



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-730-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L380-730-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE III OPTICS, CLEAR LENS,
[MORE] (2) LED MODULES AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Area, Parking
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	35860
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26490.905
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	26490.905
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	6150.238 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-730-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3564.4	N.A.	9.9
FM - Front-Medium (30-60)	12466.8	N.A.	34.8
FH - Front-High (60-80)	8833.9	N.A.	24.6
FVH - Front-Very High (80-90)	295.6	N.A.	0.8
BL - Back-Low (0-30)	1919.1	N.A.	5.4
BM - Back-Medium (30-60)	4418.9	N.A.	12.3
BH - Back-High (60-80)	3956.4	N.A.	11.0
BVH - Back-Very High (80-90)	405.3	N.A.	1.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	35860.4	N.A.	100.0
BUG Rating	B4-U0-G4		

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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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877
2.5	7723.004	7709.843	7709.843	7723.004	7686.153	7654.566	7650.618	7625.611	7604.553	7561.121
5.0	8037.557	8044.138	8037.557	8027.028	7979.648	7928.319	7900.681	7819.081	7792.759	7683.521
7.5	8090.202	8103.363	8102.047	8111.260	8112.576	8105.996	8092.835	7999.390	7974.384	7812.501
10.0	8040.190	8042.822	8040.190	8058.615	8090.202	8140.215	8187.595	8145.479	8128.370	7954.642
12.5	8024.396	8024.396	8007.287	8021.764	8059.931	8125.738	8212.602	8236.292	8242.872	8100.731
15.0	8092.835	8079.673	8050.719	8036.241	8066.512	8134.950	8231.027	8304.730	8320.524	8256.034
17.5	8224.447	8227.079	8188.911	8144.163	8137.583	8188.911	8284.988	8388.962	8404.755	8417.917
20.0	8402.123	8410.020	8375.801	8324.472	8302.098	8307.362	8395.543	8512.677	8536.368	8603.490
22.5	8544.264	8569.271	8544.264	8531.103	8516.626	8513.994	8581.116	8679.825	8716.676	8794.328
25.0	8664.031	8666.664	8657.451	8689.038	8749.579	8766.689	8812.753	8874.611	8919.359	8978.585
27.5	8779.850	8758.792	8728.521	8786.431	8941.733	9056.236	9083.874	9102.300	9122.042	9156.261
30.0	8881.192	8865.398	8827.231	8831.179	9039.126	9354.996	9410.273	9377.370	9358.944	9344.467
32.5	8895.669	8883.824	8898.301	8939.101	9111.513	9635.330	9777.471	9660.336	9630.065	9506.350
35.0	8871.979	8869.347	8921.991	9052.287	9339.202	9897.238	10192.049	10027.534	9934.089	9664.284
37.5	8816.702	8810.121	8900.933	9208.906	9728.774	10240.746	10661.905	10425.003	10265.752	9770.890
40.0	8714.044	8737.734	8879.876	9489.240	10597.415	11333.127	11301.540	10852.742	10650.060	9886.709
42.5	8667.980	8695.618	8827.231	9432.647	10827.736	12455.779	12638.720	11727.964	11329.179	10070.966
45.0	9081.242	9087.823	9024.649	9420.802	10630.318	12408.399	13692.934	13183.595	12745.326	10647.427
47.5	9964.360	9951.199	9899.870	9986.734	10673.750	12067.523	13802.172	14114.093	13960.107	12063.575
50.0	9924.876	9897.238	10194.681	10768.511	11304.172	121983.291	13346.794	14075.925	14031.177	12722.952
52.5	9203.642	9220.751	9799.845	10794.833	12067.523	12613.714	13108.576	13588.960	13627.128	12445.250
55.0	7257.097	7350.542	8556.109	10555.299	12666.359	14286.505	13817.965	13752.159	13824.546	12709.791
57.5	5350.036	5456.642	6683.268	9397.111	12842.719	16541.022	15789.516	14752.412	14669.496	13312.575
60.0	4223.436	4293.190	5023.638	6824.093	11626.622	18428.341	19754.992	16614.725	16310.701	14397.059
62.5	3271.879	3250.821	3631.181	4457.705	8806.173	17742.641	24357.471	19865.546	18940.312	16056.689
65.0	2300.581	2321.639	2544.064	2929.688	5240.798	15838.213	25194.524	24145.575	22658.357	18178.278
67.5	1986.028	1997.873	2265.046	2371.652	2769.121	10885.646	22903.156	26490.905	25586.729	19695.767
70.0	1584.611	1547.760	1905.745	2070.260	2046.570	4867.019	18879.771	24619.379	25272.176	20302.499
72.5	1126.600	1087.117	1223.994	1743.862	1574.082	2525.638	12101.742	19702.347	21014.521	18987.693
75.0	859.428	848.899	872.589	1333.232	1264.793	1533.282	5244.746	13199.388	14541.833	13557.373
77.5	575.145	569.881	592.255	879.170	1059.478	1023.943	2132.118	6193.670	7579.547	8832.495
80.0	360.617	350.088	382.992	547.507	913.389	658.061	1034.472	2284.788	3595.645	6150.238
82.5	188.205	189.522	211.896	318.502	623.842	369.830	525.133	833.105	1225.310	3125.790
85.0	73.703	73.703	85.548	138.193	223.741	147.406	200.051	265.857	346.140	717.287
87.5	9.213	10.529	13.161	21.058	28.955	21.058	32.903	32.903	43.432	47.380
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	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877	7426.877
2.5	7493.999	7487.418	7441.354	7372.916	7290.000	7199.188	7149.175	7092.582	7003.085	6980.711
5.0	7537.431	7479.522	7390.025	7226.826	7047.834	6845.151	6693.797	6546.391	6413.463	6330.547
7.5	7603.237	7497.947	7362.387	7095.214	6795.138	6446.366	6112.071	5769.879	5423.739	5169.727
10.0	7691.417	7529.534	7355.806	6974.131	6517.436	5930.446	5225.005	4556.415	4033.914	3785.167
12.5	7794.075	7579.547	7366.335	6853.048	6188.406	5190.785	4172.107	3656.187	3481.143	3432.446
15.0	7919.106	7657.198	7397.922	6737.229	5755.402	4347.151	3615.387	3457.453	3408.756	3386.382
17.5	8073.093	7762.488	7453.199	6613.513	5196.050	3774.638	3495.620	3423.233	3385.066	3369.272
20.0	8246.821	7900.681	7533.483	6483.217	4581.421	3556.162	3457.453	3404.808	3361.376	3329.789
22.5	8438.975	8055.983	7621.663	6327.915	4085.243	3502.201	3429.814	3367.956	3307.415	3250.821
25.0	8627.180	8206.021	7700.630	6125.232	3781.219	3474.562	3385.066	3294.254	3217.918	3154.745
27.5	8819.334	8365.272	7774.333	5872.537	3635.129	3441.659	3310.047	3210.022	3129.738	3054.719

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CANDELA TABULATION - (Cont.)

30.0	9008.855	8528.471	7857.249	5588.254	3569.323	3387.698	3223.183	3108.680	3029.713	2962.591
32.5	9176.003	8669.296	7930.952	5282.914	3517.994	3313.995	3131.054	3003.391	2933.636	2879.675
35.0	9295.770	8758.792	7977.016	4980.206	3452.188	3224.499	3036.294	2895.469	2837.559	2782.282
37.5	9329.989	8774.586	7977.016	4715.665	3375.853	3125.790	2941.533	2791.495	2736.218	2676.992
40.0	9366.841	8793.011	7966.487	4511.666	3303.466	3031.029	2853.353	2698.050	2638.825	2566.438
42.5	9414.221	8795.644	7957.274	4348.467	3249.505	2946.797	2763.856	2615.135	2523.006	2449.303
45.0	9690.607	9029.913	8134.950	4278.713	3194.228	2875.727	2698.050	2541.432	2400.607	2329.536
47.5	10638.215	9806.425	8858.818	4634.066	3286.357	2834.927	2655.934	2503.264	2321.639	2262.414
50.0	11162.031	10344.719	9348.415	5169.727	3793.064	2965.223	2655.934	2533.535	2370.336	2424.297
52.5	10881.697	10093.340	9095.720	4886.761	3983.901	3419.285	2734.902	2574.335	2590.128	2942.849
55.0	11175.192	10421.054	9515.562	4967.045	3516.678	3265.299	3031.029	2588.812	2844.140	3525.891
57.5	11725.331	11048.845	10324.978	5817.259	3442.975	2832.295	2762.540	2620.399	2967.855	3825.967
60.0	12530.798	11779.292	11387.088	7136.014	3511.414	2663.831	2407.187	2391.394	2915.210	3669.348
62.5	13515.257	12640.036	12392.605	8506.097	3718.045	2540.116	2213.717	2207.137	2766.489	3274.512
65.0	14503.665	13152.008	12790.074	9190.480	4152.365	2436.142	2045.254	2057.099	2587.496	2880.991
67.5	14873.495	13309.942	12974.331	9443.176	4660.388	2311.110	1872.842	1889.951	2351.910	2469.045
70.0	14743.199	13378.381	13253.349	9327.357	5138.141	2163.705	1668.843	1679.372	2064.996	2150.543
72.5	13346.794	12380.760	12380.760	8882.508	5463.223	2036.041	1442.470	1454.315	1774.133	1810.984
75.0	9064.133	8328.420	8440.291	7304.477	5432.952	1939.964	1214.781	1231.890	1481.953	1427.992
77.5	5597.467	5027.586	5090.760	5872.537	5114.450	1845.203	976.563	993.672	1170.033	825.209
80.0	4294.506	3720.677	3852.289	4598.530	4588.001	1724.120	719.919	742.293	844.950	396.153
82.5	2011.035	1825.461	2038.673	2773.069	3624.600	1516.173	389.572	476.436	475.120	250.063
85.0	272.437	259.276	357.985	948.924	2078.157	981.827	171.096	190.838	151.354	118.451
87.5	31.587	27.639	31.587	65.806	538.294	339.559	36.851	39.484	30.271	23.690
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

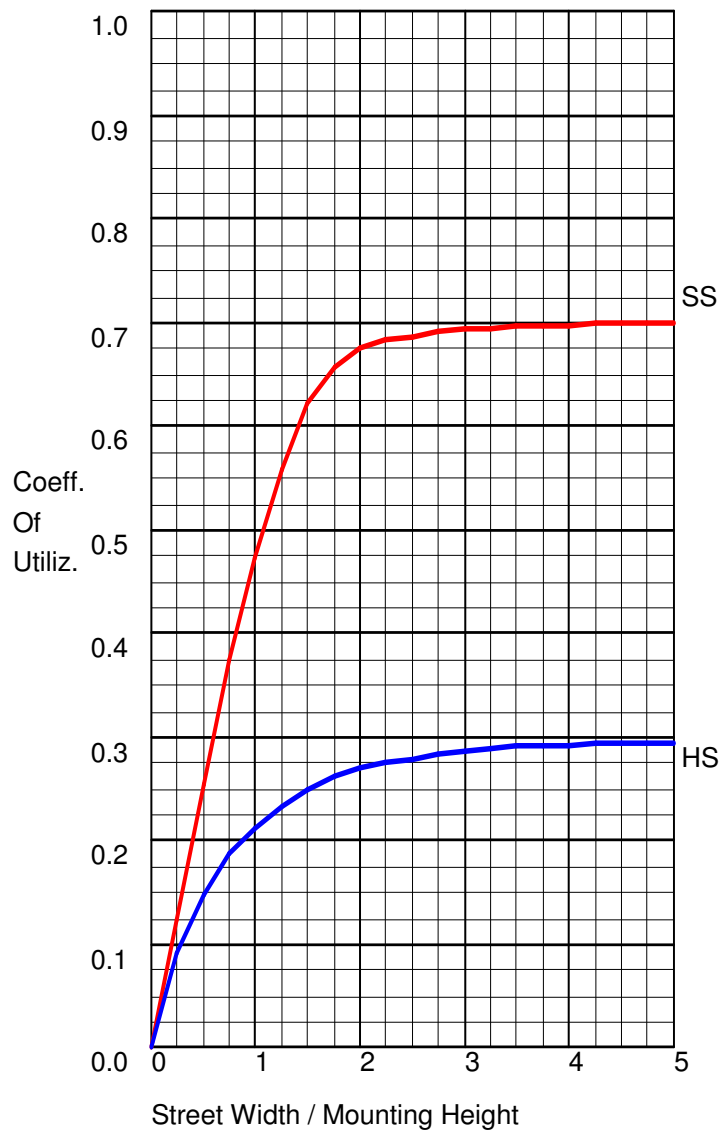
	<u>175.0</u>	<u>180.0</u>
0.0	7426.877	7426.877
2.5	7012.298	7017.563
5.0	6297.644	6305.541
7.5	5057.857	5059.173
10.0	3702.251	3695.671
12.5	3417.969	3411.388
15.0	3379.801	3378.485
17.5	3362.692	3360.060
20.0	3319.260	3313.995
22.5	3232.396	3224.499
25.0	3123.158	3125.790
27.5	3008.655	3011.287
30.0	2909.946	2911.262
32.5	2816.501	2816.501
35.0	2724.373	2723.057
37.5	2632.244	2621.715
40.0	2520.374	2509.845
42.5	2394.026	2384.813
45.0	2284.788	2279.523
47.5	2225.562	2225.562
50.0	2442.723	2474.309
52.5	3095.519	3146.848
55.0	3835.180	3894.405
57.5	4314.248	4422.170
60.0	4036.546	4052.340
62.5	3408.756	3367.956
65.0	2827.030	2830.979

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CANDELA TABULATION - (Cont.)

67.5	2279.523	2258.465
70.0	1900.480	1887.319
72.5	1566.185	1549.076
75.0	1076.588	1068.691
77.5	598.836	594.887
80.0	400.101	389.572
82.5	255.328	255.328
85.0	94.761	78.967
87.5	10.529	3.948
90.0	0.000	0.000

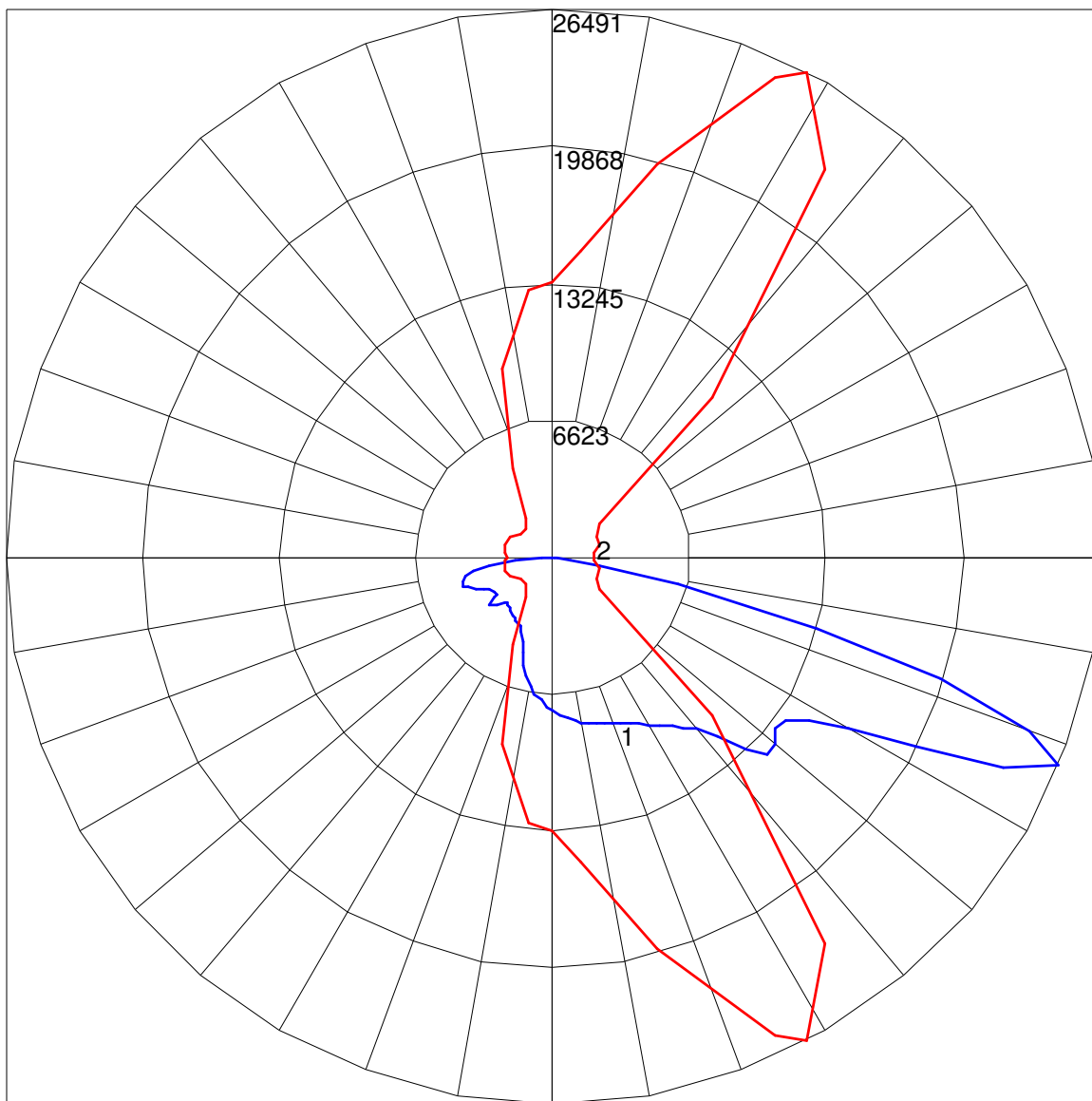
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

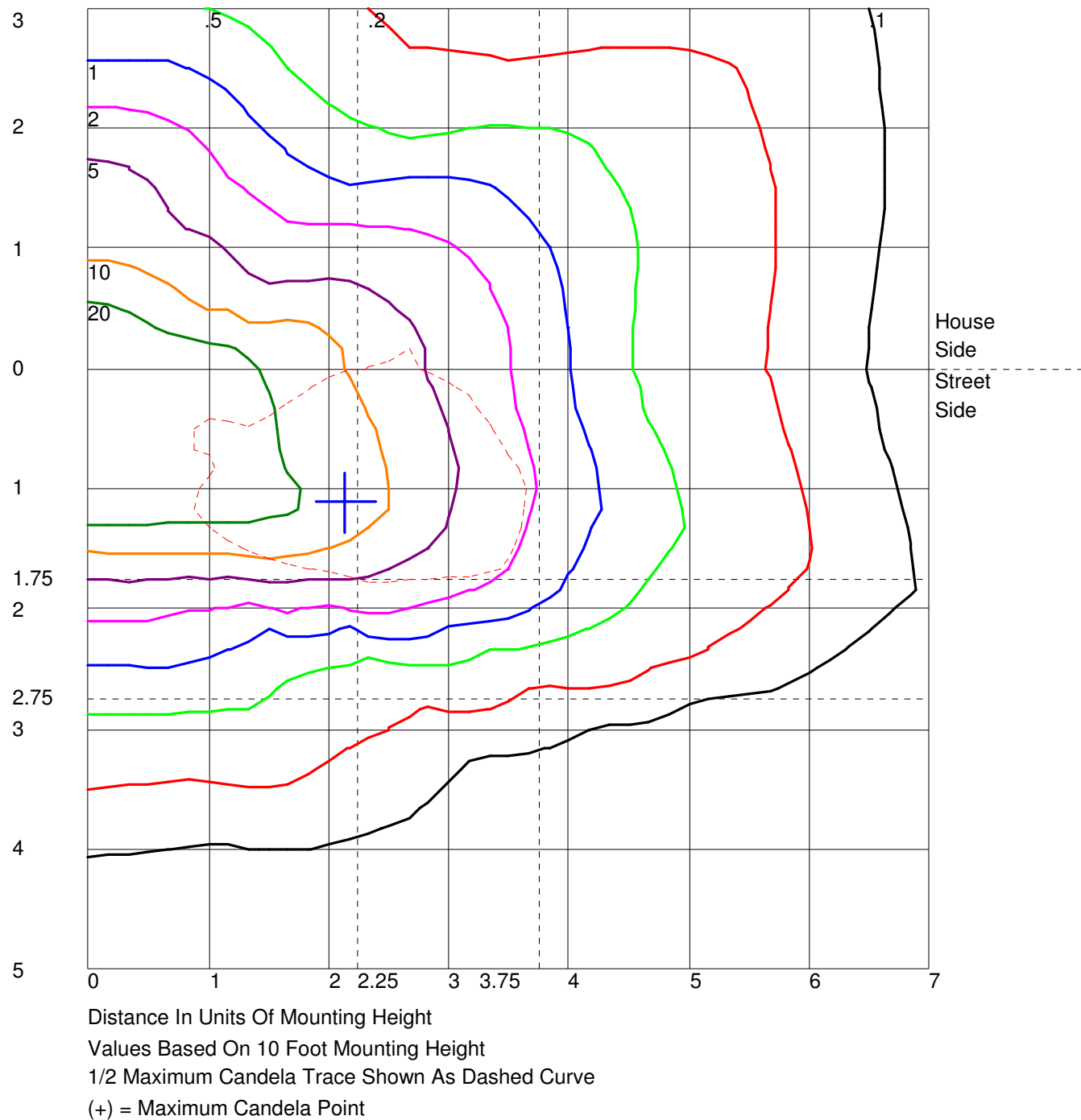
	Lumens	Percent Of Luminaire
Downward Street Side	25160.8	70.2
Downward House Side	10699.7	29.8
Downward Total	35860.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	35860.5	100.0

POLAR GRAPH

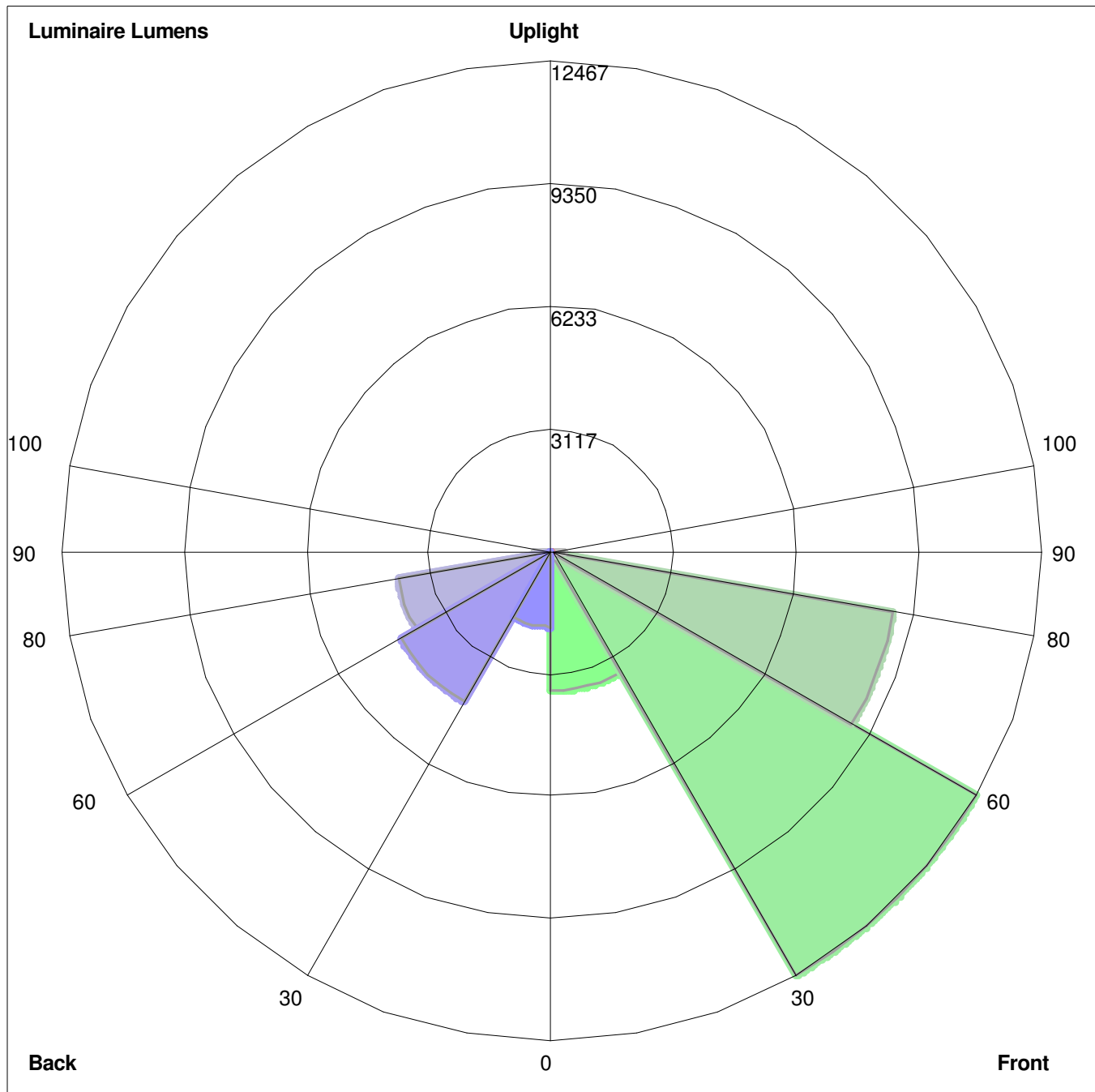


Maximum Candela = 26490.905 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3564.4, Medium=12466.8, High=8833.9, Very High=295.6
Back: Low=1919.1, Medium=4418.9, High=3956.4, Very High=405.3
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4