



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-740-T2-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011765
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-740-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	35332
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	35443.869
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	35443.869
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	1499.015 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-740-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	6283.7	N.A.	17.8
FM - Front-Medium (30-60)	15319.5	N.A.	43.4
FH - Front-High (60-80)	6423.4	N.A.	18.2
FVH - Front-Very High (80-90)	91.3	N.A.	0.3
BL - Back-Low (0-30)	1459.5	N.A.	4.1
BM - Back-Medium (30-60)	3415.1	N.A.	9.7
BH - Back-High (60-80)	2195.4	N.A.	6.2
BVH - Back-Very High (80-90)	144.4	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	35332.3	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	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715
2.5	9783.122	9716.002	9668.272	9601.152	9502.710	9301.349	9155.177	8929.952	8679.370	8609.267
5.0	11922.015	11936.931	11811.640	11623.704	11329.867	10876.434	10442.391	9881.565	9267.044	9101.481
7.5	14051.959	14069.857	13886.396	13573.169	13110.786	12411.246	11720.655	10831.687	9866.650	9616.068
10.0	15867.183	15841.827	15640.467	15283.985	14752.990	13890.870	12985.495	11777.334	10460.289	10124.689
12.5	16674.116	16630.861	16538.384	16368.347	16034.238	15233.272	14210.064	12749.829	11083.760	10657.175
15.0	16590.589	16563.741	16560.757	16589.097	16598.046	16272.887	15360.054	13771.546	11783.300	11261.255
17.5	16536.892	16516.011	16516.011	16533.909	16638.318	16733.778	16319.125	14836.517	12578.300	11956.321
20.0	16526.452	16526.452	16586.114	16608.487	16645.776	16830.729	16956.020	15970.101	13488.150	12769.219
22.5	16196.817	16237.090	16432.483	16621.911	16733.778	16857.577	17285.654	16969.444	14475.561	13671.611
25.0	15313.816	15357.071	15709.078	16271.395	16720.354	16976.902	17469.116	17880.785	15559.923	14664.988
27.5	14123.553	14178.741	14556.105	15357.071	16387.737	17055.954	17667.493	18602.699	16660.692	15676.264
30.0	13173.431	13210.720	13589.576	14277.184	15516.667	16911.273	17894.209	19138.168	17743.562	16706.930
32.5	12569.351	12621.555	12948.206	13519.473	14551.630	16498.112	18143.299	19570.719	18784.669	17691.358
35.0	11978.694	12029.407	12399.313	12957.156	13814.801	15885.082	18371.508	19916.761	19648.280	18513.206
37.5	11055.420	11144.914	11593.873	12248.666	13179.398	15331.714	18680.260	20212.089	20344.838	19245.560
40.0	9665.289	9756.274	10346.931	11255.289	12320.261	14562.071	19197.830	20537.248	21005.597	20028.627
42.5	7949.999	7873.929	8522.757	9654.848	11146.405	13443.403	19339.528	21538.083	21617.136	20749.049
45.0	6133.282	6081.078	6525.562	7468.226	9308.807	12142.766	18496.798	23371.207	22160.062	21384.453
47.5	4943.020	4889.324	5111.566	5567.982	6922.316	10246.997	16865.035	24818.017	23342.867	22343.524
50.0	4365.787	4325.515	4392.635	4510.468	5060.853	7150.524	14805.195	25598.101	25690.578	24735.981
52.5	4100.290	4063.001	4073.442	4009.305	4221.106	4829.662	11328.375	26433.373	29353.842	28262.022
55.0	3678.180	3639.399	3812.420	3851.200	3892.964	4107.748	7268.357	26760.024	32674.048	31716.468
57.5	3209.831	3181.491	3382.851	3710.994	3804.962	3864.624	5584.389	24938.833	33725.595	32990.258
60.0	2783.245	2765.347	2974.165	3351.529	3645.365	3655.806	5193.601	21236.789	33388.503	33170.736
62.5	2294.015	2305.947	2577.410	2963.724	3272.476	3306.782	4855.018	17049.988	33082.734	33469.048
65.0	1812.242	1830.140	2132.927	2529.681	2822.026	2822.026	4264.361	13031.734	32973.851	33891.158
67.5	1240.975	1240.975	1609.390	2055.366	2338.761	2328.320	3476.819	9598.169	34292.387	35317.087
68.0	1121.651	1121.651	1458.743	1955.431	2240.319	2226.895	3302.307	9020.937	34475.849	35443.869
70.0	893.443	896.426	1005.309	1549.728	1854.005	1842.073	2608.733	6953.639	32153.494	32924.629
72.5	696.557	708.490	789.034	1042.598	1431.895	1455.760	1836.107	4386.669	22861.094	22849.162
75.0	522.045	532.486	602.589	733.846	1108.227	1218.602	1208.161	2201.538	9185.008	8673.404
77.5	363.940	380.347	437.026	530.994	857.645	1093.311	711.473	1075.413	1918.142	1903.227
80.0	241.632	255.056	295.328	346.041	630.929	790.525	435.535	586.182	786.051	802.458
82.5	134.240	143.189	165.563	192.411	387.805	372.889	246.107	304.278	414.653	401.229
85.0	52.204	58.171	67.120	76.069	186.445	129.765	96.951	113.358	155.122	150.647
87.5	5.966	7.458	8.949	8.949	28.340	10.441	8.949	8.949	14.916	14.916
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	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715	8176.715
2.5	8422.822	8276.650	8112.579	7806.809	7509.990	7223.611	6943.198	6740.346	6583.733	6467.391
5.0	8622.691	8260.243	7885.862	7172.898	6486.781	5860.327	5311.434	4889.324	4576.097	4359.821
7.5	8819.577	8266.209	7685.993	6565.834	5536.660	4646.200	3939.202	3457.429	3151.660	2990.572
10.0	9038.835	8279.633	7498.057	5999.042	4679.014	3663.264	3054.709	2777.279	2668.395	2614.699
12.5	9298.366	8328.854	7350.393	5487.438	3960.084	3027.861	2699.718	2595.309	2540.122	2502.833
15.0	9595.186	8431.772	7248.967	5023.564	3387.326	2726.566	2575.919	2505.816	2459.577	2432.729
17.5	9975.533	8603.301	7198.254	4596.979	2995.046	2598.292	2495.375	2443.170	2408.865	2379.033
20.0	10457.306	8838.967	7195.271	4233.039	2778.771	2526.698	2437.204	2401.407	2377.542	2343.236
22.5	10967.419	9129.820	7238.526	3922.795	2665.412	2474.493	2395.441	2370.084	2361.135	2320.863
25.0	11520.786	9465.421	7319.070	3663.264	2598.292	2425.272	2362.626	2343.236	2341.744	2285.065

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CANDELA TABULATION - (Cont.)

27.5	12126.3589838.310	7426.462	3452.954	2541.613	2377.542	2323.846	2314.896	2301.472	2237.336
30.0	12751.32110215.6747557.719	3282.917	2487.917	2325.337	2274.624	2270.150	2241.810	2179.165	
32.5	13334.52010590.0557684.502	3148.677	2438.696	2271.641	2216.454	2204.521	2155.300	2065.806	
35.0	13838.66610888.3667796.368	3036.810	2389.474	2216.454	2150.825	2103.095	2003.161	1904.718	
37.5	14298.06511192.6447912.710	2936.876	2323.846	2156.791	2049.399	1959.906	1856.988	1818.208	
40.0	14836.51711580.4498105.121	2866.773	2255.234	2070.281	1918.142	1800.309	1770.478	1748.105	
42.5	15285.47611945.8808318.413	2825.009	2189.606	1955.431	1797.326	1680.985	1710.816	1710.816	
45.0	15786.63912363.5168570.487	2804.127	2118.011	1842.073	1661.595	1607.898	1654.137	1689.934	
47.5	16430.99212946.7158965.749	2820.534	2038.958	1752.579	1552.711	1543.761	1604.915	1648.170	
50.0	18140.31614529.25710106.7903006.979	1976.313	1673.527	1522.880	1491.557	1558.677	1618.339		
52.5	21111.49817275.21312450.0263645.365	1903.227	1561.660	1516.913	1433.386	1533.321	1615.356		
55.0	23639.68719305.22214329.3884004.831	1760.037	1437.861	1378.199	1376.707	1525.863	1628.780		
57.5	23535.27819011.38614330.8803705.028	1569.118	1314.062	1278.264	1340.910	1522.880	1616.848		
60.0	22880.48418249.20013619.4073090.506	1391.623	1217.111	1209.653	1312.570	1491.557	1554.202		
62.5	22409.15217528.77813022.7842605.750	1239.484	1133.583	1144.024	1275.281	1416.979	1454.268		
65.0	22306.23517045.51312734.9142241.810	1106.735	1044.090	1076.904	1209.653	1303.621	1388.640		
67.5	22908.82416623.40312357.5501876.379	984.428	947.139	1009.784	1120.159	1205.178	1686.951		
68.0	22932.68916442.92412245.6831789.868	962.054	927.748	993.377	1099.278	1197.720	1801.801		
70.0	21126.41314165.31710655.6831500.506	875.544	853.171	932.223	1011.276	1293.180	2268.658		
72.5	15728.4699389.351	6955.130	1032.157	774.118	768.152	842.730	894.934	1694.409	2699.718
75.0	5703.714	3884.014	2945.825	717.439	665.234	692.082	745.779	780.084	2064.315
77.5	1360.300	1056.022	784.559	490.722	522.045	583.199	639.878	693.574	2030.009
80.0	618.996	522.045	422.111	332.617	380.347	463.874	513.096	578.724	1499.015
82.5	343.058	311.735	261.022	204.343	255.056	325.159	360.957	398.246	866.595
85.0	128.274	117.833	108.884	90.985	129.765	164.071	183.462	198.377	423.602
87.5	10.441	7.458	10.441	10.441	25.356	35.797	43.255	53.696	129.765
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

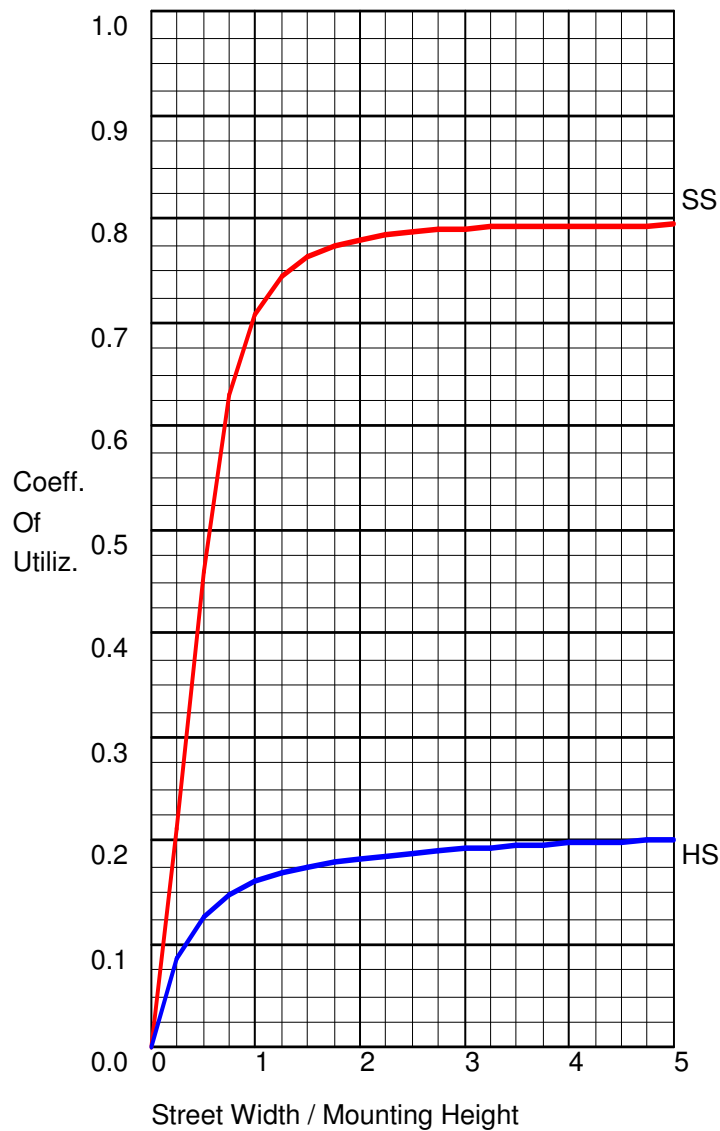
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	8176.715	8176.715
2.5	6409.220	6474.849
5.0	4247.954	4294.193
7.5	2929.418	2948.808
10.0	2596.801	2587.851
12.5	2489.409	2483.442
15.0	2416.322	2413.339
17.5	2362.626	2358.152
20.0	2322.354	2317.880
22.5	2291.032	2283.574
25.0	2244.793	2238.827
27.5	2191.097	2192.589
30.0	2118.011	2112.045
32.5	1976.313	1967.364
35.0	1861.463	1862.955
37.5	1804.784	1821.191
40.0	1737.664	1751.088
42.5	1667.561	1673.527
45.0	1648.170	1619.831
47.5	1606.407	1591.491
50.0	1578.067	1595.966
52.5	1601.932	1625.797
55.0	1633.255	1657.120
57.5	1631.763	1654.137
60.0	1579.559	1598.949

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-740-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	1494.540	1519.897
65.0	1503.489	1561.660
67.5	1871.904	1955.431
68.0	1958.414	2041.942
70.0	2234.352	2316.388
72.5	2392.457	2455.103
75.0	2076.247	2077.739
77.5	1475.150	1419.962
80.0	975.478	914.324
82.5	587.673	556.351
85.0	205.835	164.071
87.5	31.323	8.949
90.0	0.000	0.000

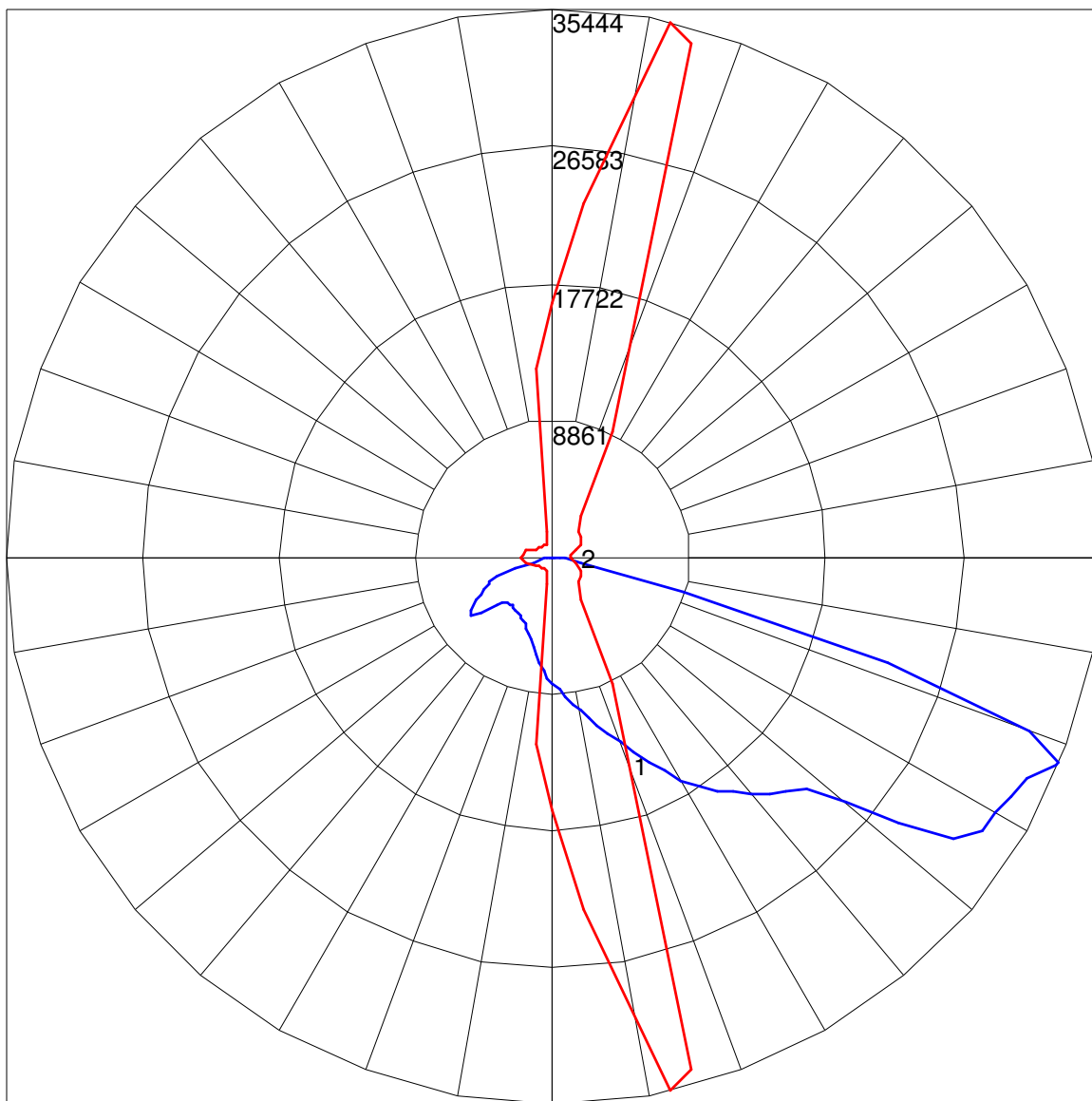
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

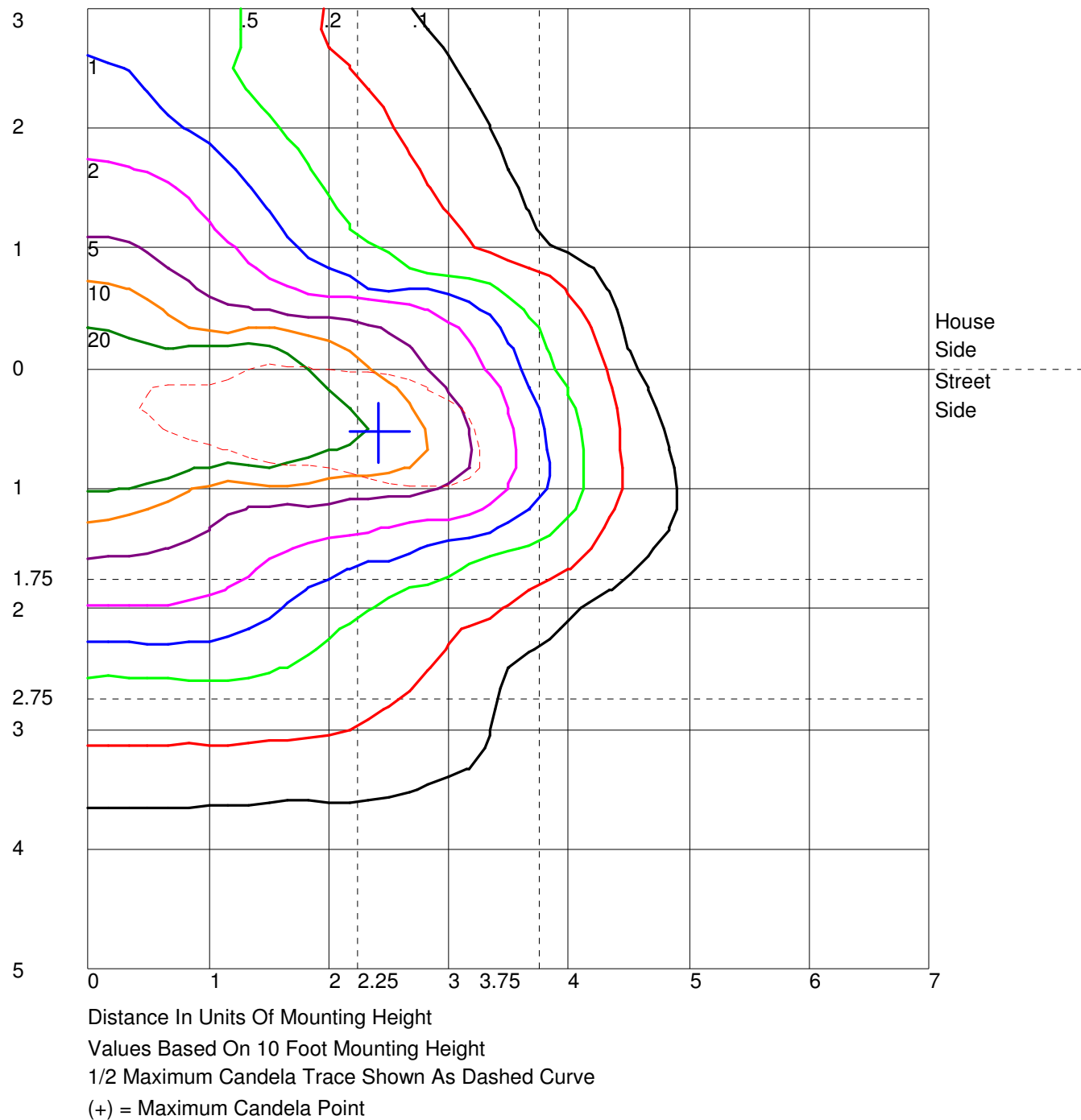
	Lumens	Percent Of Luminaire
Downward Street Side	28117.9	79.6
Downward House Side	7214.4	20.4
Downward Total	35332.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	35332.3	100.0

POLAR GRAPH

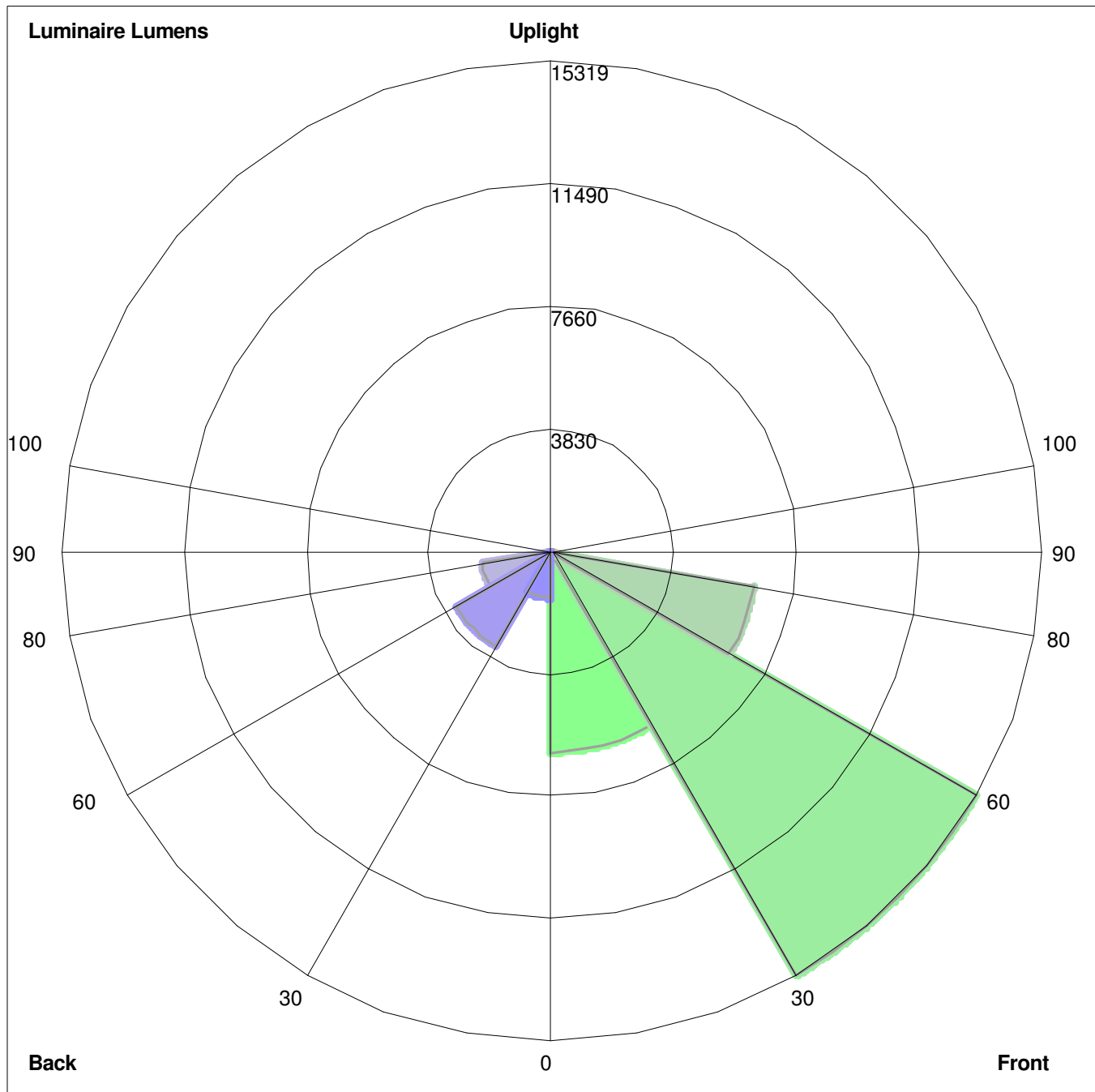


Maximum Candela = 35443.869 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=6283.7, Medium=15319.5, High=6423.4, Very High=91.3
Back: Low=1459.5, Medium=3415.1, High=2195.4, Very High=144.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3