



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-740-T4-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011773
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L380-740-T4-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT FIXTURE
[MORE] WITH TYPE IV 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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	38453
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	36632.142
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	36632.142
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2593.08 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-740-T4-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2937.5	N.A.	7.6
FM - Front-Medium (30-60)	11838.9	N.A.	30.8
FH - Front-High (60-80)	13779.7	N.A.	35.8
FVH - Front-Very High (80-90)	242.3	N.A.	0.6
BL - Back-Low (0-30)	1949.0	N.A.	5.1
BM - Back-Medium (30-60)	4645.5	N.A.	12.1
BH - Back-High (60-80)	2879.2	N.A.	7.5
BVH - Back-Very High (80-90)	181.5	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	38453.6	N.A.	100.0
BUG Rating	B4-U0-G5		

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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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006
2.5	6491.715	6478.194	6496.222	6467.677	6406.080	6395.564	6367.019	6326.455	6246.830	6182.228
5.0	7025.054	7031.064	7041.580	6993.505	6912.377	6805.709	6778.667	6638.947	6451.151	6261.853
7.5	7324.025	7334.541	7342.053	7331.537	7248.906	7148.248	7112.191	6903.363	6637.444	6350.493
10.0	7390.129	7405.152	7412.664	7430.693	7408.157	7318.015	7289.470	7070.125	6799.700	6442.137
12.5	7373.603	7385.622	7382.617	7414.167	7427.688	7351.067	7325.527	7151.253	6922.893	6532.279
15.0	7331.537	7336.044	7321.020	7352.570	7388.626	7324.025	7296.982	7191.817	7017.542	6638.947
17.5	7280.456	7275.949	7259.423	7287.968	7309.001	7274.447	7260.925	7229.376	7107.684	6732.093
20.0	7172.286	7164.774	7179.798	7227.873	7230.878	7206.840	7205.338	7259.423	7109.187	6781.671
22.5	7023.552	7019.045	7121.206	7173.788	7145.243	7139.234	7157.262	7193.319	7091.158	6850.780
25.0	6915.382	6925.898	7110.689	7095.665	7068.623	7106.182	7137.732	7128.717	7116.698	6936.415
27.5	6907.870	6946.931	7092.661	7062.613	7053.599	7127.215	7164.774	7148.248	7178.295	7058.106
30.0	7035.571	7047.590	7100.172	7094.163	7140.736	7214.352	7244.399	7268.437	7301.489	7229.376
32.5	7226.371	7178.295	7203.836	7277.451	7340.551	7382.617	7411.162	7469.754	7492.289	7441.209
35.0	7480.271	7403.650	7405.152	7580.929	7607.971	7633.512	7638.019	7722.151	7722.151	7701.118
37.5	7897.928	7840.838	7795.767	7953.515	7995.581	7973.046	7946.003	7976.051	7967.037	7974.548
40.0	8437.276	8384.694	8321.594	8438.779	8510.892	8401.220	8363.661	8214.927	8226.945	8287.040
42.5	9000.663	8946.578	8921.038	9045.734	9152.402	8942.071	8847.422	8495.869	8528.921	8628.077
45.0	9669.215	9646.679	9634.661	9760.859	9876.541	9609.120	9466.396	9032.213	8909.019	9044.232
47.5	10468.473	10408.378	10439.928	10639.742	10567.629	10388.847	10252.132	9769.873	9437.851	9552.031
50.0	11302.285	11213.645	11227.166	11541.161	11359.375	11242.190	11138.527	10716.363	10164.995	10154.479
52.5	12415.536	12391.499	12095.533	12338.916	12218.727	12161.637	12142.106	11904.733	11069.418	10815.519
55.0	14299.501	14060.625	13434.139	13268.879	13180.240	13279.396	13416.111	13213.292	12112.059	11617.781
57.5	16215.015	16196.987	15391.720	14583.448	14227.387	14697.627	15037.162	14499.315	13217.799	12417.039
60.0	17161.504	17164.509	17215.590	16326.190	15483.364	16486.943	17081.879	15958.111	14221.378	12956.387
62.5	17954.753	18135.036	18630.816	18421.988	17236.623	19013.919	19960.409	17525.077	14781.760	13069.065
65.0	19028.943	19336.928	20932.438	20918.917	19750.078	23158.942	24279.705	19318.899	14359.595	12636.384
67.5	18082.454	18446.026	22304.097	24529.098	23388.803	29165.393	30131.413	20366.047	12750.564	11524.635
70.0	14645.045	14718.660	20242.853	26947.904	26980.956	35006.584	35269.498	18136.539	9885.555	8781.318
72.0	10671.292	10853.078	16416.332	25398.966	26973.444	36632.142	36016.173	2672.441	16990.500	5114.047
72.5	9380.761	9562.547	15134.815	24545.624	26512.218	36289.603	35649.596	11046.883	36279.882	4253.193
75.0	3680.792	3625.204	6632.937	15248.995	19769.608	27894.393	22185.410	4440.988	3740.886	1968.097
77.5	2390.261	2327.162	2127.347	4362.865	7427.688	8775.308	4466.528	1771.287	2053.732	1261.986
80.0	1553.444	1741.240	1292.033	1980.116	2593.080	2152.888	1527.904	1009.589	1189.872	830.807
82.5	790.243	950.996	760.196	993.063	1086.209	850.338	821.793	578.410	623.481	467.235
85.0	333.525	444.700	310.989	377.093	416.155	306.482	306.482	240.378	258.407	192.303
87.5	82.630	120.189	48.076	48.076	72.113	45.071	37.559	40.564	40.564	30.047
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	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006	6041.006
2.5	6104.105	6048.518	6007.954	5931.333	5839.689	5761.566	5677.434	5629.358	5558.747	5536.211
5.0	6062.039	5950.864	5853.210	5671.424	5492.643	5346.914	5210.198	5133.578	5053.953	5025.408
7.5	6042.508	5883.258	5730.016	5455.084	5211.701	5028.412	4894.702	4827.096	4782.025	4776.015
10.0	6028.987	5818.656	5612.832	5252.265	4972.825	4803.058	4705.404	4696.390	4717.423	4760.992
12.5	6022.977	5757.059	5495.648	5055.455	4770.006	4643.807	4619.769	4679.864	4788.034	4909.726
15.0	6036.499	5708.983	5390.482	4875.171	4597.234	4522.116	4574.699	4709.911	4893.200	5071.981
17.5	6045.513	5663.912	5292.829	4712.916	4453.007	4425.964	4516.106	4696.390	4881.181	5059.962
20.0	6053.025	5620.344	5205.691	4570.191	4334.320	4340.330	4428.969	4571.694	4724.935	4908.223
22.5	6075.560	5588.794	5123.061	4437.983	4236.667	4260.704	4301.268	4385.401	4519.111	4696.390
25.0	6119.129	5578.278	5052.450	4329.813	4160.046	4178.074	4142.018	4194.600	4290.752	4466.528

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CANDELA TABULATION - (Cont.)

27.5	6200.256	5593.301	5004.375	4250.188	4102.956	4074.411	3993.284	4009.810	4095.444	4245.681
30.0	6321.948	5644.382	4987.849	4193.098	4059.388	3960.232	3861.076	3853.564	3913.658	4053.378
32.5	6490.213	5731.519	4995.360	4152.534	4027.838	3855.066	3740.886	3706.332	3760.417	3942.203
35.0	6703.548	5851.708	5028.412	4128.496	3996.288	3766.427	3629.712	3565.110	3676.285	3883.611
37.5	6970.969	6009.456	5094.516	4134.506	3942.203	3683.797	3503.513	3477.973	3622.200	3849.057
40.0	7322.522	6243.825	5211.701	4179.577	3879.104	3611.683	3390.836	3428.395	3569.617	3841.545
42.5	7758.208	6575.847	5394.989	4235.164	3835.535	3560.603	3329.239	3374.310	3532.058	3837.038
45.0	8276.523	6990.500	5666.917	4283.240	3817.507	3512.527	3309.708	3318.722	3499.006	3805.488
47.5	8890.990	7531.351	6019.973	4326.808	3811.498	3465.954	3275.154	3264.637	3450.930	3622.200
50.0	9595.599	8189.386	6437.630	4401.927	3817.507	3413.371	3221.069	3206.045	3254.121	3538.067
52.5	10354.293	8862.445	6904.865	4556.670	3849.057	3389.333	3162.476	3135.434	3078.344	3496.001
55.0	11242.190	9917.105	7758.208	4726.437	3886.616	3438.911	3169.988	3007.733	3006.230	3407.362
57.5	12619.858	11490.080	8557.466	4878.176	4041.359	3635.721	3347.267	3066.325	3073.837	3314.215
60.0	14129.734	12334.409	9116.345	5169.635	4220.141	3755.910	3499.006	3219.566	3315.717	3368.300
62.5	14123.724	12365.958	9696.258	5382.970	4218.638	3722.858	3441.916	3171.490	3503.513	3332.243
65.0	13151.695	11852.150	9410.808	5232.734	4193.098	3721.356	3305.201	2874.022	3305.201	3069.330
67.5	9778.888	8545.447	6400.071	3936.194	3838.540	3685.299	3168.486	2587.071	2940.126	2803.411
70.0	4706.907	3745.394	2719.279	2158.897	2731.298	3380.319	3096.372	2327.162	2599.090	2672.706
72.0	2384.252	1877.955	1575.980	1413.725	1744.245	2848.482	3055.808	2088.286	2241.527	2447.351
72.5	2220.494	1691.662	1446.777	1322.080	1562.459	2771.862	3027.264	2025.187	2142.371	2373.735
75.0	1323.583	1113.252	994.565	960.011	1048.650	1826.875	2605.099	1715.700	1664.619	1942.557
77.5	884.892	752.684	701.604	683.576	752.684	1072.688	1969.599	1469.312	1311.564	1493.350
80.0	588.927	495.780	468.738	470.240	521.320	685.078	1257.479	1135.787	1012.593	1143.299
82.5	333.525	268.923	261.411	279.440	316.999	402.634	677.566	829.305	740.665	854.845
85.0	136.715	103.663	100.658	112.677	139.720	181.786	320.004	398.126	359.065	395.122
87.5	21.033	15.024	13.521	18.028	28.545	40.564	84.132	91.644	84.132	78.123
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

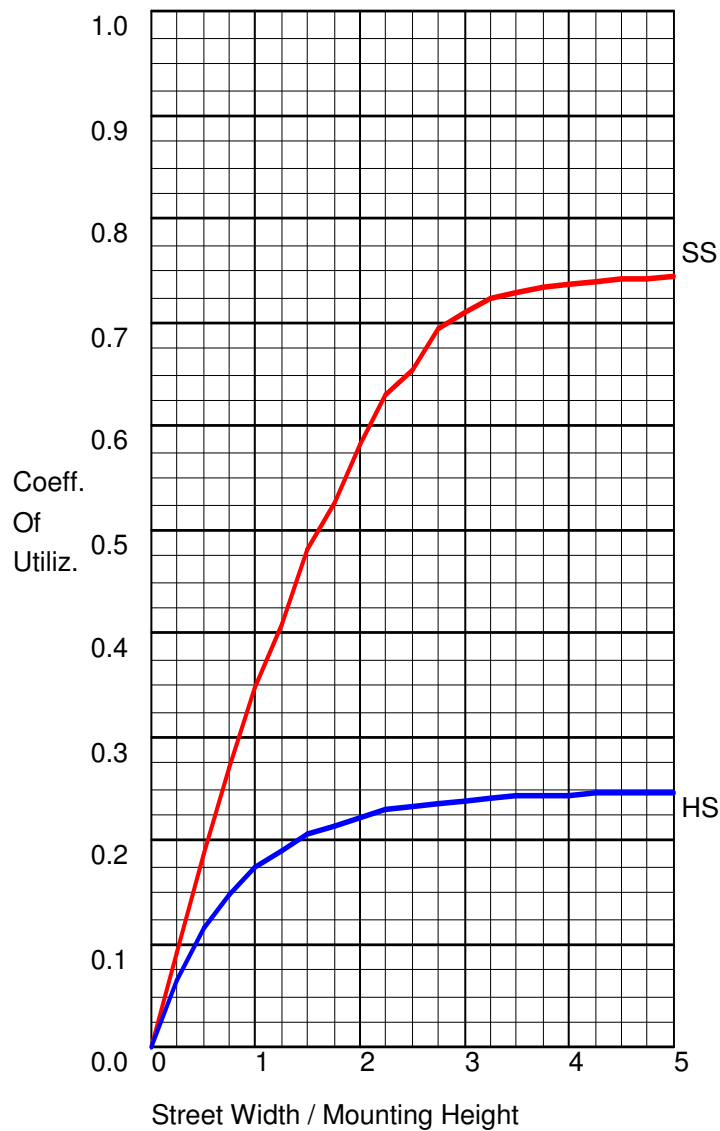
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	6041.006	6041.006
2.5	5521.188	5539.216
5.0	5008.882	5020.901
7.5	4771.508	4774.513
10.0	4786.532	4783.527
12.5	4975.830	4972.825
15.0	5165.128	5166.630
17.5	5157.616	5169.635
20.0	5020.901	5040.431
22.5	4816.579	4843.622
25.0	4597.234	4619.769
27.5	4377.889	4400.424
30.0	4202.112	4221.643
32.5	4114.975	4140.515
35.0	4063.895	4090.937
37.5	4063.895	4081.923
40.0	4087.933	4092.440
42.5	4083.425	4089.435
45.0	3984.269	3981.265
47.5	3868.587	3886.616
50.0	3901.639	3921.170
52.5	3913.658	3924.175
55.0	3837.038	3852.061
57.5	3731.872	3752.905
60.0	3619.195	3638.726

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L380-740-T4-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	3422.385	3447.925
65.0	3144.448	3206.045
67.5	2851.487	2952.145
70.0	2540.498	2677.213
72.0	2303.124	2444.346
72.5	2240.025	2376.740
75.0	1865.936	1980.116
77.5	1553.444	1705.183
80.0	1437.762	1565.463
82.5	799.258	862.357
85.0	282.444	270.426
87.5	37.559	9.014
90.0	0.000	0.000

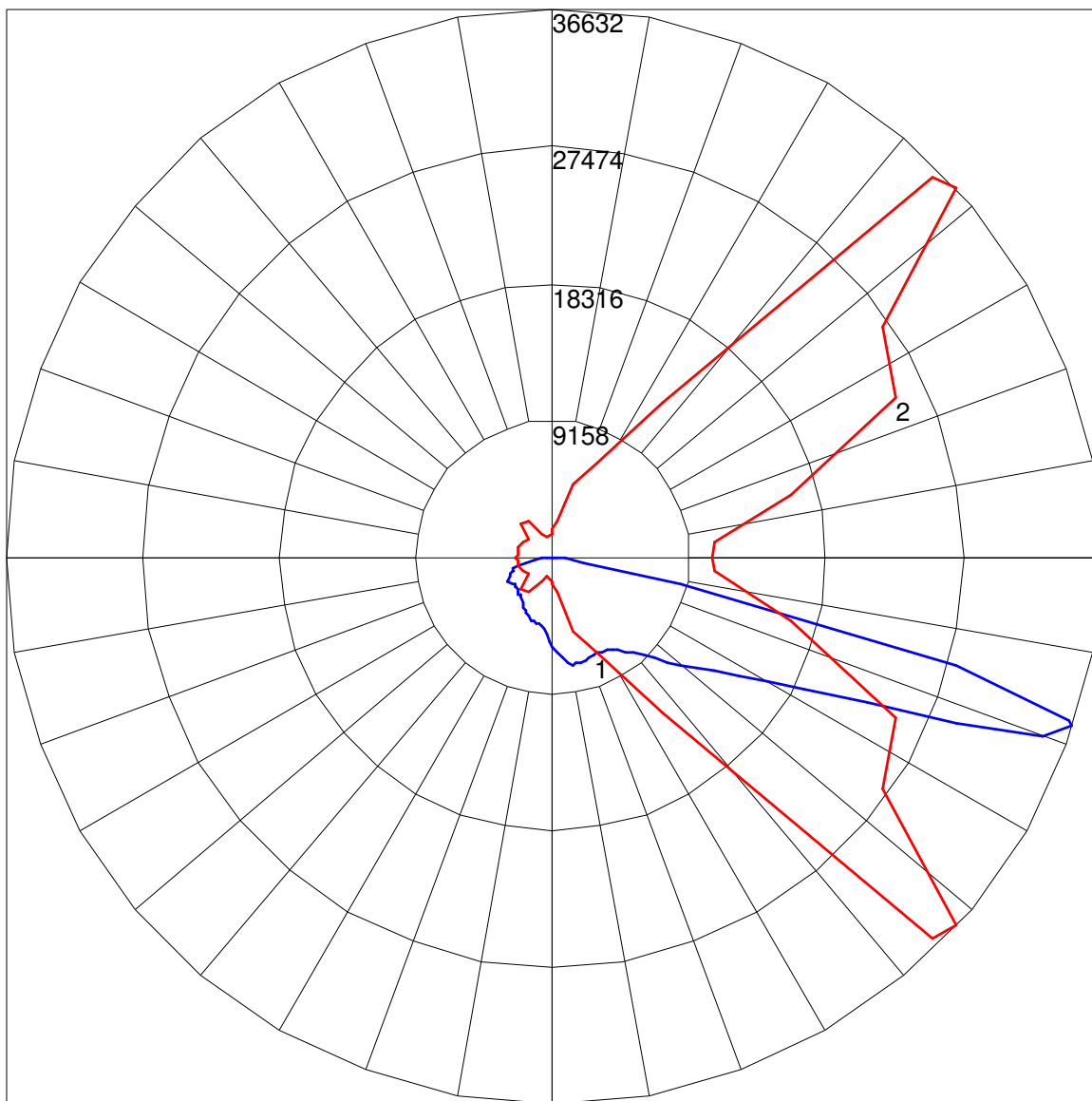
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

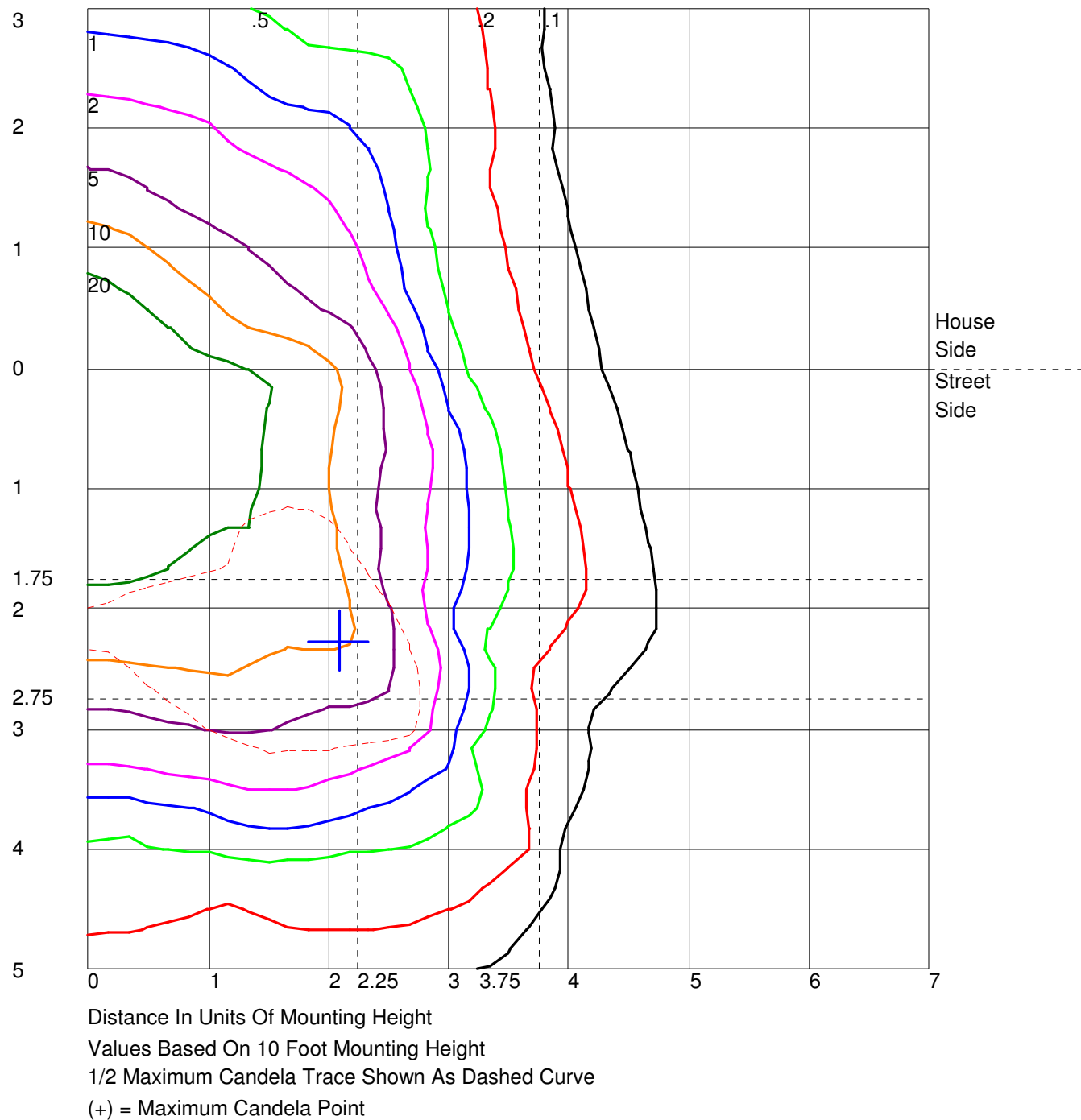
	Lumens	Percent Of Luminaire
Downward Street Side	28798.4	74.9
Downward House Side	9655.1	25.1
Downward Total	38453.5	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	38453.5	100.0

POLAR GRAPH

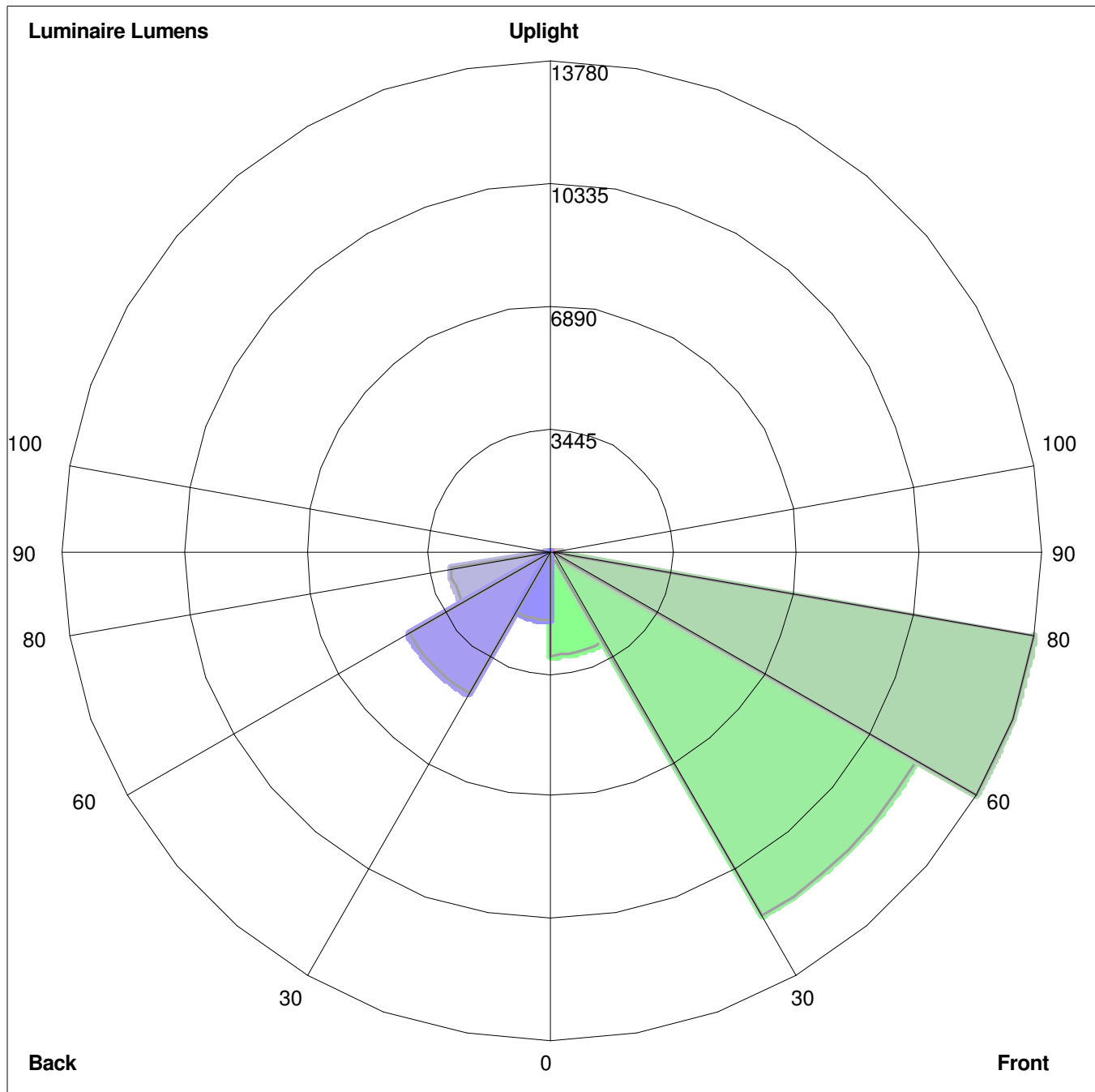


Maximum Candela = 36632.142 Located At Horizontal Angle = 42.5, Vertical Angle = 72
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2937.5, Medium=11838.9, High=13779.7, Very High=242.3
Back: Low= 1949.0, Medium=4645.5, High=2879.2, Very High=181.5
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G5