



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-730-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-L280-730-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	27383
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27469.504
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	27469.504
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	1161.758 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-730-T2-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	4870.0	N.A.	17.8
FM - Front-Medium (30-60)	11872.8	N.A.	43.4
FH - Front-High (60-80)	4978.2	N.A.	18.2
FVH - Front-Very High (80-90)	70.8	N.A.	0.3
BL - Back-Low (0-30)	1131.1	N.A.	4.1
BM - Back-Medium (30-60)	2646.8	N.A.	9.7
BH - Back-High (60-80)	1701.5	N.A.	6.2
BVH - Back-Very High (80-90)	111.9	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	27383.1	N.A.	100.0
BUG Rating	B3-U0-G3		

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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>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071
2.5	7582.059	7530.040	7493.049	7441.030	7364.736	7208.679	7095.393	6920.840	6726.636	6672.305
5.0	9239.732	9251.292	9154.190	9008.536	8780.809	8429.391	8093.002	7658.354	7182.091	7053.778
7.5	10890.468	10904.340	10762.155	10519.399	10161.046	96918.893	9083.675	8394.712	7646.794	7452.590
10.0	12297.294	12277.642	12121.585	11845.306	11433.778	10765.623	10063.944	9127.602	8106.873	7846.778
12.5	12922.678	12889.154	12817.484	12685.702	12426.763	11806.003	11013.002	99881.300	8590.072	8259.463
15.0	12857.943	12837.135	12834.823	12856.787	12863.723	12611.720	11904.261	110673.145	9132.226	8727.634
17.5	12816.328	12800.144	12800.144	12814.016	12894.934	12968.917	12647.555	11498.513	9748.362	9266.319
20.0	12808.236	12808.236	12854.475	12871.815	12900.714	13044.055	13141.157	12377.056	10453.509	9896.327
22.5	12552.765	12583.976	12735.409	12882.218	12968.917	13064.863	13396.629	13151.561	11218.766	10595.694
25.0	11868.426	11901.949	12174.760	12610.564	12958.513	13157.341	13538.814	13857.864	12059.162	11365.575
27.5	10945.955	10988.727	11281.189	11901.949	12700.730	13218.608	13692.559	14417.357	12912.274	12149.328
30.0	10209.597	10238.497	10532.115	11065.021	12025.639	13106.478	13868.268	14832.353	13751.514	12948.109
32.5	9741.426	9781.886	10035.045	10477.784	11277.721	12786.272	14061.316	15167.587	14558.386	13711.055
35.0	9283.659	9322.962	9609.645	10041.981	10706.668	12311.165	14238.181	15435.774	15227.698	14347.998
37.5	8568.109	8637.467	8985.417	9492.891	10214.221	11882.297	14477.468	15664.657	15767.539	14915.584
40.0	7490.737	7561.252	8019.019	8723.010	9548.378	11285.813	14878.592	15916.661	16279.638	15522.472
42.5	6161.363	6102.408	6605.258	7482.645	8638.623	10418.829	14988.410	16692.322	16753.589	16080.809
45.0	4753.381	4712.922	5057.404	5787.982	7214.458	9410.817	14335.283	18113.019	17174.365	16573.256
47.5	3830.911	3789.296	3961.536	4315.266	5364.894	7941.569	13070.643	19234.317	18091.055	17316.550
50.0	3383.548	3352.336	3404.355	3495.677	3922.233	5541.758	11474.237	19838.894	19910.564	19170.739
52.5	3177.783	3148.884	3156.976	3107.269	3271.418	3743.057	8779.653	20486.241	22749.646	21903.470
55.0	2850.642	2820.586	2954.680	2984.735	3017.102	3183.563	5633.081	20739.401	25322.853	24580.715
57.5	2487.665	2465.701	2621.758	2876.073	2948.900	2995.139	4327.981	19327.952	26137.818	25567.921
60.0	2157.055	2143.183	2305.020	2597.482	2825.210	2833.302	4025.115	16458.814	25876.567	25707.794
62.5	1777.894	1787.142	1997.530	2296.928	2536.216	2562.803	3762.708	13213.984	25639.591	25938.990
65.0	1404.513	1418.385	1653.048	1960.539	2187.110	2187.110	3304.941	10099.779	25555.205	26266.131
67.5	961.774	961.774	1247.300	1592.938	1812.573	1804.482	2694.585	7438.718	26577.089	27371.246
68.0	869.295	869.295	1130.546	1515.487	1736.279	1725.875	2559.335	6991.355	26719.275	27469.504
70.0	692.431	694.743	779.129	1201.061	1436.881	1427.633	2021.805	5389.169	24919.417	25517.058
72.5	539.842	549.090	611.512	808.029	1109.739	1128.234	1423.009	3399.731	17717.674	17708.426
75.0	404.592	412.684	467.015	568.741	858.892	944.434	936.342	1706.223	7118.512	6722.012
77.5	282.059	294.774	338.702	411.528	664.687	847.332	551.401	833.460	1486.588	1475.028
80.0	187.268	197.672	228.884	268.187	488.979	612.668	337.546	454.299	609.200	621.916
82.5	104.038	110.974	128.314	149.121	300.554	288.994	190.736	235.820	321.362	310.958
85.0	40.459	45.083	52.019	58.955	144.497	100.570	75.139	87.854	120.222	116.754
87.5	4.624	5.780	6.936	6.936	21.964	8.092	6.936	6.936	11.560	11.560
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	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071	6337.071
2.5	6527.808	6414.522	6287.364	6050.389	5820.349	5598.401	5381.077	5223.864	5102.487	5012.320
5.0	6682.709	6401.806	6111.655	5559.098	5027.348	4541.837	4116.438	3789.296	3546.540	3378.924
7.5	6835.298	6406.430	5956.754	5088.615	4290.990	3600.871	3052.938	2679.557	2442.581	2317.736
10.0	7005.226	6416.834	5811.101	4649.343	3626.303	2839.082	2367.443	2152.431	2068.045	2026.429
12.5	7206.367	6454.981	5696.659	4252.843	3069.121	2346.635	2092.320	2011.402	1968.630	1939.731
15.0	7436.406	6534.743	5618.053	3893.334	2625.226	2113.128	1996.374	1942.043	1906.208	1885.400
17.5	7731.181	6667.681	5578.750	3562.724	2321.204	2013.714	1933.951	1893.492	1866.904	1843.785
20.0	8104.562	6850.325	5576.438	3280.665	2153.587	1958.227	1888.868	1861.125	1842.629	1816.041
22.5	8499.906	7075.741	5609.961	3040.222	2065.733	1917.767	1856.501	1836.849	1829.913	1798.702
25.0	8928.774	7335.836	5672.384	2839.082	2013.714	1879.620	1831.069	1816.041	1814.885	1770.958

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**CANDELA TABULATION - (Cont.)**

27.5	9398.101	7624.831	5755.614	2676.089	1969.786	1842.629	1801.014	1794.078	1783.674	1733.967
30.0	9882.456	7917.293	5857.340	2544.307	1928.171	1802.170	1762.866	1759.398	1737.435	1688.884
32.5	10334.443	8207.444	5955.598	2440.269	1890.024	1760.554	1717.783	1708.535	1670.388	1601.029
35.0	10725.164	8438.639	6042.297	2353.571	1851.877	1717.783	1666.920	1629.929	1552.478	1476.184
37.5	11081.205	8674.459	6132.463	2276.121	1801.014	1671.544	1588.314	1518.955	1439.193	1409.137
40.0	11498.513	8975.013	6281.584	2221.790	1747.839	1604.497	1486.588	1395.265	1372.146	1354.806
42.5	11846.462	9258.228	6446.889	2189.422	1696.976	1515.487	1392.953	1302.787	1325.907	1325.907
45.0	12234.871	9581.901	6642.249	2173.239	1641.489	1427.633	1287.759	1246.144	1281.980	1309.723
47.5	12734.253	10033.889	6948.584	2185.954	1580.222	1358.274	1203.373	1196.437	1243.832	1277.356
50.0	14059.004	11260.381	7832.907	2330.452	1531.671	1297.007	1180.254	1155.978	1207.997	1254.236
52.5	16361.712	13388.537	9648.948	2825.210	1475.028	1210.309	1175.630	1110.895	1188.345	1251.924
55.0	18321.095	14961.823	11105.480	3103.801	1364.054	1114.363	1068.124	1066.968	1182.565	1262.328
57.5	18240.176	14734.095	11106.636	2871.449	1216.089	1018.417	990.673	1039.224	1180.254	1253.080
60.0	17732.702	14143.390	10555.235	2395.186	1078.527	943.278	937.498	1017.261	1155.978	1204.529
62.5	17367.413	13585.053	10092.844	2019.494	960.618	878.543	886.635	988.361	1098.179	1127.079
65.0	17287.650	13210.516	9869.740	1737.435	857.736	809.185	834.616	937.498	1010.325	1076.215
67.5	17754.666	12883.374	9577.277	1454.220	762.945	734.046	782.597	868.139	934.030	1307.411
68.0	17773.161	12743.501	9490.579	1387.174	745.606	719.018	769.881	851.956	928.250	1396.421
70.0	16373.272	10978.323	8258.307	1162.914	678.559	661.219	722.486	783.753	1002.233	1758.242
72.5	12189.788	7276.881	5390.325	799.937	599.953	595.329	653.128	693.587	1313.191	2092.320
75.0	4420.460	3010.167	2283.056	556.025	515.566	536.374	577.989	604.576	1599.874	2035.677
77.5	1054.252	818.432	608.044	380.317	404.592	451.987	495.915	537.530	1573.286	1530.515
80.0	479.731	404.592	327.142	257.783	294.774	359.509	397.656	448.519	1161.758	1027.664
82.5	265.875	241.599	202.296	158.369	197.672	252.003	279.747	308.646	671.623	596.485
85.0	99.414	91.322	84.386	70.515	100.570	127.158	142.185	153.745	328.298	285.527
87.5	8.092	5.780	8.092	8.092	19.652	27.743	33.523	41.615	100.570	62.423
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

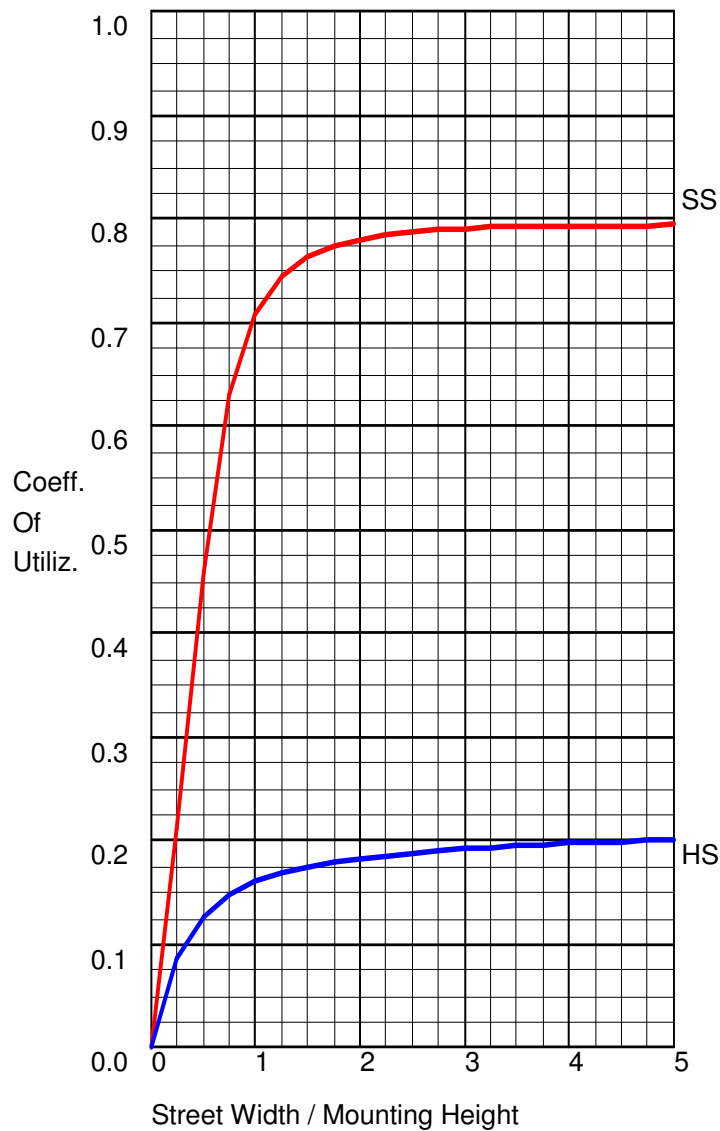
**Vert. Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	6337.071	6337.071
2.5	4967.237	5018.100
5.0	3292.225	3328.061
7.5	2270.341	2285.368
10.0	2012.558	2005.622
12.5	1929.327	1924.703
15.0	1872.684	1870.372
17.5	1831.069	1827.601
20.0	1799.858	1796.390
22.5	1775.582	1769.802
25.0	1739.747	1735.123
27.5	1698.132	1699.288
30.0	1641.489	1636.865
32.5	1531.671	1524.735
35.0	1442.660	1443.816
37.5	1398.733	1411.449
40.0	1346.714	1357.118
42.5	1292.383	1297.007
45.0	1277.356	1255.392
47.5	1244.988	1233.428
50.0	1223.025	1236.896
52.5	1241.520	1260.016
55.0	1265.796	1284.292
57.5	1264.640	1281.980
60.0	1224.181	1239.208

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-730-T2-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	1158.290	1177.942
<b>65.0</b>	1165.226	1210.309
<b>67.5</b>	1450.752	1515.487
<b>68.0</b>	1517.799	1582.534
<b>70.0</b>	1731.655	1795.234
<b>72.5</b>	1854.189	1902.740
<b>75.0</b>	1609.121	1610.277
<b>77.5</b>	1143.262	1100.491
<b>80.0</b>	756.010	708.614
<b>82.5</b>	455.455	431.180
<b>85.0</b>	159.525	127.158
<b>87.5</b>	24.276	6.936
<b>90.0</b>	0.000	0.000

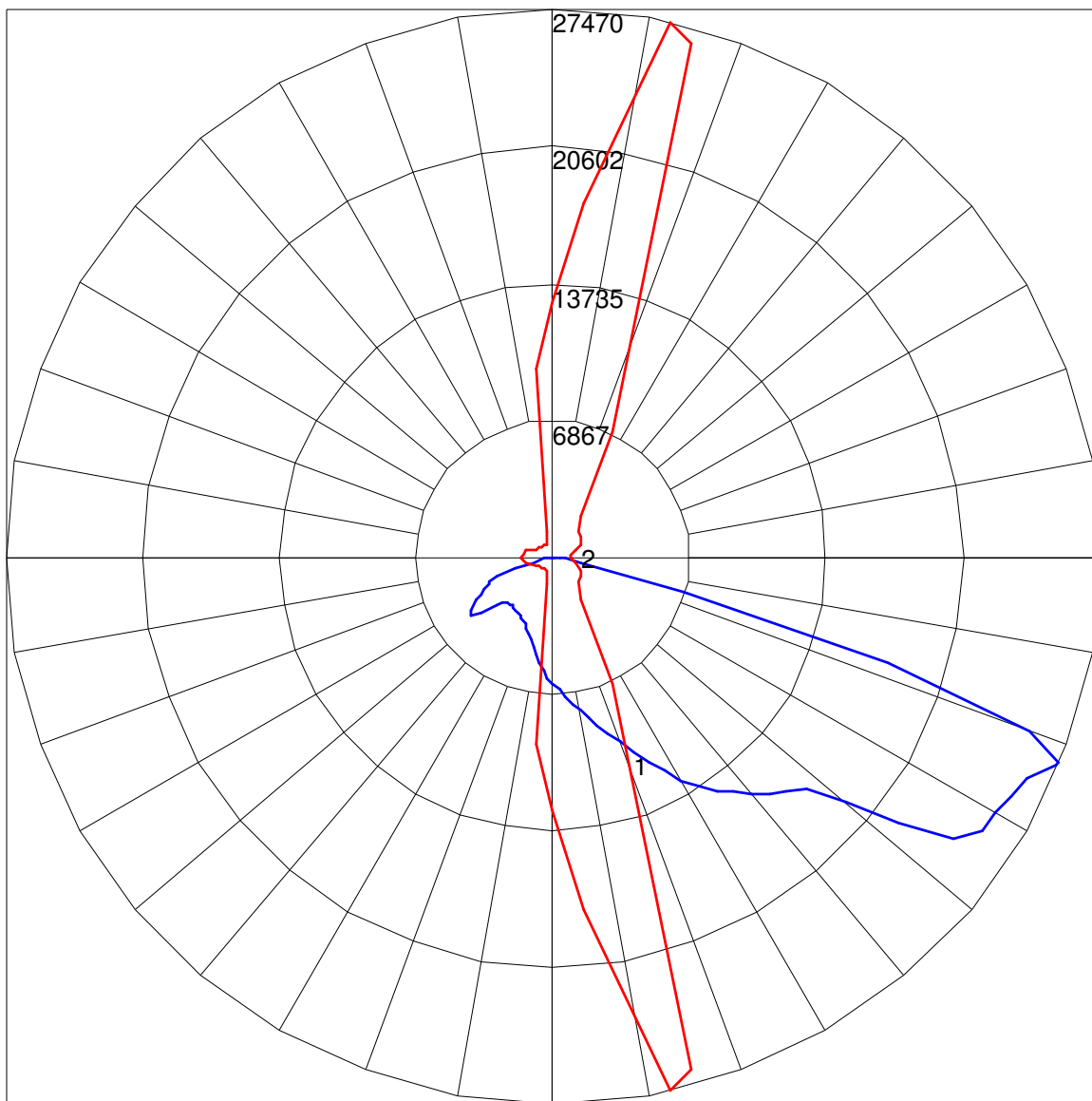
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

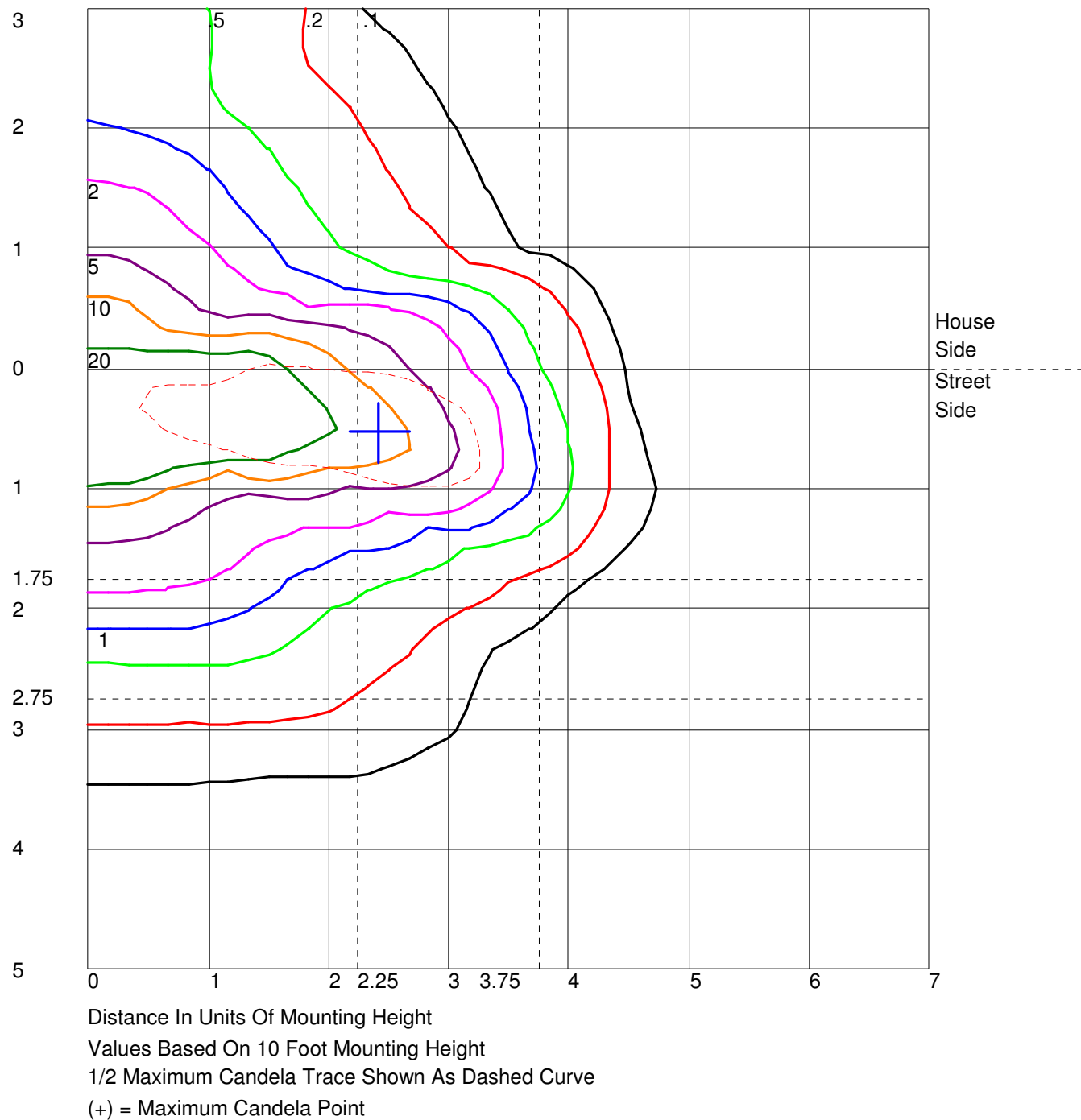
	Lumens	Percent Of Luminaire
Downward Street Side	21791.8	79.6
Downward House Side	5591.3	20.4
Downward Total	27383.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27383.1	100.0

POLAR GRAPH



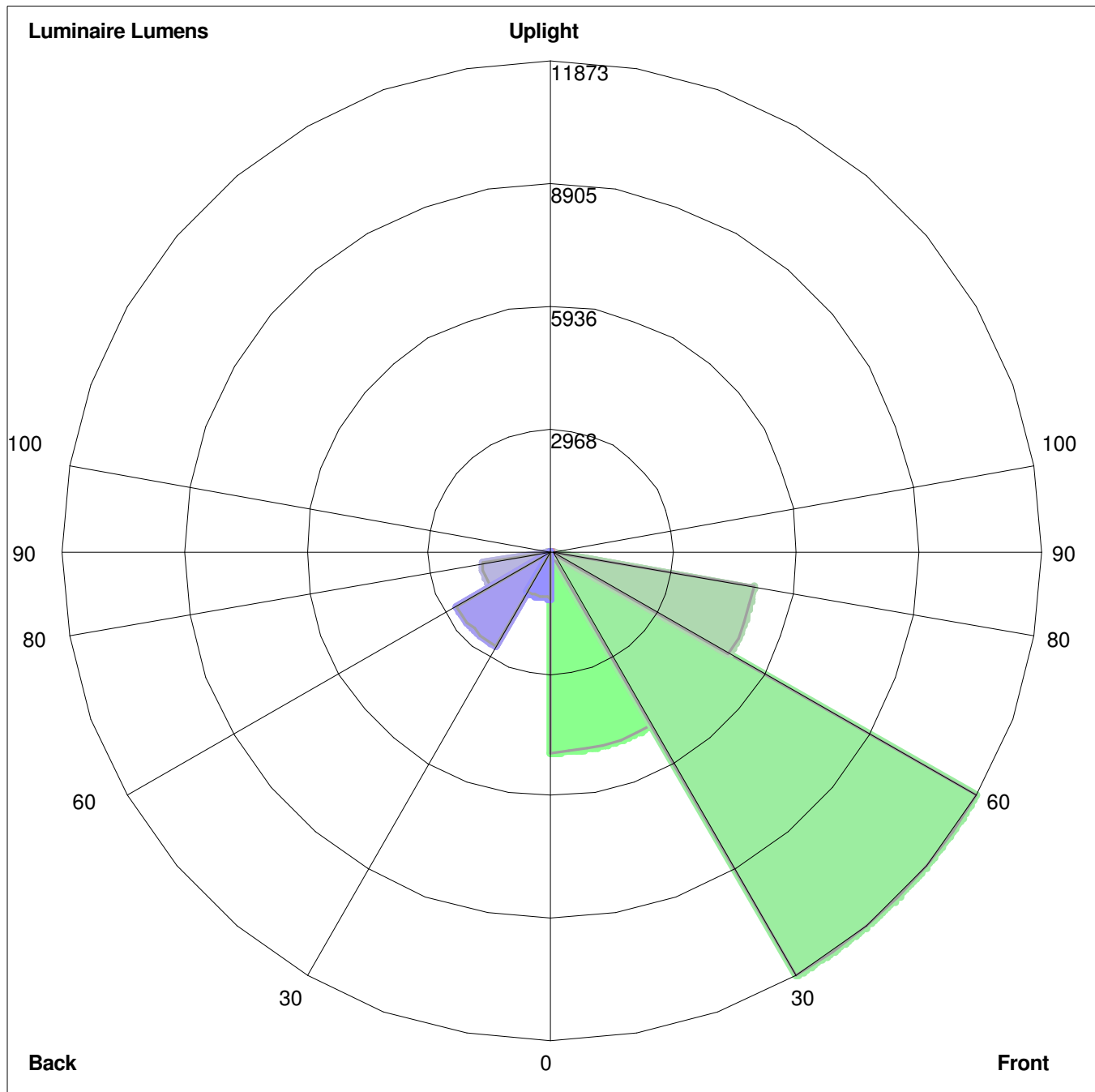
Maximum Candela = 27469.504 Located At Horizontal Angle = 77.5, Vertical Angle = 68  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low= 4870.0, Medium=11872.8, High=4978.2, Very High=70.8  
Back: Low=1131.1, Medium=2646.8, High=1701.5, Very High=111.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3