



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] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-740-T2-F-S-xxx-DIM-UNV
[LUMINAIRE]VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE II
[MORE] OPTICS, CLEAR LENS, (2) LED ARRAYS ,WITH
[MORE] (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 I
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	32148
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	32249.79
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	32249.79
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	1363.929 (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)	5717.5	N.A.	17.8
FM - Front-Medium (30-60)	13938.9	N.A.	43.4
FH - Front-High (60-80)	5844.5	N.A.	18.2
FVH - Front-Very High (80-90)	83.1	N.A.	0.3
BL - Back-Low (0-30)	1328.0	N.A.	4.1
BM - Back-Medium (30-60)	3107.4	N.A.	9.7
BH - Back-High (60-80)	1997.6	N.A.	6.2
BVH - Back-Very High (80-90)	131.4	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	32148.4	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	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858
2.5	8901.501	8840.430	8797.001	8735.930	8646.358	8463.144	8330.144	8125.215	7897.215	7833.430
5.0	10847.644	10861.216	10747.216	10576.216	10308.859	99896.287	9501.358	8991.073	8431.930	8281.287
7.5	12785.645	12801.930	12635.002	12350.002	11929.287	11292.787	10664.430	9855.573	8977.501	8749.501
10.0	14437.288	14414.216	14231.002	13906.645	13423.502	12639.073	11815.287	10716.001	9517.644	9212.287
12.5	15171.502	15132.145	15048.002	14893.288	14589.288	13860.502	12929.502	11600.859	10084.930	9696.787
15.0	15095.502	15071.074	15068.359	15094.145	15102.288	14806.431	13975.859	12530.502	10721.430	10246.430
17.5	15046.645	15027.645	15027.645	15043.931	15138.931	15225.788	14848.502	13499.502	11444.787	10878.859
20.0	15037.145	15037.145	15091.431	15111.788	15145.716	15314.002	15428.002	14530.931	12272.645	11618.502
22.5	14737.216	14773.859	14951.645	15124.002	15225.788	15338.431	15727.931	15440.216	13171.073	12439.573
25.0	13933.788	13973.145	14293.431	14805.073	15213.574	15447.002	15894.859	16269.431	14157.716	13343.430
27.5	12850.787	12901.002	13244.359	13973.145	14910.931	15518.931	16075.359	16926.288	15159.288	14263.573
30.0	11986.287	12020.216	12364.930	12990.573	14118.359	15387.288	16281.645	17413.502	16144.574	15201.359
32.5	11436.644	11484.144	11781.359	12301.145	13240.288	15011.359	16508.288	17807.074	17091.860	16097.074
35.0	10899.216	10945.359	11281.930	11789.502	12569.859	14453.573	16715.931	18121.931	17877.645	16844.859
37.5	10059.144	10140.573	10549.073	11144.859	11991.716	13950.073	16996.859	18390.645	18511.431	17511.217
40.0	8794.287	8877.073	9414.501	10241.001	11210.002	13249.788	17467.788	18686.503	19112.645	18223.717
42.5	7233.572	7164.358	7754.715	8784.787	10141.930	12231.930	17596.717	19597.146	19669.074	18879.217
45.0	5580.572	5533.072	5937.501	6795.215	8469.930	11048.502	16829.931	21265.074	20163.074	19457.360
47.5	4497.572	4448.715	4650.929	5066.215	6298.501	9323.573	15345.216	22581.503	21239.289	20330.003
50.0	3972.358	3935.715	3996.786	4104.001	4604.786	6506.144	13471.002	23291.289	23375.432	22506.860
52.5	3730.786	3696.858	3706.358	3648.001	3840.715	4394.429	10307.501	24051.289	26708.575	25217.146
55.0	3346.715	3311.429	3468.858	3504.143	3542.143	3737.572	6613.358	24348.503	29729.576	28858.290
57.5	2920.572	2894.786	3078.000	3376.572	3462.072	3516.358	5081.144	22691.432	30686.361	30017.290
60.0	2532.429	2516.143	2706.143	3049.500	3316.858	3326.358	4725.572	19323.003	30379.647	30181.504
62.5	2087.286	2098.143	2345.143	2696.643	2977.572	3008.786	4417.501	15513.502	30101.433	30452.933
65.0	1648.929	1665.215	1940.715	2301.715	2567.715	2567.715	3880.072	11857.359	30002.361	30837.004
67.5	1129.143	1129.143	1464.357	1870.143	2128.000	2118.500	3163.500	8733.215	31202.076	32134.433
68.0	1020.572	1020.572	1327.286	1779.215	2038.429	2026.215	3004.715	8208.001	31369.004	32249.790
70.0	812.929	815.643	914.714	1410.072	1686.929	1676.072	2373.643	6327.001	29255.933	29957.576
72.5	633.786	644.643	717.929	948.643	1302.857	1324.572	1670.643	3991.358	20800.931	20790.074
75.0	475.000	484.500	548.286	667.714	1008.357	1108.786	1099.286	2003.143	8357.287	7891.787
77.5	331.143	346.071	397.643	483.143	780.357	994.786	647.357	978.500	1745.286	1731.715
80.0	219.857	232.071	268.714	314.857	574.072	719.286	396.286	533.357	715.214	730.143
82.5	122.143	130.286	150.643	175.071	352.857	339.286	223.929	276.857	377.286	365.071
85.0	47.500	52.929	61.071	69.214	169.643	118.071	88.214	103.143	141.143	137.071
87.5	5.429	6.786	8.143	8.143	25.786	9.500	8.143	8.143	13.571	13.571
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	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858	7439.858
2.5	7663.787	7530.787	7381.501	7103.287	6833.215	6572.644	6317.501	6132.929	5990.429	5884.572
5.0	7845.644	7515.858	7175.215	6526.501	5902.215	5332.215	4832.786	4448.715	4163.715	3966.929
7.5	8024.787	7521.287	6993.358	5974.144	5037.715	4227.501	3584.215	3145.858	2867.643	2721.072
10.0	8224.287	7533.501	6822.358	5458.429	4257.358	3333.143	2779.429	2527.000	2427.929	2379.072
12.5	8460.430	7578.287	6688.001	4992.929	3603.215	2755.000	2456.429	2361.429	2311.215	2277.286
15.0	8730.501	7671.930	6595.715	4570.858	3082.072	2480.857	2343.786	2280.000	2237.929	2213.500
17.5	9076.573	7828.001	6549.572	4182.715	2725.143	2364.143	2270.500	2223.000	2191.786	2164.643
20.0	9514.930	8042.430	6546.858	3851.572	2528.357	2299.000	2217.572	2185.000	2163.286	2132.072
22.5	9979.073	8307.073	6586.215	3569.286	2425.215	2251.500	2179.572	2156.500	2148.357	2111.715
25.0	10482.573	8612.430	6659.501	3333.143	2364.143	2206.715	2149.715	2132.072	2130.715	2079.143

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

CANDELA TABULATION - (Cont.)

27.5	11033.5738951.716	6757.215	3141.786	2312.572	2163.286	2114.429	2106.286	2094.072	2035.715
30.0	11602.2169295.073	6876.644	2987.072	2263.715	2115.786	2069.643	2065.572	2039.786	1982.786
32.5	12132.8599635.716	6992.001	2864.929	2218.929	2066.929	2016.715	2005.857	1961.072	1879.643
35.0	12591.5739907.144	7093.787	2763.143	2174.143	2016.715	1957.000	1913.572	1822.643	1733.072
37.5	13009.57310184.001	7199.644	2672.215	2114.429	1962.429	1864.715	1783.286	1689.643	1654.357
40.0	13499.50210536.859	7374.715	2608.429	2052.000	1883.715	1745.286	1638.072	1610.929	1590.572
42.5	13908.00210869.359	7568.787	2570.429	1992.286	1779.215	1635.357	1529.500	1556.643	1556.643
45.0	14364.00211249.359	7798.144	2551.429	1927.143	1676.072	1511.857	1463.000	1505.072	1537.643
47.5	14950.28811780.002	8157.787	2566.357	1855.215	1594.643	1412.786	1404.643	1460.286	1499.643
50.0	16505.57413219.930	9196.001	2736.000	1798.215	1522.714	1385.643	1357.143	1418.214	1472.500
52.5	19209.00315718.431	11328.073	3316.858	1731.715	1420.929	1380.214	1304.214	1395.143	1469.786
55.0	21509.36017565.502	13038.073	3643.929	1601.429	1308.286	1254.000	1252.643	1388.357	1482.000
57.5	21414.36017298.145	13039.430	3371.143	1427.714	1195.643	1163.072	1220.072	1385.643	1471.143
60.0	20818.57416604.645	12392.073	2812.000	1266.214	1107.429	1100.643	1194.286	1357.143	1414.143
62.5	20389.71715949.145	11849.216	2370.929	1127.786	1031.429	1040.929	1160.357	1289.286	1323.214
65.0	20296.07415509.431	11587.287	2039.786	1007.000	950.000	979.857	1100.643	1186.143	1263.500
67.5	20844.36015125.359	11243.930	1707.286	895.714	861.786	918.786	1019.214	1096.572	1534.929
68.0	20866.07414961.145	11142.144	1628.572	875.357	844.143	903.857	1000.214	1089.786	1639.429
70.0	19222.57412888.787	9695.430	1365.286	796.643	776.286	848.214	920.143	1176.643	2064.215
72.5	14311.0738543.215	6328.358	939.143	704.357	698.929	766.786	814.286	1541.714	2456.429
75.0	5189.715	3534.000	2680.358	652.786	605.286	629.714	678.572	709.786	1878.286
77.5	1237.714	960.857	713.857	446.500	475.000	530.643	582.214	631.072	1847.072
80.0	563.214	475.000	384.071	302.643	346.071	422.071	466.857	526.572	1363.929
82.5	312.143	283.643	237.500	185.929	232.071	295.857	328.429	362.357	788.500
85.0	116.714	107.214	99.071	82.786	118.071	149.286	166.929	180.500	385.429
87.5	9.500	6.786	9.500	9.500	23.071	32.571	39.357	48.857	118.071
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

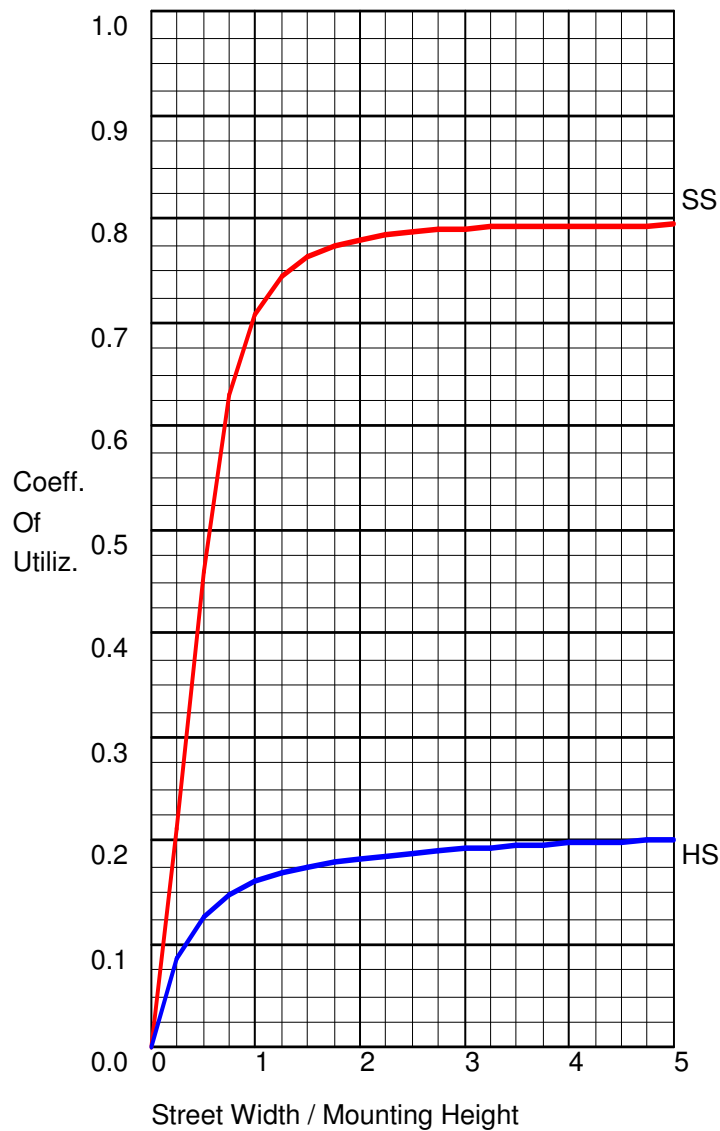
	<u>175.0</u>	<u>180.0</u>
0.0	7439.858	7439.858
2.5	5831.644	5891.358
5.0	3865.143	3907.215
7.5	2665.429	2683.072
10.0	2362.786	2354.643
12.5	2265.072	2259.643
15.0	2198.572	2195.857
17.5	2149.715	2145.643
20.0	2113.072	2109.000
22.5	2084.572	2077.786
25.0	2042.500	2037.072
27.5	1993.643	1995.000
30.0	1927.143	1921.715
32.5	1798.215	1790.072
35.0	1693.715	1695.072
37.5	1642.143	1657.072
40.0	1581.072	1593.286
42.5	1517.286	1522.714
45.0	1499.643	1473.857
47.5	1461.643	1448.072
50.0	1435.857	1452.143
52.5	1457.572	1479.286
55.0	1486.072	1507.786
57.5	1484.714	1505.072
60.0	1437.214	1454.857

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CANDELA TABULATION - (Cont.)

62.5	1359.857	1382.929
65.0	1368.000	1420.929
67.5	1703.215	1779.215
68.0	1781.929	1857.929
70.0	2033.000	2107.643
72.5	2176.857	2233.857
75.0	1889.143	1890.500
77.5	1342.214	1292.000
80.0	887.572	831.929
82.5	534.714	506.214
85.0	187.286	149.286
87.5	28.500	8.143
90.0	0.000	0.000

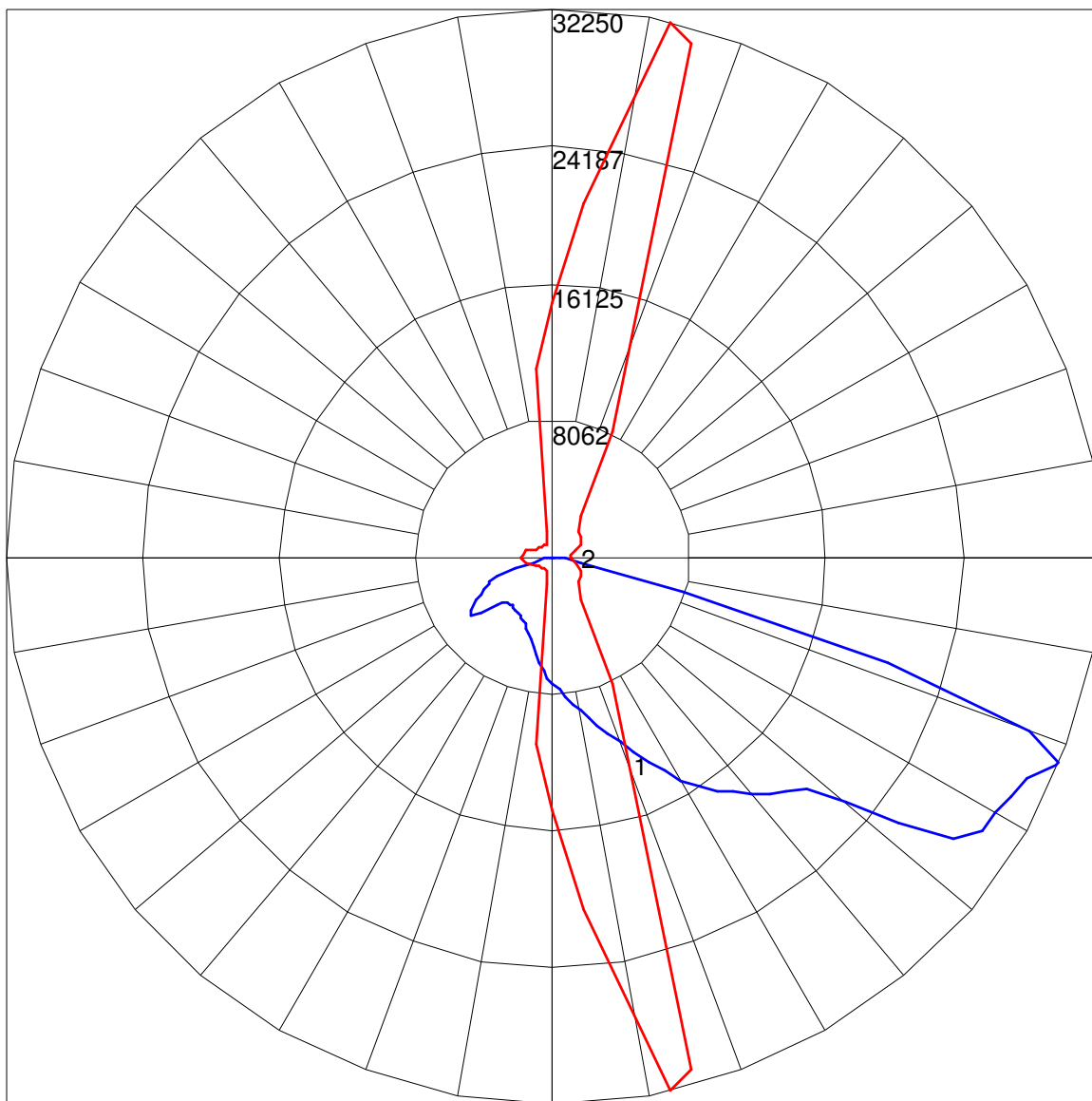
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

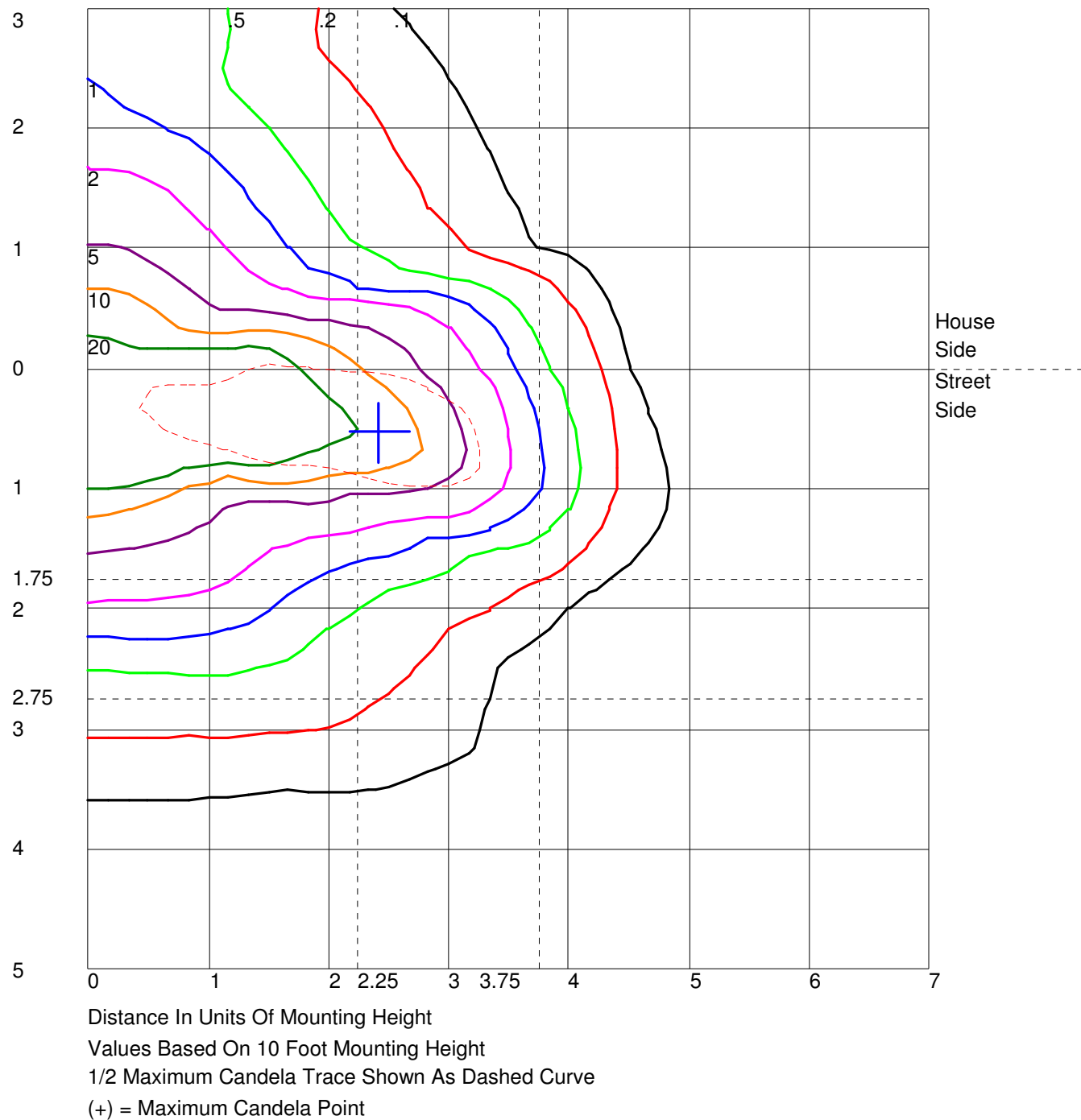
	Lumens	Percent Of Luminaire
Downward Street Side	25584.0	79.6
Downward House Side	6564.3	20.4
Downward Total	32148.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	32148.3	100.0

POLAR GRAPH

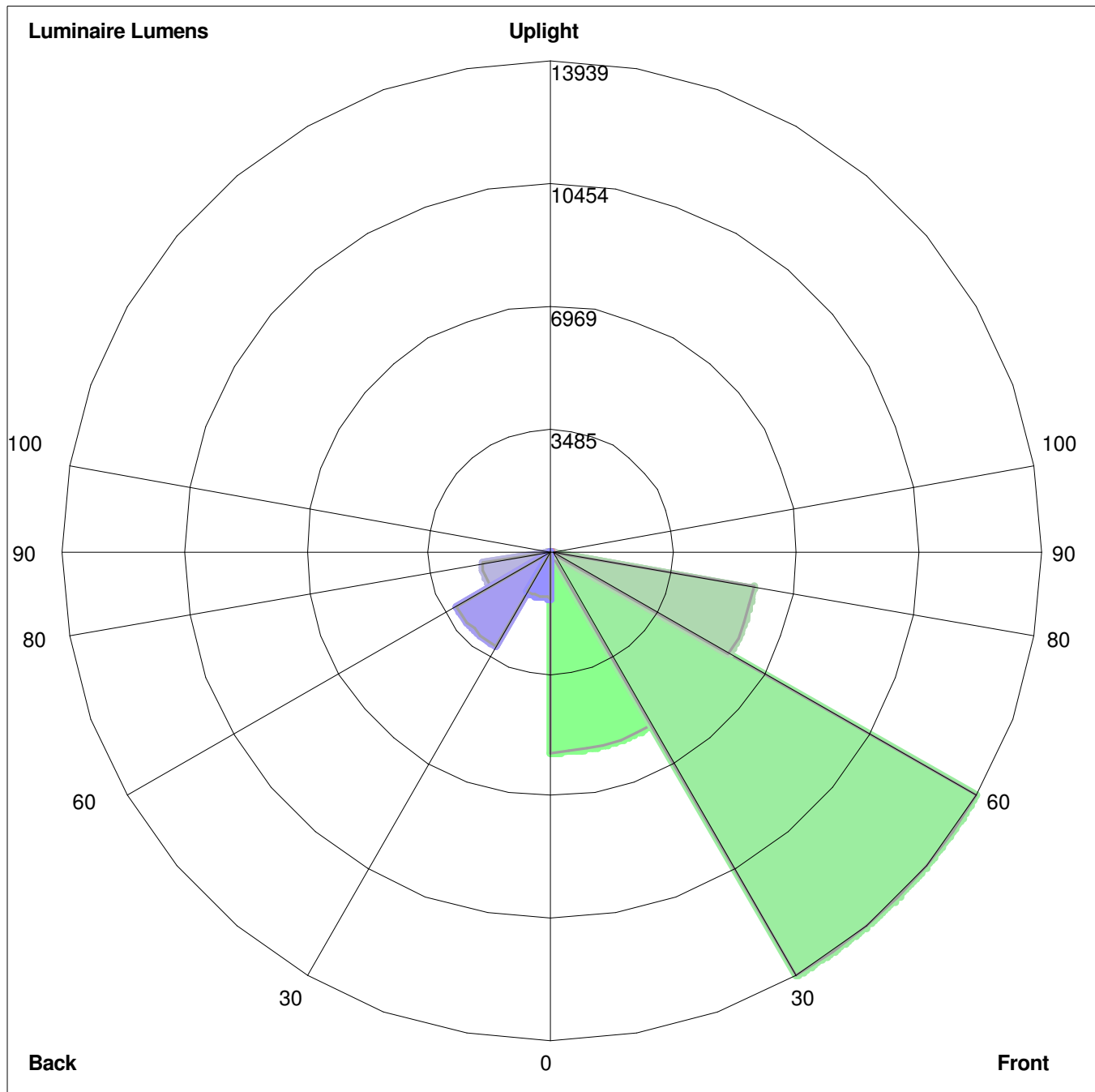


Maximum Candela = 32249.79 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=5717.5, Medium=13938.9, High=5844.5, Very High=83.1
Back: Low= 1328.0, Medium=3107.4, High=1997.6, Very High=131.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3