



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-750-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-L83-750-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	9167
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9295.611
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	9295.611
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	355.004 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-750-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1656.9	N.A.	18.1
FM - Front-Medium (30-60)	4014.5	N.A.	43.8
FH - Front-High (60-80)	1623.2	N.A.	17.7
FVH - Front-Very High (80-90)	23.7	N.A.	0.3
BL - Back-Low (0-30)	370.7	N.A.	4.0
BM - Back-Medium (30-60)	882.7	N.A.	9.6
BH - Back-High (60-80)	563.0	N.A.	6.1
BVH - Back-Very High (80-90)	32.1	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	9166.8	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	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900
2.5	2508.630	2460.943	2463.351	2413.738	2386.763	2340.039	2287.054	2216.727	2153.145	2129.542
5.0	3069.315	3037.523	3022.109	2937.332	2864.116	2750.919	2622.308	2467.687	2309.211	2259.598
7.5	3648.785	3619.884	3584.239	3462.854	3332.316	3152.647	2950.338	2715.274	2459.016	2393.988
10.0	4178.642	4141.070	4094.828	3960.919	3797.145	3564.490	3296.671	2957.563	2615.083	2525.489
12.5	4506.189	4489.812	4450.795	4353.013	4198.391	3949.840	3635.298	3207.077	2777.412	2666.624
15.0	4519.677	4519.677	4516.787	4524.975	4470.063	4283.168	3962.364	3494.645	2953.228	2820.282
17.5	4447.905	4445.497	4443.088	4480.660	4534.609	4511.970	4267.272	3775.951	3151.683	2994.653
20.0	4462.838	4462.356	4464.283	4468.136	4497.037	4573.626	4524.012	4082.304	3380.485	3193.590
22.5	4407.443	4412.742	4447.905	4494.629	4509.561	4550.023	4681.524	4392.029	3641.078	3422.392
25.0	4182.014	4192.611	4277.388	4434.418	4523.530	4558.212	4738.845	4695.974	3922.866	3675.760
27.5	3806.297	3818.821	3970.553	4204.653	4456.094	4585.668	4757.149	4954.159	4213.323	3939.243
30.0	3487.901	3503.315	3611.214	3852.057	4234.518	4574.589	4797.129	5154.541	4491.257	4202.244
32.5	3302.452	3317.866	3415.648	3582.794	3903.598	4470.545	4854.931	5281.707	4776.898	4455.612
35.0	3164.207	3175.286	3269.697	3425.282	3643.968	4262.455	4912.252	5350.107	5028.339	4681.042
37.5	2959.008	2968.642	3085.692	3264.880	3472.006	4039.434	4952.714	5390.568	5249.434	4886.241
40.0	2602.078	2614.601	2763.443	2999.952	3268.252	3822.674	5057.240	5429.103	5456.560	5108.781
42.5	2091.488	2102.086	2291.871	2563.543	2966.234	3532.217	5187.778	5564.458	5646.826	5307.236
45.0	1616.544	1620.879	1740.338	1952.281	2473.949	3186.847	5012.443	6018.689	5801.448	5508.582
47.5	1303.447	1302.484	1358.360	1447.954	1768.276	2687.336	4519.677	6545.174	6019.171	5742.200
50.0	1155.569	1150.270	1157.978	1178.690	1302.002	1774.056	3921.420	6821.663	6655.481	6337.567
52.5	1093.913	1089.096	1071.274	1039.482	1099.693	1219.634	2972.496	7121.273	7667.025	7319.246
55.0	982.643	986.497	1012.508	992.759	994.685	1050.561	1791.397	7248.920	8557.184	8238.788
57.5	846.807	850.661	893.531	970.119	968.674	975.418	1421.461	6730.624	8825.966	8574.043
60.0	735.537	740.836	783.706	875.227	936.401	920.024	1335.239	5737.384	8765.755	8661.710
62.5	607.408	616.560	676.771	775.999	835.728	832.357	1223.487	4635.282	8681.459	8741.670
65.0	480.724	490.840	559.240	664.729	723.977	709.526	1052.488	3425.764	8650.631	8851.977
67.5	340.072	348.742	425.812	539.009	599.701	582.842	838.137	2377.611	8991.666	9274.899
68.0	305.390	311.652	394.021	512.034	574.654	557.313	791.895	2209.984	9010.452	9295.611
70.0	247.588	250.478	275.044	406.545	476.389	461.939	615.597	1624.251	8200.735	8431.463
72.5	194.602	197.010	216.760	287.568	374.271	373.308	433.519	987.942	5514.844	5649.716
75.0	145.470	148.360	166.182	201.827	297.201	323.694	288.531	509.626	1931.086	1922.898
77.5	102.118	105.971	122.830	147.878	232.174	299.610	176.298	269.263	408.953	421.959
80.0	67.918	71.290	83.814	95.374	174.371	222.540	105.008	147.878	188.340	192.675
82.5	40.943	40.943	48.169	54.431	108.380	98.746	55.876	75.143	97.301	93.929
85.0	17.341	17.341	20.231	23.121	53.467	34.200	23.603	26.975	36.608	35.645
87.5	3.372	3.372	3.854	3.854	10.115	4.335	2.890	3.854	4.335	4.335
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	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900	2014.900
2.5	2066.922	2025.979	1986.481	1895.923	1813.555	1724.924	1681.090	1619.434	1553.925	1552.480
5.0	2117.500	2022.125	1925.788	1721.552	1529.840	1351.134	1226.859	1117.516	1032.739	1005.764
7.5	2172.412	2024.052	1873.766	1553.925	1283.216	1046.708	917.134	831.875	782.743	766.365
10.0	2231.660	2033.204	1828.487	1402.675	1070.310	860.776	774.072	735.537	714.825	704.709
12.5	2299.096	2049.100	1790.915	1267.321	921.469	769.255	722.532	698.447	683.515	676.290
15.0	2379.056	2079.446	1764.422	1147.862	820.314	726.385	693.630	675.326	663.766	657.504
17.5	2474.430	2120.871	1747.563	1051.524	766.365	701.819	673.881	660.876	651.242	644.017
20.0	2589.072	2178.674	1743.228	975.900	739.391	685.923	660.876	651.242	644.498	634.383
22.5	2721.536	2254.299	1748.045	918.097	723.013	673.400	652.205	644.498	640.645	629.084
25.0	2872.304	2338.113	1764.904	873.782	708.081	661.839	643.535	638.236	636.310	616.079

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CANDELA TABULATION - (Cont.)

27.5	3028.853	2432.523	1789.952	840.545	692.667	648.352	633.419	630.529	622.822	600.665
30.0	3191.182	2536.568	1821.743	816.461	678.698	634.865	620.414	618.005	606.927	586.696
32.5	3344.840	2635.314	1857.870	799.120	665.211	619.932	605.000	599.701	580.916	533.710
35.0	3472.487	2717.201	1889.661	783.224	651.724	603.555	588.141	565.020	525.040	489.877
37.5	3577.977	2798.125	1922.416	767.329	632.938	587.177	552.496	515.888	483.133	471.091
40.0	3712.850	2901.206	1972.030	755.768	613.670	561.166	508.662	464.829	463.865	453.750
42.5	3832.790	2995.617	2034.649	748.543	593.439	524.076	477.353	438.818	445.561	449.896
45.0	3966.699	3111.222	2112.201	744.208	571.763	491.803	427.739	419.068	433.037	440.263
47.5	4142.034	3269.215	2230.215	749.506	548.642	471.091	409.916	404.136	419.068	429.666
50.0	4640.099	3724.892	2569.323	799.120	530.338	454.713	407.508	391.131	408.471	425.330
52.5	5445.962	4434.418	3172.878	944.108	505.291	412.325	413.288	373.790	404.136	429.184
55.0	6045.664	4981.615	3673.351	1009.618	457.122	369.936	363.674	361.748	406.063	435.927
57.5	5918.016	4910.326	3636.261	909.427	406.545	340.072	336.218	354.522	407.990	433.037
60.0	5713.299	4729.693	3449.366	744.689	358.857	314.060	316.951	349.705	399.319	414.733
62.5	5525.441	4545.206	3313.530	620.896	316.469	293.348	300.092	339.590	376.680	386.795
65.0	5432.475	4431.528	3248.503	528.893	278.416	269.263	282.751	320.804	345.852	380.533
67.5	5456.560	4302.436	3152.647	434.482	245.179	242.771	263.965	295.275	320.804	505.772
68.0	5424.286	4234.036	3115.075	411.843	239.399	237.472	259.630	289.494	323.694	537.082
70.0	4848.670	3488.865	2639.168	335.255	217.241	217.241	241.326	265.410	381.978	652.205
72.5	3485.011	2222.026	1691.688	232.655	189.303	195.084	215.796	233.137	506.736	743.726
75.0	1126.668	814.052	736.501	163.292	157.994	171.481	189.303	205.199	579.952	679.662
77.5	280.342	215.796	173.408	108.380	121.385	140.653	156.549	183.041	533.710	496.138
80.0	139.208	112.715	93.447	72.253	84.295	105.490	118.977	141.135	355.004	318.396
82.5	77.070	64.546	51.541	41.907	53.467	71.290	77.070	89.594	204.236	189.303
85.0	27.938	25.048	20.713	17.341	25.529	30.828	35.163	38.535	92.484	81.887
87.5	2.408	2.408	1.445	0.963	3.854	5.780	6.262	7.707	21.194	10.115
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

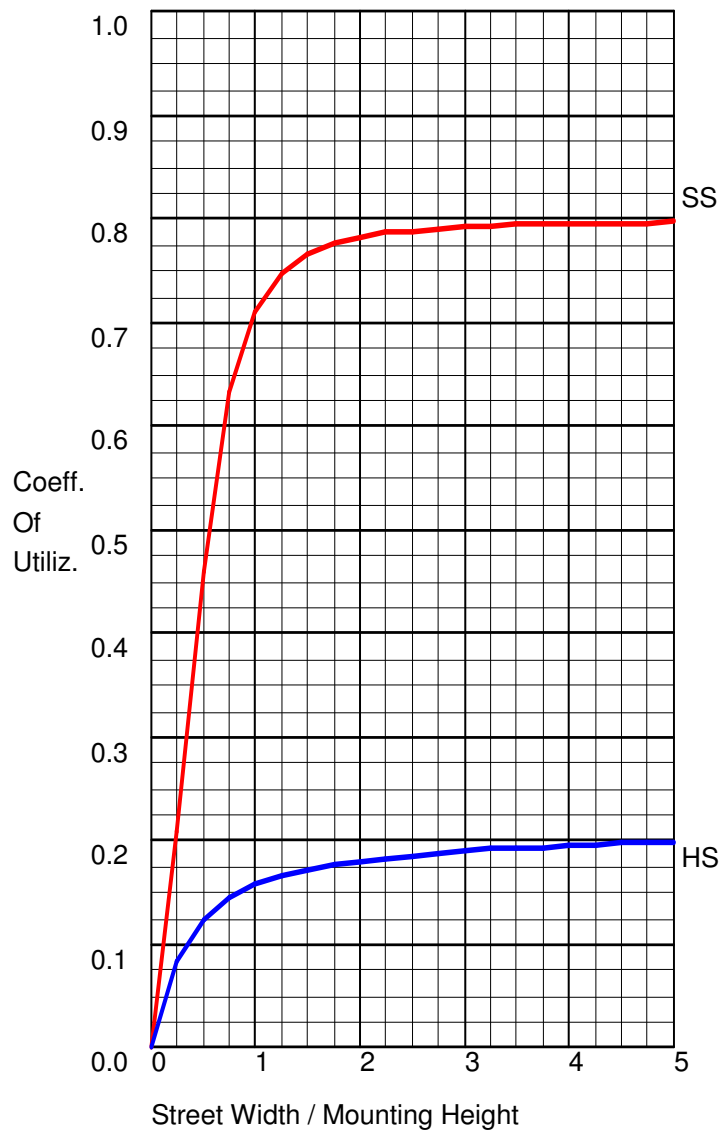
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	2014.900	2014.900
2.5	1488.897	1517.317
5.0	954.705	970.119
7.5	749.988	752.878
10.0	697.002	697.484
12.5	670.991	670.991
15.0	654.132	654.614
17.5	640.645	641.126
20.0	629.084	629.084
22.5	620.896	620.896
25.0	603.073	603.555
27.5	589.586	590.068
30.0	561.166	561.648
32.5	510.589	509.144
35.0	479.279	480.243
37.5	464.829	467.237
40.0	446.043	449.896
42.5	434.482	434.001
45.0	431.111	420.032
47.5	416.660	416.660
50.0	415.697	422.440
52.5	427.257	434.964
55.0	439.299	446.043
57.5	437.854	443.634
60.0	421.477	427.739

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L83-750-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	398.838	407.026
65.0	434.482	454.713
67.5	548.161	567.910
68.0	566.947	585.732
70.0	630.529	650.760
72.5	643.535	653.650
75.0	530.820	552.014
77.5	364.638	366.564
80.0	234.582	231.692
82.5	141.616	144.988
85.0	33.236	37.090
87.5	1.927	0.000
90.0	0.000	0.000

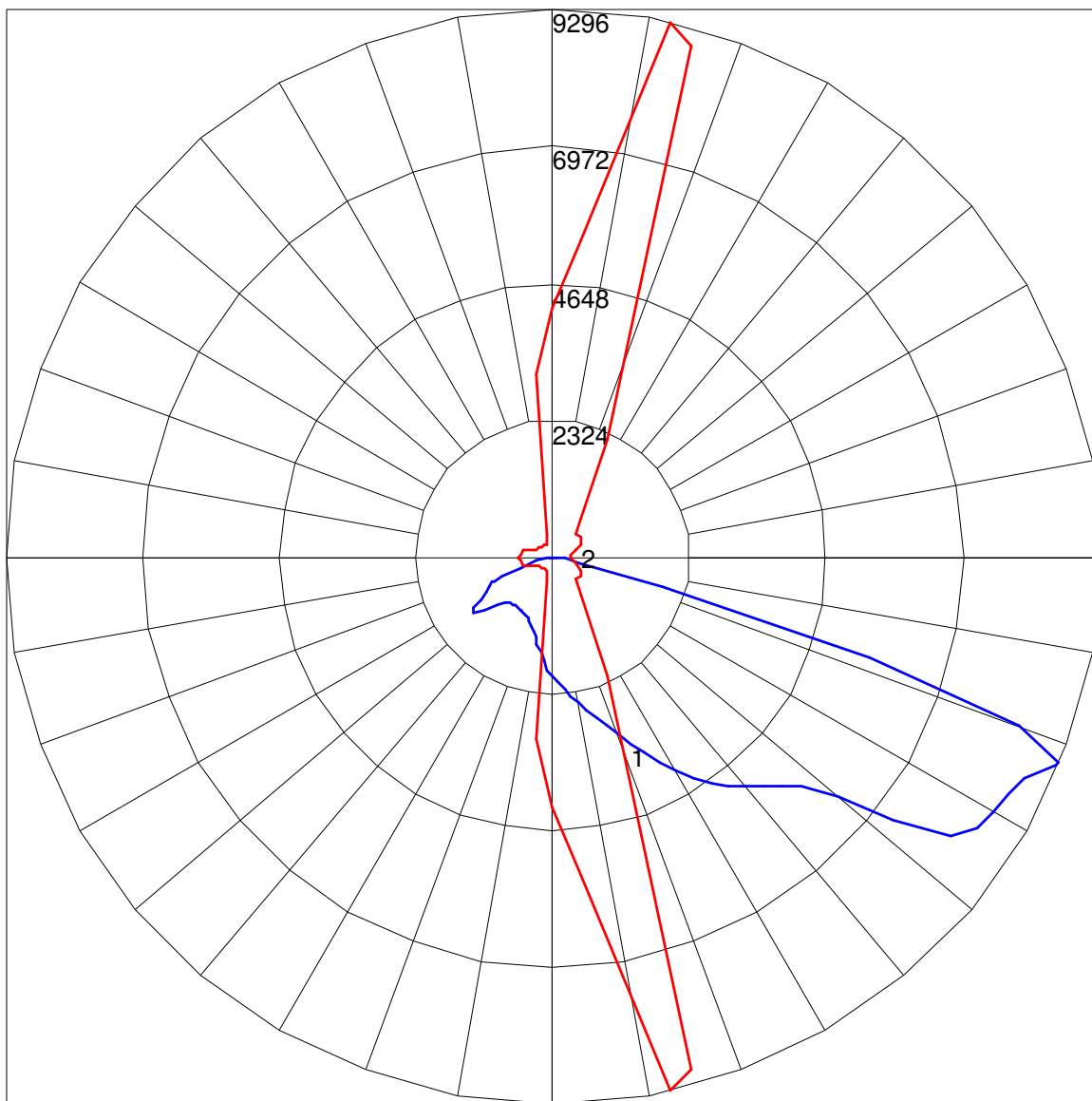
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

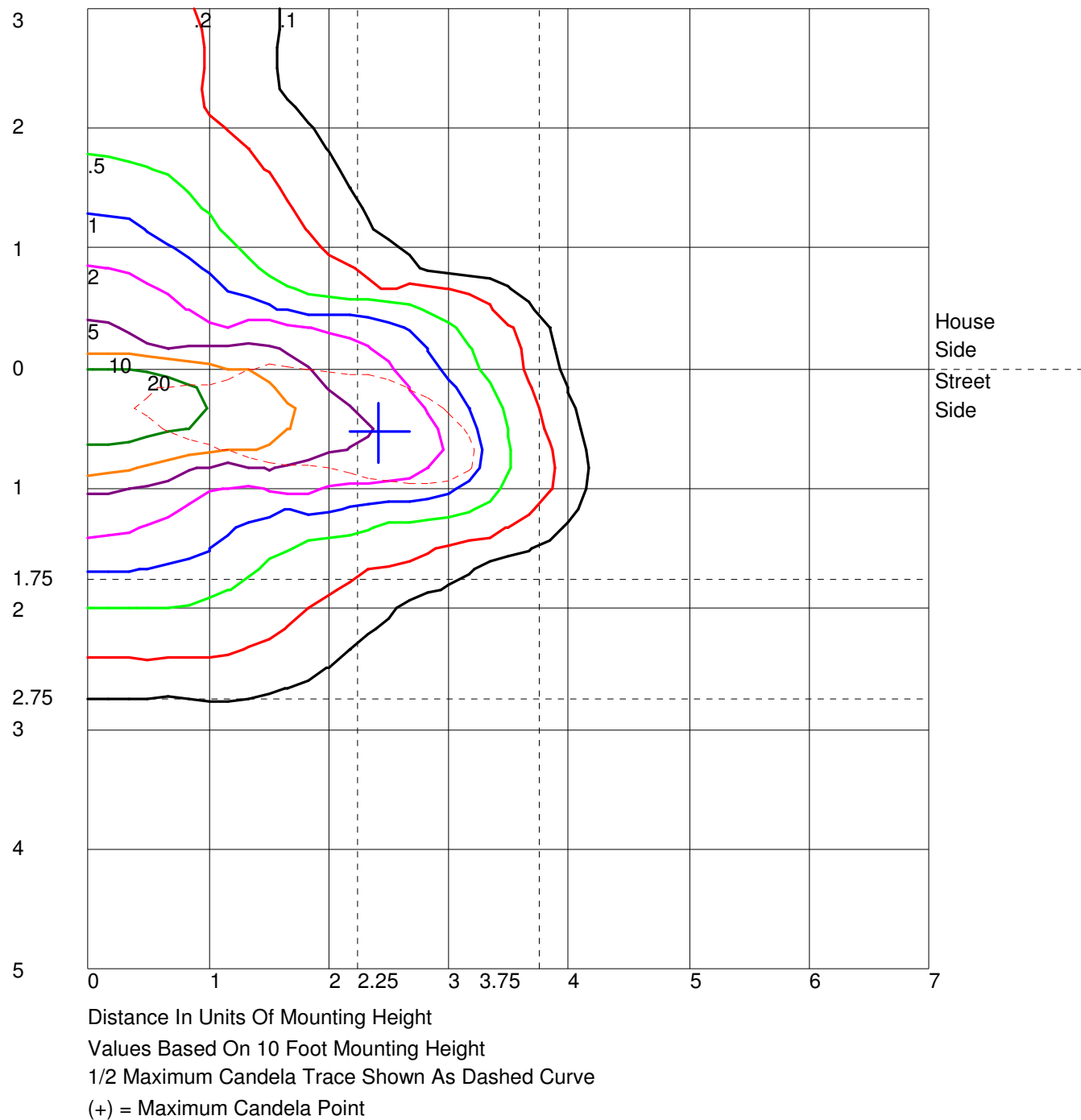
	Lumens	Percent Of Luminaire
Downward Street Side	7318.3	79.8
Downward House Side	1848.6	20.2
Downward Total	9166.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	9166.8	100.0

POLAR GRAPH

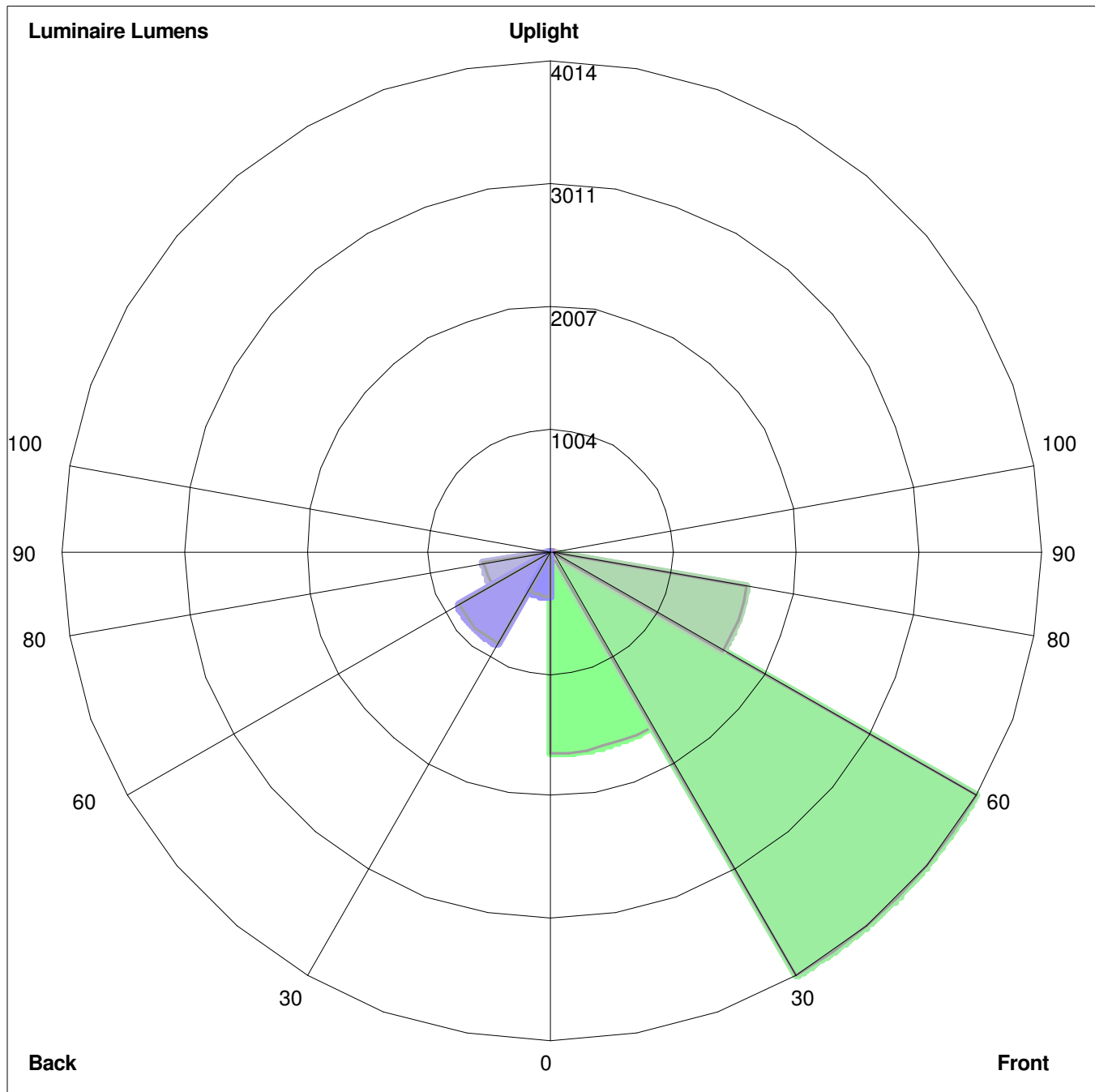


Maximum Candela = 9295.611 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1656.9, Medium=4014.5, High=1623.2, Very High=23.7
Back: Low=370.7, Medium=882.7, High=563.0, Very High=32.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2