



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-750-T2-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011765
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L380-750-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	41773
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	41904.934
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	41904.934
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	1772.27 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-750-T2-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	7429.2	N.A.	17.8
FM - Front-Medium (30-60)	18112.0	N.A.	43.4
FH - Front-High (60-80)	7594.3	N.A.	18.2
FVH - Front-Very High (80-90)	108.0	N.A.	0.3
BL - Back-Low (0-30)	1725.6	N.A.	4.1
BM - Back-Medium (30-60)	4037.7	N.A.	9.7
BH - Back-High (60-80)	2595.6	N.A.	6.2
BVH - Back-Very High (80-90)	170.7	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	41773.1	N.A.	100.0
BUG Rating	B4-U0-G4		

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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	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249
2.5	11566.488	11487.133	11430.702	11351.347	11234.959	10996.893	10824.075	10557.793	10261.533	10178.651
5.0	14095.280	14112.914	13964.784	13742.589	13395.189	12859.099	12345.935	11682.876	10956.334	10760.590
7.5	16613.491	16634.652	16417.747	16047.422	15500.752	14673.692	13857.214	12806.196	11665.242	11368.982
10.0	18759.613	18729.634	18491.568	18070.103	17442.314	16423.038	15352.622	13924.225	12367.096	11970.319
12.5	19713.641	19662.501	19553.167	19352.133	18957.120	18010.146	16800.417	15073.996	13104.219	12599.872
15.0	19614.888	19583.146	19579.619	19613.124	19623.705	19239.272	18160.039	16281.962	13931.279	13314.070
17.5	19551.403	19526.715	19526.715	19547.877	19671.318	19784.179	19293.939	17541.067	14871.199	14135.839
20.0	19539.059	19539.059	19609.597	19636.049	19680.136	19898.804	20046.934	18881.291	15946.906	15096.921
22.5	19149.336	19196.949	19427.962	19651.920	19784.179	19930.546	20436.657	20062.805	17114.311	16163.810
25.0	18105.372	18156.512	18572.687	19237.509	19768.308	20071.622	20653.562	221140.275	18396.342	17338.270
27.5	16698.137	16763.384	17209.538	18156.512	19375.058	20165.085	20888.101	21993.786	19697.770	18533.891
30.0	15574.817	15618.903	16066.820	16879.772	18345.202	19994.030	21156.146	22626.866	20978.037	19752.437
32.5	14860.618	14922.339	15308.536	15983.938	17204.248	19505.554	21450.642	223138.267	22208.927	20916.316
35.0	14162.291	14222.248	14659.585	15319.116	16333.102	18780.775	21720.451	23547.388	23229.962	1887.979
37.5	13070.714	13176.521	13707.320	14481.476	15581.871	18118.126	20322085.485	23896.552	224053.499	22753.834
40.0	11427.175	11534.746	12233.074	13307.016	14566.122	17216.592	222697.404	24280.984	24834.709	23679.647
42.5	9399.205	9309.268	10076.370	11414.831	13178.284	15894.002	22864.932	225464.261	25557.724	24531.395
45.0	7251.319	7189.598	7715.107	8829.609	11005.710	14356.271	21868.581	27631.545	26199.621	25282.626
47.5	5844.083	5780.599	6043.353	6582.970	8184.185	12114.922	19939.363	29342.095	27598.040	26416.526
50.0	5161.627	5114.014	5193.369	5332.682	5983.396	8453.994	17504.035	30264.381	30373.715	29245.105
52.5	4847.732	4803.646	4815.990	4740.162	4990.572	5710.061	13393.426	31251.914	34704.755	33413.908
55.0	4348.675	4302.825	4507.386	4553.236	4602.612	4856.550	8593.307	31638.110	38630.202	37498.065
57.5	3794.951	3761.445	3999.511	4387.471	4498.569	4569.107	6602.368	29484.934	39873.436	39004.054
60.0	3290.603	3269.442	3516.325	3962.479	4309.879	4322.223	6140.343	25108.044	39474.896	39217.431
62.5	2712.191	2726.298	3047.247	3503.981	3869.016	3909.575	5740.040	20158.031	39113.388	39570.122
65.0	2142.595	2163.757	2521.738	2990.816	3336.453	3336.453	5041.712	15407.289	38984.656	40069.179
67.5	1467.193	1467.193	1902.766	2430.038	2765.094	2752.750	4110.609	11347.820	40543.548	41755.040
68.0	1326.117	1326.117	1724.657	2311.887	2648.706	2632.835	3904.285	10665.364	40760.453	41904.934
70.0	1056.308	1059.835	1188.567	1832.228	2191.972	2177.864	3084.279	8221.218	38014.756	38926.462
72.5	823.533	837.640	932.867	1232.654	1692.915	1721.130	2170.811	5186.315	27028.444	27014.337
75.0	617.209	629.553	712.435	867.619	1310.246	1440.741	1428.397	2602.857	10859.344	10254.479
77.5	430.283	449.681	516.692	627.789	1013.985	1292.611	841.167	1271.450	2267.801	2250.166
80.0	285.679	301.550	349.164	409.121	745.941	934.630	514.928	693.037	929.340	948.738
82.5	158.711	169.291	195.743	227.485	458.498	440.863	290.970	359.744	490.240	474.369
85.0	61.721	68.775	79.355	89.936	220.432	153.420	114.624	134.022	183.399	178.109
87.5	7.054	8.817	10.581	10.581	33.506	12.344	10.581	10.581	17.635	17.635
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	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249	9667.249
2.5	9958.219	9785.401	9591.421	9229.913	8878.986	8540.403	8208.874	7969.044	7783.882	7646.332
5.0	10194.522	9766.003	9323.376	8480.446	7669.257	6928.607	6279.656	5780.599	5410.274	5154.573
7.5	10427.298	9773.057	9087.073	7762.720	6545.938	5493.156	4657.279	4087.684	3726.176	3535.723
10.0	10686.525	9788.928	8864.878	7092.608	5531.952	4331.041	3611.552	3283.549	3154.817	3091.333
12.5	10993.366	9847.122	8690.296	6487.744	4681.968	3579.810	3191.850	3068.408	3003.160	2959.074
15.0	11344.293	9968.800	8570.382	5939.310	4004.802	3223.592	3045.483	2962.601	2907.934	2876.192
17.5	11793.974	10171.597	8510.424	5434.962	3541.014	3071.935	2950.257	2888.536	2847.977	2812.708
20.0	12363.569	10450.223	8506.897	5004.680	3285.313	2987.289	2881.482	2839.159	2810.944	2770.385
22.5	12966.670	10794.096	8558.037	4637.881	3151.291	2925.569	2832.106	2802.127	2791.546	2743.933
25.0	13620.911	11190.873	8653.264	4331.041	3071.935	2867.375	2793.310	2770.385	2768.621	2701.610

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CANDELA TABULATION - (Cont.)

27.5	14336.87311631.7368780.233	4082.394	3004.924	2810.944	2747.460	2736.879	2721.008	2645.180
30.0	15075.76012077.8908935.416	3881.360	2941.440	2749.223	2689.266	2683.975	2650.470	2576.405
32.5	15765.27012520.5169085.310	3722.649	2883.246	2685.739	2620.491	2606.384	2548.190	2442.382
35.0	16361.31712873.2079217.569	3590.390	2825.052	2620.491	2542.899	2486.469	2368.317	2251.929
37.5	16904.46113232.9519355.118	3472.239	2747.460	2549.953	2422.984	2317.177	2195.499	2149.649
40.0	17541.06713691.4499582.604	3389.357	2666.341	2447.673	2267.801	2128.488	2093.219	2066.767
42.5	18071.86614123.4959834.777	3339.980	2588.749	2311.887	2124.961	1987.412	2022.681	2022.681
45.0	18664.38714617.26210132.8013315.292	2504.103	2177.864	1964.487	1901.002	1955.669	1997.992	1997.992
47.5	19426.19815306.77210600.1163334.690	2410.640	2072.057	1835.755	1825.174	1897.475	1948.616	1948.616
50.0	21447.11517177.79611949.1583555.121	2336.575	1978.594	1800.486	1763.453	1842.808	1913.347	1913.347
52.5	24959.91420424.31314719.5424309.879	2250.166	1846.335	1793.432	1694.678	1812.830	1909.820	1909.820
55.0	27948.96722824.37216941.4934734.871	2080.875	1699.969	1629.431	1627.667	1804.012	1925.691	1925.691
57.5	27825.52522476.97216943.2564380.417	1855.153	1553.602	1511.279	1585.344	1800.486	1911.583	1911.583
60.0	27051.36921575.84816102.0893653.875	1645.302	1438.978	1430.160	1551.839	1763.453	1837.518	1837.518
62.5	26494.11820724.10015396.7083080.752	1465.429	1340.224	1352.568	1507.752	1675.280	1719.367	1719.367
65.0	26372.44020152.74115056.3622650.470	1308.482	1234.417	1273.213	1430.160	1541.258	1641.775	1641.775
67.5	27084.87519653.68414610.2082218.424	1163.879	1119.793	1193.858	1324.353	1424.870	1994.465	1994.465
68.0	27113.09019440.30614477.9492116.144	1137.427	1096.868	1174.460	1299.665	1416.053	2130.251	2130.251
70.0	24977.54816747.51312598.1081774.034	1035.147	1008.695	1102.158	1195.621	1528.914	2682.212	2682.212
72.5	18595.61211100.9378222.981	1220.309	915.232	908.178	996.351	1058.072	2003.283	3191.850
75.0	6743.444	4592.032	3482.820	848.221	786.500	818.242	881.727	922.286
77.5	1608.269	1248.525	927.576	580.176	617.209	689.510	756.521	820.006
80.0	731.833	617.209	499.057	393.250	449.681	548.434	606.628	684.220
82.5	405.594	368.562	308.604	241.593	301.550	384.433	426.756	470.842
85.0	151.657	139.313	128.732	107.571	153.420	193.980	216.905	234.539
87.5	12.344	8.817	12.344	12.344	29.979	42.323	51.140	63.484
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

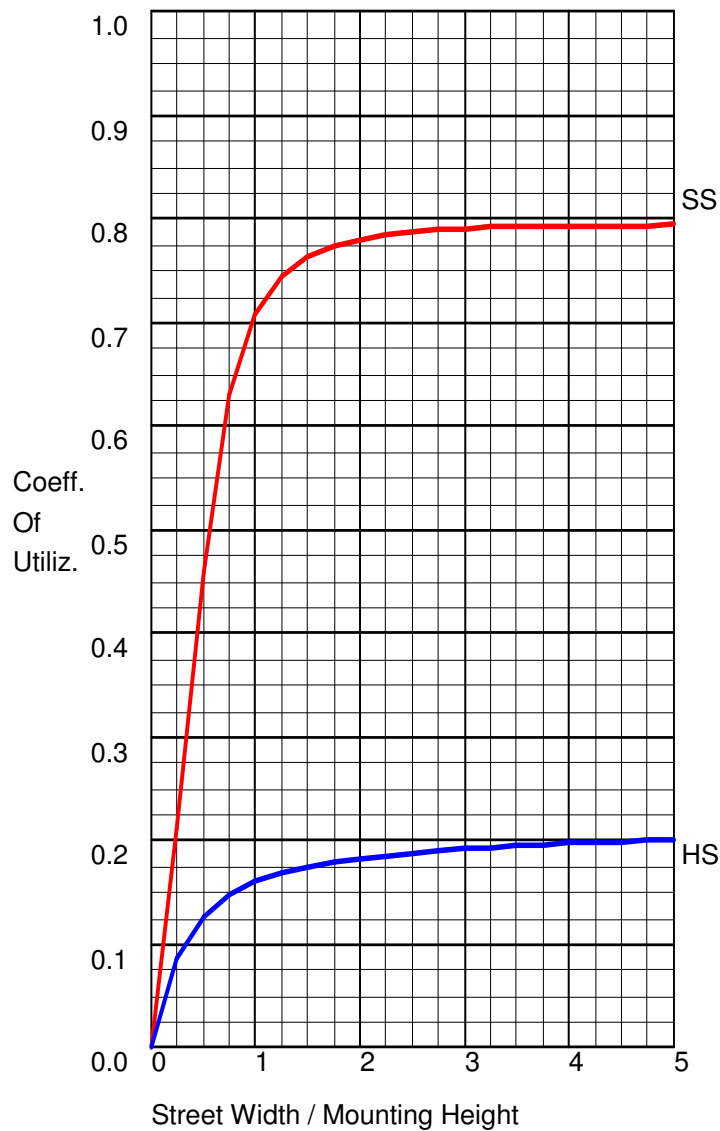
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	9667.249	9667.249
2.5	7577.558	7655.150
5.0	5022.314	5076.981
7.5	3463.422	3486.347
10.0	3070.172	3059.591
12.5	2943.203	2936.149
15.0	2856.794	2853.267
17.5	2793.310	2788.019
20.0	2745.696	2740.406
22.5	2708.664	2699.847
25.0	2653.997	2646.943
27.5	2590.512	2592.276
30.0	2504.103	2497.049
32.5	2336.575	2325.995
35.0	2200.789	2202.553
37.5	2133.778	2153.176
40.0	2054.423	2070.294
42.5	1971.540	1978.594
45.0	1948.616	1915.110
47.5	1899.239	1881.604
50.0	1865.733	1886.895
52.5	1893.949	1922.164
55.0	1930.981	1959.196
57.5	1929.218	1955.669
60.0	1867.497	1890.422

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-750-T2-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	1766.980	1796.959
65.0	1777.561	1846.335
67.5	2213.134	2311.887
68.0	2315.414	2414.167
70.0	2641.653	2738.643
72.5	2828.579	2902.644
75.0	2454.727	2456.490
77.5	1744.055	1678.807
80.0	1153.298	1080.997
82.5	694.800	657.768
85.0	243.357	193.980
87.5	37.033	10.581
90.0	0.000	0.000

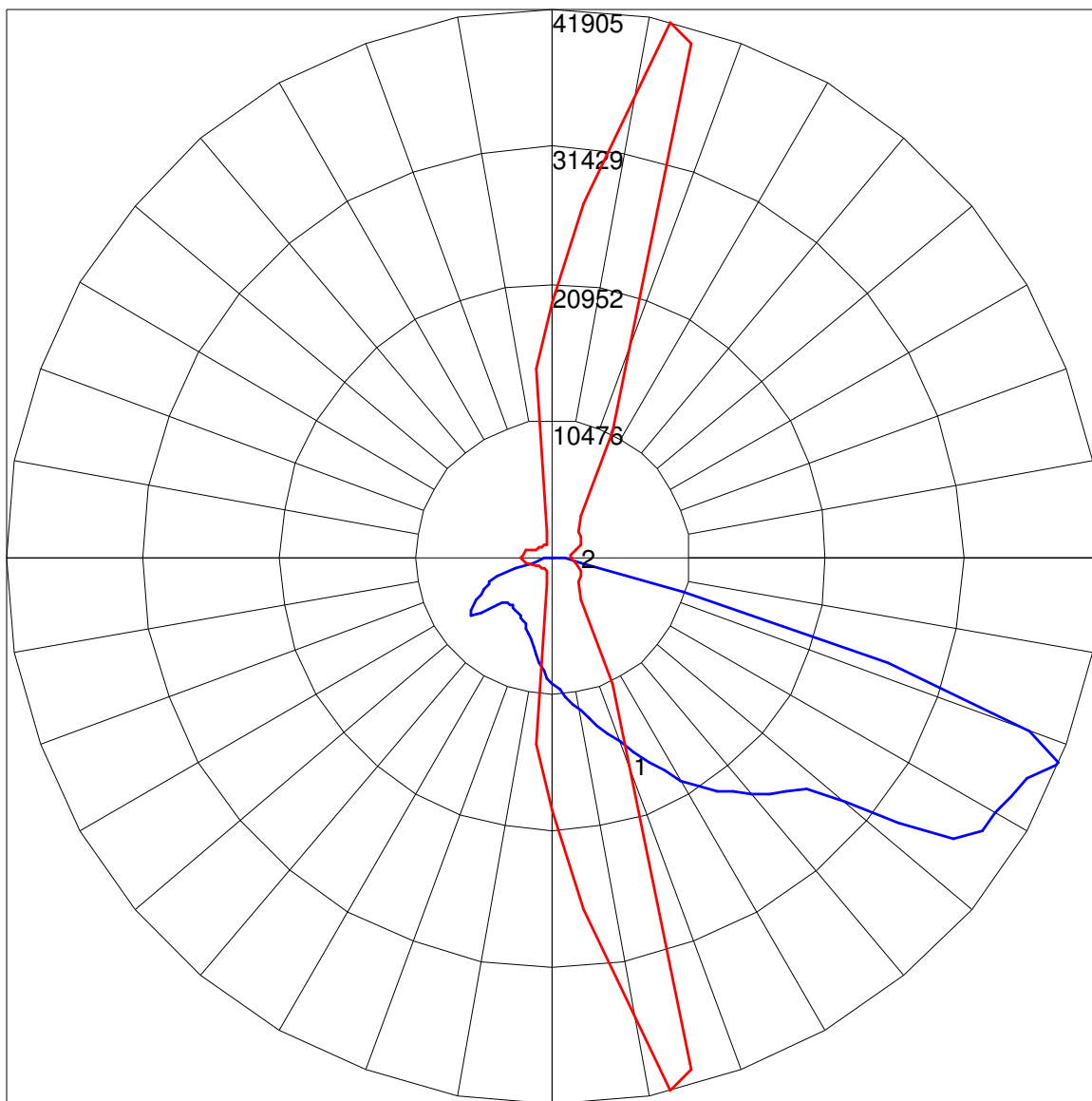
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

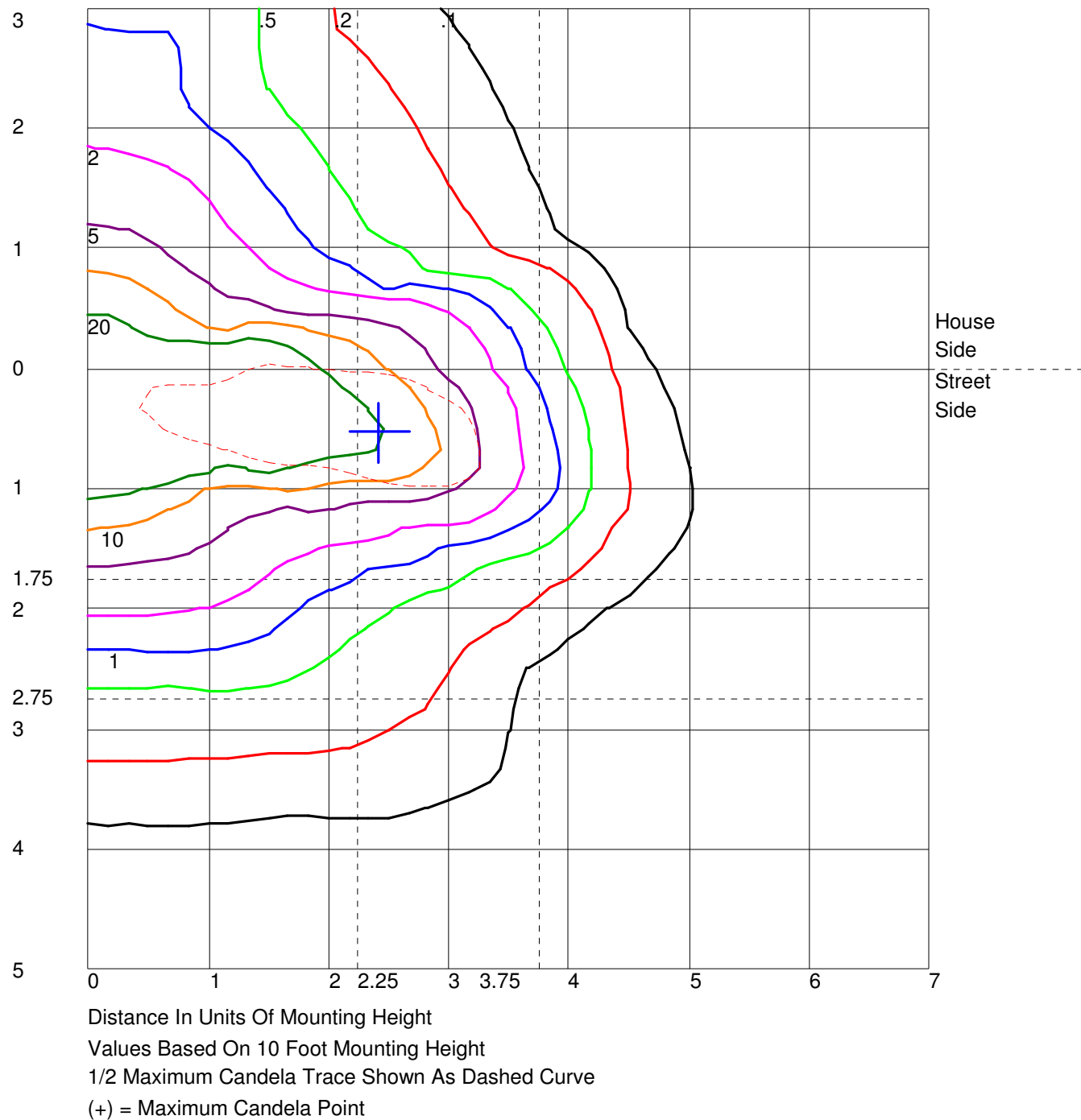
	Lumens	Percent Of Luminaire
Downward Street Side	33243.5	79.6
Downward House Side	8529.6	20.4
Downward Total	41773.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	41773.1	100.0

POLAR GRAPH

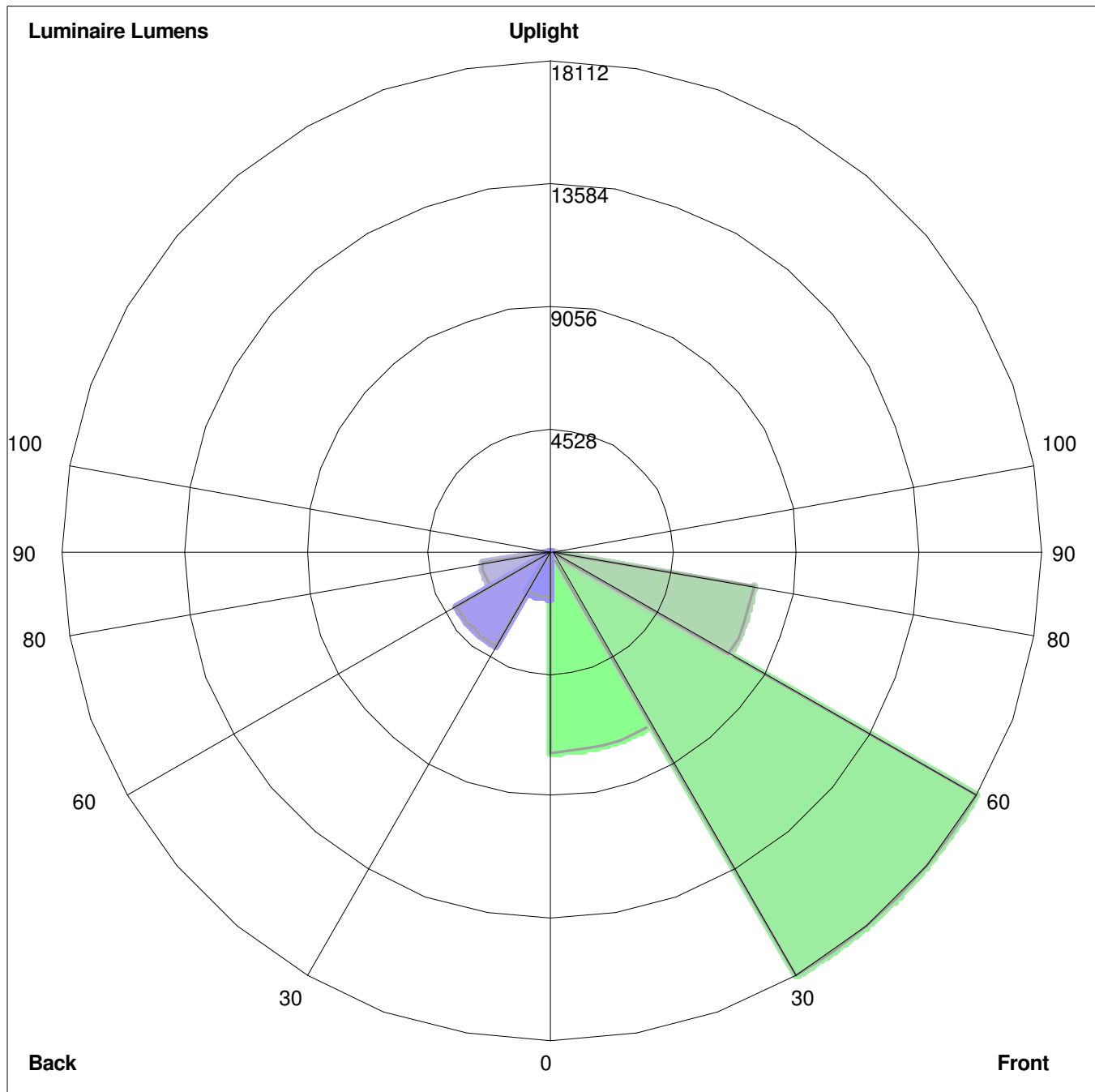


Maximum Candela = 41904.934 Located At Horizontal Angle = 77.5, Vertical Angle = 68
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=7429.2, Medium= 18112.0, High=7594.3, Very High=108.0
Back: Low=1725.6, Medium=4037.7, High=2595.6, Very High=170.7
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4