



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-740-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-740-T3-F-S-xxx-DIM-UNV
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE III
[MORE] OPTICS, CLEAR LENS, (2) LED ARRAYS
[MORE] AND (2) ELECTRONIC DRIVERS IN A BROWN HOUSING.
[LAMPCAT] 4000K LEDS
[_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	31591
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	23337.008
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	23337.008
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	5418.017 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-740-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3140.1	N.A.	9.9
FM - Front-Medium (30-60)	10982.5	N.A.	34.8
FH - Front-High (60-80)	7782.2	N.A.	24.6
FVH - Front-Very High (80-90)	260.4	N.A.	0.8
BL - Back-Low (0-30)	1690.6	N.A.	5.4
BM - Back-Medium (30-60)	3892.8	N.A.	12.3
BH - Back-High (60-80)	3485.4	N.A.	11.0
BVH - Back-Very High (80-90)	357.0	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	31591.0	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	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664
2.5	6803.535	6791.941	6791.941	6803.535	6771.071	6743.245	6739.767	6717.738	6699.187	6660.926
5.0	7080.639	7086.436	7080.639	7071.364	7029.624	6984.406	6960.058	6888.174	6864.985	6768.752
7.5	7127.016	7138.611	7137.451	7145.567	7146.727	7140.930	7129.335	7047.016	7024.987	6882.377
10.0	7082.958	7085.277	7082.958	7099.190	7127.016	7171.075	7212.814	7175.712	7160.640	7007.595
12.5	7069.045	7069.045	7053.972	7066.726	7100.349	7158.321	7234.843	7255.713	7261.510	7136.292
15.0	7129.335	7117.741	7092.233	7079.480	7106.147	7166.437	7251.075	7316.003	7329.917	7273.105
17.5	7245.278	7247.597	7213.974	7174.553	7168.756	7213.974	7298.612	7390.207	7404.120	7415.714
20.0	7401.801	7408.758	7378.613	7333.395	7313.685	7318.322	7396.004	7499.193	7520.063	7579.194
22.5	7527.020	7549.049	7527.020	7515.425	7502.672	7500.353	7559.484	7646.441	7678.905	7747.311
25.0	7632.528	7634.847	7626.731	7654.557	7707.891	7722.963	7763.543	7818.037	7857.457	7909.632
27.5	7734.558	7716.007	7689.340	7740.355	7877.168	7978.038	8002.386	8018.618	8036.010	8066.155
30.0	7823.834	7809.921	7776.297	7779.775	7962.965	8241.229	8289.925	8260.939	8244.707	8231.953
32.5	7836.588	7826.153	7838.906	7874.849	8026.734	8488.187	8613.406	8510.216	8483.550	8374.563
35.0	7815.718	7813.399	7859.776	7974.560	8227.315	8718.914	8978.626	8833.697	8751.378	8513.695
37.5	7767.022	7761.225	7841.225	8112.532	8570.507	9021.525	9392.543	9183.845	9043.554	8607.609
40.0	7676.586	7697.456	7822.674	8359.490	9335.731	9983.852	9956.026	9560.660	9382.108	8709.638
42.5	7636.006	7660.354	7776.297	8309.635	9538.631	10972.846	11134.007	10331.68	1019980.374	8871.959
45.0	8000.067	8005.864	7950.212	8299.200	9364.716	10931.106	12062.710	11614.011	11227.920	9379.789
47.5	8778.045	8766.450	8721.233	8797.755	9402.978	10630.814	12158.943	12433.728	12298.074	10627.336
50.0	8743.262	8718.914	8980.945	9486.456	9958.345	10556.610	11757.780	12400.104	12360.684	11208.210
52.5	8107.894	8122.967	8633.116	9509.645	10630.814	11111.977	11547.923	11971.115	12004.738	10963.570
55.0	6393.097	6475.417	7537.455	9298.629	11158.355	12585.613	12172.856	12114.884	12178.653	11196.616
57.5	4713.083	4806.997	5887.586	8278.330	11313.718	14571.717	13909.682	12996.051	12923.007	11727.635
60.0	3720.611	3782.061	4425.544	6011.645	10242.405	16234.339	17403.045	14636.645	14368.816	12683.005
62.5	2882.343	2863.792	3198.867	3926.990	7757.746	15630.276	121457.572	17500.437	16685.358	14145.046
65.0	2026.684	2045.235	2241.178	2580.891	4616.850	13952.581	122194.969	1270.903	19960.747	16014.048
67.5	1749.580	1760.015	1995.379	2089.293	2439.441	9589.646	20176.401	23337.008	22540.479	17350.870
70.0	1395.954	1363.490	1678.855	1823.783	1802.914	4287.572	16632.024	21688.298	22263.375	17885.368
72.5	992.472	957.689	1078.270	1536.245	1386.678	2224.946	10660.959	17356.668	18512.619	16727.097
75.0	757.108	747.832	768.702	1174.503	1114.212	1350.736	4620.329	11627.924	12810.542	11943.289
77.5	506.671	502.033	521.744	774.499	933.341	902.037	1878.277	5456.278	6677.158	7780.935
80.0	317.684	308.408	337.394	482.323	804.644	579.715	911.312	2012.771	3167.563	5418.017
82.5	165.798	166.958	186.668	280.582	549.570	325.800	462.613	733.919	1079.429	2753.646
85.0	64.928	64.928	75.363	121.740	197.103	129.856	176.233	234.205	304.930	631.889
87.5	8.116	9.275	11.594	18.551	25.507	18.551	28.986	28.986	38.261	41.739
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	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664	6542.664
2.5	6601.795	6595.997	6555.417	6495.127	6422.083	6342.082	6298.024	6248.168	6169.327	6149.617
5.0	6640.056	6589.041	6510.200	6366.430	6208.748	6030.196	5896.861	5767.005	5649.903	5576.858
7.5	6698.027	6605.273	6485.852	6250.487	5986.137	5678.888	5384.393	5082.941	4778.011	4554.241
10.0	6775.709	6633.099	6480.054	6143.820	5741.497	5224.392	4602.937	4013.947	3553.653	3334.521
12.5	6866.145	6677.158	6489.330	6037.152	5451.640	4572.792	3675.393	3220.897	3066.692	3023.794
15.0	6976.290	6745.564	6517.156	5935.122	5070.188	3829.597	3184.954	3045.823	3002.924	2983.213
17.5	7111.944	6838.318	6565.852	5826.136	4577.430	3325.245	3079.446	3015.678	2982.054	2968.141
20.0	7264.989	6960.058	6636.577	5711.352	4035.976	3132.780	3045.823	2999.445	2961.184	2933.358
22.5	7434.265	7096.871	6714.259	5574.540	3598.871	3085.243	3021.475	2966.981	2913.648	2863.792
25.0	7600.064	7229.046	6783.825	5395.987	3331.042	3060.895	2982.054	2902.053	2834.806	2779.154
27.5	7769.341	7369.337	6848.753	5173.377	3202.346	3031.910	2915.967	2827.850	2757.125	2691.037

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CANDELA TABULATION - (Cont.)

30.0	7936.299	7513.107	6921.797	4922.940	3144.374	2984.373	2839.444	2738.574	2669.008	2609.877
32.5	8083.546	7637.166	6986.725	4653.952	3099.156	2919.445	2758.284	2645.819	2584.370	2536.833
35.0	8189.054	7716.007	7027.305	4387.283	3041.185	2840.604	2674.805	2550.746	2499.731	2451.035
37.5	8219.199	7729.920	7027.305	4154.238	2973.938	2753.646	2591.326	2459.151	2410.455	2358.281
40.0	8251.664	7746.152	7018.030	3974.526	2910.169	2670.167	2513.644	2376.832	2324.657	2260.889
42.5	8293.403	7748.471	7009.914	3830.757	2862.633	2595.964	2434.803	2303.787	2222.627	2157.699
45.0	8536.883	7954.849	7166.437	3769.307	2813.937	2533.355	2376.832	2238.859	2114.800	2052.191
47.5	9371.673	8638.913	7804.124	4082.353	2895.097	2497.412	2339.730	2205.236	2045.235	1993.060
50.0	9833.126	9113.120	8235.431	4554.241	3341.477	2612.196	2339.730	2231.903	2088.133	2135.670
52.5	9586.167	8891.669	8012.821	4304.964	3509.595	3012.199	2409.296	2267.845	2281.758	2592.486
55.0	9844.720	9180.367	8382.679	4375.689	3097.997	2876.546	2670.167	2280.599	2505.528	3106.113
57.5	10329.362	9733.415	9095.729	5124.681	3033.069	2495.093	2433.644	2308.425	2614.515	3370.463
60.0	11038.933	10376.899	10031.389	6286.430	3093.359	2346.686	2120.598	2106.684	2568.138	3232.491
62.5	11906.187	11135.166	10917.193	7493.396	3275.390	2237.700	1950.161	1944.364	2437.122	2884.662
65.0	12776.919	11586.184	11267.341	8096.300	3658.002	2146.105	1801.754	1812.189	2279.439	2537.992
67.5	13102.719	11725.316	11429.661	8318.910	4105.542	2035.959	1649.869	1664.942	2071.901	2175.091
70.0	12987.935	11785.606	11675.460	8216.881	4526.415	1906.103	1470.157	1479.433	1819.146	1894.509
72.5	11757.780	10906.758	10906.758	7824.993	4812.794	1793.638	1270.735	1281.170	1562.912	1595.376
75.0	7984.995	7336.873	7435.425	6434.837	4786.127	1709.000	1070.154	1085.227	1305.518	1257.982
77.5	4931.056	4429.023	4484.675	5173.377	4505.545	1625.521	860.297	875.370	1030.733	726.963
80.0	3783.220	3277.709	3393.652	4051.049	4041.773	1518.853	634.208	653.919	744.354	348.988
82.5	1771.609	1608.129	1795.957	2442.919	3193.070	1335.663	343.191	419.714	418.554	220.292
85.0	240.002	228.408	315.365	835.949	1830.740	864.935	150.726	168.117	133.334	104.349
87.5	27.826	24.348	27.826	57.972	474.207	299.133	32.464	34.783	26.667	20.870
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

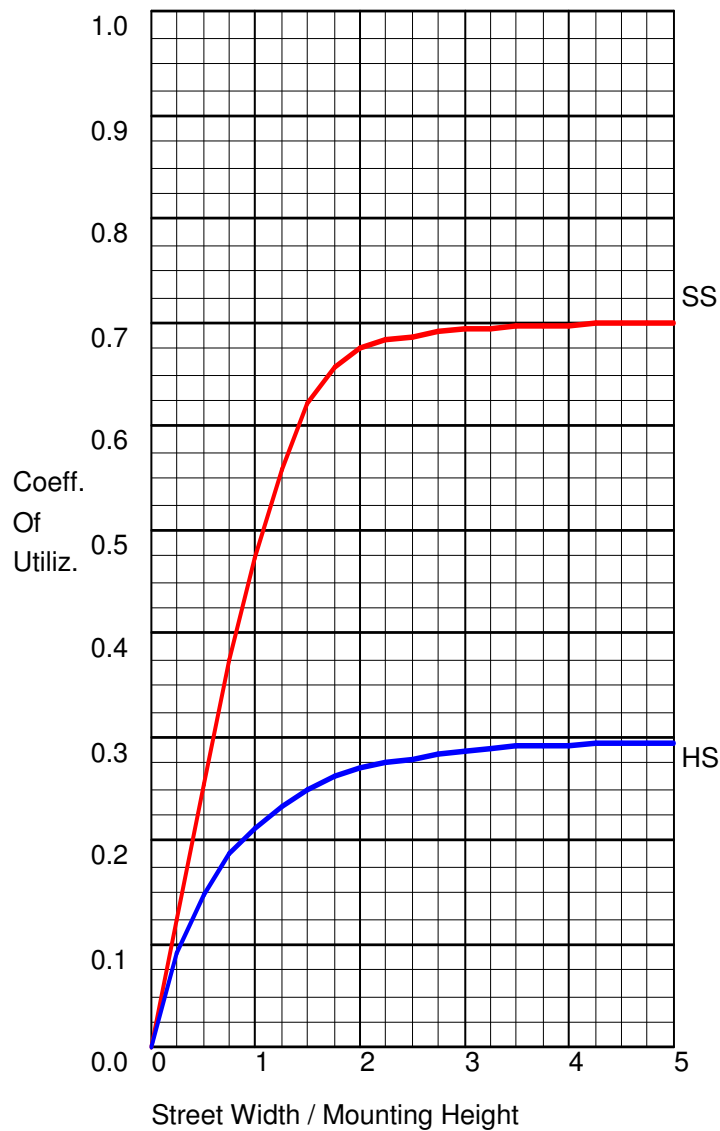
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	6542.664	6542.664
2.5	6177.443	6182.081
5.0	5547.873	5554.829
7.5	4455.690	4456.849
10.0	3261.477	3255.680
12.5	3011.040	3005.243
15.0	2977.416	2976.257
17.5	2962.344	2960.025
20.0	2924.083	2919.445
22.5	2847.560	2840.604
25.0	2751.327	2753.646
27.5	2650.457	2652.776
30.0	2563.500	2564.659
32.5	2481.180	2481.180
35.0	2400.020	2398.861
37.5	2318.860	2309.585
40.0	2220.309	2211.033
42.5	2109.003	2100.887
45.0	2012.771	2008.133
47.5	1960.596	1960.596
50.0	2151.902	2179.728
52.5	2726.979	2772.197
55.0	3378.579	3430.753
57.5	3800.612	3895.685
60.0	3555.972	3569.885
62.5	3002.924	2966.981
65.0	2490.456	2493.934

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-740-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	2008.133	1989.582
70.0	1674.217	1662.623
72.5	1379.722	1364.649
75.0	948.414	941.457
77.5	527.541	524.062
80.0	352.467	343.191
82.5	224.929	224.929
85.0	83.479	69.566
87.5	9.275	3.478
90.0	0.000	0.000

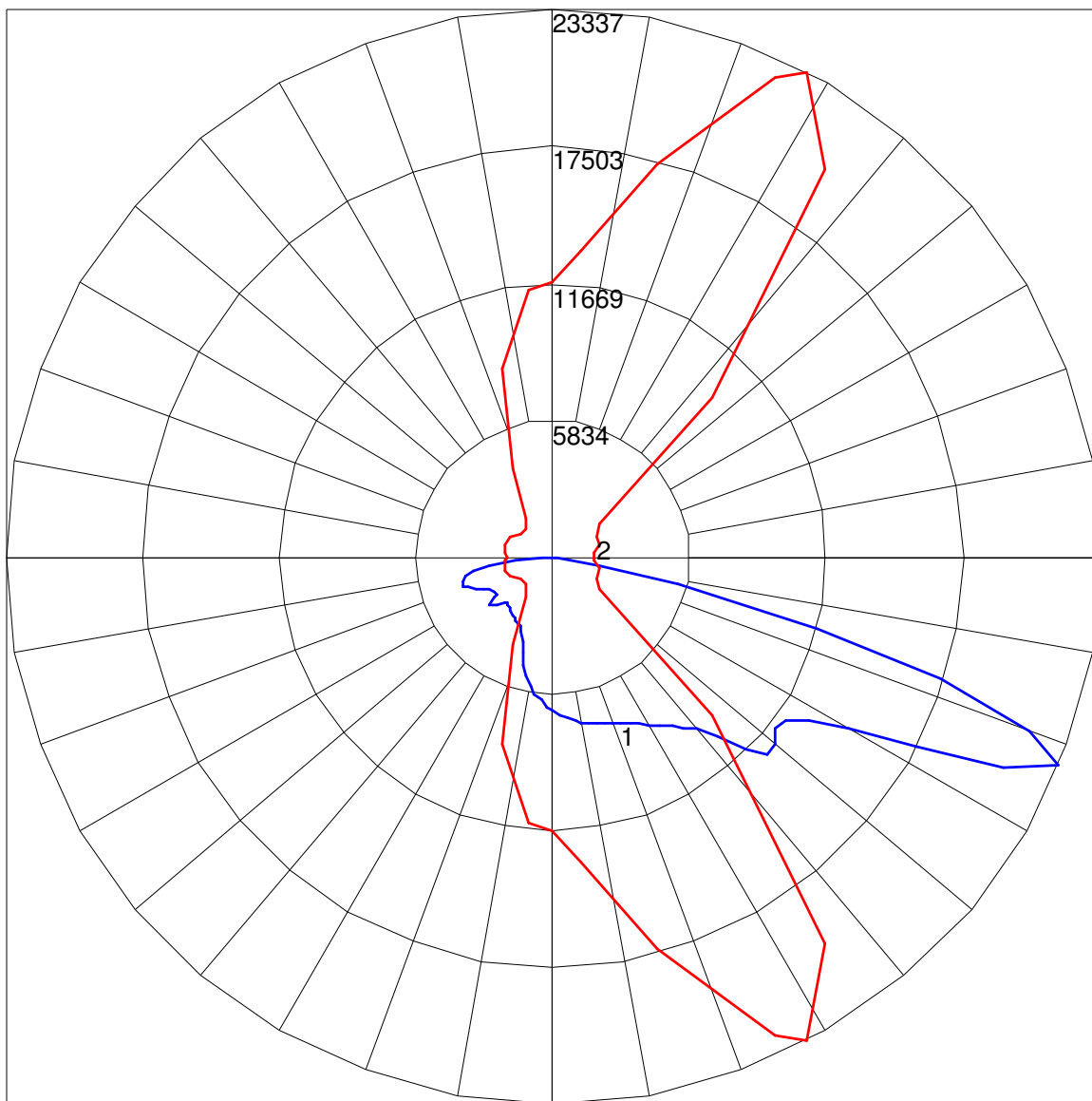
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

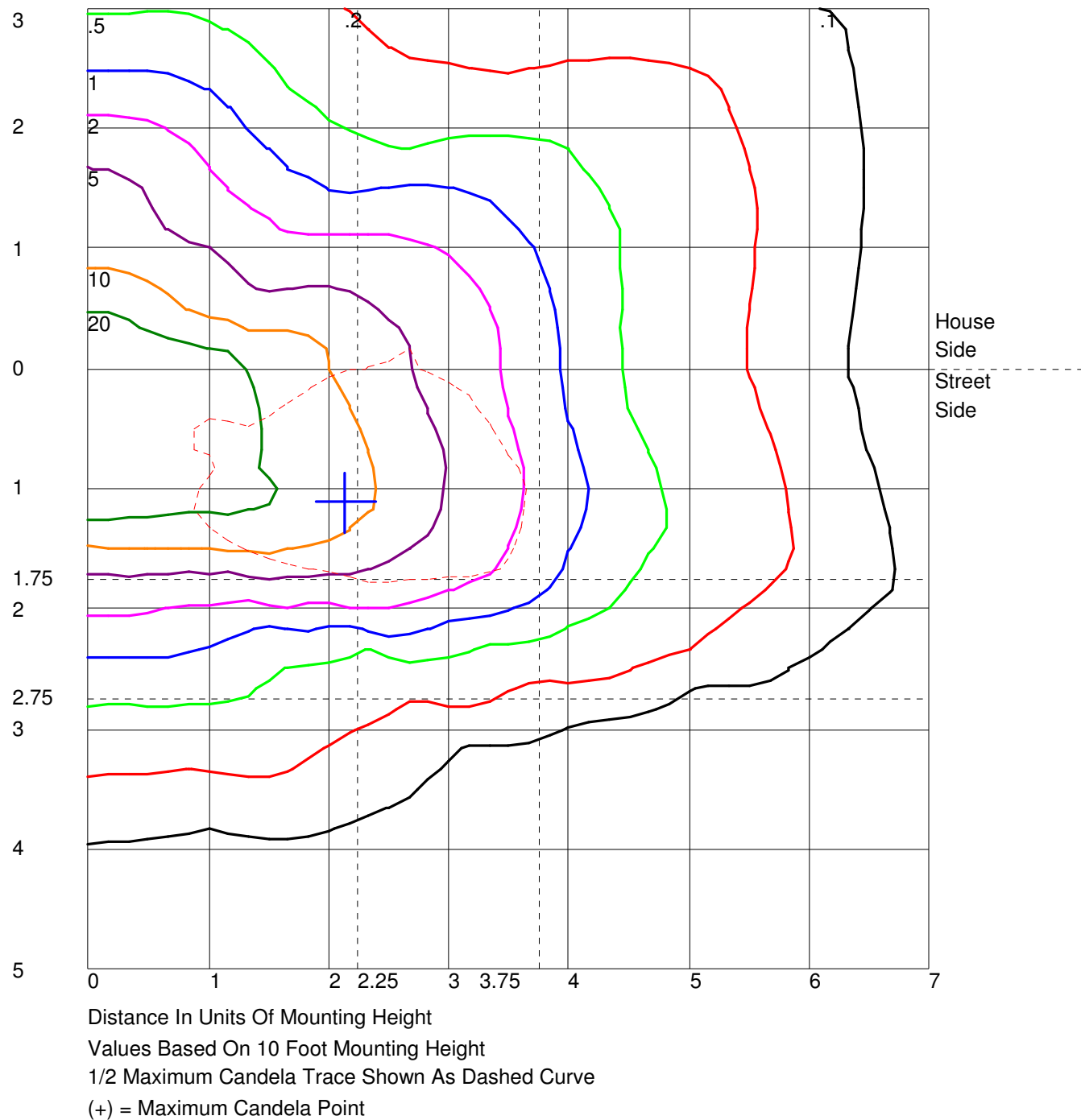
	Lumens	Percent Of Luminaire
Downward Street Side	22165.2	70.2
Downward House Side	9425.9	29.8
Downward Total	31591.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	31591.1	100.0

POLAR GRAPH

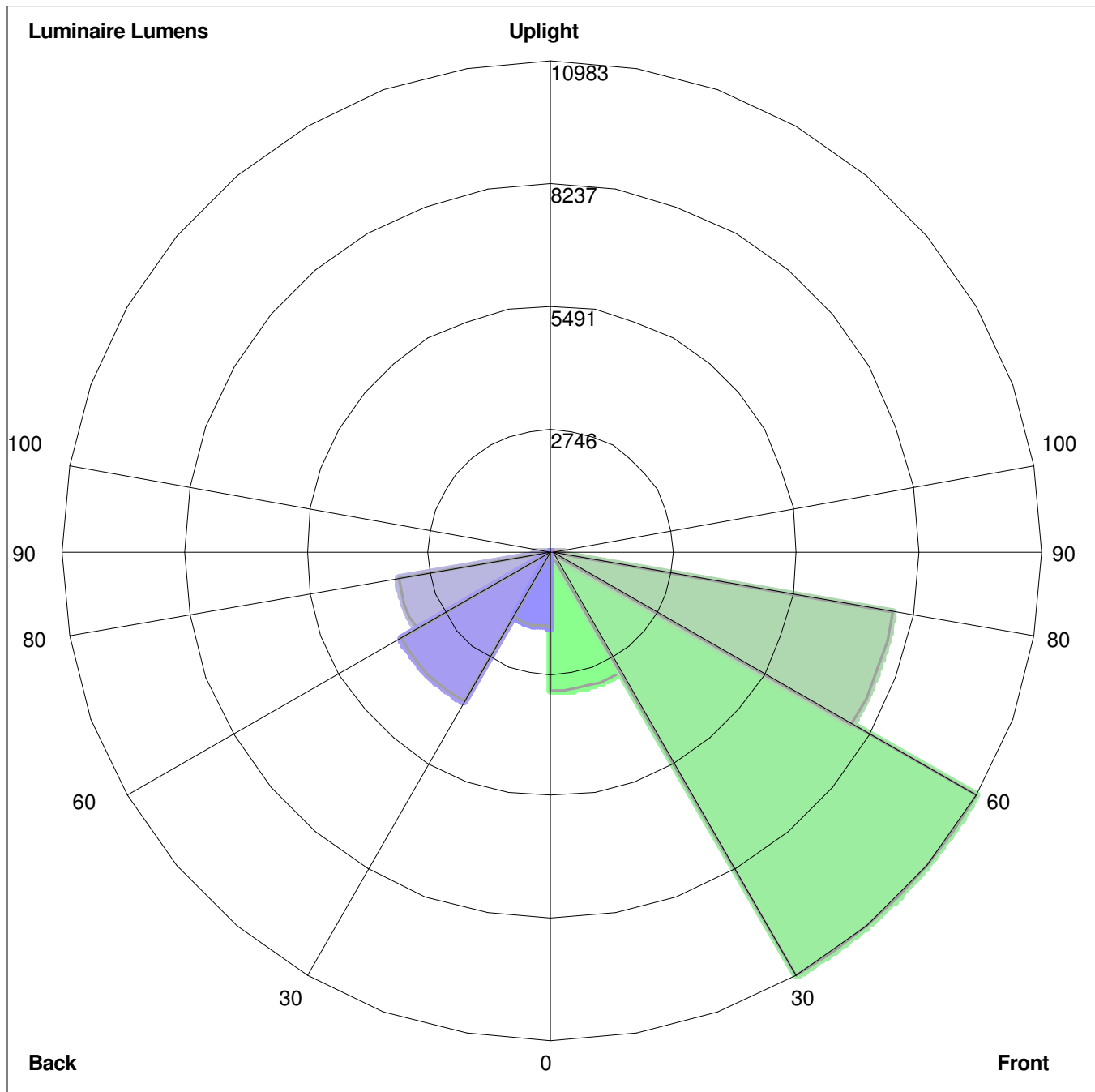


Maximum Candela = 23337.008 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3140.1, Medium=10982.5, High=7782.2, Very High=260.4
Back: Low=1690.6, Medium=3892.8, High=3485.4, Very High=357.0
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4