



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L380-730-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-L380-730-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	34993
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	317
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	33335.243
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	33335.243
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	2359.703 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L380-730-T4-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2673.1	N.A.	7.6
FM - Front-Medium (30-60)	10773.4	N.A.	30.8
FH - Front-High (60-80)	12539.5	N.A.	35.8
FVH - Front-Very High (80-90)	220.5	N.A.	0.6
BL - Back-Low (0-30)	1773.6	N.A.	5.1
BM - Back-Medium (30-60)	4227.4	N.A.	12.1
BH - Back-High (60-80)	2620.0	N.A.	7.5
BVH - Back-Very High (80-90)	165.2	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	34992.8	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	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314
2.5	5907.460	5895.155	5911.561	5885.585	5829.532	5819.962	5793.986	5757.073	5684.614	5625.826
5.0	6392.798	6398.267	6407.837	6364.088	6290.262	6193.194	6168.585	6041.440	5870.546	5698.285
7.5	6664.861	6674.431	6681.267	6671.697	6596.504	6504.905	6472.093	6282.059	6040.073	5778.947
10.0	6725.016	6738.687	6745.523	6761.929	6741.422	6659.393	6633.417	6433.813	6187.726	5862.344
12.5	6709.977	6720.914	6718.180	6746.890	6759.195	6689.470	6666.228	6507.639	6299.832	5944.373
15.0	6671.697	6675.798	6662.127	6690.837	6723.649	6664.861	6640.253	6544.552	6385.962	6041.440
17.5	6625.214	6621.112	6606.074	6632.050	6651.190	6619.745	6607.441	6578.731	6467.991	6126.204
20.0	6526.779	6519.943	6533.615	6577.364	6580.098	6558.223	6556.856	6606.074	6469.359	6171.320
22.5	6391.431	6387.330	6480.296	6528.146	6502.170	6496.702	6513.107	6545.919	6452.953	6234.209
25.0	6292.996	6302.566	6470.726	6457.054	6432.446	6466.624	6495.335	6487.132	6476.194	6312.136
27.5	6286.160	6321.706	6454.320	6426.977	6418.774	6485.764	6519.943	6504.905	6532.248	6422.876
30.0	6402.368	6413.305	6461.156	6455.687	6498.069	6565.059	6592.402	6614.277	6644.354	6578.731
32.5	6575.996	6532.248	6555.489	6622.480	6679.900	6718.180	6744.156	6797.475	6817.982	6771.499
35.0	6807.045	6737.320	6738.687	6898.644	6923.253	6946.494	6950.596	7027.156	7027.156	7008.016
37.5	7187.113	7135.161	7094.147	7237.698	7275.978	7255.470	7230.862	7258.205	7250.002	7256.838
40.0	7677.920	7630.070	7572.650	7679.287	7744.911	7645.109	7610.930	7475.582	7486.519	7541.205
42.5	8190.602	8141.384	8118.143	8231.616	8328.684	8137.283	8051.152	7731.239	7761.316	7851.548
45.0	8798.984	8778.477	8767.540	8882.380	8987.651	8744.298	8614.419	8219.312	8107.206	8230.249
47.5	9526.308	9471.622	9500.332	9682.164	9616.540	9453.849	9329.439	8890.583	8588.443	8692.346
50.0	10285.077	10204.415	10216.720	10502.454	10337.029	10230.391	10136.058	9751.888	9250.144	9240.574
52.5	11298.136	11276.262	11006.933	11228.411	11119.039	11067.088	11049.315	10833.305	10073.169	9842.120
55.0	13012.543	12795.166	12225.064	12074.678	11994.016	12084.248	12208.659	12024.093	11021.972	10572.179
57.5	14755.661	14739.255	14006.462	13270.935	12946.920	13374.838	13683.815	13194.375	12028.195	11299.503
60.0	15616.966	15619.700	15666.184	14856.830	14089.858	15003.115	15544.507	14521.878	12941.452	11790.310
62.5	16338.822	16502.880	16954.040	16764.006	15685.324	17302.663	18163.968	15947.817	13451.399	11892.847
65.0	17316.335	17596.601	19048.515	19036.211	17972.567	21074.633	22094.528	17580.195	13067.229	11499.107
67.5	16455.030	16785.880	20296.724	22321.475	21283.807	26540.503	27419.581	18533.099	11603.011	10487.415
70.0	13326.988	13393.979	18420.993	24522.588	24552.665	31855.986	32095.237	16504.247	8995.854	7990.998
72.0	9710.874	9876.299	14938.859	23113.055	24545.829	33335.243	32774.711	11531.919	96361.354	4653.782
72.5	8536.491	8701.916	13772.679	22336.513	24126.114	33023.533	32441.127	10052.661	5714.691	3870.405
75.0	3349.520	3298.935	6035.972	13876.583	17990.340	25383.893	20188.719	14041.298	3404.206	1790.968
77.5	2175.137	2117.717	1935.886	3970.207	6759.195	7985.529	4064.540	1611.871	1868.895	1148.407
80.0	1413.634	1584.528	1175.750	1801.905	2359.703	1959.127	1390.393	918.725	1082.784	756.035
82.5	719.121	865.407	691.778	903.687	988.450	773.807	747.832	526.353	567.368	425.184
85.0	303.508	404.677	283.000	343.155	378.701	278.899	278.899	218.744	235.150	174.995
87.5	75.193	109.372	43.749	43.749	65.623	41.015	34.179	36.913	36.913	27.343
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	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314	5497.314
2.5	5554.735	5504.150	5467.237	5397.512	5314.116	5243.024	5166.464	5122.715	5058.459	5037.952
5.0	5516.454	5415.285	5326.420	5160.995	4998.304	4865.690	4741.280	4671.555	4599.096	4573.120
7.5	5498.681	5353.763	5214.314	4964.125	4742.647	4575.854	4454.178	4392.656	4351.642	4346.173
10.0	5486.377	5294.976	5107.676	4779.560	4525.270	4370.782	4281.917	4273.714	4292.854	4332.502
12.5	5480.908	5238.923	5001.038	4600.463	4340.704	4225.864	4203.989	4258.675	4357.110	4467.850
15.0	5493.213	5195.174	4905.338	4436.405	4183.482	4115.125	4162.975	4286.018	4452.811	4615.502
17.5	5501.416	5154.159	4816.473	4288.753	4052.236	4027.627	4109.656	4273.714	4441.874	4604.565
20.0	5508.251	5114.512	4737.178	4158.873	3944.231	3949.699	4030.361	4160.241	4299.690	4466.482
22.5	5528.759	5085.802	4661.985	4038.564	3855.366	3877.240	3914.153	3990.714	4112.390	4273.714
25.0	5568.406	5076.232	4597.729	3940.129	3785.641	3802.047	3769.235	3817.086	3904.583	4064.540

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**CANDELA TABULATION - (Cont.)**

27.5	5642.232	5089.903	4553.980	3867.670	3733.689	3707.714	3633.887	3648.926	3726.854	3863.569
30.0	5752.972	5136.386	4538.941	3815.719	3694.042	3603.810	3513.578	3506.742	3561.428	3688.573
32.5	5906.092	5215.681	4545.777	3778.805	3665.332	3508.110	3404.206	3372.762	3421.979	3587.404
35.0	6100.228	5325.053	4575.854	3756.931	3636.622	3427.448	3303.037	3244.249	3345.419	3534.085
37.5	6343.581	5468.604	4636.009	3762.400	3587.404	3352.254	3188.196	3164.955	3296.201	3502.641
40.0	6663.494	5681.880	4742.647	3803.414	3529.984	3286.631	3085.660	3119.839	3248.351	3495.805
42.5	7059.968	5984.020	4909.439	3853.999	3490.337	3240.148	3029.607	3070.621	3214.172	3491.704
45.0	7531.635	6361.354	5156.894	3897.748	3473.931	3196.399	3011.834	3020.037	3184.095	3462.994
47.5	8090.800	6853.528	5478.174	3937.395	3468.462	3154.017	2980.389	2970.819	3140.346	3296.201
50.0	8731.994	7452.340	5858.242	4005.752	3473.931	3106.167	2931.172	2917.500	2961.249	3219.641
52.5	9422.405	8064.824	6283.426	4146.569	3502.641	3084.293	2877.853	2853.244	2801.292	3181.360
55.0	10230.391	9024.564	7059.968	4301.057	3536.820	3129.409	2884.689	2737.036	2735.669	3100.699
57.5	11484.069	10455.971	7787.292	4439.139	3677.636	3308.505	3046.012	2790.355	2797.191	3015.935
60.0	12858.055	11224.310	8295.872	4704.367	3840.327	3417.878	3184.095	2929.805	3017.302	3065.153
62.5	12852.587	11253.020	8823.593	4898.502	3838.960	3387.800	3132.143	2886.056	3188.196	3032.341
65.0	11968.040	10785.454	8563.834	4761.787	3815.719	3386.433	3007.732	2615.360	3007.732	2793.090
67.5	8898.786	7776.355	5824.063	3581.936	3493.071	3353.621	2883.322	2354.234	2675.515	2551.104
70.0	4283.284	3408.307	2474.543	1964.596	2485.481	3076.090	2817.698	2117.717	2365.171	2432.162
72.0	2169.669	1708.939	1434.141	1286.489	1587.262	2592.118	2780.785	1900.340	2039.789	2227.089
72.5	2020.649	1539.412	1316.566	1203.093	1421.837	2522.394	2754.809	1842.920	1949.557	2160.099
75.0	1204.460	1013.059	905.054	873.610	954.271	1662.456	2370.640	1561.286	1514.803	1767.726
77.5	805.252	684.943	638.460	622.054	684.943	976.146	1792.335	1337.074	1193.523	1358.948
80.0	535.923	451.160	426.551	427.918	474.401	623.421	1144.305	1033.566	921.460	1040.402
82.5	303.508	244.720	237.884	254.290	288.469	366.396	616.585	754.667	674.005	777.909
85.0	124.411	94.333	91.599	102.536	127.145	165.425	291.203	362.295	326.749	359.561
87.5	19.140	13.672	12.304	16.406	25.976	36.913	76.560	83.396	76.560	71.092
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

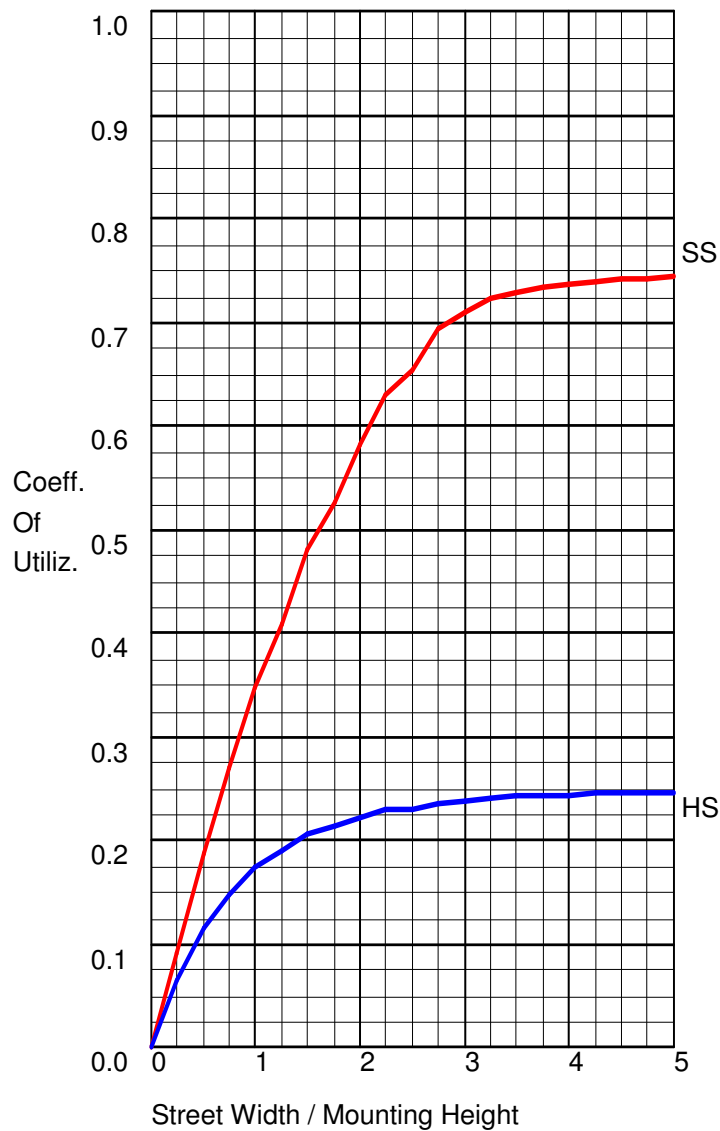
**Vert. Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	5497.314	5497.314
2.5	5024.280	5040.686
5.0	4558.082	4569.019
7.5	4342.072	4344.806
10.0	4355.743	4353.009
12.5	4528.004	4525.270
15.0	4700.265	4701.632
17.5	4693.429	4704.367
20.0	4569.019	4586.792
22.5	4383.086	4407.695
25.0	4183.482	4203.989
27.5	3983.878	4004.385
30.0	3823.921	3841.694
32.5	3744.627	3767.868
35.0	3698.144	3722.752
37.5	3698.144	3714.549
40.0	3720.018	3724.119
42.5	3715.916	3721.385
45.0	3625.685	3622.950
47.5	3520.414	3536.820
50.0	3550.491	3568.264
52.5	3561.428	3570.998
55.0	3491.704	3505.375
57.5	3396.003	3415.143
60.0	3293.467	3311.240

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L380-730-T4-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

62.5	3114.370	3137.612
65.0	2861.447	2917.500
67.5	2594.853	2686.452
70.0	2311.852	2436.263
72.0	2095.843	2224.355
72.5	2038.422	2162.833
75.0	1698.002	1801.905
77.5	1413.634	1551.716
80.0	1308.364	1424.571
82.5	727.324	784.745
85.0	257.024	246.087
87.5	34.179	8.203
90.0	0.000	0.000

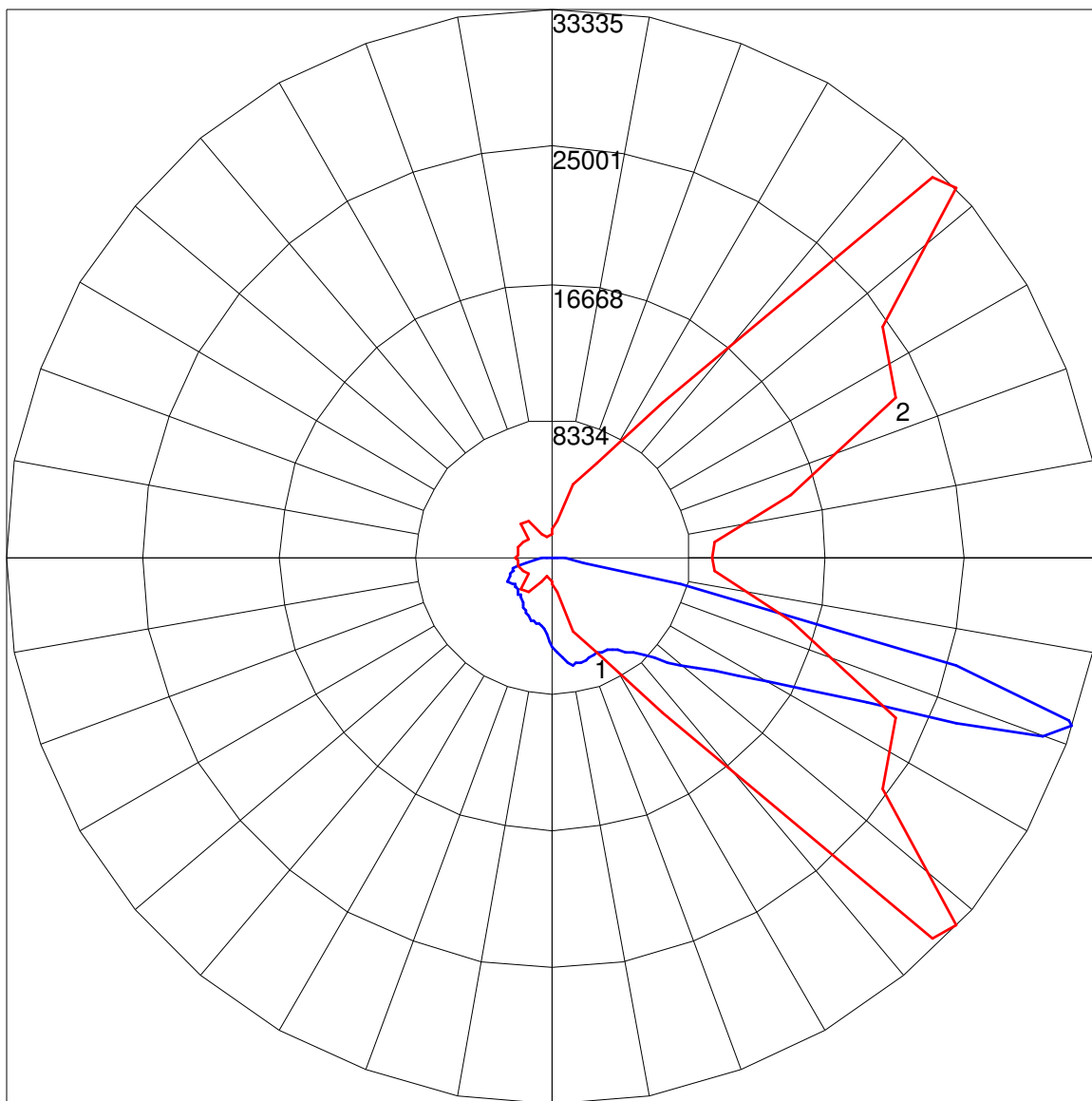
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

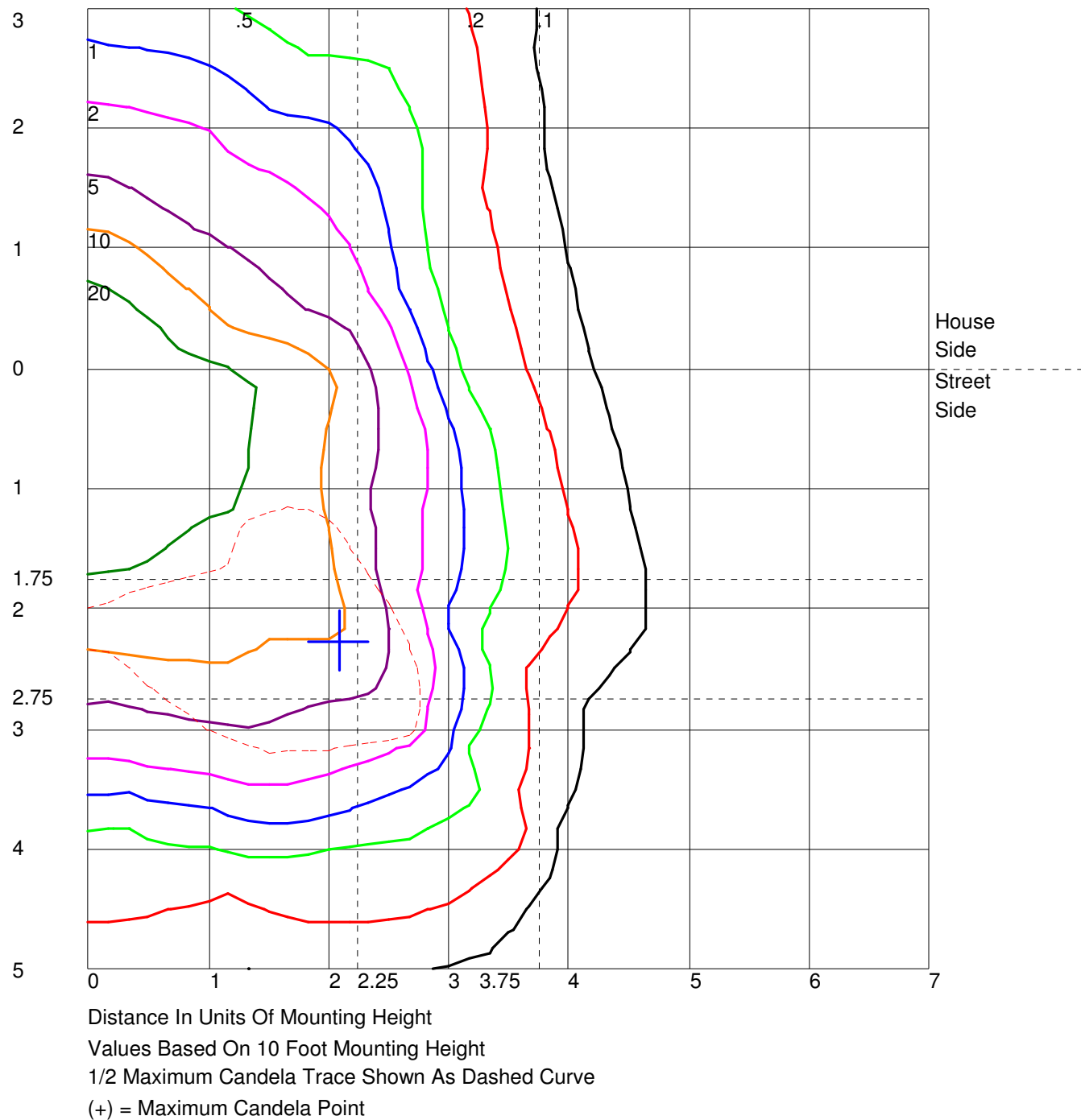
	Lumens	Percent Of Luminaire
Downward Street Side	26206.5	74.9
Downward House Side	8786.2	25.1
Downward Total	34992.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	34992.7	100.0

POLAR GRAPH



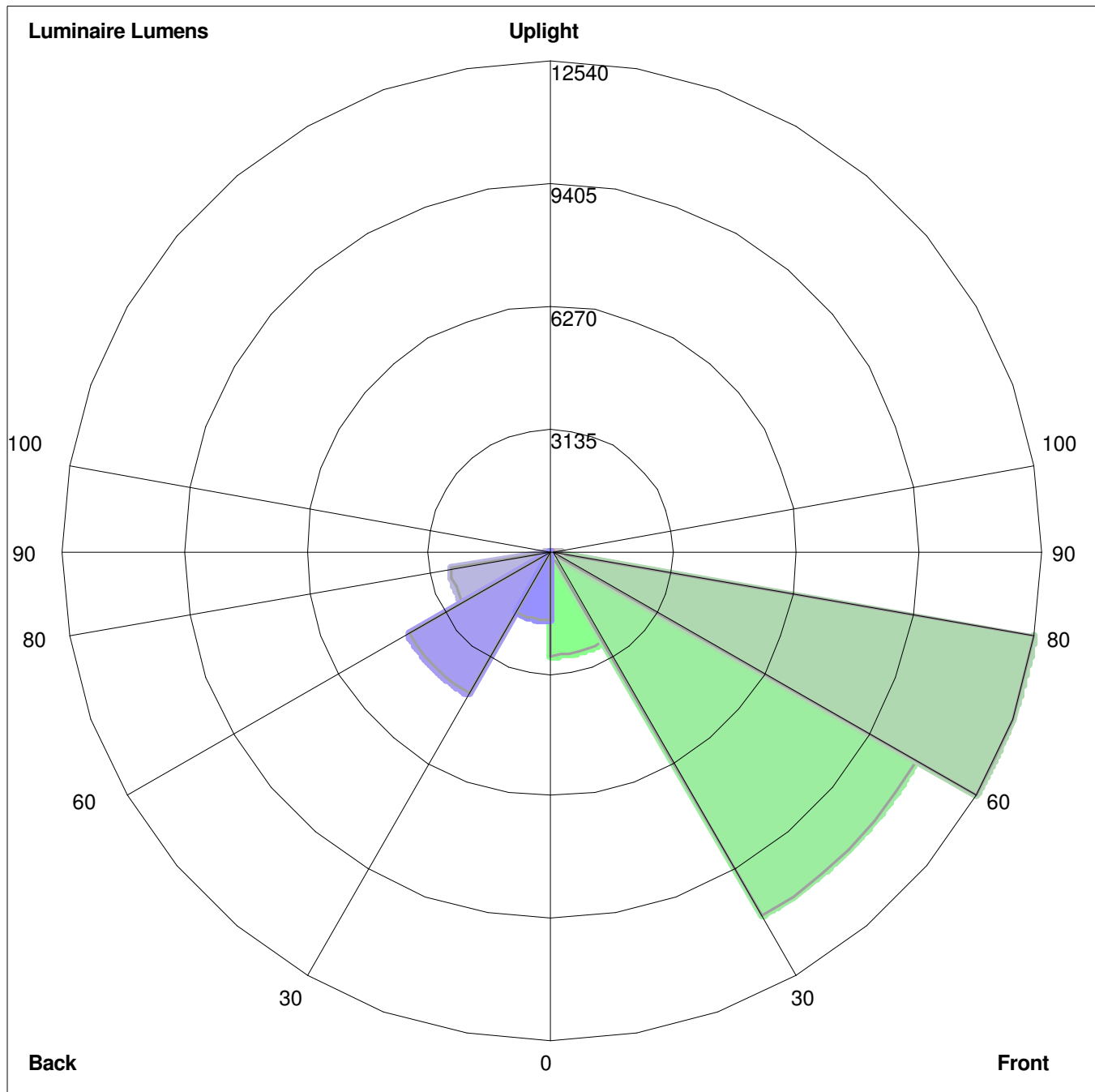
Maximum Candela = 33335.243 Located At Horizontal Angle = 42.5, Vertical Angle = 72  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2673.1, Medium=10773.4, High=12539.5, Very High=220.5  
Back: Low=1773.6, Medium=4227.4, High= 2620.0, Very High=165.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G5