



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-750-T2-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011765
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-750-T2-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE II OPTICS, CLEAR LENS, (2) LED MODULES
[MORE] AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Area, Parking
[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	36392
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	36507.192
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	36507.192
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	1543.986 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	6472.2	N.A.	17.8
FM - Front-Medium (30-60)	15779.0	N.A.	43.4
FH - Front-High (60-80)	6616.1	N.A.	18.2
FVH - Front-Very High (80-90)	94.1	N.A.	0.3
BL - Back-Low (0-30)	1503.3	N.A.	4.1
BM - Back-Medium (30-60)	3517.6	N.A.	9.7
BH - Back-High (60-80)	2261.3	N.A.	6.2
BVH - Back-Very High (80-90)	148.7	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	36392.3	N.A.	100.0
BUG Rating	B3-U0-G3		

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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	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019
2.5	10076.618	10007.484	9958.323	9889.189	9787.793	9580.392	9429.834	9197.852	8939.753	8867.547
5.0	12279.678	12295.041	12165.991	11972.417	11669.765	11202.729	10755.664	10178.014	9545.057	9374.527
7.5	14473.520	14491.956	14302.990	13980.366	13504.112	12783.586	12072.277	11156.640	10162.651	9904.552
10.0	16343.202	16317.085	16109.684	15742.507	15195.583	14307.599	13375.063	12130.656	10774.100	10428.432
12.5	17174.342	17129.790	17034.539	16859.400	16515.268	15690.273	14636.368	13132.327	11416.275	10976.892
15.0	17088.309	17060.656	17057.583	17086.773	17095.991	16761.077	15820.859	14184.695	12136.802	11599.095
17.5	17033.002	17011.494	17011.494	17029.930	17137.471	17235.795	16808.702	15281.616	12955.652	12315.013
20.0	17022.248	17022.248	17083.700	17106.745	17145.153	17335.654	17464.704	16449.207	13892.797	13152.299
22.5	16682.725	16724.205	16925.461	17120.572	17235.795	17363.308	17804.227	17478.531	14909.830	14081.762
25.0	15773.233	15817.786	16180.354	16759.540	17221.968	17486.212	17993.192	18417.212	16026.723	15104.941
27.5	14547.263	14604.106	14992.791	15817.786	16879.372	17567.636	18197.521	19160.783	17160.516	16146.555
30.0	13568.637	13607.045	13997.266	14705.502	15982.170	17418.615	18431.039	19712.317	18275.872	17208.141
32.5	12946.434	13000.204	13336.655	13925.059	14988.182	16993.059	18687.602	20157.845	19348.213	18222.102
35.0	12338.057	12390.292	12771.295	13345.873	14229.248	16361.638	18922.656	20514.267	20237.733	19068.605
37.5	11387.085	11479.263	11941.691	12616.128	13574.782	15791.669	19240.671	20818.455	20955.187	19822.930
40.0	9955.250	10048.964	10657.341	11592.950	12689.871	14998.936	19773.769	21153.370	21635.769	20629.490
42.5	8188.500	8110.149	8778.441	9944.496	11480.800	13846.708	19919.718	22184.230	22265.654	21371.525
45.0	6317.282	6263.511	6721.330	7692.274	9588.073	12507.051	19051.706	24072.347	22824.868	22025.990
47.5	5091.311	5036.005	5264.914	5735.023	7129.987	10554.408	17370.989	25562.562	24043.158	23013.834
50.0	4496.762	4455.282	4524.415	4645.783	5212.679	7365.041	15249.353	26366.049	26461.300	25478.065
52.5	4223.300	4184.892	4195.646	4129.585	4347.740	4974.552	11668.229	27226.379	30234.463	29109.888
55.0	3788.526	3748.582	3926.793	3966.737	4009.753	4230.981	7486.409	27562.830	33654.275	32667.968
57.5	3306.126	3276.936	3484.337	3822.324	3919.111	3980.564	5751.922	25687.003	34737.370	33979.972
60.0	2866.743	2848.308	3063.390	3452.075	3754.727	3765.481	5349.411	21873.896	34390.165	34165.865
62.5	2362.836	2375.126	2654.733	3052.636	3370.651	3405.986	5000.670	17561.491	34075.223	34473.125
65.0	1866.609	1885.045	2196.915	2605.572	2906.687	2906.687	4392.293	13422.688	33963.072	34907.899
67.5	1278.205	1278.205	1657.672	2117.027	2408.925	2398.171	3581.125	9886.116	35321.165	36376.606
68.0	1155.301	1155.301	1502.505	2014.095	2307.529	2293.702	3401.377	9291.567	35510.131	36507.192
70.0	920.246	923.319	1035.469	1596.220	1909.626	1897.335	2686.996	7162.249	33118.105	33912.374
72.5	717.454	729.744	812.705	1073.876	1474.852	1499.433	1891.190	4518.270	23546.931	23534.641
75.0	537.706	548.461	620.667	755.862	1141.474	1255.160	1244.406	2267.585	9460.560	8933.608
77.5	374.858	391.758	450.137	546.924	883.375	1126.111	732.817	1107.675	1975.687	1960.324
80.0	248.881	262.708	304.188	356.423	649.857	814.241	448.601	603.767	809.632	826.532
82.5	138.267	147.485	170.530	198.183	399.439	384.076	253.490	313.406	427.093	413.266
85.0	53.771	59.916	69.134	78.352	192.038	133.658	99.860	116.759	159.776	155.167
87.5	6.145	7.682	9.218	9.218	29.190	10.754	9.218	9.218	15.363	15.363
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	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019	8422.019
2.5	8675.509	8524.951	8355.957	8041.015	7735.291	7440.320	7151.495	6942.558	6781.246	6661.414
5.0	8881.373	8508.052	8122.439	7388.086	6681.386	6036.138	5470.779	5036.005	4713.381	4490.617
7.5	9084.166	8514.197	7916.574	6762.810	5702.760	4785.587	4057.379	3561.153	3246.210	3080.290
10.0	9310.002	8528.023	7723.000	6179.015	4819.386	3773.163	3146.351	2860.598	2748.448	2693.141
12.5	9577.319	8578.722	7570.906	5652.062	4078.887	3118.697	2780.710	2673.169	2616.326	2577.918
15.0	9883.044	8684.726	7466.437	5174.272	3488.946	2808.364	2653.197	2580.991	2533.365	2505.712
17.5	10274.801	8861.401	7414.203	4734.889	3084.898	2676.242	2570.237	2516.466	2481.131	2450.405
20.0	10771.027	9104.137	7411.130	4360.031	2862.134	2602.499	2510.321	2473.449	2448.869	2413.534
22.5	11296.443	9403.717	7455.683	4040.480	2745.375	2548.728	2467.304	2441.187	2431.969	2390.489
25.0	11866.412	9749.385	7538.644	3773.163	2676.242	2498.030	2433.506	2413.534	2411.997	2353.618

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CANDELA TABULATION - (Cont.)

27.5	12490.15110133.4617649.258	3556.544	2617.862	2448.869	2393.562	2384.344	2370.517	2304.456
30.0	13133.86310522.1467784.452	3381.405	2562.555	2395.098	2342.864	2338.255	2309.065	2244.540
32.5	13734.55810907.7587915.038	3243.138	2511.857	2339.791	2282.948	2270.657	2219.959	2127.781
35.0	14253.82811215.0198030.261	3127.915	2461.159	2282.948	2215.350	2166.189	2063.256	1961.860
37.5	14727.01011528.4258150.093	3024.983	2393.562	2221.496	2110.882	2018.703	1912.698	1872.755
40.0	15281.61611927.8648348.276	2952.776	2322.892	2132.390	1975.687	1854.319	1823.593	1800.548
42.5	15744.04312304.2598567.967	2909.760	2255.294	2014.095	1851.246	1731.415	1762.141	1762.141
45.0	16260.24212734.4248827.603	2888.252	2181.552	1897.335	1711.443	1656.136	1703.761	1740.632
47.5	16923.92513335.1199234.723	2905.151	2100.128	1805.157	1599.292	1590.075	1653.063	1697.616
50.0	18684.52914965.13710409.9963097.189	2035.603	1723.733	1568.566	1536.304	1605.438	1666.890	
52.5	21744.84717793.47312823.5293754.727	1960.324	1608.510	1562.421	1476.388	1579.321	1663.817	
55.0	24348.88219884.38314759.2724124.976	1812.839	1480.997	1419.545	1418.009	1571.639	1677.644	
57.5	24241.34119581.73114760.8093816.179	1616.192	1353.484	1316.613	1381.137	1568.566	1665.354	
60.0	23566.90318796.67914027.9923183.222	1433.372	1253.624	1245.943	1351.948	1536.304	1600.829	
62.5	23081.43118054.64513413.4702683.923	1276.669	1167.591	1178.345	1313.540	1459.489	1497.896	
65.0	22975.42617556.88213116.9642309.065	1139.938	1075.413	1109.211	1245.943	1342.730	1430.299	
67.5	23596.09317122.10812728.2791932.670	1013.961	975.553	1040.078	1153.764	1241.334	1737.560	
68.0	23620.67416936.21512613.0561843.565	990.916	955.581	1023.178	1132.256	1233.652	1855.855	
70.0	21760.21014590.27910975.3561545.522	901.810	878.766	960.190	1041.614	1331.976	2336.718	
72.5	16200.3269671.034	7163.786	1063.122	797.342	791.197	868.012	921.782	1745.241
75.0	5874.826	4000.536	3034.200	738.962	685.192	712.845	768.152	803.487
77.5	1401.109	1087.703	808.096	505.444	537.706	600.695	659.074	714.381
80.0	637.566	537.706	434.774	342.596	391.758	477.791	528.489	596.086
82.5	353.350	321.088	268.853	210.474	262.708	334.914	371.786	410.193
85.0	132.122	121.368	112.150	93.715	133.658	168.993	188.965	204.328
87.5	10.754	7.682	10.754	10.754	26.117	36.871	44.553	55.307
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

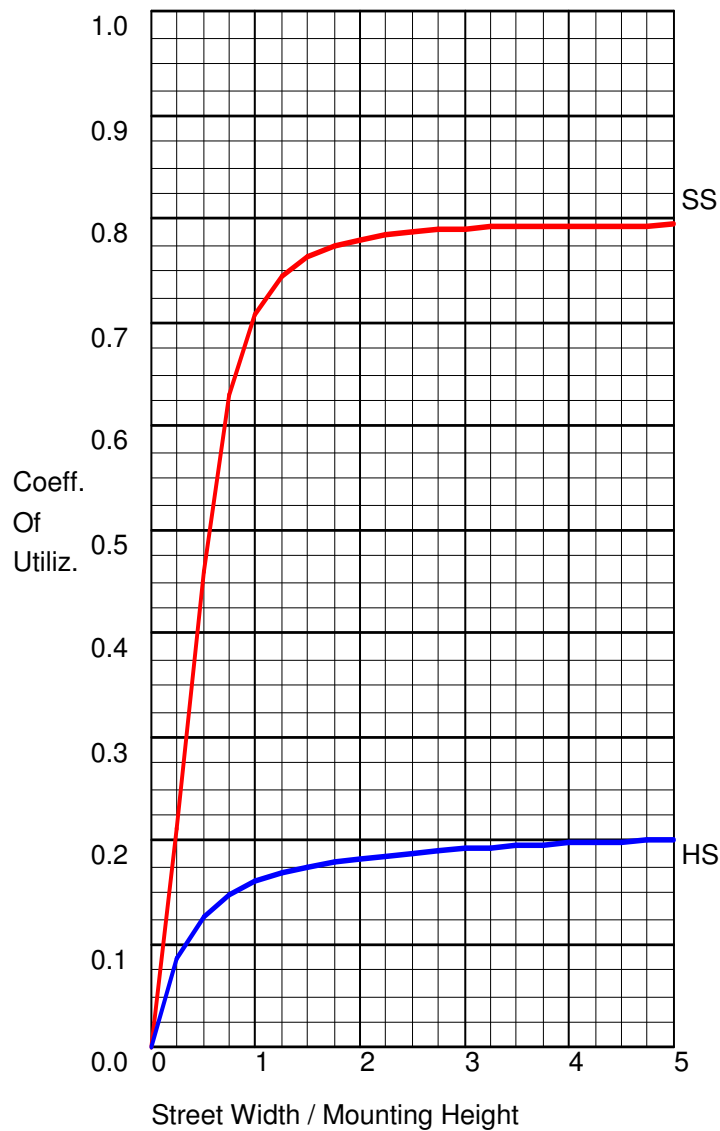
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	8422.019	8422.019
2.5	6601.498	6669.096
5.0	4375.394	4423.019
7.5	3017.301	3037.273
10.0	2674.705	2665.487
12.5	2564.091	2557.946
15.0	2488.812	2485.740
17.5	2433.506	2428.897
20.0	2392.025	2387.416
22.5	2359.763	2352.081
25.0	2312.138	2305.992
27.5	2256.831	2258.367
30.0	2181.552	2175.406
32.5	2035.603	2026.385
35.0	1917.307	1918.844
37.5	1858.928	1875.827
40.0	1789.794	1803.621
42.5	1717.588	1723.733
45.0	1697.616	1668.426
47.5	1654.599	1639.236
50.0	1625.410	1643.845
52.5	1649.990	1674.571
55.0	1682.253	1706.834
57.5	1680.717	1703.761
60.0	1626.946	1646.918

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	1539.377	1565.494
65.0	1548.594	1608.510
67.5	1928.062	2014.095
68.0	2017.167	2103.200
70.0	2301.383	2385.880
72.5	2464.232	2528.756
75.0	2138.535	2140.071
77.5	1519.405	1462.561
80.0	1004.743	941.754
82.5	605.304	573.041
85.0	212.010	168.993
87.5	32.262	9.218
90.0	0.000	0.000

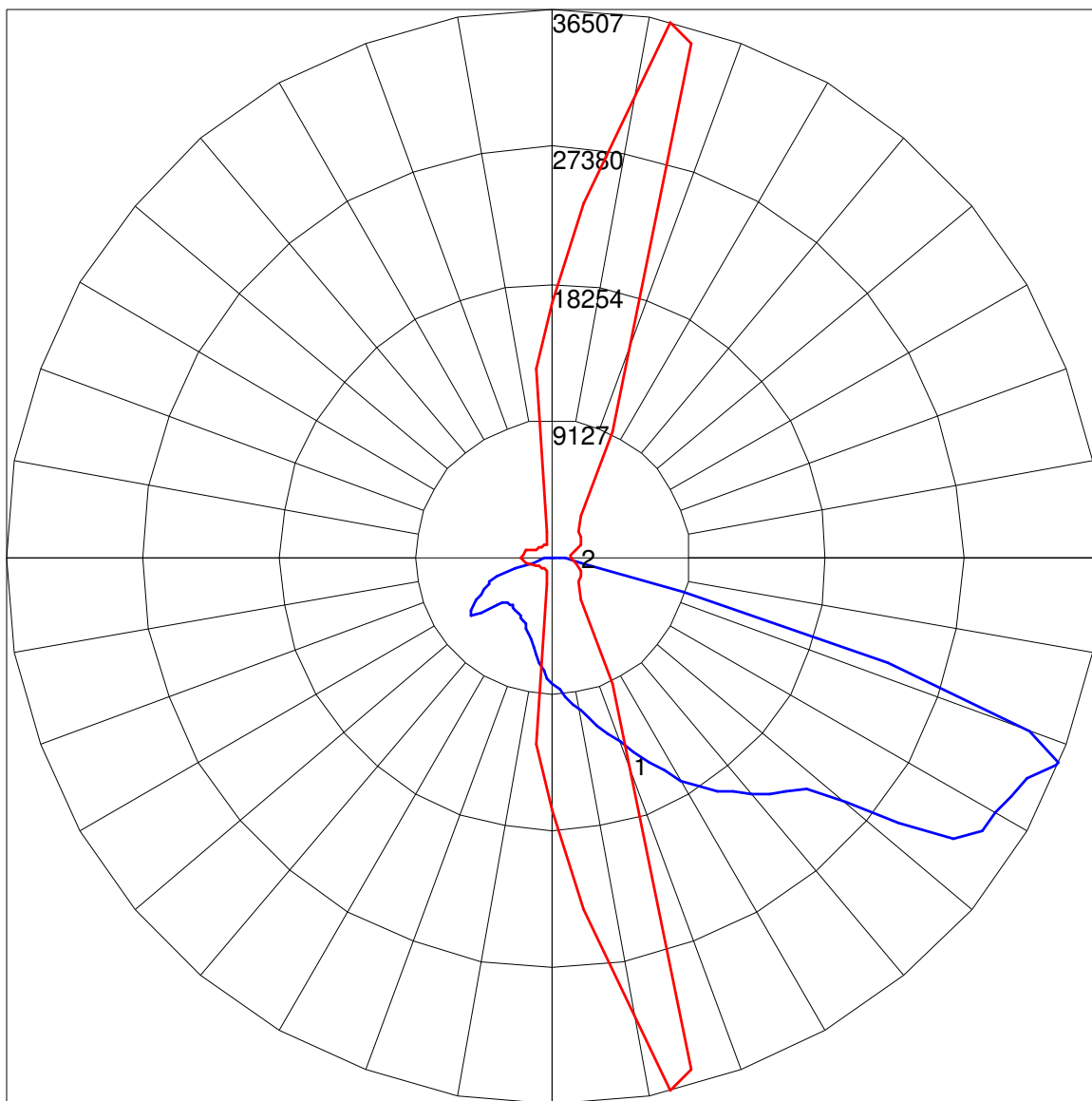
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

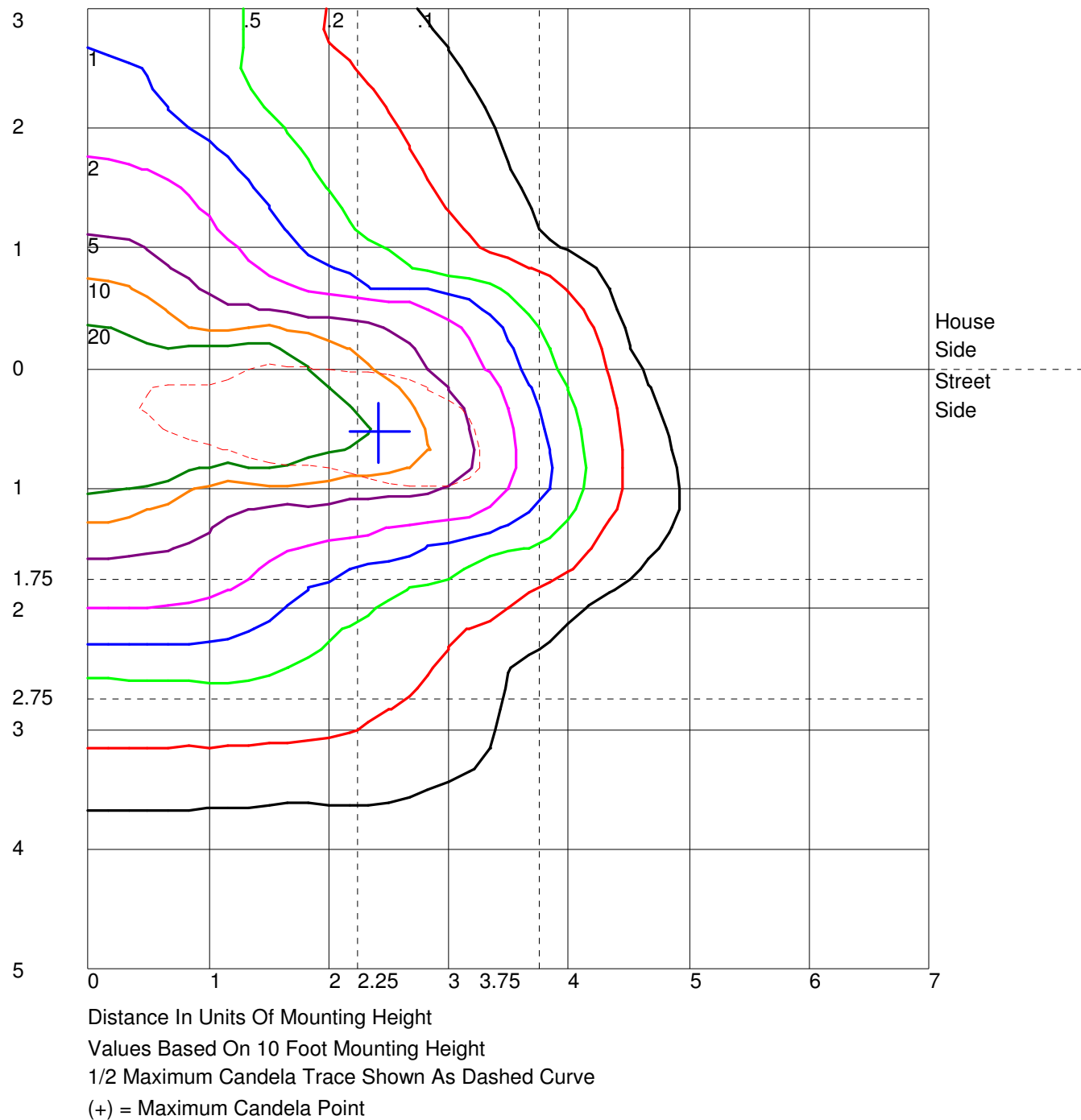
	Lumens	Percent Of Luminaire
Downward Street Side	28961.4	79.6
Downward House Side	7430.9	20.4
Downward Total	36392.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	36392.4	100.0

POLAR GRAPH

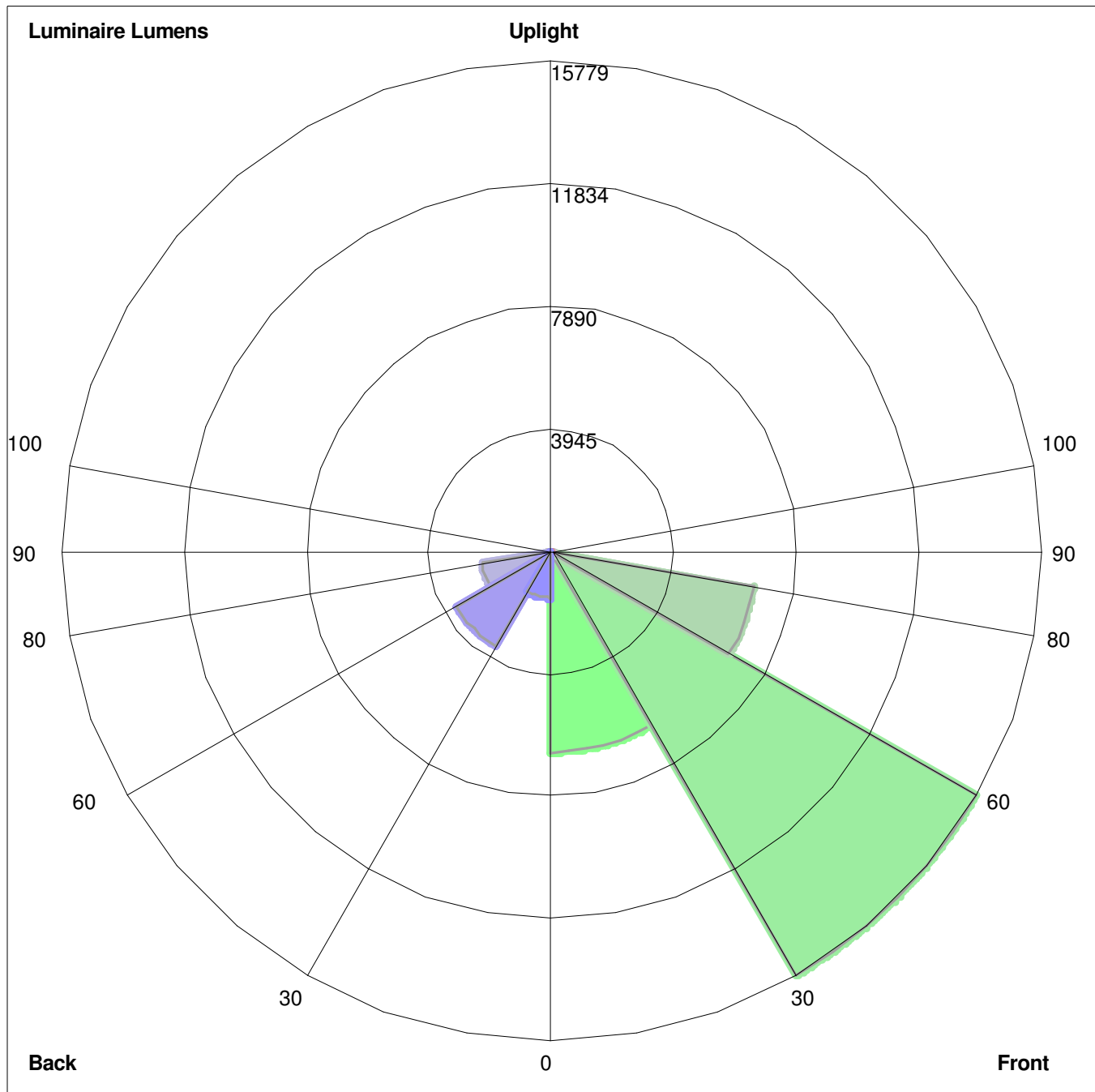


Maximum Candela = 36507.192 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=6472.2, Medium= 15779.0, High=6616.1, Very High=94.1
Back: Low=1503.3, Medium=3517.6, High=2261.3, Very High=148.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3