



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-740-T2-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011765  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L280-740-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	30091
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	30186.281
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	30186.281
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	1276.658 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L280-740-T2-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	5351.6	N.A.	17.8
FM - Front-Medium (30-60)	13047.0	N.A.	43.4
FH - Front-High (60-80)	5470.6	N.A.	18.2
FVH - Front-Very High (80-90)	77.8	N.A.	0.3
BL - Back-Low (0-30)	1243.0	N.A.	4.1
BM - Back-Medium (30-60)	2908.5	N.A.	9.7
BH - Back-High (60-80)	1869.7	N.A.	6.2
BVH - Back-Very High (80-90)	123.0	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	30091.2	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	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817
2.5	8331.937	8274.773	8234.123	8176.960	8093.119	7921.628	7797.138	7605.322	7391.911	7332.206
5.0	10153.556	10166.259	10059.553	9899.495	9649.244	9263.071	8893.412	8415.777	7892.411	7751.407
7.5	11967.553	11982.796	11826.549	11559.785	11165.990	10570.216	9982.064	9224.962	8403.074	8189.663
10.0	13513.515	13491.920	13320.429	13016.825	12564.597	11830.360	11059.284	10030.336	8908.656	8622.837
12.5	14200.751	14163.912	14085.153	13940.338	13655.789	12973.635	12102.205	10858.576	9439.644	9076.336
15.0	14129.614	14106.748	14104.207	14128.343	14135.965	13859.038	13081.611	11728.735	10035.417	9590.810
17.5	14083.883	14066.098	14066.098	14081.342	14170.263	14251.563	13898.418	12635.734	10712.490	10182.773
20.0	14074.990	14074.990	14125.803	14144.857	14176.615	14334.133	14440.839	13601.166	11487.377	10875.090
22.5	13794.253	13828.551	13994.961	14156.290	14251.563	14356.998	14721.576	14452.271	12328.320	11643.625
25.0	13042.232	13079.070	13378.863	13857.768	14240.130	14458.623	14877.824	15228.428	13251.832	12489.649
27.5	12028.527	12075.529	12396.916	13079.070	13956.852	14525.949	15046.774	15843.256	14189.318	13350.916
30.0	11219.343	11251.100	11573.758	12159.369	13214.993	14402.729	15239.861	16299.296	15111.560	14228.697
32.5	10704.869	10749.329	11027.526	11514.054	12393.105	14050.855	15452.002	16667.685	15998.234	15067.099
35.0	10201.827	10245.018	10560.054	11035.148	11765.574	13528.759	15646.359	16962.396	16733.741	15767.038
37.5	9415.508	9491.726	9874.088	10431.753	11224.424	13057.475	15909.312	17213.916	17326.974	16390.758
40.0	8231.583	8309.071	8812.113	9585.729	10492.727	12401.997	16350.108	17490.843	17889.719	17057.669
42.5	6770.731	6705.945	7258.528	8222.691	9492.997	11449.268	16470.787	18343.219	18410.545	17671.227
45.0	5223.498	5179.038	5557.589	6360.422	7927.980	10341.561	15753.065	19904.425	18872.936	18212.377
47.5	4209.794	4164.063	4353.339	4742.052	5895.490	8727.002	14363.350	21136.621	19880.289	19029.184
50.0	3718.186	3683.887	3741.051	3841.405	4310.148	6089.847	12609.057	21800.991	21879.750	21066.755
52.5	3492.071	3460.314	3469.206	3414.583	3594.966	4113.251	9647.974	22512.363	24999.622	24069.758
55.0	3132.575	3099.547	3246.902	3279.930	3315.499	3498.423	6190.201	22790.560	27827.323	27011.787
57.5	2733.698	2709.563	2881.054	3160.521	3240.551	3291.363	4756.026	21239.516	28722.889	28096.628
60.0	2370.391	2355.147	2532.990	2854.378	3104.628	3113.520	4423.205	18086.617	28435.800	28250.335
62.5	1953.731	1963.893	2195.089	2524.098	2787.051	2816.268	4134.846	14520.868	28175.387	28504.396
65.0	1543.422	1558.665	1816.538	2154.439	2403.419	2403.419	3631.805	11098.663	28082.655	28863.893
67.5	1056.895	1056.895	1370.660	1750.482	1991.840	1982.948	2961.083	8174.419	29205.605	30078.305
68.0	955.270	955.270	1242.359	1665.371	1908.000	1896.567	2812.457	7682.811	29361.853	30186.281
70.0	760.913	763.454	856.186	1319.848	1578.990	1568.828	2221.765	5922.167	27383.986	28040.734
72.5	593.233	603.395	671.992	887.944	1219.494	1239.819	1563.747	3735.970	19469.980	19459.817
75.0	444.607	453.499	513.204	624.991	943.837	1037.840	1028.948	1874.972	7822.544	7386.829
77.5	309.955	323.928	372.200	452.229	730.426	931.134	605.936	915.891	1633.614	1620.910
80.0	205.790	217.222	251.521	294.711	537.339	673.262	370.929	499.230	669.451	683.425
82.5	114.328	121.949	141.004	163.869	330.280	317.576	209.600	259.142	353.145	341.712
85.0	44.461	49.542	57.164	64.786	158.788	110.517	82.570	96.543	132.112	128.301
87.5	5.081	6.352	7.622	7.622	24.136	8.892	7.622	7.622	12.703	12.703
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	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817	6963.817
2.5	7173.418	7048.928	6909.194	6648.782	6395.991	6152.092	5913.274	5740.513	5607.131	5508.047
5.0	7343.639	7034.955	6716.108	6108.902	5524.561	4991.032	4523.560	4164.063	3897.299	3713.104
7.5	7511.319	7040.036	6545.887	5591.887	4715.376	3957.003	3354.878	2944.569	2684.157	2546.964
10.0	7698.054	7051.469	6385.828	5109.171	3984.950	3119.872	2601.587	2365.310	2272.577	2226.846
12.5	7919.088	7093.389	6260.068	4673.456	3372.662	2578.721	2299.254	2210.332	2163.331	2131.573
15.0	8171.878	7181.040	6173.687	4278.391	2884.865	2322.119	2193.818	2134.114	2094.735	2071.869
17.5	8495.806	7327.125	6130.497	3915.083	2550.774	2212.873	2125.222	2080.761	2051.544	2026.138
20.0	8906.115	7527.833	6127.956	3605.128	2366.580	2151.898	2075.680	2045.193	2024.868	1995.651
22.5	9340.560	7775.543	6164.795	3340.905	2270.037	2107.438	2040.111	2018.516	2010.894	1976.596
25.0	9811.843	8061.362	6233.391	3119.872	2212.873	2065.518	2012.165	1995.651	1994.380	1946.109

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**CANDELA TABULATION - (Cont.)**

27.5	10327.5888378.938	6324.854	2940.758	2164.601	2024.868	1979.137	1971.515	1960.082	1905.459
30.0	10859.8468700.326	6436.640	2795.943	2118.870	1980.407	1937.217	1933.406	1909.270	1855.917
32.5	11356.5369019.173	6544.616	2681.616	2076.950	1934.676	1887.675	1877.512	1835.592	1759.374
35.0	11785.8999273.234	6639.889	2586.343	2035.030	1887.675	1831.781	1791.131	1706.021	1622.181
37.5	12177.1539532.376	6738.973	2501.232	1979.137	1836.862	1745.400	1669.182	1581.531	1548.503
40.0	12635.7349862.656	6902.843	2441.528	1920.703	1763.185	1633.614	1533.259	1507.853	1488.799
42.5	13018.09610173.8817084.497	2405.960	1864.809	1665.371	1530.719	1431.635	1457.041	1457.041	
45.0	13444.91910529.5667299.178	2388.175	1803.835	1568.828	1415.121	1369.390	1408.769	1439.257	
47.5	13993.69111026.2567635.809	2402.149	1736.508	1492.610	1322.389	1314.767	1366.849	1403.688	
50.0	15449.46112374.0518607.593	2560.937	1683.155	1425.283	1296.982	1270.306	1327.470	1378.282	
52.5	17979.91114712.68410603.2443104.628	1620.910	1330.010	1291.901	1220.764	1305.875	1375.741		
55.0	20133.08016441.57012203.8303410.772	1498.961	1224.575	1173.763	1172.492	1299.523	1387.174		
57.5	20044.15816191.32012205.1003155.440	1336.362	1119.140	1088.652	1142.005	1296.982	1377.012		
60.0	19486.49415542.19411599.1642632.074	1185.195	1036.570	1030.218	1117.869	1270.306	1323.659		
62.5	19085.07714928.63611091.0422219.225	1055.624	965.433	974.325	1086.112	1206.791	1238.548		
65.0	18997.42614517.05710845.8731909.270	942.567	889.214	917.161	1030.218	1110.247	1182.655		
67.5	19510.63014157.56010524.4851598.045	838.402	806.644	859.997	954.000	1026.407	1436.716		
68.0	19530.95514003.85310429.2121524.367	819.347	790.130	846.024	936.216	1020.056	1534.530		
70.0	17992.61412064.0969075.066	1277.928	745.670	726.615	793.941	861.267	1101.355	1932.135	
72.5	13395.3777996.576	5923.437	879.052	659.289	654.208	717.723	762.184	1443.068	2299.254
75.0	4857.650	3307.877	2508.854	611.017	566.556	589.422	635.153	664.370	1758.103
77.5	1158.519	899.377	668.181	417.931	444.607	496.690	544.961	590.692	1728.886
80.0	527.177	444.607	359.497	283.278	323.928	395.065	436.985	492.879	1276.658
82.5	292.170	265.494	222.304	174.032	217.222	276.927	307.414	339.172	738.048
85.0	109.246	100.354	92.732	77.489	110.517	139.734	156.248	168.951	360.767
87.5	8.892	6.352	8.892	8.892	21.595	30.487	36.839	45.731	110.517
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

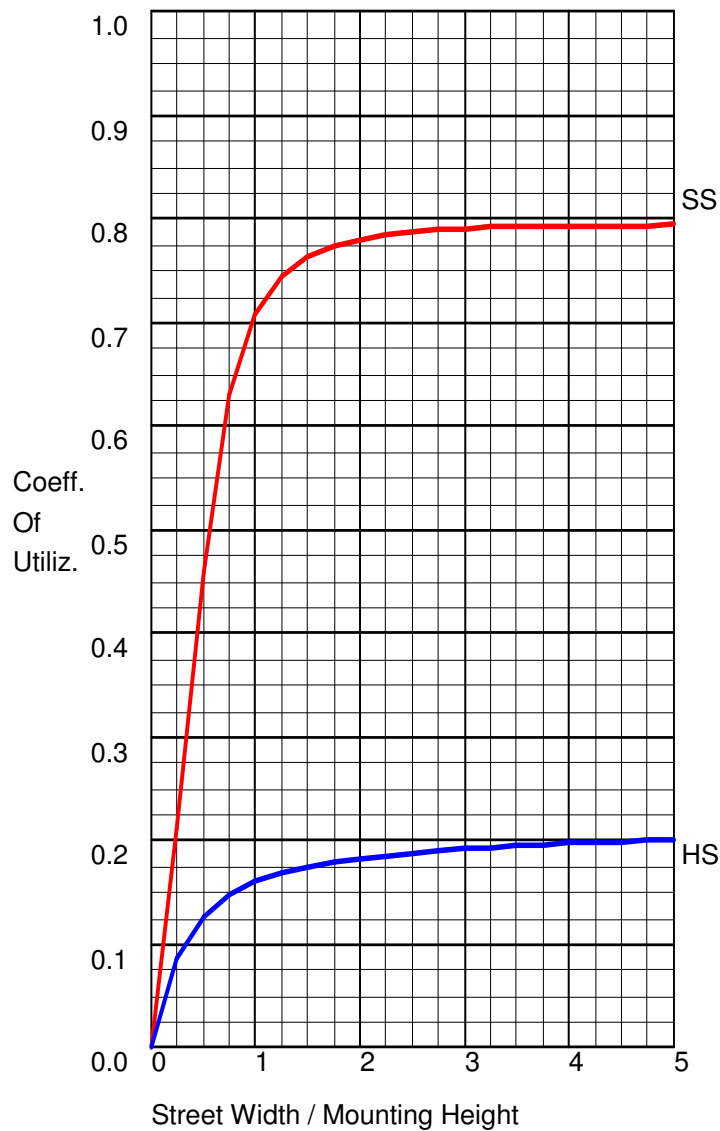
	<u>175.0</u>	<u>180.0</u>
0.0	6963.817	6963.817
2.5	5458.505	5514.398
5.0	3617.831	3657.211
7.5	2494.881	2511.395
10.0	2211.603	2203.981
12.5	2120.141	2115.059
15.0	2057.896	2055.355
17.5	2012.165	2008.354
20.0	1977.866	1974.056
22.5	1951.190	1944.838
25.0	1911.811	1906.729
27.5	1866.080	1867.350
30.0	1803.835	1798.753
32.5	1683.155	1675.534
35.0	1585.342	1586.612
37.5	1537.070	1551.044
40.0	1479.906	1491.339
42.5	1420.202	1425.283
45.0	1403.688	1379.552
47.5	1368.120	1355.416
50.0	1343.984	1359.227
52.5	1364.309	1384.634
55.0	1390.985	1411.310
57.5	1389.715	1408.769
60.0	1345.254	1361.768

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**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	1272.847	1294.442
<b>65.0</b>	1280.468	1330.010
<b>67.5</b>	1594.234	1665.371
<b>68.0</b>	1667.912	1739.049
<b>70.0</b>	1902.918	1972.785
<b>72.5</b>	2037.571	2090.924
<b>75.0</b>	1768.266	1769.536
<b>77.5</b>	1256.333	1209.331
<b>80.0</b>	830.780	778.698
<b>82.5</b>	500.501	473.824
<b>85.0</b>	175.302	139.734
<b>87.5</b>	26.676	7.622
<b>90.0</b>	0.000	0.000

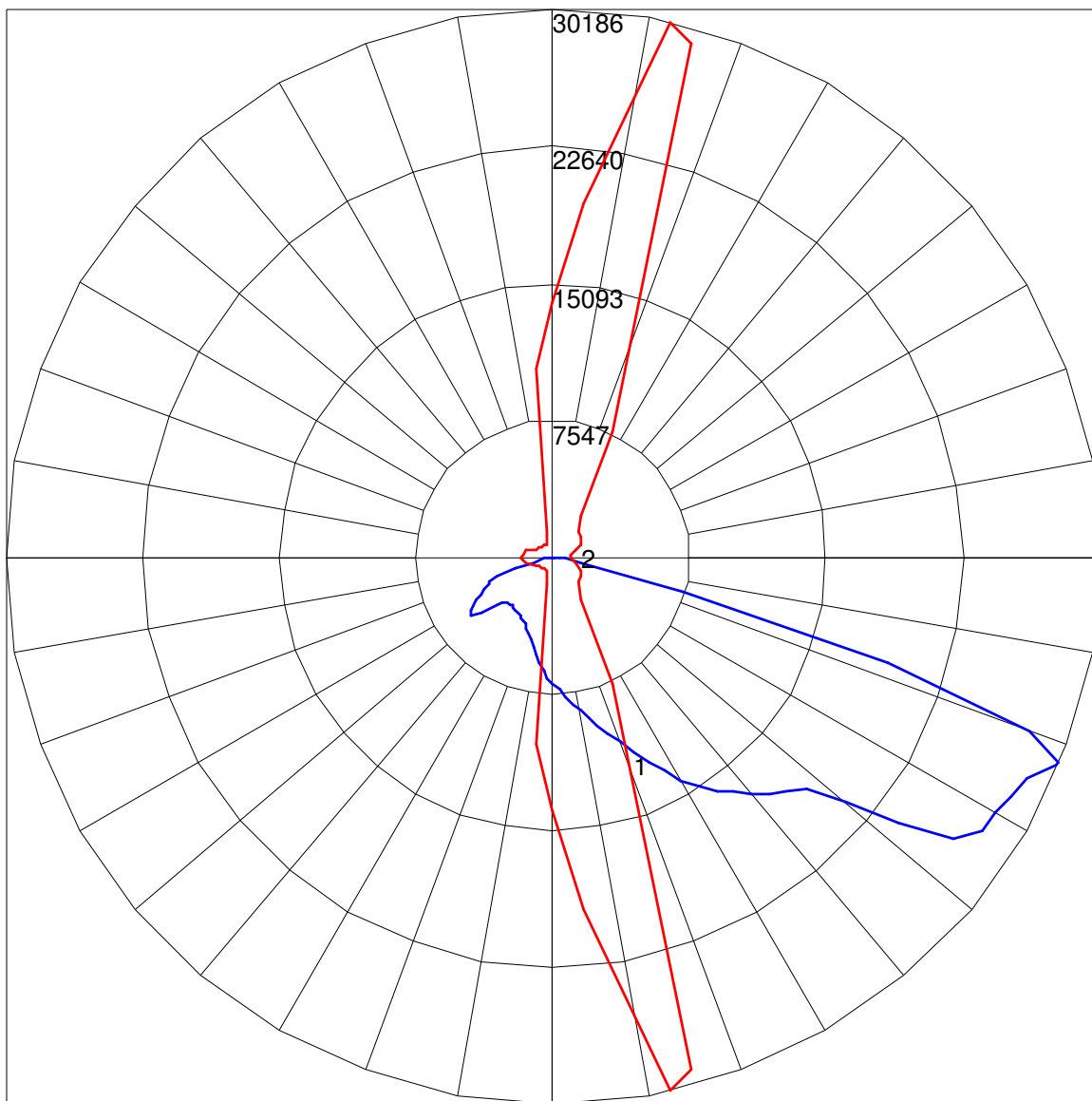
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

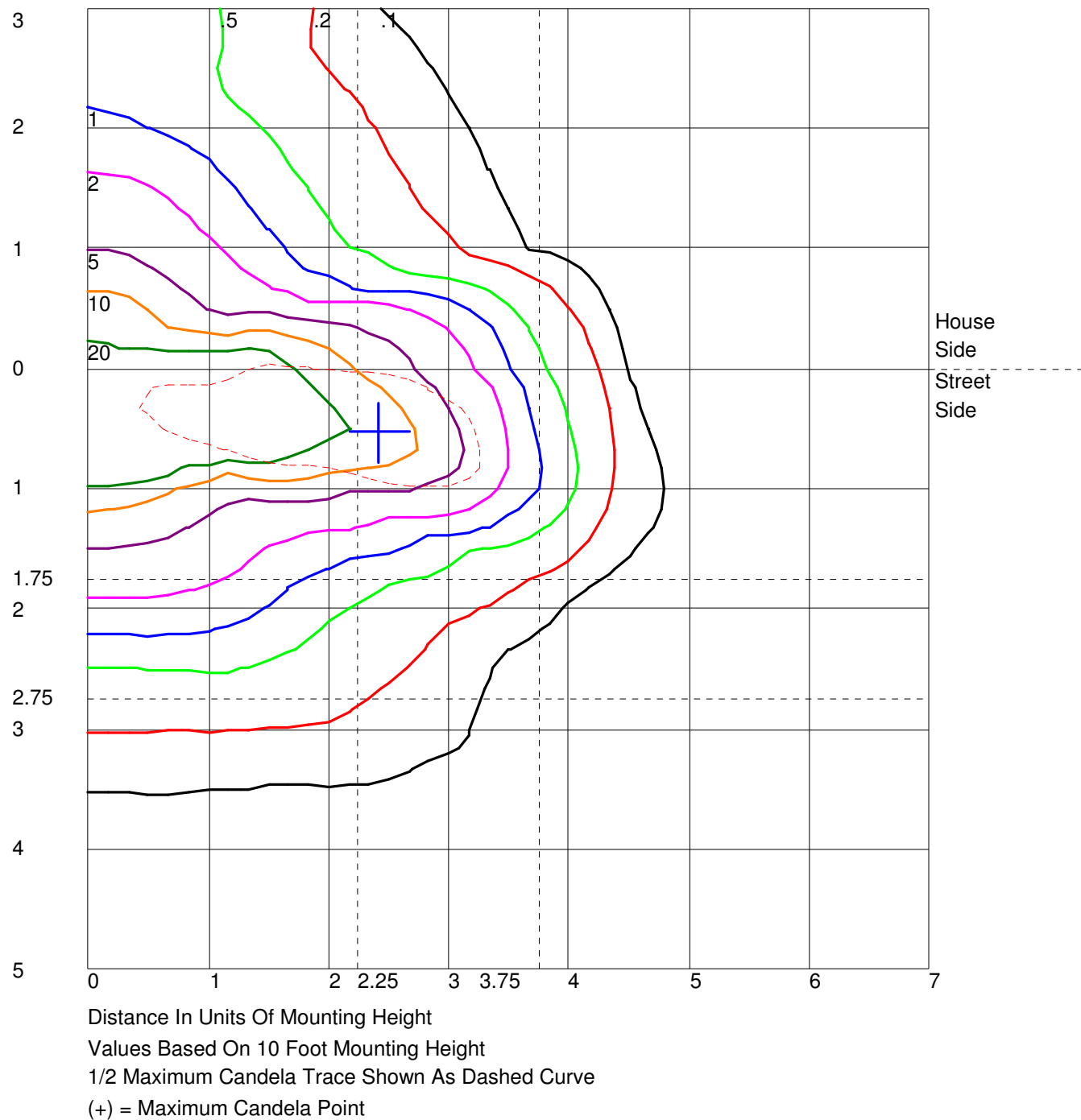
	Lumens	Percent Of Luminaire
Downward Street Side	23947.0	79.6
Downward House Side	6144.3	20.4
Downward Total	30091.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30091.3	100.0

POLAR GRAPH



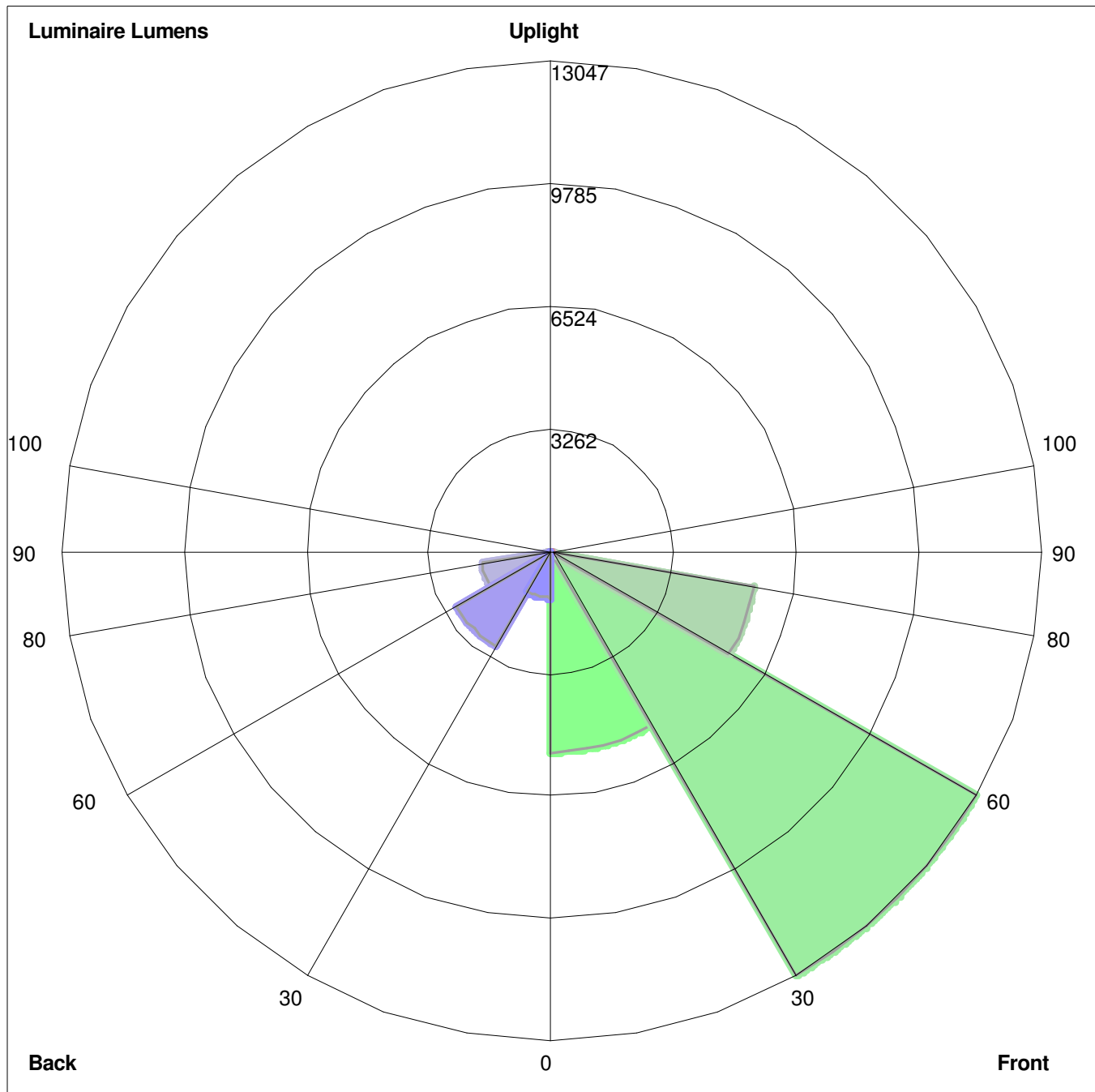
Maximum Candela = 30186.281 Located At Horizontal Angle = 77.5, Vertical Angle = 68  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=5351.6, Medium= 13047.0, High=5470.6, Very High=77.8  
Back: Low= 1243.0, Medium=2908.5, High=1869.7, Very High=123.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3