



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-750-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L380-750-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	40589
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	29984.199
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	29984.199
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	6961.256 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-750-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4034.5	N.A.	9.9
FM - Front-Medium (30-60)	14110.8	N.A.	34.8
FH - Front-High (60-80)	9998.8	N.A.	24.6
FVH - Front-Very High (80-90)	334.6	N.A.	0.8
BL - Back-Low (0-30)	2172.2	N.A.	5.4
BM - Back-Medium (30-60)	5001.6	N.A.	12.3
BH - Back-High (60-80)	4478.2	N.A.	11.0
BVH - Back-Very High (80-90)	458.7	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	40589.4	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	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242
2.5	8741.419	8726.522	8726.522	8741.419	8699.708	8663.956	8659.487	8631.183	8607.348	8558.189
5.0	9097.451	9104.900	9097.451	9085.534	9031.906	8973.808	8942.525	8850.165	8820.372	8696.728
7.5	9157.038	9171.935	9170.445	9180.873	9182.363	9174.914	9160.018	9054.251	9025.947	8842.717
10.0	9100.431	9103.410	9100.431	9121.286	9157.038	9213.646	9267.274	9219.605	9200.239	9003.602
12.5	9082.555	9082.555	9063.189	9079.575	9122.776	9197.260	9295.578	9322.392	9329.841	9168.956
15.0	9160.018	9145.121	9112.348	9095.962	9130.224	9207.687	9316.434	9399.856	9417.732	9344.738
17.5	9308.985	9311.965	9268.764	9218.115	9210.667	9268.764	9377.510	9495.195	9513.071	9527.968
20.0	9510.092	9519.030	9480.298	9422.201	9396.876	9402.835	9502.643	9635.224	9662.039	9738.012
22.5	9670.977	9699.280	9670.977	9656.080	9639.693	9636.714	9712.688	9824.413	9866.124	9954.015
25.0	9806.537	9809.516	9799.089	9834.841	9903.366	9922.732	9974.870	10044.885	10095.534	10162.570
27.5	9937.629	9913.794	9879.531	9945.077	10120.859	10250.461	10281.744	10302.599	10324.944	10363.676
30.0	10052.334	10034.458	9991.257	9995.726	10231.095	10588.617	10651.183	10613.941	10593.086	10576.700
32.5	10068.720	10055.313	10071.699	10117.879	10313.027	10905.918	11066.803	10934.222	10899.959	10759.930
35.0	10041.906	10038.927	10098.514	10245.992	10570.741	11202.364	11536.051	11349.841	11244.074	10938.691
37.5	9979.340	9971.891	10074.679	10423.263	11011.685	11591.169	12067.865	11799.724	11619.473	11059.355
40.0	9863.145	9889.959	10050.844	10740.564	11994.871	12827.600	12791.848	12283.868	12054.458	11190.446
42.5	9811.006	9842.289	9991.257	10676.508	12255.564	14098.294	14305.359	13274.503	12823.131	11399.001
45.0	10278.764	10286.213	10214.708	10663.101	12032.113	14044.665	15498.589	14922.084	14426.022	12051.479
47.5	11278.337	11263.440	11205.343	11303.661	12081.272	13658.839	15622.232	15975.285	15800.993	13654.370
50.0	11233.647	11202.364	11539.030	12188.529	12794.827	13563.500	15106.804	15932.085	15881.436	14400.698
52.5	10417.304	10436.670	11092.127	12218.323	13658.839	14277.055	14837.173	15380.905	15424.105	14086.376
55.0	8214.073	8319.840	9684.384	11947.202	14336.642	16170.433	15640.108	15565.625	15647.557	14385.801
57.5	6055.533	6176.197	7564.575	10636.287	14536.258	18722.248	17871.643	16697.778	16603.929	15068.073
60.0	4780.370	4859.323	5686.093	7723.970	13159.798	20858.443	22360.037	18805.670	18461.555	16295.566
62.5	3703.335	3679.500	4110.016	5045.533	9967.422	20082.322	27569.434	22485.170	21437.927	18174.047
65.0	2603.954	2627.788	2879.544	3316.019	5931.890	17926.761	28516.868	27329.596	25646.262	20575.405
67.5	2247.921	2261.328	2563.732	2684.396	3134.278	12321.110	25923.342	229984.199	28960.791	22293.001
70.0	1793.570	1751.859	2157.051	2343.260	2316.446	5508.822	21369.402	27865.879	28604.759	22979.742
72.5	1275.163	1230.472	1385.399	1973.821	1781.652	2858.688	13697.571	22300.450	23785.657	21491.556
75.0	972.758	960.841	987.655	1509.042	1431.579	1735.473	5936.359	14939.961	16459.430	15345.152
77.5	650.988	645.030	670.354	995.104	1199.189	1158.968	2413.275	7010.415	8579.044	9997.216
80.0	408.171	396.254	433.496	619.705	1033.835	744.838	1170.885	2586.078	4069.795	6961.256
82.5	213.024	214.513	239.838	360.502	706.106	418.599	594.381	942.965	1386.888	3537.980
85.0	83.422	83.422	96.829	156.416	253.245	166.844	226.431	300.915	391.785	811.873
87.5	10.428	11.917	14.897	23.835	32.773	23.835	37.242	37.242	49.159	53.628
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	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242	8406.242
2.5	8482.215	8474.767	8422.628	8345.165	8251.315	8148.528	8091.920	8027.864	7926.566	7901.241
5.0	8531.374	8465.829	8364.531	8179.811	7977.215	7747.805	7576.492	7409.648	7259.191	7165.342
7.5	8605.858	8486.684	8333.248	8030.843	7691.197	7296.433	6918.055	6530.740	6138.955	5851.447
10.0	8705.667	8522.436	8325.799	7893.793	7376.876	6712.480	5914.014	5157.258	4565.857	4284.308
12.5	8821.861	8579.044	8337.717	7756.743	7004.457	5875.282	4722.273	4138.320	3940.193	3885.075
15.0	8963.380	8666.935	8373.469	7625.651	6514.353	4920.400	4092.140	3913.379	3858.261	3832.936
17.5	9137.673	8786.109	8436.035	7485.622	5881.241	4272.391	3956.579	3874.647	3831.447	3813.571
20.0	9334.310	8942.525	8526.905	7338.144	5185.562	4025.105	3913.379	3853.792	3804.633	3768.880
22.5	9551.803	9118.307	8626.714	7162.362	4623.954	3964.028	3882.096	3812.081	3743.556	3679.500
25.0	9764.826	9288.130	8716.094	6932.952	4279.839	3932.745	3831.447	3728.659	3642.258	3570.753
27.5	9982.319	9468.381	8799.516	6646.934	4114.485	3895.503	3746.535	3633.320	3542.450	3457.538

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CANDELA TABULATION - (Cont.)

30.0	10196.8329653.100	8893.366	6325.164	4040.001	3834.426	3648.217	3518.615	3429.234	3353.261
32.5	10386.0219812.496	8976.788	5979.559	3981.904	3751.004	3543.939	3399.441	3320.488	3259.411
35.0	10521.5829913.794	9028.926	5636.934	3907.420	3649.706	3436.683	3277.287	3211.741	3149.175
37.5	10560.3139931.670	9028.926	5337.509	3821.019	3537.980	3329.426	3159.603	3097.036	3030.001
40.0	10602.0249952.525	9017.009	5106.609	3739.087	3430.724	3229.618	3053.836	2986.800	2904.868
42.5	10655.6529955.505	9006.581	4921.889	3678.010	3335.385	3128.320	2959.986	2855.709	2772.287
45.0	10968.48410220.6679207.687	4842.937	3615.444	3254.942	3053.836	2876.564	2717.169	2636.727	
47.5	12041.05111099.57610027.0095245.149	3719.721	3208.762	3006.166	2833.364	2627.788	2560.753		
50.0	12633.94211708.85310581.1695851.447	4293.246	3356.240	3006.166	2867.626	2682.906	2743.983		
52.5	12316.64111424.32510295.1515531.167	4509.249	3870.178	3095.547	2913.806	2931.682	3330.916		
55.0	12648.83911795.25510770.3575622.037	3980.414	3695.886	3430.724	2930.193	3219.190	3990.842		
57.5	13271.52312505.83011686.5086584.368	3896.992	3205.783	3126.830	2965.945	3359.219	4330.488		
60.0	14183.20513332.60012888.6778077.023	3974.456	3015.104	2724.617	2706.741	3299.632	4153.217		
62.5	15297.48314306.84814026.7899627.776	4208.335	2875.075	2505.635	2498.187	3131.299	3706.314		
65.0	16416.23014886.33214476.67110402.4074699.928	2757.390	2314.957	2328.364	2928.703	3260.901			
67.5	16834.82815065.09314685.22610688.4255274.943	2615.871	2119.809	2139.175	2662.051	2794.632			
70.0	16687.35115142.55715001.03710557.3345815.695	2449.027	1888.909	1900.827	2337.302	2434.131			
72.5	15106.80414013.38214013.38210053.8236183.645	2304.529	1632.685	1646.092	2008.083	2049.794			
75.0	10259.3999426.670	9553.292	8267.702	6149.383	2195.782	1374.971	1394.337	1677.375	1616.298
77.5	6335.592	5690.562	5762.067	6646.934	5788.881	2088.526	1105.340	1124.705	1324.322
80.0	4860.813	4211.314	4360.282	5204.928	5193.011	1951.476	814.853	840.177	956.372
82.5	2276.225	2066.181	2307.508	3138.747	4102.568	1716.107	440.944	539.263	537.773
85.0	308.363	293.466	405.192	1074.056	2352.198	1111.298	193.658	216.003	171.313
87.5	35.752	31.283	35.752	74.484	609.277	384.336	41.711	44.690	34.263
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

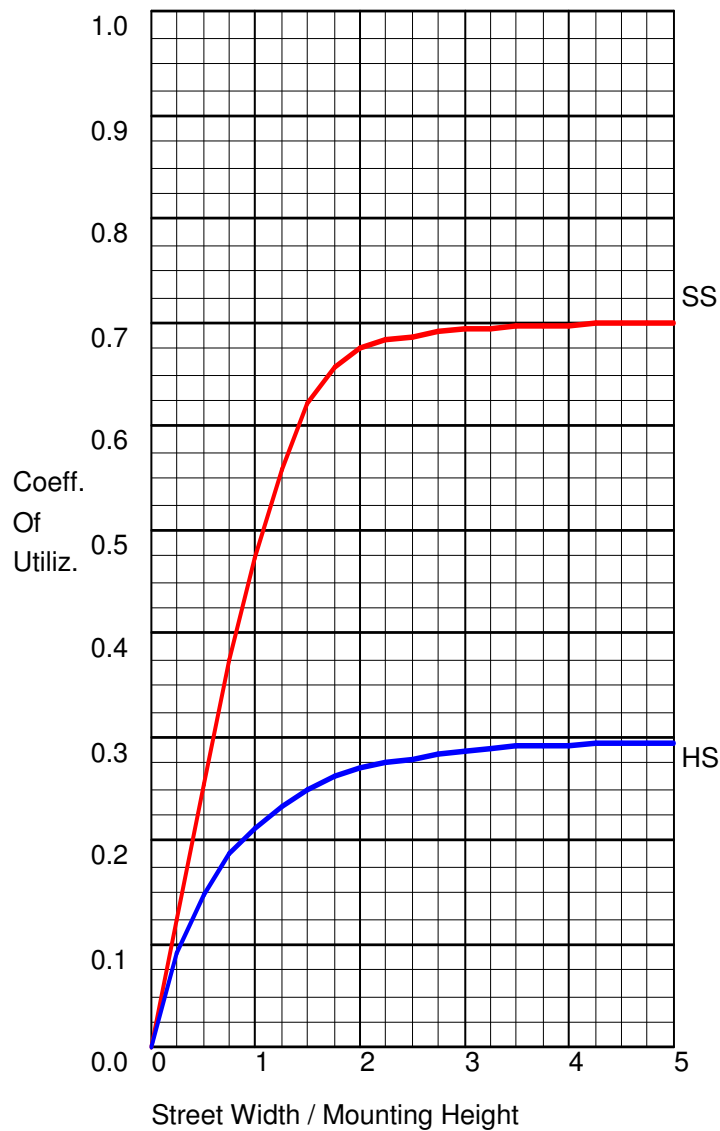
Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	8406.242	8406.242
2.5	7936.994	7942.952
5.0	7128.100	7137.038
7.5	5724.825	5726.315
10.0	4190.459	4183.010
12.5	3868.689	3861.240
15.0	3825.488	3823.998
17.5	3806.122	3803.143
20.0	3756.963	3751.004
22.5	3658.644	3649.706
25.0	3535.001	3537.980
27.5	3405.399	3408.379
30.0	3293.674	3295.163
32.5	3187.907	3187.907
35.0	3083.629	3082.140
37.5	2979.352	2967.435
40.0	2852.730	2840.812
42.5	2709.721	2699.293
45.0	2586.078	2580.119
47.5	2519.042	2519.042
50.0	2764.839	2800.591
52.5	3503.718	3561.815
55.0	4340.916	4407.951
57.5	4883.158	5005.311
60.0	4568.836	4586.712
62.5	3858.261	3812.081
65.0	3199.824	3204.293

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-750-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	2580.119	2556.284
70.0	2151.092	2136.195
72.5	1772.714	1753.349
75.0	1218.555	1209.617
77.5	677.803	673.334
80.0	452.862	440.944
82.5	288.997	288.997
85.0	107.257	89.381
87.5	11.917	4.469
90.0	0.000	0.000

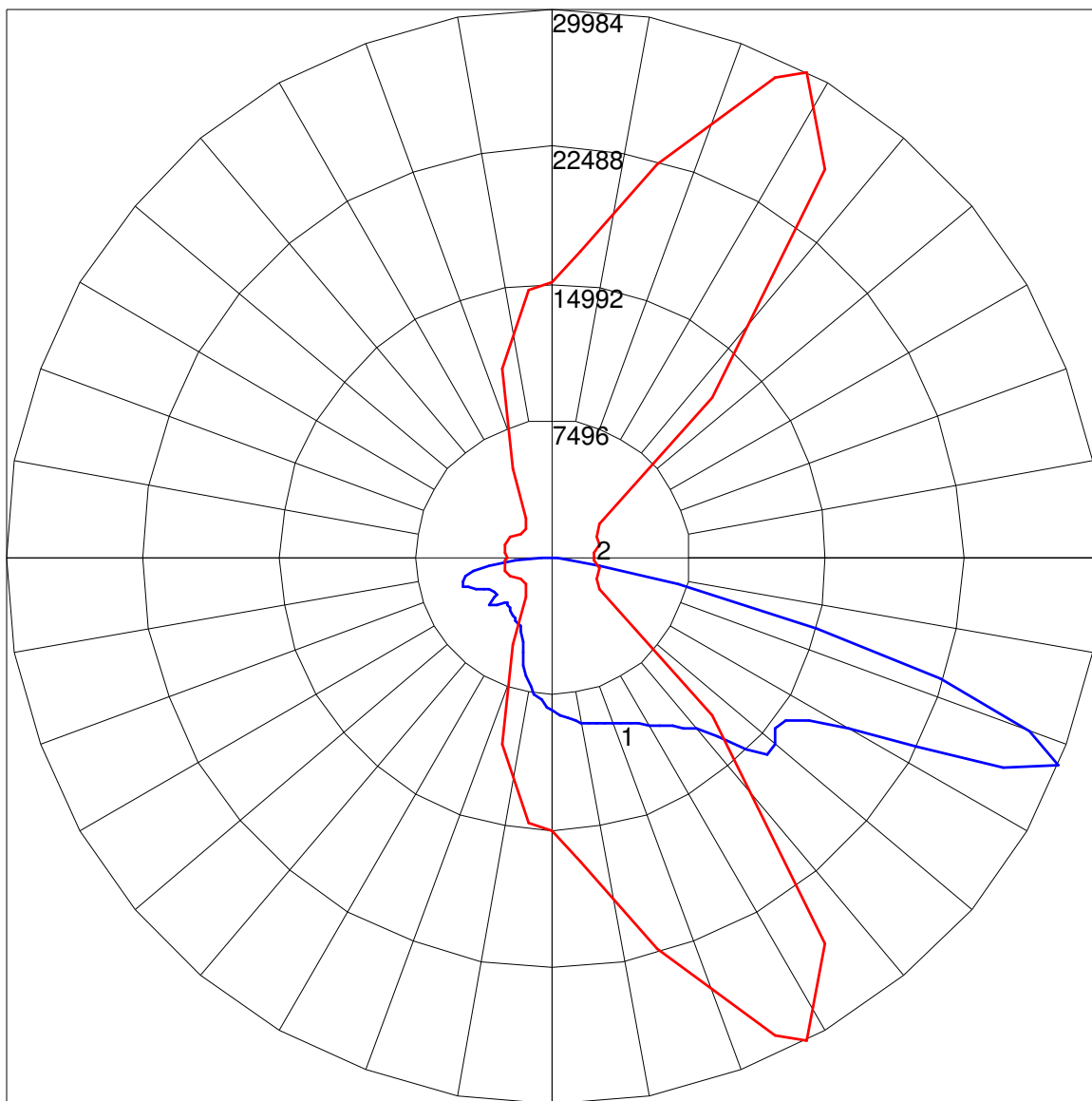
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

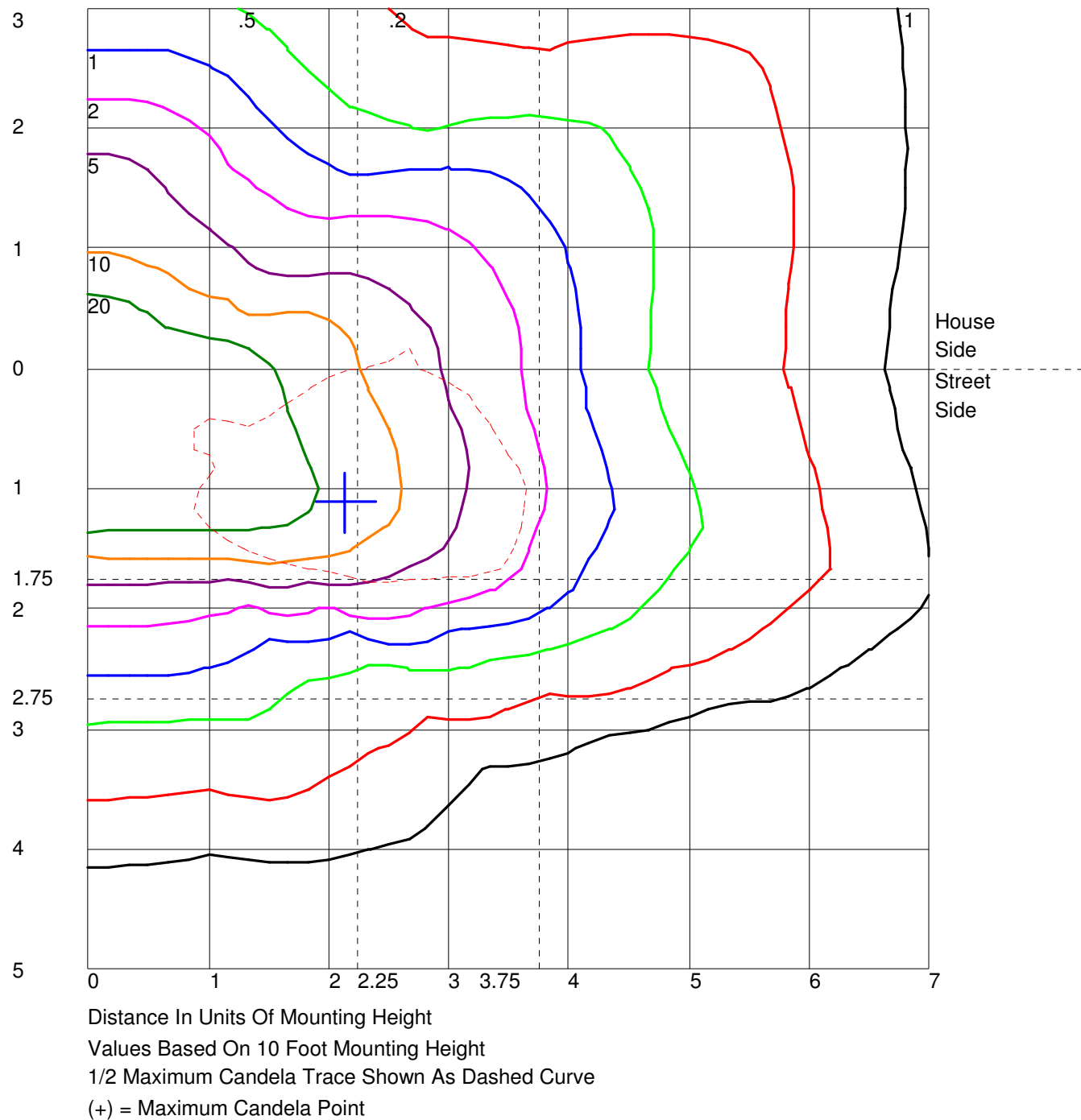
	Lumens	Percent Of Luminaire
Downward Street Side	28478.7	70.2
Downward House Side	12110.7	29.8
Downward Total	40589.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	40589.4	100.0

POLAR GRAPH

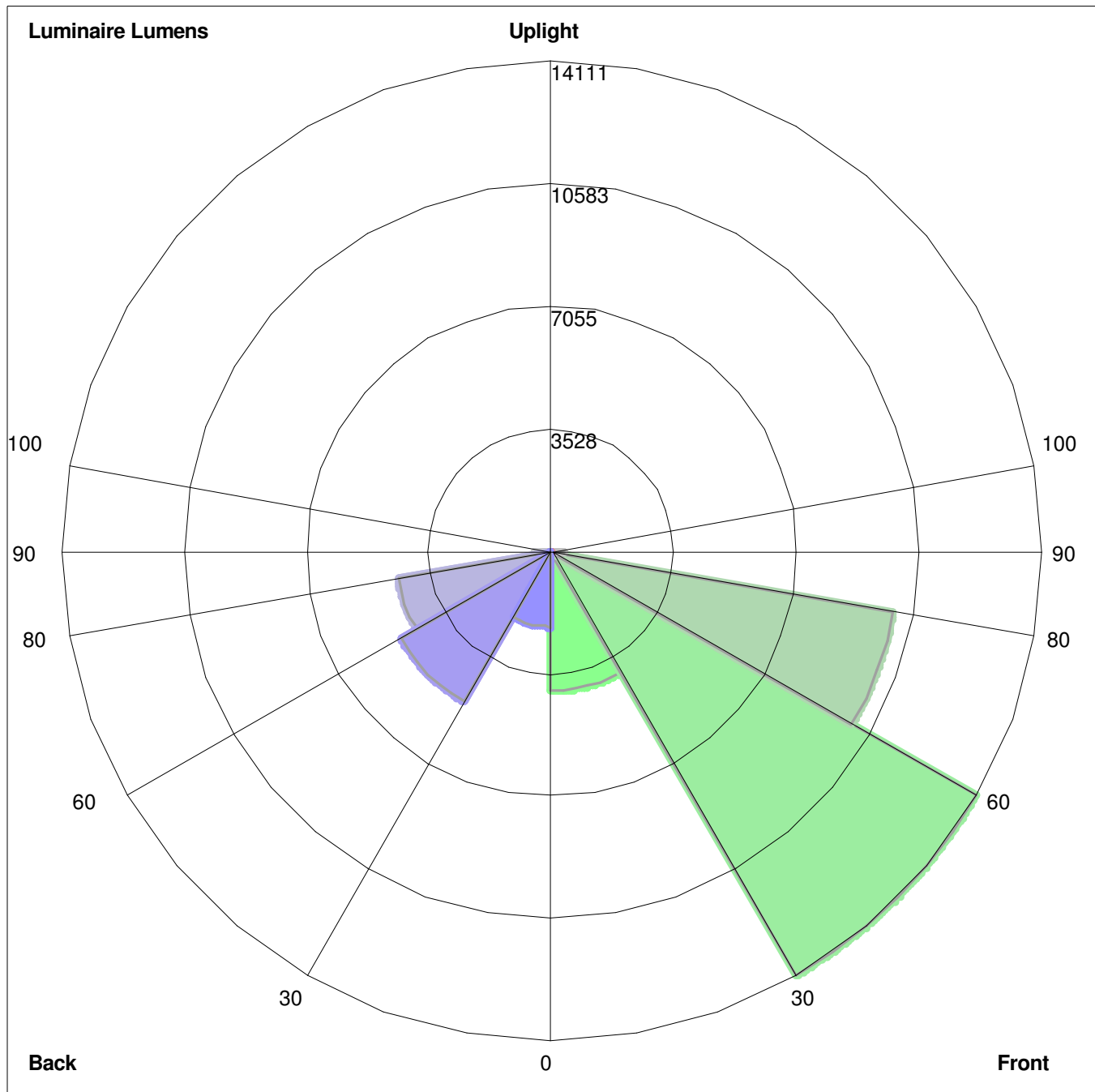


Maximum Candela = 29984.199 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=4034.5, Medium=14110.8, High=9998.8, Very High=334.6
Back: Low=2172.2, Medium=5001.6, High=4478.2, Very High=458.7
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4