



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ATAL009393-R2
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-11-06
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VG1-L110-740-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	12027
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	104
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5036.007
Maximum Candela Angle	45H 45V
Maximum Candela (<90 Degrees Vertical)	5036.007
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	86.888 (0.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1480.1	N.A.	12.3
FM - Front-Medium (30-60)	4089.1	N.A.	34.0
FH - Front-High (60-80)	432.5	N.A.	3.6
FVH - Front-Very High (80-90)	11.9	N.A.	0.1
BL - Back-Low (0-30)	1480.1	N.A.	12.3
BM - Back-Medium (30-60)	4089.1	N.A.	34.0
BH - Back-High (60-80)	432.5	N.A.	3.6
BVH - Back-Very High (80-90)	11.9	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	12027.2	N.A.	100.0
BUG Rating	B3-U0-G1		

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CANDELA TABULATION

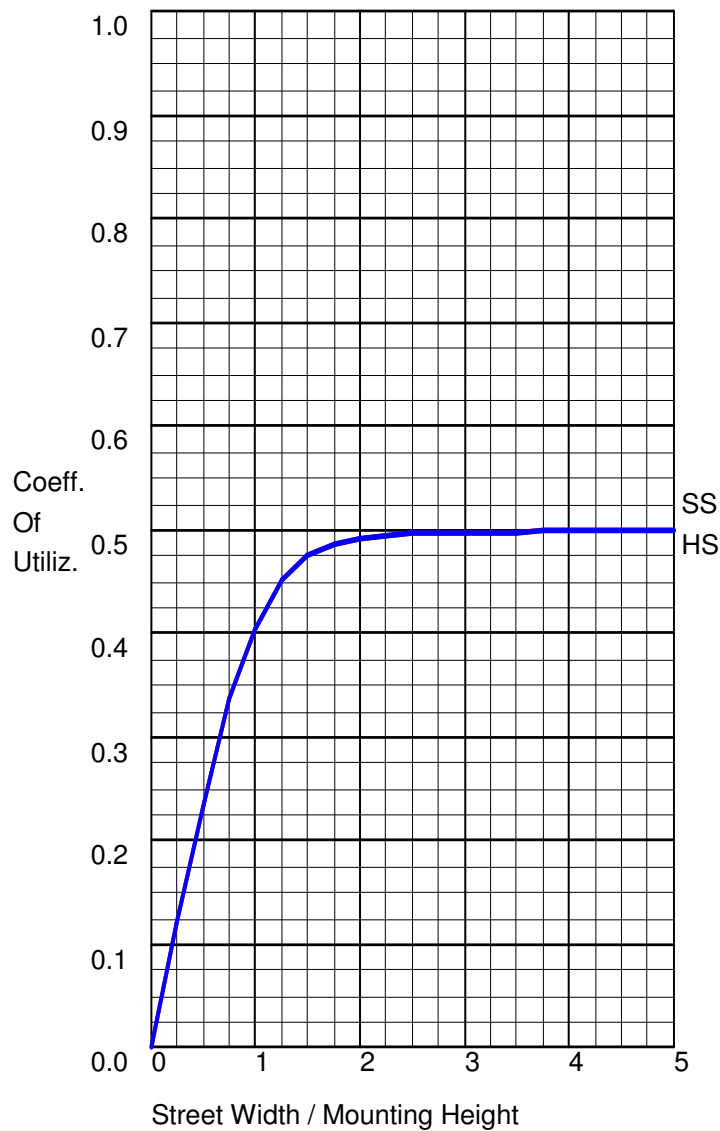
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862
2.5	3365.165	3366.340	3369.862	3369.862	3366.340	3371.036	3371.036	3369.862	3369.862	3368.688
5.0	3363.991	3361.643	3360.469	3361.643	3358.120	3362.817	3366.340	3366.340	3367.514	3363.991
7.5	3360.469	3355.772	3353.424	3353.424	3354.598	3359.295	3366.340	3368.688	3371.036	3366.340
10.0	3360.469	3353.424	3347.553	3352.250	3358.120	3365.165	3375.733	3380.430	3385.126	3380.430
12.5	3366.340	3361.643	3354.598	3361.643	3374.559	3382.778	3395.694	3402.739	3408.610	3406.261
15.0	3392.171	3388.649	3382.778	3392.171	3409.784	3419.177	3432.093	3442.661	3449.706	3447.357
17.5	3422.700	3421.526	3421.526	3434.441	3457.925	3472.015	3483.756	3497.846	3504.891	3504.891
20.0	3446.183	3448.531	3455.576	3475.537	3507.240	3531.897	3548.336	3565.948	3576.516	3577.690
22.5	3447.357	3453.228	3472.015	3506.066	3549.510	3587.083	3615.263	3636.398	3656.359	3658.707
25.0	3423.874	3434.441	3470.841	3526.026	3587.083	3642.269	3688.062	3716.242	3744.422	3747.944
27.5	3388.649	3409.784	3462.621	3538.942	3628.179	3703.326	3770.253	3814.872	3852.445	3858.316
30.0	3374.559	3403.913	3472.015	3564.774	3681.017	3783.169	3871.232	3941.682	3994.520	4007.435
32.5	3395.694	3429.745	3507.240	3612.915	3753.815	3887.670	4003.913	4100.195	4167.122	4189.431
35.0	3432.093	3467.318	3550.684	3675.146	3838.355	4003.913	4149.510	4275.146	4360.860	4390.214
37.5	3462.621	3496.672	3587.083	3733.854	3926.418	4116.633	4286.887	4441.878	4553.423	4589.823
40.0	3473.189	3509.588	3609.392	3777.298	4001.565	4217.611	4407.827	4580.429	4727.200	4791.780
42.5	3496.672	3536.594	3646.966	3827.788	4057.925	4273.971	4472.406	4676.711	4869.275	4956.163
45.0	3537.768	3583.561	3709.197	3890.019	4090.801	4258.707	4420.742	4668.492	4926.809	5036.007
47.5	3533.071	3582.387	3713.893	3879.451	4021.525	4126.026	4258.707	4533.463	4858.707	5017.220
50.0	3319.373	3375.733	3522.504	3676.320	3786.692	3855.968	4000.390	4313.893	4655.576	4822.308
52.5	2852.054	2913.111	3063.404	3244.226	3356.946	3468.492	3664.578	3981.604	4255.185	4356.163
55.0	2232.093	2300.195	2456.359	2648.923	2787.475	2953.032	3171.428	3461.447	3611.741	3630.527
57.5	1596.868	1655.577	1809.393	2028.962	2173.385	2347.162	2564.383	2780.430	2825.048	2827.397
60.0	969.863	1009.784	1134.246	1359.687	1526.418	1697.847	1871.624	2016.046	2025.440	2031.311
62.5	538.943	563.601	648.141	774.951	918.199	1057.925	1182.387	1266.927	1269.276	1277.495
65.0	349.902	358.121	396.869	459.100	528.376	610.567	672.798	720.939	726.810	751.468
67.5	250.098	255.969	275.929	309.980	346.380	388.650	426.223	454.403	461.448	472.016
70.0	189.041	192.564	205.479	226.614	248.924	272.407	294.716	312.329	318.200	324.070
72.5	145.597	147.945	157.339	171.429	184.344	200.783	213.699	225.440	230.137	234.834
75.0	109.198	112.720	118.591	127.984	136.203	147.945	156.164	164.384	167.906	171.429
77.5	78.669	81.018	85.714	92.759	98.630	106.849	111.546	117.417	120.939	125.636
80.0	49.315	51.663	56.360	61.057	65.753	70.450	72.798	78.669	83.366	86.888
82.5	23.483	25.832	30.528	35.225	38.748	39.922	41.096	43.444	48.141	54.012
85.0	8.219	9.393	11.742	15.264	16.438	16.438	15.264	15.264	17.613	21.135
87.5	2.348	2.348	2.348	2.348	2.348	2.348	2.348	2.348	2.348	3.523
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>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	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862	3369.862
2.5	3372.210	3378.081	3373.385	3362.817	3358.120	3359.295	3365.165	3366.340	3366.340
5.0	3366.340	3368.688	3363.991	3356.946	3355.772	3355.772	3360.469	3360.469	3360.469
7.5	3367.514	3365.165	3359.295	3355.772	3355.772	3353.424	3355.772	3353.424	3353.424
10.0	3378.081	3369.862	3362.817	3360.469	3360.469	3355.772	3352.250	3347.553	3347.553
12.5	3399.216	3387.475	3379.255	3378.081	3375.733	3368.688	3358.120	3352.250	3349.901
15.0	3435.616	3421.526	3415.655	3413.306	3409.784	3401.565	3383.952	3375.733	3371.036
17.5	3489.627	3472.015	3467.318	3464.970	3459.099	3445.009	3416.829	3405.087	3399.216
20.0	3561.252	3535.420	3527.201	3521.330	3509.588	3484.931	3446.183	3422.700	3415.655
22.5	3635.224	3604.696	3588.257	3575.342	3554.207	3514.285	3461.447	3422.700	3409.784
25.0	3720.938	3685.713	3657.533	3632.876	3594.128	3533.071	3461.447	3403.913	3383.952
27.5	3830.136	3787.866	3744.422	3697.455	3634.050	3548.336	3455.576	3382.778	3353.424

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30.0	3976.907	3921.721	3858.316	3783.169	3689.236	3577.690	3469.666	3386.300	3351.075
32.5	4161.251	4090.801	4002.739	3893.541	3764.383	3625.831	3502.543	3413.306	3375.733
35.0	4359.686	4273.971	4155.381	4012.132	3846.574	3679.842	3542.465	3450.880	3413.306
37.5	4549.901	4444.226	4295.107	4123.678	3928.766	3733.854	3578.864	3479.060	3442.661
40.0	4730.723	4589.823	4419.568	4221.134	3996.868	3774.950	3599.999	3493.150	3453.228
42.5	4879.842	4688.453	4481.799	4272.797	4047.357	3814.872	3622.308	3503.717	3457.925
45.0	4935.028	4676.711	4424.265	4239.921	4050.880	3827.788	3619.960	3479.060	3422.700
47.5	4862.230	4539.333	4246.966	4066.144	3932.289	3737.377	3536.594	3375.733	3313.502
50.0	4654.402	4308.022	3962.817	3759.686	3661.056	3493.150	3308.805	3129.158	3061.056
52.5	4263.404	3945.204	3602.347	3354.598	3233.659	3083.365	2923.678	2756.946	2700.586
55.0	3612.915	3422.700	3111.545	2847.357	2715.851	2593.737	2468.101	2327.201	2259.099
57.5	2826.222	2735.811	2504.500	2276.712	2163.992	2071.232	1981.996	1881.017	1838.747
60.0	2034.833	1976.125	1824.657	1648.532	1566.340	1500.587	1444.227	1371.428	1343.248
62.5	1299.804	1261.056	1144.814	1029.745	974.559	932.289	904.109	860.665	846.575
65.0	740.900	716.242	656.360	602.348	567.123	530.724	513.111	482.583	477.886
67.5	463.796	447.358	421.526	388.650	362.818	339.335	314.677	295.890	293.542
70.0	318.200	307.632	292.368	271.233	253.620	231.311	210.176	196.086	194.912
72.5	230.137	223.092	212.524	197.260	181.996	163.209	146.771	136.203	135.029
75.0	169.080	164.384	157.339	143.248	130.333	115.068	102.153	93.933	92.759
77.5	123.288	119.765	115.068	103.327	91.585	79.843	68.102	62.231	62.231
80.0	85.714	83.366	79.843	71.624	61.057	50.489	41.096	37.573	36.399
82.5	54.012	51.663	50.489	42.270	35.225	27.006	21.135	17.613	17.613
85.0	21.135	19.961	21.135	18.787	15.264	10.568	9.393	7.045	7.045
87.5	3.523	2.348	2.348	2.348	2.348	2.348	2.348	2.348	2.348
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

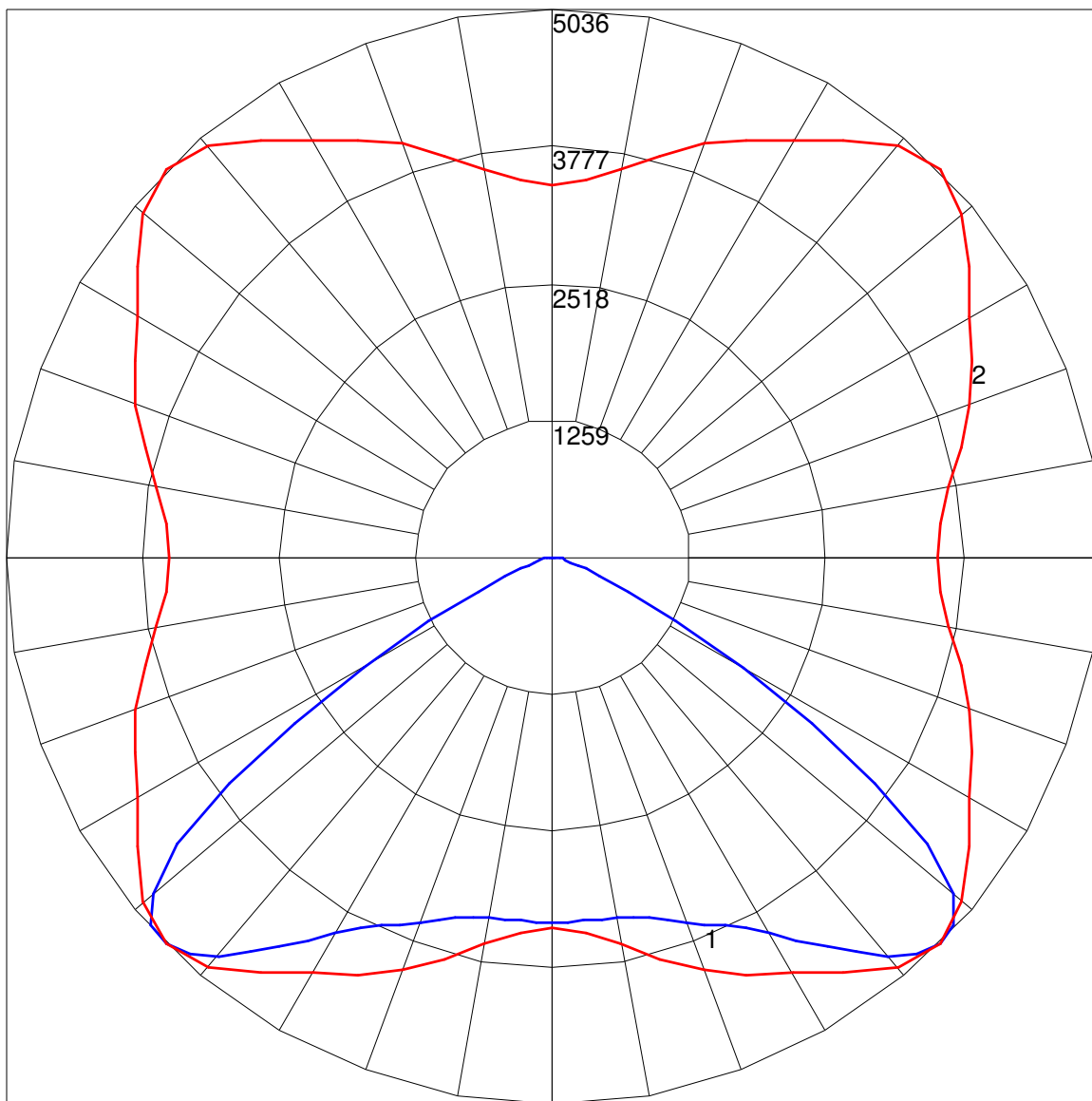
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

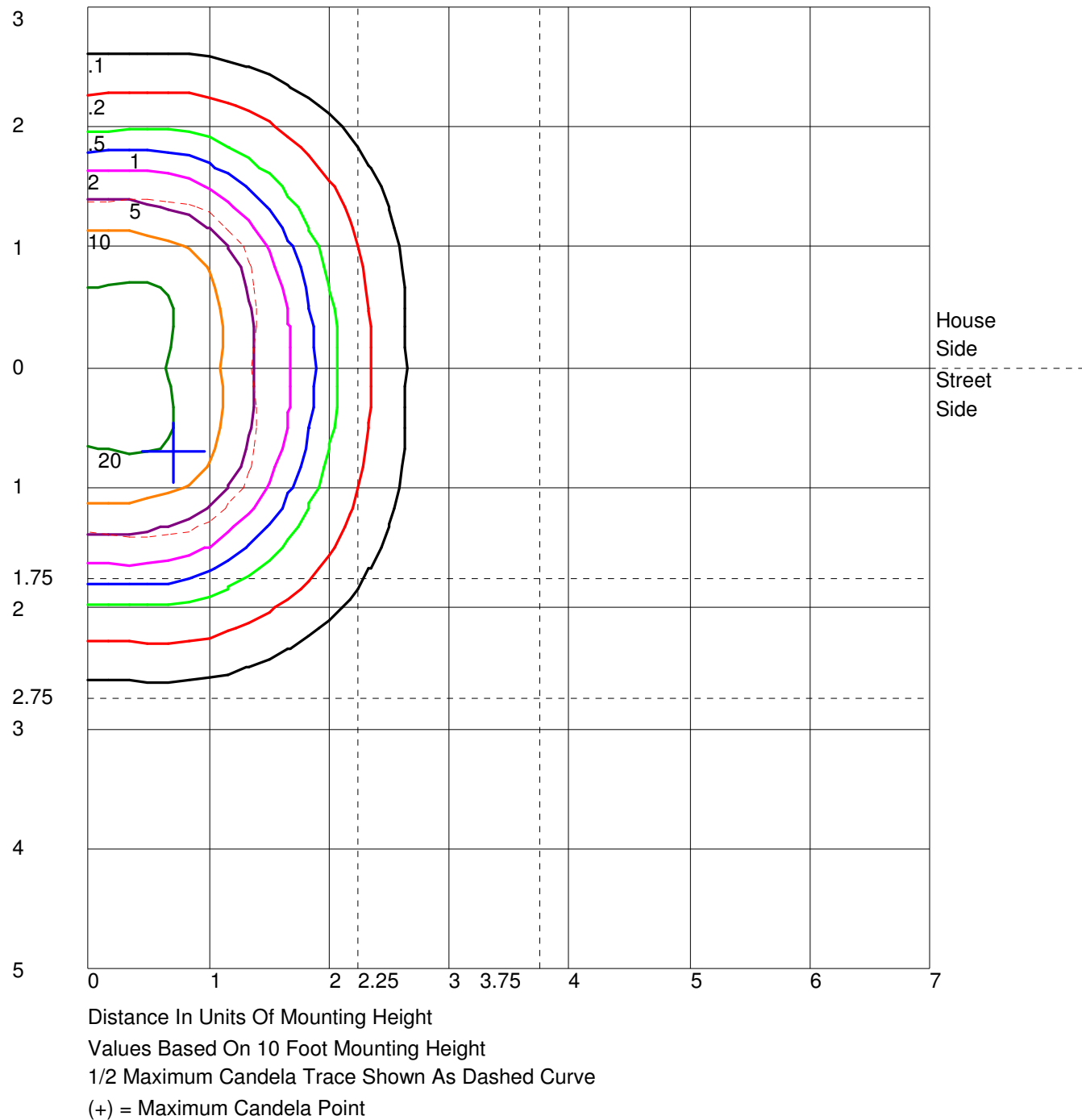
	Lumens	Percent Of Luminaire
Downward Street Side	6013.6	50.0
Downward House Side	6013.6	50.0
Downward Total	12027.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	12027.2	100.0

POLAR GRAPH

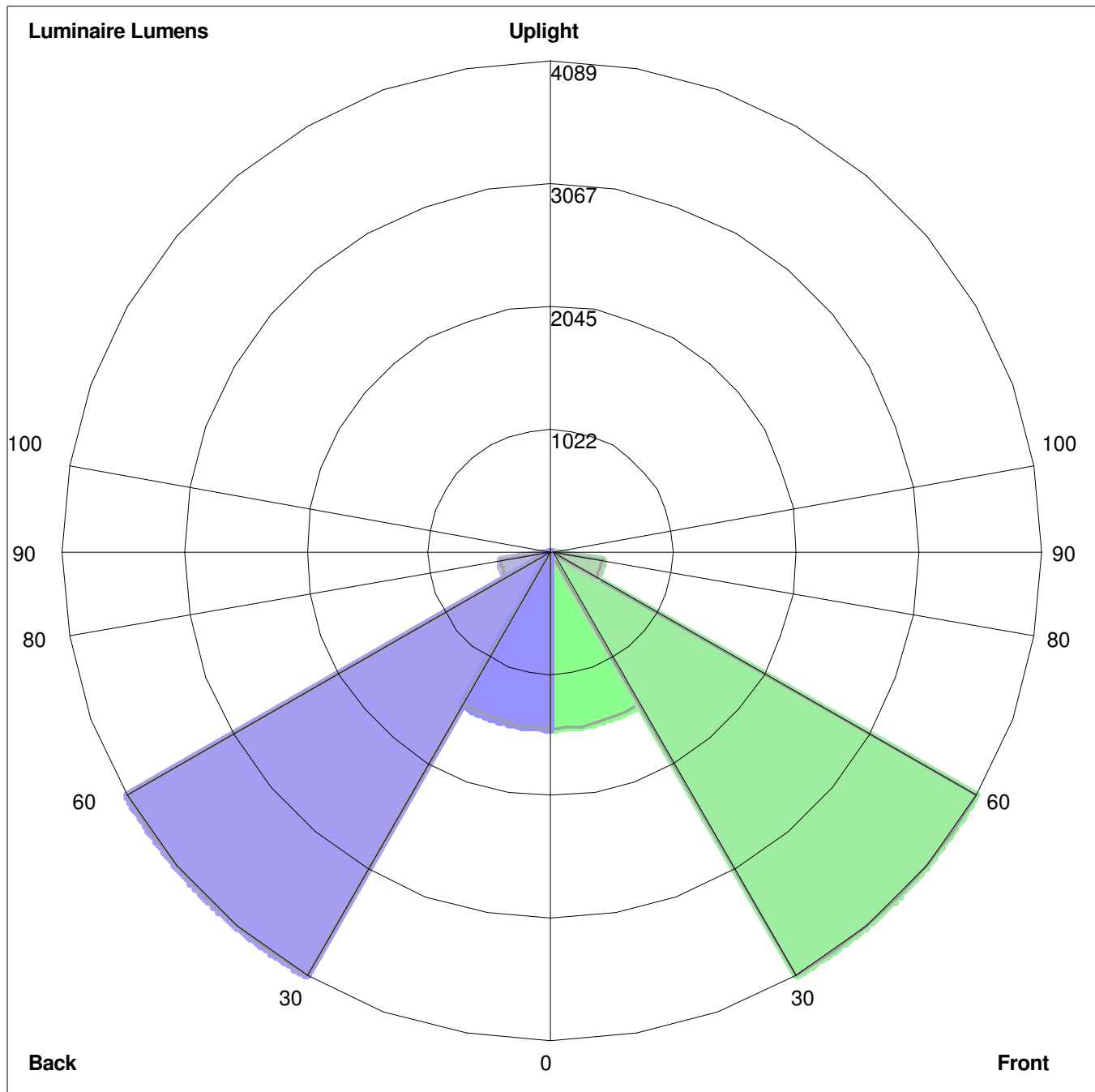


Maximum Candela = 5036.007 Located At Horizontal Angle = 45, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1480.1, Medium=4089.1, High=432.5, Very High=11.9
Back: Low=1480.1, Medium=4089.1, High=432.5, Very High=11.9
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1