



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-750-T4-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011773  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L380-750-T4-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT FIXTURE  
[MORE] WITH TYPE IV OPTICS, CLEAR LENS, (2) LED MODULES  
[MORE] AND (2) ELECTRONIC DRIVERS  
[LAMP] LED  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor, Area, Parking  
[ \_SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	39607
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	37731.109
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	37731.109
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2670.873 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L380-750-T4-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3025.7	N.A.	7.6
FM - Front-Medium (30-60)	12194.1	N.A.	30.8
FH - Front-High (60-80)	14193.1	N.A.	35.8
FVH - Front-Very High (80-90)	249.5	N.A.	0.6
BL - Back-Low (0-30)	2007.4	N.A.	5.1
BM - Back-Medium (30-60)	4784.8	N.A.	12.1
BH - Back-High (60-80)	2965.5	N.A.	7.5
BVH - Back-Very High (80-90)	187.0	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	39607.1	N.A.	100.0
BUG Rating	B4-U0-G5		

**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : VA2-L380-750-T4-F-S-XXX-DIM-UNV\_.IES**

**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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236
2.5	6686.467	6672.540	6691.109	6661.708	6598.263	6587.431	6558.030	6516.249	6434.235	6367.695
5.0	7235.806	7241.996	7252.828	7203.310	7119.749	7009.881	6982.027	6838.115	6644.686	6449.709
7.5	7543.746	7554.578	7562.315	7551.483	7466.374	7362.696	7325.558	7110.464	6836.568	6541.008
10.0	7611.833	7627.307	7635.045	7653.614	7630.402	7537.556	7508.155	7282.229	7003.691	6635.401
12.5	7594.811	7607.191	7604.096	7636.592	7650.519	7571.600	7545.293	7365.791	7130.581	6728.248
15.0	7551.483	7556.125	7540.651	7573.147	7610.286	7543.746	7515.892	7407.572	7228.069	6838.115
17.5	7498.870	7494.228	7477.206	7506.607	7528.271	7492.680	7478.754	7446.257	7320.915	6934.056
20.0	7387.455	7379.718	7395.192	7444.710	7447.805	7423.046	7421.498	7477.206	7322.463	6985.122
22.5	7234.259	7229.617	7334.842	7389.002	7359.601	7353.411	7371.981	7409.119	7303.893	7056.304
25.0	7122.844	7133.676	7324.010	7308.536	7280.682	7319.368	7351.864	7342.579	7330.200	7144.508
27.5	7115.106	7155.340	7305.441	7274.492	7265.208	7341.032	7379.718	7362.696	7393.645	7269.850
30.0	7246.638	7259.018	7313.178	7306.988	7354.959	7430.783	7461.732	7486.491	7520.534	7446.257
32.5	7443.163	7393.645	7419.951	7495.775	7560.768	7604.096	7633.497	7693.847	7717.059	7664.446
35.0	7704.679	7625.760	7627.307	7808.357	7836.211	7862.517	7867.160	7953.816	7953.816	7932.152
37.5	8134.866	8076.064	8029.640	8192.121	8235.449	8212.238	8184.384	8215.333	8206.048	8213.785
40.0	8690.395	8636.235	8571.243	8691.943	8766.220	8653.257	8614.571	8461.375	8473.754	8535.652
42.5	9270.683	9214.976	9188.669	9317.106	9426.974	9210.333	9112.845	8750.745	8784.789	8886.919
45.0	9959.292	9936.080	9923.701	10053.685	10172.838	9897.395	9750.388	9303.179	9176.290	9315.559
47.5	10782.527	10720.630	10753.126	10958.935	10884.658	10700.513	10559.697	10062.970	9720.987	9838.592
50.0	11641.354	11550.055	11563.982	11887.396	11700.156	11579.456	11472.683	11037.854	10469.946	10459.113
52.5	12788.003	12763.244	12458.400	12709.084	12585.289	12526.487	12506.370	12261.875	11401.501	111139.985
55.0	14728.487	14482.445	13837.164	13666.946	13575.648	13677.778	13818.595	13609.691	12475.421	11966.315
57.5	16701.466	16682.897	15853.472	15020.952	14654.210	15138.557	15488.277	14934.296	13614.334	12789.551
60.0	17676.351	17679.445	17732.058	16815.977	15947.866	16981.552	17594.336	16436.855	14648.020	13345.080
62.5	18493.396	18679.088	19189.742	18974.649	17753.722	19584.338	20559.222	18050.830	15225.213	13461.137
65.0	19599.812	19917.036	21560.412	21546.486	20342.581	23853.711	25008.098	19898.467	14790.384	13015.476
67.5	18624.928	18999.407	22973.221	25264.972	24090.469	30040.357	31035.357	20977.029	13133.081	11870.374
70.0	15084.397	15160.221	20850.140	27756.342	27790.386	36056.784	36327.585	18680.636	10182.123	9044.758
72.0	10991.431	11178.671	16908.823	26160.937	27782.649	37731.109	37096.660	13052.615	7200.215	5267.469
72.5	9662.184	9849.424	15588.861	25281.994	27307.586	37378.294	36719.086	11378.290	6468.278	4380.789
75.0	3791.216	3733.961	6831.926	15706.466	20362.698	28731.226	22850.973	4574.218	3853.113	2027.140
77.5	2461.969	2396.977	2191.168	4493.751	7650.519	9038.568	4600.524	1824.426	2115.344	1299.845
80.0	1600.048	1793.477	1330.794	2039.519	2670.873	2217.474	1573.741	1039.876	1225.569	855.732
82.5	813.951	979.526	783.002	1022.855	1118.796	875.848	846.447	595.762	642.186	481.252
85.0	343.531	458.041	320.319	388.406	428.640	315.677	315.677	247.590	266.159	198.072
87.5	85.109	123.795	49.518	49.518	74.277	46.423	38.686	41.781	41.781	30.949
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	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236	6222.236
2.5	6287.229	6229.973	6188.193	6109.274	6014.880	5934.413	5847.757	5798.239	5725.510	5702.298
5.0	6243.900	6129.390	6028.807	5841.567	5657.423	5507.321	5366.505	5287.586	5205.571	5176.170
7.5	6223.784	6059.756	5901.917	5618.737	5368.052	5179.265	5041.543	4971.909	4925.486	4919.296
10.0	6209.857	5993.216	5781.217	5409.833	5122.010	4947.150	4846.567	4837.282	4858.946	4903.822
12.5	6203.667	5929.771	5660.517	5207.119	4913.106	4783.122	4758.363	4820.260	4931.675	5057.018
15.0	6217.594	5880.253	5552.197	5021.427	4735.151	4657.779	4711.940	4851.209	5039.996	5224.141
17.5	6226.879	5833.830	5451.614	4854.304	4586.597	4558.744	4651.590	4837.282	5027.616	5211.761
20.0	6234.616	5788.955	5361.862	4707.297	4464.350	4470.540	4561.839	4708.845	4866.683	5055.470
22.5	6257.827	5756.458	5276.754	4571.123	4363.767	4388.526	4430.307	4516.963	4654.685	4837.282
25.0	6302.703	5745.626	5204.024	4459.708	4284.848	4303.417	4266.278	4320.439	4419.474	4600.524

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PHOTOMETRIC FILENAME : VA2-L380-750-T4-F-S-XXX-DIM-UNV\_.IES

## CANDELA TABULATION - (Cont.)

27.5	6386.264	5761.101	5154.506	4377.694	4226.045	4196.644	4113.082	4130.104	4218.308	4373.051
30.0	6511.607	5813.713	5137.484	4318.891	4181.169	4079.039	3976.908	3969.171	4031.068	4174.980
32.5	6684.919	5903.465	5145.222	4277.110	4148.673	3970.718	3853.113	3817.522	3873.230	4060.470
35.0	6904.655	6027.260	5179.265	4252.352	4116.177	3879.420	3738.603	3672.063	3786.574	4000.120
37.5	7180.099	6189.740	5247.352	4258.541	4060.470	3794.311	3608.619	3582.312	3730.866	3964.529
40.0	7542.198	6431.140	5368.052	4304.964	3995.477	3720.034	3492.561	3531.247	3676.706	3956.791
42.5	7990.955	6773.123	5556.839	4362.219	3950.602	3667.421	3429.116	3475.539	3638.020	3952.149
45.0	8524.820	7200.215	5836.925	4411.737	3932.032	3617.903	3408.999	3418.284	3603.976	3919.653
47.5	9157.721	7757.292	6200.572	4456.613	3925.843	3569.933	3373.408	3362.576	3554.458	3730.866
50.0	9883.468	8435.068	6630.759	4533.985	3932.032	3515.772	3317.701	3302.226	3351.744	3644.210
52.5	10664.922	9128.319	7112.011	4693.370	3964.529	3491.013	3257.351	3229.497	3170.694	3600.881
55.0	11579.456	10214.619	7990.955	4868.231	4003.214	3542.079	3265.088	3097.965	3096.418	3509.583
57.5	12998.454	11834.783	8814.190	5024.522	4162.600	3744.793	3447.685	3158.315	3166.052	3413.642
60.0	14553.627	12704.442	9389.836	5324.724	4346.745	3868.588	3603.976	3316.153	3415.189	3469.349
62.5	14547.437	12736.938	9987.146	5544.460	4345.198	3834.544	3545.174	3266.635	3608.619	3432.211
65.0	13546.246	12207.715	9693.133	5389.716	4318.891	3832.997	3404.357	2960.243	3404.357	3161.410
67.5	10072.255	8801.811	6592.073	4054.280	3953.697	3795.858	3263.541	2664.683	3028.330	2887.514
70.0	4848.114	3857.756	2800.857	2223.664	2813.237	3481.729	3189.264	2396.977	2677.063	2752.887
72.0	2455.779	1934.294	1623.259	1456.136	1796.572	2933.937	3147.483	2150.935	2308.773	2520.772
72.5	2287.109	1742.412	1490.180	1361.743	1609.332	2855.018	3118.082	2085.942	2206.642	2444.947
75.0	1363.290	1146.649	1024.402	988.811	1080.110	1881.681	2683.252	1767.171	1714.558	2000.834
77.5	911.439	775.265	722.652	704.083	775.265	1104.869	2028.687	1513.391	1350.911	1538.150
80.0	606.595	510.654	482.800	484.347	536.960	705.630	1295.203	1169.861	1042.971	1177.598
82.5	343.531	276.991	269.254	287.823	326.509	414.713	697.893	854.184	762.885	880.491
85.0	140.817	106.773	103.678	116.058	143.911	187.240	329.604	410.070	369.837	406.975
87.5	21.664	15.474	13.927	18.569	29.401	41.781	86.656	94.394	86.656	80.467
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

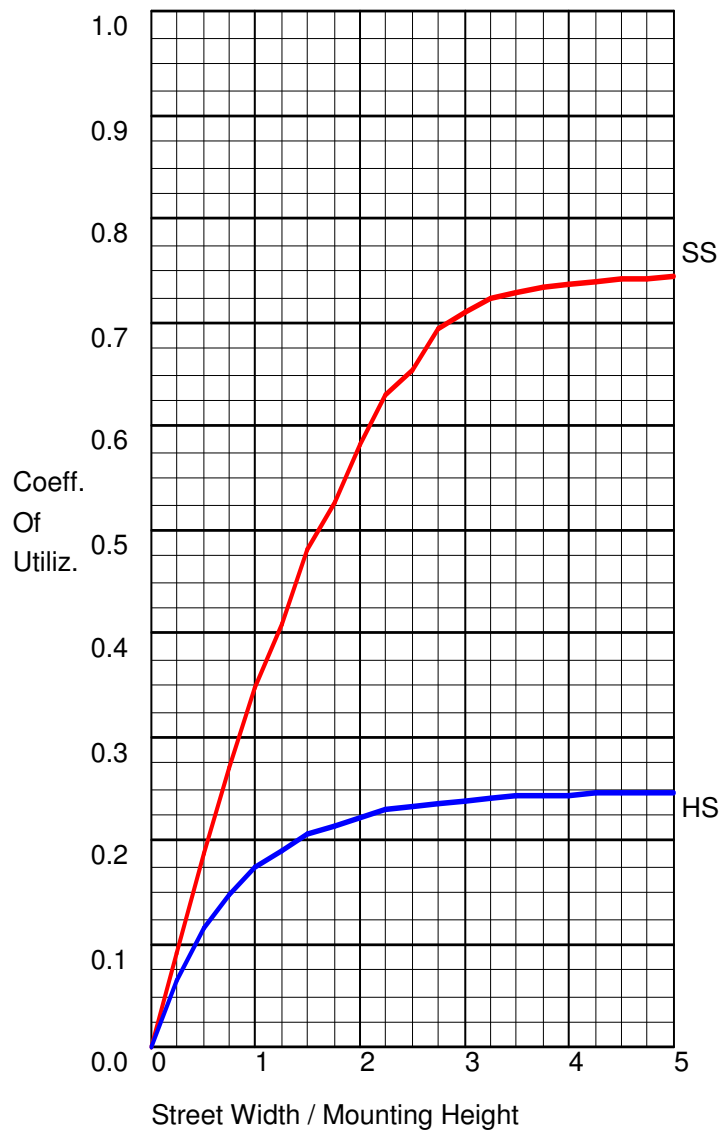
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	6222.236	6222.236
2.5	5686.824	5705.393
5.0	5159.148	5171.528
7.5	4914.654	4917.749
10.0	4930.128	4927.033
12.5	5125.105	5122.010
15.0	5320.082	5321.629
17.5	5312.345	5324.724
20.0	5171.528	5191.645
22.5	4961.077	4988.931
25.0	4735.151	4758.363
27.5	4509.226	4532.437
30.0	4328.176	4348.292
32.5	4238.425	4264.731
35.0	4185.812	4213.666
37.5	4185.812	4204.381
40.0	4210.571	4215.213
42.5	4205.928	4212.118
45.0	4103.798	4100.703
47.5	3984.645	4003.214
50.0	4018.689	4038.805
52.5	4031.068	4041.900
55.0	3952.149	3967.623
57.5	3843.829	3865.493
60.0	3727.771	3747.888

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L380-750-T4-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	3525.057	3551.363
<b>65.0</b>	3238.782	3302.226
<b>67.5</b>	2937.032	3040.710
<b>70.0</b>	2616.713	2757.529
<b>72.0</b>	2372.218	2517.677
<b>72.5</b>	2307.226	2448.042
<b>75.0</b>	1921.914	2039.519
<b>77.5</b>	1600.048	1756.339
<b>80.0</b>	1480.895	1612.427
<b>82.5</b>	823.235	888.228
<b>85.0</b>	290.918	278.538
<b>87.5</b>	38.686	9.285
<b>90.0</b>	0.000	0.000

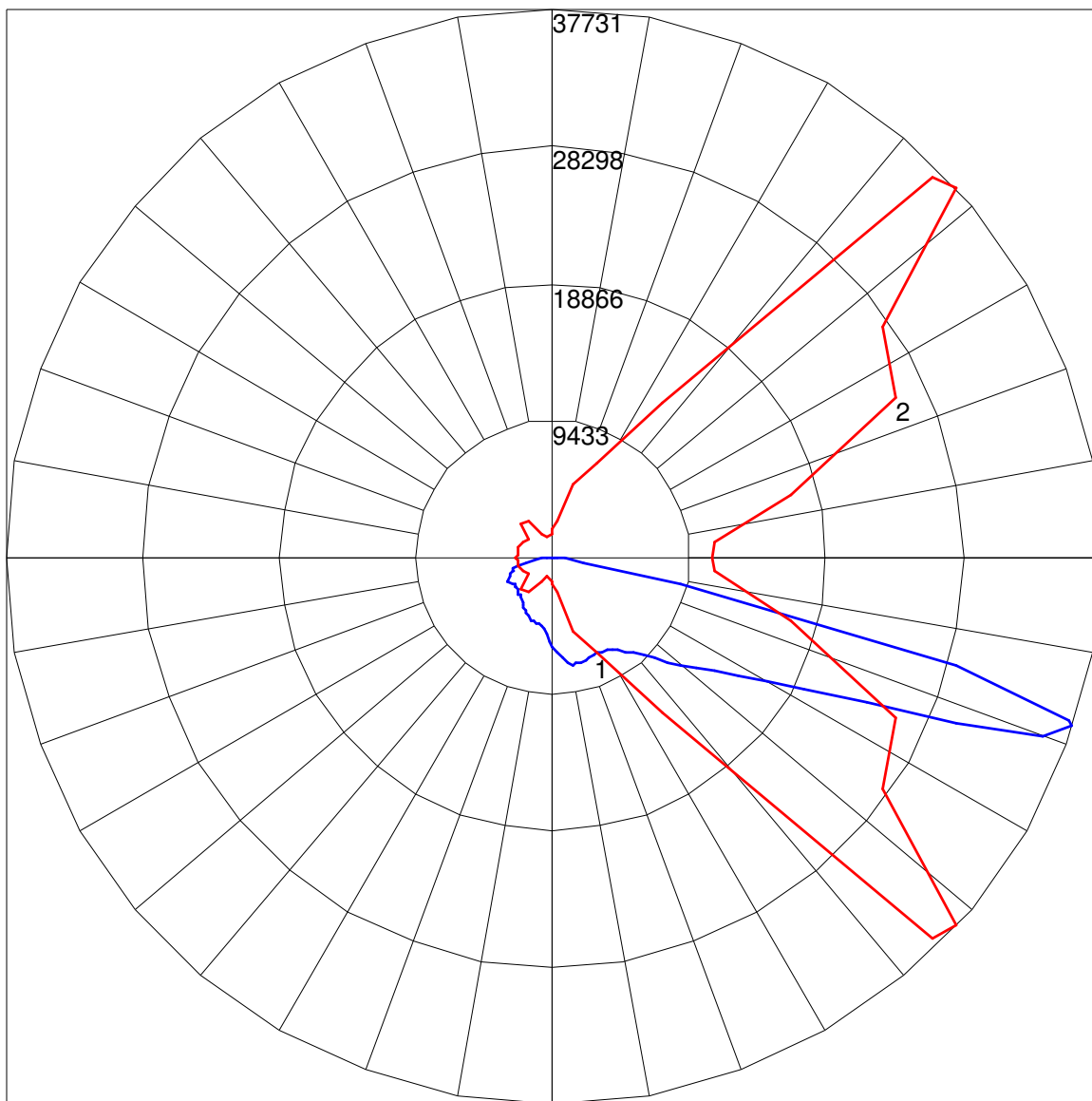
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

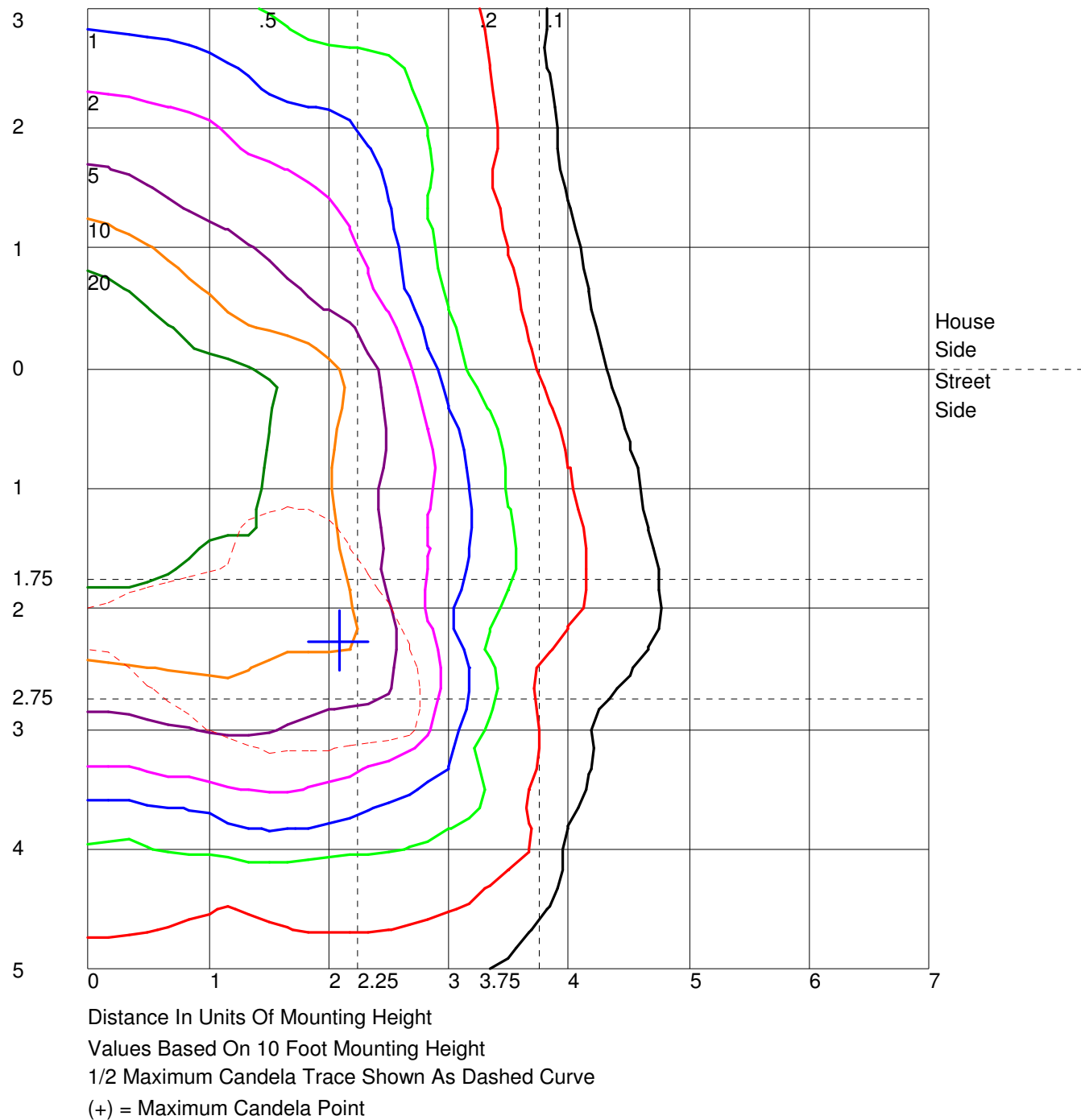
	Lumens	Percent Of Luminaire
Downward Street Side	29662.3	74.9
Downward House Side	9944.8	25.1
Downward Total	39607.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	39607.1	100.0

POLAR GRAPH



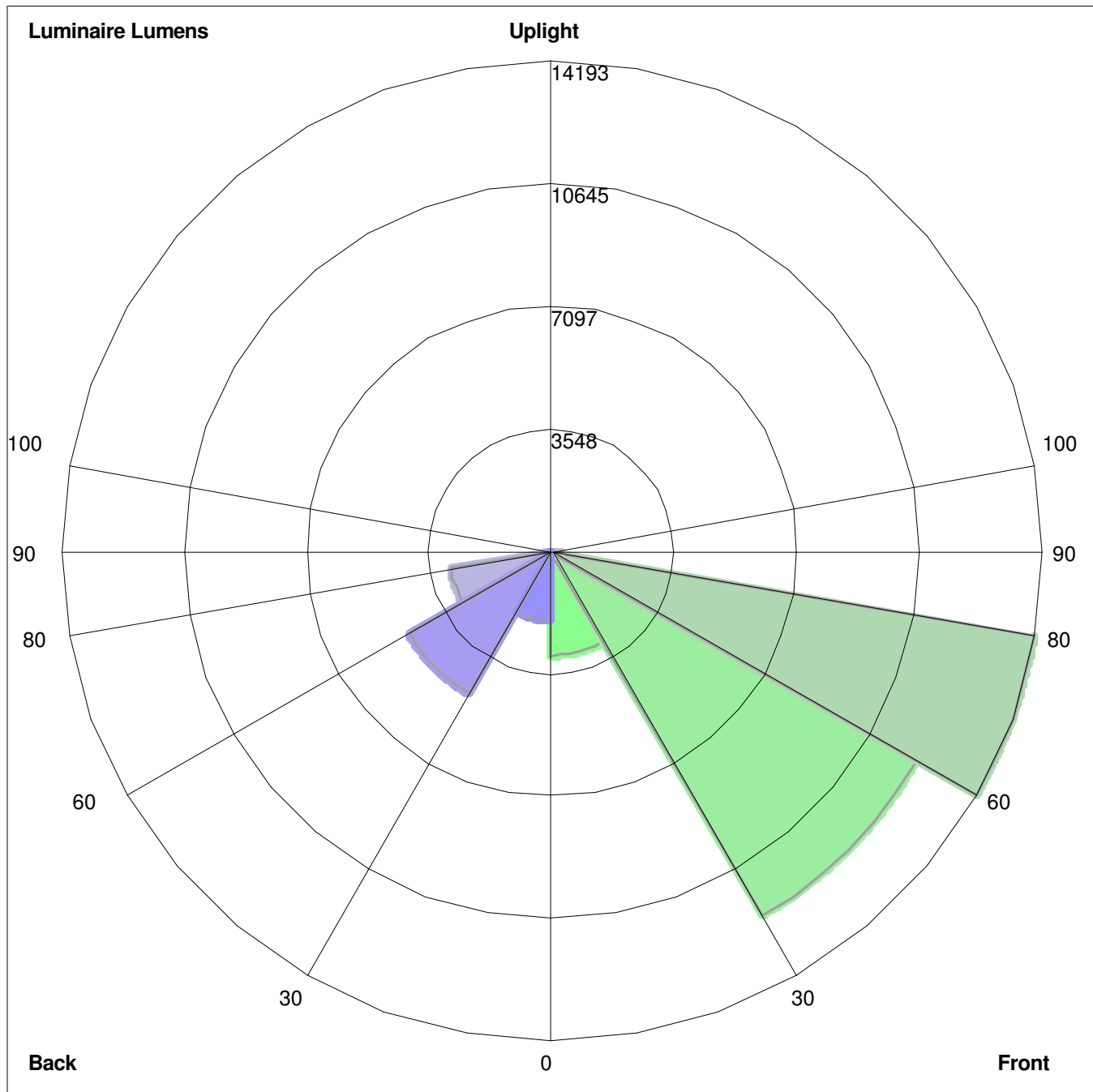
Maximum Candela = 37731.109 Located At Horizontal Angle = 42.5, Vertical Angle = 72  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
 Front: Low=3025.7, Medium=12194.1, High=14193.1, Very High=249.5  
 Back: Low=2007.4, Medium=4784.8, High=2965.5, Very High=187.0  
 Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G5