



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-750-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-750-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE III OPTICS, CLEAR LENS,
[MORE] (2) LED MODULES AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor, Area, Parking
[_SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30116
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22247.518
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	22247.518
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	5165.076 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-750-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2993.5	N.A.	9.9
FM - Front-Medium (30-60)	10469.8	N.A.	34.8
FH - Front-High (60-80)	7418.9	N.A.	24.6
FVH - Front-Very High (80-90)	248.3	N.A.	0.8
BL - Back-Low (0-30)	1611.7	N.A.	5.4
BM - Back-Medium (30-60)	3711.1	N.A.	12.3
BH - Back-High (60-80)	3322.7	N.A.	11.0
BVH - Back-Very High (80-90)	340.4	N.A.	1.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	30116.4	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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219
2.5	6485.912	6474.859	6474.859	6485.912	6454.964	6428.436	6425.120	6404.120	6386.435	6349.960
5.0	6750.079	6755.606	6750.079	6741.237	6701.446	6658.339	6635.128	6566.599	6544.493	6452.753
7.5	6794.291	6805.344	6804.239	6811.976	6813.081	6807.555	6796.502	6718.025	6697.025	6561.073
10.0	6752.290	6754.500	6752.290	6767.764	6794.291	6836.293	6876.084	6840.714	6826.345	6680.445
12.5	6739.026	6739.026	6724.657	6736.816	6768.869	6824.134	6897.084	6916.980	6922.506	6803.134
15.0	6796.502	6785.449	6761.132	6748.974	6774.396	6831.872	6912.559	6974.455	6987.719	6933.559
17.5	6907.032	6909.243	6877.189	6839.609	6834.082	6877.189	6957.876	7045.195	7058.458	7069.511
20.0	7056.248	7062.880	7034.142	6991.035	6972.245	6976.666	7050.721	7149.093	7168.989	7225.359
22.5	7175.620	7196.621	7175.620	7164.567	7152.409	7150.198	7206.569	7289.467	7320.415	7385.628
25.0	7276.203	7278.414	7270.676	7297.204	7348.048	7362.416	7401.102	7453.051	7490.631	7540.370
27.5	7373.469	7355.785	7330.363	7378.996	7509.422	7605.583	7628.794	7644.268	7660.848	7689.586
30.0	7458.578	7445.314	7413.260	7416.576	7591.214	7856.486	7902.909	7875.277	7859.802	7847.644
32.5	7470.736	7460.788	7472.947	7507.211	7652.006	8091.916	8211.288	8112.917	8087.495	7983.596
35.0	7450.841	7448.630	7492.842	7602.267	7843.223	8311.871	8559.459	8421.296	8342.819	8116.232
37.5	7404.418	7398.891	7475.157	7733.798	8170.392	8600.355	8954.051	8755.097	8621.355	8205.762
40.0	7318.204	7338.100	7457.472	7969.227	8899.892	9517.755	9491.228	9114.320	8944.104	8303.028
42.5	7279.519	7302.730	7413.260	7921.699	9093.319	10460.578	10614.215	9849.346	9514.439	8457.771
45.0	7626.584	7632.110	7579.056	7911.752	8927.524	10420.787	11499.562	11071.810	10703.744	8941.893
47.5	8368.241	8357.188	8314.081	8387.031	8963.999	10134.514	11591.302	11853.258	11723.938	10131.198
50.0	8335.082	8311.871	8561.669	9043.581	9493.439	10063.774	11208.867	11821.205	11783.624	10684.954
52.5	7729.377	7743.746	8230.079	9065.687	10134.514	10593.214	11008.808	11412.243	11444.297	10451.735
55.0	6094.635	6173.112	7185.568	8864.522	10637.426	11998.053	11604.565	11549.300	11610.092	10673.901
57.5	4493.053	4582.582	5612.723	7891.856	10785.537	13891.435	13260.308	12389.330	12319.696	11180.129
60.0	3546.914	3605.495	4218.938	5730.991	9764.238	15476.438	16590.583	13953.332	13698.007	12090.898
62.5	2747.781	2730.096	3049.528	3743.658	7395.576	14900.576	20455.824	16683.428	15906.401	13484.684
65.0	1932.068	1949.753	2136.549	2460.402	4401.312	13301.204	21158.796	20277.870	19028.879	15266.431
67.5	1667.901	1677.848	1902.225	1991.754	2325.555	9141.953	19234.465	22247.518	21488.176	16540.844
70.0	1330.784	1299.835	1600.477	1738.640	1718.745	4087.407	15855.557	20675.779	21224.009	17050.388
72.5	946.138	912.979	1027.931	1464.525	1321.941	2121.074	10163.252	16546.371	17648.357	15946.192
75.0	721.762	712.920	732.815	1119.671	1062.195	1287.677	4404.628	11085.074	12212.482	11385.716
77.5	483.017	478.596	497.386	738.342	889.768	859.925	1790.589	5201.551	6365.434	7417.682
80.0	302.853	294.010	321.643	459.806	767.080	552.651	868.767	1918.804	3019.685	5165.076
82.5	158.058	159.163	177.954	267.483	523.913	310.590	441.015	699.656	1029.036	2625.092
85.0	61.897	61.897	71.845	116.057	187.901	123.794	168.006	223.271	290.694	602.390
87.5	7.737	8.842	11.053	17.685	24.317	17.685	27.633	27.633	36.475	39.791
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	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219	6237.219
2.5	6293.589	6288.063	6249.377	6191.902	6122.268	6046.002	6004.000	5956.472	5881.312	5862.522
5.0	6330.064	6281.431	6206.271	6069.213	5918.892	5748.676	5621.566	5497.772	5386.137	5316.503
7.5	6385.330	6296.905	6183.059	5958.683	5706.674	5413.769	5133.022	4845.644	4554.949	4341.626
10.0	6459.385	6323.433	6177.533	5856.995	5473.455	4980.491	4388.049	3826.555	3387.751	3178.848
12.5	6545.598	6365.434	6186.375	5755.307	5197.130	4359.311	3503.807	3070.529	2923.524	2882.628
15.0	6650.602	6430.647	6212.902	5658.041	4833.486	3650.812	3036.265	2903.628	2862.732	2843.942
17.5	6779.922	6519.071	6259.325	5554.142	4363.732	3170.006	2935.682	2874.890	2842.837	2829.573
20.0	6925.822	6635.128	6326.749	5444.718	3847.556	2986.526	2903.628	2859.416	2822.941	2796.414
22.5	7087.196	6765.553	6400.804	5314.292	3430.857	2941.209	2880.417	2828.468	2777.624	2730.096
25.0	7245.254	6891.558	6467.122	5144.075	3175.533	2917.997	2842.837	2766.571	2702.463	2649.409
27.5	7406.629	7025.299	6529.019	4931.857	3052.844	2890.365	2779.834	2695.832	2628.408	2565.406

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CANDELA TABULATION - (Cont.)

30.0	7565.792	7162.357	6598.653	4693.112	2997.579	2845.047	2706.885	2610.723	2544.405	2488.035
32.5	7706.165	7280.624	6660.550	4436.682	2954.472	2783.150	2629.513	2522.299	2463.718	2418.401
35.0	7806.748	7355.785	6699.235	4182.463	2899.207	2707.990	2549.932	2431.664	2383.031	2336.608
37.5	7835.486	7369.048	6699.235	3960.297	2835.100	2625.092	2470.350	2344.345	2297.923	2248.184
40.0	7866.434	7384.523	6690.393	3788.975	2774.308	2545.510	2396.295	2265.869	2216.130	2155.339
42.5	7906.225	7386.733	6682.656	3651.918	2728.991	2474.771	2321.134	2196.235	2118.864	2056.967
45.0	8138.338	7583.477	6831.872	3593.337	2682.568	2415.085	2265.869	2134.338	2016.071	1956.384
47.5	8934.156	8235.605	7439.788	3891.768	2759.939	2380.820	2230.499	2102.284	1949.753	1900.014
50.0	9374.066	8687.674	7850.960	4341.626	3185.480	2490.245	2230.499	2127.706	1990.649	2035.966
52.5	9138.637	8476.561	7638.742	4103.986	3345.749	2871.575	2296.818	2161.971	2175.234	2471.455
55.0	9385.119	8751.781	7991.333	4171.410	2953.367	2742.254	2545.510	2174.129	2388.558	2961.104
57.5	9847.135	9279.010	8671.094	4885.435	2891.470	2378.610	2320.029	2200.656	2492.456	3213.113
60.0	10523.580	9892.453	9563.073	5992.947	2948.946	2237.131	2021.597	2008.334	2448.244	3081.582
62.5	11350.346	10615.320	10407.523	7143.567	3122.478	2133.233	1859.118	1853.591	2323.345	2749.991
65.0	12180.428	11045.283	10741.325	7718.324	3487.228	2045.914	1717.639	1727.587	2173.024	2419.506
67.5	12491.018	11177.919	10896.067	7930.542	3913.874	1940.910	1572.845	1587.214	1975.175	2073.547
70.0	12381.593	11235.395	11130.391	7833.275	4315.099	1817.116	1401.523	1410.365	1734.219	1806.063
72.5	11208.867	10397.576	10397.576	7459.683	4588.109	1709.902	1211.411	1221.359	1489.947	1520.896
75.0	7612.215	6994.351	7088.302	6134.426	4562.687	1629.215	1020.194	1034.563	1244.570	1199.253
77.5	4700.849	4222.254	4275.308	4931.857	4295.203	1549.633	820.134	834.503	982.613	693.024
80.0	3606.600	3124.689	3235.219	3861.925	3853.083	1447.946	604.600	623.390	709.604	332.696
82.5	1688.901	1533.054	1712.113	2328.871	3044.002	1273.308	327.169	400.119	399.014	210.007
85.0	228.798	217.744	300.642	796.923	1745.272	824.555	143.689	160.269	127.110	99.477
87.5	26.527	23.211	26.527	55.265	452.069	285.168	30.948	33.159	25.422	19.895
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

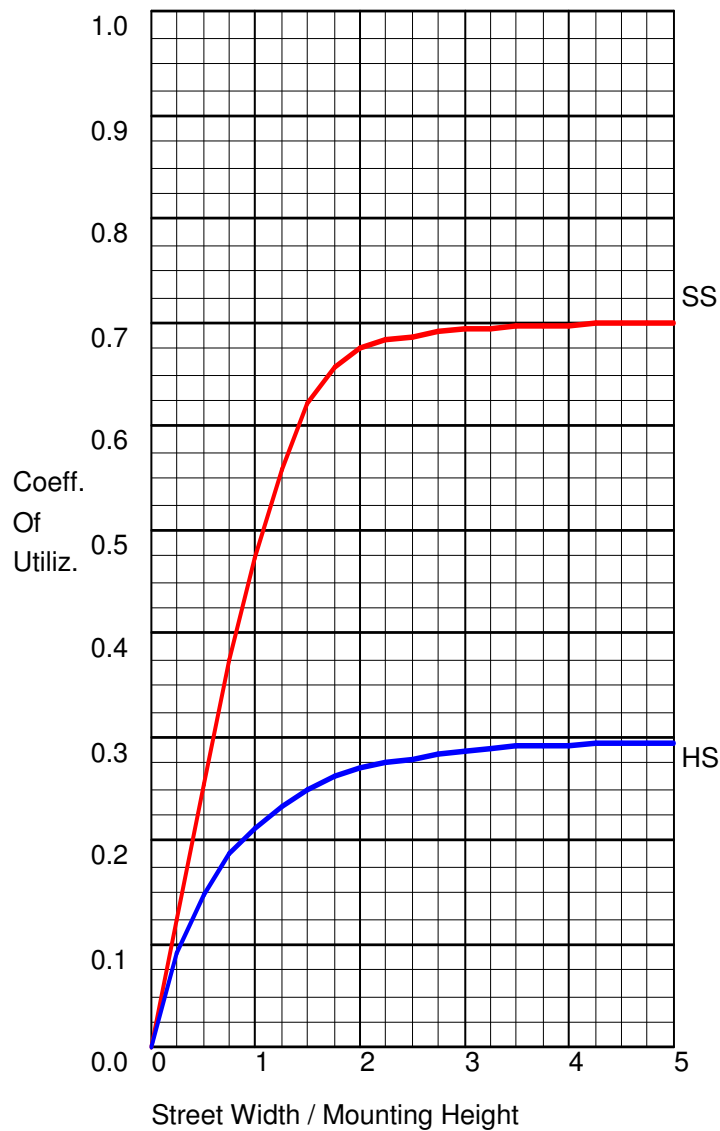
	<u>175.0</u>	<u>180.0</u>
0.0	6237.219	6237.219
2.5	5889.049	5893.470
5.0	5288.870	5295.502
7.5	4247.675	4248.781
10.0	3109.214	3103.688
12.5	2870.469	2864.943
15.0	2838.415	2837.310
17.5	2824.047	2821.836
20.0	2787.572	2783.150
22.5	2714.622	2707.990
25.0	2622.882	2625.092
27.5	2526.720	2528.931
30.0	2443.823	2444.928
32.5	2365.346	2365.346
35.0	2287.975	2286.870
37.5	2210.604	2201.762
40.0	2116.653	2107.811
42.5	2010.544	2002.807
45.0	1918.804	1914.383
47.5	1869.066	1869.066
50.0	2051.440	2077.968
52.5	2599.670	2642.777
55.0	3220.850	3270.589
57.5	3623.180	3713.815
60.0	3389.961	3403.225
62.5	2862.732	2828.468
65.0	2374.189	2377.505

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CANDELA TABULATION - (Cont.)

67.5	1914.383	1896.698
70.0	1596.056	1585.003
72.5	1315.309	1300.940
75.0	904.137	897.505
77.5	502.912	499.596
80.0	336.012	327.169
82.5	214.429	214.429
85.0	79.582	66.318
87.5	8.842	3.316
90.0	0.000	0.000

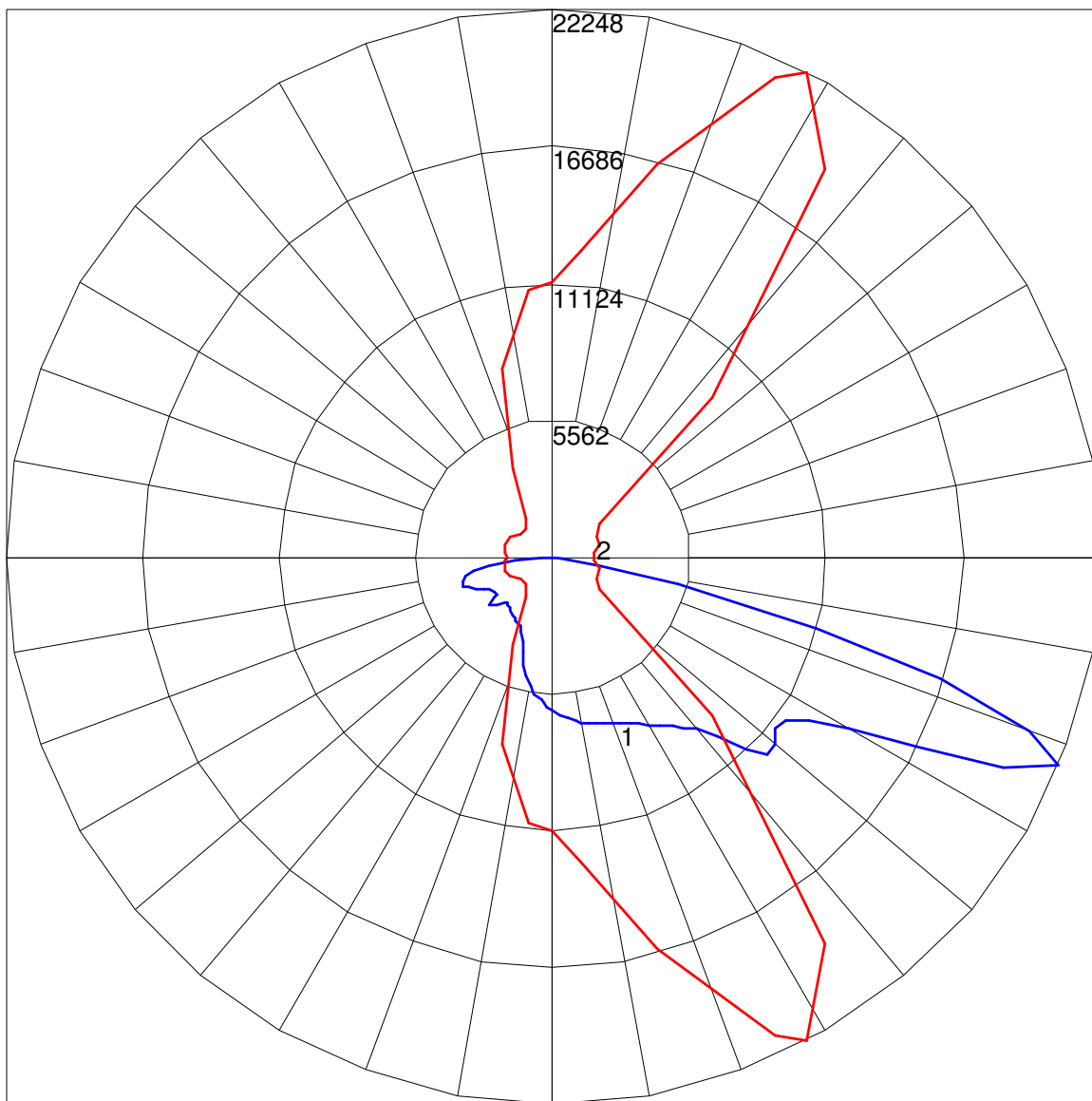
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

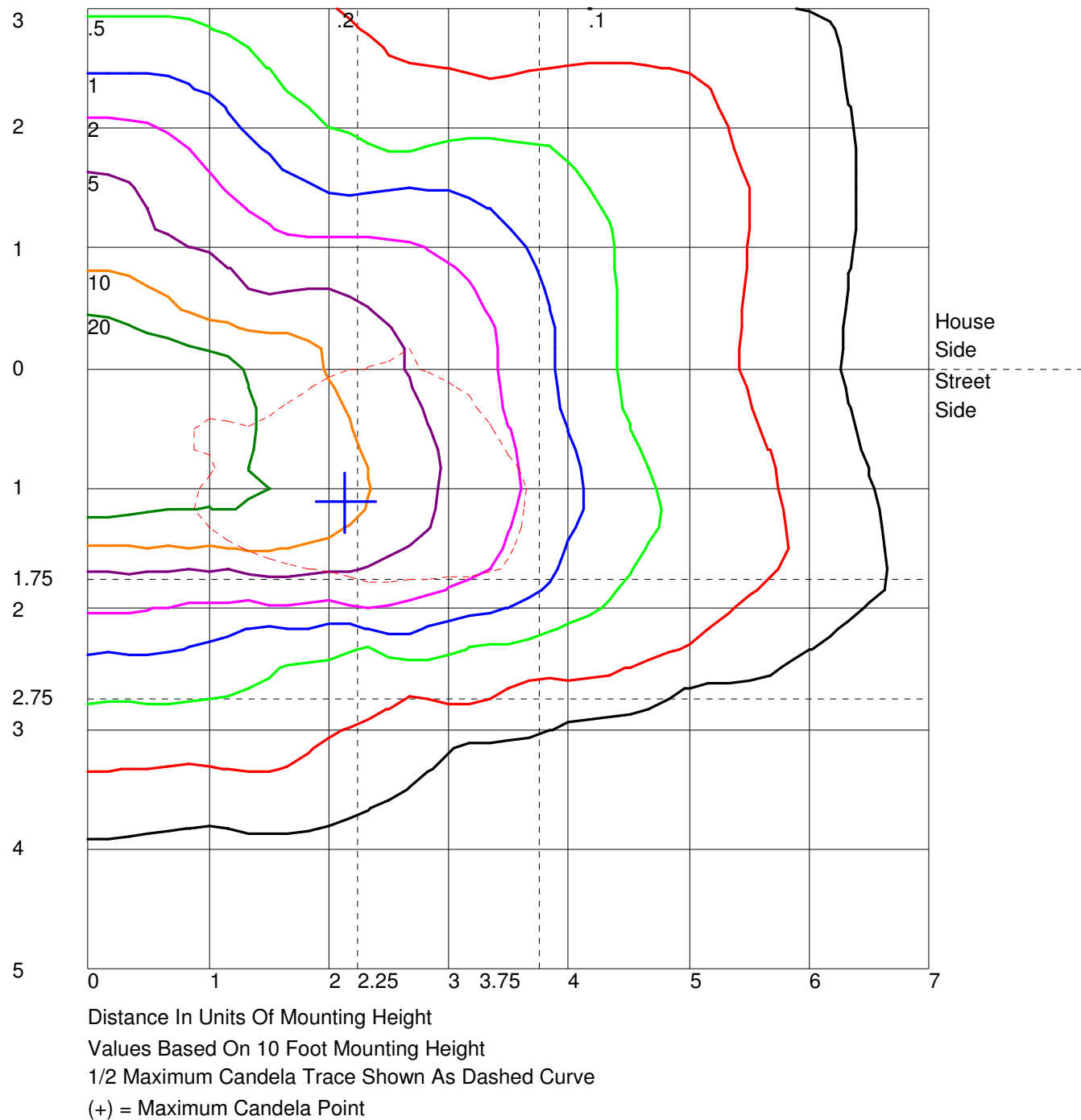
	Lumens	Percent Of Luminaire
Downward Street Side	21130.4	70.2
Downward House Side	8985.8	29.8
Downward Total	30116.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30116.2	100.0

POLAR GRAPH

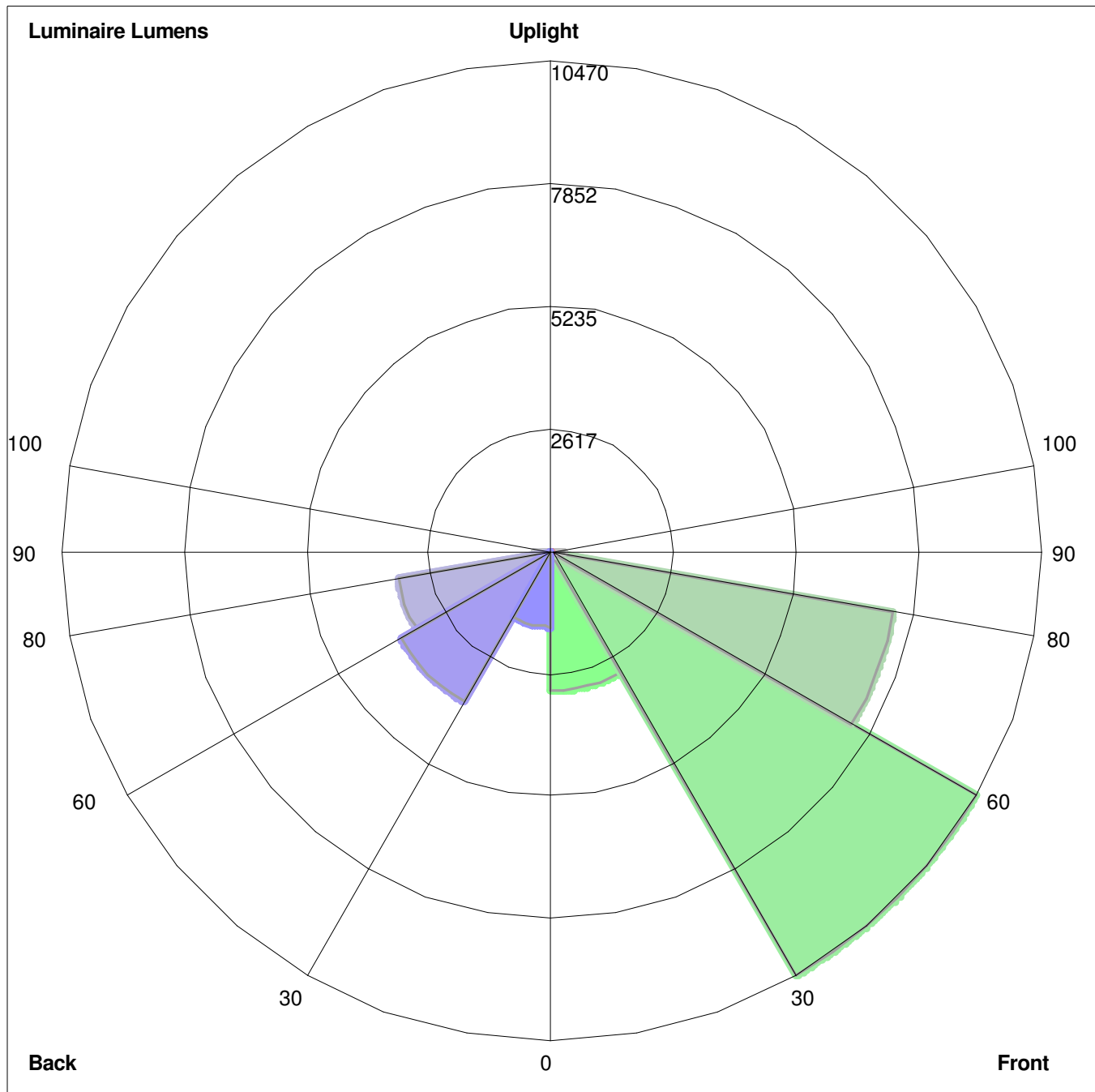


Maximum Candela = 22247.518 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2993.5, Medium=10469.8, High=7418.9, Very High=248.3
Back: Low=1611.7, Medium=3711.1, High=3322.7, Very High=340.4
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4