



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-740-T2-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011765  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L380-740-T2-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT  
[MORE] WITH TYPE II OPTICS, CLEAR LENS, (2) LED MODULES  
[MORE] AND (2) ELECTRONIC DRIVERS  
[LAMP] LED  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor, Area, Parking  
[ \_SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	40556
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	40684.395
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	40684.395
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 68V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1720.65 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L380-740-T2-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	7212.8	N.A.	17.8
FM - Front-Medium (30-60)	17584.5	N.A.	43.4
FH - Front-High (60-80)	7373.1	N.A.	18.2
FVH - Front-Very High (80-90)	104.8	N.A.	0.3
BL - Back-Low (0-30)	1675.3	N.A.	4.1
BM - Back-Medium (30-60)	3920.1	N.A.	9.7
BH - Back-High (60-80)	2520.0	N.A.	6.2
BVH - Back-Very High (80-90)	165.8	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	40556.4	N.A.	100.0
BUG Rating	B4-U0-G4		

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**CANDELA TABULATION**

Vert. Angles	Horizontal Angles									
	<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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677
2.5	11229.598	11152.554	11097.767	11020.723	10907.725	10676.593	10508.809	10250.283	9962.652	9882.184
5.0	13684.735	13701.856	13558.041	13342.317	13005.036	12484.560	11986.342	11342.596	10637.215	10447.173
7.5	16129.600	16150.145	15939.558	15580.019	15049.271	14246.301	13453.603	12433.198	11325.475	11037.844
10.0	18213.214	18184.108	17952.976	17543.786	16934.282	15944.694	14905.456	13518.663	12006.887	11621.667
12.5	19139.454	19089.804	18983.654	18788.476	18404.968	17485.575	16311.082	14634.945	12722.541	12232.883
15.0	19043.577	19012.760	19009.335	19041.865	19052.138	18678.902	17631.103	15807.727	13525.511	12926.280
17.5	18981.942	18957.973	18957.973	18978.518	19098.364	19207.938	18731.977	17030.159	14438.055	13724.114
20.0	18969.957	18969.957	19038.441	19064.122	19106.925	19319.224	19463.039	18331.348	15482.430	14657.203
22.5	18591.585	18637.812	18862.096	19079.531	19207.938	19350.041	19841.411	19478.448	16615.834	15693.017
25.0	17578.028	17627.679	18031.732	18677.190	19192.529	19487.009	20051.998	20524.535	17860.523	16833.269
27.5	16211.780	16275.128	16708.286	17627.679	18810.733	19577.749	20279.706	21353.187	19124.045	17994.066
30.0	15121.179	15163.981	15598.852	16388.126	17810.872	19411.677	20539.944	21967.827	20367.023	19177.120
32.5	14427.783	14487.706	14862.653	15518.384	16703.150	18937.428	20825.863	22464.332	1562.062	20307.100
35.0	13749.795	13808.006	14232.604	14872.926	15857.378	18233.759	21087.813	22861.538	22553.362	21250.461
37.5	12690.011	12792.737	13308.076	14059.683	15128.027	17598.573	21442.215	23200.532	22352.908	22091.097
40.0	11094.343	11198.781	11876.768	12919.431	14141.864	16715.135	22036.311	23573.767	24111.364	22989.945
42.5	9125.440	9038.123	9782.882	11082.359	12794.449	15431.067	22198.959	24722.580	24813.321	23816.884
45.0	7040.114	6980.191	7490.394	8572.435	10685.154	13938.125	21231.628	26826.738	25436.521	24546.235
47.5	5673.866	5612.231	5867.332	6391.232	7945.810	11762.058	19358.602	28487.466	26794.209	25647.108
50.0	5011.287	4965.061	5042.105	5177.360	5809.121	8207.760	16994.205	29382.889	29489.038	28393.301
52.5	4706.535	4663.733	4675.718	4602.098	4845.215	5543.747	13003.324	30341.659	33693.932	32440.682
55.0	4222.014	4177.500	4376.102	4420.616	4468.555	4715.096	8343.015	30716.607	37505.044	36405.882
57.5	3684.418	3651.888	3883.020	4259.680	4367.542	4436.025	6410.065	28626.145	38712.067	37868.007
60.0	3194.760	3174.215	3413.907	3847.066	4184.348	4196.333	5961.497	24376.738	38325.135	38075.170
62.5	2633.194	2646.891	2958.492	3401.923	3756.325	3795.704	5572.853	19570.901	37974.157	38417.588
65.0	2080.189	2100.734	2448.289	2903.705	3239.274	3239.274	4894.865	14958.530	37849.174	38902.109
67.5	1424.459	1424.459	1847.345	2359.260	2684.557	2672.573	3990.882	11017.299	39362.662	40538.867
68.0	1287.492	1287.492	1674.424	2244.550	2571.559	2556.150	3790.567	10354.720	39573.249	40684.395
70.0	1025.542	1028.966	1153.949	1778.862	2128.128	2114.431	2994.445	7981.764	36907.524	37792.675
72.5	799.546	813.243	905.696	1196.751	1643.606	1671.000	2107.583	5035.257	26241.204	26227.507
75.0	599.232	611.216	691.684	842.348	1272.083	1398.778	1386.793	2527.045	10543.050	9955.803
77.5	417.750	436.583	501.642	609.504	984.452	1254.962	816.667	1234.417	2201.748	2184.627
80.0	277.359	292.767	338.994	397.205	724.214	907.408	499.930	672.851	902.271	921.104
82.5	154.088	164.361	190.042	220.860	445.143	428.023	282.495	349.266	475.961	460.552
85.0	59.923	66.772	77.044	87.317	214.011	148.952	111.286	130.119	178.057	172.921
87.5	6.848	8.560	10.273	10.273	32.530	11.985	10.273	10.273	17.121	17.121
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>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	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677	9385.677
2.5	9668.172	9500.387	9312.058	8961.079	8620.373	8291.652	7969.779	7736.935	7557.165	7423.622
5.0	9897.592	9481.555	9051.820	8233.441	7445.879	6726.802	6096.753	5612.231	5252.692	5004.439
7.5	10123.588	9488.403	8822.400	7536.620	6355.278	5333.160	4521.630	3968.625	3617.646	3432.740
10.0	10375.265	9503.812	8606.677	6886.026	5370.826	4204.893	3506.360	3187.912	3062.929	3001.294
12.5	10673.169	9560.311	8437.180	6298.779	4545.599	3475.543	3098.883	2979.037	2915.689	2872.887
15.0	11013.875	9678.445	8320.757	5766.319	3888.156	3129.701	2956.779	2876.311	2823.236	2792.419
17.5	11450.458	9875.335	8262.546	5276.661	3437.877	2982.461	2864.327	2804.403	2765.025	2730.784
20.0	12003.463	10145.845	8259.122	4858.911	3189.624	2900.280	2797.555	2756.465	2729.071	2689.693
22.5	12588.998	10479.703	8308.773	4502.797	3059.505	2840.357	2749.617	2720.511	2710.238	2664.012
25.0	13224.183	10864.923	8401.226	4204.893	2982.461	2783.858	2711.951	2689.693	2687.981	2622.922

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**CANDELA TABULATION - (Cont.)**

27.5	13919.29211292.9468524.496	3963.488	2917.401	2729.071	2667.436	2657.164	2641.755	2568.135		
30.0	14636.65811726.1058675.160	3768.310	2855.766	2669.148	2610.937	2605.801	2573.271	2501.364		
32.5	15306.08512155.8398820.688	3614.222	2799.267	2607.513	2544.166	2530.469	2473.970	2371.245		
35.0	15884.77112498.2578949.095	3485.815	2742.768	2544.166	2468.834	2414.047	2299.337	2186.339		
37.5	16412.09512847.5239082.638	3371.105	2667.436	2475.682	2352.412	2249.686	2131.552	2087.038		
40.0	17030.15913292.6679303.497	3290.637	2588.680	2376.381	2201.748	2066.493	2032.251	2006.569		
42.5	17545.49813712.1299548.326	3242.698	2513.348	2244.550	2063.068	1929.525	1963.767	1963.767		
45.0	18120.76114191.5149837.669	3218.729	2431.168	2114.431	1907.268	1845.633	1898.708	1939.798		
47.5	18860.38414860.94110291.3733237.562	2340.427	2011.706	1782.286	1772.013	1842.209	1891.859			
50.0	20822.43916677.46911601.1223451.573	2268.519	1920.965	1748.044	1712.090	1789.134	1857.618			
52.5	24232.92219829.42714290.8154184.348	2184.627	1792.558	1741.196	1645.319	1760.029	1854.193			
55.0	27134.91522159.58116448.0494596.962	2020.266	1650.455	1581.971	1580.259	1751.468	1869.602			
57.5	27015.06821822.29916449.7614252.832	1801.119	1508.351	1467.261	1539.169	1748.044	1855.906			
60.0	26263.46120947.42115633.0943547.451	1597.380	1397.065	1388.505	1506.639	1712.090	1783.998			
62.5	25722.44020120.48214948.2582991.021	1422.747	1301.188	1313.173	1463.837	1626.486	1669.288			
65.0	25604.30619565.76514617.8252573.271	1270.371	1198.463	1236.129	1388.505	1496.367	1593.956			
67.5	26295.99119081.24314184.6662153.809	1129.979	1087.177	1159.085	1285.780	1383.369	1936.374			
68.0	26323.38418874.08014056.2592054.508	1104.298	1064.920	1140.252	1261.810	1374.808	2068.205			
70.0	24250.04316259.71912231.1711722.363	1004.997	979.315	1070.056	1160.797	1484.382	2604.089			
72.5	18053.98910777.6077983.476	1184.766	888.575	881.726	967.331	1027.254	1944.934	3098.883		
75.0	6547.032	4458.282	3381.378	823.515	763.592	794.410	856.045	895.423	2369.533	3014.991
77.5	1561.426	1212.160	900.559	563.278	599.232	669.427	734.487	796.122	2330.155	2266.807
80.0	710.517	599.232	484.521	381.796	436.583	532.460	588.959	664.291	1720.650	1522.048
82.5	393.781	357.827	299.616	234.556	292.767	373.236	414.326	457.128	994.724	883.438
85.0	147.240	135.255	124.983	104.437	148.952	188.330	210.587	227.708	486.234	422.886
87.5	11.985	8.560	11.985	11.985	29.106	41.090	49.651	61.635	148.952	92.453
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

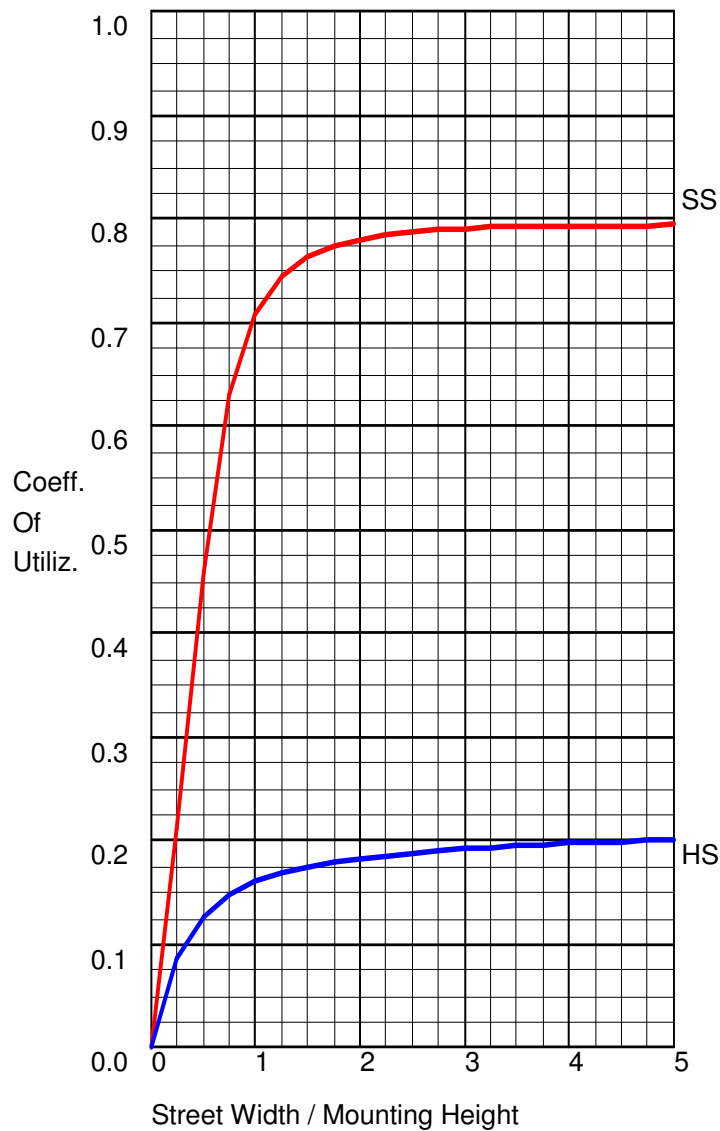
**Vert. Horizontal Angles**  
**Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	9385.677	9385.677
2.5	7356.851	7432.183
5.0	4876.032	4929.107
7.5	3362.545	3384.802
10.0	2980.749	2970.476
12.5	2857.478	2850.630
15.0	2773.586	2770.162
17.5	2711.951	2706.814
20.0	2665.724	2660.588
22.5	2629.770	2621.210
25.0	2576.695	2569.847
27.5	2515.060	2516.772
30.0	2431.168	2424.319
32.5	2268.519	2258.247
35.0	2136.688	2138.400
37.5	2071.629	2090.462
40.0	1994.585	2009.994
42.5	1914.117	1920.965
45.0	1891.859	1859.330
47.5	1843.921	1826.800
50.0	1811.391	1831.936
52.5	1838.785	1866.178
55.0	1874.739	1902.132
57.5	1873.026	1898.708
60.0	1813.103	1835.360

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L380-740-T2-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	1715.514	1744.620
<b>65.0</b>	1725.787	1792.558
<b>67.5</b>	2148.673	2244.550
<b>68.0</b>	2247.974	2343.851
<b>70.0</b>	2564.711	2658.876
<b>72.5</b>	2746.192	2818.100
<b>75.0</b>	2383.229	2384.941
<b>77.5</b>	1693.257	1629.910
<b>80.0</b>	1119.707	1049.511
<b>82.5</b>	674.563	638.610
<b>85.0</b>	236.268	188.330
<b>87.5</b>	35.954	10.273
<b>90.0</b>	0.000	0.000

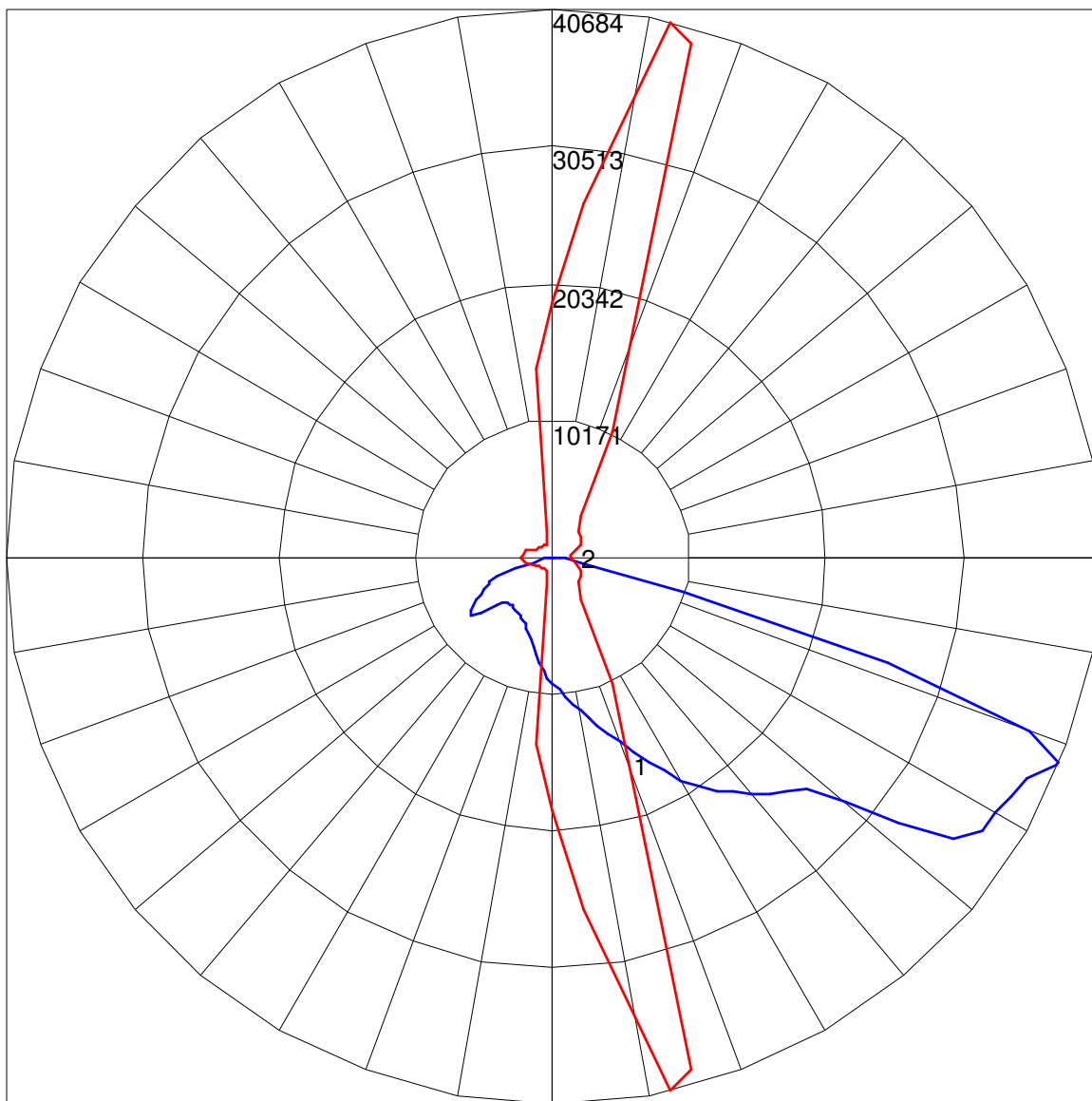
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

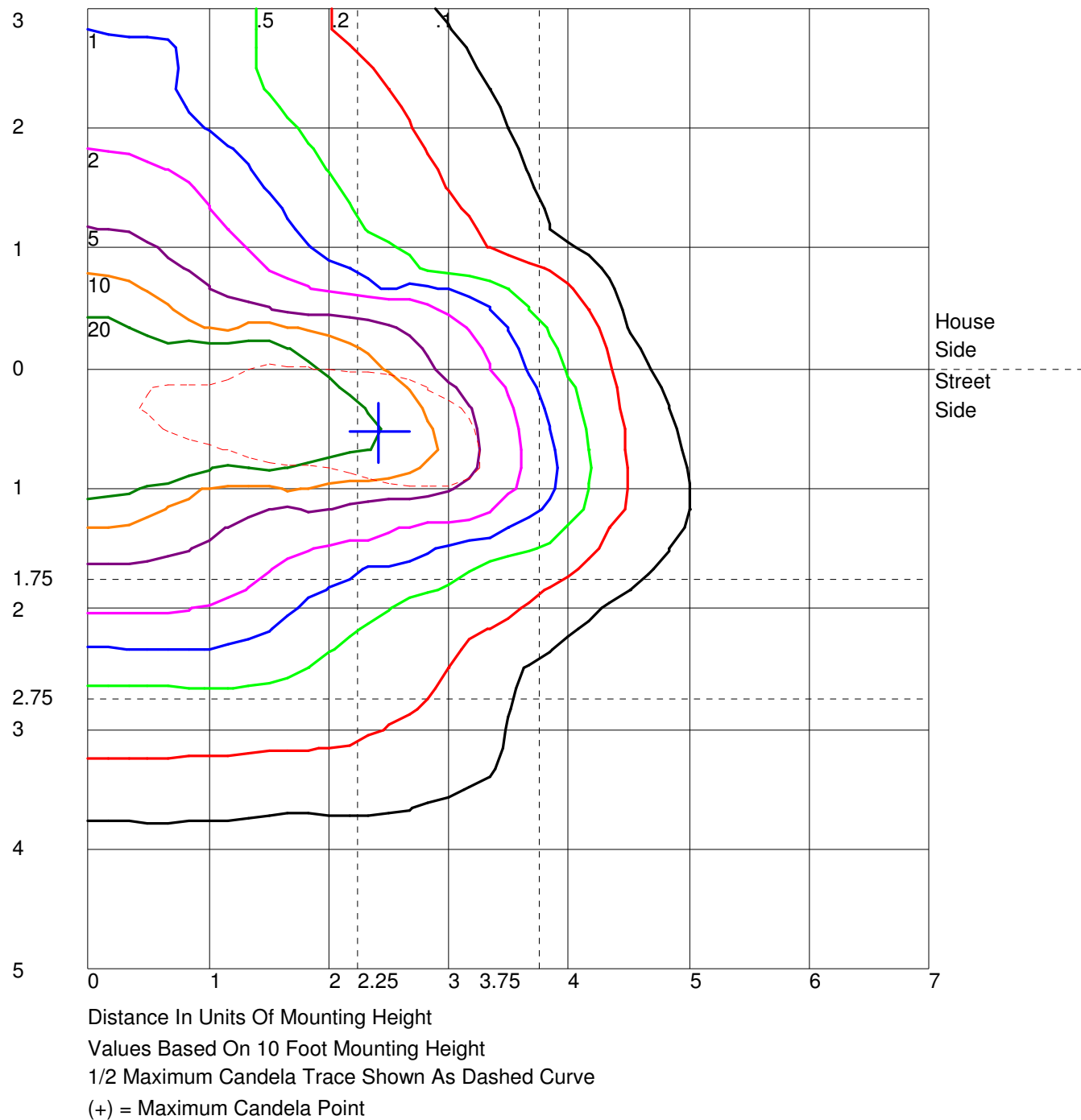
	Lumens	Percent Of Luminaire
Downward Street Side	32275.3	79.6
Downward House Side	8281.1	20.4
Downward Total	40556.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	40556.4	100.0

POLAR GRAPH



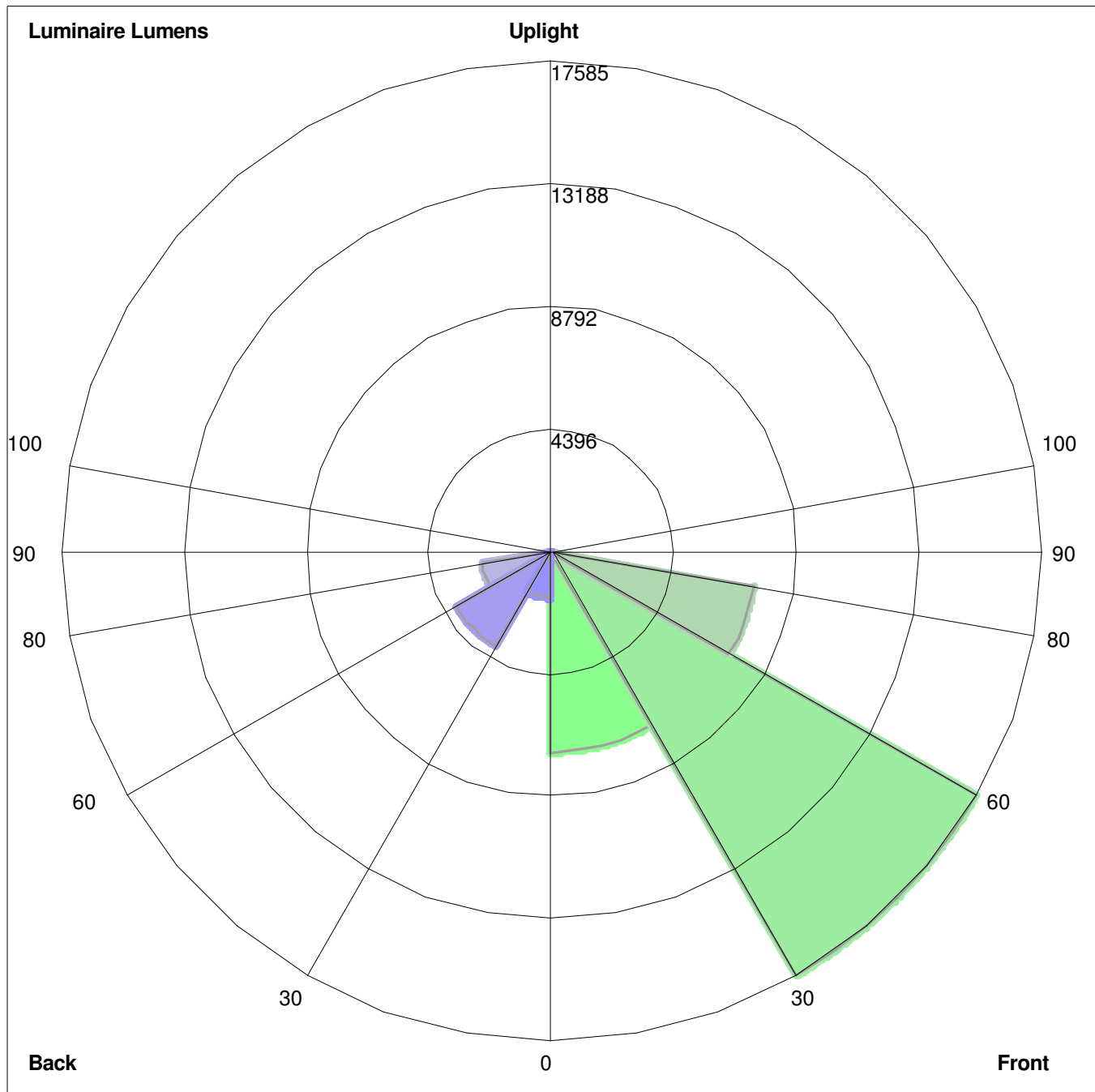
Maximum Candela = 40684.395 Located At Horizontal Angle = 77.5, Vertical Angle = 68  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=7212.8, Medium=17584.5, High=7373.1, Very High=104.8  
Back: Low=1675.3, Medium=3920.1, High= 2520.0, Very High=165.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4