



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L160-740-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-L160-740-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	17263
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	131
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8148.931
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	8148.931
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	391.019 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L160-740-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	886.1	N.A.	5.1
FM - Front-Medium (30-60)	4030.3	N.A.	23.3
FH - Front-High (60-80)	3656.8	N.A.	21.2
FVH - Front-Very High (80-90)	58.4	N.A.	0.3
BL - Back-Low (0-30)	886.1	N.A.	5.1
BM - Back-Medium (30-60)	4030.3	N.A.	23.3
BH - Back-High (60-80)	3656.8	N.A.	21.2
BVH - Back-Very High (80-90)	58.4	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	17263.2	N.A.	100.0
BUG Rating	B4-U0-G2		

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CANDELA TABULATION

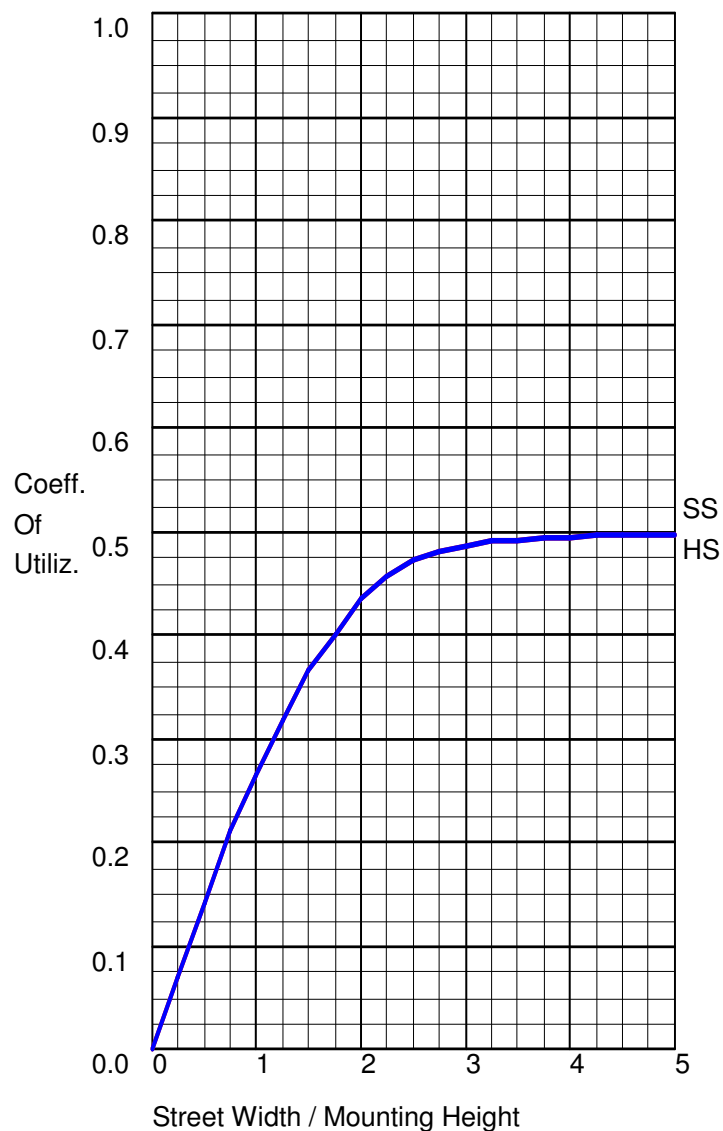
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788
2.5	1886.643	1888.355	1888.355	1886.643	1887.499	1886.643	1886.643	1885.788	1886.643	1887.499
5.0	1899.478	1902.900	1902.045	1900.333	1901.189	1900.333	1899.478	1897.767	1899.478	1901.189
7.5	1922.580	1926.858	1926.858	1924.291	1924.291	1924.291	1925.146	1923.435	1924.291	1928.569
10.0	1950.815	1954.238	1955.093	1952.526	1953.382	1954.238	1955.093	1955.093	1956.804	1960.227
12.5	1978.195	1982.473	1984.184	1981.617	1982.473	1985.040	1986.751	1987.607	1989.318	1991.885
15.0	2010.708	2014.131	2013.275	2014.131	2013.275	2014.987	2015.842	2018.409	2020.976	2021.832
17.5	2045.789	2050.067	2048.356	2049.211	2046.645	2048.356	2047.500	2048.356	2050.923	2051.778
20.0	2089.426	2091.137	2088.570	2088.570	2085.147	2083.436	2083.436	2083.436	2083.436	2084.292
22.5	2132.207	2133.062	2130.495	2128.784	2125.362	2123.650	2122.795	2120.228	2119.372	2119.372
25.0	2182.688	2183.544	2180.121	2177.554	2171.565	2168.998	2167.287	2163.865	2163.009	2162.153
27.5	2250.282	2246.860	2241.726	2238.304	2229.747	2227.180	2222.902	2217.769	2216.913	2216.913
30.0	2326.432	2322.154	2317.876	2315.309	2305.042	2301.619	2293.919	2287.074	2287.930	2288.785
32.5	2417.984	2414.561	2408.572	2410.283	2400.016	2398.305	2388.893	2379.481	2375.203	2376.058
35.0	2526.648	2523.225	2521.514	2523.225	2513.813	2512.958	2507.824	2497.557	2494.990	2491.567
37.5	2654.991	2653.280	2654.991	2658.413	2653.280	2656.702	2655.846	2647.290	2642.156	2637.023
40.0	2796.168	2802.158	2803.013	2815.847	2817.559	2828.682	2831.249	2827.826	2830.393	2826.115
42.5	2952.747	2958.736	2963.014	2981.838	2996.383	3021.196	3028.041	3035.742	3038.309	3050.288
45.0	3117.026	3120.448	3128.149	3155.529	3179.486	3220.556	3237.668	3252.214	3264.193	3277.883
47.5	3294.995	3301.840	3302.696	3342.910	3384.835	3435.317	3451.574	3474.675	3495.210	3508.900
50.0	3505.478	3511.467	3519.168	3565.371	3622.698	3696.281	3714.249	3733.928	3753.608	3772.431
52.5	3760.453	3762.164	3772.431	3846.015	3920.454	4024.839	4044.519	4071.043	4083.022	4106.123
55.0	4034.251	4041.952	4077.032	4189.119	4314.039	4437.249	4486.875	4511.688	4526.233	4557.035
57.5	4329.440	4338.852	4400.457	4569.014	4769.229	4954.899	5042.172	5065.274	5079.820	5119.178
60.0	4618.640	4643.453	4756.395	4986.557	5280.890	5550.411	5701.000	5740.359	5738.648	5759.182
62.5	4731.582	4783.775	4989.124	5315.971	5734.369	6158.757	6435.978	6521.540	6530.952	6535.230
65.0	4405.591	4449.227	4760.673	5191.050	5778.006	6418.010	6979.297	7253.952	7429.354	7495.237
67.5	3524.301	3529.435	3908.475	4399.601	5100.355	5920.039	6778.227	7460.156	7938.448	8148.931
70.0	2111.672	2094.559	2420.551	2853.495	3525.157	4407.302	5474.261	6472.770	7170.956	7480.691
72.5	995.942	977.119	1137.975	1327.068	1759.156	2265.683	3157.240	4108.690	4823.133	5198.751
75.0	520.217	515.939	558.720	598.079	714.443	848.776	1191.880	1680.439	2129.640	2446.219
77.5	319.146	322.569	349.949	372.195	410.698	442.356	510.806	606.635	728.133	801.717
80.0	214.761	214.761	225.028	246.419	274.654	290.911	323.425	350.804	380.751	391.019
82.5	134.332	133.477	137.755	148.022	171.124	181.392	198.504	210.483	221.606	217.328
85.0	48.770	49.626	58.182	66.738	83.851	87.273	95.830	100.963	98.396	94.974
87.5	7.701	8.556	11.123	14.546	19.679	21.391	26.524	29.947	30.802	30.802
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	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788	1885.788	
2.5	1886.643	1885.788	1887.499	1887.499	1888.355	1888.355	1886.643	1887.499	1887.499	
5.0	1899.478	1899.478	1901.189	1901.189	1902.900	1903.756	1902.045	1903.756	1906.323	
7.5	1926.002	1925.146	1926.858	1927.713	1929.425	1930.280	1929.425	1931.991	1936.269	
10.0	1958.516	1957.660	1959.371	1959.371	1961.082	1961.938	1961.082	1964.505	1970.494	
12.5	1991.029	1990.174	1991.029	1991.885	1993.596	1991.885	1992.740	1997.019	2005.575	
15.0	2021.832	2020.120	2020.120	2020.976	2022.687	2022.687	2024.398	2030.388	2039.800	
17.5	2050.923	2049.211	2051.778	2051.778	2053.489	2056.912	2059.479	2067.179	2078.302	
20.0	2082.581	2081.725	2085.147	2086.003	2091.137	2095.415	2098.837	2109.105	2121.084	
22.5	2116.805	2115.950	2121.939	2125.362	2132.207	2137.340	2144.185	2155.308	2165.576	
25.0	2160.442	2160.442	2167.287	2172.421	2180.977	2188.678	2195.523	2207.501	2218.624	
27.5	2216.913	2216.913	2222.902	2231.459	2239.159	2246.860	2255.416	2264.828	2275.095	

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30.0	2288.785	2289.641	2294.775	2302.475	2311.031	2318.732	2327.288	2334.989	2342.689
32.5	2377.770	2381.192	2388.037	2396.593	2403.438	2408.572	2414.561	2419.695	2426.540
35.0	2494.990	2498.412	2506.968	2517.236	2519.803	2525.792	2526.648	2534.348	2538.626
37.5	2643.012	2643.868	2653.280	2660.980	2666.114	2666.114	2666.114	2666.969	2674.670
40.0	2828.682	2824.404	2834.671	2838.949	2838.949	2823.548	2819.270	2818.414	2824.404
42.5	3043.443	3034.886	3038.309	3034.031	3018.630	2989.538	2977.560	2977.560	2988.683
45.0	3275.316	3256.492	3247.936	3232.535	3202.588	3165.796	3148.684	3141.839	3162.374
47.5	3506.333	3489.221	3469.542	3453.285	3406.226	3363.445	3343.765	3332.642	3348.899
50.0	3772.431	3763.875	3743.340	3723.661	3658.634	3598.740	3571.360	3555.959	3573.072
52.5	4118.102	4124.091	4111.257	4056.497	3963.235	3875.961	3829.758	3809.223	3821.202
55.0	4583.560	4599.816	4573.292	4474.896	4344.842	4210.509	4132.648	4092.433	4097.567
57.5	5152.547	5168.804	5136.291	4981.423	4822.278	4616.073	4489.441	4414.147	4401.312
60.0	5813.087	5827.632	5807.097	5625.706	5410.089	5116.611	4907.840	4785.486	4762.384
62.5	6578.011	6621.648	6599.402	6339.293	5963.676	5540.144	5201.318	4986.557	4919.819
65.0	7509.782	7470.424	7232.561	6681.541	6045.815	5436.613	4985.701	4661.421	4544.201
67.5	8059.946	7667.216	7038.335	6197.260	5391.266	4657.999	4104.412	3733.073	3580.772
70.0	7332.669	6697.798	5754.049	4723.026	3792.111	3073.389	2497.557	2207.501	2079.158
72.5	5074.686	4343.130	3253.925	2252.849	1620.545	1337.335	1107.173	1010.488	963.429
75.0	2211.779	1644.503	1073.804	841.931	714.443	651.983	587.811	561.287	545.886
77.5	693.053	595.512	520.217	475.725	436.367	406.420	375.617	349.093	337.970
80.0	385.885	356.794	332.836	309.735	290.055	267.809	236.151	225.028	220.750
82.5	223.317	213.905	203.638	189.948	177.969	160.001	141.177	139.466	142.033
85.0	97.541	98.396	94.974	88.985	84.706	74.439	67.594	66.738	66.738
87.5	31.658	30.802	27.380	25.669	23.957	22.246	18.824	19.679	18.824
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

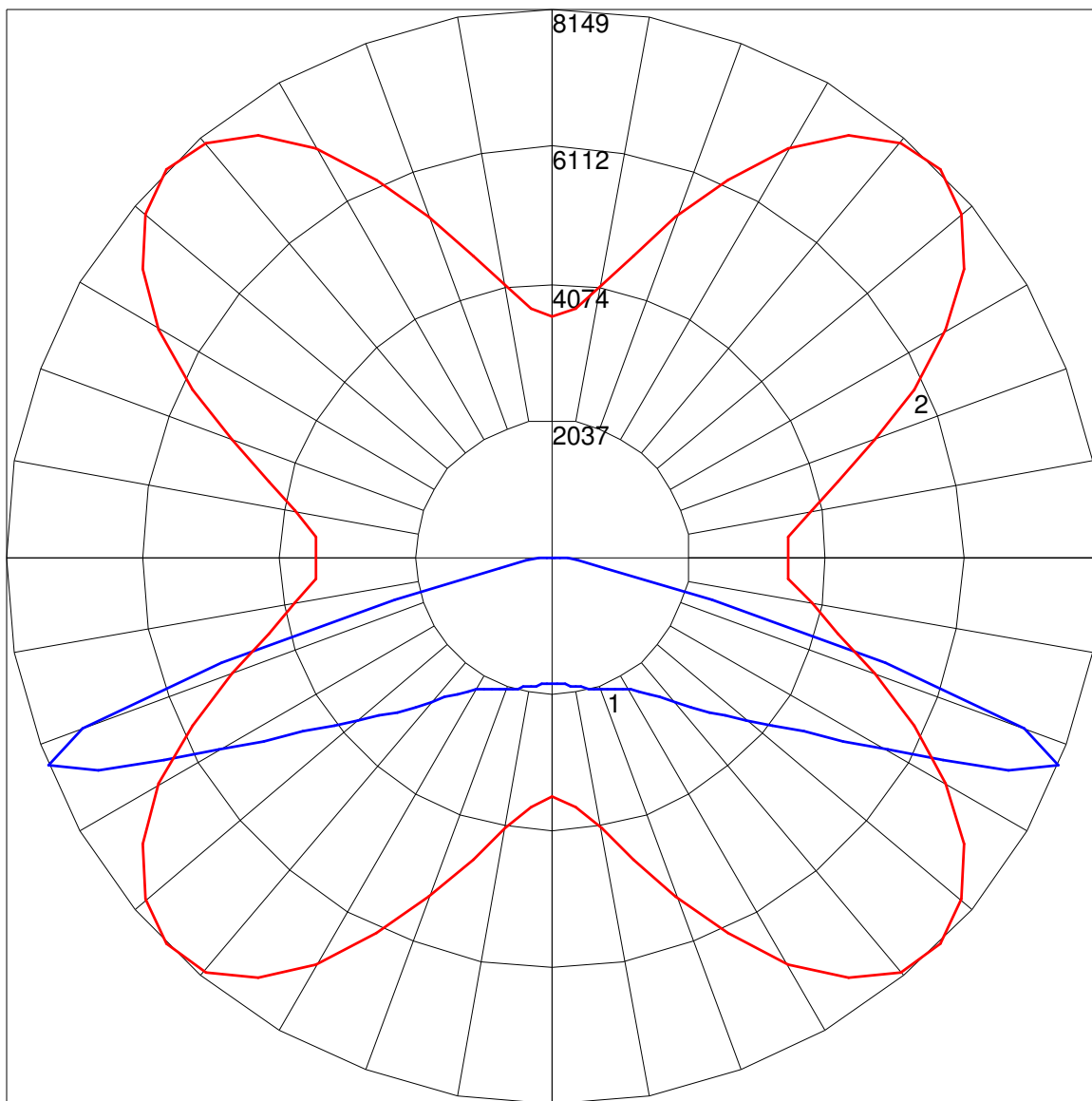
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

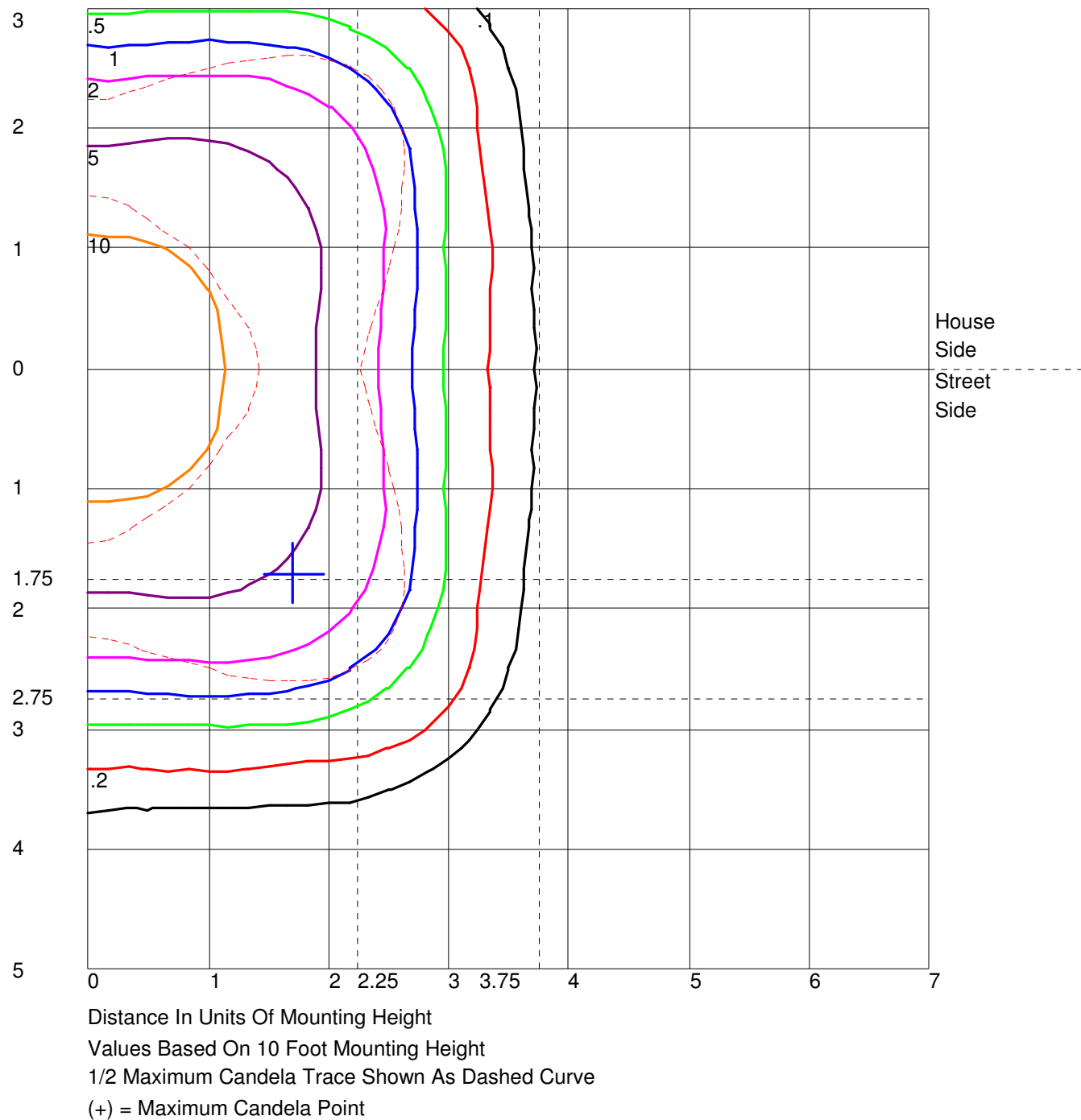
	Lumens	Percent Of Luminaire
Downward Street Side	8631.6	50.0
Downward House Side	8631.6	50.0
Downward Total	17263.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17263.2	100.0

POLAR GRAPH

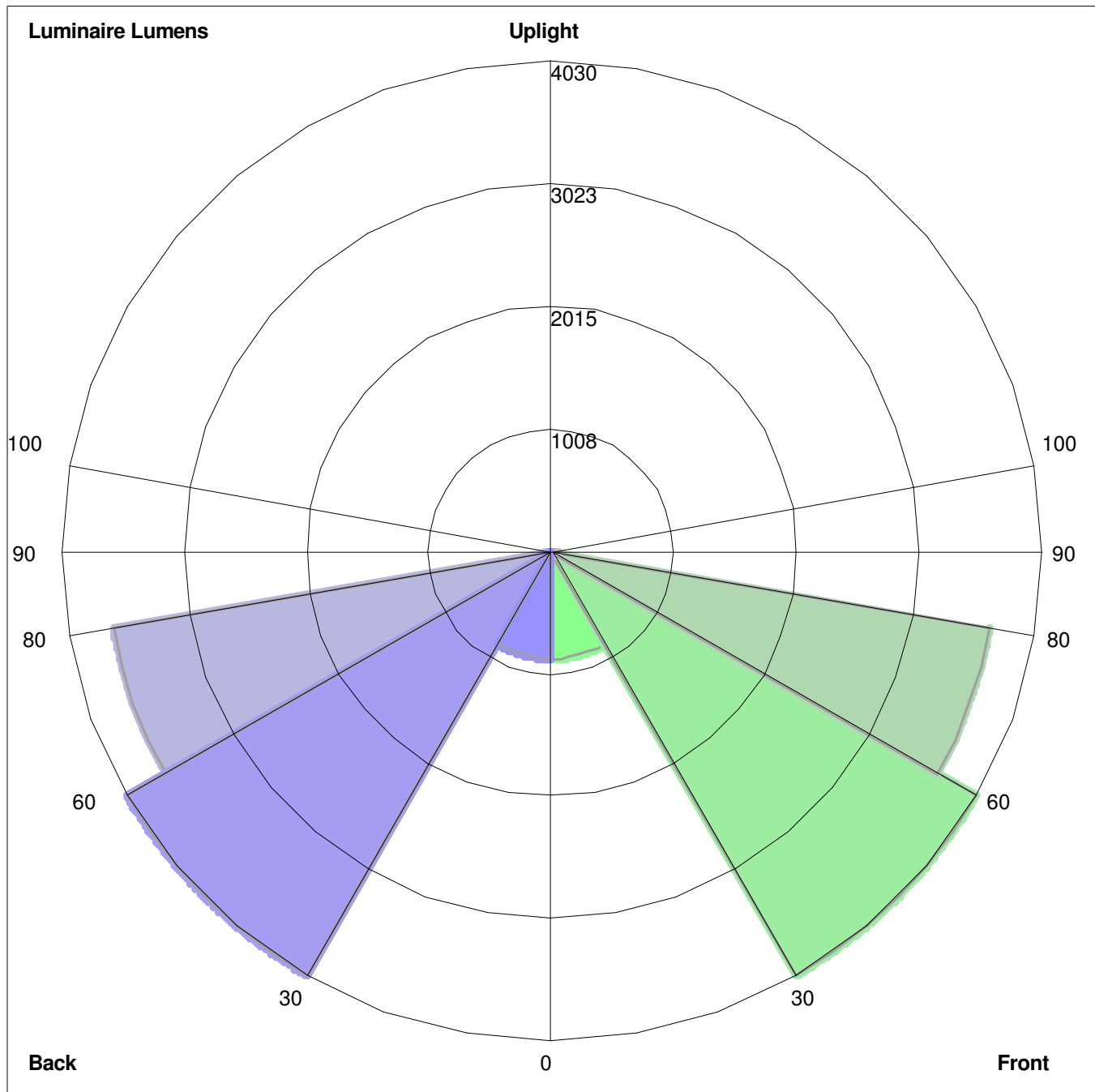


Maximum Candela = 8148.931 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=886.1, Medium=4030.3, High=3656.8, Very High=58.4
Back: Low=886.1, Medium=4030.3, High=3656.8, Very High=58.4
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2