



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-730-T2-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011765  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 02/26/2020  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L330-730-T2-F-S-xxx-DIM-UNV  
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE II  
[MORE] OPTICS, CLEAR LENS, (2) LED ARRAYS ,WITH  
[MORE] (2) ELECTRONIC DRIVERS IN A BROWN HOUSING.  
[LAMPCAT] 3000K LEDS  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor, Area, Parking  
[ \_SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29502
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	29595.414
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	29595.414
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 68V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1251.668 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-730-T2-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	5246.9	N.A.	17.8
FM - Front-Medium (30-60)	12791.7	N.A.	43.4
FH - Front-High (60-80)	5363.5	N.A.	18.2
FVH - Front-Very High (80-90)	76.2	N.A.	0.3
BL - Back-Low (0-30)	1218.7	N.A.	4.1
BM - Back-Medium (30-60)	2851.6	N.A.	9.7
BH - Back-High (60-80)	1833.1	N.A.	6.2
BVH - Back-Very High (80-90)	120.6	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	29502.3	N.A.	100.0
BUG Rating	B3-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507
2.5	8168.847	8112.802	8072.948	8016.903	7934.704	7766.570	7644.517	7456.455	7247.221	7188.685
5.0	9954.810	9967.264	9862.647	9705.721	9460.370	9081.755	8719.332	8251.046	7737.925	7599.681
7.5	11733.299	11748.245	11595.055	11333.513	10947.426	10363.314	9786.675	9044.392	8238.592	8029.358
10.0	13249.001	13227.828	13059.694	12762.034	12318.657	11598.792	10842.809	99834.002	8734.277	8454.053
12.5	13922.784	13886.667	13809.449	13667.469	13388.490	12719.689	11865.316	10646.029	9254.872	8898.676
15.0	13853.040	13830.622	13828.131	13851.794	13859.267	13587.761	12825.551	11499.156	9838.984	9403.079
17.5	13808.204	13790.768	13790.768	13805.713	13892.894	13972.602	13626.370	12388.401	10502.804	9983.455
20.0	13799.486	13799.486	13849.303	13867.985	13899.121	14053.556	14158.173	13334.936	11262.523	10662.220
22.5	13524.243	13557.870	13721.023	13879.194	13972.602	14075.974	14433.415	14169.382	12087.005	11415.712
25.0	12786.942	12823.060	13116.984	13586.515	13961.393	14175.609	14586.605	14930.346	12992.440	12245.176
27.5	11793.080	11839.162	12154.258	12823.060	13683.660	14241.617	14752.248	15533.140	13911.576	13089.584
30.0	10999.735	11030.871	111347.213	11921.361	12956.322	14120.810	14941.555	15980.253	14815.766	13950.184
32.5	10495.331	10538.921	10811.673	11288.677	12150.522	13775.822	15149.544	16341.431	15685.083	14772.175
35.0	10002.136	10044.481	10353.351	10819.146	11535.274	13263.946	15340.096	16630.373	16406.194	15458.413
37.5	9231.208	9305.935	9680.813	10227.561	11004.716	12801.888	15597.903	16876.970	16987.815	16069.925
40.0	8070.457	8146.429	8639.624	9398.097	10287.342	12159.240	16030.071	17148.477	17539.545	16723.781
42.5	6638.200	6574.683	7116.450	8061.739	9307.180	11225.159	16148.387	17984.167	18050.176	17325.329
45.0	5121.253	5077.663	5448.804	6235.923	7772.797	10139.135	15444.713	19514.814	18503.516	17855.887
47.5	4127.391	4082.555	4268.126	4649.231	5780.091	8556.179	14082.201	20722.892	19491.151	18656.706
50.0	3645.406	3611.779	3667.824	3766.213	4225.781	5970.644	12362.247	21374.258	21451.475	20654.393
52.5	3423.717	3392.581	3401.299	3347.745	3524.598	4032.738	9459.124	22071.705	24510.278	23598.615
55.0	3071.257	3038.876	3183.347	3215.729	3250.601	3429.944	6069.034	22344.456	27282.630	26483.057
57.5	2680.189	2656.526	2824.660	3098.657	3177.120	3226.938	4662.931	20823.773	28160.666	27546.663
60.0	2323.993	2309.048	2483.409	2798.506	3043.858	3052.576	4336.625	17732.588	27879.196	27697.362
62.5	1915.488	1925.452	2152.122	2474.691	2732.497	2761.143	4053.910	14236.636	27623.880	27946.450
65.0	1513.211	1528.156	1780.981	2112.268	2356.374	2356.374	3560.716	10881.418	27532.963	28298.909
67.5	1036.207	1036.207	1343.831	1716.218	1952.851	1944.133	2903.123	8014.413	28633.933	29489.551
68.0	936.572	936.572	1218.041	1632.773	1870.652	1859.443	2757.406	7532.427	28787.122	29595.414
70.0	746.019	748.510	839.427	1294.013	1548.083	1538.120	2178.276	5806.246	26847.971	27491.864
72.5	581.621	591.584	658.838	870.563	1195.623	1215.550	1533.138	3662.842	19088.874	19078.910
75.0	435.904	444.622	503.158	612.757	925.363	1017.525	1008.807	1838.271	7669.425	7242.239
77.5	303.888	317.587	364.914	443.377	716.129	912.908	594.075	897.963	1601.637	1589.183
80.0	201.761	212.970	246.597	288.942	526.822	660.084	363.669	489.458	656.347	670.047
82.5	112.090	119.562	138.244	160.662	323.815	311.360	205.498	254.070	346.233	335.024
85.0	43.590	48.572	56.045	63.517	155.680	108.353	80.954	94.654	129.526	125.790
87.5	4.982	6.227	7.473	7.473	23.663	8.718	7.473	7.473	12.454	12.454
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507	6827.507
2.5	7033.005	6910.952	6773.953	6518.638	6270.795	6031.671	5797.528	5628.148	5497.376	5400.232
5.0	7199.894	6897.252	6584.646	5989.326	5416.423	4893.338	4435.015	4082.555	3821.013	3640.424
7.5	7364.292	6902.234	6417.757	5482.431	4623.077	3879.549	3289.210	2886.932	2631.617	2497.109
10.0	7547.372	6913.443	6260.832	5009.164	3906.948	3058.803	2550.663	2319.011	2228.094	2183.258
12.5	7764.079	6954.542	6137.533	4581.977	3306.646	2528.245	2254.248	2167.067	2120.986	2089.850
15.0	8011.922	7040.478	6052.843	4194.645	2828.396	2276.666	2150.877	2092.341	2053.732	2031.314
17.5	8329.509	7183.703	6010.498	3838.449	2500.845	2169.558	2083.623	2040.032	2011.387	1986.478
20.0	8731.787	7380.483	6008.007	3534.561	2320.257	2109.777	2035.051	2005.160	1985.233	1956.588
22.5	9157.727	7623.344	6044.125	3275.510	2225.603	2066.187	2000.178	1979.006	1971.533	1937.906
25.0	9619.786	7903.568	6111.379	3058.803	2169.558	2025.087	1972.778	1956.588	1955.342	1908.016

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## CANDELA TABULATION - (Cont.)

27.5	10125.4358214.929	6201.051	2883.196	2122.231	1985.233	1940.397	1932.924	1921.715	1868.161
30.0	10647.2758530.025	6310.649	2741.216	2077.396	1941.642	1899.297	1895.561	1871.898	1819.589
32.5	11134.2428842.631	6416.512	2629.126	2036.296	1896.807	1850.725	1840.762	1799.662	1724.936
35.0	11555.2019091.719	6509.920	2535.718	1995.196	1850.725	1795.926	1756.072	1672.627	1590.428
37.5	11938.7979345.789	6607.064	2452.273	1940.397	1800.908	1711.236	1636.509	1550.574	1518.193
40.0	12388.4019669.604	6767.726	2393.738	1883.107	1728.672	1601.637	1503.247	1478.338	1459.657
42.5	12763.2799974.737	6945.824	2358.865	1828.307	1632.773	1500.756	1403.612	1428.521	1428.521
45.0	13181.74710323.4607156.304	2341.429	1768.526	1538.120	1387.421	1342.585	1381.194	1411.085	
47.5	13719.77810810.4287486.346	2355.129	1702.518	1463.393	1296.504	1289.031	1340.094	1376.212	
50.0	15147.05312131.8408439.108	2510.809	1650.209	1397.385	1271.595	1245.441	1301.486	1351.303	
52.5	17627.97114424.69710395.6963043.858	1589.183	1303.977	1266.613	1196.869	1280.313	1348.813		
55.0	19738.99416119.74211964.9513344.009	1469.620	1200.605	1150.787	1149.542	1274.086	1360.022		
57.5	19651.81315874.39011966.1973093.675	1310.204	1097.233	1067.343	1119.651	1271.595	1350.058		
60.0	19105.06415237.97011372.1212580.554	1161.996	1016.280	1010.053	1095.988	1245.441	1297.749		
62.5	18711.50514636.42210873.9452175.785	1034.961	946.535	955.253	1064.852	1183.169	1214.305		
65.0	18625.57014232.89910633.5751871.898	924.117	871.809	899.208	1010.053	1088.515	1159.506		
67.5	19128.72813880.43910318.4781566.765	821.991	790.855	843.164	935.326	1006.316	1408.594		
68.0	19148.65513729.74110225.0701494.529	803.309	774.664	829.464	917.890	1000.089	1504.493		
70.0	17640.42611827.9538897.430	1252.914	731.074	712.392	778.401	844.409	1079.797	1894.316	
72.5	13133.1757840.051	5807.491	861.845	646.384	641.402	703.674	747.265	1414.821	2254.248
75.0	4762.566	3243.128	2459.746	599.057	555.467	577.885	622.720	651.366	1723.690
77.5	1135.842	881.772	655.102	409.750	435.904	486.967	534.294	579.130	1695.045
80.0	516.858	435.904	352.460	277.733	317.587	387.332	428.432	483.231	1251.668
82.5	286.451	260.297	217.952	170.625	212.970	271.506	301.397	332.533	723.601
85.0	107.108	98.390	90.917	75.972	108.353	136.999	153.189	165.644	353.705
87.5	8.718	6.227	8.718	8.718	21.172	29.891	36.118	44.836	108.353
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

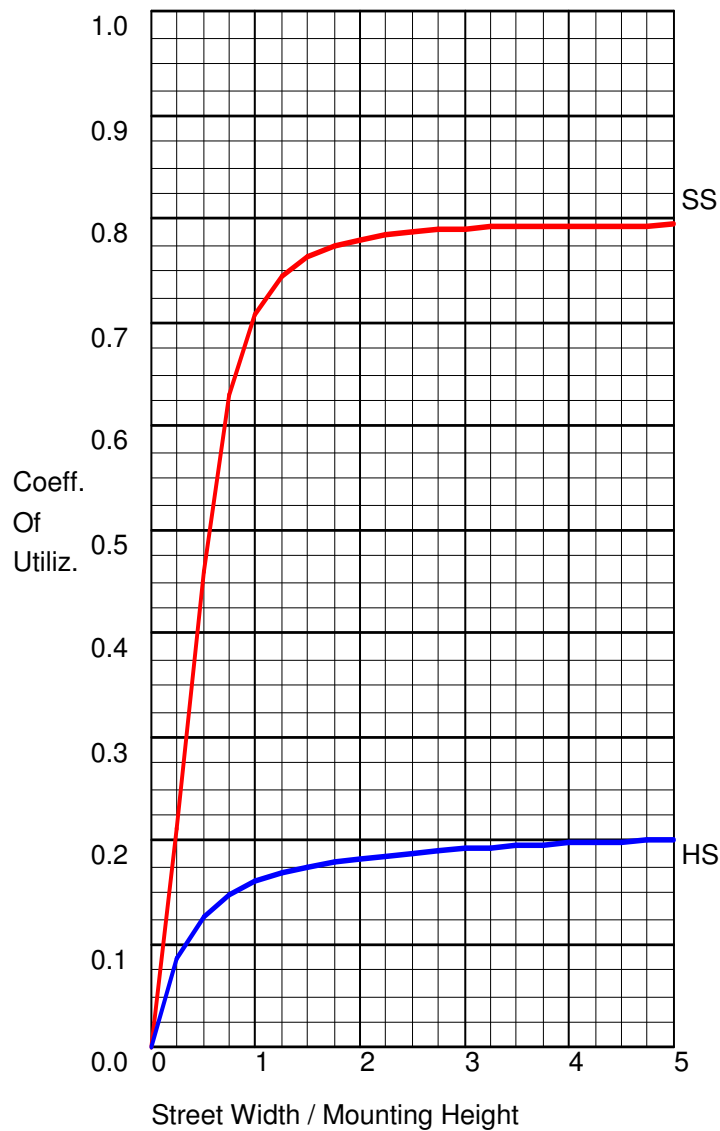
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	6827.507	6827.507
2.5	5351.660	5406.459
5.0	3547.016	3585.625
7.5	2446.046	2462.237
10.0	2168.313	2160.840
12.5	2078.641	2073.659
15.0	2017.614	2015.123
17.5	1972.778	1969.042
20.0	1939.152	1935.415
22.5	1912.997	1906.770
25.0	1874.389	1869.407
27.5	1829.553	1830.798
30.0	1768.526	1763.544
32.5	1650.209	1642.737
35.0	1554.310	1555.556
37.5	1506.984	1520.683
40.0	1450.939	1462.148
42.5	1392.403	1397.385
45.0	1376.212	1352.549
47.5	1341.340	1328.886
50.0	1317.677	1332.622
52.5	1337.604	1357.531
55.0	1363.758	1383.685
57.5	1362.512	1381.194
60.0	1318.922	1335.113

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-730-T2-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	1247.932	1269.104
<b>65.0</b>	1255.404	1303.977
<b>67.5</b>	1563.028	1632.773
<b>68.0</b>	1635.264	1705.009
<b>70.0</b>	1865.671	1934.170
<b>72.5</b>	1997.687	2049.996
<b>75.0</b>	1733.654	1734.899
<b>77.5</b>	1231.741	1185.660
<b>80.0</b>	814.518	763.455
<b>82.5</b>	490.704	464.549
<b>85.0</b>	171.871	136.999
<b>87.5</b>	26.154	7.473
<b>90.0</b>	0.000	0.000

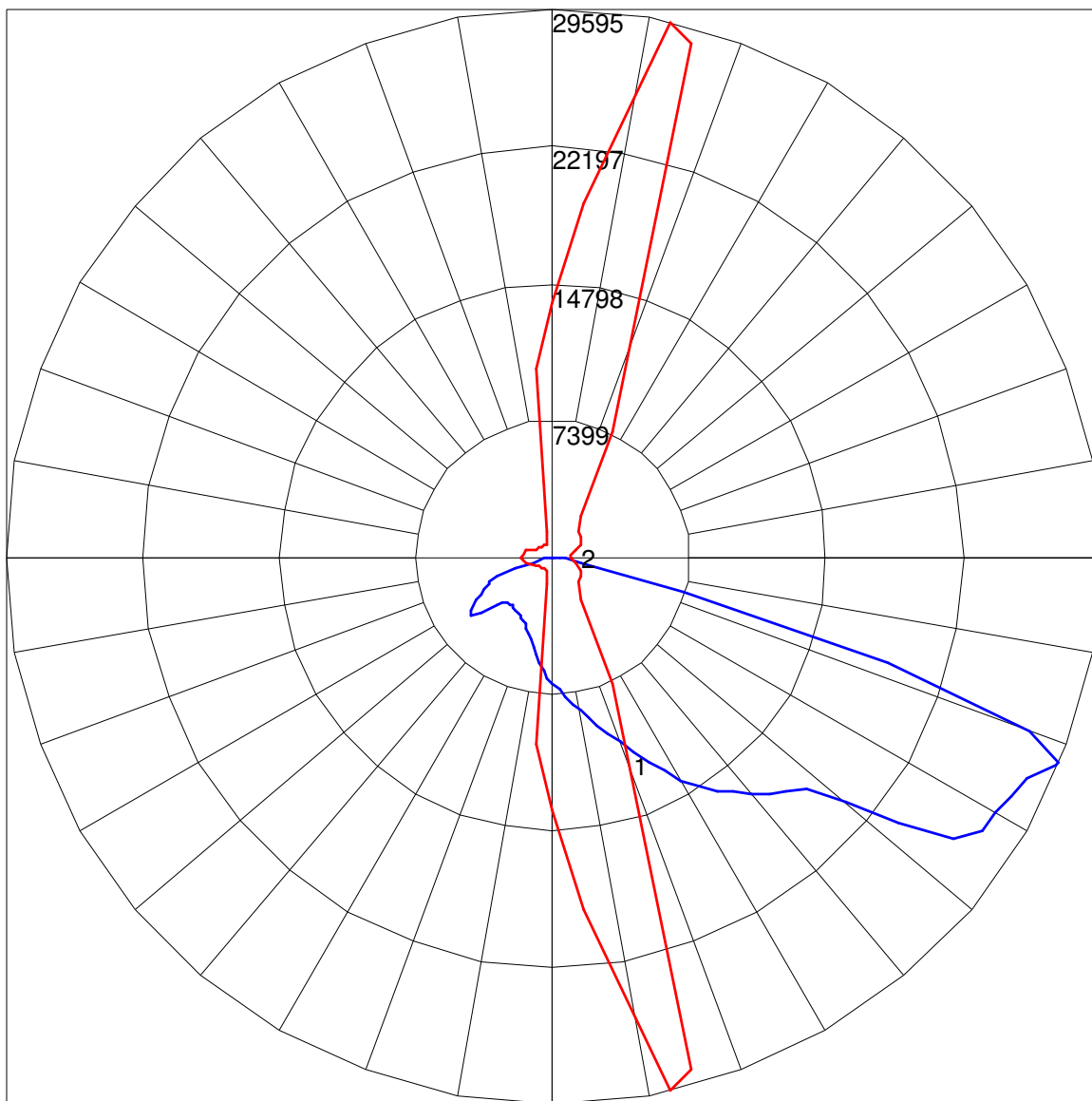
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

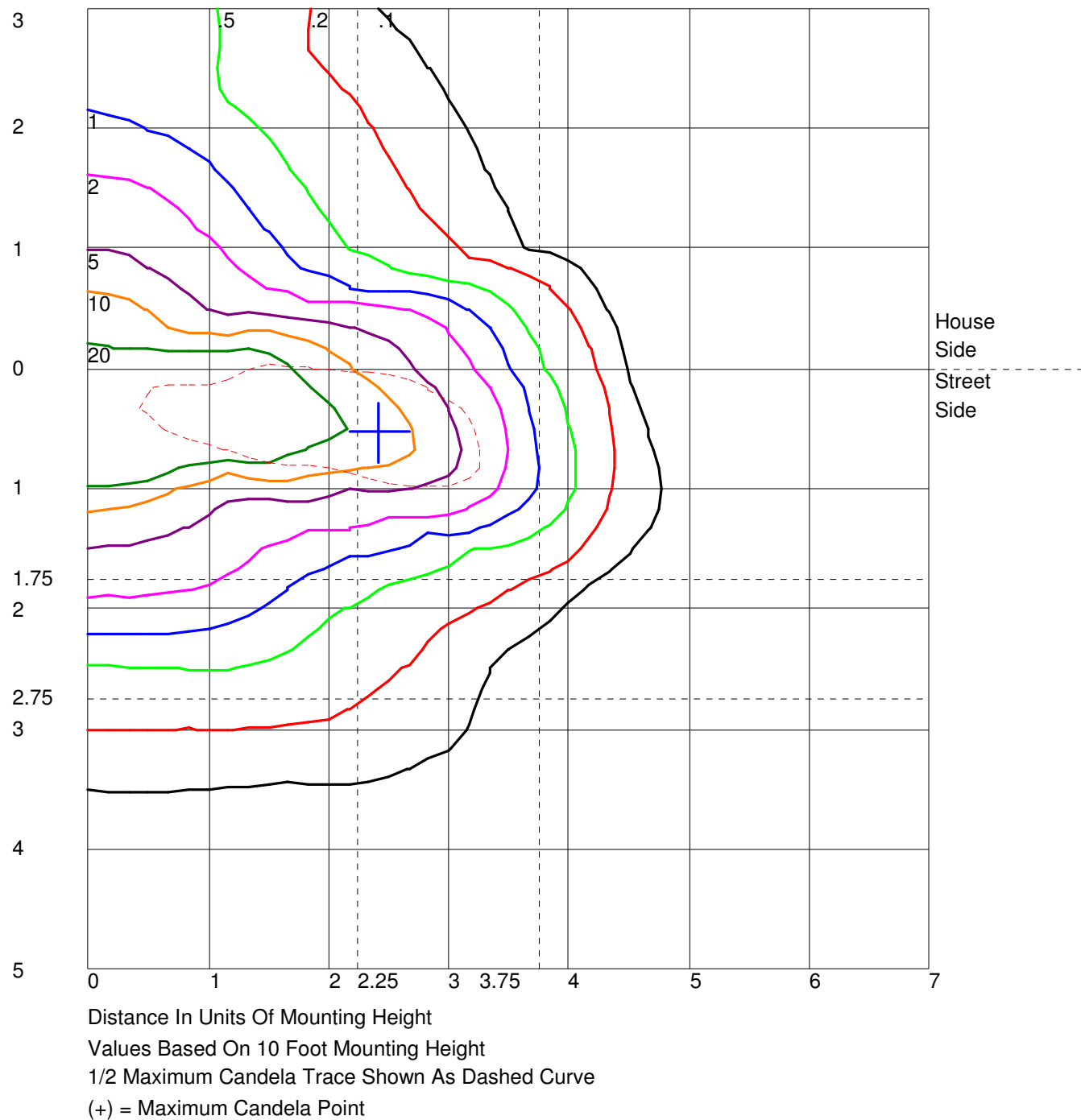
	Lumens	Percent Of Luminaire
Downward Street Side	23478.3	79.6
Downward House Side	6024.0	20.4
Downward Total	29502.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29502.3	100.0

POLAR GRAPH



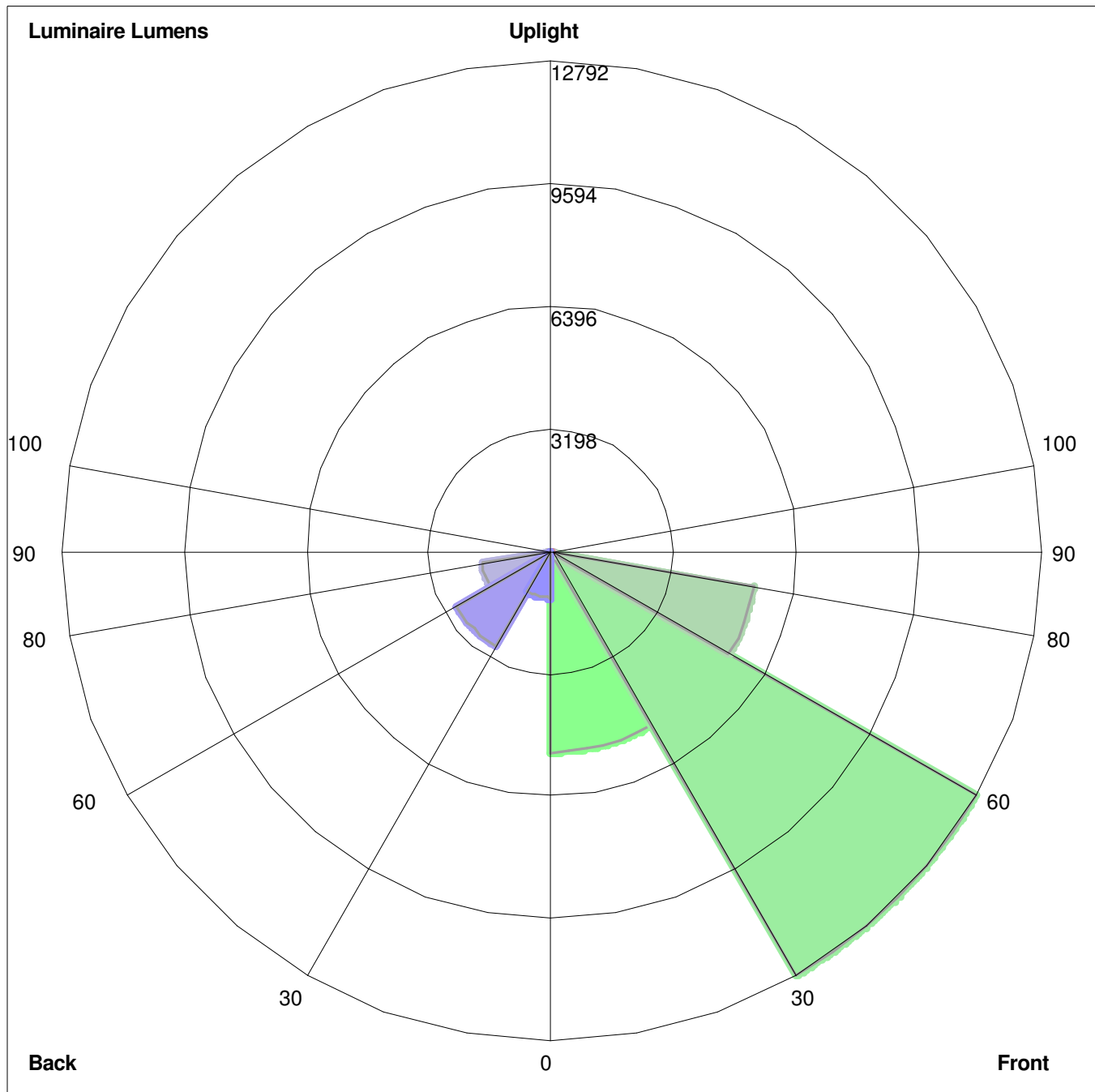
Maximum Candela = 29595.414 Located At Horizontal Angle = 77.5, Vertical Angle = 68  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=5246.9, Medium=12791.7, High=5363.5, Very High=76.2  
Back: Low=1218.7, Medium=2851.6, High=1833.1, Very High=120.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3