



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-740-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-L330-740-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	35507
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	16974.921
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	16974.921
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	656.73 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-740-T5-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1772.1	N.A.	5.0
FM - Front-Medium (30-60)	8147.4	N.A.	22.9
FH - Front-High (60-80)	7745.6	N.A.	21.8
FVH - Front-Very High (80-90)	88.2	N.A.	0.2
BL - Back-Low (0-30)	1772.1	N.A.	5.0
BM - Back-Medium (30-60)	8147.4	N.A.	22.9
BH - Back-High (60-80)	7745.6	N.A.	21.8
BVH - Back-Very High (80-90)	88.2	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	35506.6	N.A.	100.0
BUG Rating	B5-U0-G4		

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**CANDELA TABULATION**

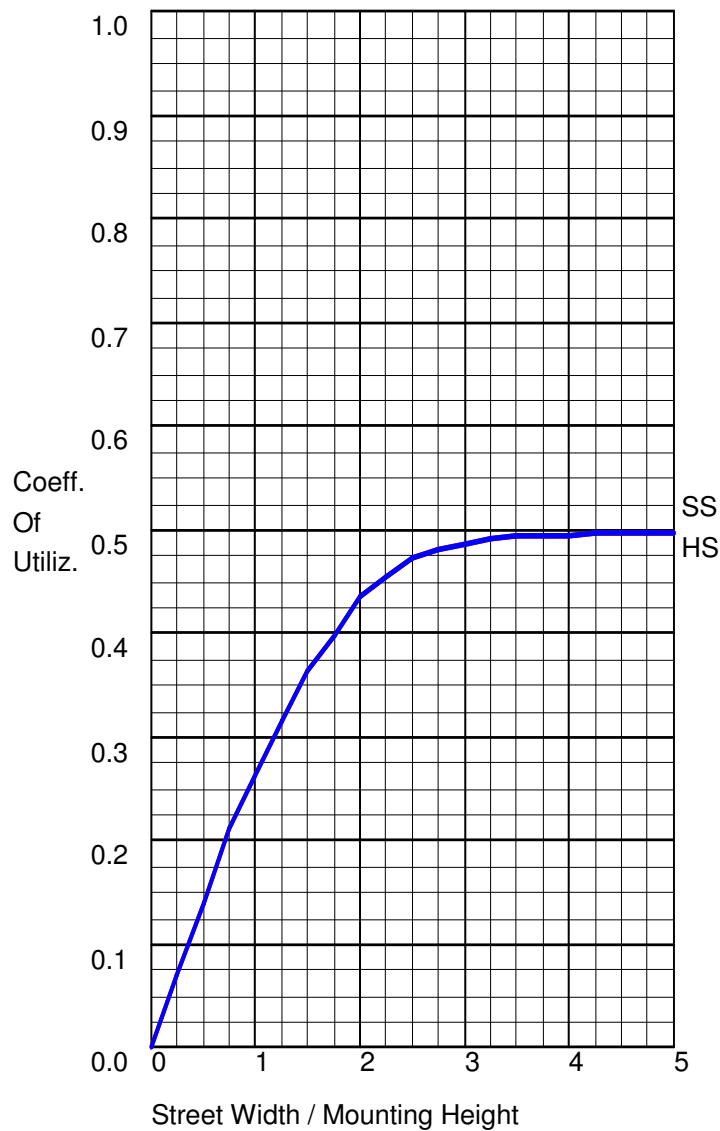
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150
2.5	3724.888	3724.888	3727.454	3727.454	3726.171	3724.888	3724.888	3728.736	3730.019	3736.432
5.0	3750.542	3751.824	3754.390	3750.542	3747.976	3749.259	3746.694	3751.824	3754.390	3762.086
7.5	3796.718	3799.283	3799.283	3798.001	3795.435	3796.718	3794.153	3804.414	3806.979	3814.676
10.0	3851.873	3853.156	3853.156	3853.156	3851.873	3855.721	3857.004	3867.265	3869.831	3878.809
12.5	3914.724	3916.007	3914.724	3912.159	3913.442	3918.572	3922.420	3932.682	3937.812	3945.508
15.0	3987.837	3987.837	3980.141	3980.141	3982.706	3985.271	3990.402	3998.098	4003.229	4012.207
17.5	4077.624	4071.211	4059.666	4058.384	4058.384	4058.384	4059.666	4067.363	4072.493	4078.907
20.0	4175.107	4163.563	4146.888	4146.888	4144.323	4141.758	4140.475	4145.606	4145.606	4153.302
22.5	4280.287	4264.894	4252.068	4245.654	4240.524	4239.241	4228.980	4234.110	4231.545	4235.393
25.0	4393.162	4380.335	4368.791	4362.378	4354.682	4346.986	4335.442	4336.724	4331.594	4332.876
27.5	4531.691	4515.016	4503.472	4497.059	4482.949	4479.101	4464.992	4463.709	4453.448	4461.144
30.0	4694.591	4676.633	4666.372	4657.393	4645.849	4638.153	4621.478	4621.478	4608.651	4616.347
32.5	4870.317	4853.642	4843.381	4845.946	4829.271	4836.968	4821.575	4819.010	4802.335	4804.901
35.0	5098.633	5079.393	5064.001	5071.697	5066.566	5071.697	5061.436	5064.001	5046.044	5060.153
37.5	5370.560	5352.603	5341.059	5357.734	5346.190	5370.560	5359.016	5369.278	5353.886	5374.408
40.0	5678.402	5659.162	5647.618	5671.989	5687.381	5716.883	5723.296	5741.253	5730.992	5756.646
42.5	5974.700	5965.722	5964.439	6008.050	6046.530	6102.968	6137.600	6165.819	6167.102	6200.451
45.0	6282.542	6277.412	6294.086	6349.241	6409.527	6510.858	6549.339	6607.059	6625.017	6653.235
47.5	6607.059	6614.755	6641.691	6712.238	6800.743	6917.466	6968.773	7048.299	7073.953	7113.716
50.0	7013.667	7027.776	7057.278	7145.783	7266.354	7424.123	7486.974	7570.348	7583.175	7622.938
52.5	7516.476	7530.585	7567.783	7701.181	7867.929	8079.570	8164.227	8206.555	8216.816	8252.731
55.0	8114.202	8134.725	8205.272	8405.369	8663.187	8936.397	9069.795	9104.427	9092.883	9146.756
57.5	8737.582	8777.345	8913.309	9221.151	9638.020	10026.671	10235.747	10219.072	10240.877	10267.814
60.0	9362.245	9409.704	9662.391	10139.546	10738.555	11301.650	11655.668	11659.516	11680.039	11671.060
62.5	9648.282	9721.394	10151.090	10762.926	11613.340	12509.930	13157.680	13360.343	13409.085	13385.997
65.0	9159.582	9282.719	9891.990	10725.729	11871.157	13102.525	14247.954	14898.270	15259.985	15415.188
67.0	8030.828	8174.488	8837.631	9907.382	11201.601	12703.613	14314.653	15539.608	16280.994	16791.499
67.5	7613.959	7762.749	8420.762	9550.798	10862.975	12436.817	14159.450	15558.848	16405.414	16974.921
70.0	4670.220	4811.314	5421.867	6546.773	7857.667	9690.610	11887.832	14073.510	15540.891	16218.143
72.5	2053.563	2122.827	2451.192	2939.891	3674.864	5098.633	7091.910	9449.467	11102.835	11944.270
75.0	918.395	937.635	1014.596	1123.623	1296.784	1703.392	2451.192	3872.396	5179.442	5973.418
77.5	522.049	525.897	583.617	628.511	692.645	768.322	867.088	1087.708	1469.946	1734.177
80.0	336.061	333.496	352.736	395.064	446.371	483.568	518.201	563.094	623.380	656.730
82.5	201.380	198.815	205.228	223.185	264.231	284.754	300.146	316.821	333.496	332.213
85.0	67.982	74.395	82.091	92.353	119.289	124.419	130.833	133.398	124.419	118.006
87.5	7.696	8.979	12.827	14.109	19.240	20.523	21.805	23.088	21.805	19.240
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	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150	3735.150	
2.5	3737.715	3740.280	3744.128	3747.976	3749.259	3751.824	3755.672	3754.390	3760.803	
5.0	3764.651	3765.934	3774.913	3780.043	3781.326	3785.174	3790.305	3789.022	3792.870	
7.5	3819.806	3823.654	3830.068	3837.764	3842.894	3846.742	3854.438	3851.873	3854.438	
10.0	3885.223	3890.353	3896.767	3904.463	3912.159	3914.724	3924.986	3924.986	3923.703	
12.5	3951.922	3959.618	3964.749	3971.162	3978.858	3985.271	3992.967	3996.815	3992.967	
15.0	4017.338	4023.752	4030.165	4036.578	4045.557	4053.253	4063.514	4071.211	4064.797	
17.5	4082.755	4089.168	4099.429	4107.125	4117.387	4126.366	4140.475	4150.736	4143.040	
20.0	4157.150	4162.280	4171.259	4185.369	4198.195	4209.739	4226.414	4240.524	4236.676	
22.5	4241.806	4246.937	4257.198	4268.742	4286.700	4303.375	4322.615	4341.855	4341.855	
25.0	4340.572	4344.420	4357.247	4370.074	4391.879	4409.837	4436.773	4454.730	4456.013	

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<b>27.5</b>	4461.144	4470.122	4481.667	4497.059	4520.147	4538.104	4559.910	4575.302	4585.563
<b>30.0</b>	4617.630	4624.043	4638.153	4650.980	4679.199	4695.873	4717.679	4724.092	4740.767
<b>32.5</b>	4813.879	4821.575	4840.816	4852.360	4876.730	4885.709	4903.667	4904.949	4922.907
<b>35.0</b>	5061.436	5074.262	5090.937	5097.351	5117.873	5121.721	5139.679	5135.831	5152.506
<b>37.5</b>	5371.843	5384.670	5398.779	5403.910	5421.867	5415.454	5419.302	5418.019	5429.563
<b>40.0</b>	5757.928	5750.232	5775.886	5772.038	5778.451	5745.101	5729.709	5724.579	5732.275
<b>42.5</b>	6188.907	6182.494	6197.886	6177.363	6142.731	6083.728	6049.095	6040.117	6047.813
<b>45.0</b>	6637.843	6621.168	6616.038	6572.427	6505.728	6426.202	6381.308	6371.047	6373.612
<b>47.5</b>	7094.476	7064.974	7038.038	6990.579	6898.226	6803.308	6749.436	6735.327	6731.479
<b>50.0</b>	7604.980	7581.892	7552.391	7517.758	7384.360	7262.506	7193.242	7172.719	7171.436
<b>52.5</b>	8265.558	8293.777	8256.579	8175.771	8000.044	7825.600	7730.682	7693.485	7675.527
<b>55.0</b>	9226.281	9250.652	9196.780	9030.032	8795.303	8518.245	8361.759	8297.625	8286.081
<b>57.5</b>	10407.625	10431.996	10369.145	10125.437	9780.397	9363.528	9136.494	9019.771	8999.248
<b>60.0</b>	11809.589	11845.504	11778.805	11492.768	11007.917	10407.625	10004.865	9802.203	9690.610
<b>62.5</b>	13527.091	13566.854	13487.328	12998.629	12227.741	11394.002	10755.230	10379.406	10224.203
<b>65.0</b>	15601.176	15465.213	15013.711	13952.939	12706.179	11560.750	10673.139	10012.561	9875.315
<b>67.0</b>	16810.739	16297.669	15181.742	13568.136	11977.619	10625.680	9568.756	8767.084	8672.166
<b>67.5</b>	16950.550	16314.344	15032.951	13271.839	11617.188	10228.051	9128.798	8310.452	8230.926
<b>70.0</b>	15779.468	14589.146	12645.893	10421.735	8584.944	6964.925	5811.801	5114.025	5042.196
<b>72.5</b>	11510.726	9939.449	7658.853	5343.624	3818.524	2964.262	2544.827	2297.271	2274.183
<b>75.0</b>	5365.430	3855.721	2479.411	1779.070	1458.402	1245.477	1142.863	1096.687	1078.730
<b>77.5</b>	1439.161	1091.556	940.201	838.869	769.605	710.602	656.730	623.380	618.249
<b>80.0</b>	628.511	584.900	560.529	525.897	497.678	456.632	393.781	383.520	384.803
<b>82.5</b>	342.474	333.496	329.647	315.538	293.733	255.252	227.033	227.033	232.164
<b>85.0</b>	119.289	135.964	132.116	128.268	121.854	98.766	89.787	91.070	88.505
<b>87.5</b>	20.523	21.805	17.957	17.957	17.957	15.392	12.827	12.827	11.544
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

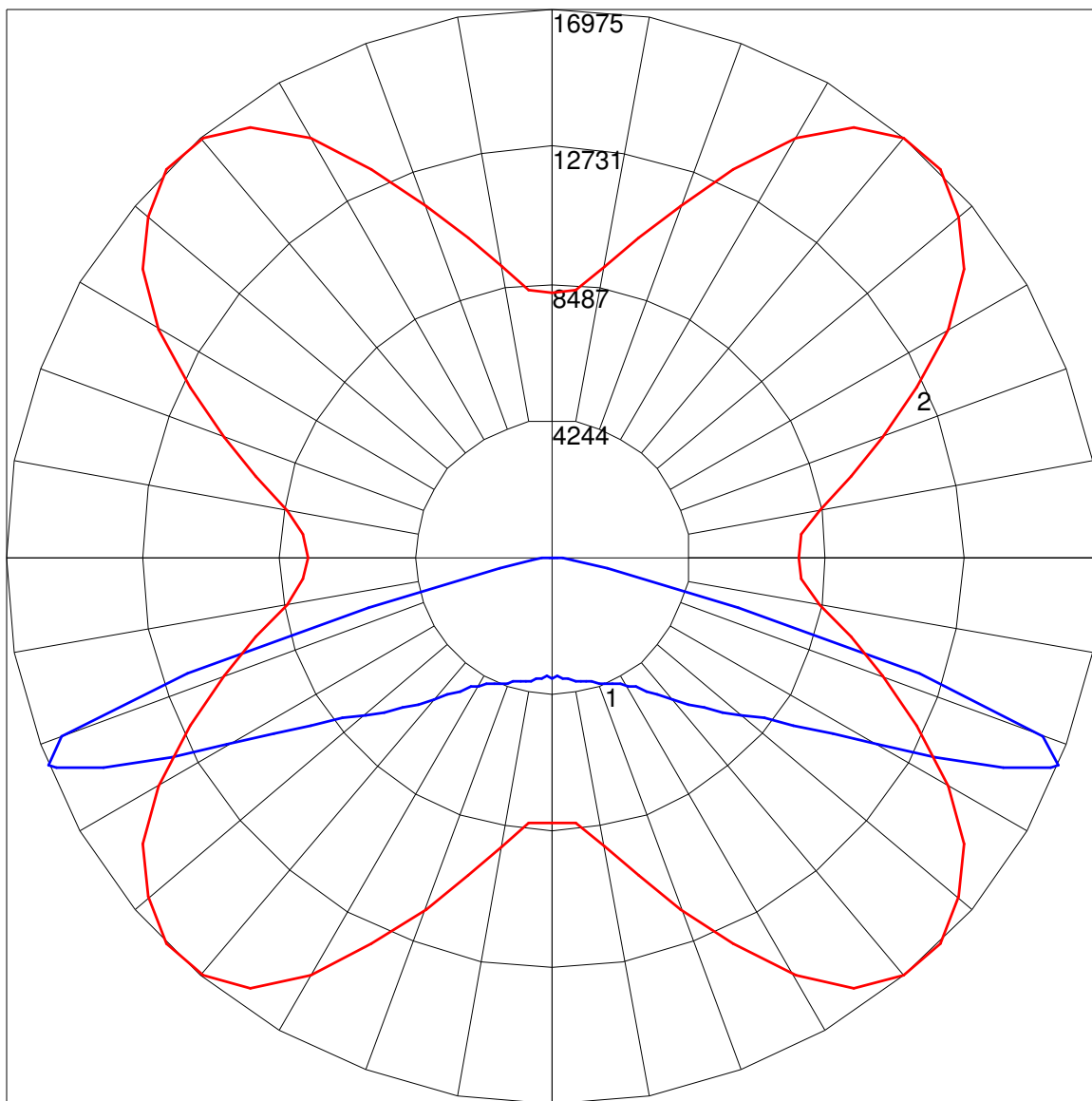
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

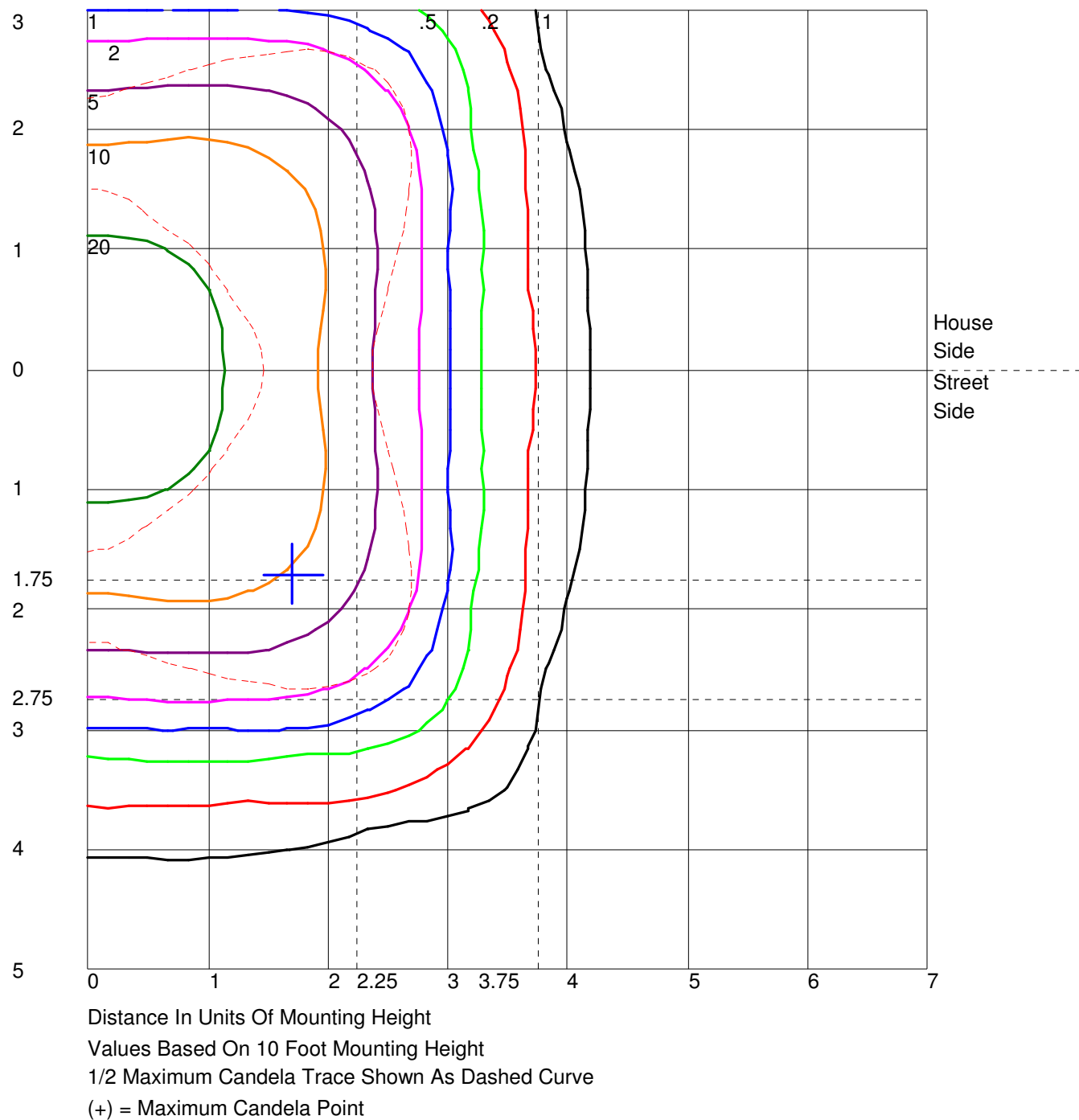
	Lumens	Percent Of Luminaire
Downward Street Side	17753.3	50.0
Downward House Side	17753.3	50.0
Downward Total	35506.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	35506.6	100.0

POLAR GRAPH

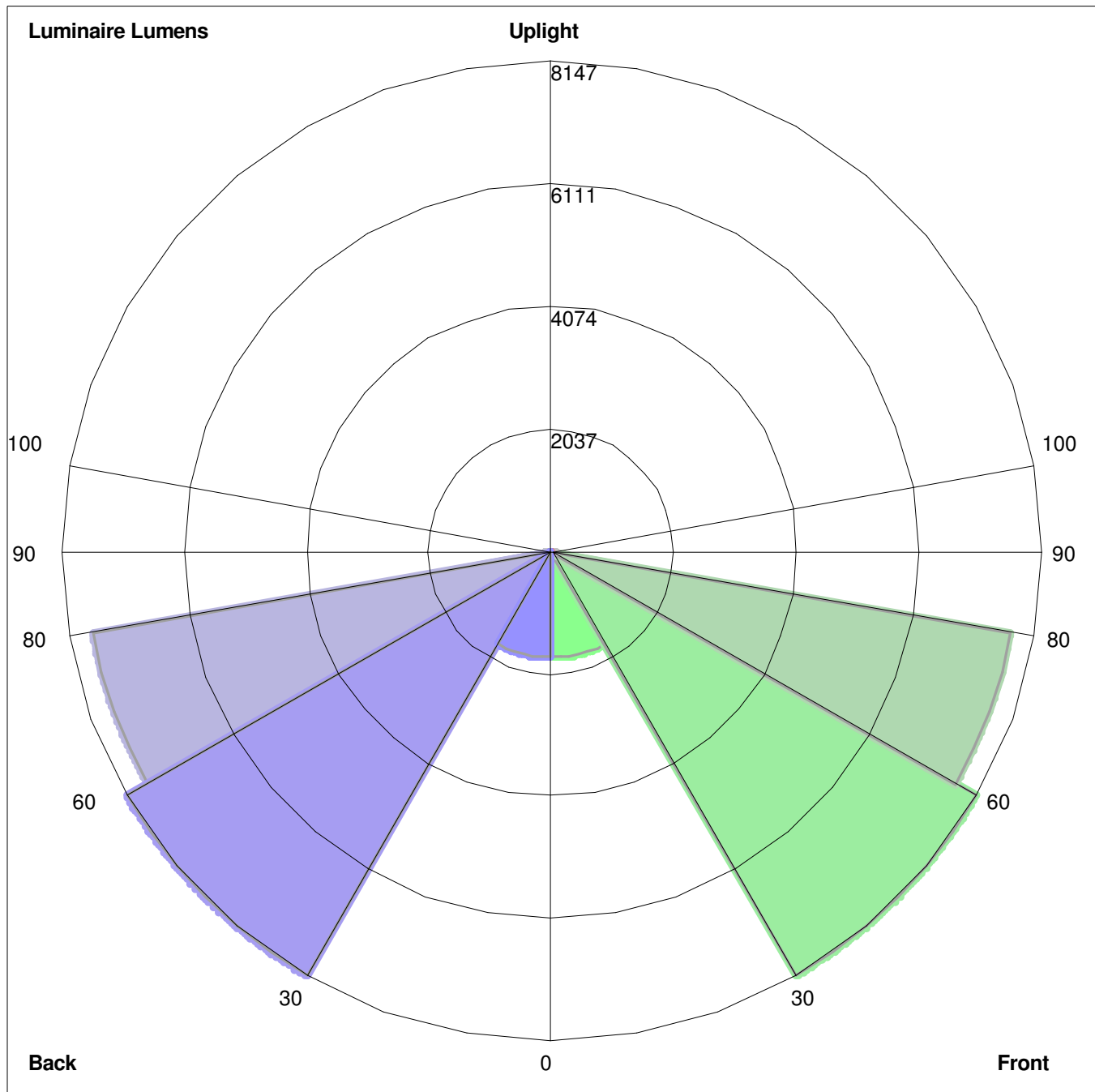


Maximum Candela = 16974.921 Located At Horizontal Angle = 45, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1772.1, Medium=8147.4, High=7745.6, Very High=88.2  
Back: Low=1772.1, Medium=8147.4, High=7745.6, Very High=88.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4