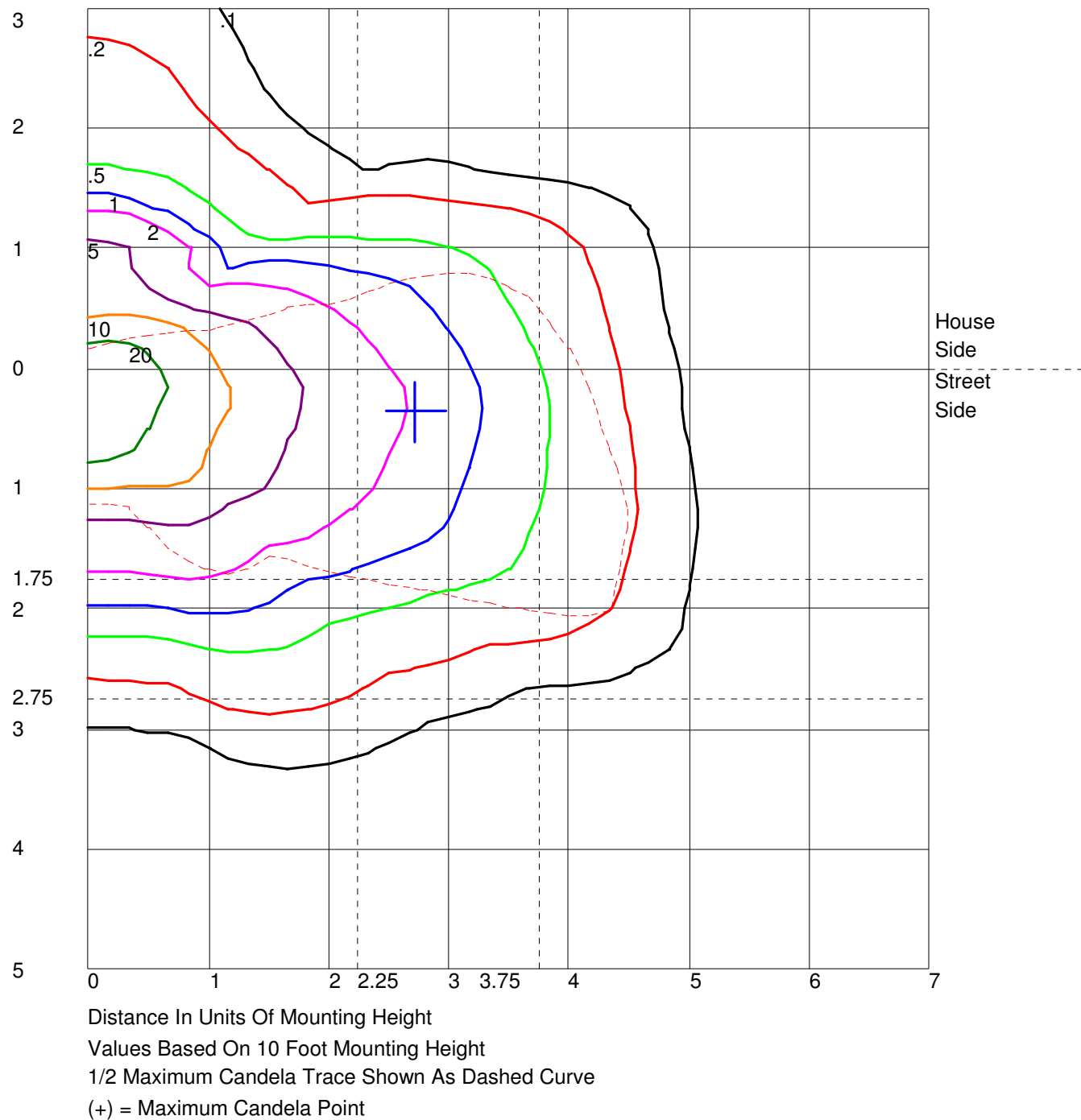
	Lumens	Percent Of Luminaire
Downward Street Side	7714.5	68.0
Downward House Side	3625.9	32.0
Downward Total	11340.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11340.4	100.0

POLAR GRAPH

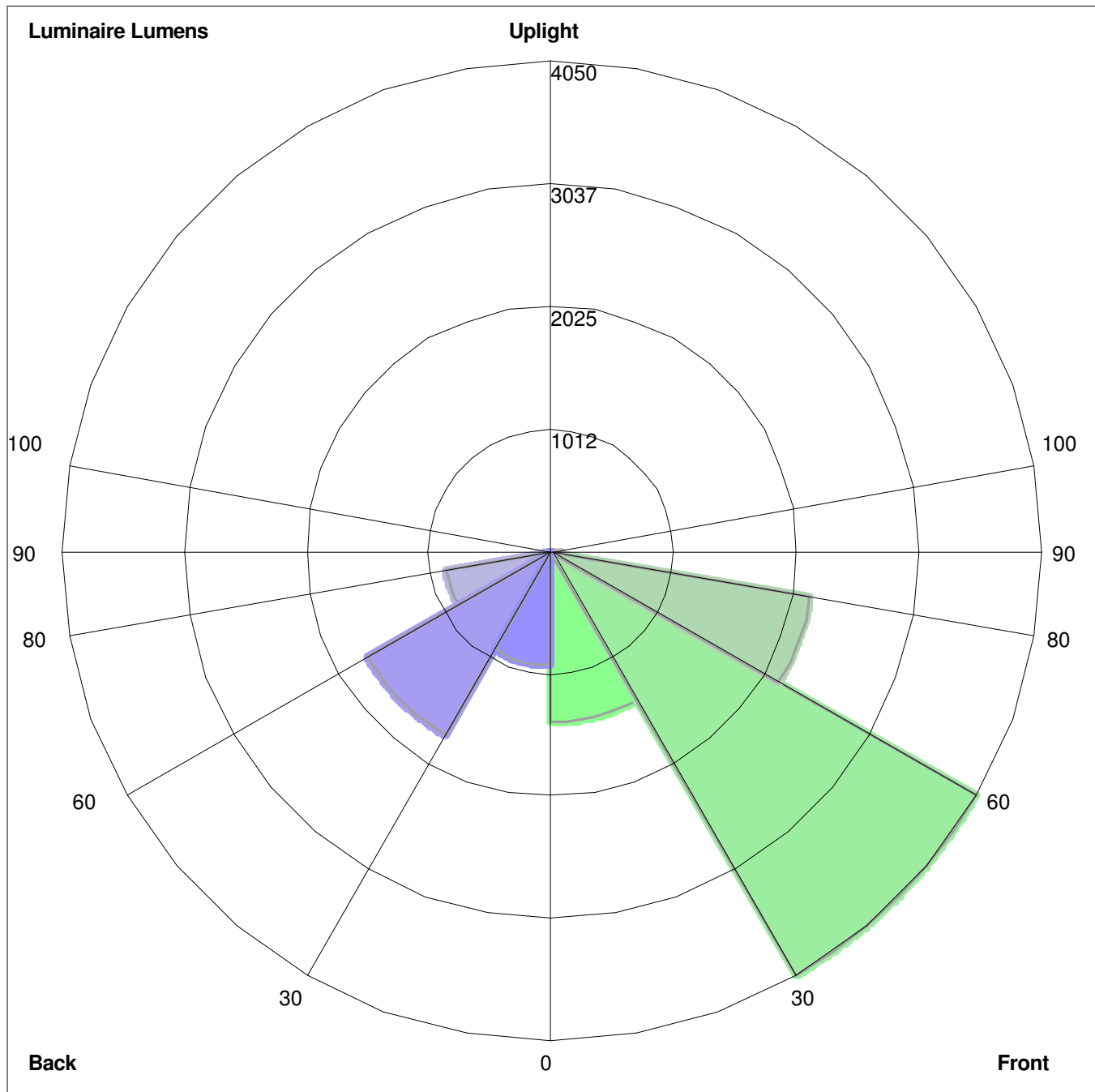


Maximum Candela = 4719.808 Located At Horizontal Angle = 82.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1420.1, Medium=4049.7, High=2173.2, Very High=71.4
Back: Low=939.8, Medium=1756.2, High=887.0, Very High=42.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2