



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-730-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-L380-730-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	36906
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	37022.801
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	37022.801
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	1565.792 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-730-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	6563.7	N.A.	17.8
FM - Front-Medium (30-60)	16001.9	N.A.	43.4
FH - Front-High (60-80)	6709.5	N.A.	18.2
FVH - Front-Very High (80-90)	95.4	N.A.	0.3
BL - Back-Low (0-30)	1524.5	N.A.	4.1
BM - Back-Medium (30-60)	3567.2	N.A.	9.7
BH - Back-High (60-80)	2293.2	N.A.	6.2
BVH - Back-Very High (80-90)	150.8	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	36906.2	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	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967
2.5	10218.93510148.82510098.96910028.8599926.031	9715.700	9563.016	9327.758	9066.014	8992.788				
5.0	12453.11012468.69012337.81812141.51011834.58311360.95110907.57210321.7639679.866	9506.928								
7.5	14677.93714696.63314504.99914177.81813694.83812964.13512242.78011314.21010306.18310044.439									
10.0	16574.02516547.53916337.20915964.84615410.19814509.67313563.96512301.98410926.26810575.718									
12.5	17416.90417371.72217275.12617097.51416748.52115911.87414843.08513317.80111577.51311131.924									
15.0	17329.65617301.61217298.49617328.09817337.44616997.80216044.30514385.03212308.21611762.915									
17.5	17273.56817251.75617251.75617270.45217379.51217479.22417046.10015497.44613138.63112488.944									
20.0	17262.66217262.66217324.98217348.35217387.30217580.49517711.36716681.52714089.01213338.055									
22.5	16918.34416960.41017164.50817362.37417479.22417608.53918055.68517725.38915120.40914280.646									
25.0	15996.00616041.18916408.87716996.24417465.20217733.17918247.31918677.32816253.07715318.276									
27.5	14752.72114810.36715204.54116041.18917117.76817815.75318454.53419431.40117402.88216374.601									
30.0	13760.27413799.22414194.95614913.19516207.89517664.62718691.35019990.72418533.99217451.180									
32.5	13129.28313183.81313525.01514121.73015199.86717233.06018951.53620442.54419621.47718479.462									
35.0	12512.31412565.28612951.67113534.36314430.21416592.72119189.91120804.00120523.56019337.921									
37.5	11547.91111641.39112110.35012794.31213766.50616014.70319512.41721112.48521251.14720102.900									
40.0	10095.85310190.89110807.86011756.68312869.09615210.77320053.04421452.12921941.34220920.851									
42.5	8304.151 8224.693 8902.423 10084.94711642.94914042.27220201.05422497.54922580.12321673.366									
45.0	6406.504 6351.974 6816.259 7800.916 9723.490 12683.69419320.78324412.33323147.23622337.075									
47.5	5163.219 5107.131 5339.273 5816.021 7230.687 10703.47417616.32925923.59524382.73123338.870									
50.0	4560.272 4518.206 4588.316 4711.398 5286.301 7469.062 15464.72826738.43026835.02625837.905									
52.5	4282.947 4243.997 4254.903 4187.909 4409.146 5044.810 11833.02527610.91130661.47929521.022									
55.0	3842.033 3801.525 3982.253 4022.761 4066.385 4290.737 7592.144 27952.11434129.59233129.354									
57.5	3352.820 3323.218 3533.549 3876.309 3974.463 4036.783 5833.159 26049.79335227.98334459.888									
60.0	2907.232 2888.536 3106.656 3500.830 3807.757 3818.663 5424.963 22182.83234875.87534648.406									
62.5	2396.207 2408.671 2692.227 3095.750 3418.256 3454.090 5071.296 17809.52134556.48434960.007									
65.0	1892.972 1911.668 2227.943 2642.371 2947.740 2947.740 4454.328 13612.26334442.75035400.921									
67.5	1296.258 1296.258 1681.084 2146.927 2442.947 2432.041 3631.703 10025.74335820.02436890.371									
68.0	1171.618 1171.618 1523.726 2042.541 2340.119 2326.097 3449.416 9422.796 36011.65837022.801									
70.0	933.243 936.359 1050.093 1618.764 1936.596 1924.132 2724.945 7263.405 33585.84934391.336									
72.5	727.587 740.051 824.183 1089.043 1495.682 1520.610 1917.900 4582.084 23879.49723867.033									
75.0	545.301 556.207 629.433 766.537 1157.595 1272.888 1261.982 2299.611 9594.176 9059.782									
77.5	380.152 397.291 456.495 554.649 895.851 1142.015 743.167 1123.319 2003.591 1988.011									
80.0	252.396 266.418 308.484 361.456 659.035 825.741 454.937 612.295 821.067 838.205									
82.5	140.220 149.568 172.938 200.982 405.081 389.500 257.070 317.832 433.125 419.103									
85.0	54.530 60.762 70.110 79.458 194.750 135.546 101.270 118.408 162.032 157.358									
87.5	6.232 7.790 9.348 9.348 29.602 10.906 9.348 9.348 15.580 15.580									
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	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967	8540.967
2.5	8798.037	8645.353	8473.973	8154.582	7844.540	7545.404	7252.499	7040.611	6877.021	6755.497
5.0	9006.810	8628.215	8237.157	7492.432	6775.751	6121.390	5548.045	5107.131	4779.950	4554.040
7.5	9212.466	8634.447	8028.384	6858.325	5783.303	4853.176	4114.683	3611.449	3292.058	3123.794
10.0	9441.492	8648.469	7832.076	6266.284	4887.452	3826.453	3190.788	2901.000	2787.266	2731.177
12.5	9712.584	8699.883	7677.834	5731.889	4136.495	3162.744	2819.984	2710.923	2653.277	2614.327
15.0	10022.6278807.385	7571.890	5247.351	3538.223	2848.028	2690.669	2617.443	2569.145	2541.101	
17.5	10419.9178986.556	7518.918	4801.762	3128.468	2714.039	2606.537	2552.007	2516.173	2485.013	
20.0	10923.1529232.720	7515.802	4421.610	2902.558	2639.255	2545.775	2508.383	2483.455	2447.621	
22.5	11455.9899536.530	7560.984	4097.545	2784.150	2584.725	2502.151	2475.665	2466.317	2424.251	
25.0	12034.0079887.081	7645.116	3826.453	2714.039	2533.311	2467.875	2447.621	2446.063	2386.859	

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CANDELA TABULATION - (Cont.)

27.5	12666.55610276.5817757.292	3606.775	2654.835	2483.455	2427.367	2418.019	2403.997	2337.003
30.0	13319.35910670.7567894.396	3429.162	2598.747	2428.925	2375.953	2371.279	2341.677	2276.241
32.5	13928.53811061.8148026.826	3288.942	2547.333	2372.837	2315.191	2302.727	2251.313	2157.833
35.0	14455.14311373.4158143.676	3172.092	2495.919	2315.191	2246.639	2196.783	2092.397	1989.569
37.5	14935.00711691.2478265.201	3067.706	2427.367	2252.871	2140.695	2047.215	1939.712	1899.204
40.0	15497.44612096.3278466.183	2994.480	2355.699	2162.507	2003.591	1880.508	1849.348	1825.978
42.5	15966.40412478.0388688.977	2950.856	2287.147	2042.541	1877.392	1755.868	1787.028	1787.028
45.0	16489.89312914.2798952.279	2929.044	2212.363	1924.132	1735.614	1679.526	1727.824	1765.216
47.5	17162.95013523.4579365.150	2946.182	2129.789	1830.652	1621.880	1612.532	1676.410	1721.592
50.0	18948.42015176.49710557.0223140.932	2064.353	1748.078	1590.720	1558.002	1628.112	1690.432	
52.5	22051.96018044.77913004.6433807.757	1988.011	1631.228	1584.488	1497.240	1601.626	1687.316	
55.0	24692.77420165.22014967.7254183.235	1838.442	1501.914	1439.594	1438.036	1593.836	1701.338	
57.5	24583.71319858.29314969.2833870.077	1639.018	1372.600	1335.208	1400.644	1590.720	1688.874	
60.0	23899.75119062.15414226.1163228.180	1453.616	1271.330	1263.540	1371.042	1558.002	1623.438	
62.5	23407.42218309.63913602.9152721.829	1294.700	1184.082	1194.988	1332.092	1480.102	1519.052	
65.0	23299.92017804.84713302.2212341.677	1156.037	1090.601	1124.877	1263.540	1361.694	1450.500	
67.5	23929.35317363.93212908.0471959.967	1028.281	989.331	1054.767	1170.059	1258.866	1762.100	
68.0	23954.28117175.41412791.1961869.602	1004.911	969.077	1037.629	1148.247	1251.076	1882.066	
70.0	22067.54014796.34511130.3661567.350	914.547	891.177	973.751	1056.325	1350.788	2369.721	
72.5	16429.1319807.623 7264.963 1078.137	808.603	802.371	880.271	934.801	1769.890	2819.984	
75.0	5957.800 4057.037 3077.054 749.399	694.869	722.913	779.001	814.835	2156.275	2743.642	
77.5	1420.898 1103.065 819.509 512.583	545.301	609.179	668.383	724.471	2120.441	2062.795	
80.0	646.571 545.301 440.915 347.434	397.291	484.539	535.953	604.505	1565.792	1385.064	
82.5	358.340 325.622 272.650 213.446	266.418	339.644	377.036	415.987	905.199	803.929	
85.0	133.988 123.082 113.734 95.038	135.546	171.380	191.634	207.214	442.473	384.826	
87.5	10.906 7.790 10.906 10.906	26.486	37.392	45.182	56.088	135.546	84.132	
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

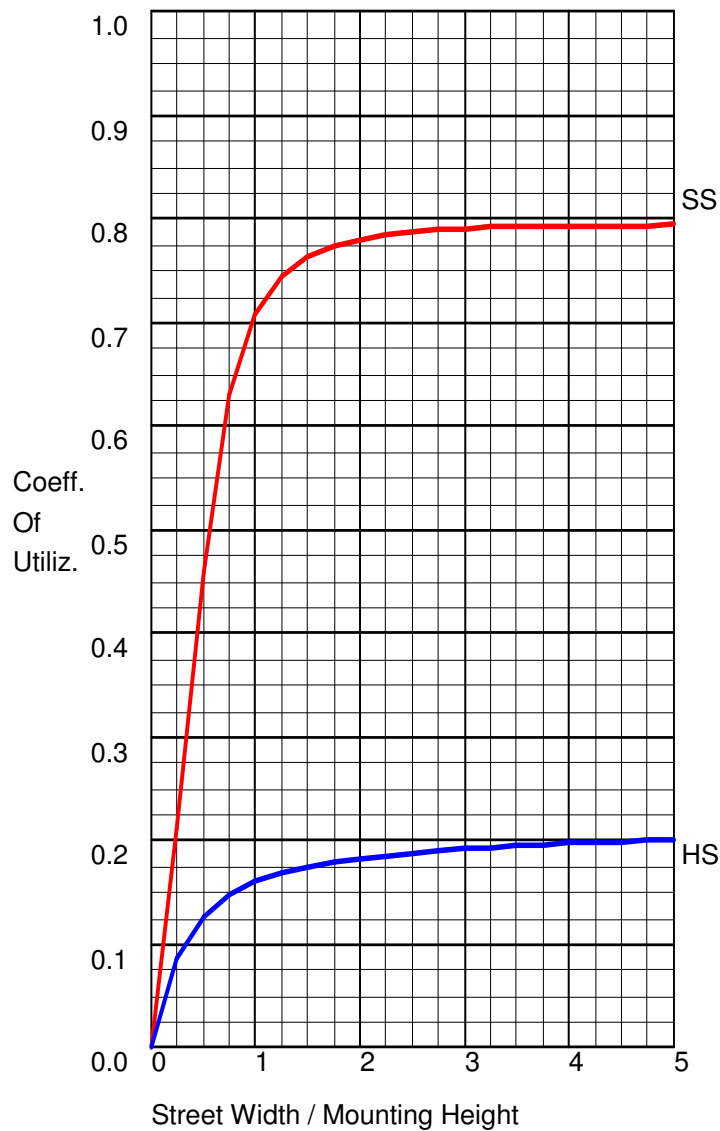
	<u>175.0</u>	<u>180.0</u>
0.0	8540.967	8540.967
2.5	6694.735	6763.287
5.0	4437.190	4485.488
7.5	3059.916	3080.170
10.0	2712.481	2703.133
12.5	2600.305	2594.073
15.0	2523.963	2520.847
17.5	2467.875	2463.201
20.0	2425.809	2421.135
22.5	2393.091	2385.301
25.0	2344.793	2338.561
27.5	2288.705	2290.263
30.0	2212.363	2206.131
32.5	2064.353	2055.005
35.0	1944.386	1945.944
37.5	1885.182	1902.320
40.0	1815.072	1829.094
42.5	1741.846	1748.078
45.0	1721.592	1691.990
47.5	1677.968	1662.388
50.0	1648.366	1667.062
52.5	1673.294	1698.222
55.0	1706.012	1730.940
57.5	1704.454	1727.824
60.0	1649.924	1670.178

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CANDELA TABULATION - (Cont.)

62.5	1561.118	1587.604
65.0	1570.466	1631.228
67.5	1955.293	2042.541
68.0	2045.657	2132.905
70.0	2333.887	2419.577
72.5	2499.035	2564.471
75.0	2168.739	2170.297
77.5	1540.864	1483.218
80.0	1018.933	955.055
82.5	613.853	581.135
85.0	215.004	171.380
87.5	32.718	9.348
90.0	0.000	0.000

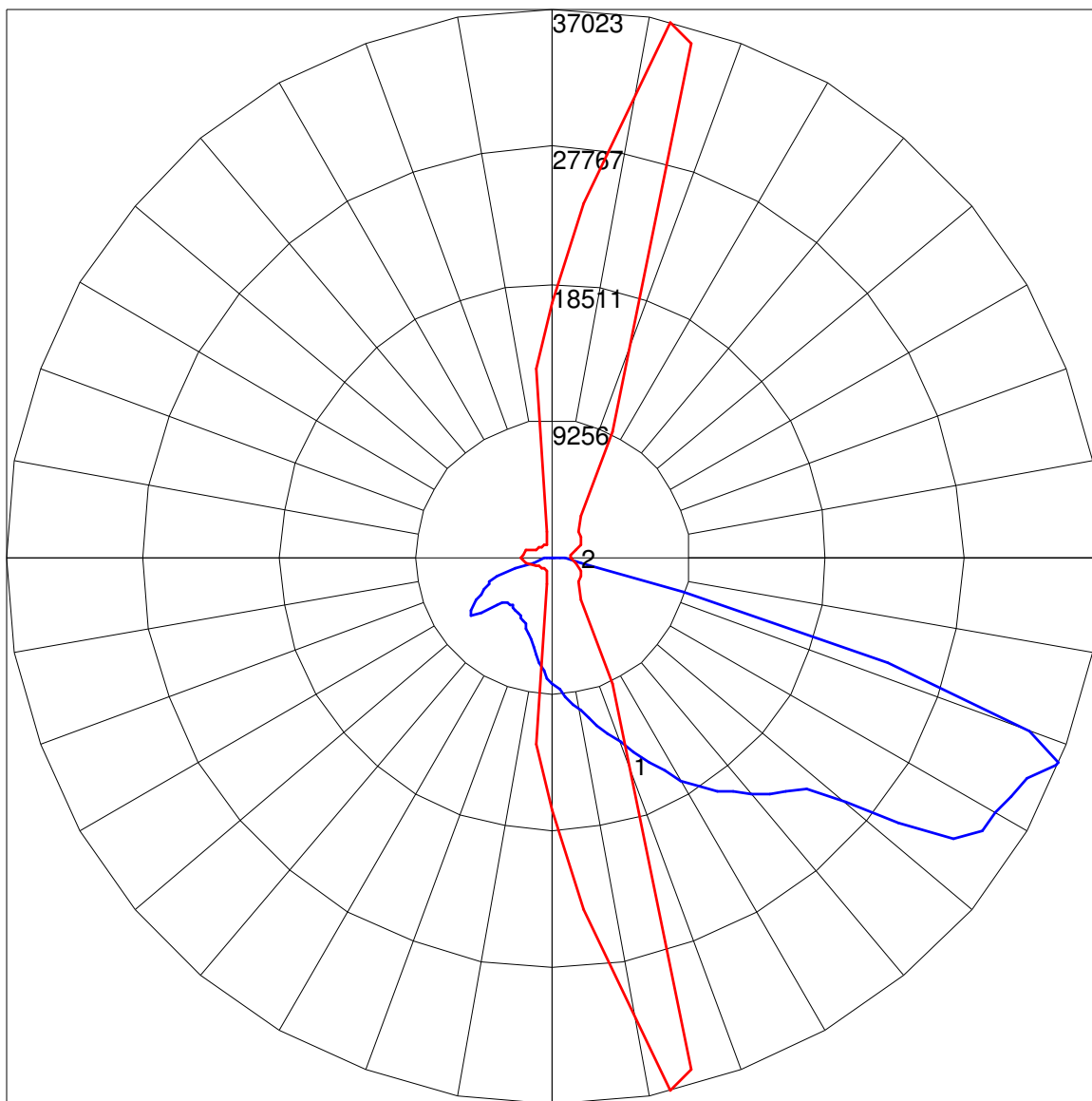
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

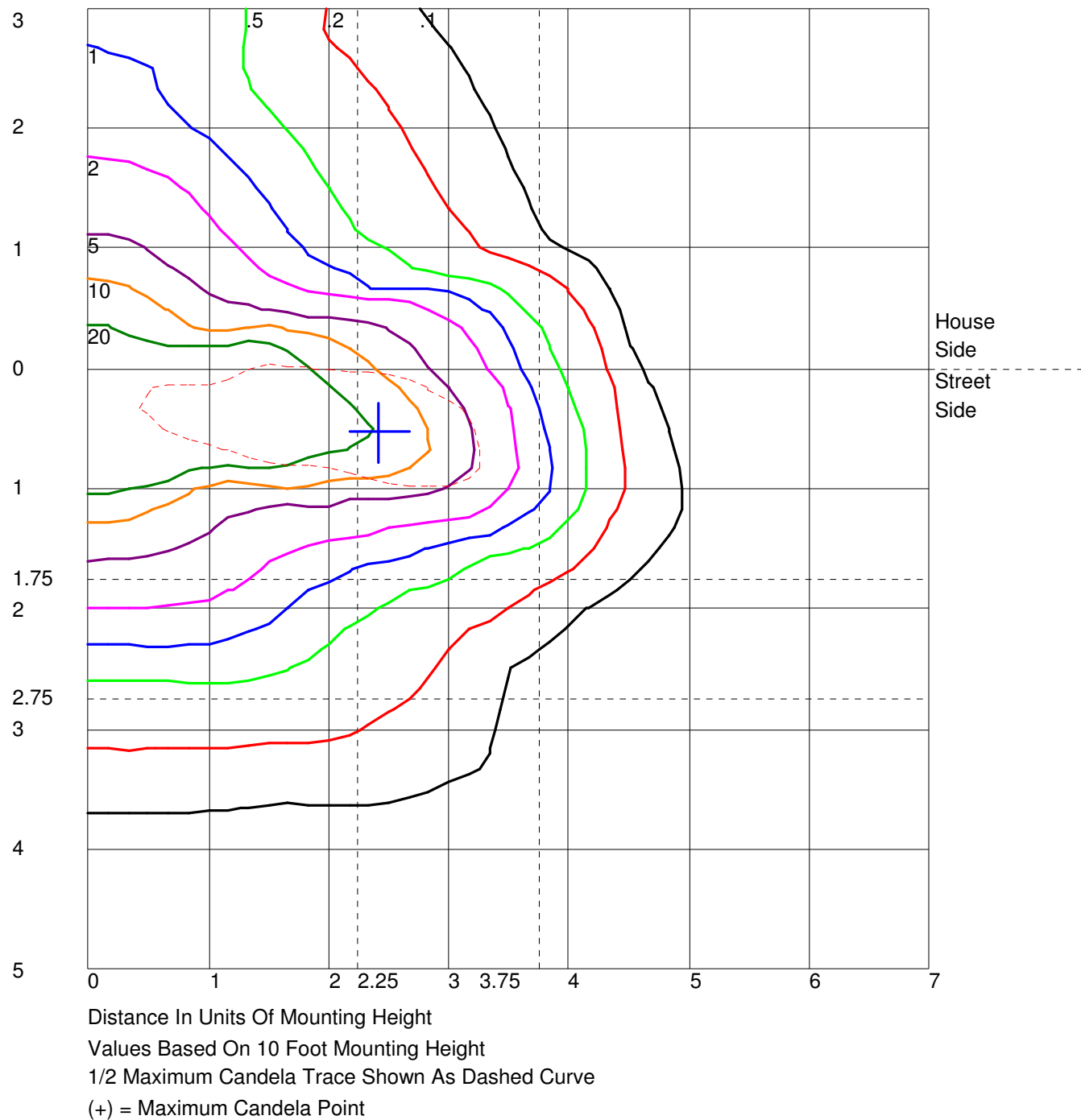
	Lumens	Percent Of Luminaire
Downward Street Side	29370.5	79.6
Downward House Side	7535.8	20.4
Downward Total	36906.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	36906.3	100.0

POLAR GRAPH

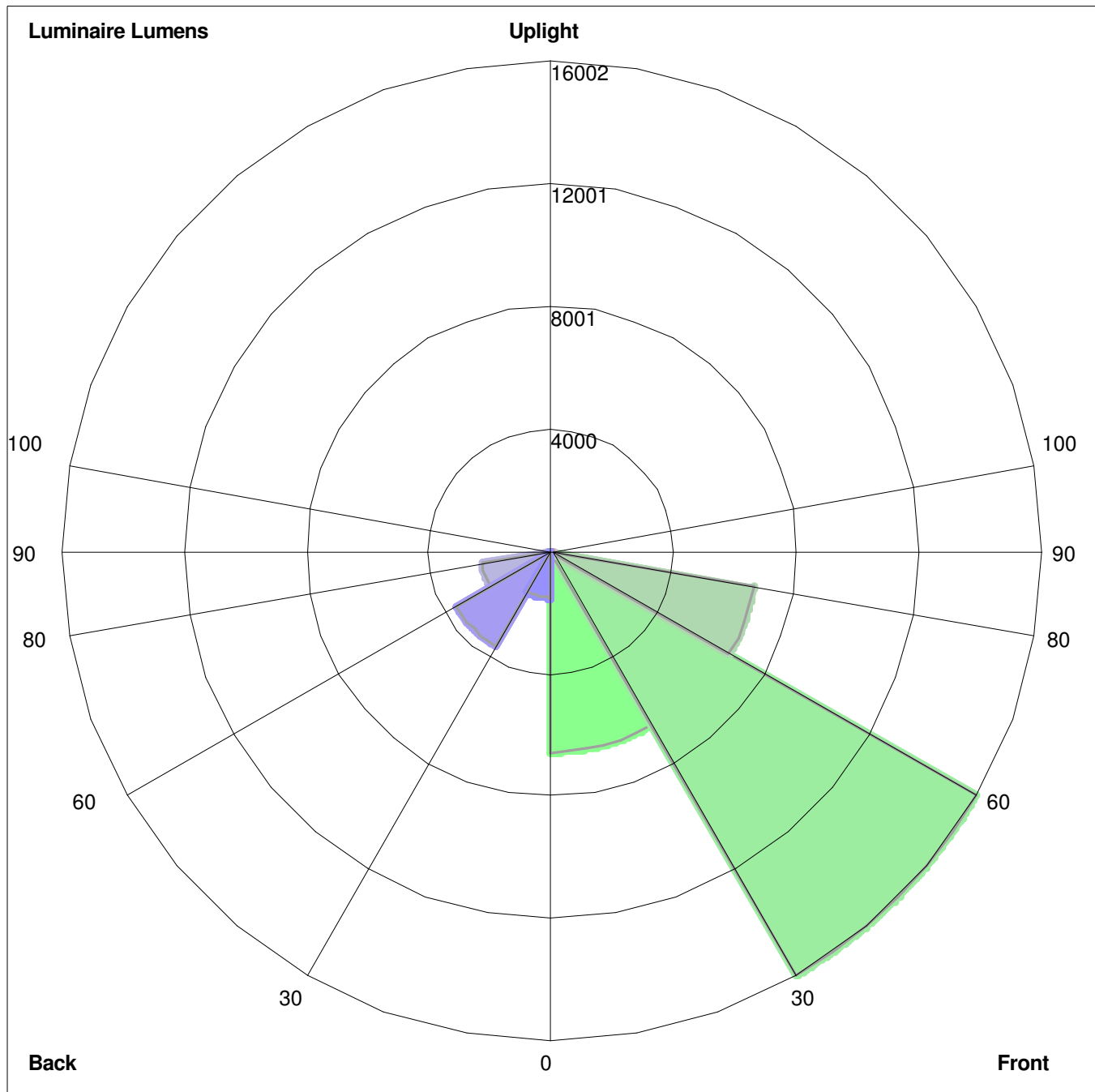


Maximum Candela = 37022.801 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=6563.7, Medium=16001.9, High=6709.5, Very High=95.4
Back: Low=1524.5, Medium=3567.2, High=2293.2, Very High=150.8
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3