



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-750-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-L330-750-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	36572
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17484.165
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	17484.165
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	676.431 (1.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1825.2	N.A.	5.0
FM - Front-Medium (30-60)	8391.8	N.A.	22.9
FH - Front-High (60-80)	7978.0	N.A.	21.8
FVH - Front-Very High (80-90)	90.8	N.A.	0.2
BL - Back-Low (0-30)	1825.2	N.A.	5.0
BM - Back-Medium (30-60)	8391.8	N.A.	22.9
BH - Back-High (60-80)	7978.0	N.A.	21.8
BVH - Back-Very High (80-90)	90.8	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	36571.6	N.A.	100.0
BUG Rating	B5-U0-G4		

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CANDELA TABULATION

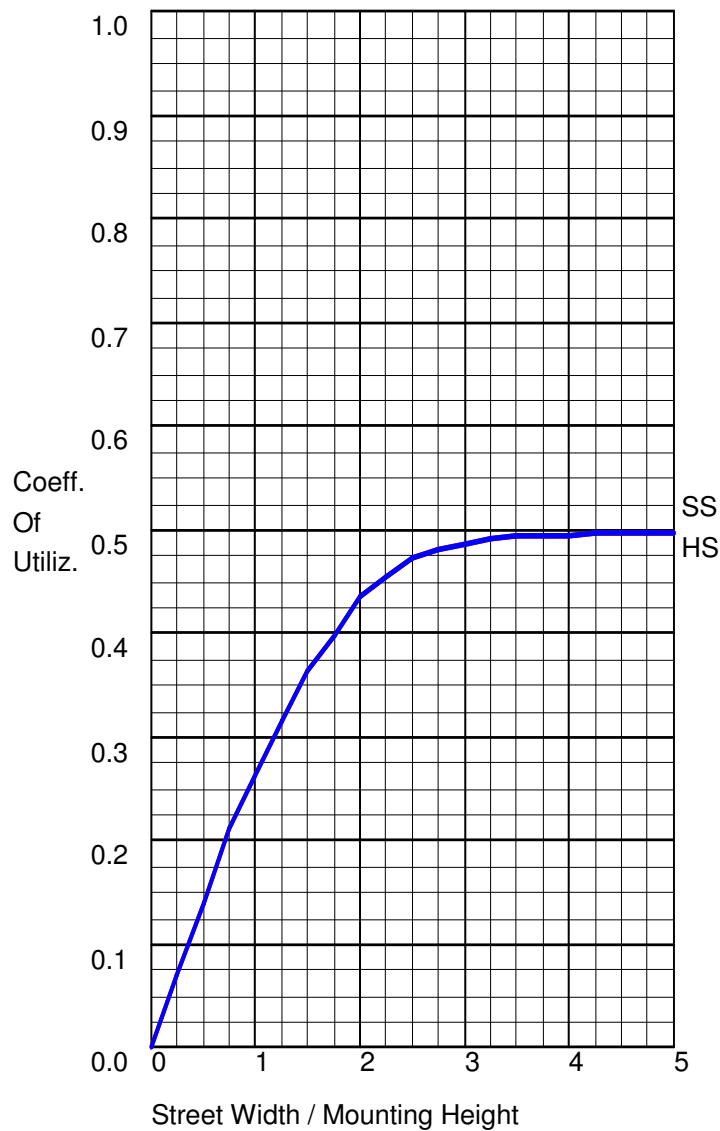
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203
2.5	3836.634	3836.634	3839.276	3839.276	3837.955	3836.634	3836.634	3840.597	3841.919	3848.524
5.0	3863.057	3864.378	3867.021	3863.057	3860.415	3861.736	3859.094	3864.378	3867.021	3874.947
7.5	3910.619	3913.261	3913.261	3911.940	3909.298	3910.619	3907.976	3918.546	3921.188	3929.115
10.0	3967.428	3968.749	3968.749	3968.749	3967.428	3971.392	3972.713	3983.282	3985.924	3995.173
12.5	4032.165	4033.486	4032.165	4029.523	4030.844	4036.128	4040.092	4050.661	4055.946	4063.873
15.0	4107.471	4107.471	4099.544	4099.544	4102.186	4104.828	4110.113	4118.040	4123.325	4132.573
17.5	4199.952	4193.346	4181.455	4180.134	4180.134	4180.134	4181.455	4189.382	4194.667	4201.273
20.0	4300.359	4288.469	4271.294	4271.294	4268.652	4266.009	4264.688	4269.973	4269.973	4277.900
22.5	4408.694	4392.840	4379.629	4373.023	4367.738	4366.417	4355.848	4361.132	4358.490	4362.454
25.0	4524.956	4511.744	4499.854	4493.248	4485.321	4477.394	4465.504	4466.825	4461.540	4462.861
27.5	4667.640	4650.465	4638.575	4631.969	4617.437	4613.473	4598.940	4597.619	4587.050	4594.977
30.0	4835.427	4816.931	4806.362	4797.114	4785.223	4777.296	4760.121	4760.121	4746.910	4754.837
32.5	5016.425	4999.250	4988.681	4991.323	4974.148	4982.075	4966.221	4963.579	4946.404	4949.046
35.0	5251.591	5231.774	5215.920	5223.847	5218.562	5223.847	5213.277	5215.920	5197.424	5211.956
37.5	5531.676	5513.180	5501.289	5518.464	5506.574	5531.676	5519.785	5530.355	5514.501	5535.639
40.0	5848.753	5828.936	5817.045	5842.147	5858.001	5888.388	5894.993	5913.490	5902.920	5929.343
42.5	6153.940	6144.692	6143.371	6188.290	6227.924	6286.055	6321.726	6350.792	6352.113	6386.463
45.0	6471.017	6465.732	6482.907	6539.717	6601.811	6706.183	6745.817	6805.269	6823.765	6852.831
47.5	6805.269	6813.196	6840.940	6913.604	7004.764	7124.989	7177.835	7259.746	7286.170	7327.125
50.0	7224.075	7238.608	7268.995	7360.154	7484.343	7646.845	7711.581	7797.457	7810.668	7851.624
52.5	7741.968	7756.501	7794.814	7932.214	8103.964	8321.955	8409.151	8452.749	8463.319	8500.311
55.0	8357.626	8378.765	8451.428	8657.528	8923.081	9204.487	9341.887	9377.558	9365.667	9421.156
57.5	8999.708	9040.663	9180.706	9497.783	9927.158	10327.468	10542.817	10525.642	10548.101	10575.845
60.0	9643.110	9691.993	9952.260	10443.730	11060.709	11640.696	12005.335	12009.299	12030.437	12021.189
62.5	9937.728	10013.033	10455.620	11085.811	11961.737	12885.224	13552.407	13761.150	13811.354	13787.573
65.0	9434.368	9561.198	10188.747	11047.498	12227.289	13495.598	14675.389	15345.215	15717.780	15877.640
67.0	8271.751	8419.721	9102.758	10204.601	11537.646	13084.719	14744.089	16005.792	16769.420	17295.239
67.5	7842.376	7995.630	8673.382	9837.320	11188.861	12809.918	14584.230	16025.610	16897.572	17484.165
70.0	4810.325	4955.652	5584.522	6743.175	8093.395	9981.326	12244.464	14495.712	16007.113	16704.683
72.5	2115.169	2186.511	2524.727	3028.087	3785.109	5251.591	7304.666	9732.949	11435.917	12302.595
75.0	945.947	965.764	1045.034	1157.332	1335.688	1754.494	2524.727	3988.567	5334.824	6152.619
77.5	537.710	541.674	601.126	647.366	713.424	791.372	893.101	1120.339	1514.044	1786.201
80.0	346.143	343.500	363.318	406.916	459.762	498.075	533.747	579.987	642.081	676.431
82.5	207.421	204.779	211.385	229.881	272.158	293.296	309.150	326.325	343.500	342.179
85.0	70.021	76.627	84.554	95.123	122.867	128.152	134.758	137.400	128.152	121.546
87.5	7.927	9.248	13.212	14.533	19.817	21.138	22.460	23.781	22.460	19.817
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	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203	3847.203
2.5	3849.846	3852.488	3856.451	3860.415	3861.736	3864.378	3868.342	3867.021	3873.626
5.0	3877.590	3878.911	3888.159	3893.444	3894.765	3898.728	3904.013	3902.692	3906.655
7.5	3934.399	3938.363	3944.969	3952.896	3958.180	3962.144	3970.071	3967.428	3970.071
10.0	4001.778	4007.063	4013.669	4021.596	4029.523	4032.165	4042.734	4042.734	4041.413
12.5	4070.478	4078.405	4083.690	4090.296	4098.223	4104.828	4112.755	4116.719	4112.755
15.0	4137.857	4144.463	4151.069	4157.675	4166.923	4174.850	4185.419	4193.346	4186.740
17.5	4205.236	4211.842	4222.411	4230.338	4240.907	4250.155	4264.688	4275.257	4267.330
20.0	4281.863	4287.148	4296.396	4310.929	4324.140	4336.031	4353.206	4367.738	4363.775
22.5	4369.059	4374.344	4384.913	4396.804	4415.300	4432.475	4452.292	4472.110	4472.110
25.0	4470.788	4474.752	4487.963	4501.175	4523.635	4542.131	4569.875	4588.371	4589.692

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27.5	4594.977	4604.225	4616.115	4631.969	4655.750	4674.246	4696.706	4712.560	4723.129
30.0	4756.158	4762.764	4777.296	4790.508	4819.573	4836.748	4859.208	4865.814	4882.989
32.5	4958.295	4966.221	4986.039	4997.929	5023.031	5032.279	5050.775	5052.097	5070.593
35.0	5213.277	5226.489	5243.664	5250.270	5271.408	5275.372	5293.868	5289.904	5307.079
37.5	5532.997	5546.208	5560.741	5566.026	5584.522	5577.916	5581.880	5580.559	5592.449
40.0	5930.665	5922.738	5949.161	5945.197	5951.803	5917.453	5901.599	5896.315	5904.241
42.5	6374.573	6367.967	6383.821	6362.682	6327.011	6266.238	6230.567	6221.319	6229.246
45.0	6836.977	6819.802	6814.517	6769.598	6700.898	6618.986	6572.746	6562.177	6564.819
47.5	7307.308	7276.921	7249.177	7200.294	7105.171	7007.406	6951.917	6937.385	6933.421
50.0	7833.128	7809.347	7778.960	7743.289	7605.889	7480.379	7409.037	7387.898	7386.577
52.5	8513.523	8542.588	8504.274	8421.042	8240.043	8060.366	7962.601	7924.287	7905.791
55.0	9503.068	9528.170	9472.681	9300.931	9059.160	8773.790	8612.609	8546.551	8534.661
57.5	10719.851	10744.953	10680.217	10429.197	10073.807	9644.431	9410.587	9290.362	9269.223
60.0	12163.874	12200.866	12132.166	11837.548	11338.152	10719.851	10305.009	10096.266	9981.326
62.5	13932.900	13973.856	13891.944	13388.584	12594.570	11735.819	11077.884	10690.786	10530.926
65.0	16069.208	15929.165	15464.119	14371.524	13087.361	11907.570	10993.330	10312.936	10171.572
67.0	17315.057	16786.595	15637.190	13975.177	12336.945	10944.448	9855.816	9030.094	8932.329
67.5	17459.063	16803.770	15483.936	13669.990	11965.700	10534.890	9402.660	8559.763	8477.851
70.0	16252.848	15026.816	13025.267	10734.384	8842.490	7173.871	5986.153	5267.445	5193.460
72.5	11856.045	10237.630	7888.616	5503.932	3933.078	3053.189	2621.171	2366.189	2342.408
75.0	5526.391	3971.392	2553.793	1832.442	1502.153	1282.841	1177.149	1129.587	1111.091
77.5	1482.336	1124.303	968.407	864.035	792.693	731.920	676.431	642.081	636.797
80.0	647.366	602.447	577.345	541.674	512.608	470.331	405.595	395.025	396.346
82.5	352.748	343.500	339.537	325.004	302.544	262.910	233.844	233.844	239.129
85.0	122.867	140.042	136.079	132.115	125.510	101.729	92.481	93.802	91.160
87.5	21.138	22.460	18.496	18.496	18.496	15.854	13.212	13.212	11.890
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

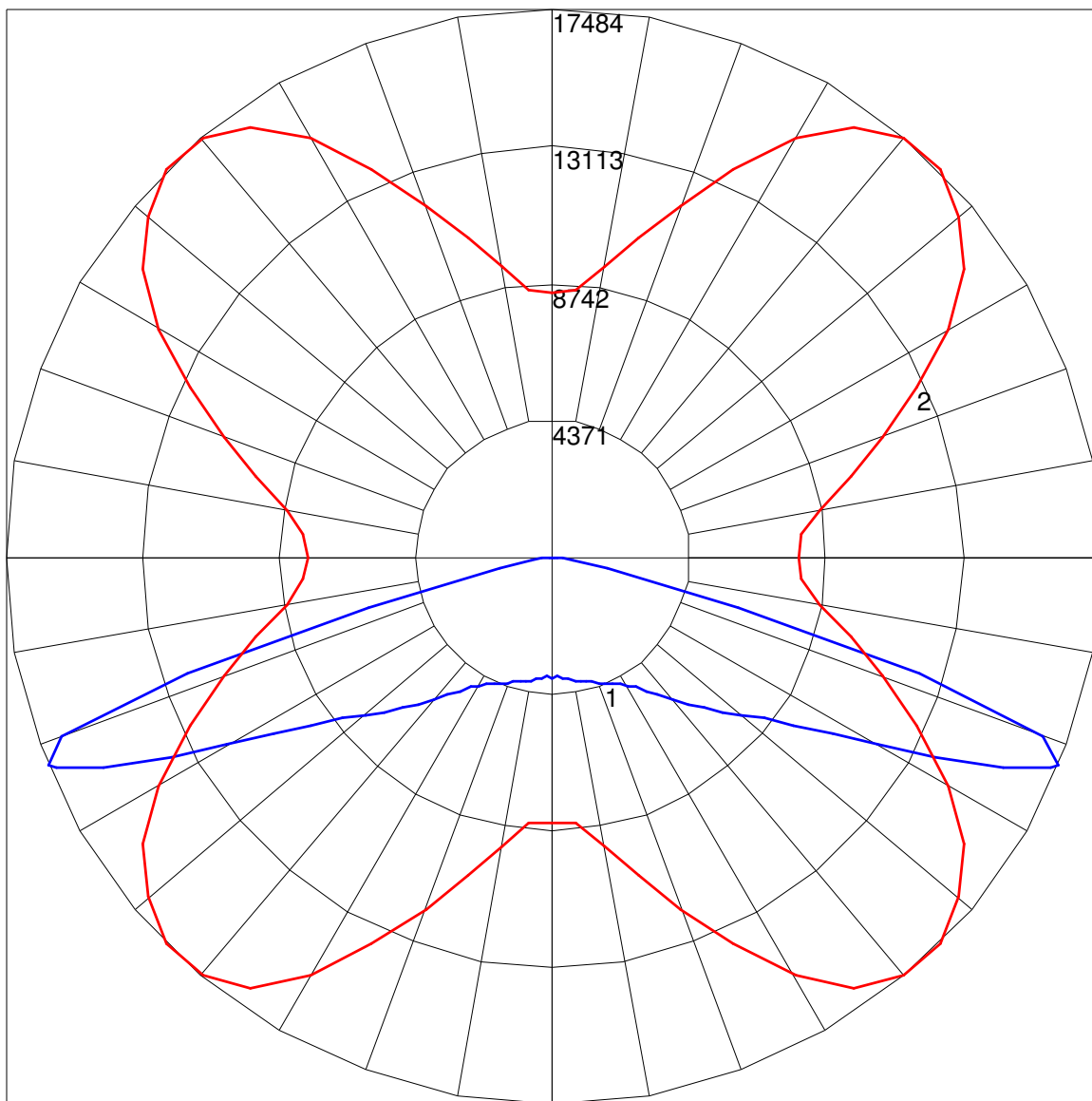
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

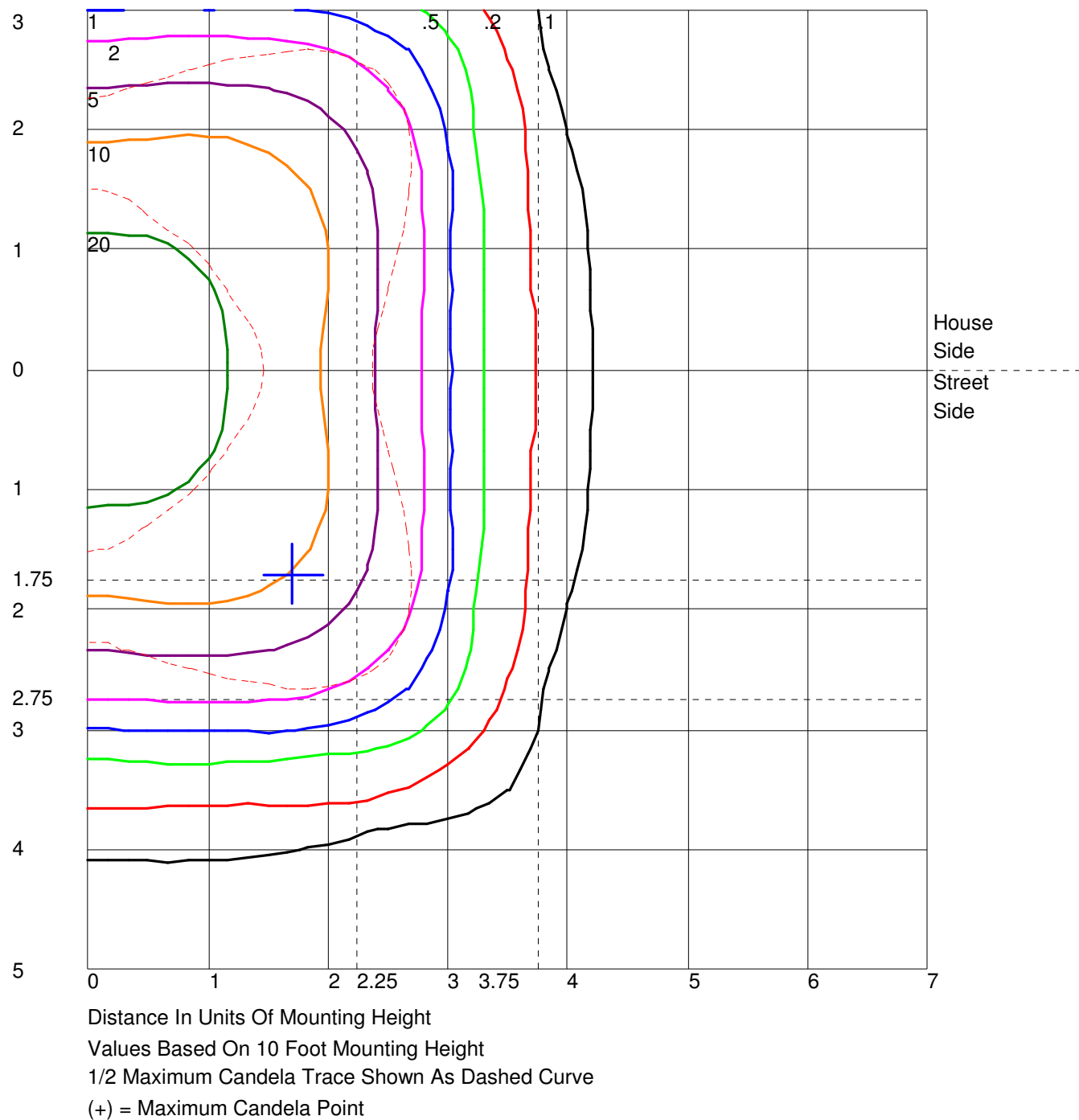
	Lumens	Percent Of Luminaire
Downward Street Side	18285.9	50.0
Downward House Side	18285.9	50.0
Downward Total	36571.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	36571.8	100.0

POLAR GRAPH

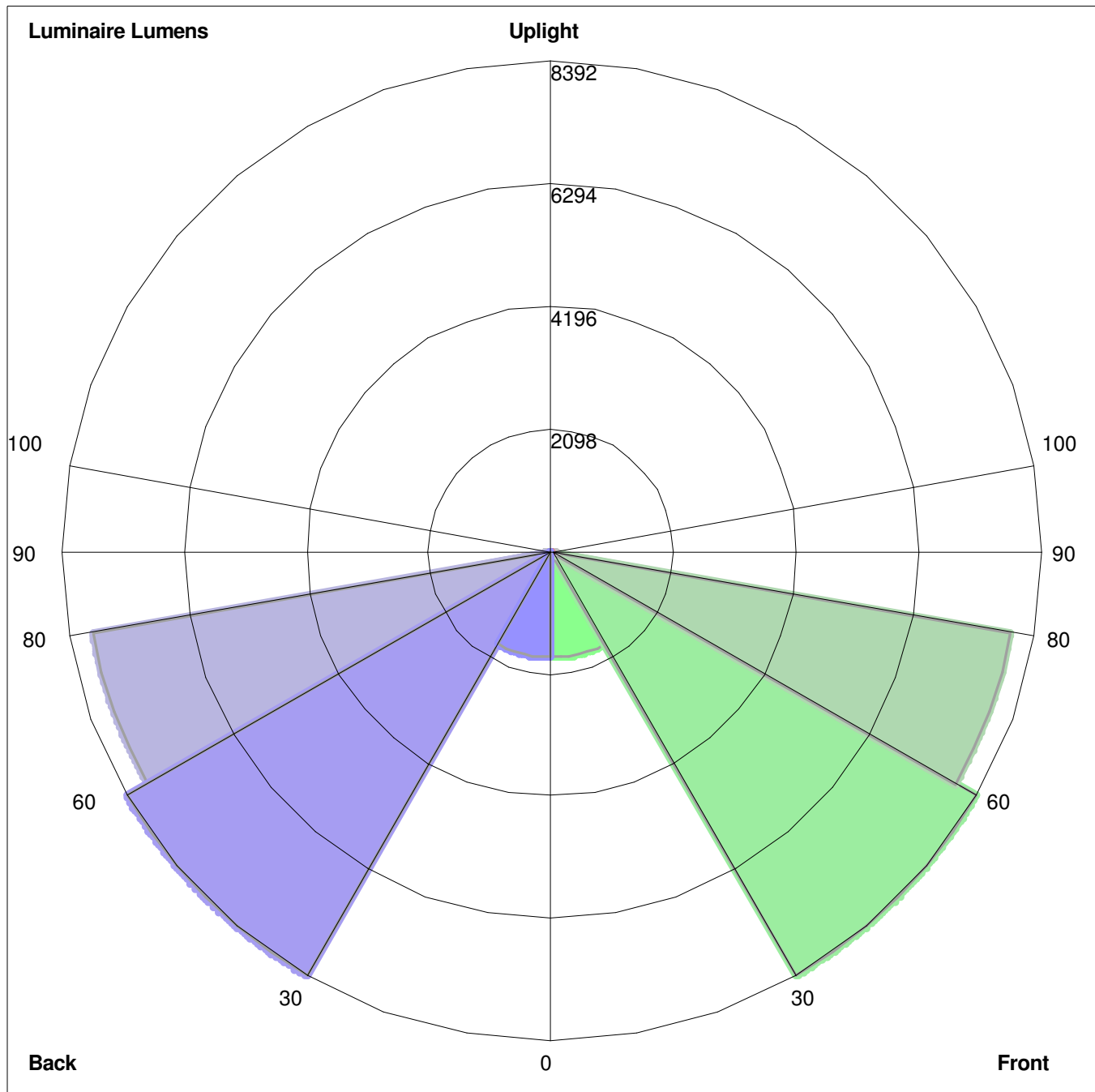


Maximum Candela = 17484.165 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=1825.2, Medium=8391.8, High= 7978.0, Very High=90.8
 Back: Low=1825.2, Medium=8391.8, High= 7978.0, Very High=90.8
 Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G4