



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-750-T3-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011772  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 02/26/2020  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L280-750-T3-F-S-xxx-DIM-UNV  
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE III  
[MORE] OPTICS, CLEAR LENS, (2) LED ARRAYS  
[MORE] AND (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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27203
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20095.495
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	20095.495
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	4665.453 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-750-T3-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2703.9	N.A.	9.9
FM - Front-Medium (30-60)	9457.1	N.A.	34.8
FH - Front-High (60-80)	6701.2	N.A.	24.6
FVH - Front-Very High (80-90)	224.2	N.A.	0.8
BL - Back-Low (0-30)	1455.8	N.A.	5.4
BM - Back-Medium (30-60)	3352.1	N.A.	12.3
BH - Back-High (60-80)	3001.3	N.A.	11.0
BVH - Back-Very High (80-90)	307.4	N.A.	1.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	27203.0	N.A.	100.0
BUG Rating	B4-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887
2.5	5858.524	5848.540	5848.540	5858.524	5830.569	5806.608	5803.612	5784.643	5768.669	5735.722
5.0	6097.138	6102.130	6097.138	6089.151	6053.209	6014.272	5993.306	5931.406	5911.438	5828.572
7.5	6137.073	6147.057	6146.059	6153.047	6154.046	6149.054	6139.070	6068.184	6049.215	5926.414
10.0	6099.134	6101.131	6099.134	6113.112	6137.073	6175.012	6210.954	6179.005	6166.026	6034.239
12.5	6087.154	6087.154	6074.175	6085.157	6114.110	6164.029	6229.923	6247.894	6252.886	6145.060
15.0	6139.070	6129.086	6107.121	6096.139	6119.102	6171.018	6243.900	6299.810	6311.790	6262.870
17.5	6238.908	6240.905	6211.952	6178.007	6173.015	6211.952	6284.834	6363.706	6375.687	6385.671
20.0	6373.690	6379.681	6353.723	6314.786	6297.813	6301.807	6368.698	6457.555	6475.526	6526.443
22.5	6481.516	6500.485	6481.516	6471.532	6460.550	6458.553	6509.471	6584.350	6612.304	6671.209
25.0	6572.369	6574.366	6567.377	6591.338	6637.264	6650.243	6685.186	6732.111	6766.056	6810.983
27.5	6660.227	6644.253	6621.290	6665.219	6783.028	6869.888	6890.854	6904.831	6919.807	6945.765
30.0	6737.102	6725.122	6696.169	6699.164	6856.909	7096.521	7138.453	7113.494	7099.516	7088.534
32.5	6748.085	6739.099	6750.081	6781.031	6911.820	7309.177	7417.003	7328.146	7305.184	7211.335
35.0	6730.114	6728.117	6768.052	6866.893	7084.540	7507.856	7731.494	7606.696	7535.811	7331.142
37.5	6688.182	6683.190	6752.078	6985.700	7380.062	7768.434	8087.917	7908.208	7787.404	7412.011
40.0	6610.308	6628.278	6736.104	7198.356	8038.997	8597.094	8573.133	8232.683	8078.932	7499.869
42.5	6575.364	6596.330	6696.169	7155.426	8213.714	9448.716	9587.492	8896.609	8594.099	7639.643
45.0	6888.857	6893.849	6845.926	7146.440	8063.956	9412.774	10387.198	10000.823	9668.361	8076.935
47.5	7558.773	7548.790	7509.853	7575.746	8096.903	9154.193	10470.064	10706.682	10589.870	9151.198
50.0	7528.822	7507.856	7733.491	8168.787	8575.129	9090.296	10124.623	10677.728	10643.783	9651.388
52.5	6981.707	6994.686	7433.975	8188.754	9154.193	9568.523	9943.915	10308.326	10337.279	9440.729
55.0	5505.095	5575.981	6490.501	8007.048	9608.458	10837.470	10482.045	10432.126	10487.037	9641.405
57.5	4058.435	4139.305	5069.799	7128.469	9742.242	12547.704	11977.626	11190.898	11128.000	10098.665
60.0	3203.818	3256.732	3810.836	5176.627	8819.734	13979.388	14985.760	12603.613	12372.986	10921.334
62.5	2481.985	2466.011	2754.544	3381.530	6680.195	13459.229	18477.113	15069.624	14367.760	12180.298
65.0	1745.177	1761.151	1929.878	2222.405	3975.569	12014.566	19112.085	18316.373	17188.197	13789.695
67.5	1506.563	1515.549	1718.221	1799.090	2100.602	8257.643	17373.897	20095.495	19409.604	14940.833
70.0	1202.056	1174.101	1445.662	1570.460	1552.489	3692.028	14321.834	18675.791	19170.990	15401.088
72.5	854.618	824.666	928.498	1322.860	1194.069	1915.901	9180.151	14945.825	15941.214	14403.701
75.0	651.945	643.958	661.929	1011.364	959.448	1163.119	3978.565	10012.804	11031.157	10284.365
77.5	436.294	432.301	449.273	666.921	803.700	776.744	1617.384	4698.400	5749.700	6700.162
80.0	273.558	265.570	290.530	415.328	692.879	499.193	784.731	1733.196	2727.588	4665.453
82.5	142.769	143.767	160.740	241.609	473.235	280.546	398.356	631.978	929.497	2371.165
85.0	55.910	55.910	64.895	104.830	169.725	111.819	151.755	201.674	262.575	544.120
87.5	6.989	7.987	9.984	15.974	21.964	15.974	24.960	24.960	32.947	35.942
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887	5633.887
2.5	5684.805	5679.813	5644.869	5592.953	5530.055	5461.166	5423.228	5380.297	5312.407	5295.434
5.0	5717.751	5673.822	5605.932	5482.132	5346.352	5192.601	5077.786	4965.967	4865.130	4802.232
7.5	5767.671	5687.800	5584.966	5382.294	5154.662	4890.090	4636.500	4376.920	4114.345	3921.657
10.0	5834.562	5711.761	5579.974	5290.442	4944.003	4498.723	3963.589	3456.409	3060.050	2871.355
12.5	5912.436	5749.700	5587.961	5198.591	4694.407	3937.631	3164.881	2773.514	2640.729	2603.788
15.0	6007.283	5808.604	5611.922	5110.733	4365.938	3297.666	2742.564	2622.758	2585.817	2568.845
17.5	6124.094	5888.475	5653.855	5016.885	3941.624	2863.368	2651.711	2596.800	2567.846	2555.866
20.0	6255.881	5993.306	5714.756	4918.045	3475.378	2697.636	2622.758	2582.822	2549.875	2525.914
22.5	6401.645	6111.115	5781.648	4800.235	3098.987	2656.703	2601.791	2554.867	2508.942	2466.011
25.0	6544.414	6224.931	5841.551	4646.484	2868.360	2635.737	2567.846	2498.958	2441.052	2393.129
27.5	6690.178	6345.736	5897.461	4454.794	2757.540	2610.777	2510.938	2435.061	2374.160	2317.252

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## CANDELA TABULATION - (Cont.)

30.0	6833.946	6469.535	5960.359	4239.143	2707.620	2569.843	2445.045	2358.186	2298.282	2247.365
32.5	6960.741	6576.362	6016.268	4007.518	2668.683	2513.934	2375.158	2278.315	2225.400	2184.467
35.0	7051.594	6644.253	6051.212	3777.889	2618.764	2446.043	2303.274	2196.447	2152.518	2110.586
37.5	7077.552	6656.233	6051.212	3577.214	2560.858	2371.165	2231.391	2117.575	2075.643	2030.715
40.0	7105.507	6670.211	6043.225	3422.464	2505.947	2299.281	2164.499	2046.689	2001.762	1946.851
42.5	7141.448	6672.207	6036.236	3298.664	2465.013	2235.384	2096.609	1983.791	1913.904	1857.995
45.0	7351.109	6849.920	6171.018	3245.750	2423.081	2181.471	2046.689	1927.882	1821.054	1767.142
47.5	8069.947	7438.967	6720.130	3515.314	2492.968	2150.521	2014.741	1898.928	1761.151	1716.224
50.0	8467.304	7847.307	7091.529	3921.657	2877.346	2249.362	2014.741	1921.891	1798.092	1839.025
52.5	8254.648	7656.615	6899.839	3707.004	3022.112	2593.804	2074.644	1952.841	1964.822	2232.389
55.0	8477.288	7905.213	7218.324	3767.905	2667.685	2476.993	2299.281	1963.823	2157.510	2674.674
57.5	8894.613	8381.443	7832.331	4412.862	2611.775	2148.525	2095.610	1987.785	2251.358	2902.305
60.0	9505.624	8935.546	8638.028	5413.244	2663.691	2020.731	1826.046	1814.066	2211.423	2783.498
62.5	10252.416	9588.490	9400.794	6452.563	2820.438	1926.883	1679.284	1674.292	2098.605	2483.982
65.0	11002.203	9976.862	9702.306	6971.723	3149.905	1848.011	1551.490	1560.476	1962.825	2185.465
67.5	11282.750	10096.668	9842.080	7163.413	3535.282	1753.164	1420.702	1433.681	1784.114	1872.970
70.0	11183.910	10148.584	10053.738	7075.555	3897.695	1641.345	1265.952	1273.939	1566.466	1631.361
72.5	10124.623	9391.808	9391.808	6738.101	4144.296	1544.502	1094.230	1103.216	1345.823	1373.778
75.0	6875.878	6317.781	6402.643	5541.037	4121.334	1471.620	921.509	934.488	1124.182	1083.248
77.5	4246.132	3813.831	3861.753	4454.794	3879.724	1399.736	740.802	753.781	887.564	625.987
80.0	3257.730	2822.435	2922.273	3488.357	3480.370	1307.884	546.117	563.089	640.963	300.514
82.5	1525.532	1384.760	1546.498	2103.597	2749.552	1150.140	295.522	361.415	360.417	189.693
85.0	206.666	196.682	271.561	719.836	1576.450	744.795	129.790	144.766	114.814	89.855
87.5	23.961	20.966	23.961	49.919	408.339	257.583	27.955	29.952	22.963	17.971
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

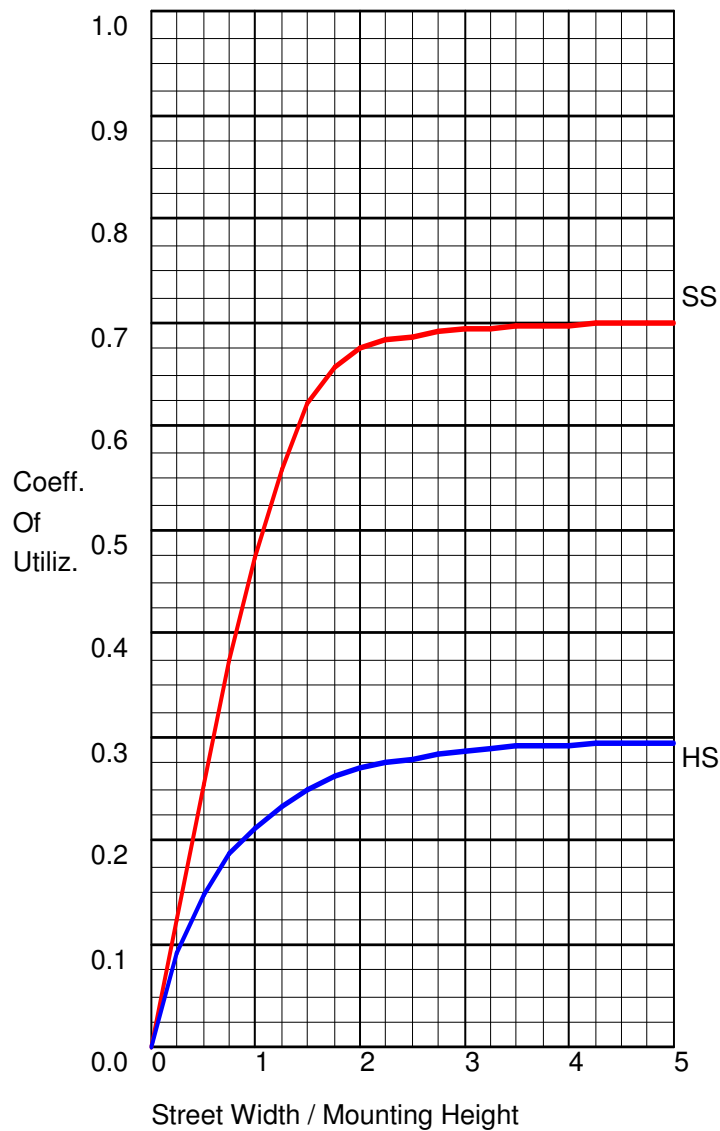
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	5633.887	5633.887
2.5	5319.396	5323.389
5.0	4777.273	4783.263
7.5	3836.794	3837.792
10.0	2808.457	2803.465
12.5	2592.806	2587.814
15.0	2563.853	2562.854
17.5	2550.874	2548.877
20.0	2517.927	2513.934
22.5	2452.034	2446.043
25.0	2369.168	2371.165
27.5	2282.308	2284.305
30.0	2207.429	2208.428
32.5	2136.544	2136.544
35.0	2066.657	2065.659
37.5	1996.770	1988.783
40.0	1911.907	1903.920
42.5	1816.062	1809.074
45.0	1733.196	1729.203
47.5	1688.269	1688.269
50.0	1853.003	1876.964
52.5	2348.202	2387.139
55.0	2909.294	2954.221
57.5	3272.706	3354.574
60.0	3062.047	3074.028
62.5	2585.817	2554.867
65.0	2144.531	2147.526

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-750-T3-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	1729.203	1713.229
<b>70.0</b>	1441.668	1431.684
<b>72.5</b>	1188.078	1175.099
<b>75.0</b>	816.679	810.689
<b>77.5</b>	454.265	451.270
<b>80.0</b>	303.509	295.522
<b>82.5</b>	193.687	193.687
<b>85.0</b>	71.884	59.903
<b>87.5</b>	7.987	2.995
<b>90.0</b>	0.000	0.000

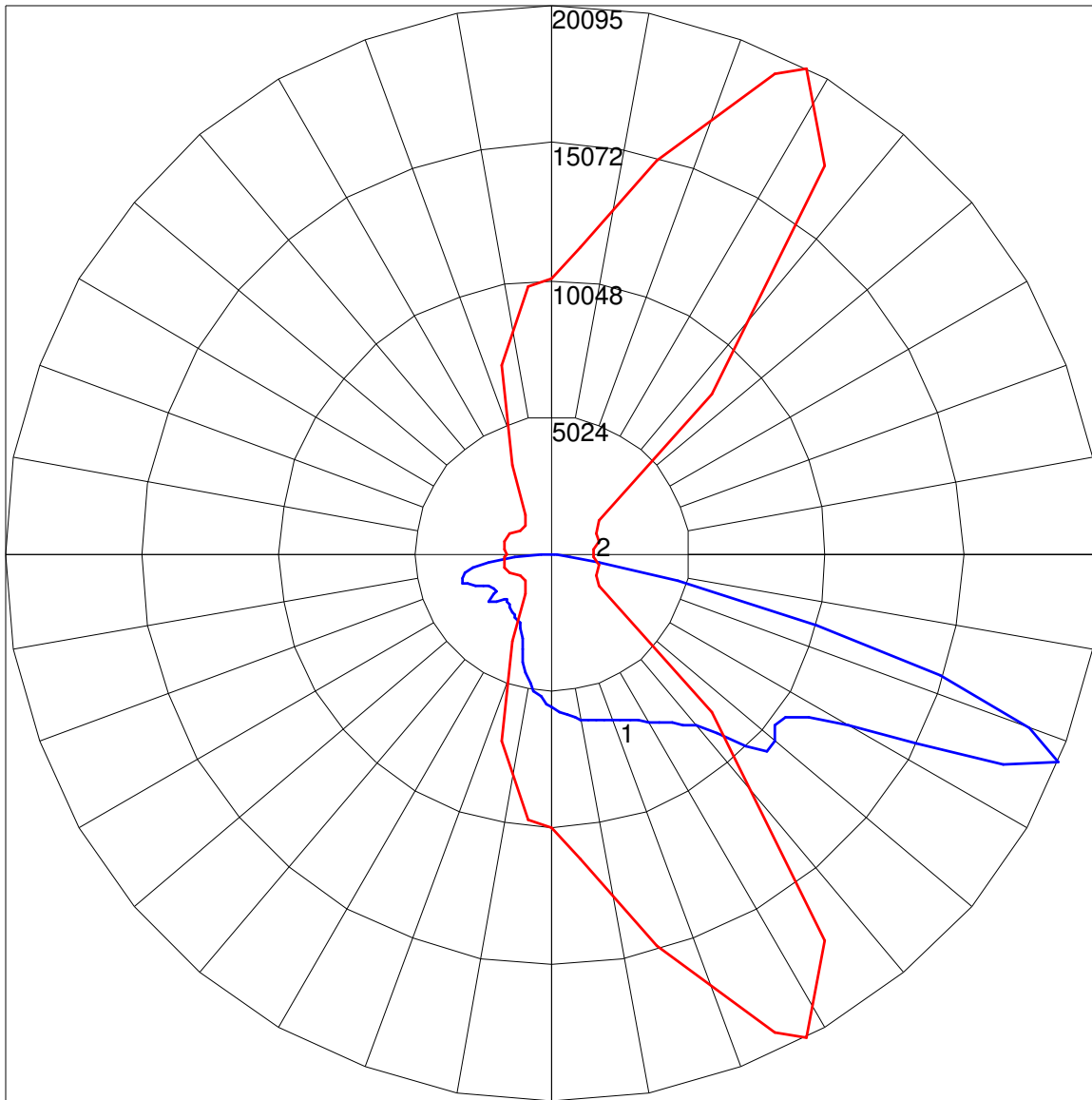
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

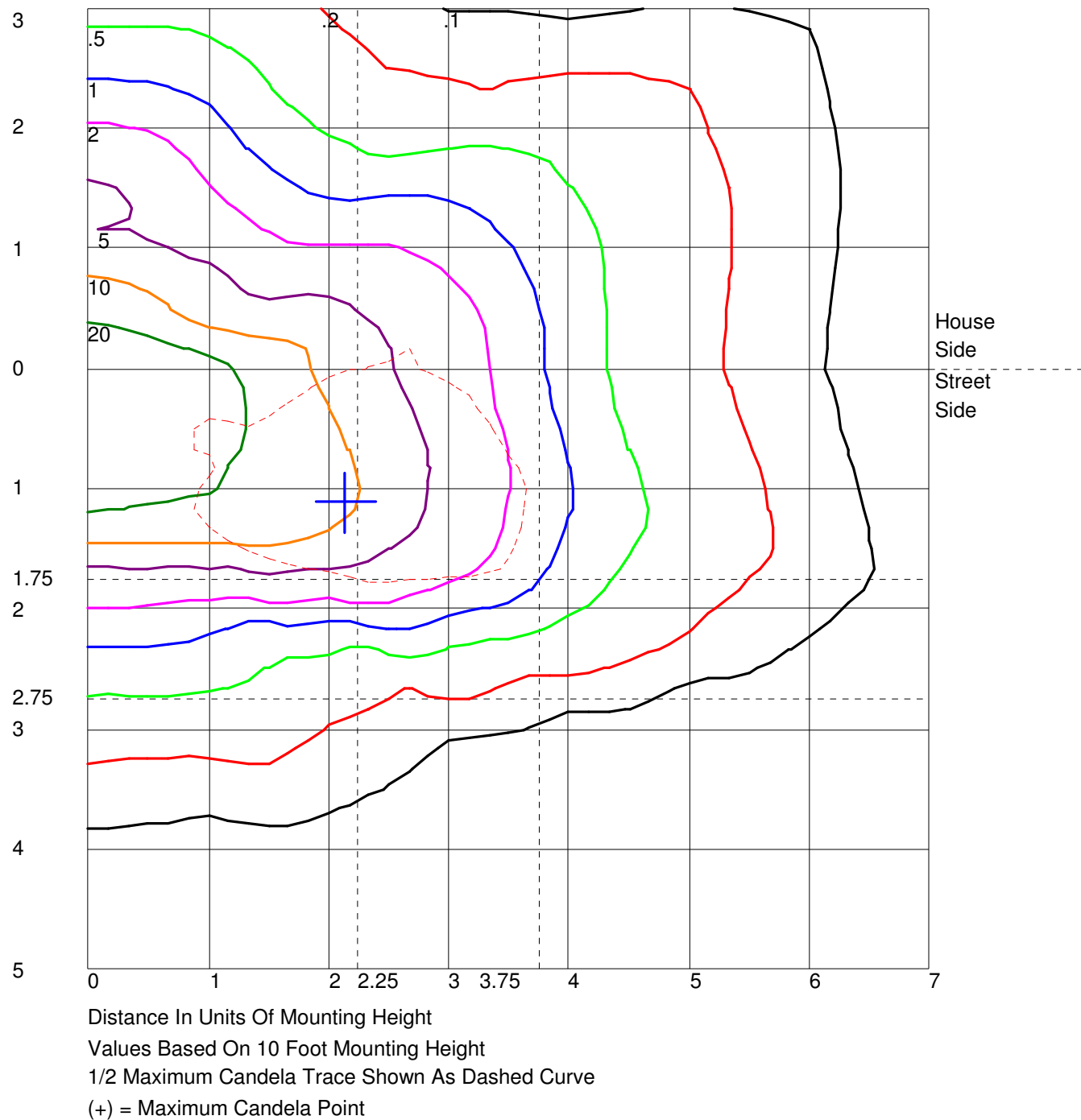
	Lumens	Percent Of Luminaire
Downward Street Side	19086.5	70.2
Downward House Side	8116.6	29.8
Downward Total	27203.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27203.1	100.0

POLAR GRAPH



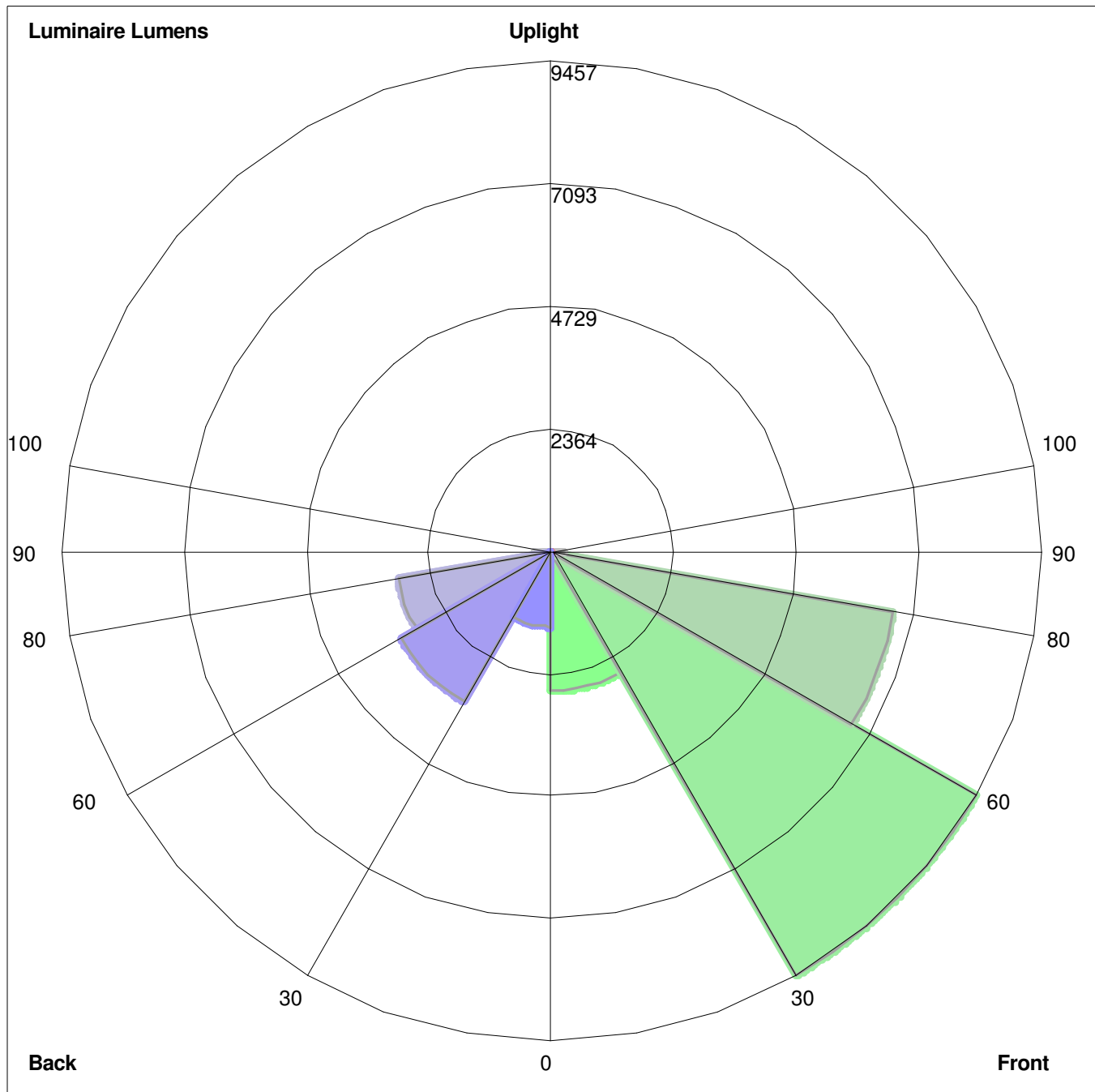
Maximum Candela = 20095.495 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2703.9, Medium=9457.1, High=6701.2, Very High=224.2  
Back: Low=1455.8, Medium=3352.1, High=3001.3, Very High=307.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4