



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L160-730-T5-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011764  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA1-L160-730-T5-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE  
[MORE] VSM OPTICS AND CLEAR LENS  
[LAMP] LED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor, Architectural, Area, Parking, Site  
[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	15710
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	131
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7415.526
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	7415.526
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	355.827 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L160-730-T5-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	806.3	N.A.	5.1
FM - Front-Medium (30-60)	3667.6	N.A.	23.3
FH - Front-High (60-80)	3327.7	N.A.	21.2
FVH - Front-Very High (80-90)	53.2	N.A.	0.3
BL - Back-Low (0-30)	806.3	N.A.	5.1
BM - Back-Medium (30-60)	3667.6	N.A.	23.3
BH - Back-High (60-80)	3327.7	N.A.	21.2
BVH - Back-Very High (80-90)	53.2	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	15709.6	N.A.	100.0
BUG Rating	B4-U0-G2		

**IES ROAD REPORT**  
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**CANDELA TABULATION**

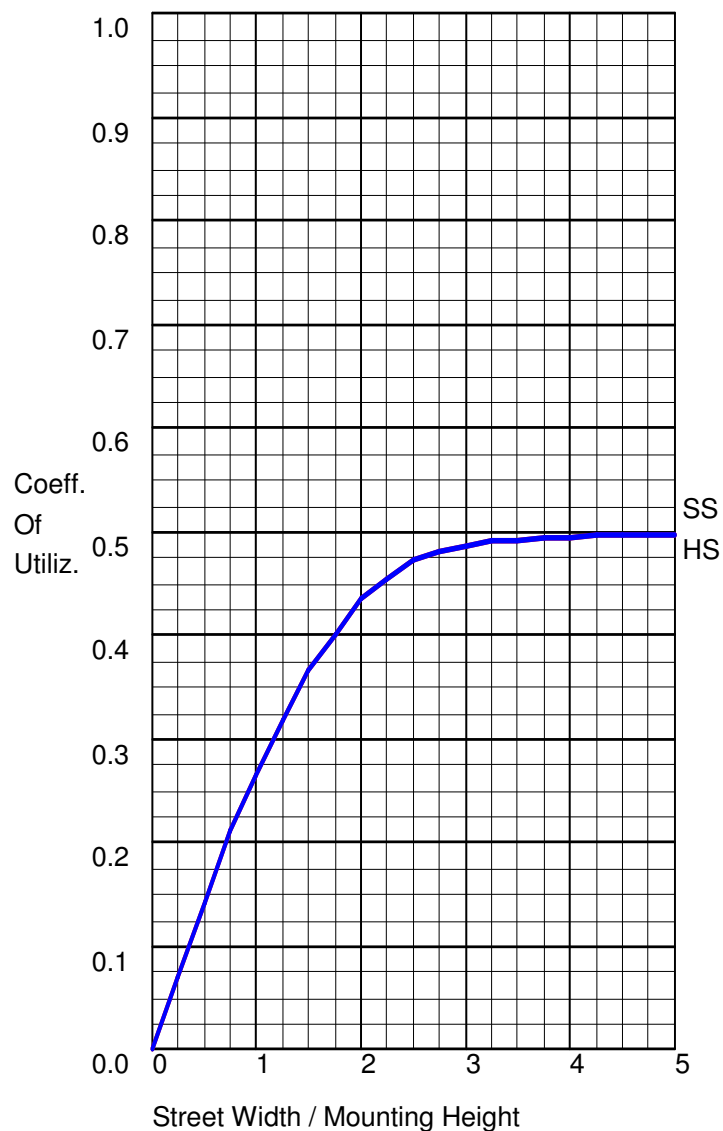
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067
2.5	1716.845	1718.403	1718.403	1716.845	1717.624	1716.845	1716.845	1716.067	1716.845	1717.624
5.0	1728.525	1731.639	1730.860	1729.303	1730.082	1729.303	1728.525	1726.967	1728.525	1730.082
7.5	1749.547	1753.440	1753.440	1751.104	1751.104	1751.104	1751.883	1750.326	1751.104	1754.998
10.0	1775.242	1778.356	1779.135	1776.799	1777.577	1778.356	1779.135	1779.135	1780.692	1783.806
12.5	1800.157	1804.050	1805.607	1803.272	1804.050	1806.386	1807.943	1808.722	1810.279	1812.615
15.0	1829.745	1832.859	1832.080	1832.859	1832.080	1833.638	1834.416	1836.752	1839.088	1839.867
17.5	1861.668	1865.561	1864.004	1864.782	1862.446	1864.004	1863.225	1864.004	1866.339	1867.118
20.0	1901.377	1902.934	1900.598	1900.598	1897.484	1895.927	1895.927	1895.927	1895.927	1896.705
22.5	1940.308	1941.086	1938.751	1937.193	1934.079	1932.522	1931.743	1929.407	1928.629	1928.629
25.0	1986.246	1987.025	1983.910	1981.574	1976.124	1973.788	1972.231	1969.117	1968.338	1967.559
27.5	2047.757	2044.642	2039.971	2036.856	2029.070	2026.734	2022.841	2018.169	2017.391	2017.391
30.0	2117.053	2113.160	2109.267	2106.931	2097.588	2094.474	2087.466	2081.237	2082.016	2082.794
32.5	2200.365	2197.251	2191.800	2193.358	2184.014	2182.457	2173.892	2165.327	2161.434	2162.213
35.0	2299.249	2296.135	2294.578	2296.135	2287.570	2286.791	2282.120	2272.776	2270.440	2267.326
37.5	2416.041	2414.484	2416.041	2419.156	2414.484	2417.599	2416.820	2409.034	2404.362	2399.691
40.0	2544.513	2549.963	2550.742	2562.421	2563.978	2574.100	2576.436	2573.322	2575.657	2571.764
42.5	2686.999	2692.450	2696.343	2713.472	2726.709	2749.289	2755.517	2762.525	2764.861	2775.761
45.0	2836.493	2839.608	2846.615	2871.531	2893.332	2930.706	2946.278	2959.514	2970.415	2982.873
47.5	2998.445	3004.674	3005.453	3042.048	3080.200	3126.138	3140.932	3161.954	3180.641	3193.099
50.0	3189.984	3195.435	3202.442	3244.487	3296.655	3363.616	3379.966	3397.875	3415.783	3432.912
52.5	3422.012	3423.569	3432.912	3499.873	3567.613	3662.604	3680.512	3704.649	3715.549	3736.572
55.0	3671.168	3678.176	3710.099	3812.098	3925.775	4037.896	4083.055	4105.635	4118.872	4146.902
57.5	3939.790	3948.355	4004.415	4157.802	4339.998	4508.958	4588.376	4609.399	4622.635	4658.452
60.0	4202.962	4225.542	4328.319	4537.766	4805.610	5050.874	5187.910	5223.726	5222.169	5240.856
62.5	4305.739	4353.235	4540.102	4837.533	5218.276	5604.469	5856.740	5934.601	5943.166	5947.059
65.0	4009.087	4048.796	4332.212	4723.855	5257.985	5840.389	6351.160	6601.095	6760.711	6820.665
67.5	3207.114	3211.786	3556.712	4003.637	4641.322	5387.235	6168.186	6788.742	7223.987	7415.526
70.0	1921.621	1906.049	2202.701	2596.680	3207.893	4010.644	4981.577	5890.220	6525.570	6807.428
72.5	906.308	889.178	1035.558	1207.631	1600.832	2061.772	2873.088	3738.908	4389.051	4730.863
75.0	473.398	469.505	508.435	544.252	650.143	772.386	1084.610	1529.199	1937.972	2226.059
77.5	290.423	293.538	318.453	338.697	373.735	402.544	464.833	552.038	662.601	729.562
80.0	195.432	195.432	204.776	224.241	249.935	264.729	294.316	319.232	346.484	355.827
82.5	122.243	121.464	125.357	134.700	155.723	165.066	180.639	191.539	201.661	197.768
85.0	44.381	45.160	52.946	60.732	76.304	79.419	87.205	91.877	89.541	86.426
87.5	7.008	7.786	10.122	13.236	17.908	19.465	24.137	27.252	28.030	28.030
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>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	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067	1716.067
2.5	1716.845	1716.067	1717.624	1717.624	1718.403	1718.403	1716.845	1717.624	1717.624
5.0	1728.525	1728.525	1730.082	1730.082	1731.639	1732.418	1730.860	1732.418	1734.754
7.5	1752.662	1751.883	1753.440	1754.219	1755.776	1756.555	1755.776	1758.112	1762.005
10.0	1782.249	1781.470	1783.028	1783.028	1784.585	1785.364	1784.585	1787.699	1793.150
12.5	1811.836	1811.058	1811.836	1812.615	1814.172	1812.615	1813.394	1817.287	1825.073
15.0	1839.867	1838.309	1838.309	1839.088	1840.645	1840.645	1842.202	1847.653	1856.217
17.5	1866.339	1864.782	1867.118	1867.118	1868.675	1871.790	1874.126	1881.133	1891.255
20.0	1895.148	1894.370	1897.484	1898.263	1902.934	1906.827	1909.942	1919.285	1930.186
22.5	1926.293	1925.514	1930.964	1934.079	1940.308	1944.980	1951.208	1961.330	1970.674
25.0	1966.002	1966.002	1972.231	1976.903	1984.689	1991.696	1997.925	2008.826	2018.948
27.5	2017.391	2017.391	2022.841	2030.627	2037.635	2044.642	2052.428	2060.993	2070.336

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L160-730-T5-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>30.0</b>	2082.794	2083.573	2088.245	2095.252	2103.038	2110.046	2117.832	2124.840	2131.847
<b>32.5</b>	2163.770	2166.885	2173.114	2180.900	2187.129	2191.800	2197.251	2201.922	2208.151
<b>35.0</b>	2270.440	2273.555	2281.341	2290.684	2293.020	2298.471	2299.249	2306.257	2310.150
<b>37.5</b>	2405.141	2405.919	2414.484	2421.492	2426.163	2426.163	2426.163	2426.942	2433.950
<b>40.0</b>	2574.100	2570.207	2579.551	2583.444	2583.444	2569.429	2565.535	2564.757	2570.207
<b>42.5</b>	2769.532	2761.746	2764.861	2760.968	2746.953	2720.480	2709.579	2709.579	2719.701
<b>45.0</b>	2980.537	2963.408	2955.621	2941.606	2914.355	2880.874	2865.302	2859.073	2877.760
<b>47.5</b>	3190.763	3175.191	3157.283	3142.489	3099.665	3060.734	3042.826	3032.704	3047.498
<b>50.0</b>	3432.912	3425.126	3406.439	3388.531	3329.356	3274.853	3249.938	3235.923	3251.495
<b>52.5</b>	3747.473	3752.923	3741.244	3691.412	3606.543	3527.125	3485.079	3466.393	3477.293
<b>55.0</b>	4171.039	4185.833	4161.696	4072.155	3953.805	3831.563	3760.709	3724.114	3728.786
<b>57.5</b>	4688.818	4703.611	4674.024	4533.095	4388.272	4200.626	4085.391	4016.873	4005.194
<b>60.0</b>	5289.908	5303.145	5284.458	5119.392	4923.181	4656.116	4466.134	4354.792	4333.769
<b>62.5</b>	5985.990	6025.699	6005.455	5768.756	5426.944	5041.530	4733.199	4537.766	4477.035
<b>65.0</b>	6833.901	6798.085	6581.630	6080.202	5501.691	4947.318	4536.988	4241.893	4135.223
<b>67.5</b>	7334.550	6977.166	6404.885	5639.506	4906.051	4238.778	3735.015	3397.096	3258.503
<b>70.0</b>	6672.728	6094.996	5236.184	4297.953	3450.820	2796.784	2272.776	2008.826	1892.034
<b>72.5</b>	4617.964	3952.248	2961.072	2050.093	1474.696	1216.975	1007.527	919.544	876.720
<b>75.0</b>	2012.719	1496.497	977.161	766.157	650.143	593.304	534.908	510.771	496.756
<b>77.5</b>	630.678	541.916	473.398	432.910	397.093	369.842	341.812	317.675	307.553
<b>80.0</b>	351.155	324.682	302.881	281.859	263.950	243.706	214.898	204.776	200.883
<b>82.5</b>	203.218	194.654	185.310	172.852	161.952	145.601	128.471	126.914	129.250
<b>85.0</b>	88.762	89.541	86.426	80.976	77.083	67.739	61.511	60.732	60.732
<b>87.5</b>	28.809	28.030	24.916	23.358	21.801	20.244	17.130	17.908	17.130
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

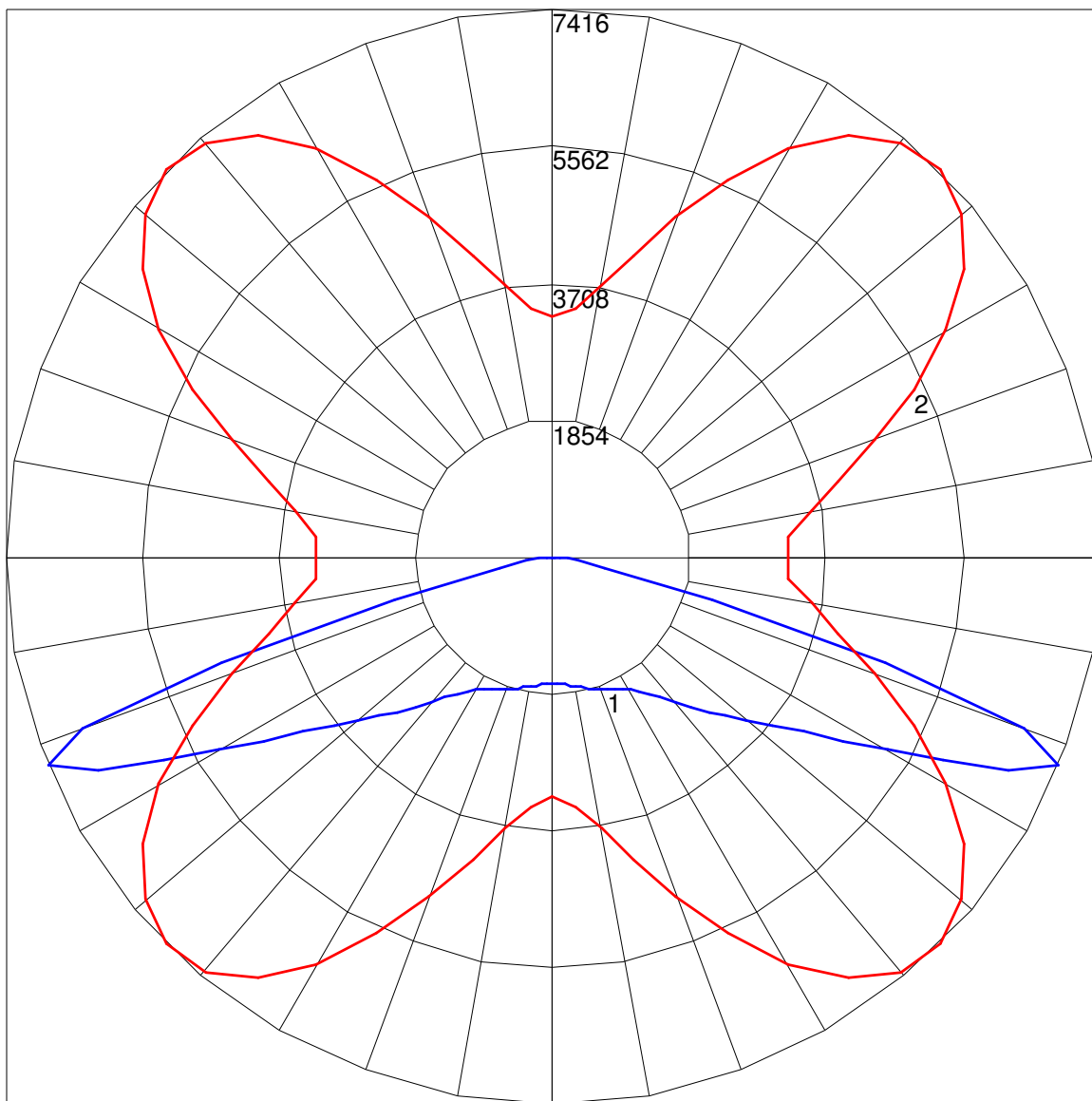
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

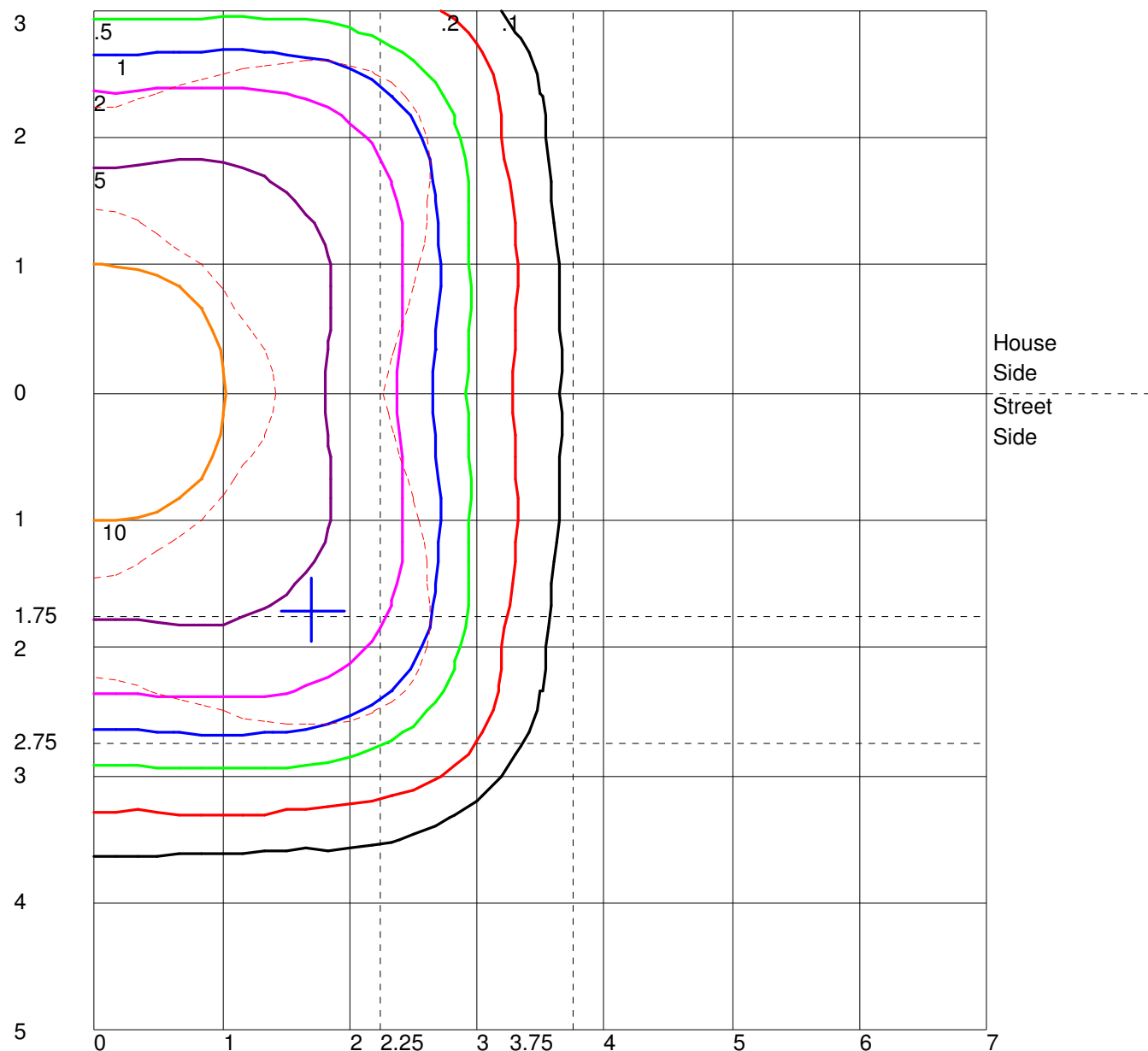
	Lumens	Percent Of Luminaire
Downward Street Side	7854.8	50.0
Downward House Side	7854.8	50.0
Downward Total	15709.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	15709.6	100.0

POLAR GRAPH

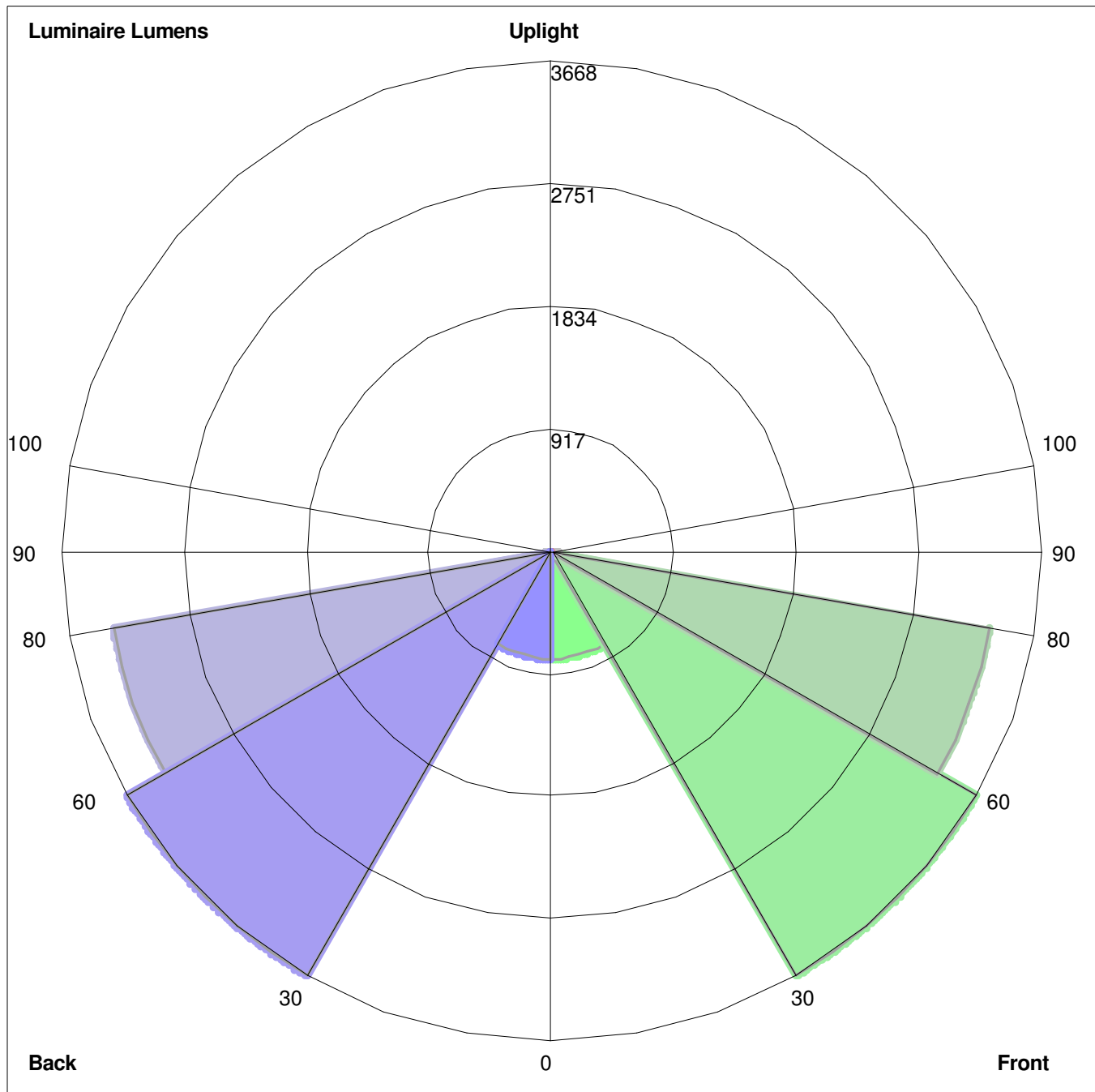


Maximum Candela = 7415.526 Located At Horizontal Angle = 45, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=806.3, Medium=3667.6, High=3327.7, Very High=53.2  
Back: Low=806.3, Medium=3667.6, High=3327.7, Very High=53.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2