



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-740-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L380-740-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE III OPTICS, CLEAR LENS,
[MORE] (2) LED MODULES AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[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	39407
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	29110.885
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	29110.885
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	6758.504 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-740-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3917.0	N.A.	9.9
FM - Front-Medium (30-60)	13699.8	N.A.	34.8
FH - Front-High (60-80)	9707.6	N.A.	24.6
FVH - Front-Very High (80-90)	324.8	N.A.	0.8
BL - Back-Low (0-30)	2108.9	N.A.	5.4
BM - Back-Medium (30-60)	4855.9	N.A.	12.3
BH - Back-High (60-80)	4347.7	N.A.	11.0
BVH - Back-Very High (80-90)	445.4	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	39407.1	N.A.	100.0
BUG Rating	B4-U0-G4		

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PHOTOMETRIC FILENAME : VA2-L380-740-T3-F-S-XXX-DIM-UNV_.IES

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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403
2.5	8486.818	8472.355	8472.355	8486.818	8446.322	8411.611	8407.272	8379.793	8356.652	8308.925
5.0	8832.481	8839.712	8832.481	8820.910	8768.844	8712.439	8682.067	8592.397	8563.471	8443.429
7.5	8890.332	8904.795	8903.349	8913.473	8914.919	8907.688	8893.225	8790.538	8763.059	8585.166
10.0	8835.373	8838.266	8835.373	8855.621	8890.332	8945.291	8997.358	8951.076	8932.275	8741.365
12.5	8818.018	8818.018	8799.216	8815.125	8857.068	8929.382	9024.837	9050.870	9058.102	8901.903
15.0	8893.225	8878.762	8846.944	8831.034	8864.299	8939.506	9045.085	9126.077	9143.433	9072.565
17.5	9037.854	9040.746	8998.804	8949.630	8942.399	8998.804	9104.383	9218.640	9235.995	9250.458
20.0	9233.103	9241.780	9204.177	9147.772	9123.185	9128.970	9225.871	9354.591	9380.624	9454.385
22.5	9389.302	9416.781	9389.302	9374.839	9358.930	9356.037	9429.798	9538.269	9578.765	9664.096
25.0	9520.914	9523.806	9513.682	9548.393	9614.923	9633.724	9684.344	9752.320	9801.494	9866.577
27.5	9648.187	9625.047	9591.782	9655.419	9826.081	9951.908	9982.280	10002.528	10024.222	10061.826
30.0	9759.551	9742.196	9700.254	9704.592	9933.106	10280.215	10340.959	10304.802	10284.554	10268.645
32.5	9775.461	9762.444	9778.353	9823.188	10012.652	10588.274	10744.473	10615.754	10582.489	10446.538
35.0	9749.427	9746.535	9804.386	9947.569	10262.860	10876.086	11200.054	11019.268	10916.582	10620.093
37.5	9688.683	9681.452	9781.246	10119.677	10690.961	111253.567	11716.379	11456.047	11281.046	10737.242
40.0	9575.873	9601.906	9758.105	10427.736	11645.511	12453.986	12419.275	11926.091	11703.362	10864.515
42.5	9525.253	9555.625	9700.254	10365.546	11898.611	13687.670	13888.704	12887.872	12449.647	11066.996
45.0	9979.387	9986.619	9917.197	10352.529	11681.668	13635.603	15047.180	14487.467	14005.853	11700.470
47.5	10949.846	10935.383	10878.978	10974.433	11729.396	13261.015	15167.222	15509.992	15340.777	13256.676
50.0	10906.458	10876.086	11202.947	11833.528	12422.168	13168.452	14666.807	15468.050	15418.876	13981.266
52.5	10113.892	10132.694	10769.060	11862.454	13261.015	1513861.224	14405.028	14932.923	14974.866	13676.099
55.0	7974.832	8077.518	9402.318	11599.230	13919.076	15699.456	15184.578	15112.263	15191.809	13966.803
57.5	5879.161	5996.310	7344.250	10326.496	14112.878	18176.947	17351.117	16211.442	16120.326	14629.203
60.0	4641.138	4717.791	5520.481	7499.003	12776.508	20250.924	21708.783	18257.940	17923.847	15820.944
62.5	3595.472	3572.331	3990.309	4898.577	9677.113	19497.408	26766.452	21830.271	20813.530	17644.713
65.0	2528.111	2551.252	2795.675	3219.437	5759.119	17404.630	27686.291	26533.599	24899.294	19976.130
67.5	2182.449	2195.465	2489.062	2606.211	3042.990	11962.248	25168.304	29110.885	28117.285	21643.700
70.0	1741.331	1700.835	2094.225	2275.011	2248.978	5348.373	20747.001	27054.263	27771.622	22310.439
72.5	1238.023	1194.634	1345.048	1916.332	1729.760	2775.427	13298.618	21650.931	23092.880	20865.597
75.0	944.426	932.856	958.889	1465.090	1389.883	1684.926	5763.458	14504.822	15980.036	14898.213
77.5	632.028	626.243	650.830	966.120	1164.262	1125.212	2342.987	6806.231	8329.173	9706.039
80.0	396.283	384.713	420.870	601.656	1003.724	723.144	1136.782	2510.756	3951.259	6758.504
82.5	206.819	208.265	232.852	350.002	685.541	406.407	577.069	915.500	1346.494	3434.934
85.0	80.992	80.992	94.009	151.860	245.869	161.984	219.836	292.150	380.374	788.227
87.5	10.124	11.570	14.463	23.141	31.818	23.141	36.157	36.157	47.728	52.066
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	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403	8161.403
2.5	8235.164	8227.932	8177.312	8102.105	8010.989	7911.195	7856.236	7794.046	7695.698	7671.111
5.0	8282.891	8219.255	8120.907	7941.567	7744.872	7522.144	7355.821	7193.836	7047.761	6956.645
7.5	8355.206	8239.503	8090.535	7796.939	7467.185	7083.919	6716.561	6340.527	5960.153	5681.019
10.0	8452.107	8274.214	8083.304	7663.880	7162.018	6516.974	5741.763	5007.049	4432.873	4159.524
12.5	8564.917	8329.173	8094.874	7530.822	6800.446	5704.160	4584.733	4017.788	3825.432	3771.919
15.0	8702.315	8414.504	8129.585	7403.548	6324.617	4777.089	3972.953	3799.399	3745.886	3721.299
17.5	8871.531	8530.207	8190.329	7267.597	5709.945	4147.954	3841.341	3761.795	3719.853	3702.497
20.0	9062.441	8682.067	8278.552	7124.415	5034.528	3907.870	3799.399	3741.547	3693.820	3659.109
22.5	9273.599	8852.729	8375.454	6953.753	4489.278	3848.572	3769.027	3701.051	3634.522	3572.331
25.0	9480.418	9017.606	8462.231	6731.024	4155.185	3818.200	3719.853	3620.059	3536.174	3466.752
27.5	9691.576	9192.606	8543.223	6453.337	3994.647	3782.043	3637.414	3527.496	3439.273	3356.834

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CANDELA TABULATION - (Cont.)

30.0	9899.841	9371.946	8634.339	6140.939	3922.333	3722.745	3541.959	3416.132	3329.355	3255.594
32.5	10083.520	9526.699	8715.331	5805.400	3865.928	3641.753	3440.719	3300.429	3223.776	3164.478
35.0	10215.132	9625.047	8765.952	5472.754	3793.613	3543.406	3336.586	3181.834	3118.197	3057.453
37.5	10252.736	9642.402	8765.952	5182.050	3709.729	3434.934	3232.454	3067.577	3006.833	2941.750
40.0	10293.232	9662.650	8754.381	4957.875	3630.183	3330.801	3135.552	2964.890	2899.807	2820.262
42.5	10345.298	9665.543	8744.257	4778.536	3570.885	3238.239	3037.205	2873.774	2772.534	2691.542
45.0	10649.018	9922.982	8939.506	4701.882	3510.141	3160.139	2964.890	2792.782	2638.029	2559.930
47.5	11690.346	10776.292	9734.964	5092.380	3611.381	3115.304	2918.609	2750.840	2551.252	2486.169
50.0	12265.968	11367.824	10272.984	5681.019	4168.202	3258.487	2918.609	2784.104	2604.765	2664.062
52.5	11957.909	11091.583	9995.296	5370.067	4377.914	3757.456	3005.386	2828.939	2846.295	3233.900
55.0	12280.431	11451.708	10456.662	5458.291	3864.482	3588.241	3330.801	2844.848	3125.428	3874.606
57.5	12884.980	12141.588	11346.129	6392.593	3783.489	3112.412	3035.758	2879.559	3261.379	4204.359
60.0	13770.108	12944.278	12513.284	7841.773	3858.696	2927.287	2645.261	2627.905	3203.528	4032.251
62.5	14851.931	13890.150	13618.248	9347.359	4085.764	2791.336	2432.656	2425.425	3040.097	3598.365
65.0	15938.094	14452.756	14055.027	10099.429	4563.039	2677.079	2247.532	2260.548	2843.402	3165.924
67.5	16344.501	14626.310	14257.507	10377.116	5121.306	2539.682	2058.068	2076.870	2584.517	2713.236
70.0	16201.318	14701.517	14564.120	10249.843	5646.308	2377.697	1833.893	1845.463	2269.226	2363.235
72.5	14666.807	13605.231	13605.231	9760.998	6003.541	2237.408	1585.132	1598.148	1949.596	1990.092
75.0	9960.585	9152.110	9275.045	8026.898	5970.277	2131.828	1334.924	1353.726	1628.520	1569.222
77.5	6151.063	5524.820	5594.242	6453.337	5620.275	2027.696	1073.146	1091.947	1285.750	906.823
80.0	4719.238	4088.656	4233.285	5053.330	5041.760	1894.637	791.120	815.706	928.517	435.333
82.5	2209.928	2006.001	2240.300	3047.329	3983.077	1666.124	428.101	523.556	522.110	274.795
85.0	299.382	284.919	393.390	1042.774	2283.689	1078.931	188.017	209.712	166.323	130.166
87.5	34.711	30.372	34.711	72.314	591.532	373.142	40.496	43.389	33.265	26.033
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

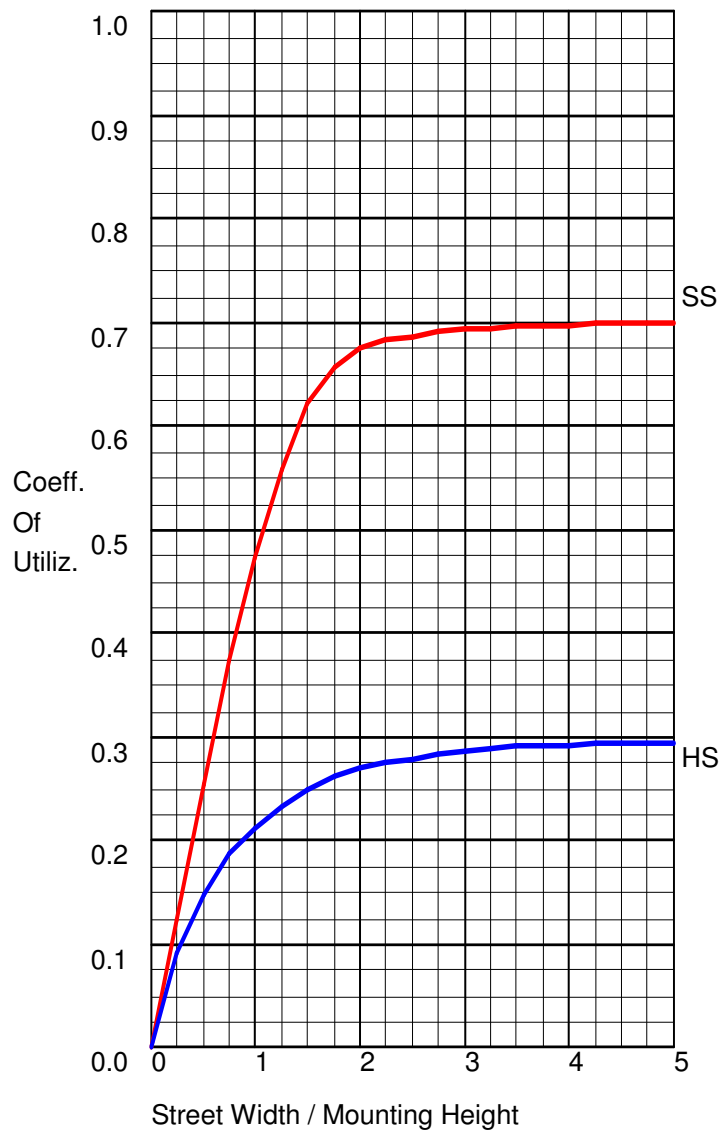
Vert. Angles Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	8161.403	8161.403
2.5	7705.822	7711.608
5.0	6920.488	6929.166
7.5	5558.085	5559.531
10.0	4068.408	4061.177
12.5	3756.010	3748.778
15.0	3714.068	3712.621
17.5	3695.266	3692.373
20.0	3647.538	3641.753
22.5	3552.083	3543.406
25.0	3432.041	3434.934
27.5	3306.214	3309.107
30.0	3197.743	3199.189
32.5	3095.056	3095.056
35.0	2993.816	2992.370
37.5	2892.576	2881.006
40.0	2769.642	2758.071
42.5	2630.798	2620.674
45.0	2510.756	2504.971
47.5	2445.673	2445.673
50.0	2684.311	2719.021
52.5	3401.669	3458.075
55.0	4214.483	4279.566
57.5	4740.932	4859.528
60.0	4435.765	4453.121
62.5	3745.886	3701.051
65.0	3106.627	3110.965

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-740-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	2504.971	2481.830
70.0	2088.440	2073.977
72.5	1721.083	1702.281
75.0	1183.064	1174.386
77.5	658.061	653.722
80.0	439.672	428.101
82.5	280.580	280.580
85.0	104.133	86.777
87.5	11.570	4.339
90.0	0.000	0.000

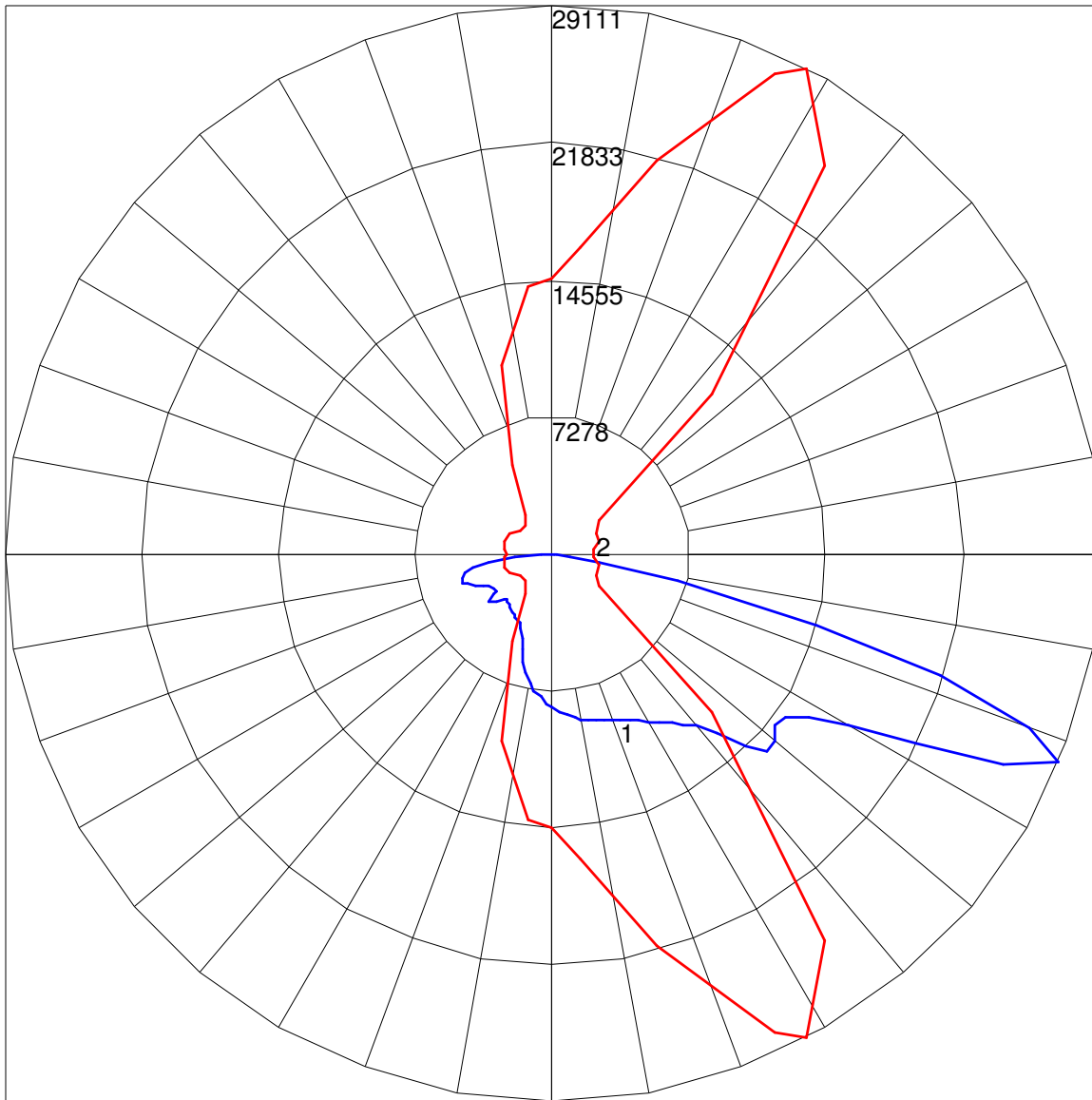
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

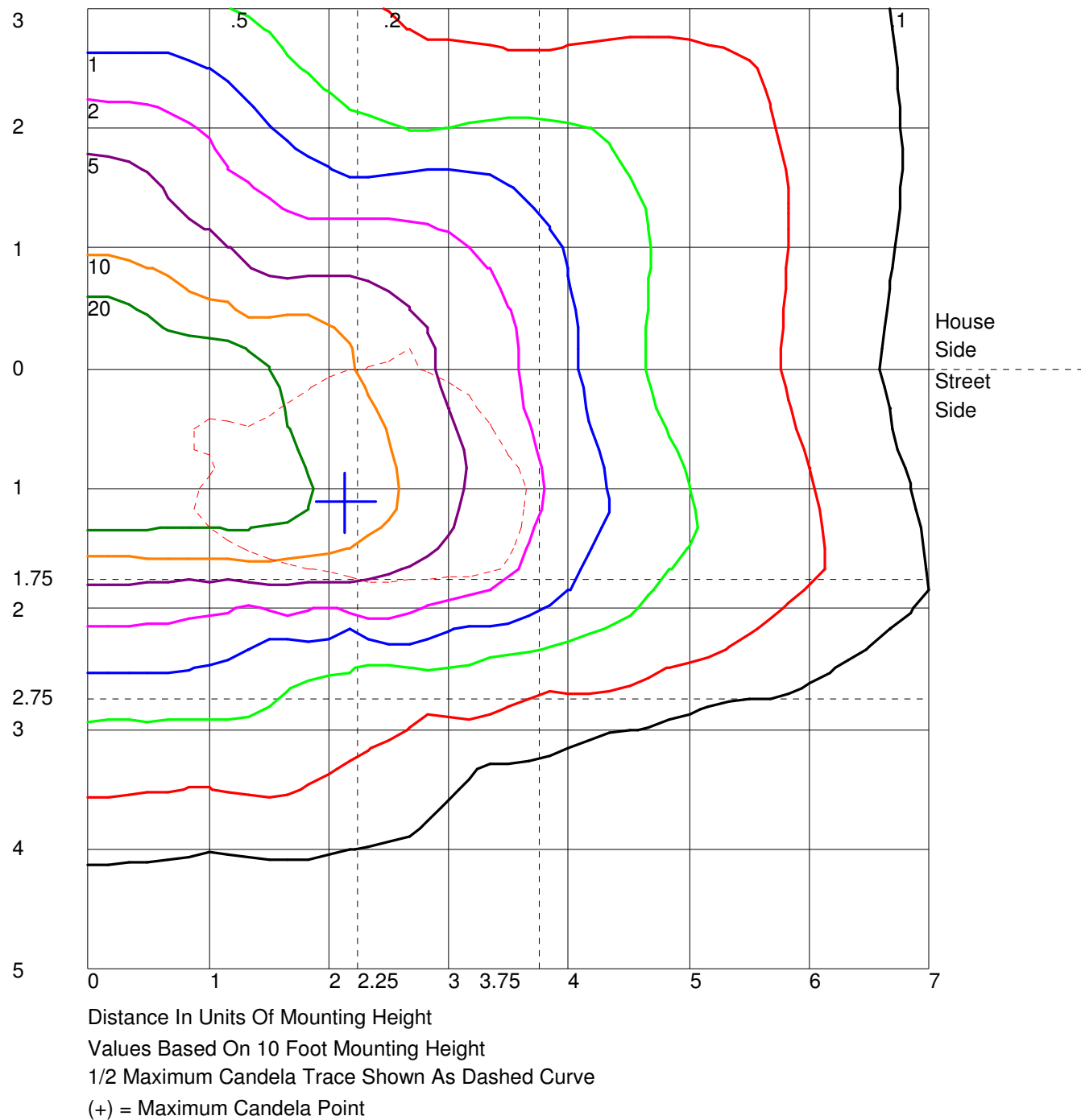
	Lumens	Percent Of Luminaire
Downward Street Side	27649.2	70.2
Downward House Side	11757.9	29.8
Downward Total	39407.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	39407.1	100.0

POLAR GRAPH

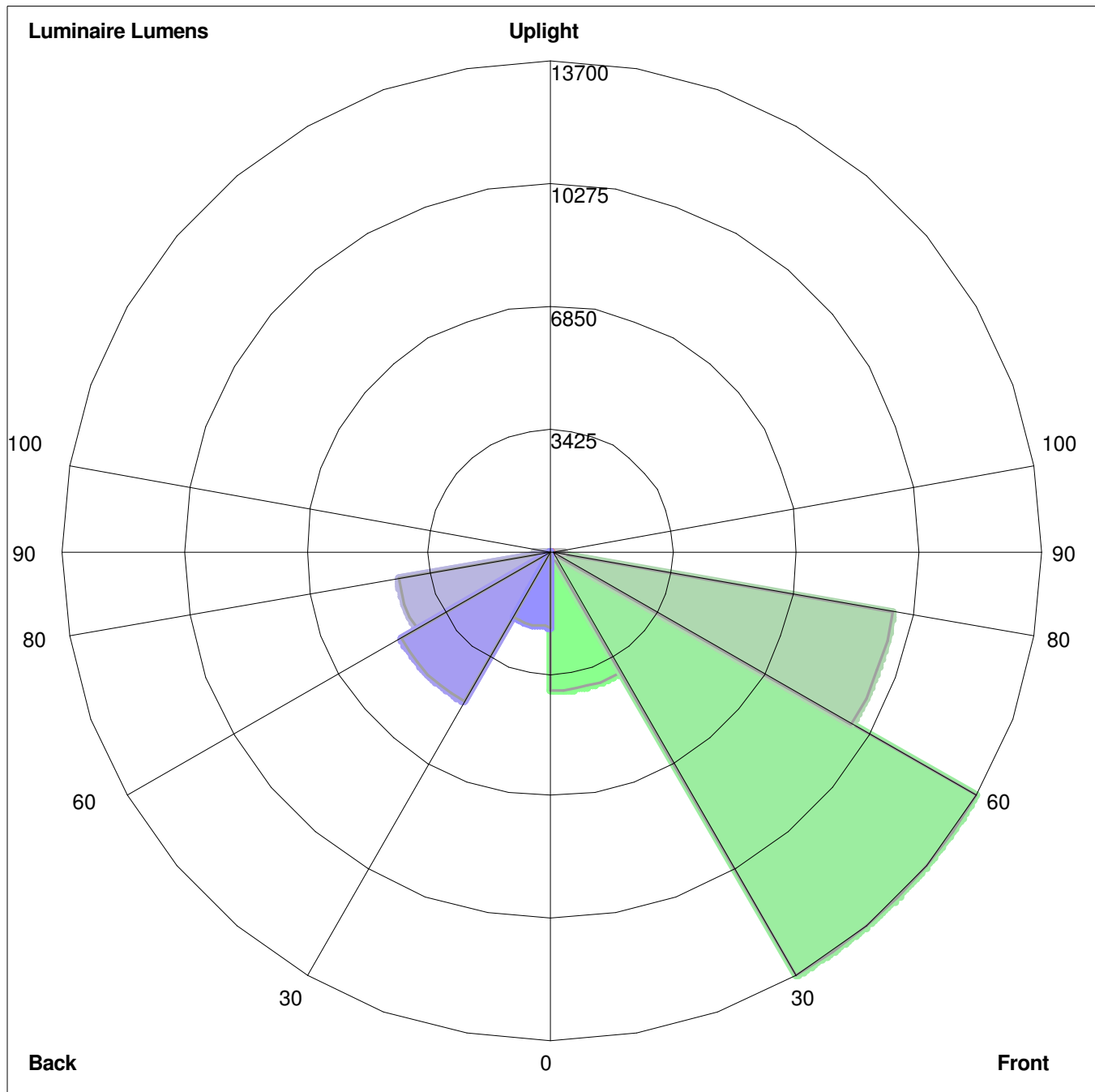


Maximum Candela = 29110.885 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 3917.0, Medium=13699.8, High=9707.6, Very High=324.8
Back: Low=2108.9, Medium=4855.9, High=4347.7, Very High=445.4
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4