



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-750-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-750-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] 5000K 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	32501
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24009.262
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	24009.262
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	5574.09 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3230.5	N.A.	9.9
FM - Front-Medium (30-60)	11298.9	N.A.	34.8
FH - Front-High (60-80)	8006.4	N.A.	24.6
FVH - Front-Very High (80-90)	267.9	N.A.	0.8
BL - Back-Low (0-30)	1739.3	N.A.	5.4
BM - Back-Medium (30-60)	4005.0	N.A.	12.3
BH - Back-High (60-80)	3585.8	N.A.	11.0
BVH - Back-Very High (80-90)	367.3	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	32501.1	N.A.	100.0
BUG Rating	B4-U0-G4		

IES ROAD REPORT
PHOTOMETRIC FILENAME : VA2-L330-750-T3-F-S-XXX-DIM-UNV_.IES

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	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134
2.5	6999.521	6987.592	6987.592	6999.521	6966.121	6937.494	6933.915	6911.251	6892.166	6852.803
5.0	7284.607	7290.571	7284.607	7275.064	7232.122	7185.602	7160.553	7086.597	7062.741	6963.736
7.5	7332.320	7344.248	7343.055	7351.405	7352.598	7346.634	7334.706	7250.015	7227.351	7080.633
10.0	7286.992	7289.378	7286.992	7303.692	7332.320	7377.647	7420.589	7382.419	7366.912	7209.459
12.5	7272.678	7272.678	7257.172	7270.293	7304.885	7364.526	7443.253	7464.724	7470.688	7341.863
15.0	7334.706	7322.777	7296.535	7283.414	7310.849	7372.876	7459.953	7526.751	7541.065	7482.616
17.5	7453.989	7456.374	7421.782	7381.226	7375.262	7421.782	7508.859	7603.092	7617.406	7629.334
20.0	7615.020	7622.177	7591.164	7544.644	7524.365	7529.137	7609.056	7715.218	7736.689	7797.523
22.5	7743.846	7766.510	7743.846	7731.918	7718.797	7716.411	7777.245	7866.707	7900.107	7970.483
25.0	7852.393	7854.779	7846.429	7875.057	7929.927	7945.434	7987.183	8043.246	8083.802	8137.480
27.5	7957.362	7938.277	7910.842	7963.326	8104.080	8207.856	8232.906	8249.605	8267.498	8298.511
30.0	8049.210	8034.896	8000.304	8003.883	8192.350	8478.629	8528.727	8498.907	8482.207	8469.086
32.5	8062.331	8051.596	8064.717	8101.695	8257.955	8732.701	8861.527	8755.365	8727.930	8615.804
35.0	8040.860	8038.475	8086.188	8204.278	8464.315	8970.074	9237.268	9088.164	9003.473	8758.943
37.5	7990.762	7984.797	8067.103	8346.225	8817.392	9281.403	9663.108	9448.399	9304.066	8855.563
40.0	7897.721	7919.192	8048.017	8600.297	9604.659	10271.451	10242.823	9836.068	9652.372	8960.532
42.5	7855.972	7881.021	8000.304	8549.006	9813.404	11288.934	11454.737	10629.299	10267.872	9127.528
45.0	8230.520	8236.484	8179.229	8538.270	9634.480	11245.992	12410.193	11948.568	11551.356	9649.987
47.5	9030.908	9018.980	8972.460	9051.187	9673.843	10937.049	12509.198	12791.898	12652.337	10933.471
50.0	8995.124	8970.074	9239.654	9759.727	10245.208	10860.708	12096.479	12757.306	12716.750	11531.078
52.5	8341.453	8356.960	8881.805	9783.584	10937.049	11432.073	11880.577	12315.960	12350.552	11279.391
55.0	6577.259	6661.950	7754.581	9566.489	11479.786	12948.159	12523.512	12463.870	12529.476	11519.150
57.5	4848.850	4945.469	6057.186	8516.799	11639.626	14991.475	14310.370	13370.420	13295.272	12065.465
60.0	3827.788	3891.008	4553.028	6184.818	10537.451	116701.992	17904.363	15058.273	14782.730	13048.357
62.5	2965.373	2946.288	3291.015	4040.112	7981.219	16080.528	2075.687	18004.561	17166.002	14552.514
65.0	2085.065	2104.150	2305.738	2655.237	4749.845	14354.504	22834.326	21883.641	20535.744	16475.354
67.5	1799.979	1810.714	2052.859	2149.478	2509.712	9865.889	20757.610	24009.262	23189.789	17850.686
70.0	1436.166	1402.767	1727.216	1876.320	1854.849	4411.082	17111.132	22313.060	22904.703	18400.580
72.5	1021.062	985.277	1109.331	1580.498	1426.623	2289.039	10968.063	17856.650	19045.901	17208.944
75.0	778.917	769.375	790.846	1208.336	1146.309	1389.646	4753.424	11962.882	13179.568	12287.332
77.5	521.266	516.495	536.773	796.810	960.227	928.021	1932.383	5613.453	6869.502	8005.076
80.0	326.835	317.293	347.113	496.217	827.823	596.415	937.564	2070.751	3258.809	5574.090
82.5	170.575	171.767	192.045	288.665	565.401	335.185	475.939	755.061	1110.524	2832.969
85.0	66.798	66.798	77.534	125.247	202.781	133.597	181.310	240.951	313.714	650.092
87.5	8.350	9.543	11.928	19.085	26.242	19.085	29.821	29.821	39.363	42.942
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	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134	6731.134
2.5	6791.968	6786.004	6744.255	6682.228	6607.080	6524.775	6479.447	6428.156	6347.043	6326.765
5.0	6831.332	6778.847	6697.735	6549.824	6387.599	6203.904	6066.728	5933.132	5812.656	5737.508
7.5	6890.973	6795.547	6672.685	6430.541	6158.576	5842.477	5539.498	5229.362	4915.648	4685.432
10.0	6970.893	6824.175	6666.721	6320.801	5906.889	5374.888	4735.531	4129.574	3656.021	3430.576
12.5	7063.933	6869.502	6676.264	6211.061	5608.682	4704.518	3781.268	3313.679	3155.033	3110.898
15.0	7177.252	6939.879	6704.892	6106.092	5216.241	3939.914	3276.701	3133.562	3089.427	3069.149
17.5	7316.813	7035.306	6754.991	5993.966	4709.289	3421.034	3168.154	3102.548	3067.956	3053.642
20.0	7474.267	7160.553	6827.753	5875.876	4152.238	3223.024	3133.562	3085.849	3046.485	3017.857
22.5	7648.420	7301.306	6907.673	5735.122	3702.541	3174.118	3108.512	3052.449	2997.579	2946.288
25.0	7818.994	7437.289	6979.243	5551.426	3426.998	3149.069	3067.956	2985.651	2916.467	2859.211
27.5	7993.147	7581.621	7046.041	5322.403	3294.594	3119.248	2999.965	2909.310	2836.547	2768.556

IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-750-T3-F-S-XXX-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

30.0	8164.915	7729.532	7121.189	5064.752	3234.952	3070.342	2921.238	2817.462	2745.892	2685.058
32.5	8316.404	7857.165	7187.988	4788.016	3188.432	3003.543	2837.740	2722.036	2658.816	2609.910
35.0	8424.951	7938.277	7229.737	4513.665	3128.791	2922.431	2751.857	2624.224	2571.739	2521.641
37.5	8455.965	7952.591	7229.737	4273.906	3059.606	2832.969	2665.973	2529.990	2479.892	2426.214
40.0	8489.364	7969.291	7220.194	4089.018	2994.001	2747.085	2586.053	2445.299	2391.622	2326.017
42.5	8532.306	7971.676	7211.844	3941.107	2945.095	2670.744	2504.941	2370.151	2286.653	2219.855
45.0	8782.800	8184.000	7372.876	3877.887	2894.996	2606.331	2445.299	2303.353	2175.720	2111.307
47.5	9641.637	8887.769	8028.932	4199.951	2978.494	2569.354	2407.129	2268.761	2104.150	2050.473
50.0	10116.383	9375.636	8472.664	4685.432	3437.733	2687.444	2407.129	2296.196	2148.285	2197.191
52.5	9862.310	9147.806	8243.641	4428.974	3610.693	3098.970	2478.699	2333.174	2347.487	2667.166
55.0	10128.311	9444.820	8624.154	4501.737	3187.239	2959.409	2747.085	2346.295	2577.703	3195.589
57.5	10626.914	10013.800	9357.744	5272.304	3120.441	2566.968	2503.748	2374.923	2689.829	3467.554
60.0	11356.925	10675.820	10320.357	6467.519	3182.468	2414.286	2181.684	2167.370	2642.116	3325.607
62.5	12249.161	11455.930	11231.678	7709.254	3369.742	2302.160	2006.338	2000.374	2507.327	2967.759
65.0	13144.976	11919.940	11591.912	8329.525	3763.376	2207.927	1853.656	1864.392	2345.102	2611.103
67.5	13480.161	12063.080	11758.908	8558.548	4223.808	2094.608	1697.396	1712.902	2131.585	2237.747
70.0	13362.071	12125.107	12011.788	8453.579	4656.804	1961.011	1512.507	1522.050	1871.549	1949.083
72.5	12096.479	11220.943	11220.943	8050.403	4951.433	1845.306	1307.341	1318.076	1607.934	1641.333
75.0	8215.013	7548.222	7649.612	6620.201	4923.998	1758.230	1100.981	1116.488	1343.125	1294.219
77.5	5073.102	4556.607	4613.863	5322.403	4635.334	1672.346	885.079	900.586	1060.425	747.904
80.0	3892.201	3372.128	3491.411	4167.745	4158.202	1562.606	652.477	672.756	765.796	359.042
82.5	1822.643	1654.454	1847.692	2513.291	3285.051	1374.139	353.077	431.804	430.611	226.638
85.0	246.916	234.987	324.449	860.030	1883.477	889.850	155.068	172.960	137.175	107.355
87.5	28.628	25.049	28.628	59.641	487.867	307.750	33.399	35.785	27.435	21.471
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

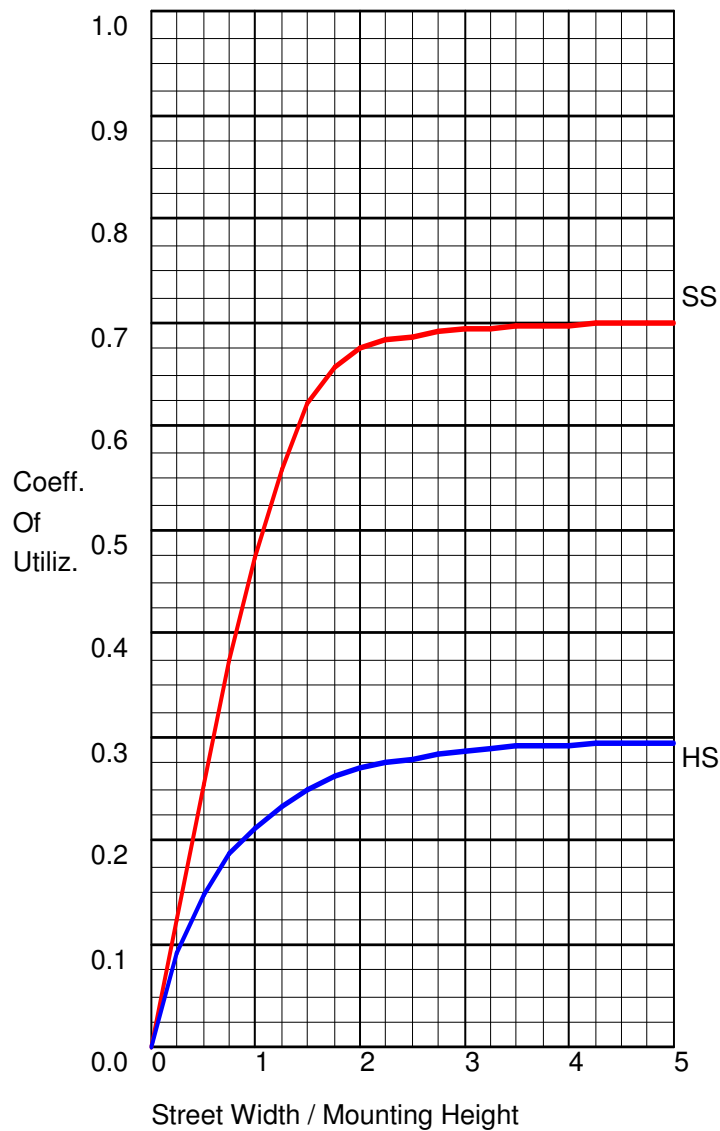
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	6731.134	6731.134
2.5	6355.393	6360.164
5.0	5707.687	5714.844
7.5	4584.042	4585.235
10.0	3355.428	3349.464
12.5	3097.777	3091.813
15.0	3063.185	3061.992
17.5	3047.678	3045.292
20.0	3008.315	3003.543
22.5	2929.588	2922.431
25.0	2830.583	2832.969
27.5	2726.807	2729.193
30.0	2637.345	2638.538
32.5	2552.654	2552.654
35.0	2469.156	2467.963
37.5	2385.658	2376.115
40.0	2284.268	2274.725
42.5	2169.756	2161.406
45.0	2070.751	2065.980
47.5	2017.074	2017.074
50.0	2213.891	2242.519
52.5	2805.534	2852.054
55.0	3475.904	3529.581
57.5	3910.094	4007.905
60.0	3658.407	3672.721
62.5	3089.427	3052.449
65.0	2562.197	2565.775

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	2065.980	2046.895
70.0	1722.445	1710.517
72.5	1419.467	1403.960
75.0	975.734	968.577
77.5	542.737	539.159
80.0	362.620	353.077
82.5	231.409	231.409
85.0	85.884	71.570
87.5	9.543	3.578
90.0	0.000	0.000

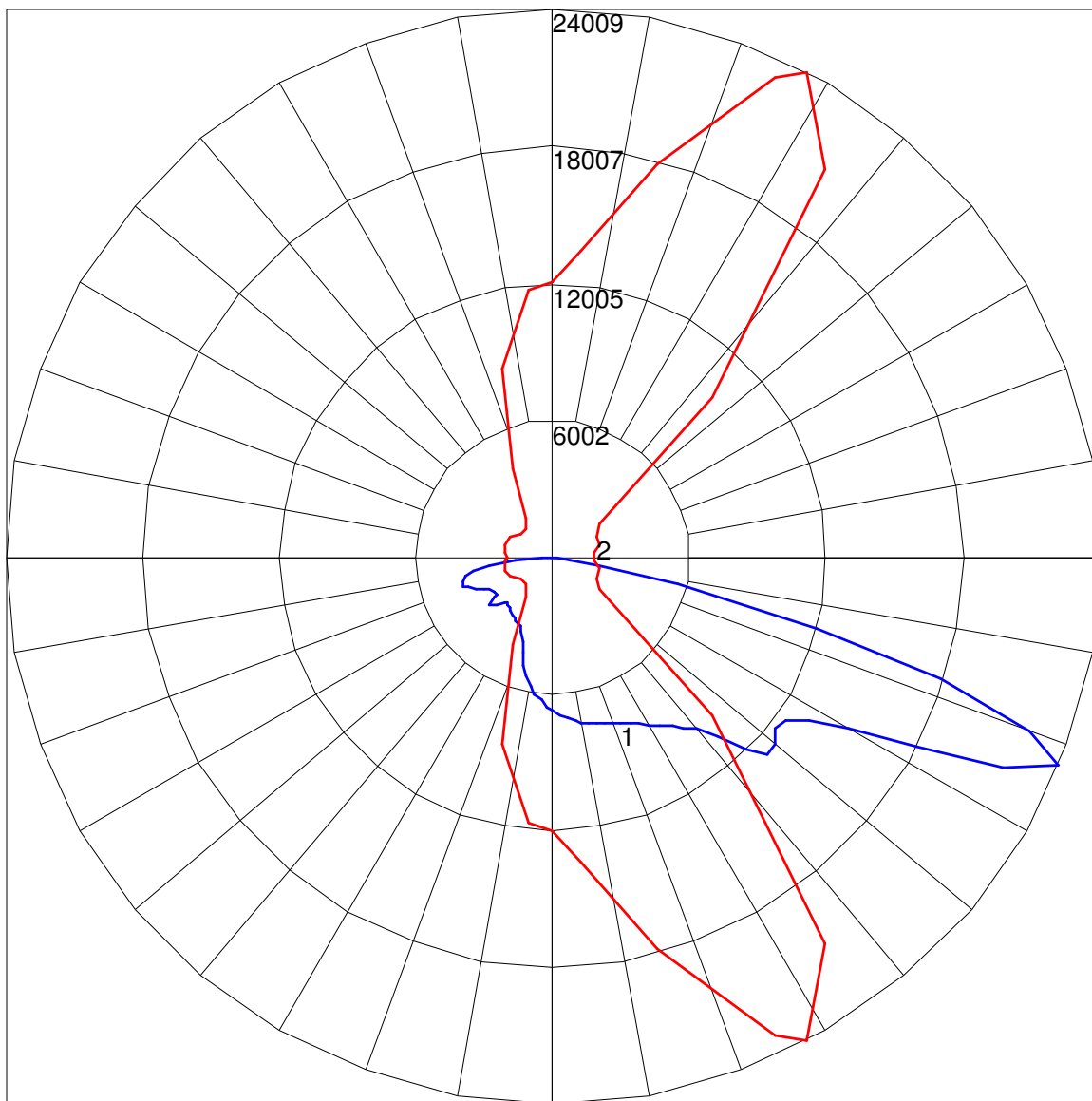
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

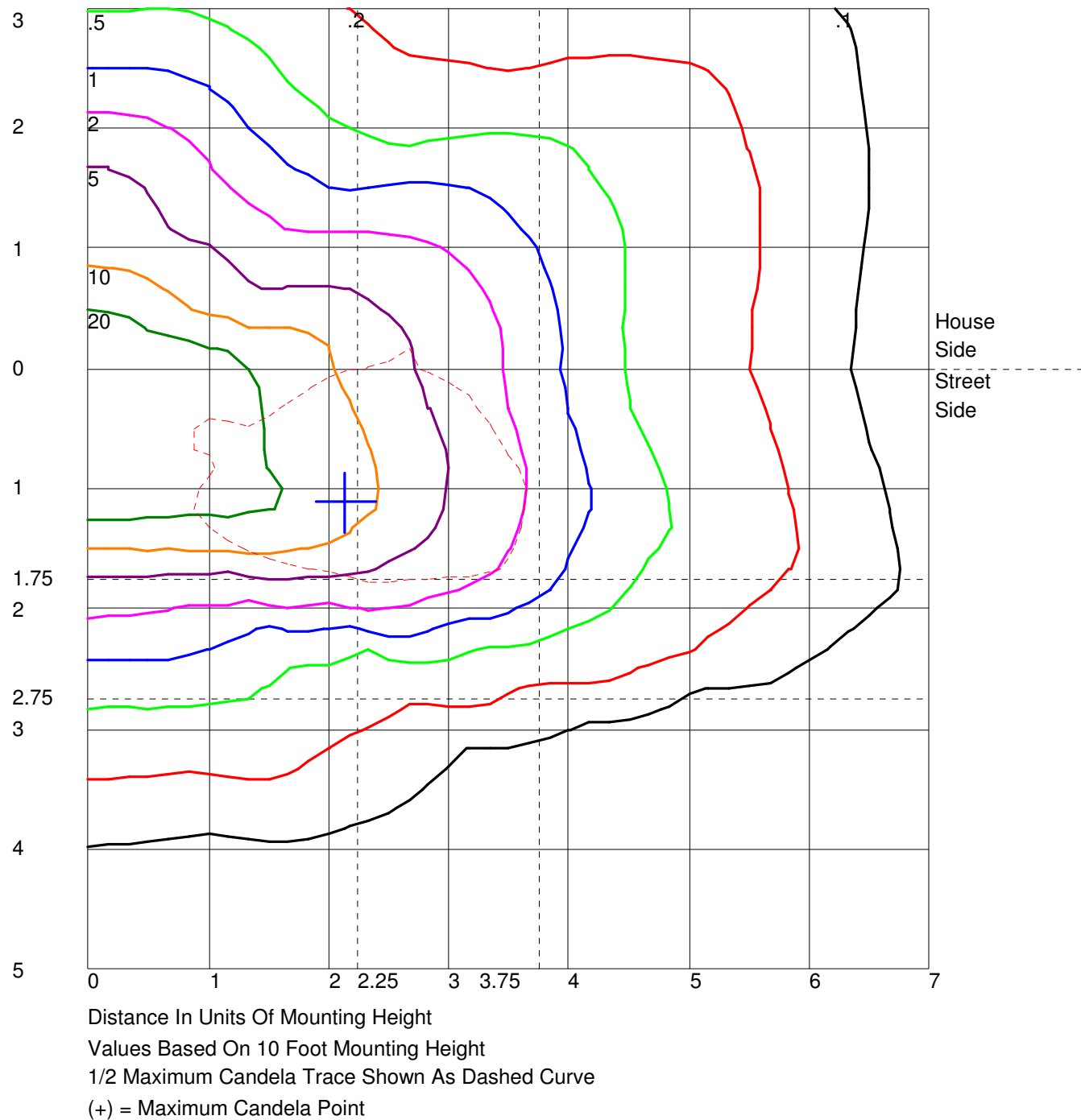
	Lumens	Percent Of Luminaire
Downward Street Side	22803.7	70.2
Downward House Side	9697.4	29.8
Downward Total	32501.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	32501.1	100.0

POLAR GRAPH

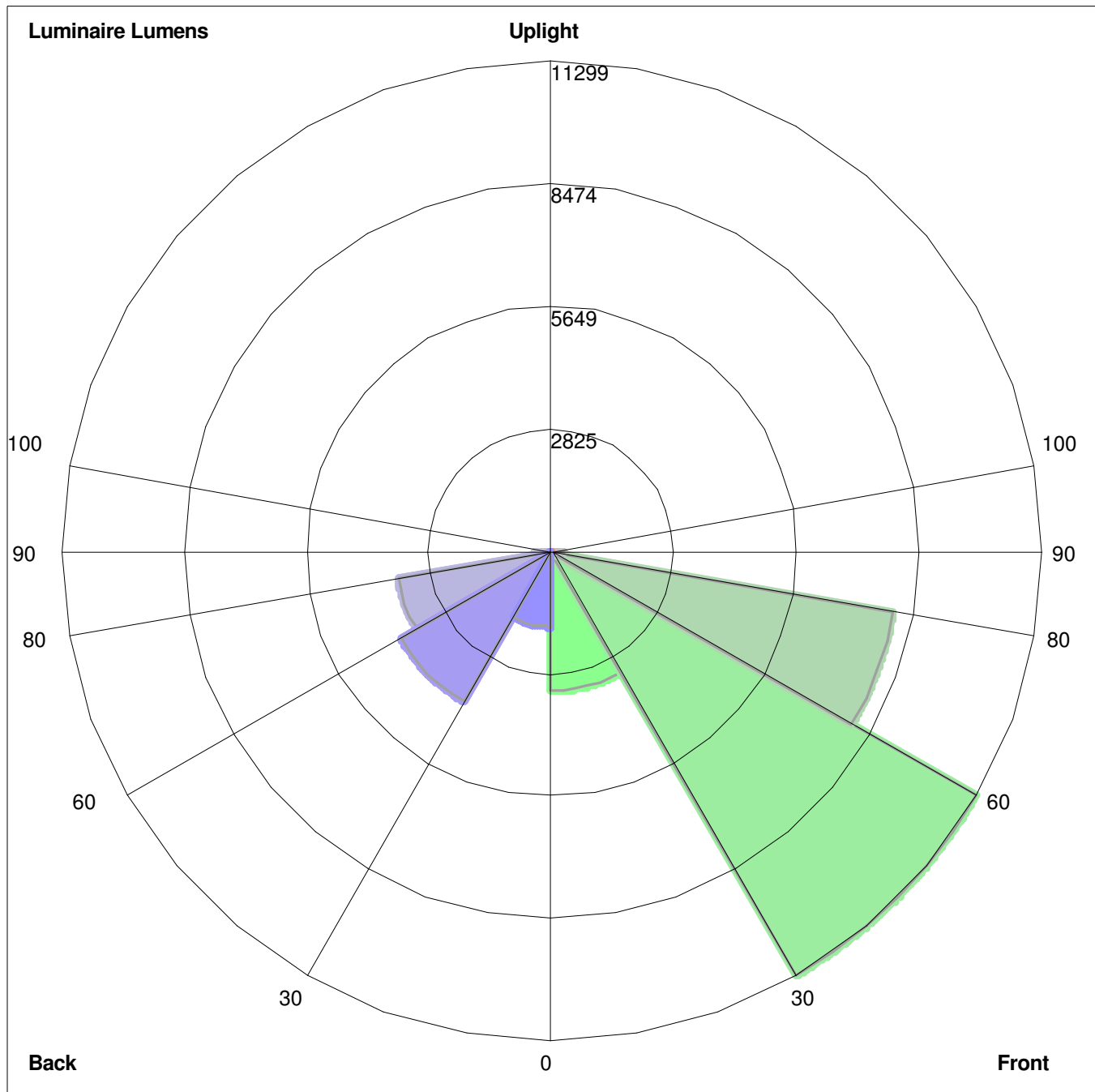


Maximum Candela = 24009.262 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3230.5, Medium=11298.9, High=8006.4, Very High=267.9
Back: Low=1739.3, Medium= 4005.0, High=3585.8, Very High=367.3
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4