



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L220-750-T2-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011757
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L220-750-T2-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE II
[MORE] OPTICS, CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[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	23868
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	182
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24203.05
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	24203.05
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	924.326 (3.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L220-750-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4314.1	N.A.	18.1
FM - Front-Medium (30-60)	10452.5	N.A.	43.8
FH - Front-High (60-80)	4226.4	N.A.	17.7
FVH - Front-Very High (80-90)	61.7	N.A.	0.3
BL - Back-Low (0-30)	965.3	N.A.	4.0
BM - Back-Medium (30-60)	2298.4	N.A.	9.6
BH - Back-High (60-80)	1465.9	N.A.	6.1
BVH - Back-Very High (80-90)	83.5	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	23867.8	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	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210
2.5	6531.738	6407.575	6413.846	6284.666	6214.432	6092.777	5954.818	5771.709	5606.158	5544.703
5.0	7991.597	7908.821	7868.688	7647.953	7457.319	7162.588	6827.723	6425.133	6012.510	5883.330
7.5	9500.368	9425.118	9332.309	9016.257	8676.376	8208.569	7681.816	7069.779	6402.558	6233.245
10.0	10879.959	10782.134	10661.733	10313.073	99886.654	9280.888	8583.567	7700.628	6808.911	6575.634
12.5	11732.798	11690.156	11588.568	11333.970	10931.381	10284.227	9465.251	8350.290	7231.567	6943.107
15.0	11767.915	11767.915	11760.390	11781.711	11638.735	11152.115	10316.835	9099.032	7689.341	7343.189
17.5	11581.043	11574.772	11568.501	11666.326	11806.794	11747.848	11110.727	9831.470	8206.060	7797.200
20.0	11619.922	11618.668	11623.685	11633.718	11708.968	11908.382	11779.202	10629.125	8801.793	8315.174
22.5	11475.692	11489.488	11581.043	11702.698	11741.577	11846.928	12189.317	11435.558	9480.301	8910.906
25.0	10888.739	10916.330	11137.065	11545.926	11777.948	11868.249	12338.564	12226.942	10213.993	9570.602
27.5	9910.483	9943.091	10338.156	10947.685	11602.364	11939.736	12386.222	12899.180	10970.260	10256.635
30.0	9081.474	9121.607	9402.542	10029.629	11025.444	11910.890	12490.319	13420.916	11693.918	10941.414
32.5	8598.617	8638.750	8893.348	9328.546	10163.826	11639.989	12640.820	13752.018	12437.643	11601.109
35.0	8238.669	8267.515	8513.333	8918.431	9487.826	11098.186	12790.066	13930.111	13092.322	12188.063
37.5	7704.391	7729.474	8034.239	8500.791	9040.086	10517.503	12895.417	14035.461	13667.988	12722.341
40.0	6775.048	6807.656	7195.196	7810.996	8509.571	9953.125	13167.573	14135.795	14207.283	13301.769
42.5	5445.623	5473.215	5967.360	6674.714	7723.203	9196.858	13507.454	14488.218	14702.682	13818.489
45.0	4209.008	4220.295	4531.331	5083.167	6441.438	8297.615	13050.935	15670.904	15105.272	14342.734
47.5	3393.795	3391.286	3536.771	3770.047	4604.073	6997.037	11767.915	17041.716	15672.158	14951.008
50.0	3008.763	2994.967	3015.034	3068.964	3390.032	4619.123	10210.230	17761.612	17328.922	16501.167
52.5	2848.229	2835.687	2789.283	2706.507	2863.279	3175.569	7739.508	18541.708	19962.687	19057.174
55.0	2558.515	2568.548	2636.274	2584.853	2589.869	2735.353	4664.273	18874.064	22280.401	21451.392
57.5	2204.838	2214.871	2326.493	2525.906	2522.144	2539.702	3701.067	17524.573	22980.230	22324.297
60.0	1915.124	1928.920	2040.541	2278.834	2438.114	2395.472	3476.570	14938.466	22823.458	22552.557
62.5	1581.513	1605.343	1762.114	2020.474	2175.992	2167.213	3185.602	12068.916	22603.978	22760.750
65.0	1251.666	1278.003	1456.096	1730.760	1885.024	1847.398	2740.370	8919.685	22523.711	23047.955
67.5	885.447	908.022	1108.690	1403.421	1561.447	1517.551	2182.263	6190.603	23411.666	24149.120
68.0	795.146	811.451	1025.914	1333.187	1496.230	1451.079	2061.862	5754.150	23460.579	24203.050
70.0	644.645	652.170	716.133	1058.523	1240.378	1202.753	1602.834	4229.075	21352.312	21953.062
72.5	506.686	512.957	564.378	748.742	974.493	971.985	1128.757	2572.311	14359.038	14710.207
75.0	378.761	386.286	432.690	525.499	773.825	842.805	751.250	1326.916	5027.984	5006.663
77.5	265.885	275.918	319.814	385.031	604.512	780.096	459.028	701.083	1064.794	1098.656
80.0	176.839	185.618	218.226	248.326	454.011	579.428	273.410	385.031	490.382	501.670
82.5	106.605	106.605	125.417	141.722	282.189	257.106	145.484	195.651	253.343	244.564
85.0	45.150	45.150	52.675	60.200	139.213	89.046	61.455	70.234	95.317	92.809
87.5	8.779	8.779	10.033	10.033	26.338	11.288	7.525	10.033	11.288	11.288
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	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210	5246.210
2.5	5381.661	5275.056	5172.214	4936.429	4721.965	4491.197	4377.067	4216.533	4045.965	4042.203
5.0	5513.349	5265.022	5014.188	4482.418	3983.257	3517.958	3194.381	2909.684	2688.949	2618.715
7.5	5656.325	5270.039	4878.737	4045.965	3341.120	2725.320	2387.947	2165.958	2038.033	1995.391
10.0	5810.588	5293.868	4760.844	3652.155	2786.775	2241.209	2015.458	1915.124	1861.194	1834.857
12.5	5986.172	5335.256	4663.019	3299.732	2399.235	2002.916	1881.261	1818.552	1779.673	1760.860
15.0	6194.365	5414.269	4594.039	2988.697	2135.858	1891.294	1806.011	1758.352	1728.252	1711.948
17.5	6442.692	5522.128	4550.143	2737.862	1995.391	1827.332	1754.589	1720.727	1695.643	1676.831
20.0	6741.185	5672.629	4538.856	2540.957	1925.157	1785.944	1720.727	1695.643	1678.085	1651.747
22.5	7086.083	5869.534	4551.397	2390.456	1882.515	1753.335	1698.152	1678.085	1668.051	1637.951
25.0	7478.640	6087.761	4595.294	2275.072	1843.636	1723.235	1675.576	1661.781	1656.764	1604.089

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CANDELA TABULATION - (Cont.)

27.5	7886.246	6333.579	4660.511	2188.534	1803.502	1688.118	1649.239	1641.714	1621.647	1563.955
30.0	8308.903	6604.480	4743.286	2125.825	1767.131	1653.001	1615.376	1609.105	1580.259	1527.584
32.5	8708.984	6861.586	4837.349	2080.675	1732.014	1614.122	1575.243	1561.447	1512.534	1389.625
35.0	9041.340	7074.796	4920.125	2039.287	1696.897	1571.480	1531.346	1471.146	1367.050	1275.495
37.5	9316.004	7285.497	5005.408	1997.899	1647.985	1528.838	1438.538	1343.220	1257.937	1226.582
40.0	9667.173	7553.890	5134.588	1967.799	1597.818	1461.113	1324.408	1210.278	1207.770	1181.432
42.5	9979.462	7799.708	5297.631	1948.986	1545.142	1364.541	1242.886	1142.553	1160.111	1171.399
45.0	10328.123	8100.710	5499.553	1937.699	1488.705	1280.512	1113.707	1091.131	1127.502	1146.315
47.5	10784.642	8512.079	5806.826	1951.495	1428.504	1226.582	1067.302	1052.252	1091.131	1118.723
50.0	12081.458	9698.527	6689.764	2080.675	1380.846	1183.940	1061.031	1018.389	1063.540	1107.436
52.5	14179.691	11545.926	8261.244	2458.181	1315.629	1073.573	1076.081	973.239	1052.252	1117.469
55.0	15741.138	12970.667	9564.331	2628.749	1190.211	963.206	946.901	941.885	1057.269	1135.027
57.5	15408.782	12785.050	9467.759	2367.881	1058.523	885.447	875.413	923.072	1062.285	1127.502
60.0	14875.758	12314.734	8981.140	1938.953	934.360	817.721	825.246	910.530	1039.710	1079.844
62.5	14386.630	11834.386	8627.463	1616.630	823.992	763.792	781.350	884.193	980.764	1007.102
65.0	14144.574	11538.401	8458.149	1377.083	724.913	701.083	736.200	835.280	900.497	990.797
67.5	14207.283	11202.282	8208.569	1131.265	638.375	632.104	687.287	768.809	835.280	1316.883
68.0	14123.253	11024.189	8110.743	1072.319	623.324	618.308	676.000	753.759	842.805	1398.404
70.0	12624.515	9083.982	6871.619	872.905	565.632	565.632	628.341	691.050	994.560	1698.152
72.5	9073.949	5785.505	4404.659	605.766	492.890	507.940	561.870	607.020	1319.391	1936.445
75.0	2933.513	2119.554	1917.632	425.165	411.369	446.486	492.890	534.278	1510.025	1769.640
77.5	729.929	561.870	451.503	282.189	316.052	366.219	407.607	476.586	1389.625	1291.799
80.0	362.456	293.477	243.310	188.126	219.480	274.664	309.781	367.473	924.326	829.009
82.5	200.668	168.059	134.197	109.113	139.213	185.618	200.668	233.276	531.770	492.890
85.0	72.742	65.217	53.929	45.150	66.471	80.267	91.555	100.334	240.801	213.210
87.5	6.271	6.271	3.763	2.508	10.033	15.050	16.304	20.067	55.184	26.338
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

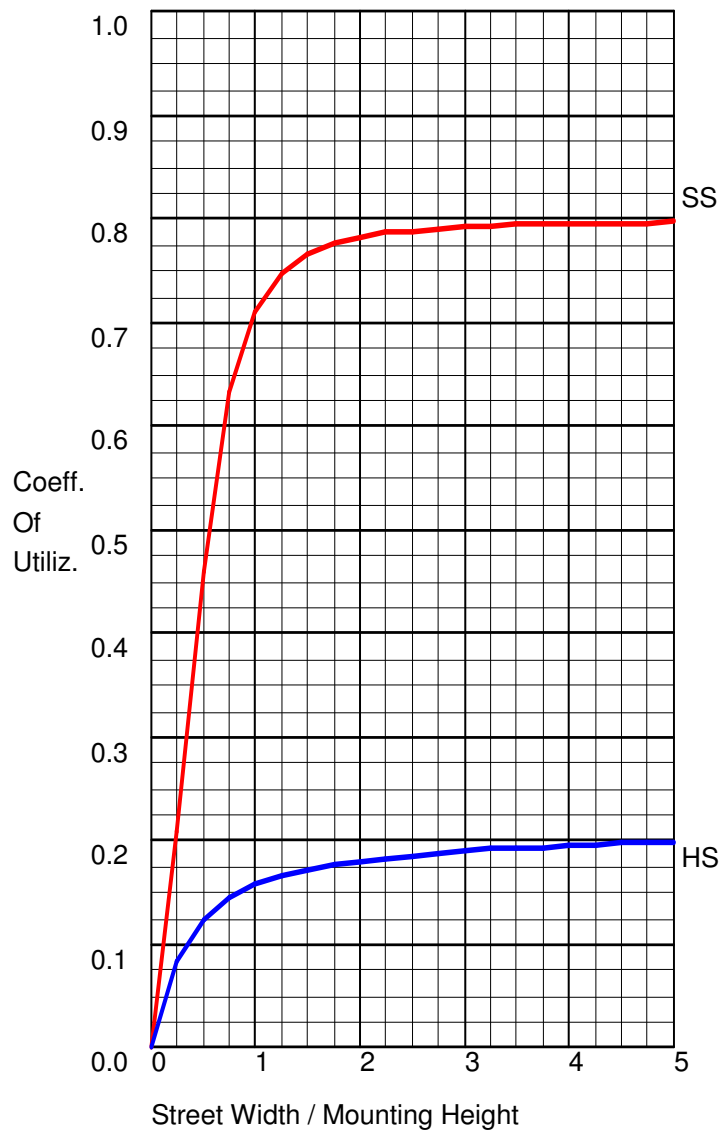
Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	5246.210	5246.210
2.5	3876.652	3950.648
5.0	2485.773	2525.906
7.5	1952.749	1960.274
10.0	1814.790	1816.044
12.5	1747.064	1747.064
15.0	1703.168	1704.422
17.5	1668.051	1669.306
20.0	1637.951	1637.951
22.5	1616.630	1616.630
25.0	1570.226	1571.480
27.5	1535.109	1536.363
30.0	1461.113	1462.367
32.5	1329.424	1325.662
35.0	1247.903	1250.411
37.5	1210.278	1216.549
40.0	1161.365	1171.399
42.5	1131.265	1130.011
45.0	1122.486	1093.640
47.5	1084.861	1084.861
50.0	1082.352	1099.911
52.5	1112.452	1132.519
55.0	1143.807	1161.365
57.5	1140.044	1155.094
60.0	1097.402	1113.707

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L220-750-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	1038.456	1059.777
65.0	1131.265	1183.940
67.5	1427.250	1478.671
68.0	1476.163	1525.076
70.0	1641.714	1694.389
72.5	1675.576	1701.914
75.0	1382.100	1437.283
77.5	949.410	954.426
80.0	610.783	603.258
82.5	368.727	377.506
85.0	86.538	96.571
87.5	5.017	0.000
90.0	0.000	0.000

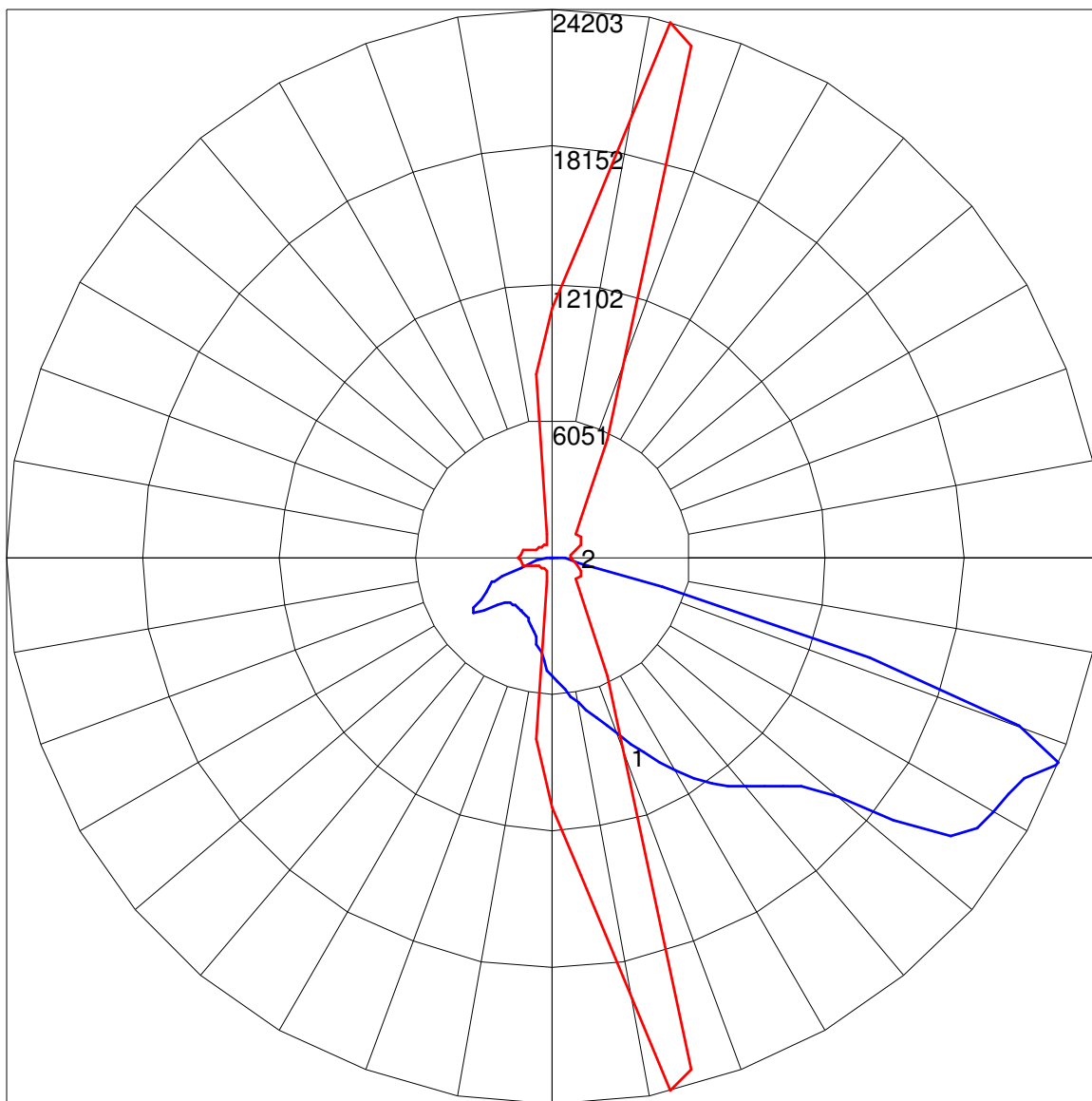
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

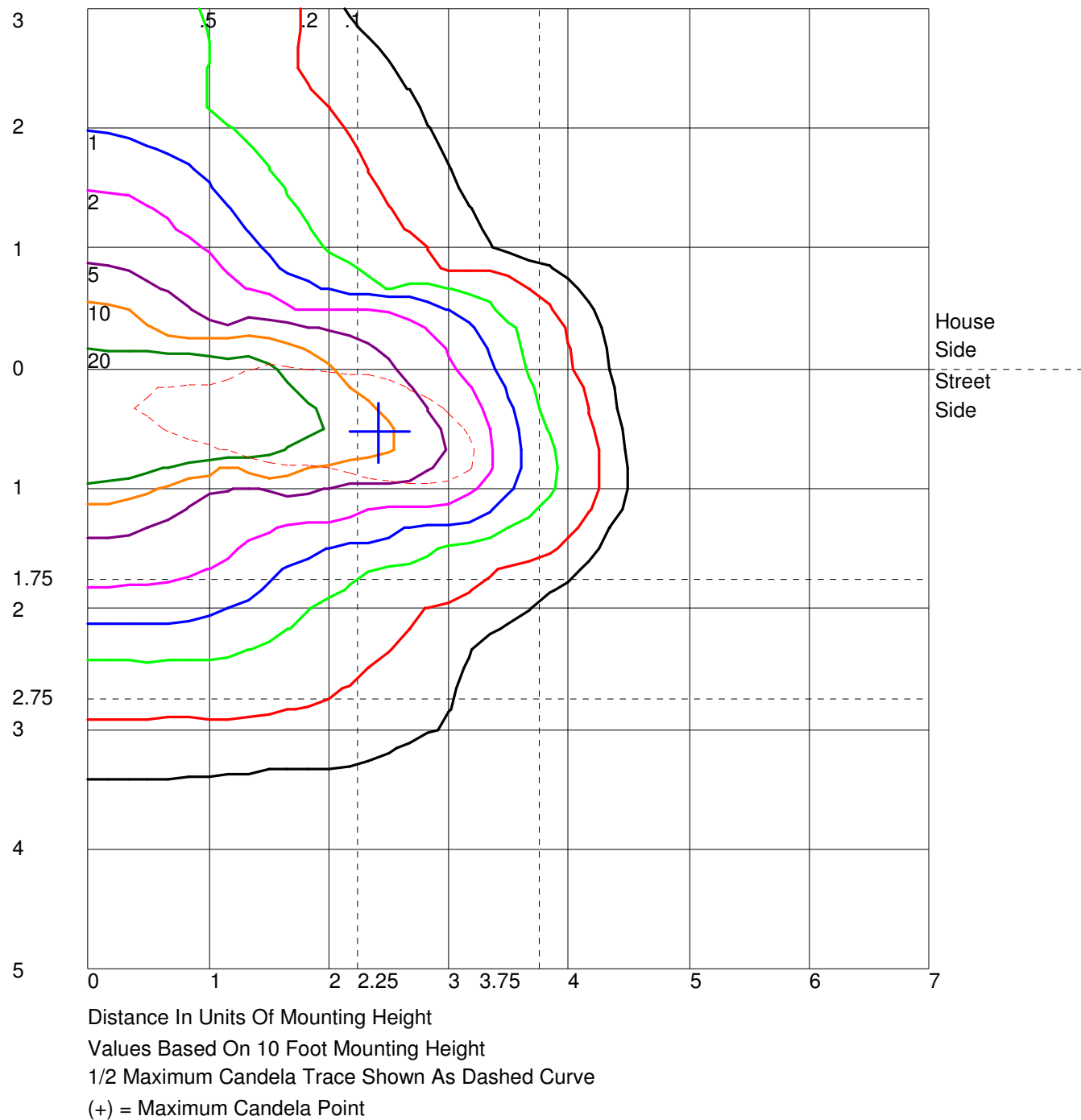
	Lumens	Percent Of Luminaire
Downward Street Side	19054.7	79.8
Downward House Side	4813.1	20.2
Downward Total	23867.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23867.8	100.0

POLAR GRAPH

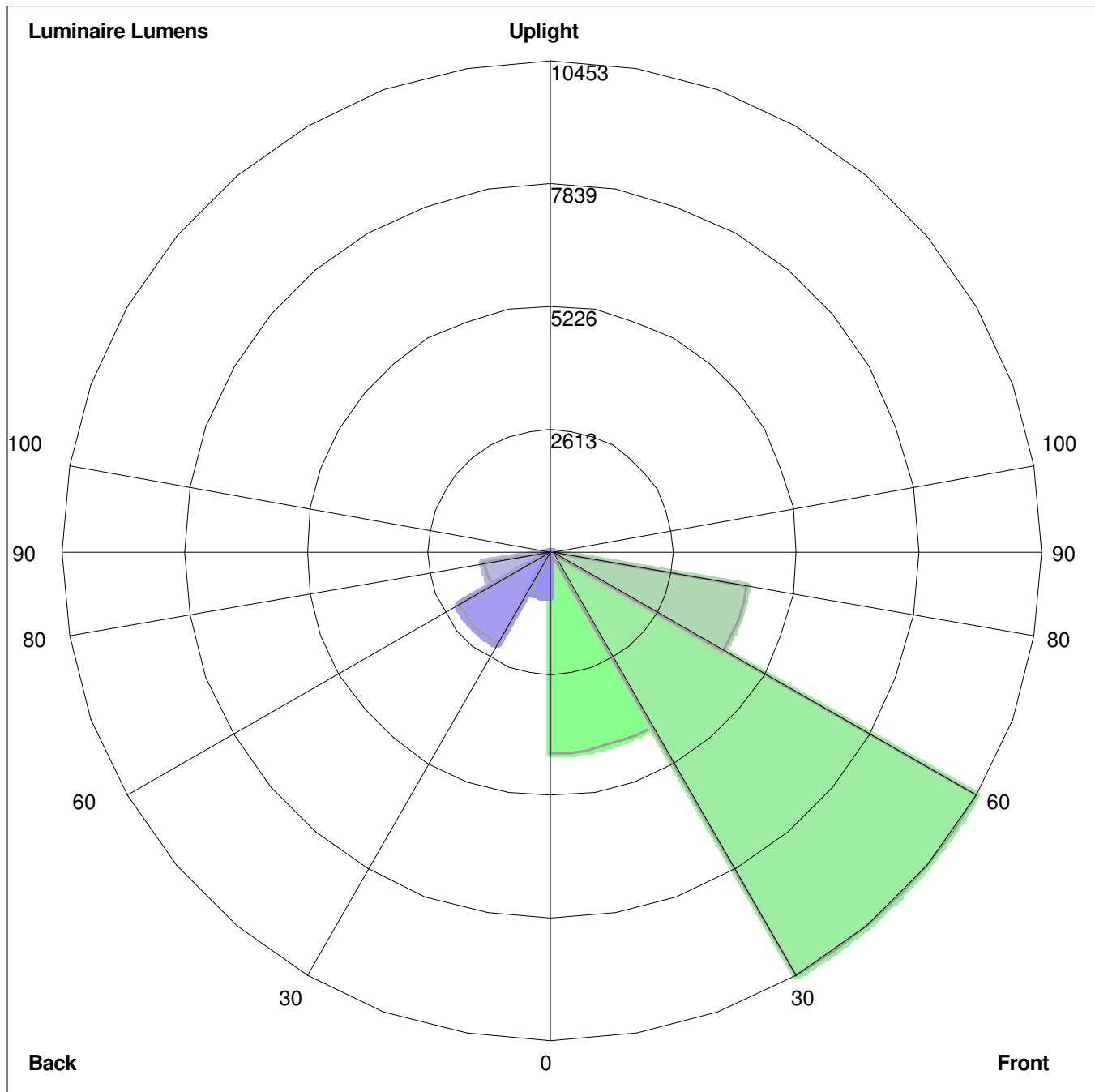


Maximum Candela = 24203.05 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=4314.1, Medium=10452.5, High=4226.4, Very High=61.7
Back: Low=965.3, Medium=2298.4, High=1465.9, Very High=83.5
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3