



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L110-730-T3-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011760  
[TESTLAB] ATA-LABS  
[ISSUE DATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA1-L110-730-T3-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE  
[MORE] III OPTICS AND CLEAR LENS  
[LAMP] LED  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor, Architectural, Area, Parking, Site  
[SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10309
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	88
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7389.617
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	7389.617
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	1507.1 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L110-730-T3-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1040.3	N.A.	10.1
FM - Front-Medium (30-60)	3603.3	N.A.	35.0
FH - Front-High (60-80)	2407.8	N.A.	23.4
FVH - Front-Very High (80-90)	73.5	N.A.	0.7
BL - Back-Low (0-30)	564.7	N.A.	5.5
BM - Back-Medium (30-60)	1339.1	N.A.	13.0
BH - Back-High (60-80)	1173.2	N.A.	11.4
BVH - Back-Very High (80-90)	107.1	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	10309.0	N.A.	100.0
BUG Rating	B3-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>62.5</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575
<b>2.5</b>	2260.915	2245.001	2241.287	2240.757	2229.617	2224.312	2207.867	2199.910	2193.013	2179.221
<b>5.0</b>	2376.030	2361.707	2354.280	2346.853	2327.756	2310.250	2281.073	2256.141	2245.001	2208.928
<b>7.5</b>	2417.938	2405.737	2399.901	2399.901	2394.066	2380.804	2346.323	2312.902	2300.171	2244.470
<b>10.0</b>	2393.005	2386.109	2380.274	2387.700	2397.249	2409.450	2398.840	2367.011	2355.871	2286.909
<b>12.5</b>	2373.377	2369.133	2362.237	2370.194	2380.274	2402.554	2417.407	2407.328	2402.554	2332.530
<b>15.0</b>	2380.804	2377.621	2367.011	2367.542	2372.847	2395.127	2422.712	2432.791	2436.505	2387.170
<b>17.5</b>	2418.999	2415.816	2400.962	2392.475	2386.109	2403.084	2433.852	2455.602	2464.620	2441.809
<b>20.0</b>	2466.742	2468.334	2449.767	2440.748	2425.895	2433.322	2458.785	2486.900	2495.919	2495.919
<b>22.5</b>	2517.138	2517.138	2502.815	2496.449	2487.961	2486.900	2501.223	2530.930	2537.827	2550.558
<b>25.0</b>	2556.394	2556.924	2548.967	2548.436	2556.924	2559.046	2560.637	2580.265	2588.223	2603.607
<b>27.5</b>	2589.283	2591.405	2579.204	2589.283	2620.051	2640.740	2637.557	2636.496	2644.984	2655.594
<b>30.0</b>	2625.887	2623.765	2610.503	2613.155	2667.264	2731.453	2729.331	2704.929	2706.520	2708.111
<b>32.5</b>	2629.070	2629.600	2627.478	2636.496	2696.441	2823.226	2830.653	2790.867	2780.257	2760.099
<b>35.0</b>	2608.381	2611.564	2624.826	2664.612	2741.001	2907.042	2956.908	2895.372	2871.500	2807.842
<b>37.5</b>	2579.735	2584.509	2605.198	2700.154	2855.586	2995.102	3096.955	3012.608	2966.456	2840.732
<b>40.0</b>	2547.375	2555.333	2590.875	2789.275	3156.369	3343.099	3287.398	3146.290	3079.449	2874.683
<b>42.5</b>	2501.223	2516.077	2560.107	2741.001	3162.204	3691.095	3757.405	3422.140	3291.642	2930.384
<b>45.0</b>	2591.405	2598.832	2578.143	2700.685	3080.510	3643.882	4067.207	3938.830	3788.704	3129.314
<b>47.5</b>	2855.586	2848.159	2813.677	2835.958	3052.394	3510.201	4059.250	4177.547	4140.944	3638.047
<b>50.0</b>	2846.037	2835.427	2901.737	3052.394	3182.893	3459.805	3861.380	4071.451	4060.311	3704.357
<b>52.5</b>	2592.997	2583.979	2748.428	3068.839	3407.287	3612.584	3780.216	3910.715	3914.958	3589.773
<b>55.0</b>	2001.509	2016.893	2325.103	2945.768	3595.608	4058.189	4005.140	3983.921	3984.452	3674.650
<b>57.5</b>	1498.612	1538.929	1814.780	2526.687	3601.974	4741.450	4620.500	4284.705	4238.022	3827.429
<b>60.0</b>	1208.969	1232.841	1386.680	1772.871	3121.357	5161.061	5775.890	4877.784	4730.840	4139.352
<b>62.5</b>	873.704	896.515	979.801	1162.817	2171.264	4868.235	6898.390	5913.815	5585.447	4667.182
<b>65.0</b>	699.706	713.499	766.016	808.455	1214.274	4019.463	6958.865	7003.956	6628.905	5314.370
<b>67.5</b>	612.707	616.420	686.444	697.054	745.858	2265.689	6194.971	7389.617	7301.026	5706.397
<b>70.0</b>	485.922	476.903	578.226	608.994	576.634	1107.116	4695.828	6627.314	6838.446	5783.317
<b>72.5</b>	342.161	333.143	372.929	517.751	454.623	629.152	2599.363	5044.885	5432.668	5218.353
<b>75.0</b>	264.180	261.528	265.241	398.923	377.173	407.941	1137.354	3062.474	3460.866	3484.207
<b>77.5</b>	182.486	180.364	184.608	265.772	321.472	281.156	488.574	1220.639	1623.275	2269.403
<b>80.0</b>	117.767	115.645	121.480	167.632	281.156	185.138	255.692	467.885	689.096	1507.100
<b>82.5</b>	64.188	62.066	69.493	99.200	186.730	102.914	134.212	199.461	249.327	690.157
<b>85.0</b>	27.055	25.463	30.237	45.091	66.310	42.969	54.640	71.085	80.633	151.718
<b>87.5</b>	5.305	5.305	5.835	10.079	12.201	9.018	10.610	13.793	14.854	18.036
<b>90.0</b>	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><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575	2150.575
<b>2.5</b>	2160.123	2152.697	2145.800	2124.051	2108.136	2084.264	2061.984	2056.679	2034.930	2026.442
<b>5.0</b>	2167.020	2144.739	2126.703	2078.960	2031.216	1976.046	1921.937	1886.395	1837.060	1810.005
<b>7.5</b>	2180.282	2144.739	2114.502	2035.991	1950.583	1848.200	1738.921	1640.781	1521.423	1468.375
<b>10.0</b>	2199.910	2152.697	2107.606	1996.204	1861.992	1680.568	1467.844	1291.194	1168.122	1115.074
<b>12.5</b>	2225.373	2167.020	2105.484	1955.357	1754.835	1455.643	1192.524	1094.385	1073.165	1065.739
<b>15.0</b>	2258.793	2188.769	2111.850	1916.102	1618.501	1233.902	1090.671	1069.452	1062.556	1062.025
<b>17.5</b>	2299.110	2217.415	2125.112	1874.194	1450.869	1111.891	1075.287	1065.739	1061.495	1059.373
<b>20.0</b>	2343.670	2252.427	2144.739	1825.920	1286.419	1081.123	1067.861	1060.964	1049.294	1038.154
<b>22.5</b>	2395.657	2295.396	2168.081	1768.097	1168.652	1071.574	1057.251	1041.337	1025.422	1010.038
<b>25.0</b>	2451.889	2337.835	2190.891	1700.195	1115.074	1063.617	1038.154	1013.221	994.654	977.148
<b>27.5</b>	2513.425	2381.865	2207.867	1621.154	1095.976	1052.477	1012.690	982.983	963.886	944.789

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**CANDELA TABULATION - (Cont.)**

30.0	2577.082	2429.078	2230.147	1539.459	1082.714	1034.440	985.636	950.624	930.466	915.082
32.5	2638.618	2480.535	2255.610	1464.131	1068.922	1011.099	956.459	917.204	900.759	889.088
35.0	2684.770	2513.955	2273.647	1391.985	1049.824	983.514	930.466	884.314	868.930	863.094
37.5	2701.746	2517.138	2269.933	1332.041	1026.483	954.337	903.411	857.259	840.284	829.674
40.0	2718.721	2525.626	2268.872	1290.663	1006.325	926.752	880.070	831.266	809.516	795.723
42.5	2741.532	2543.662	2280.012	1259.895	988.288	902.881	859.381	808.985	774.504	758.590
45.0	2864.073	2673.100	2382.395	1272.627	978.740	883.253	843.467	788.827	741.084	724.639
47.5	3200.399	2962.212	2658.246	1455.643	1054.068	878.478	833.918	782.992	723.578	709.785
50.0	3267.240	3024.279	2711.825	1572.349	1254.590	978.740	837.101	790.949	745.858	777.156
52.5	3185.015	2944.707	2637.027	1436.015	1187.750	1111.891	906.594	798.906	811.107	937.362
55.0	3279.441	3055.577	2784.501	1500.734	1072.635	978.740	966.008	814.290	872.113	1092.263
57.5	3416.305	3218.435	3026.931	1795.152	1058.312	878.478	840.814	810.577	900.759	1165.469
60.0	3623.193	3411.000	3326.123	2217.415	1083.775	828.613	743.206	726.230	889.619	1110.299
62.5	3938.300	3679.424	3631.681	2630.661	1148.494	787.766	680.078	673.182	847.180	988.288
65.0	4236.961	3846.526	3743.613	2799.885	1281.645	753.285	624.378	627.030	788.297	851.954
67.5	4346.240	3916.019	3813.636	2848.159	1436.015	708.194	568.677	572.390	700.236	742.145
70.0	4255.528	3900.105	3867.746	2798.293	1571.819	666.286	501.836	506.610	617.481	650.902
72.5	3721.863	3453.439	3497.999	2602.546	1657.226	622.786	432.873	433.404	531.543	550.640
75.0	2311.841	2169.142	2255.610	2126.703	1646.617	590.957	356.484	358.075	442.422	416.429
77.5	1546.886	1380.845	1432.302	1677.915	1537.337	558.067	283.277	280.625	342.161	223.863
80.0	1143.189	999.959	1072.104	1287.480	1354.321	524.116	193.626	201.583	229.699	112.462
82.5	457.276	422.264	487.513	725.700	1021.709	430.752	97.078	122.011	116.176	63.658
85.0	62.597	51.457	69.493	201.583	517.751	257.284	38.725	42.439	35.012	27.055
87.5	11.140	8.488	9.549	16.445	116.176	73.207	7.957	7.957	4.774	2.652
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

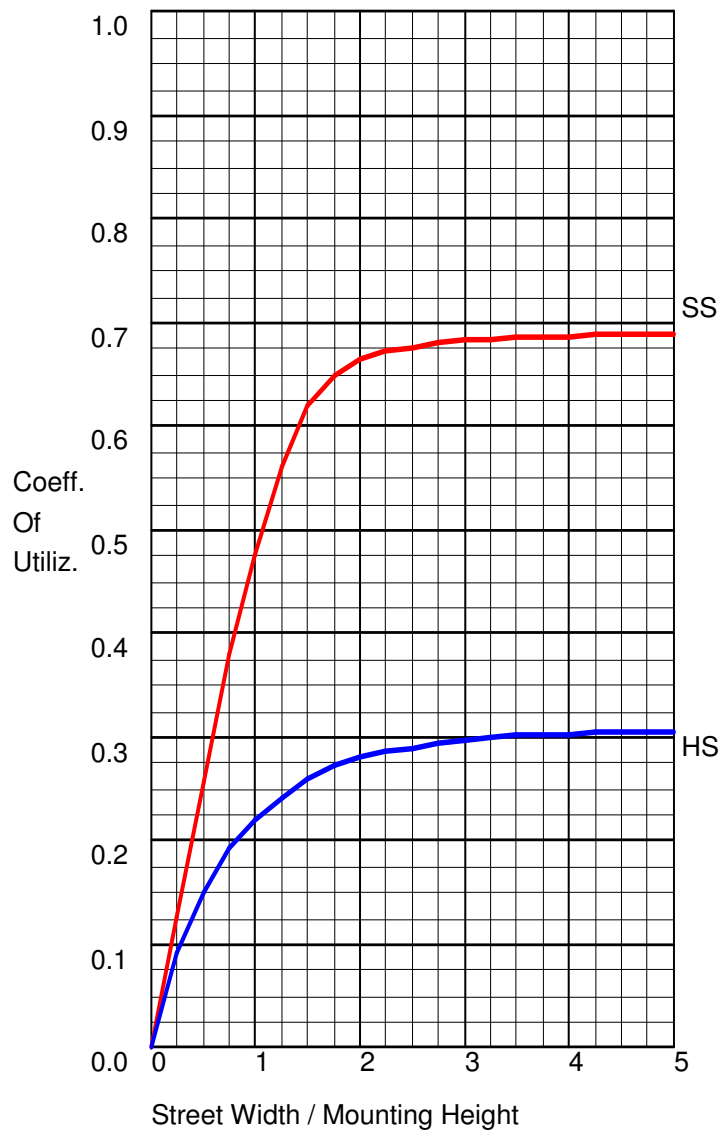
**Vert. Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	2150.575	2150.575
2.5	2025.381	2020.607
5.0	1804.170	1797.804
7.5	1427.528	1422.223
10.0	1098.098	1095.976
12.5	1064.147	1063.086
15.0	1063.617	1064.147
17.5	1058.312	1057.251
20.0	1033.379	1031.788
22.5	1003.142	1000.489
25.0	969.191	966.008
27.5	935.771	935.240
30.0	907.125	905.533
32.5	879.539	877.948
35.0	853.015	850.893
37.5	819.595	818.004
40.0	783.522	783.522
42.5	742.675	742.145
45.0	711.377	709.255
47.5	696.523	697.584
50.0	790.418	800.498
52.5	997.837	1011.630
55.0	1215.865	1238.145
57.5	1336.285	1365.992
60.0	1214.804	1219.048
62.5	1014.812	1002.081
65.0	822.247	803.150

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L110-730-T3-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	681.139	677.426
<b>70.0</b>	577.695	573.982
<b>72.5</b>	478.495	473.721
<b>75.0</b>	308.741	306.088
<b>77.5</b>	180.364	175.590
<b>80.0</b>	117.767	115.645
<b>82.5</b>	73.207	72.146
<b>85.0</b>	15.384	14.323
<b>87.5</b>	0.530	0.000
<b>90.0</b>	0.000	0.000

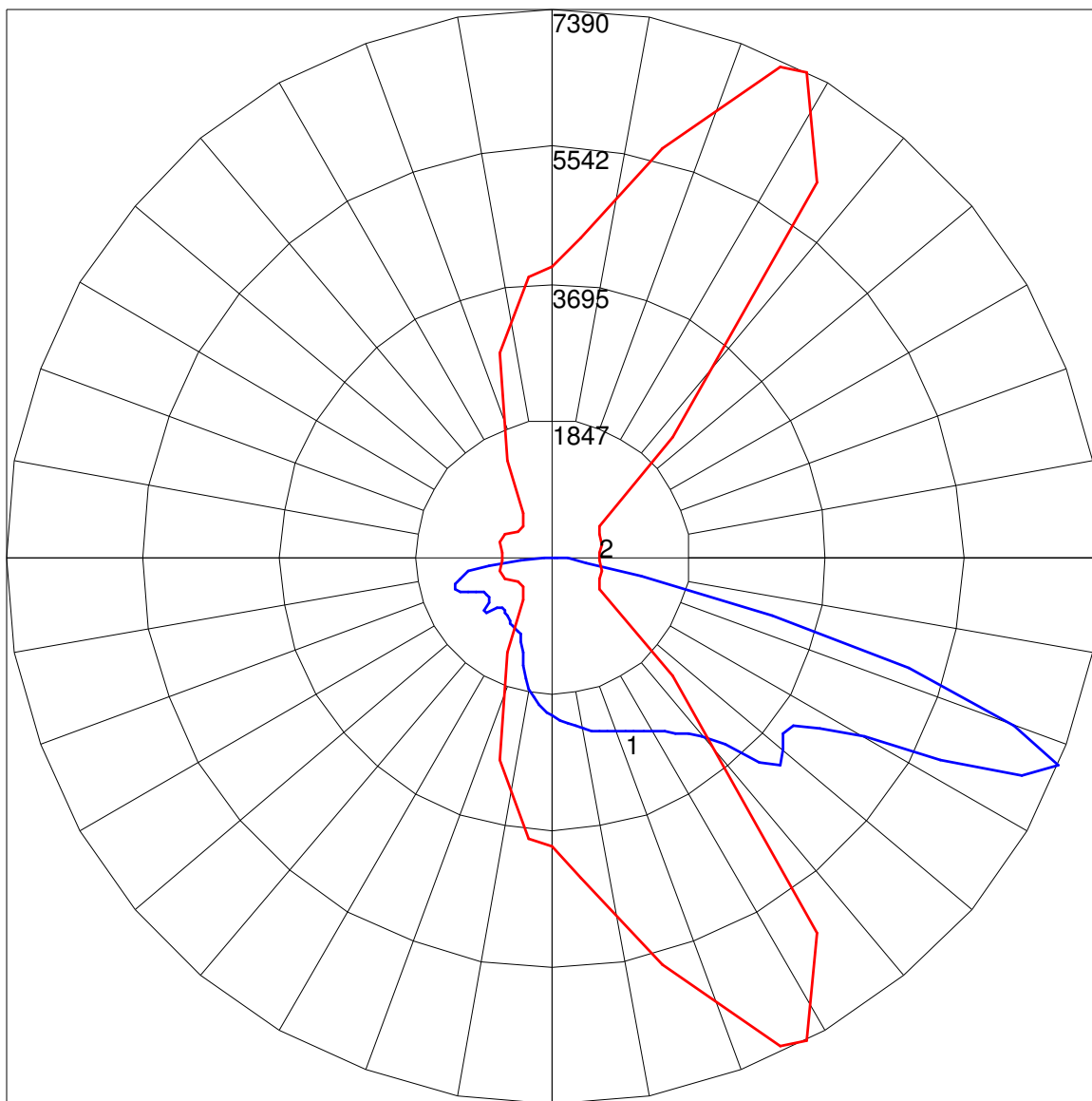
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

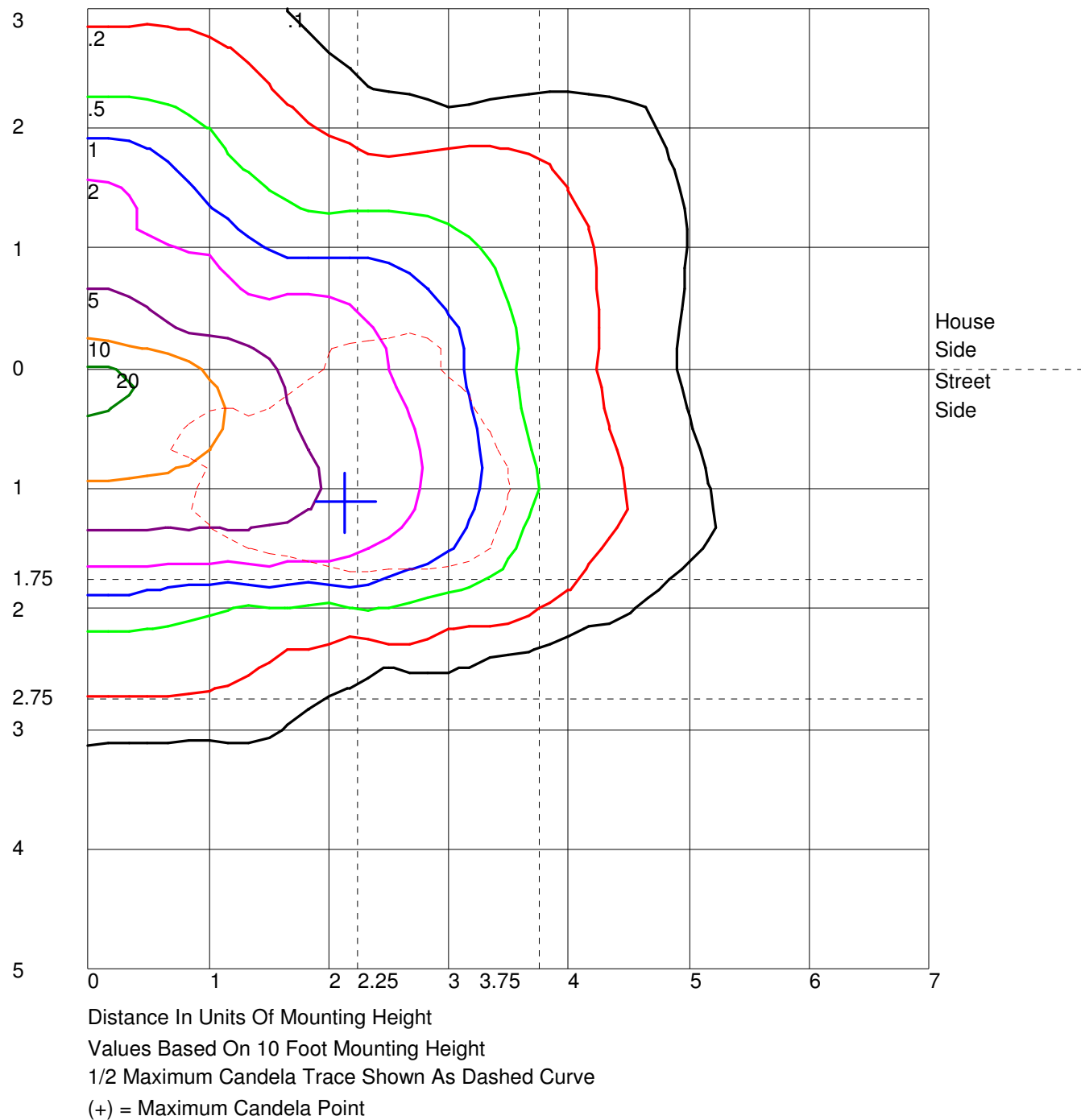
	Lumens	Percent Of Luminaire
Downward Street Side	7124.9	69.1
Downward House Side	3184.3	30.9
Downward Total	10309.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10309.2	100.0

POLAR GRAPH



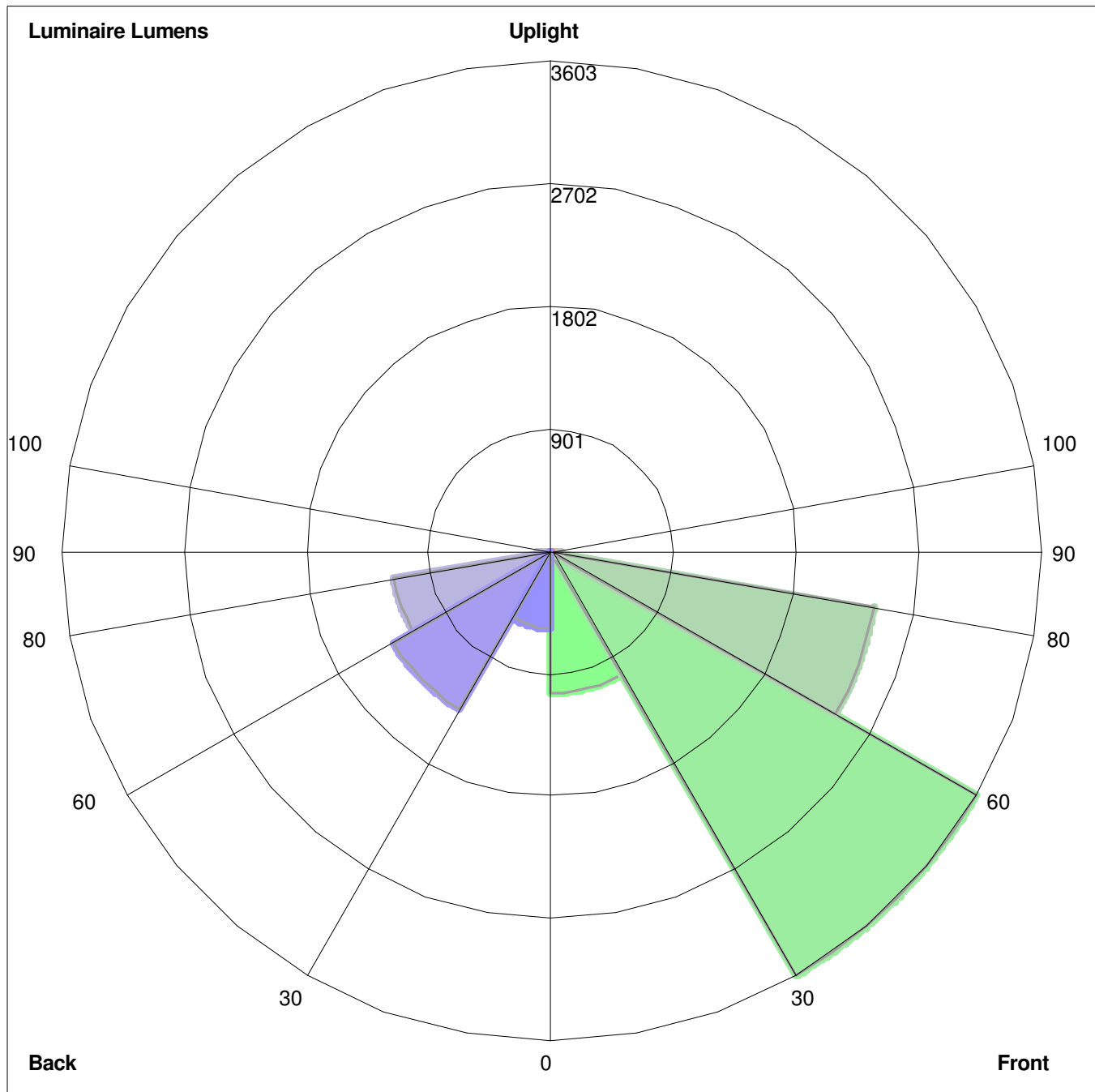
Maximum Candela = 7389.617 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1040.3, Medium=3603.3, High=2407.8, Very High=73.5  
Back: Low=564.7, Medium=1339.1, High=1173.2, Very High=107.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3