



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-740-T2-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011757
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L83-740-T2-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE II
[MORE] OPTICS, CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[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	8900
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9024.864
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	9024.864
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	344.664 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-740-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1608.6	N.A.	18.1
FM - Front-Medium (30-60)	3897.5	N.A.	43.8
FH - Front-High (60-80)	1575.9	N.A.	17.7
FVH - Front-Very High (80-90)	23.0	N.A.	0.3
BL - Back-Low (0-30)	359.9	N.A.	4.0
BM - Back-Medium (30-60)	857.0	N.A.	9.6
BH - Back-High (60-80)	546.6	N.A.	6.1
BVH - Back-Very High (80-90)	31.1	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	8899.6	N.A.	100.0
BUG Rating	B2-U0-G2		

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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	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213
2.5	2435.563	2389.265	2391.603	2343.434	2317.245	2271.883	2220.440	2152.162	2090.431	2067.516
5.0	2979.917	2949.051	2934.086	2851.779	2780.695	2670.795	2545.930	2395.812	2241.953	2193.784
7.5	3542.509	3514.450	3479.843	3361.993	3235.258	3060.822	2864.405	2636.188	2387.394	2324.260
10.0	4056.933	4020.456	3975.561	3845.552	3686.548	3460.669	3200.651	2871.420	2538.915	2451.931
12.5	4374.941	4359.040	4321.160	4226.225	4076.107	3834.796	3529.415	3113.667	2696.516	2588.955
15.0	4388.035	4388.035	4385.229	4393.179	4339.866	4158.415	3846.955	3392.859	2867.211	2738.138
17.5	4318.354	4316.016	4313.678	4350.155	4402.533	4380.553	4142.982	3665.971	3059.886	2907.430
20.0	4332.851	4332.384	4334.254	4337.996	4366.055	4440.413	4392.244	3963.402	3282.024	3100.573
22.5	4279.071	4284.215	4318.354	4363.717	4378.214	4417.498	4545.168	4264.106	3535.027	3322.710
25.0	4060.207	4070.495	4152.803	4305.260	4391.776	4425.448	4600.820	4559.198	3808.607	3568.698
27.5	3695.434	3707.593	3854.905	4082.187	4326.304	4452.104	4618.591	4809.863	4090.605	3824.507
30.0	3386.312	3401.277	3506.032	3739.861	4111.182	4441.348	4657.406	5004.408	4360.443	4079.849
32.5	3206.263	3221.228	3316.163	3478.440	3789.901	4340.334	4713.525	5127.870	4637.765	4325.837
35.0	3072.045	3082.802	3174.463	3325.516	3537.833	4138.306	4769.176	5194.278	4881.882	4544.701
37.5	2872.823	2882.176	2995.817	3169.786	3370.879	3921.780	4808.460	5233.561	5096.537	4743.923
40.0	2526.289	2538.448	2682.954	2912.574	3173.060	3711.334	4909.941	5270.973	5297.630	4959.981
42.5	2030.571	2040.860	2225.117	2488.876	2879.838	3429.336	5036.677	5402.385	5482.355	5152.656
45.0	1569.460	1573.669	1689.648	1895.418	2401.892	3094.025	4866.449	5843.387	5632.473	5348.137
47.5	1265.483	1264.547	1318.796	1405.780	1716.773	2609.064	4388.035	6354.537	5843.855	5574.951
50.0	1121.912	1116.767	1124.250	1144.359	1264.080	1722.384	3807.204	6622.973	6461.631	6152.976
52.5	1062.051	1057.375	1040.071	1009.206	1067.663	1184.110	2885.918	6913.856	7443.713	7106.064
55.0	954.022	957.764	983.017	963.843	965.714	1019.962	1739.220	7037.785	8307.945	7998.823
57.5	822.143	825.884	867.506	941.863	940.460	947.007	1380.059	6534.585	8568.898	8324.313
60.0	714.114	719.258	760.880	849.735	909.127	893.227	1296.348	5570.275	8510.441	8409.426
62.5	589.717	598.602	657.060	753.397	811.387	808.113	1187.851	4500.273	8428.600	8487.058
65.0	466.723	476.544	542.951	645.368	702.890	688.860	1021.833	3325.984	8398.670	8594.151
67.5	330.167	338.584	413.410	523.309	582.234	565.866	813.725	2308.360	8729.772	9004.755
68.0	296.495	302.575	382.544	497.120	557.916	541.080	768.830	2145.615	8748.011	9024.864
70.0	240.376	243.182	267.033	394.703	462.514	448.484	597.667	1576.943	7961.878	8185.886
72.5	188.934	191.272	210.446	279.192	363.370	362.435	420.892	959.167	5354.217	5485.161
75.0	141.233	144.039	161.342	195.949	288.545	314.266	280.127	494.782	1874.841	1866.891
77.5	99.143	102.885	119.253	143.571	225.411	290.883	171.163	261.421	397.042	409.668
80.0	65.940	69.213	81.372	92.596	169.292	216.058	101.949	143.571	182.854	187.063
82.5	39.751	39.751	46.766	52.845	105.223	95.870	54.248	72.955	94.467	91.193
85.0	16.836	16.836	19.642	22.448	51.910	33.204	22.915	26.189	35.542	34.607
87.5	3.274	3.274	3.741	3.741	9.821	4.209	2.806	3.741	4.209	4.209
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	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213	1956.213
2.5	2006.721	1966.970	1928.622	1840.702	1760.732	1674.683	1632.126	1572.266	1508.665	1507.262
5.0	2055.825	1963.228	1869.697	1671.410	1485.282	1311.781	1191.125	1084.967	1002.659	976.470
7.5	2109.138	1965.099	1819.190	1508.665	1245.841	1016.221	890.421	807.645	759.944	744.044
10.0	2166.660	1973.984	1775.230	1361.820	1039.136	835.705	751.526	714.114	694.004	684.184
12.5	2232.132	1989.417	1738.752	1230.408	894.630	746.850	701.487	678.104	663.607	656.592
15.0	2309.763	2018.880	1713.031	1114.429	796.422	705.228	673.428	655.657	644.433	638.353
17.5	2402.359	2059.098	1696.663	1020.897	744.044	681.378	654.254	641.627	632.274	625.259
20.0	2513.662	2115.217	1692.454	947.475	717.855	665.945	641.627	632.274	625.726	615.906
22.5	2642.268	2188.640	1697.131	891.356	701.955	653.786	633.209	625.726	621.985	610.761
25.0	2788.645	2270.012	1713.499	848.332	687.457	642.562	624.791	619.647	617.776	598.135

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CANDELA TABULATION - (Cont.)

27.5	2940.634	2361.673	1737.817	816.063	672.492	629.468	614.970	612.164	604.682	583.170
30.0	3098.234	2462.687	1768.683	792.680	658.930	616.373	602.344	600.005	589.249	569.607
32.5	3247.417	2558.557	1803.757	775.845	645.836	601.876	587.378	582.234	563.996	518.165
35.0	3371.347	2638.059	1834.622	760.412	632.741	585.975	571.010	548.563	509.747	475.608
37.5	3473.764	2716.625	1866.423	744.979	614.503	570.075	536.404	500.862	469.061	457.370
40.0	3604.708	2816.704	1914.592	733.755	595.796	544.822	493.847	451.290	450.355	440.534
42.5	3721.155	2908.365	1975.387	726.741	576.155	508.812	463.449	426.036	432.584	436.793
45.0	3851.164	3020.603	2050.680	722.532	555.110	477.479	415.280	406.862	420.425	427.439
47.5	4021.391	3173.995	2165.257	727.676	532.662	457.370	397.977	392.365	406.862	417.151
50.0	4504.950	3616.399	2494.488	775.845	514.891	441.469	395.639	379.738	396.574	412.942
52.5	5287.341	4305.260	3080.463	916.610	490.573	400.315	401.251	362.903	392.365	416.683
55.0	5869.576	4836.519	3566.360	980.211	443.807	359.161	353.082	351.211	394.236	423.231
57.5	5745.646	4767.306	3530.350	882.938	394.703	330.167	326.425	344.196	396.106	420.425
60.0	5546.892	4591.934	3348.899	722.999	348.405	304.913	307.719	339.520	387.688	402.654
62.5	5364.505	4412.821	3217.019	602.811	307.251	284.804	291.351	329.699	365.709	375.529
65.0	5274.247	4302.454	3153.886	513.488	270.306	261.421	274.515	311.460	335.778	369.450
67.5	5297.630	4177.121	3060.822	421.828	238.038	235.700	256.277	286.674	311.460	491.041
68.0	5266.297	4110.714	3024.344	399.848	232.426	230.555	252.068	281.062	314.266	521.439
70.0	4707.446	3387.247	2562.298	325.490	210.914	210.914	234.297	257.680	370.853	633.209
72.5	3383.506	2157.306	1642.415	225.879	183.790	189.401	209.511	226.346	491.976	722.064
75.0	1093.852	790.342	715.049	158.536	153.392	166.486	183.790	199.222	563.060	659.865
77.5	272.177	209.511	168.357	105.223	117.850	136.556	151.989	177.710	518.165	481.688
80.0	135.153	109.432	90.726	70.149	81.840	102.417	115.512	137.024	344.664	309.122
82.5	74.825	62.666	50.039	40.686	51.910	69.213	74.825	86.984	198.287	183.790
85.0	27.124	24.318	20.109	16.836	24.786	29.930	34.139	37.413	89.790	79.502
87.5	2.338	2.338	1.403	0.935	3.741	5.612	6.080	7.483	20.577	9.821
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

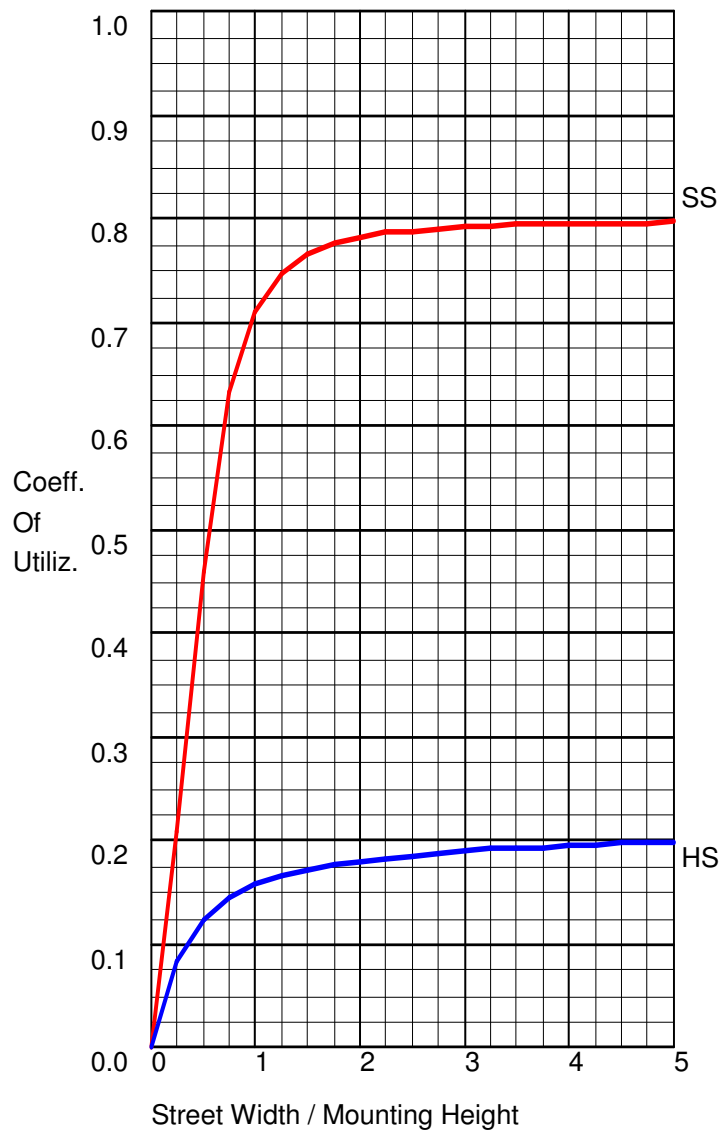
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1956.213	1956.213
2.5	1445.531	1473.123
5.0	926.898	941.863
7.5	728.144	730.949
10.0	676.701	677.169
12.5	651.448	651.448
15.0	635.080	635.547
17.5	621.985	622.453
20.0	610.761	610.761
22.5	602.811	602.811
25.0	585.508	585.975
27.5	572.413	572.881
30.0	544.822	545.289
32.5	495.717	494.315
35.0	465.320	466.255
37.5	451.290	453.628
40.0	433.051	436.793
42.5	421.828	421.360
45.0	418.554	407.798
47.5	404.524	404.524
50.0	403.589	410.136
52.5	414.813	422.295
55.0	426.504	433.051
57.5	425.101	430.713
60.0	409.201	415.280

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-740-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	387.221	395.171
65.0	421.828	441.469
67.5	532.195	551.369
68.0	550.433	568.672
70.0	612.164	631.806
72.5	624.791	634.612
75.0	515.359	535.936
77.5	354.017	355.888
80.0	227.749	224.944
82.5	137.491	140.765
85.0	32.268	36.010
87.5	1.871	0.000
90.0	0.000	0.000

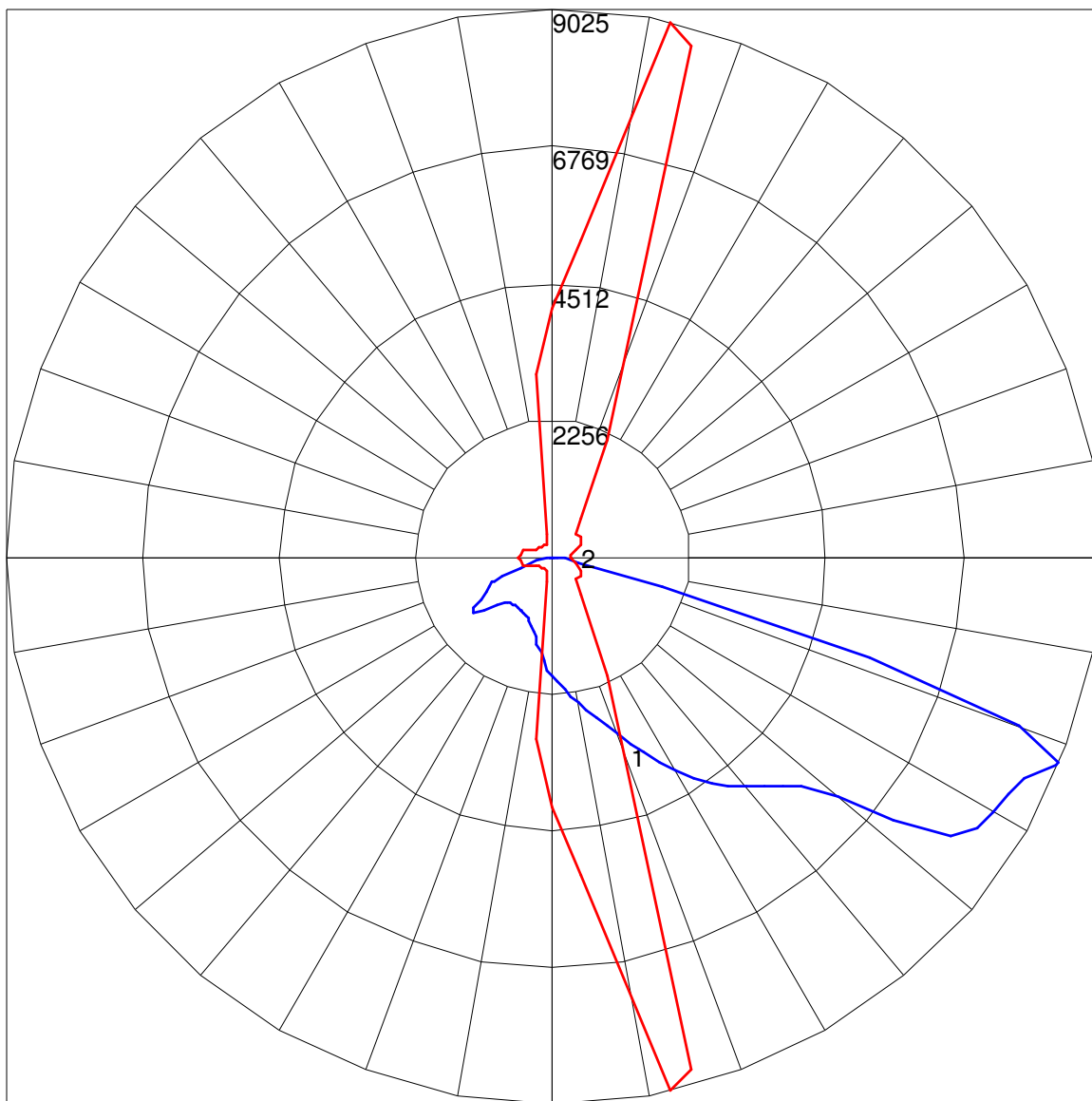
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

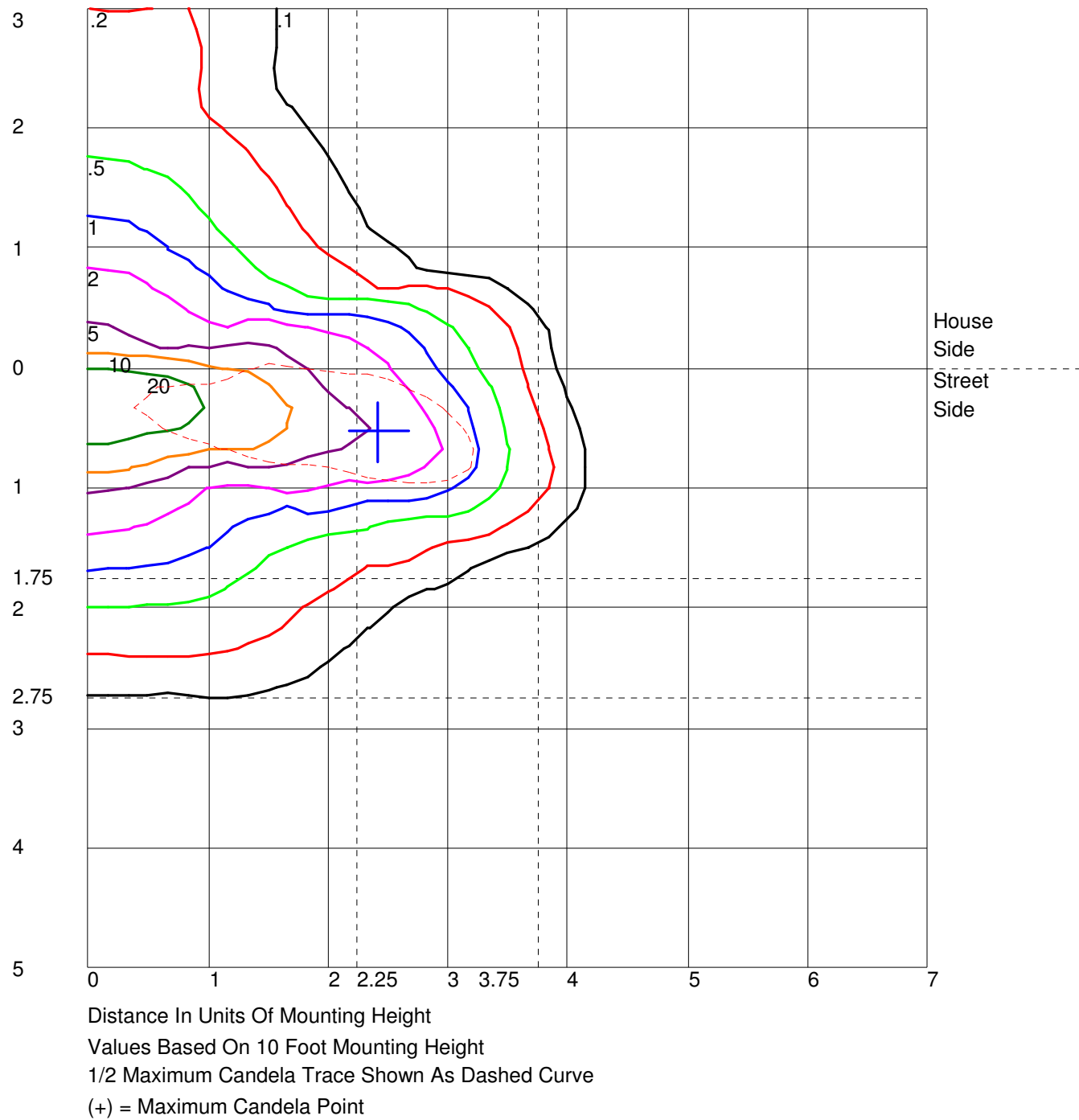
	Lumens	Percent Of Luminaire
Downward Street Side	7105.1	79.8
Downward House Side	1794.7	20.2
Downward Total	8899.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8899.8	100.0

POLAR GRAPH

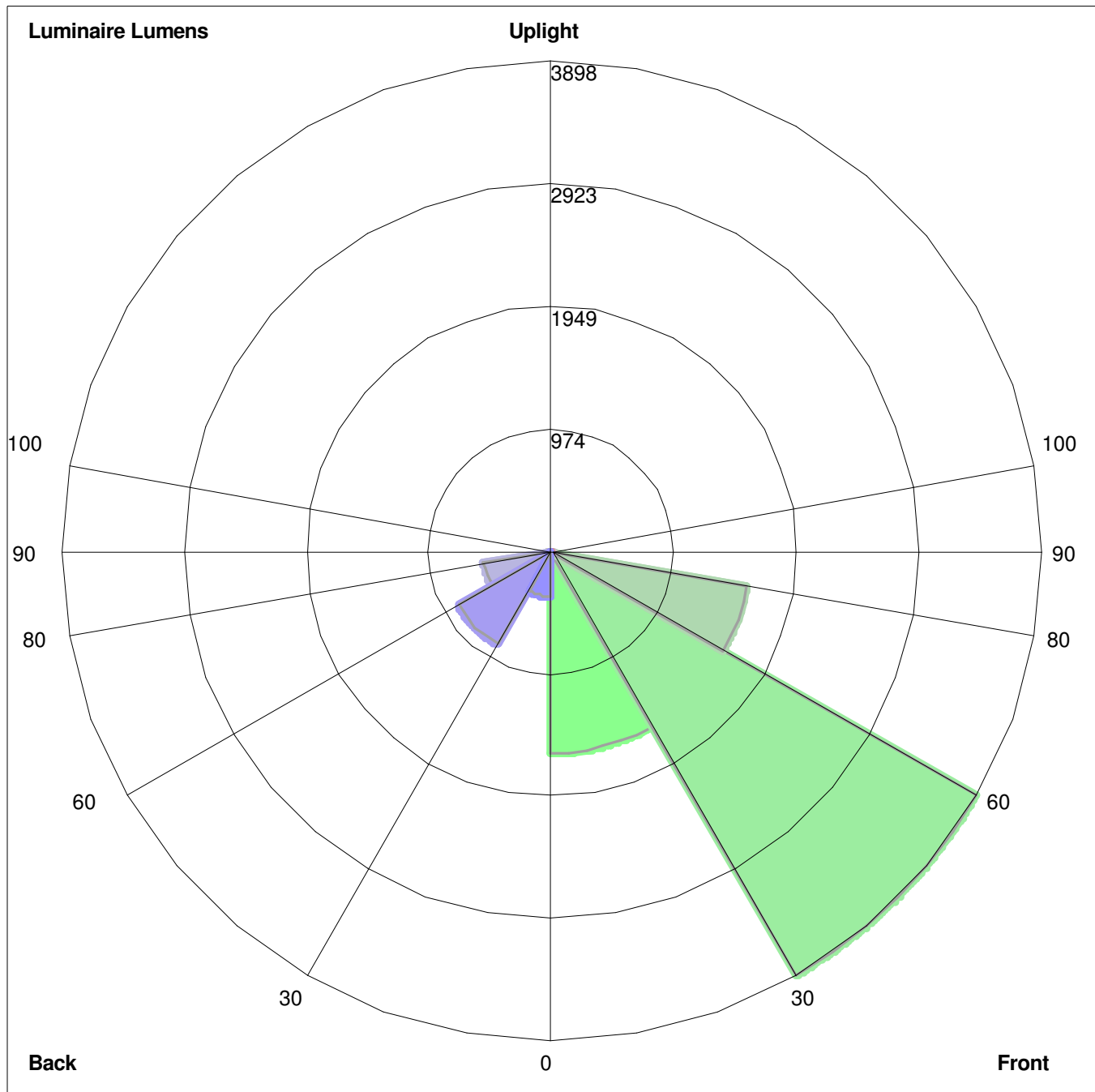


Maximum Candela = 9024.864 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1608.6, Medium=3897.5, High=1575.9, Very High=23.0
Back: Low=359.9, Medium=857.0, High=546.6, Very High=31.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2