



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-730-T3-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011772  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 02/26/2020  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L280-730-T3-F-S-xxx-DIM-UNV  
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE III  
[MORE] OPTICS, CLEAR LENS, (2) LED ARRAYS  
[MORE] AND (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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	24265
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	17925.128
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	17925.128
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4161.572 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-730-T3-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2411.9	N.A.	9.9
FM - Front-Medium (30-60)	8435.7	N.A.	34.8
FH - Front-High (60-80)	5977.5	N.A.	24.6
FVH - Front-Very High (80-90)	200.0	N.A.	0.8
BL - Back-Low (0-30)	1298.6	N.A.	5.4
BM - Back-Medium (30-60)	2990.1	N.A.	12.3
BH - Back-High (60-80)	2677.1	N.A.	11.0
BVH - Back-Very High (80-90)	274.2	N.A.	1.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	24265.1	N.A.	100.0
BUG Rating	B4-U0-G4		

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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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412
2.5	5225.787	5216.882	5216.882	5225.787	5200.852	5179.478	5176.807	5159.886	5145.637	5116.249
5.0	5438.630	5443.083	5438.630	5431.506	5399.446	5364.714	5346.013	5290.798	5272.987	5199.071
7.5	5474.253	5483.158	5482.268	5488.502	5489.392	5484.939	5476.034	5412.804	5395.884	5286.345
10.0	5440.412	5442.193	5440.412	5452.879	5474.253	5508.094	5540.154	5511.656	5500.079	5382.525
12.5	5429.725	5429.725	5418.148	5427.944	5453.770	5498.298	5557.075	5573.105	5577.557	5481.377
15.0	5476.034	5467.128	5447.536	5437.740	5458.223	5504.532	5569.542	5619.413	5630.100	5586.463
17.5	5565.090	5566.871	5541.044	5510.766	5506.313	5541.044	5606.055	5676.409	5687.096	5696.001
20.0	5685.315	5690.658	5667.504	5632.772	5617.632	5621.195	5680.862	5760.121	5776.151	5821.570
22.5	5781.495	5798.415	5781.495	5772.589	5762.793	5761.012	5806.430	5873.222	5898.158	5950.701
25.0	5862.535	5864.317	5858.083	5879.456	5920.422	5931.999	5963.168	6005.025	6035.304	6075.379
27.5	5940.904	5926.656	5906.173	5945.357	6050.443	6127.921	6146.623	6159.091	6172.449	6195.604
30.0	6009.477	5998.791	5972.965	5975.636	6116.344	6330.078	6367.481	6345.217	6332.749	6322.953
32.5	6019.273	6011.258	6021.055	6048.662	6165.325	6519.766	6615.947	6536.687	6516.204	6432.492
35.0	6003.243	6001.462	6037.085	6125.250	6319.391	6696.987	6896.472	6785.152	6721.923	6539.359
37.5	5965.840	5961.387	6022.836	6231.226	6582.996	6929.423	7214.401	7054.101	6946.343	6611.494
40.0	5896.377	5912.407	6008.587	6420.915	7170.763	7668.585	7647.211	7343.531	7206.386	6689.863
42.5	5865.207	5883.909	5972.965	6382.621	7326.611	8428.230	8552.017	7935.752	7665.913	6814.541
45.0	6144.842	6149.295	6106.548	6374.606	7193.027	8396.170	9265.353	8920.708	8624.152	7204.605
47.5	6742.406	6733.500	6698.768	6757.545	7222.416	8165.515	9339.269	9550.331	9446.136	8162.844
50.0	6715.689	6696.987	6898.253	7286.536	7648.992	8108.520	9031.137	9524.505	9494.226	8609.013
52.5	6227.664	6239.241	6631.086	7304.347	8165.515	8535.096	8869.946	9194.999	9220.825	8421.105
55.0	4910.530	4973.760	5789.510	7142.266	8570.719	9666.994	9349.956	9305.428	9354.409	8600.107
57.5	3620.113	3692.249	4522.247	6358.576	8690.053	11192.518	10684.010	99982.251	9926.146	9007.982
60.0	2857.797	2904.996	3399.255	4617.537	7867.179	12469.576	13367.258	11242.389	11036.671	9741.801
62.5	2213.924	2199.675	2457.046	3016.316	5958.716	12005.596	16481.535	13442.065	12816.003	10864.793
65.0	1556.693	1570.942	1721.446	1982.379	3546.197	10716.961	117047.929	16338.155	15331.826	12300.371
67.5	1343.850	1351.865	1532.648	1604.783	1873.732	7365.795	15497.470	17925.128	17313.315	13327.183
70.0	1072.230	1047.295	1289.526	1400.846	1384.816	3293.279	12775.037	16658.756	17100.472	13737.729
72.5	762.317	735.600	828.218	1179.988	1065.106	1708.979	8188.670	13331.635	14219.521	12848.063
75.0	581.534	574.409	590.439	902.134	855.825	1037.499	3548.869	8931.394	9839.762	9173.626
77.5	389.173	385.611	400.751	594.892	716.898	692.853	1442.702	4190.960	5128.717	5976.527
80.0	244.013	236.888	259.152	370.472	618.046	445.278	699.978	1546.007	2433.001	4161.572
82.5	127.350	128.240	143.380	215.515	422.124	250.246	355.332	563.722	829.108	2115.072
85.0	49.871	49.871	57.886	93.508	151.395	99.742	135.365	179.892	234.216	485.353
87.5	6.234	7.124	8.906	14.249	19.592	14.249	22.264	22.264	29.388	32.060
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	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412	5025.412
2.5	5070.830	5066.378	5035.208	4988.899	4932.794	4871.346	4837.505	4799.211	4738.653	4723.513
5.0	5100.219	5061.034	5000.477	4890.047	4768.932	4631.786	4529.372	4429.630	4339.683	4283.578
7.5	5144.747	5073.502	4981.775	4800.992	4597.945	4361.947	4135.746	3904.201	3669.985	3498.107
10.0	5204.414	5094.876	4977.322	4719.061	4410.037	4012.849	3535.511	3083.108	2729.557	2561.241
12.5	5273.877	5128.717	4984.446	4637.129	4187.398	3512.356	2823.065	2473.967	2355.523	2322.572
15.0	5358.480	5181.260	5005.820	4558.760	3894.405	2941.509	2446.360	2339.493	2306.542	2291.403
17.5	5462.675	5252.504	5043.223	4475.048	3515.918	2554.117	2365.319	2316.338	2290.512	2279.825
20.0	5580.229	5346.013	5097.547	4386.883	3100.028	2406.285	2339.493	2303.870	2274.482	2253.109
22.5	5710.250	5451.098	5157.214	4281.797	2764.288	2369.772	2320.791	2278.935	2237.969	2199.675
25.0	5837.600	5552.622	5210.648	4144.651	2558.570	2351.070	2290.512	2229.064	2177.411	2134.665
27.5	5967.621	5660.379	5260.519	3973.664	2459.718	2328.806	2239.750	2172.068	2117.744	2066.982

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**CANDELA TABULATION - (Cont.)**

30.0	6095.861	5770.808	5316.624	3781.304	2415.190	2292.293	2180.974	2103.495	2050.062	2004.643
32.5	6208.962	5866.098	5366.495	3574.695	2380.458	2242.422	2118.635	2032.251	1985.051	1948.538
35.0	6290.003	5926.656	5397.665	3369.867	2335.931	2181.864	2054.515	1959.225	1920.040	1882.637
37.5	6313.157	5937.342	5397.665	3190.865	2284.278	2115.072	1990.394	1888.871	1851.468	1811.393
40.0	6338.093	5949.810	5390.540	3052.829	2235.298	2050.952	1930.727	1825.641	1785.566	1736.586
42.5	6370.153	5951.591	5384.306	2942.400	2198.785	1993.957	1870.169	1769.536	1707.197	1657.326
45.0	6557.170	6110.110	5504.532	2895.200	2161.381	1945.867	1825.641	1719.665	1624.376	1576.286
47.5	7198.371	6635.539	5994.338	3135.651	2223.720	1918.259	1797.144	1693.839	1570.942	1530.867
50.0	7552.812	6999.777	6325.625	3498.107	2566.585	2006.424	1797.144	1714.322	1603.893	1640.406
52.5	7363.124	6829.680	6154.638	3306.637	2695.715	2313.667	1850.577	1741.929	1752.616	1991.285
55.0	7561.718	7051.429	6438.726	3360.961	2379.568	2209.471	2050.952	1751.725	1924.493	2385.802
57.5	7933.971	7476.224	6986.418	3936.261	2329.697	1916.478	1869.279	1773.099	2008.206	2588.849
60.0	8478.991	7970.483	7705.098	4828.599	2376.006	1802.487	1628.828	1618.142	1972.583	2482.872
62.5	9145.128	8552.908	8385.483	5755.669	2515.823	1718.775	1497.917	1493.464	1871.950	2215.705
65.0	9813.936	8899.334	8654.431	6218.758	2809.707	1648.421	1383.925	1391.940	1750.835	1949.429
67.5	10064.183	9006.201	8779.109	6389.745	3153.462	1563.818	1267.262	1278.840	1591.425	1670.685
70.0	9976.017	9052.510	8967.907	6311.376	3476.734	1464.075	1129.226	1136.350	1397.284	1455.170
72.5	9031.137	8377.468	8377.468	6010.368	3696.701	1377.691	976.050	984.065	1200.471	1225.406
75.0	6133.265	5635.444	5711.141	4942.590	3676.219	1312.681	821.984	833.561	1002.767	966.254
77.5	3787.538	3401.927	3444.674	3973.664	3460.704	1248.561	660.793	672.370	791.705	558.379
80.0	2905.887	2517.604	2606.660	3111.606	3104.481	1166.629	487.135	502.274	571.737	268.058
82.5	1360.771	1235.202	1379.473	1876.403	2452.593	1025.921	263.605	322.382	321.491	169.206
85.0	184.345	175.440	242.231	642.091	1406.189	664.355	115.772	129.131	102.414	80.150
87.5	21.373	18.702	21.373	44.528	364.238	229.764	24.936	26.717	20.483	16.030
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

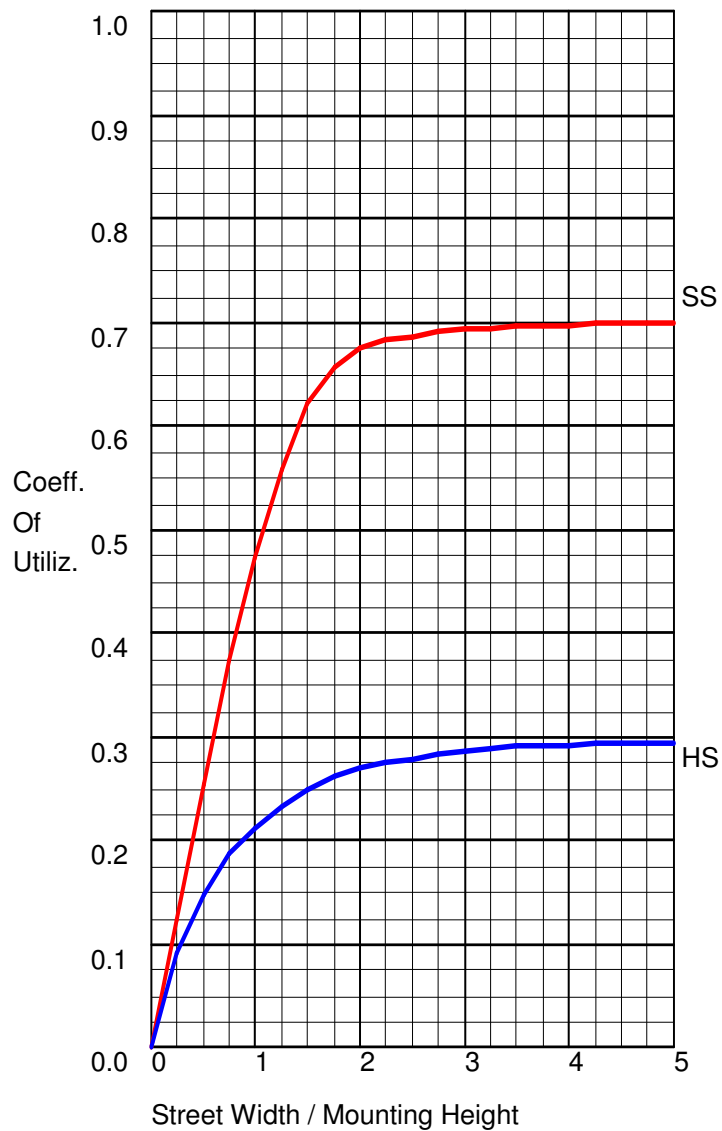
**Vert. Angles**      **Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	5025.412	5025.412
2.5	4744.887	4748.449
5.0	4261.314	4266.658
7.5	3422.410	3423.300
10.0	2505.136	2500.684
12.5	2312.776	2308.323
15.0	2286.950	2286.059
17.5	2275.373	2273.592
20.0	2245.984	2242.422
22.5	2187.208	2181.864
25.0	2113.291	2115.072
27.5	2035.813	2037.594
30.0	1969.021	1969.912
32.5	1905.792	1905.792
35.0	1843.453	1842.562
37.5	1781.114	1773.989
40.0	1705.416	1698.292
42.5	1619.923	1613.689
45.0	1546.007	1542.444
47.5	1505.932	1505.932
50.0	1652.873	1674.247
52.5	2094.590	2129.321
55.0	2595.083	2635.158
57.5	2919.245	2992.271
60.0	2731.338	2742.024
62.5	2306.542	2278.935
65.0	1912.916	1915.588

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-730-T3-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1542.444	1528.195
<b>70.0</b>	1285.964	1277.058
<b>72.5</b>	1059.763	1048.185
<b>75.0</b>	728.475	723.132
<b>77.5</b>	405.203	402.532
<b>80.0</b>	270.729	263.605
<b>82.5</b>	172.768	172.768
<b>85.0</b>	64.120	53.433
<b>87.5</b>	7.124	2.672
<b>90.0</b>	0.000	0.000

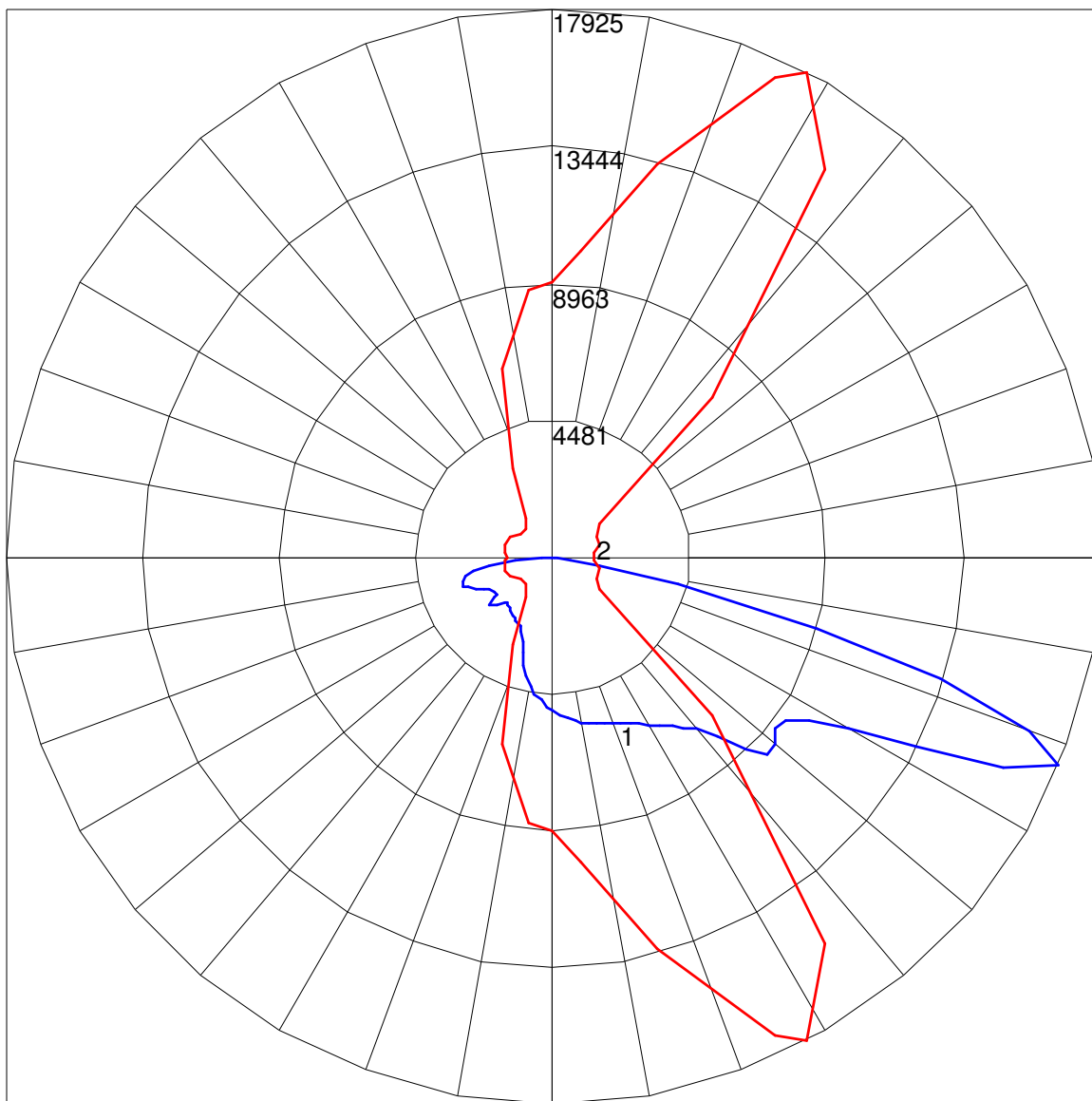
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

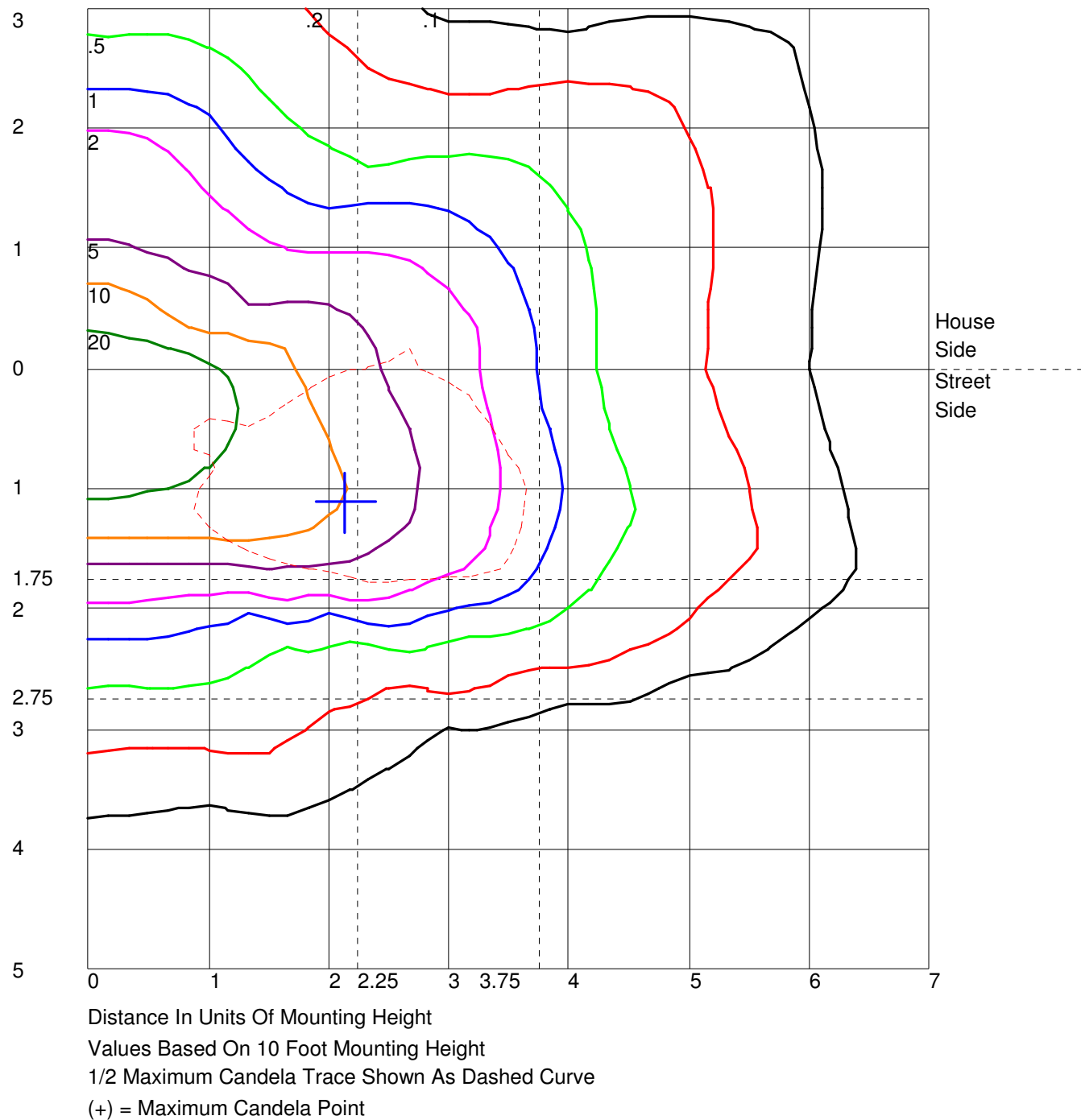
	Lumens	Percent Of Luminaire
Downward Street Side	17025.1	70.2
Downward House Side	7240.0	29.8
Downward Total	24265.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	24265.1	100.0

POLAR GRAPH



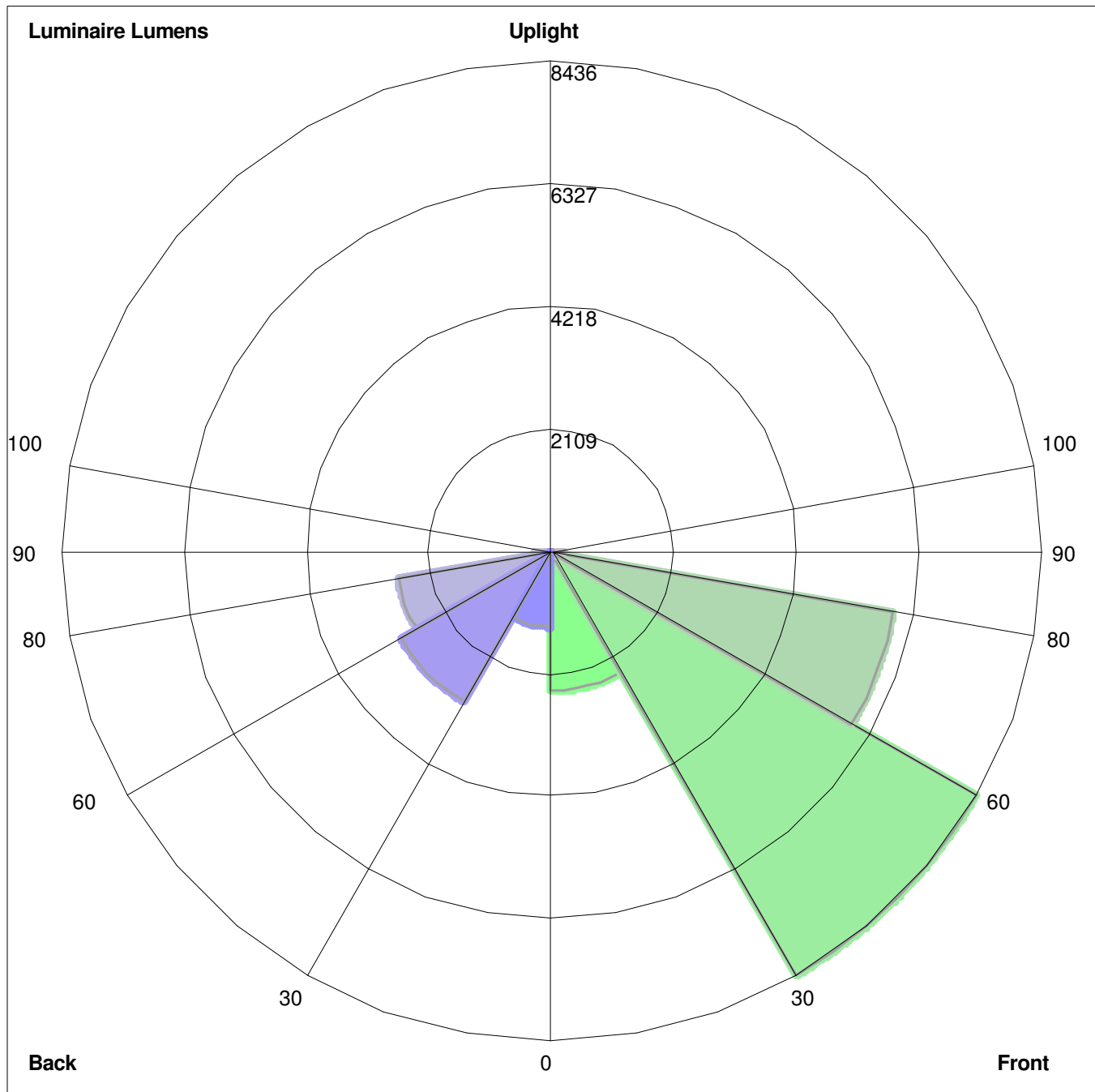
Maximum Candela = 17925.128 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2411.9, Medium=8435.7, High=5977.5, Very High=200.0  
Back: Low=1298.6, Medium=2990.1, High=2677.1, Very High=274.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4