



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-740-T4-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011773  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 02/26/2020  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L280-740-T4-F-S-xxx-DIM-UNV  
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE IV  
[MORE]OPTICS, CLEAR LENS, (2) LED ARRAYS  
[MORE]AND (2) ELECTRONIC DRIVERS IN A BROWN HOUSING.  
[LAMPCAT] 4000K LEDS  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor, Area, Parking  
[ \_SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25620
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24406.823
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	24406.823
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1727.686 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-740-T4-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1957.2	N.A.	7.6
FM - Front-Medium (30-60)	7887.9	N.A.	30.8
FH - Front-High (60-80)	9181.0	N.A.	35.8
FVH - Front-Very High (80-90)	161.4	N.A.	0.6
BL - Back-Low (0-30)	1298.5	N.A.	5.1
BM - Back-Medium (30-60)	3095.1	N.A.	12.1
BH - Back-High (60-80)	1918.3	N.A.	7.5
BVH - Back-Very High (80-90)	120.9	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	25620.3	N.A.	100.0
BUG Rating	B3-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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929
2.5	4325.222	4316.213	4328.225	4309.206	4268.166	4261.159	4242.141	4215.114	4162.063	4119.021
5.0	4680.569	4684.573	4691.579	4659.548	4605.495	4534.426	4516.408	4423.318	4298.195	4172.072
7.5	4879.763	4886.770	4891.775	4884.768	4829.714	4762.649	4738.625	4599.489	4422.317	4231.130
10.0	4923.806	4933.816	4938.821	4950.832	4935.818	4875.759	4856.741	4710.598	4530.422	4292.190
12.5	4912.795	4920.803	4918.801	4939.822	4948.830	4897.781	4880.764	4764.651	4612.502	4352.248
15.0	4884.768	4887.771	4877.761	4898.782	4922.805	4879.763	4861.745	4791.677	4675.564	4423.318
17.5	4850.735	4847.732	4836.721	4855.740	4869.753	4846.731	4837.722	4816.702	4735.622	4485.378
20.0	4778.664	4773.660	4783.669	4815.701	4817.702	4801.687	4800.686	4836.721	4736.623	4518.410
22.5	4679.568	4676.565	4744.631	4779.665	4760.647	4756.643	4768.655	4792.678	4724.612	4564.455
25.0	4607.497	4614.504	4737.624	4727.615	4709.597	4734.621	4755.642	4749.636	4741.628	4621.511
27.5	4602.492	4628.518	4725.613	4705.593	4699.587	4748.635	4773.660	4762.649	4782.668	4702.590
30.0	4687.575	4695.583	4730.617	4726.614	4757.644	4806.692	4826.711	4842.727	4864.748	4816.702
32.5	4814.700	4782.668	4799.685	4848.733	4890.774	4918.801	4937.820	4976.858	4991.872	4957.839
35.0	4983.865	4932.815	4933.816	5050.930	5068.948	5085.964	5088.967	5145.022	5145.022	5131.008
37.5	5262.136	5224.099	5194.070	5299.172	5327.200	5312.185	5294.168	5314.187	5308.181	5313.186
40.0	5621.487	5586.453	5544.412	5622.488	5670.535	5597.464	5572.439	5473.342	5481.350	5521.389
42.5	5996.853	5960.818	5943.802	6026.883	6097.952	5957.815	5894.754	5660.525	5682.547	5748.611
45.0	6442.288	6427.274	6419.266	6503.348	6580.423	6402.249	6307.156	6017.874	5935.794	6025.882
47.5	6974.808	6934.769	6955.789	7088.919	7040.872	6921.756	6830.667	6509.354	6288.138	6364.212
50.0	7530.350	7471.293	7480.301	7689.506	7568.387	7490.311	7421.244	7139.969	6772.611	6765.604
52.5	8272.074	8256.059	8058.866	8221.024	8140.946	8102.909	8089.896	7931.742	7375.199	7206.034
55.0	9527.299	9368.144	8950.737	8840.629	8781.572	8847.636	8938.725	8803.593	8069.877	7740.555
57.5	10803.545	10791.533	10255.010	9716.484	9479.253	9792.558	10018.779	99660.429	8806.596	8273.075
60.0	11434.161	11436.163	11470.196	10877.617	10316.069	10984.722	11381.109	10632.378	9475.249	8632.426
62.5	11962.677	12082.794	12413.116	12273.980	11484.210	12668.365	13298.981	11676.397	9848.613	8707.499
65.0	12678.375	12883.575	13946.613	13937.604	13158.844	15430.061	16176.790	12871.564	9567.339	8419.218
67.5	12047.760	12289.996	14860.505	16342.952	15583.211	19431.967	20075.596	13569.245	8495.292	7678.495
70.0	9757.524	9806.572	13487.165	17954.525	17976.547	23323.766	23498.937	12083.795	6586.429	5850.711
72.0	7109.940	7231.058	10937.676	16922.518	17971.542	224406.823	23996.423	8443.241	4657.546	3407.326
72.5	6250.101	6371.219	10083.843	16353.963	17664.242	24178.600	23752.184	7360.184	4184.084	2833.766
75.0	2452.394	2415.358	4419.314	10159.917	13171.857	18585.141	14781.428	2958.888	2492.433	1311.280
77.5	1592.554	1550.513	1417.383	2906.837	4948.830	5846.707	2975.905	1180.152	1368.336	840.821
80.0	1035.010	1160.132	860.840	1319.288	1727.686	1434.400	1017.994	672.657	792.774	553.540
82.5	526.514	633.618	506.494	661.646	723.706	566.553	547.534	385.376	415.405	311.304
85.0	222.217	296.289	207.202	251.245	277.271	204.199	204.199	160.156	172.168	128.125
87.5	55.054	80.078	32.031	32.031	48.047	30.029	25.024	27.026	27.026	20.020
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	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929	4024.929
2.5	4066.970	4029.934	4002.907	3951.857	3890.798	3838.747	3782.692	3750.661	3703.615	3688.600
5.0	4038.942	3964.870	3899.807	3778.688	3659.572	3562.477	3471.388	3420.339	3367.287	3348.268
7.5	4025.930	3919.826	3817.726	3634.548	3472.389	3350.270	3261.183	3216.139	3186.110	3182.106
10.0	4016.921	3876.784	3739.650	3499.416	3313.234	3200.124	3135.060	3129.054	3143.068	3172.096
12.5	4012.917	3835.744	3661.574	3368.288	3178.102	3094.020	3078.004	3118.043	3190.114	3271.193
15.0	4021.926	3803.713	3591.506	3248.170	3062.990	3012.941	3047.975	3138.063	3260.182	3379.298
17.5	4027.932	3773.683	3526.442	3140.065	2966.896	2948.878	3008.937	3129.054	3252.174	3371.291
20.0	4032.936	3744.655	3468.385	3044.972	2887.819	2891.823	2950.880	3045.973	3148.073	3270.192
22.5	4047.951	3723.635	3413.332	2956.886	2822.755	2838.771	2865.797	2921.852	3010.939	3129.054
25.0	4076.979	3716.628	3366.286	2884.816	2771.705	2783.717	2759.694	2794.728	2858.790	2975.905

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**CANDELA TABULATION - (Cont.)**

27.5	4131.032	3726.638	3334.255	2831.764	2733.668	2714.650	2660.597	2671.608	2728.663	2828.761
30.0	4212.111	3760.671	3323.244	2793.727	2704.640	2638.575	2572.511	2567.506	2607.545	2700.636
32.5	4324.221	3818.727	3328.249	2766.701	2683.619	2568.507	2492.433	2469.410	2505.446	2626.564
35.0	4466.360	3898.806	3350.270	2750.685	2662.599	2509.449	2418.361	2375.319	2449.391	2587.526
37.5	4644.533	4003.908	3394.313	2754.689	2626.564	2454.396	2334.278	2317.262	2413.356	2564.503
40.0	4878.762	4160.061	3472.389	2784.718	2584.523	2406.349	2259.205	2284.230	2378.321	2559.498
42.5	5169.045	4381.277	3594.509	2821.754	2555.494	2372.316	2218.165	2248.194	2353.297	2556.495
45.0	5514.383	4657.546	3775.685	2853.786	2543.483	2340.284	2205.152	2211.158	2331.276	2535.475
47.5	5923.782	5017.898	4010.915	2882.814	2539.479	2309.254	2182.130	2175.123	2299.244	2413.356
50.0	6393.240	5456.326	4289.187	2932.863	2543.483	2274.220	2146.095	2136.085	2168.116	2357.301
52.5	6898.734	5904.764	4600.490	3035.963	2564.503	2258.204	2107.057	2089.039	2051.002	2329.274
55.0	7490.311	6607.449	5169.045	3149.074	2589.528	2291.236	2112.062	2003.956	2002.955	2270.216
57.5	8408.207	7655.472	5701.565	3250.172	2692.628	2422.364	2230.177	2042.994	2047.999	2208.155
60.0	9414.189	8218.021	6073.929	3444.362	2811.745	2502.443	2331.276	2145.094	2209.156	2244.191
62.5	9410.185	8239.042	6460.306	3586.501	2810.744	2480.421	2293.238	2113.063	2334.278	2220.167
65.0	8762.553	7896.708	6270.120	3486.403	2793.727	2479.420	2202.149	1914.869	2202.149	2044.996
67.5	6515.360	5693.557	4264.162	2622.560	2557.496	2455.397	2111.061	1723.682	1958.912	1867.823
70.0	3136.061	2495.436	1811.768	1438.404	1819.776	2252.198	2063.014	1550.513	1731.690	1780.738
72.0	1588.551	1251.221	1050.025	941.919	1162.134	1897.852	2035.987	1391.358	1493.458	1630.592
72.5	1479.444	1127.100	963.941	880.860	1041.016	1846.803	2016.969	1349.317	1427.393	1581.544
75.0	881.861	741.724	662.647	639.624	698.682	1217.188	1735.694	1143.116	1109.083	1294.263
77.5	589.575	501.489	467.456	455.445	501.489	714.698	1312.281	978.956	873.853	994.971
80.0	392.383	330.322	312.305	313.306	347.339	456.446	837.818	756.739	674.659	761.744
82.5	222.217	179.175	174.170	186.182	211.206	268.262	451.441	552.539	493.482	569.556
85.0	91.089	69.067	67.065	75.073	93.091	121.118	213.208	265.259	239.234	263.257
87.5	14.014	10.010	9.009	12.012	19.019	27.026	56.055	61.060	56.055	52.051
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

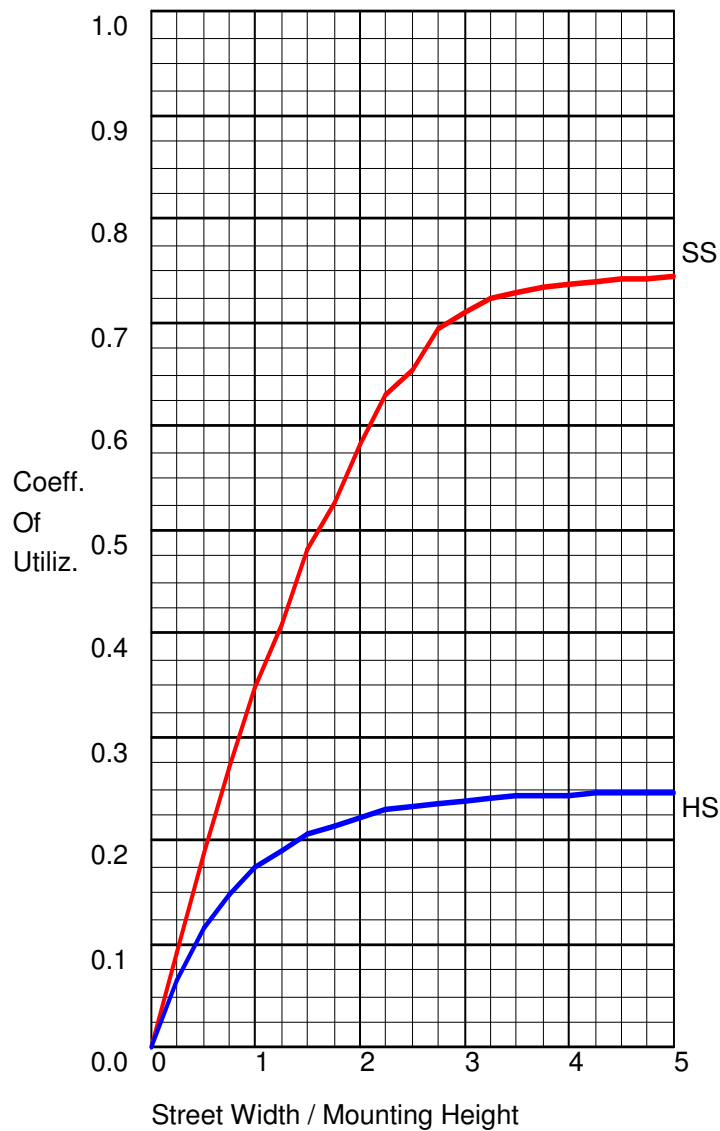
	<u>175.0</u>	<u>180.0</u>
0.0	4024.929	4024.929
2.5	3678.591	3690.602
5.0	3337.257	3345.265
7.5	3179.103	3181.105
10.0	3189.113	3187.111
12.5	3315.236	3313.234
15.0	3441.359	3442.360
17.5	3436.354	3444.362
20.0	3345.265	3358.278
22.5	3209.132	3227.150
25.0	3062.990	3078.004
27.5	2916.847	2931.862
30.0	2799.733	2812.745
32.5	2741.676	2758.693
35.0	2707.643	2725.660
37.5	2707.643	2719.655
40.0	2723.659	2726.661
42.5	2720.656	2724.660
45.0	2654.591	2652.589
47.5	2577.516	2589.528
50.0	2599.537	2612.550
52.5	2607.545	2614.552
55.0	2556.495	2566.505
57.5	2486.427	2500.441
60.0	2411.354	2424.366

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	2280.226	2297.242
<b>65.0</b>	2095.045	2136.085
<b>67.5</b>	1899.854	1966.920
<b>70.0</b>	1692.652	1783.741
<b>72.0</b>	1534.498	1628.590
<b>72.5</b>	1492.457	1583.546
<b>75.0</b>	1243.213	1319.288
<b>77.5</b>	1035.010	1136.109
<b>80.0</b>	957.935	1043.018
<b>82.5</b>	532.520	574.561
<b>85.0</b>	188.184	180.176
<b>87.5</b>	25.024	6.006
<b>90.0</b>	0.000	0.000

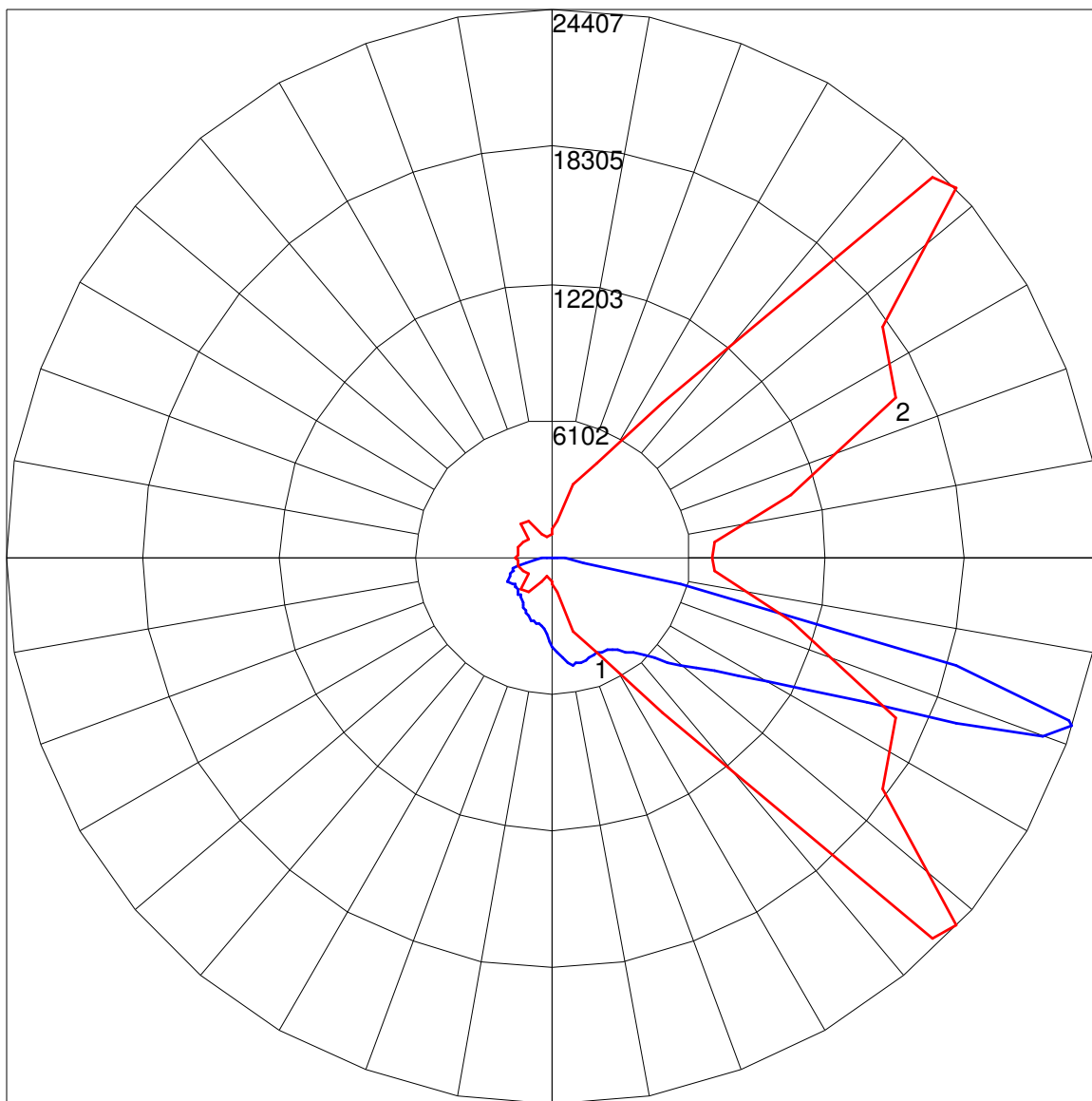
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

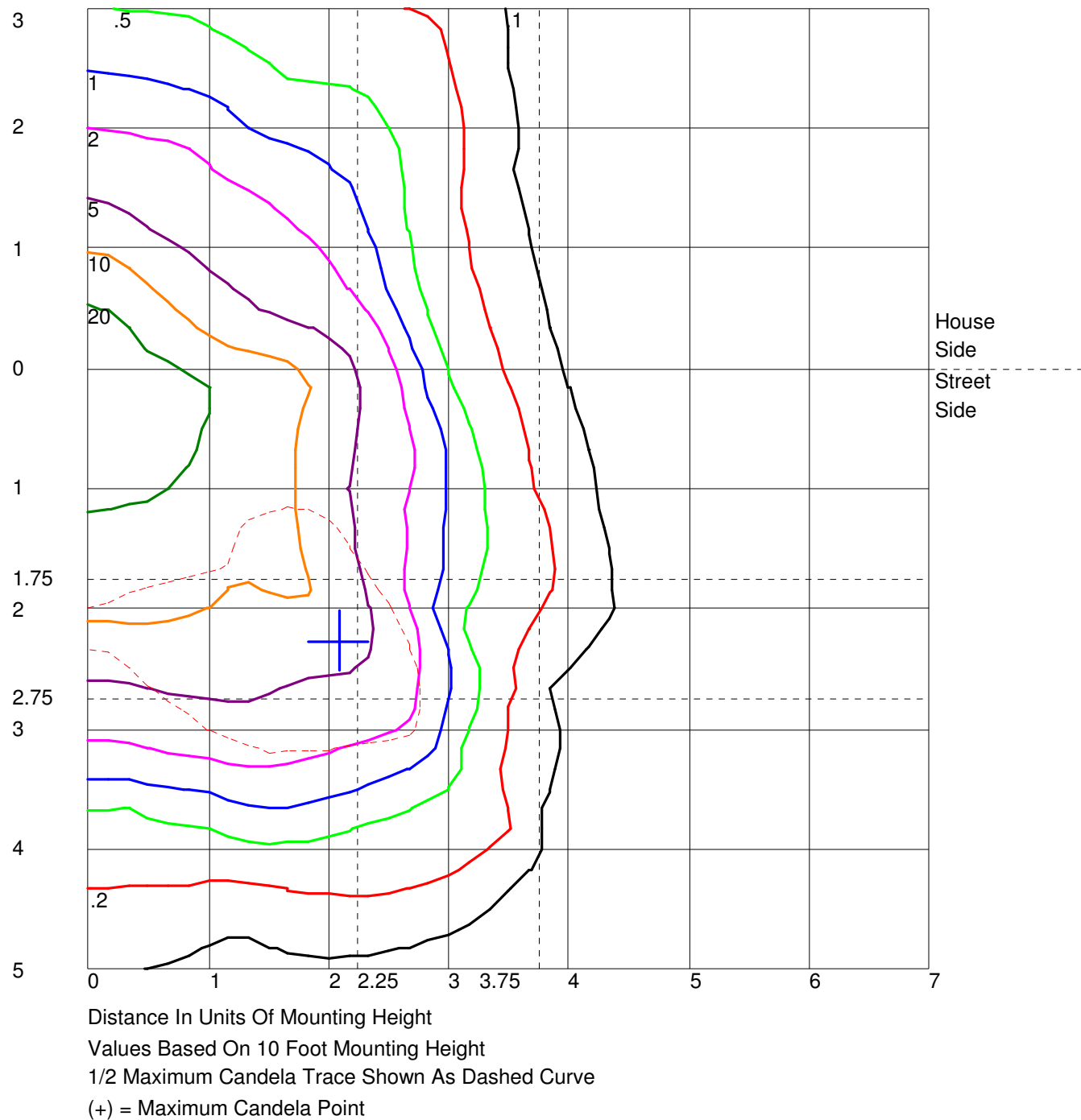
	Lumens	Percent Of Luminaire
Downward Street Side	19187.4	74.9
Downward House Side	6432.9	25.1
Downward Total	25620.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25620.3	100.0

POLAR GRAPH



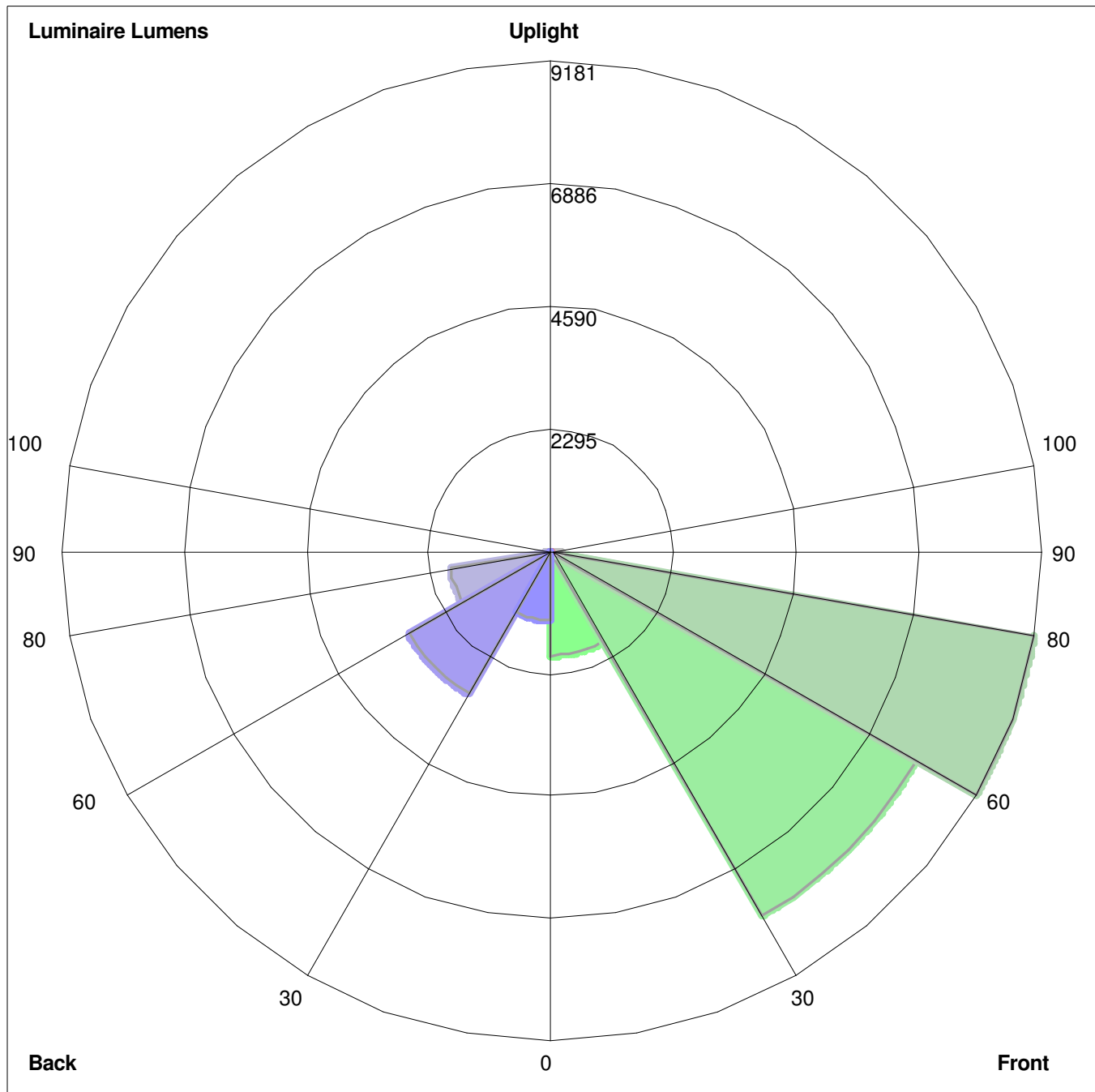
Maximum Candela = 24406.823 Located At Horizontal Angle = 42.5, Vertical Angle = 72  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1957.2, Medium=7887.9, High= 9181.0, Very High=161.4  
Back: Low=1298.5, Medium=3095.1, High=1918.3, Very High=120.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4