



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-750-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-L280-750-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] 5000K 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	27651
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27738.55
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	27738.55
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	1173.136 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-750-T2-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4917.7	N.A.	17.8
FM - Front-Medium (30-60)	11989.1	N.A.	43.4
FH - Front-High (60-80)	5027.0	N.A.	18.2
FVH - Front-Very High (80-90)	71.5	N.A.	0.3
BL - Back-Low (0-30)	1142.2	N.A.	4.1
BM - Back-Medium (30-60)	2672.7	N.A.	9.7
BH - Back-High (60-80)	1718.1	N.A.	6.2
BVH - Back-Very High (80-90)	113.0	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	27651.3	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	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139
2.5	7656.321	7603.792	7566.439	7513.910	7436.868	7279.283	7164.887	6988.625	6792.519	6737.656
5.0	9330.229	9341.902	9243.849	9096.769	8866.811	8511.951	8172.267	7733.362	7252.435	7122.865
7.5	10997.133	11011.141	10867.563	10622.430	10260.567	9713.103	9172.643	8476.932	7721.689	7525.583
10.0	12417.737	12397.893	12240.308	11961.323	11545.764	10871.065	10162.514	9217.001	8186.275	7923.632
12.5	13049.247	13015.395	12943.022	12809.950	12548.475	11921.635	11120.867	9978.080	8674.206	8340.358
15.0	12983.878	12962.866	12960.532	12982.710	12989.714	12735.243	12020.855	10777.681	9221.670	8813.115
17.5	12941.855	12925.513	12925.513	12939.520	13021.231	13095.939	12771.429	11611.133	9843.841	9357.077
20.0	12933.684	12933.684	12980.376	12997.885	13027.068	13171.813	13269.866	12498.281	10555.894	9993.255
22.5	12675.711	12707.228	12860.144	13008.391	13095.939	13192.824	13527.840	13280.372	11328.646	10699.472
25.0	11984.669	12018.521	12294.003	12734.076	13085.433	13286.208	13671.417	13993.592	12177.273	11476.893
27.5	11053.164	11096.354	11391.681	12018.521	12825.125	13348.075	13826.668	14558.565	13038.741	12268.323
30.0	10309.593	10338.776	10635.270	11173.395	12143.422	13234.847	14004.098	14977.626	13886.201	13074.927
32.5	9836.837	9877.692	10133.331	10580.407	11388.179	12911.505	14199.037	15316.143	14700.976	13845.345
35.0	9374.586	9414.274	9703.765	10140.335	10811.532	12431.745	14377.634	15586.957	15376.843	14488.527
37.5	8652.027	8722.065	9073.423	9585.867	10314.263	11998.677	14619.265	15818.082	15921.972	15061.672
40.0	7564.104	7635.309	8097.560	8808.446	9641.898	11396.350	15024.318	16072.554	16439.086	15674.504
42.5	6221.709	6162.177	6669.952	7555.933	8723.233	10520.875	15135.212	16855.812	16917.679	16238.310
45.0	4799.938	4759.082	5106.937	5844.671	7285.119	9502.989	14475.687	18290.423	17342.576	16735.580
47.5	3868.432	3826.409	4000.337	4357.531	5417.439	8019.351	13198.661	19422.704	18268.245	17486.154
50.0	3416.687	3385.170	3437.698	3529.915	3960.649	5596.036	11586.620	20033.202	20105.575	19358.503
52.5	3208.908	3179.725	3187.896	3137.702	3303.459	3779.717	8865.643	20686.890	22972.464	22118.000
55.0	2878.562	2848.212	2983.619	3013.969	3046.653	3214.744	5688.253	20942.529	25570.873	24821.467
57.5	2512.030	2489.851	2647.436	2904.242	2977.782	3024.474	4370.371	19517.256	26393.820	25818.341
60.0	2178.182	2164.174	2327.596	2622.923	2852.881	2861.052	4064.539	16620.017	26130.010	25959.584
62.5	1795.307	1804.646	2017.094	2319.425	2561.056	2587.904	3799.561	13343.406	25890.714	26193.044
65.0	1418.269	1432.277	1669.239	1979.741	2208.532	2208.532	3337.311	10198.700	25805.501	26523.390
67.5	971.194	971.194	1259.517	1608.539	1830.326	1822.155	2720.976	7511.575	26837.394	27639.329
68.0	877.810	877.810	1141.619	1530.330	1753.285	1742.779	2584.402	7059.830	26980.972	27738.550
70.0	699.213	701.547	786.760	1212.825	1450.954	1441.615	2041.608	5441.953	25163.486	25766.980
72.5	545.129	554.467	617.502	815.943	1120.608	1139.285	1436.946	3433.029	17891.207	17881.868
75.0	408.555	416.726	471.589	574.312	867.304	953.684	945.513	1722.935	7188.233	6787.849
77.5	284.821	297.661	342.019	415.559	671.197	855.631	556.802	841.623	1501.148	1489.475
80.0	189.103	199.608	231.125	270.814	493.768	618.669	340.852	458.749	615.167	628.007
82.5	105.057	112.061	129.570	150.582	303.498	291.825	192.604	238.129	324.509	314.004
85.0	40.855	45.525	52.528	59.532	145.912	101.555	75.874	88.715	121.399	117.897
87.5	4.669	5.836	7.004	7.004	22.179	8.171	7.004	7.004	11.673	11.673
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	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139	6399.139
2.5	6591.743	6477.348	6348.945	6109.648	5877.355	5653.234	5433.781	5275.029	5152.462	5061.413
5.0	6748.161	6464.507	6171.515	5613.546	5076.588	4586.322	4156.755	3826.409	3581.276	3412.018
7.5	6902.245	6469.177	6015.097	5138.455	4333.018	3636.139	3082.839	2705.801	2466.505	2340.436
10.0	7073.838	6479.682	5868.017	4694.881	3661.820	2866.889	2390.630	2173.513	2088.300	2046.277
12.5	7276.948	6518.203	5752.454	4294.497	3099.181	2369.619	2112.813	2031.102	1987.912	1958.729
15.0	7509.241	6598.747	5673.078	3931.466	2650.938	2133.824	2015.927	1961.064	1924.878	1903.866
17.5	7806.902	6732.986	5633.390	3597.619	2343.938	2033.437	1952.893	1912.037	1885.189	1861.843
20.0	8183.940	6917.420	5631.055	3312.797	2174.680	1977.406	1907.368	1879.353	1860.676	1833.828
22.5	8583.157	7145.043	5664.907	3069.999	2085.965	1936.551	1874.684	1854.840	1847.836	1816.319
25.0	9016.225	7407.686	5727.941	2866.889	2033.437	1898.030	1849.003	1833.828	1832.661	1788.304

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**CANDELA TABULATION - (Cont.)**

27.5	9490.149	7699.511	5811.987	2702.299	1989.079	1860.676	1818.653	1811.650	1801.144	1750.950
30.0	9979.248	7994.838	5914.709	2569.227	1947.056	1819.821	1780.132	1776.631	1754.452	1705.425
32.5	10435.662	8287.830	6013.930	2464.170	1908.535	1777.798	1734.608	1725.269	1686.748	1616.710
35.0	10830.209	8521.290	6101.477	2376.623	1870.015	1734.608	1683.247	1645.893	1567.684	1490.642
37.5	11189.738	8759.419	6192.526	2298.414	1818.653	1687.916	1603.870	1533.832	1453.288	1422.939
40.0	11611.133	9062.917	6343.108	2243.551	1764.958	1620.212	1501.148	1408.931	1385.585	1368.076
42.5	11962.490	9348.906	6510.032	2210.866	1713.596	1530.330	1406.596	1315.547	1338.893	1338.893
45.0	12354.703	9675.750	6707.306	2194.524	1657.566	1441.615	1300.372	1258.349	1294.536	1322.551
47.5	12858.977	10132.164	7016.640	2207.364	1595.699	1371.577	1215.159	1208.155	1256.015	1289.866
50.0	14196.702	11370.669	7909.625	2353.277	1546.672	1309.711	1191.813	1167.300	1219.828	1266.520
52.5	16521.964	13519.668	9743.453	2852.881	1489.475	1222.163	1187.144	1121.775	1199.984	1264.186
55.0	18500.537	15108.364	11214.251	3134.200	1377.414	1125.277	1078.585	1077.418	1194.148	1274.692
57.5	18418.826	14878.406	11215.418	2899.573	1228.000	1028.391	1000.376	1049.403	1191.813	1265.353
60.0	17906.382	14281.915	10658.616	2418.646	1089.091	952.517	946.680	1027.224	1167.300	1216.327
62.5	17537.515	13718.109	10191.696	2039.273	970.026	887.148	895.319	998.041	1108.935	1138.117
65.0	17456.971	13339.904	9966.407	1754.452	866.137	817.110	842.791	946.680	1020.220	1086.756
67.5	17928.560	13009.558	9671.080	1468.463	770.418	741.235	790.262	876.642	943.178	1320.216
68.0	17947.237	12868.315	9583.533	1400.760	752.908	726.061	777.422	860.300	937.342	1410.098
70.0	16533.637	11085.848	88339.191	1174.304	685.205	667.696	729.562	791.429	1012.049	1775.463
72.5	12309.178	7348.153	5443.120	807.772	605.829	601.159	659.524	700.380	1326.053	2112.813
75.0	4463.755	3039.649	2305.417	561.471	520.616	541.627	583.650	610.498	1615.543	2055.615
77.5	1064.578	826.448	614.000	384.042	408.555	456.414	500.772	542.794	1588.695	1545.505
80.0	484.429	408.555	330.346	260.308	297.661	363.030	401.551	452.912	1173.136	1037.730
82.5	268.479	243.966	204.277	159.920	199.608	254.471	282.487	311.669	678.201	602.327
85.0	100.388	92.217	85.213	71.205	101.555	128.403	143.578	155.251	331.513	288.323
87.5	8.171	5.836	8.171	8.171	19.844	28.015	33.852	42.023	101.555	63.034
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

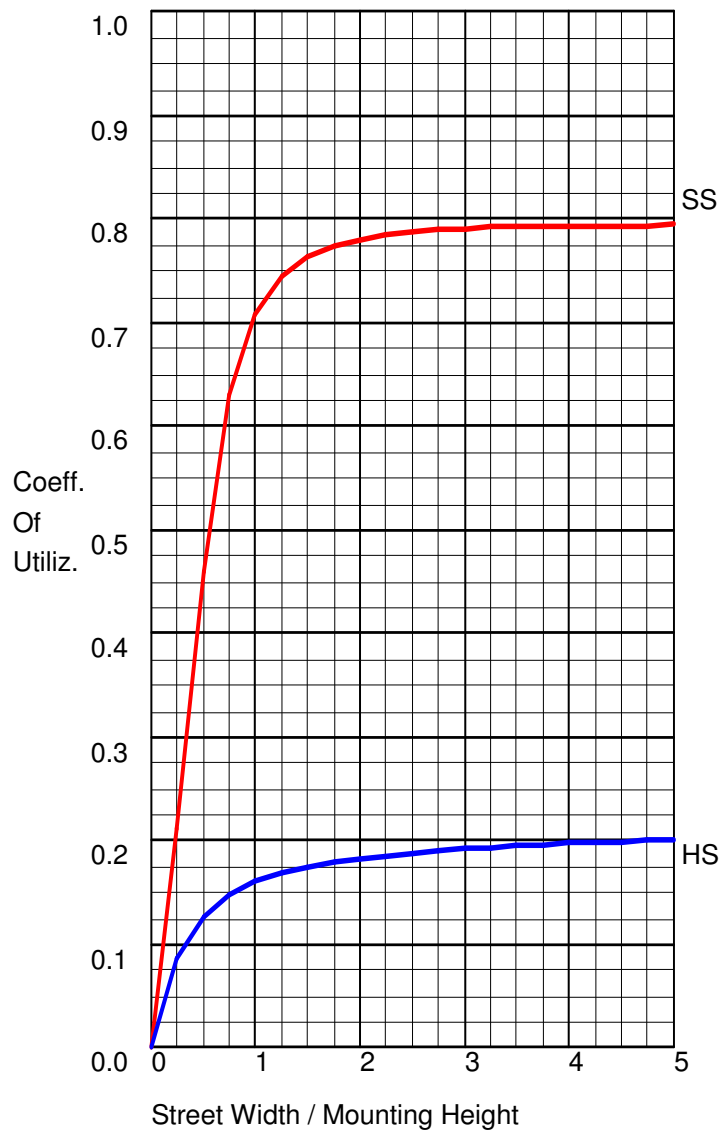
**Vert. Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	6399.139	6399.139
2.5	5015.888	5067.249
5.0	3324.470	3360.657
7.5	2292.577	2307.752
10.0	2032.269	2025.265
12.5	1948.224	1943.554
15.0	1891.026	1888.691
17.5	1849.003	1845.501
20.0	1817.486	1813.984
22.5	1792.973	1787.136
25.0	1756.786	1752.117
27.5	1714.764	1715.931
30.0	1657.566	1652.897
32.5	1546.672	1539.669
35.0	1456.790	1457.958
37.5	1412.433	1425.273
40.0	1359.904	1370.410
42.5	1305.041	1309.711
45.0	1289.866	1267.688
47.5	1257.182	1245.509
50.0	1235.003	1249.011
52.5	1253.680	1272.357
55.0	1278.193	1296.870
57.5	1277.026	1294.536
60.0	1236.171	1251.346

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-750-T2-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	1169.635	1189.479
<b>65.0</b>	1176.638	1222.163
<b>67.5</b>	1464.961	1530.330
<b>68.0</b>	1532.665	1598.034
<b>70.0</b>	1748.615	1812.817
<b>72.5</b>	1872.349	1921.376
<b>75.0</b>	1624.882	1626.049
<b>77.5</b>	1154.460	1111.270
<b>80.0</b>	763.414	715.555
<b>82.5</b>	459.916	435.403
<b>85.0</b>	161.087	128.403
<b>87.5</b>	24.513	7.004
<b>90.0</b>	0.000	0.000

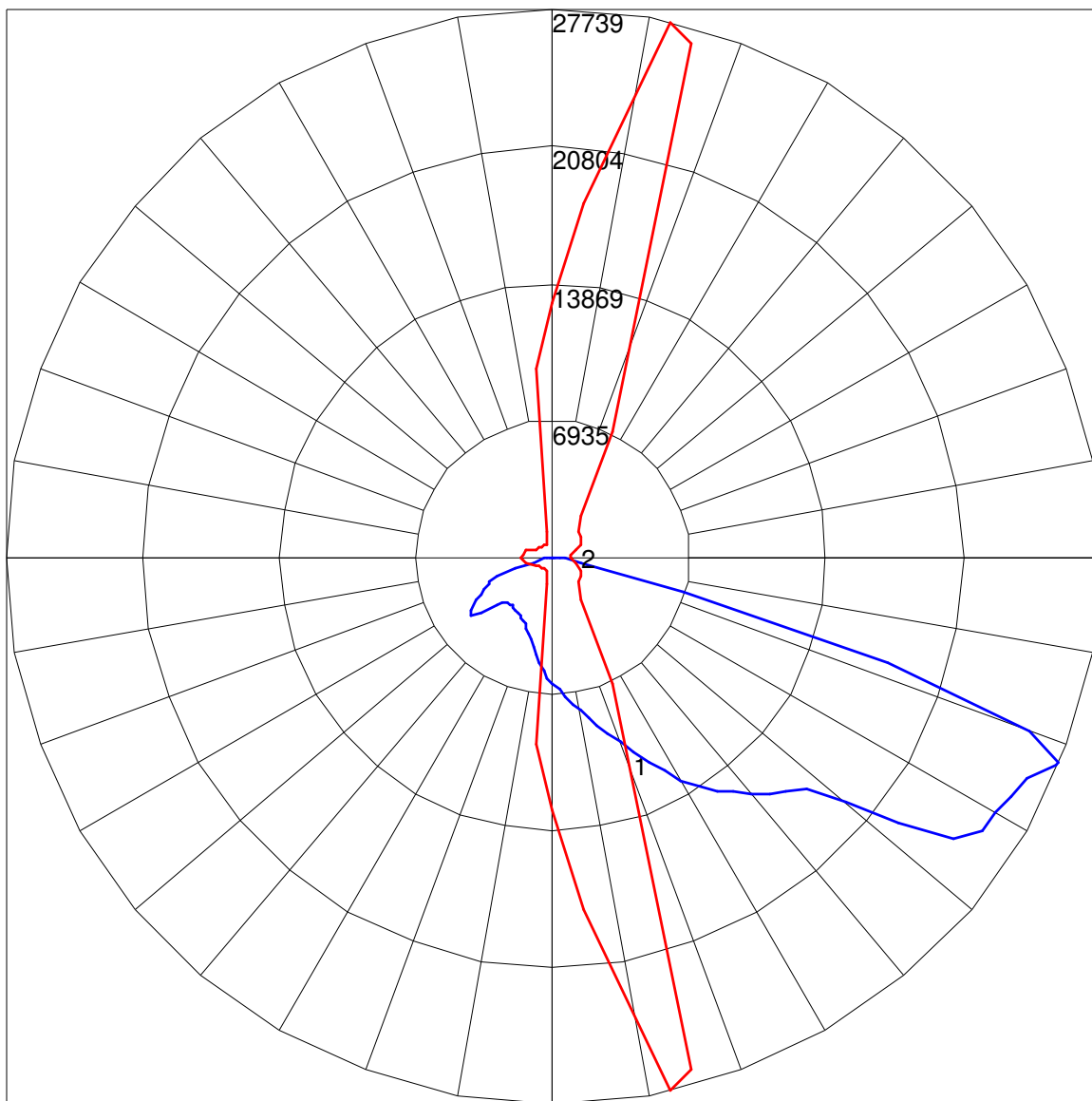
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

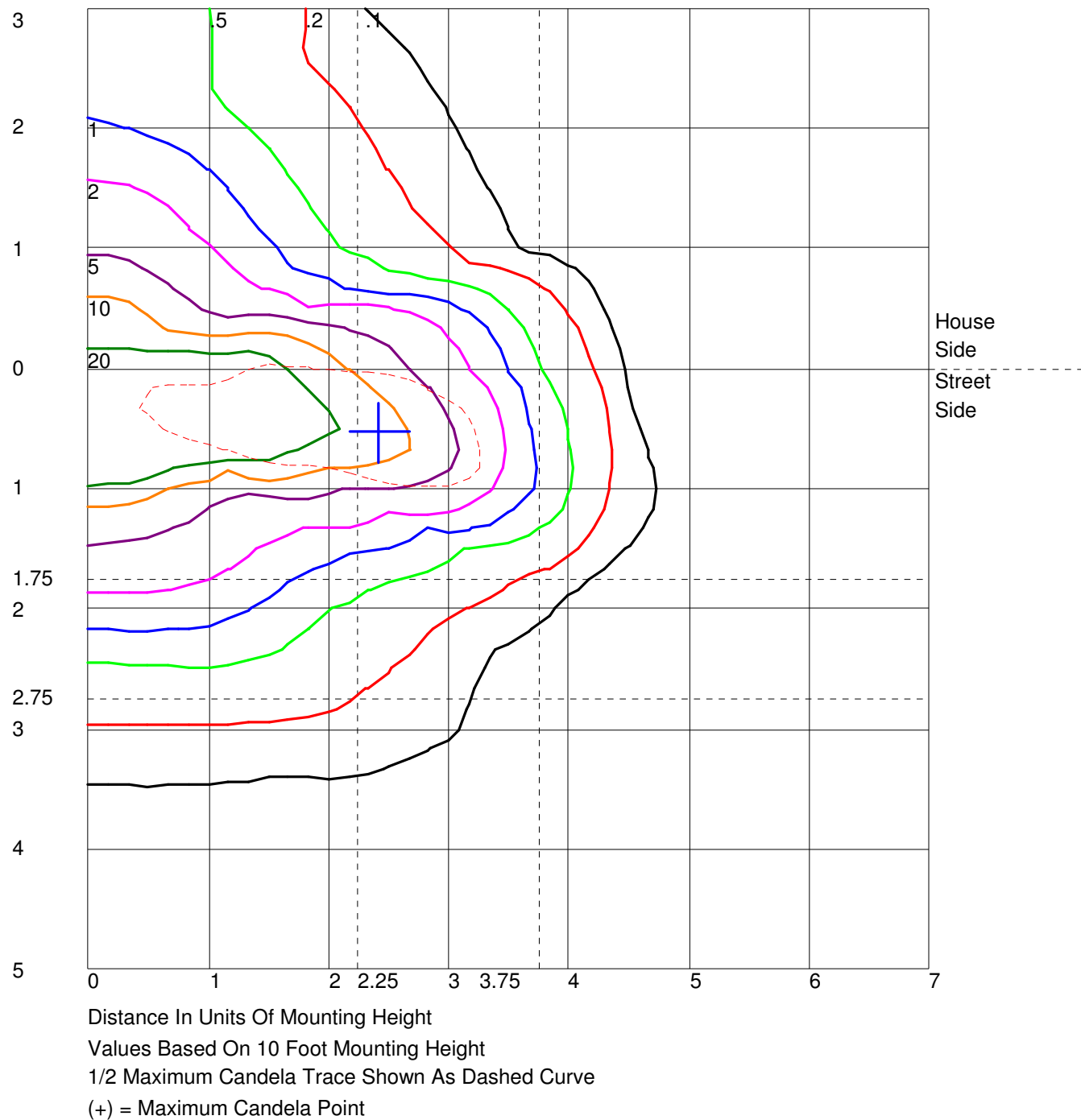
	Lumens	Percent Of Luminaire
Downward Street Side	22005.2	79.6
Downward House Side	5646.1	20.4
Downward Total	27651.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27651.3	100.0

POLAR GRAPH



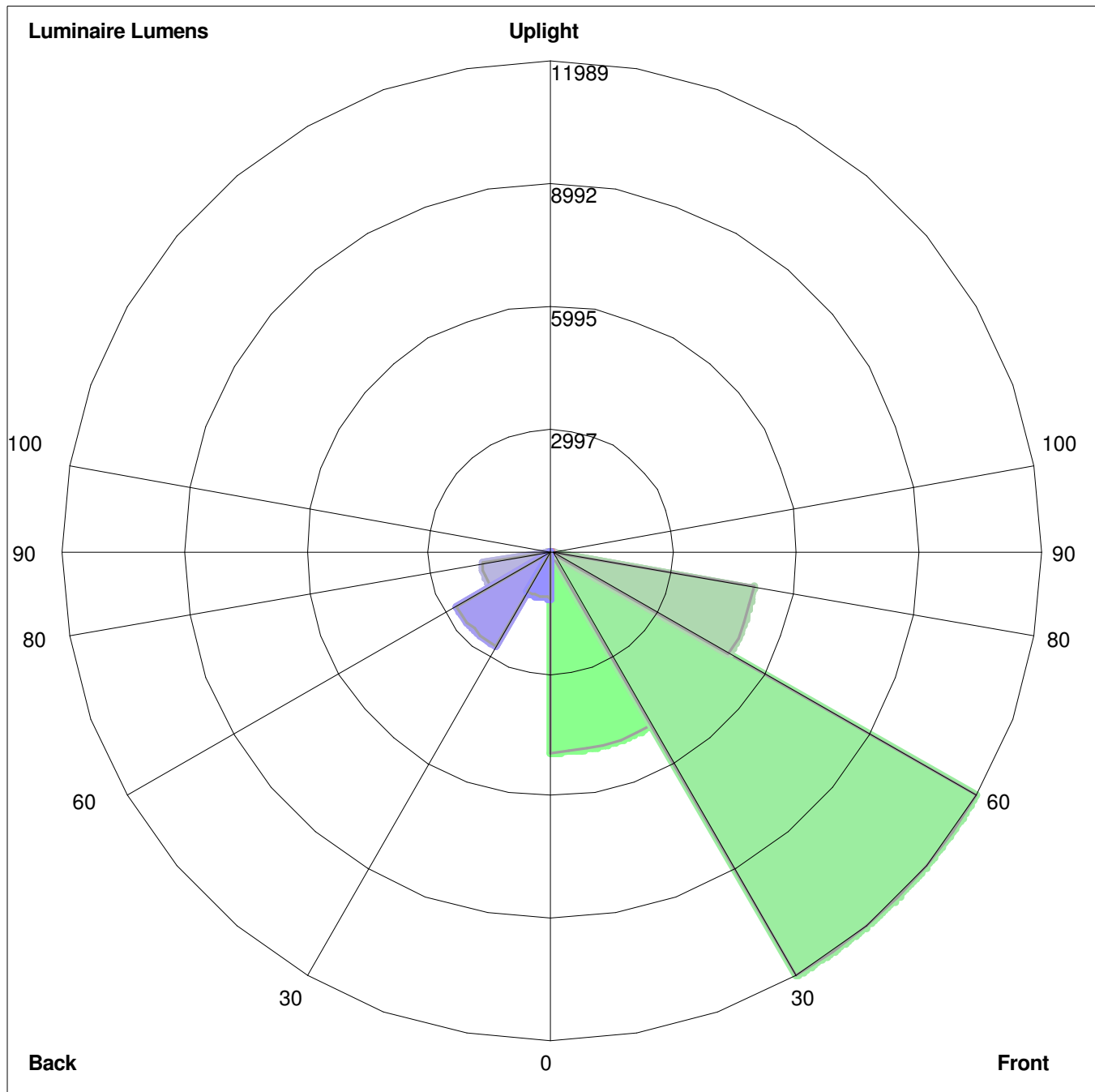
Maximum Candela = 27738.55 Located At Horizontal Angle = 77.5, Vertical Angle = 68  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=4917.7, Medium=11989.1, High= 5027.0, Very High=71.5  
Back: Low=1142.2, Medium=2672.7, High=1718.1, Very High=113.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3