



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L160-750-T5-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011764  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA1-L160-750-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	17781
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	131
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8393.398
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	8393.398
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	402.749 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L160-750-T5-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	912.7	N.A.	5.1
FM - Front-Medium (30-60)	4151.2	N.A.	23.3
FH - Front-High (60-80)	3766.5	N.A.	21.2
FVH - Front-Very High (80-90)	60.2	N.A.	0.3
BL - Back-Low (0-30)	912.7	N.A.	5.1
BM - Back-Medium (30-60)	4151.2	N.A.	23.3
BH - Back-High (60-80)	3766.5	N.A.	21.2
BVH - Back-Very High (80-90)	60.2	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	17781.2	N.A.	100.0
BUG Rating	B4-U0-G2		

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

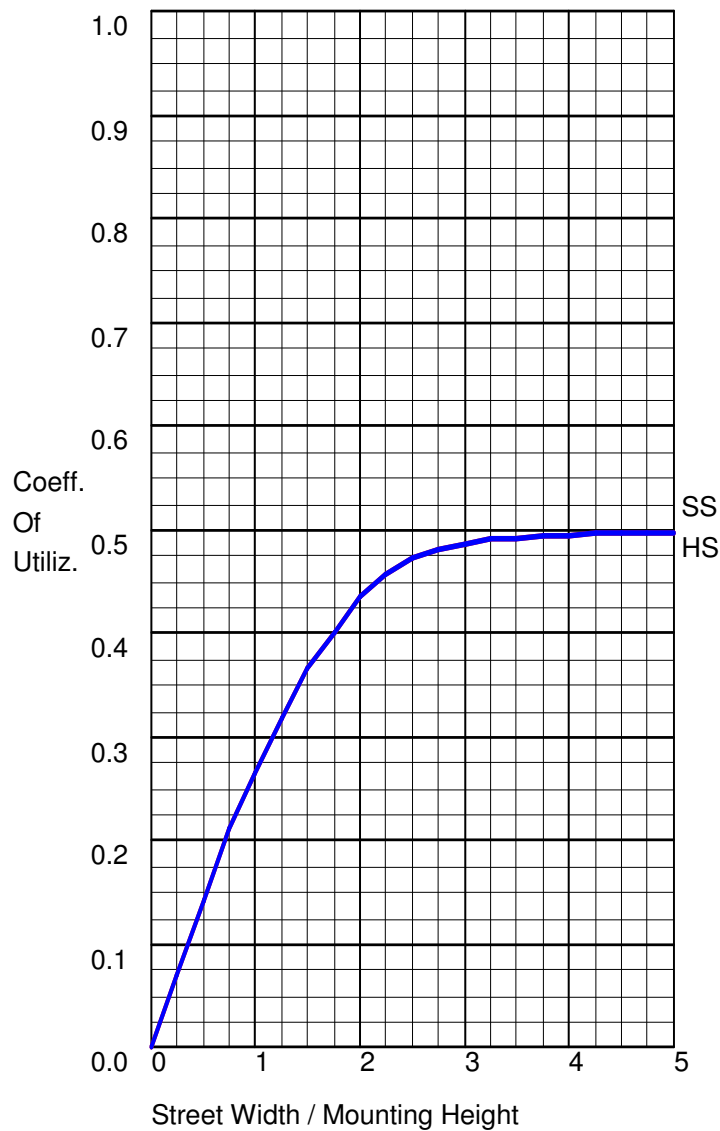
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361
2.5	1943.243	1945.005	1945.005	1943.243	1944.124	1943.243	1943.243	1942.361	1943.243	1944.124
5.0	1956.462	1959.987	1959.106	1957.343	1958.225	1957.343	1956.462	1954.699	1956.462	1958.225
7.5	1980.257	1984.663	1984.663	1982.019	1982.019	1982.019	1982.901	1981.138	1982.019	1986.426
10.0	2009.339	2012.864	2013.746	2011.102	2011.983	2012.864	2013.746	2013.746	2015.508	2019.034
12.5	2037.541	2041.947	2043.710	2041.066	2041.947	2044.591	2046.353	2047.235	2048.997	2051.641
15.0	2071.030	2074.555	2073.673	2074.555	2073.673	2075.436	2076.317	2078.961	2081.605	2082.486
17.5	2107.162	2111.569	2109.806	2110.688	2108.044	2109.806	2108.925	2109.806	2112.450	2113.331
20.0	2152.108	2153.871	2151.227	2151.227	2147.702	2145.939	2145.939	2145.939	2145.939	2146.820
22.5	2196.173	2197.054	2194.410	2192.647	2189.122	2187.360	2186.478	2183.835	2182.953	2182.953
25.0	2248.169	2249.050	2245.525	2242.881	2236.712	2234.068	2232.306	2228.780	2227.899	2227.018
27.5	2317.791	2314.265	2308.978	2305.453	2296.640	2293.996	2289.589	2284.302	2283.420	2283.420
30.0	2396.225	2391.819	2387.412	2384.769	2374.193	2370.668	2362.736	2355.686	2356.567	2357.449
32.5	2490.523	2486.998	2480.829	2482.592	2472.016	2470.254	2460.559	2450.865	2446.459	2447.340
35.0	2602.447	2598.922	2597.159	2598.922	2589.228	2588.346	2583.059	2572.483	2569.839	2566.314
37.5	2734.640	2732.878	2734.640	2738.165	2732.878	2736.403	2735.522	2726.709	2721.421	2716.133
40.0	2880.053	2886.222	2887.103	2900.323	2902.085	2913.542	2916.186	2912.661	2915.305	2910.898
42.5	3041.329	3047.498	3051.904	3071.293	3086.275	3111.832	3118.882	3126.814	3129.458	3141.796
45.0	3210.536	3214.062	3221.993	3250.195	3274.871	3317.172	3334.798	3349.780	3362.118	3376.219
47.5	3393.845	3400.895	3401.776	3443.197	3486.380	3538.376	3555.121	3578.915	3600.066	3614.167
50.0	3610.642	3616.811	3624.742	3672.332	3731.378	3807.169	3825.676	3845.946	3866.216	3885.604
52.5	3873.266	3875.029	3885.604	3961.395	4038.067	4145.584	4165.854	4193.174	4205.512	4229.307
55.0	4155.279	4163.210	4199.343	4314.792	4443.460	4570.366	4621.480	4647.038	4662.020	4693.746
57.5	4459.323	4469.017	4532.470	4706.084	4912.306	5103.546	5193.437	5217.232	5232.214	5272.753
60.0	4757.199	4782.756	4899.087	5136.153	5439.317	5716.923	5872.030	5912.569	5910.807	5931.957
62.5	4873.529	4927.288	5138.797	5475.450	5906.400	6343.520	6629.057	6717.186	6726.880	6731.287
65.0	4537.758	4582.704	4903.493	5346.781	5951.346	6610.550	7188.676	7471.570	7652.234	7720.093
67.5	3630.030	3635.318	4025.729	4531.589	5253.365	6097.640	6981.573	7683.960	8176.601	8393.398
70.0	2175.022	2157.396	2493.167	2939.099	3630.911	4539.521	5638.488	6666.953	7386.085	7705.111
72.5	1025.821	1006.432	1172.115	1366.880	1811.931	2333.654	3251.957	4231.951	4967.827	5354.713
75.0	535.824	531.417	575.482	616.021	735.876	874.239	1227.636	1730.852	2193.529	2519.606
77.5	328.721	332.246	360.447	383.361	423.019	455.627	526.130	624.834	749.977	825.768
80.0	221.204	221.204	231.779	253.811	282.894	299.638	333.127	361.329	392.174	402.749
82.5	138.362	137.481	141.888	152.463	176.258	186.833	204.459	216.797	228.254	223.847
85.0	50.233	51.115	59.928	68.741	86.366	89.891	98.704	103.992	101.348	97.823
87.5	7.932	8.813	11.457	14.982	20.270	22.032	27.320	30.845	31.726	31.726
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	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361	1942.361
2.5	1943.243	1942.361	1944.124	1944.124	1945.005	1945.005	1943.243	1944.124	1944.124
5.0	1956.462	1956.462	1958.225	1958.225	1959.987	1960.868	1959.106	1960.868	1963.512
7.5	1983.782	1982.901	1984.663	1985.545	1987.307	1988.188	1987.307	1989.951	1994.357
10.0	2017.271	2016.390	2018.152	2018.152	2019.915	2020.796	2019.915	2023.440	2029.609
12.5	2050.760	2049.879	2050.760	2051.641	2053.404	2051.641	2052.523	2056.929	2065.742
15.0	2082.486	2080.724	2080.724	2081.605	2083.368	2083.368	2085.130	2091.299	2100.993
17.5	2112.450	2110.688	2113.331	2113.331	2115.094	2118.619	2121.263	2129.195	2140.651
20.0	2145.058	2144.177	2147.702	2148.583	2153.871	2158.277	2161.802	2172.378	2184.716
22.5	2180.309	2179.428	2185.597	2189.122	2196.173	2201.460	2208.511	2219.967	2230.543
25.0	2225.255	2225.255	2232.306	2237.593	2246.406	2254.338	2261.388	2273.726	2285.183
27.5	2283.420	2283.420	2289.589	2298.402	2306.334	2314.265	2323.078	2332.772	2343.348

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30.0	2357.449	2358.330	2363.618	2371.549	2380.362	2388.294	2397.107	2405.038	2412.970
32.5	2449.103	2452.628	2459.678	2468.491	2475.541	2480.829	2486.998	2492.286	2499.336
35.0	2569.839	2573.364	2582.177	2592.753	2595.397	2601.566	2602.447	2610.379	2614.785
37.5	2722.302	2723.184	2732.878	2740.809	2746.097	2746.097	2746.097	2746.978	2754.910
40.0	2913.542	2909.136	2919.711	2924.118	2924.118	2908.254	2903.848	2902.967	2909.136
42.5	3134.746	3125.933	3129.458	3125.051	3109.188	3079.224	3066.886	3066.886	3078.343
45.0	3373.575	3354.187	3345.374	3329.511	3298.665	3260.770	3243.144	3236.094	3257.245
47.5	3611.523	3593.897	3573.628	3556.883	3508.412	3464.348	3444.078	3432.621	3449.366
50.0	3885.604	3876.791	3855.640	3835.371	3768.393	3706.702	3678.501	3662.638	3680.264
52.5	4241.645	4247.814	4234.595	4178.192	4082.132	3992.240	3944.650	3923.499	3935.837
55.0	4721.066	4737.811	4710.491	4609.142	4475.186	4336.824	4256.627	4215.206	4220.494
57.5	5307.123	5323.868	5290.379	5130.866	4966.946	4754.555	4624.124	4546.571	4533.352
60.0	5987.479	6002.461	5981.310	5794.476	5572.392	5270.109	5055.075	4929.050	4905.256
62.5	6775.351	6820.297	6797.383	6529.472	6142.586	5706.347	5357.357	5136.153	5067.413
65.0	7735.075	7694.536	7449.537	6881.987	6227.189	5599.711	5135.272	4801.263	4680.527
67.5	8301.744	7897.232	7249.485	6383.178	5553.003	4797.738	4227.544	3845.065	3688.195
70.0	7552.648	6898.732	5926.670	4864.716	3905.874	3165.591	2572.483	2273.726	2141.533
72.5	5226.926	4473.424	3351.543	2320.434	1669.162	1377.455	1140.388	1040.803	992.332
75.0	2278.133	1693.838	1106.018	867.189	735.876	671.542	605.446	578.126	562.262
77.5	713.844	613.377	535.824	489.997	449.457	418.612	386.886	359.566	348.109
80.0	397.461	367.498	342.821	319.027	298.757	275.844	243.236	231.779	227.373
82.5	230.016	220.322	209.747	195.646	183.308	164.801	145.413	143.650	146.294
85.0	100.467	101.348	97.823	91.654	87.248	76.672	69.622	68.741	68.741
87.5	32.608	31.726	28.201	26.439	24.676	22.914	19.388	20.270	19.388
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

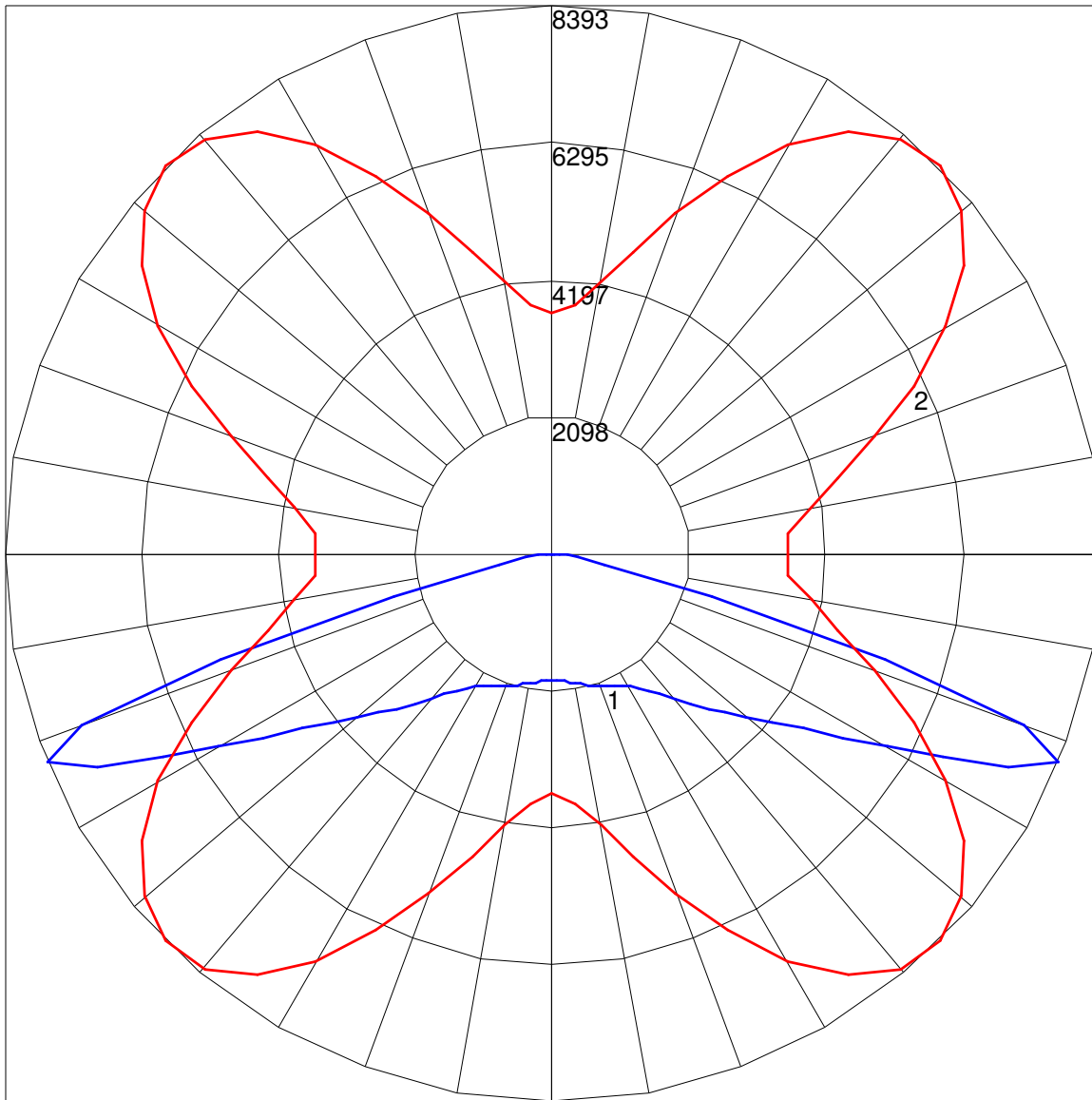
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

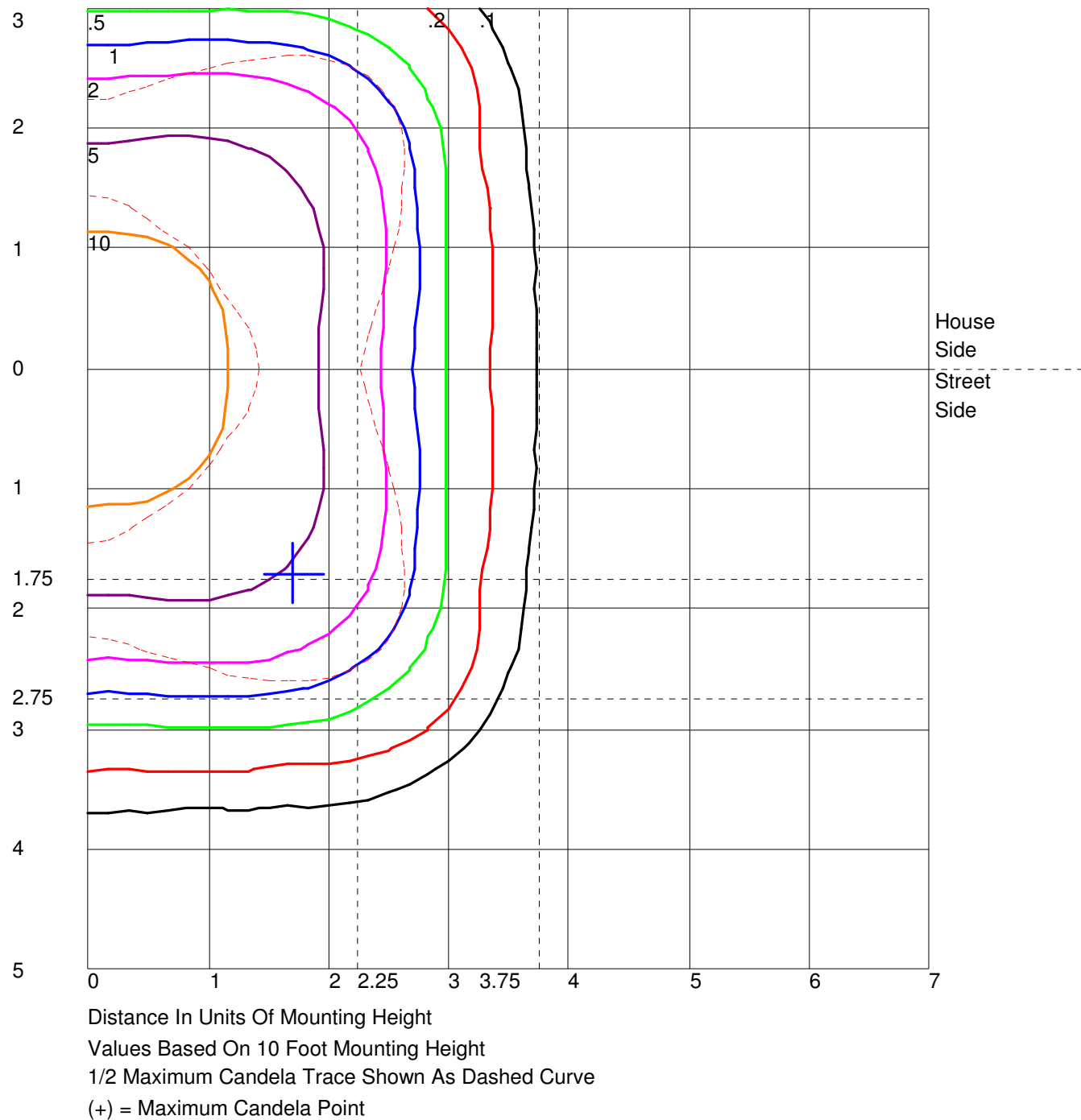
	Lumens	Percent Of Luminaire
Downward Street Side	8890.5	50.0
Downward House Side	8890.5	50.0
Downward Total	17781.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17781.0	100.0

POLAR GRAPH

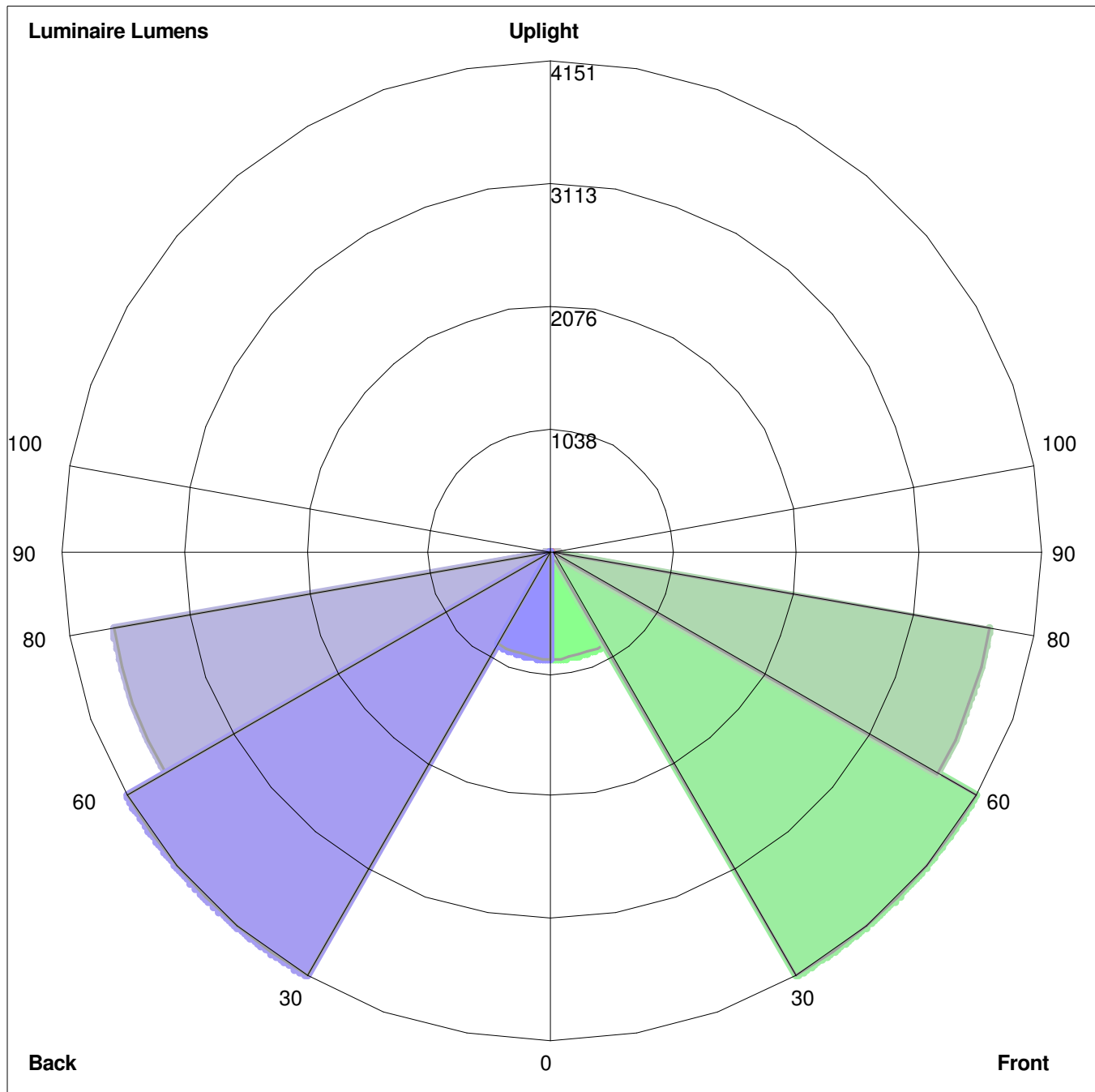


Maximum Candela = 8393.398 Located At Horizontal Angle = 45, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=912.7, Medium=4151.2, High=3766.5, Very High=60.2  
Back: Low=912.7, Medium=4151.2, High=3766.5, Very High=60.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2