



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-740-T5-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011774  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L380-740-T5-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT  
[MORE] WITH TYPE V 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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	40756
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19484.802
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	19484.802
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	753.832 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L380-740-T5-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2034.1	N.A.	5.0
FM - Front-Medium (30-60)	9352.0	N.A.	22.9
FH - Front-High (60-80)	8890.9	N.A.	21.8
FVH - Front-Very High (80-90)	101.2	N.A.	0.2
BL - Back-Low (0-30)	2034.1	N.A.	5.0
BM - Back-Medium (30-60)	9352.0	N.A.	22.9
BH - Back-High (60-80)	8890.9	N.A.	21.8
BVH - Back-Very High (80-90)	101.2	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	40756.4	N.A.	100.0
BUG Rating	B5-U0-G4		

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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	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422
2.5	4275.643	4275.643	4278.588	4278.588	4277.116	4275.643	4275.643	4280.060	4281.533	4288.894
5.0	4305.090	4306.562	4309.507	4305.090	4302.145	4303.618	4300.673	4306.562	4309.507	4318.341
7.5	4358.094	4361.039	4361.039	4359.566	4356.622	4358.094	4355.149	4366.928	4369.873	4378.707
10.0	4421.404	4422.876	4422.876	4422.876	4421.404	4425.821	4427.293	4439.072	4442.017	4452.323
12.5	4493.548	4495.020	4493.548	4490.604	4492.076	4497.965	4502.382	4514.161	4520.050	4528.884
15.0	4577.471	4577.471	4568.637	4568.637	4571.582	4574.526	4580.416	4589.250	4595.139	4605.445
17.5	4680.534	4673.172	4659.921	4658.449	4658.449	4658.449	4659.921	4668.755	4674.645	4682.006
20.0	4792.431	4779.180	4760.040	4760.040	4757.095	4754.150	4752.678	4758.567	4758.567	4767.401
22.5	4913.162	4895.494	4880.771	4873.409	4867.520	4866.047	4854.269	4860.158	4857.213	4861.630
25.0	5042.727	5028.004	5014.753	5007.391	4998.557	4989.723	4976.472	4977.944	4972.055	4973.527
27.5	5201.738	5182.598	5169.347	5161.986	5145.790	5141.373	5125.177	5123.705	5111.926	5120.760
30.0	5388.724	5368.112	5356.333	5346.027	5332.776	5323.942	5304.801	5304.801	5290.078	5298.912
32.5	5590.433	5571.293	5559.514	5562.459	5543.319	5552.153	5534.485	5531.540	5512.400	5515.345
35.0	5852.508	5830.423	5812.755	5821.589	5815.700	5821.589	5809.810	5812.755	5792.142	5808.338
37.5	6164.642	6144.029	6130.778	6149.918	6136.667	6164.642	6151.391	6163.169	6145.501	6169.059
40.0	6518.001	6495.916	6482.665	6510.639	6528.307	6562.170	6569.532	6590.145	6578.366	6607.813
42.5	6858.109	6847.802	6846.330	6896.389	6940.559	7005.341	7045.094	7077.486	7078.958	7117.238
45.0	7211.468	7205.578	7224.719	7288.029	7357.228	7473.542	7517.712	7583.967	7604.579	7636.971
47.5	7583.967	7592.801	7623.720	7704.698	7806.288	7940.270	7999.164	8090.448	8119.895	8165.537
50.0	8050.695	8066.891	8100.754	8202.345	8340.744	8521.840	8593.984	8689.686	8704.409	8750.051
52.5	8627.848	8644.044	8686.741	8839.863	9031.266	9274.201	9371.374	9419.961	9431.740	9472.965
55.0	9313.953	9337.511	9418.489	9648.172	9944.110	10257.716	10410.839	10450.591	10437.340	10499.178
57.5	10029.505	10075.147	10231.214	10584.573	11063.080	11509.196	11749.186	11730.045	11755.075	11785.994
60.0	10746.530	10801.006	11091.055	11638.761	12326.339	12972.691	13379.054	13383.471	13407.028	13396.722
62.5	11074.859	11158.782	11652.012	12354.313	13330.467	14359.625	15103.151	15335.779	15391.728	15365.226
65.0	10513.902	10655.245	11354.601	12311.615	13626.405	15039.841	16354.631	17101.102	17516.298	17694.450
67.0	9218.252	9383.153	10144.347	11372.269	12857.849	14581.947	16431.192	17837.266	18688.272	19274.259
67.5	8739.745	8910.535	9665.840	10962.962	12469.154	14275.702	16253.040	17859.351	18831.088	19484.802
70.0	5360.750	5522.706	6223.535	7514.767	9019.488	11123.446	13645.545	16154.394	17838.738	18616.128
72.5	2357.199	2436.705	2813.621	3374.578	4218.223	5852.508	8140.507	10846.648	12744.480	13710.328
75.0	1054.188	1076.273	1164.612	1289.760	1488.525	1955.253	2813.621	4444.961	5945.265	6856.636
77.5	599.238	603.655	669.910	721.441	795.058	881.925	995.294	1248.535	1687.289	1990.589
80.0	385.750	382.806	404.890	453.477	512.370	555.068	594.821	646.352	715.552	753.832
82.5	231.156	228.211	235.573	256.185	303.300	326.857	344.525	363.665	382.806	381.333
85.0	78.033	85.395	94.229	106.008	136.927	142.816	150.178	153.122	142.816	135.454
87.5	8.834	10.306	14.723	16.196	22.085	23.557	25.030	26.502	25.030	22.085
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

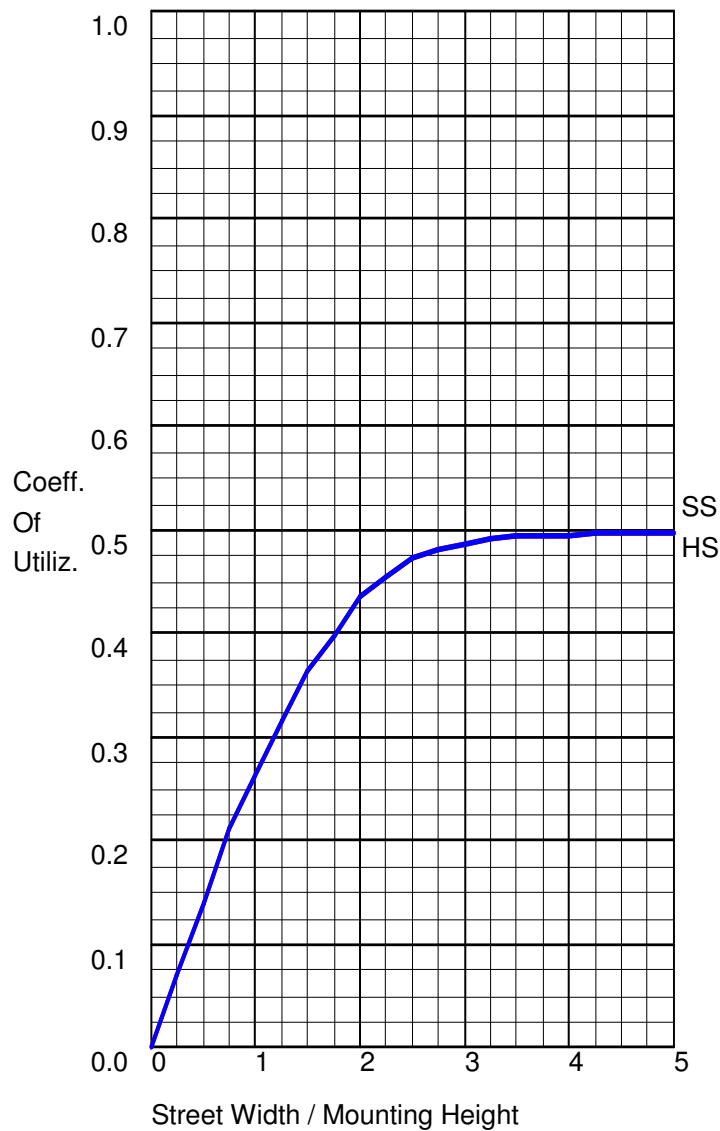
Vert. Angles	Horizontal Angles								
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422	4287.422
2.5	4290.367	4293.311	4297.728	4302.145	4303.618	4306.562	4310.979	4309.507	4316.869
5.0	4321.286	4322.758	4333.064	4338.954	4340.426	4344.843	4350.732	4349.260	4353.677
7.5	4384.596	4389.013	4396.374	4405.208	4411.098	4415.515	4424.349	4421.404	4424.349
10.0	4459.685	4465.574	4472.936	4481.770	4490.604	4493.548	4505.327	4505.327	4503.854
12.5	4536.246	4545.080	4550.969	4558.331	4567.165	4574.526	4583.360	4587.777	4583.360
15.0	4611.334	4618.696	4626.058	4633.419	4643.726	4652.560	4664.338	4673.172	4665.811
17.5	4686.423	4693.785	4705.564	4714.398	4726.176	4736.482	4752.678	4764.457	4755.623
20.0	4771.818	4777.708	4788.014	4804.210	4818.933	4832.184	4851.324	4867.520	4863.103
22.5	4868.992	4874.881	4886.660	4899.911	4920.524	4939.664	4961.749	4983.834	4983.834
25.0	4982.361	4986.778	5001.502	5016.225	5041.255	5061.867	5092.786	5113.399	5114.871

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**CANDELA TABULATION - (Cont.)**

27.5	5120.760	5131.067	5144.318	5161.986	5188.487	5209.100	5234.130	5251.798	5263.576
30.0	5300.384	5307.746	5323.942	5338.665	5371.056	5390.197	5415.226	5422.588	5441.728
32.5	5525.651	5534.485	5556.570	5569.821	5597.795	5608.101	5628.714	5630.186	5650.799
35.0	5809.810	5824.534	5843.674	5851.036	5874.593	5879.010	5899.622	5895.205	5914.346
37.5	6166.114	6180.837	6197.033	6202.922	6223.535	6216.173	6220.590	6219.118	6232.369
40.0	6609.285	6600.451	6629.898	6625.481	6632.842	6594.562	6576.894	6571.004	6579.838
42.5	7103.988	7096.626	7114.294	7090.737	7050.984	6983.257	6943.504	6933.197	6942.031
45.0	7619.303	7600.162	7594.273	7544.214	7467.653	7376.368	7324.837	7313.058	7316.003
47.5	8143.452	8109.588	8078.669	8024.193	7918.185	7809.233	7747.395	7731.200	7726.783
50.0	8729.439	8702.937	8669.073	8629.320	8476.198	8336.327	8256.821	8233.264	8231.792
52.5	9487.688	9520.079	9477.382	9384.625	9182.916	8982.679	8873.727	8831.029	8810.417
55.0	10590.463	10618.437	10556.599	10365.196	10095.760	9777.737	9598.113	9524.496	9511.245
57.5	11946.478	11974.452	11902.308	11622.565	11226.509	10748.002	10487.400	10353.418	10329.860
60.0	13555.733	13596.959	13520.397	13192.068	12635.528	11946.478	11484.166	11251.538	11123.446
62.5	15527.182	15572.824	15481.540	14920.582	14035.713	13078.699	12345.479	11914.086	11735.935
65.0	17907.938	17751.871	17233.611	16015.995	14584.891	13270.101	12251.250	11493.000	11335.461
67.0	19296.344	18707.413	17426.486	15574.296	13748.608	12196.774	10983.574	10063.369	9954.417
67.5	19456.828	18726.553	17255.696	15234.188	13334.884	11740.352	10478.566	9539.220	9447.935
70.0	18112.592	16746.270	14515.692	11962.673	9854.298	7994.747	6671.123	5870.176	5787.725
72.5	13212.681	11409.078	88791.277	6133.723	4383.123	3402.552	2921.101	2636.941	2610.439
75.0	6158.752	4425.821	2846.012	2042.120	1674.038	1429.631	1311.845	1258.841	1238.229
77.5	1651.953	1252.952	1079.217	962.903	883.397	815.670	753.832	715.552	709.663
80.0	721.441	671.382	643.408	603.655	571.264	524.149	452.005	440.226	441.699
82.5	393.112	382.806	378.389	362.193	337.163	292.993	260.602	260.602	266.492
85.0	136.927	156.067	151.650	147.233	139.871	113.369	103.063	104.535	101.591
87.5	23.557	25.030	20.613	20.613	20.613	17.668	14.723	14.723	13.251
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

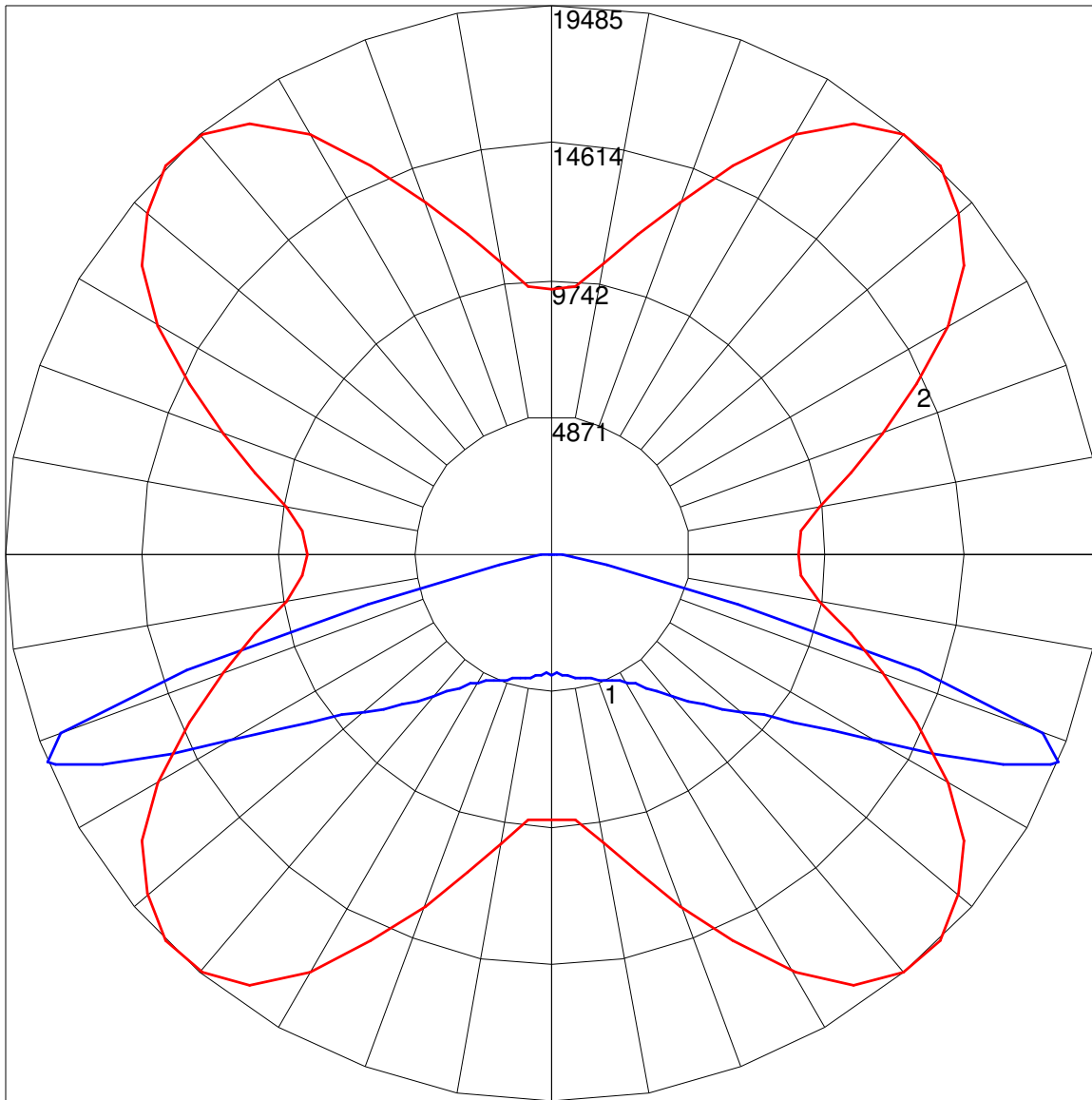
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

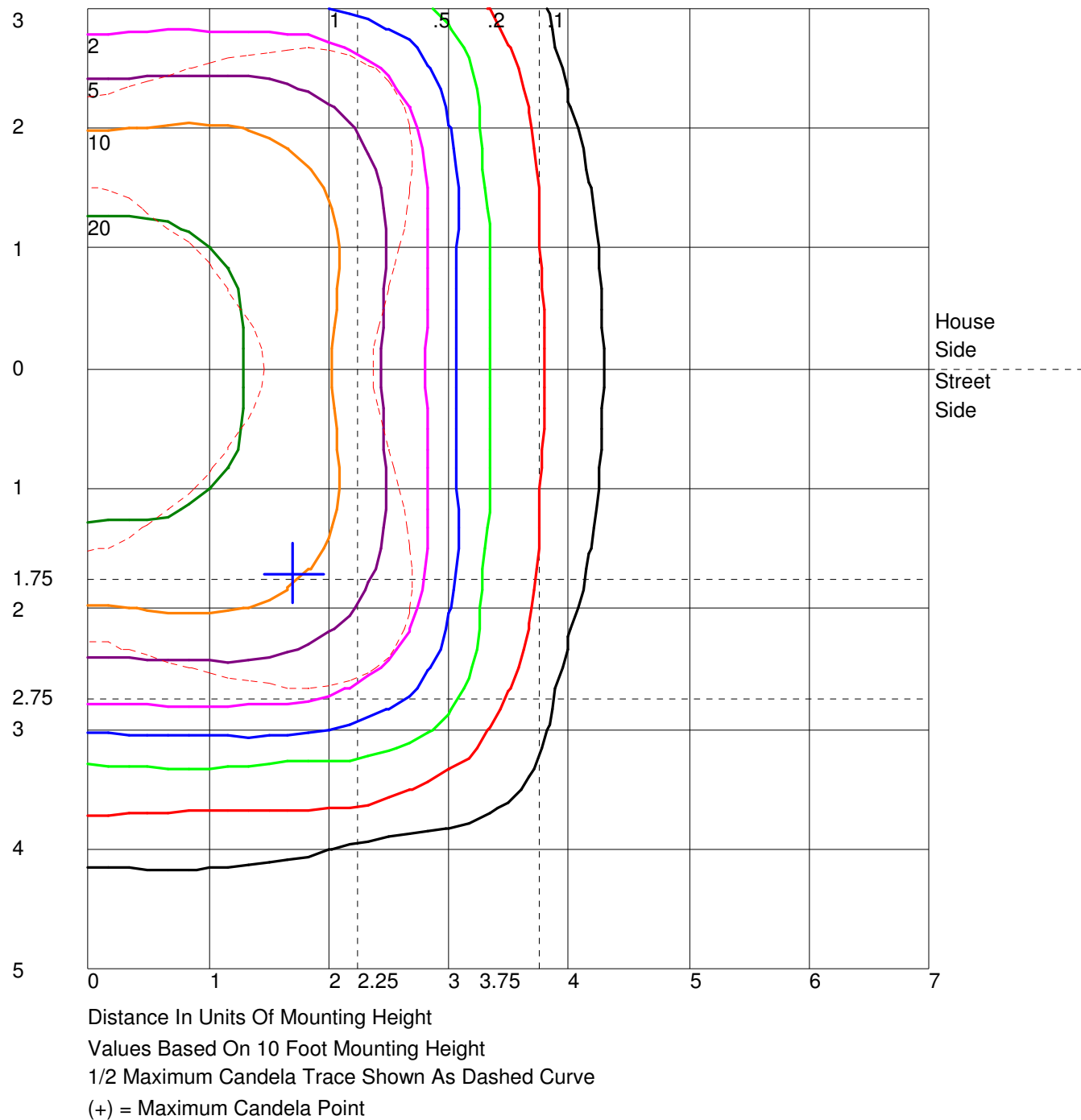
	Lumens	Percent Of Luminaire
Downward Street Side	20378.2	50.0
Downward House Side	20378.2	50.0
Downward Total	40756.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	40756.4	100.0

POLAR GRAPH

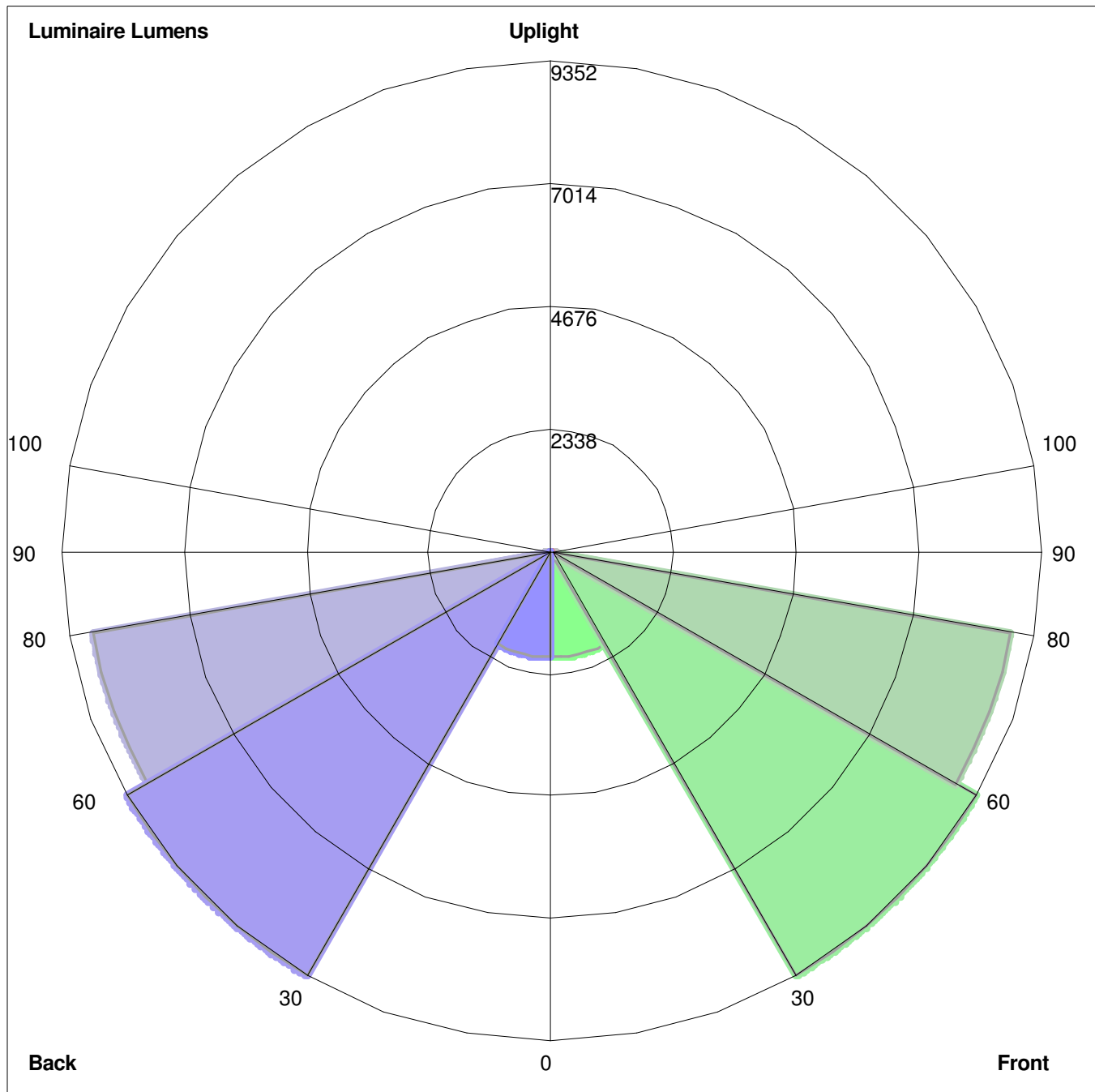


Maximum Candela = 19484.802 Located At Horizontal Angle = 45, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2034.1, Medium= 9352.0, High=8890.9, Very High=101.2  
Back: Low=2034.1, Medium= 9352.0, High=8890.9, Very High=101.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4