



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-730-T4-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011773
[TESTLAB] ATAL-LABS
[ISSUEDATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-730-T4-F-S-xxx-DIM-UNV
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE IV
[MORE]OPTICS, CLEAR LENS, (2) LED ARRAYS
[MORE]AND (2) ELECTRONIC DRIVERS IN A BROWN HOUSING.
[LAMPCAT] 3000K LEDS
[_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	27621
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26313.062
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	26313.062
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	1862.623 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-730-T4-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2110.0	N.A.	7.6
FM - Front-Medium (30-60)	8503.9	N.A.	30.8
FH - Front-High (60-80)	9898.0	N.A.	35.8
FVH - Front-Very High (80-90)	174.0	N.A.	0.6
BL - Back-Low (0-30)	1400.0	N.A.	5.1
BM - Back-Medium (30-60)	3336.9	N.A.	12.1
BH - Back-High (60-80)	2068.1	N.A.	7.5
BVH - Back-Very High (80-90)	130.4	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	27621.3	N.A.	100.0
BUG Rating	B3-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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286
2.5	4663.033	4653.321	4666.271	4645.767	4601.521	4593.967	4573.463	4544.326	4487.131	4440.727
5.0	5046.134	5050.450	5058.004	5023.471	4965.197	4888.577	4869.152	4768.791	4633.896	4497.922
7.5	5260.886	5268.440	5273.836	5266.281	5206.928	5134.624	5108.725	4958.722	4767.711	4561.593
10.0	5308.369	5319.160	5324.556	5337.506	5321.318	5256.569	5236.065	5078.508	4884.260	4627.421
12.5	5296.498	5305.131	5302.973	5325.635	5335.347	5280.311	5261.965	5136.783	4972.751	4692.170
15.0	5266.281	5269.519	5258.727	5281.390	5307.289	5260.886	5241.461	5165.920	5040.738	4768.791
17.5	5229.590	5226.353	5214.482	5234.986	5250.094	5225.274	5215.561	5192.899	5105.487	4835.698
20.0	5151.891	5146.495	5157.287	5191.820	5193.978	5176.712	5175.632	5214.482	5106.566	4871.310
22.5	5045.054	5041.817	5115.200	5152.970	5132.466	5128.150	5141.099	5166.999	5093.617	4920.952
25.0	4967.355	4974.909	5107.646	5096.854	5077.429	5104.408	5127.070	5120.595	5111.962	4982.463
27.5	4961.959	4990.018	5094.696	5073.113	5066.638	5119.516	5146.495	5134.624	5156.208	5069.875
30.0	5053.688	5062.321	5100.091	5095.775	5129.229	5182.107	5203.690	5220.957	5244.698	5192.899
32.5	5190.741	5156.208	5174.553	5227.432	5272.756	5302.973	5323.477	5365.564	5381.751	5345.060
35.0	5373.118	5318.081	5319.160	5445.421	5464.846	5483.192	5486.429	5546.862	5546.862	5531.754
37.5	5673.123	5632.115	5599.741	5713.052	5743.268	5727.081	5707.656	5729.239	5722.764	5728.160
40.0	6060.540	6022.770	5977.445	6061.619	6113.419	6034.641	6007.662	5900.825	5909.458	5952.625
42.5	6465.224	6426.374	6408.029	6497.599	6574.219	6423.137	6355.150	6102.627	6126.369	6197.593
45.0	6945.448	6929.261	6920.628	7011.277	7094.372	6902.282	6799.762	6487.886	6399.395	6496.519
47.5	7519.559	7476.393	7499.055	7642.583	7590.784	7462.364	7364.161	7017.752	6779.258	6861.274
50.0	8118.491	8054.821	8064.533	8290.077	8159.499	8075.325	8000.863	7697.620	7301.570	7294.016
52.5	8918.146	8900.879	8688.285	8863.109	8776.776	8735.768	8721.739	8551.232	7951.222	7768.844
55.0	10271.407	10099.821	9649.813	9531.106	9467.436	9538.660	9636.863	9491.177	8700.156	8345.114
57.5	11647.331	11634.381	11055.954	10475.368	10219.608	10557.384	10801.273	10414.935	9494.415	8919.225
60.0	12327.199	12329.358	12366.049	11727.189	11121.782	11842.658	12270.004	11462.795	10215.291	9306.642
62.5	12896.994	13026.493	13382.614	13232.611	12381.157	13657.799	14337.667	12588.355	10617.816	9387.578
65.0	13668.590	13889.817	15035.881	15026.169	14186.585	16635.190	17440.241	13876.868	10314.573	9076.781
67.5	12988.722	13249.878	16021.151	17619.381	16800.301	20949.656	21643.554	14629.039	1158.797	8278.206
70.0	10519.613	10572.492	14540.548	19356.822	19380.563	25145.415	25334.267	13027.572	1100.847	6307.667
72.0	7665.245	7795.823	11791.938	18244.212	19375.168	26313.062	25870.608	9102.681	5021.313	3673.447
72.5	6738.250	6868.828	10871.418	17631.251	19043.867	26067.014	25607.294	7935.034	4510.872	3055.091
75.0	2643.932	2604.004	4764.474	10953.434	14200.614	20036.690	15935.897	3189.985	2687.099	1413.694
77.5	1716.937	1671.613	1528.085	3133.869	5335.347	6303.350	3208.331	1272.325	1475.206	906.491
80.0	1115.847	1250.742	928.074	1422.328	1862.623	1546.431	1097.502	725.193	854.692	596.773
82.5	567.636	683.106	546.053	713.322	780.230	610.802	590.298	415.475	447.850	335.618
85.0	239.573	319.430	223.385	270.868	298.926	220.148	220.148	172.665	185.615	138.132
87.5	59.354	86.332	34.533	34.533	51.799	32.375	26.979	29.137	29.137	21.583
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	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286	4339.286
2.5	4384.611	4344.682	4315.545	4260.508	4194.680	4138.563	4078.131	4043.598	3992.877	3976.690
5.0	4354.395	4274.537	4204.392	4073.814	3945.394	3840.716	3742.513	3687.476	3630.281	3609.777
7.5	4340.366	4225.975	4115.901	3918.416	3743.592	3611.935	3515.890	3467.328	3434.954	3430.637
10.0	4330.653	4179.571	4031.727	3772.730	3572.006	3450.062	3379.917	3373.442	3388.550	3419.845
12.5	4326.337	4135.326	3947.553	3631.360	3426.320	3335.671	3318.405	3361.571	3439.270	3526.682
15.0	4336.049	4100.793	3872.012	3501.861	3302.217	3248.260	3286.030	3383.154	3514.811	3643.231
17.5	4342.524	4068.418	3801.867	3385.313	3198.619	3179.194	3243.943	3373.442	3506.178	3634.598
20.0	4347.920	4037.123	3739.276	3282.793	3113.365	3117.682	3181.352	3283.872	3393.946	3525.603
22.5	4364.107	4014.460	3679.922	3187.827	3043.220	3060.487	3089.624	3150.056	3246.101	3373.442
25.0	4395.403	4006.906	3629.202	3110.128	2988.183	3001.133	2975.233	3013.004	3082.070	3208.331

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CANDELA TABULATION - (Cont.)

27.5	4453.677	4017.698	3594.669	3052.932	2947.175	2926.671	2868.397	2880.267	2941.779	3049.695
30.0	4541.089	4054.389	3582.798	3011.925	2915.880	2844.655	2773.431	2768.035	2811.201	2911.563
32.5	4661.954	4116.980	3588.194	2982.787	2893.217	2769.114	2687.099	2662.278	2701.128	2831.705
35.0	4815.194	4203.313	3611.935	2965.521	2870.555	2705.444	2607.241	2560.837	2640.695	2789.618
37.5	5007.284	4316.624	3659.418	2969.837	2831.705	2646.091	2516.592	2498.246	2601.845	2764.798
40.0	5259.807	4484.973	3743.592	3002.212	2786.381	2594.291	2435.655	2462.634	2564.075	2759.402
42.5	5572.762	4723.466	3875.249	3042.141	2755.085	2557.600	2391.410	2423.784	2537.096	2756.165
45.0	5945.071	5021.313	4070.577	3076.674	2742.136	2523.067	2377.381	2383.856	2513.354	2733.502
47.5	6386.445	5409.809	4324.178	3107.969	2737.819	2489.613	2352.560	2345.006	2478.821	2601.845
50.0	6892.570	5882.480	4624.184	3161.927	2742.136	2451.843	2313.711	2302.919	2337.452	2541.412
52.5	7437.543	6365.941	4959.801	3273.080	2764.798	2434.576	2271.623	2252.199	2211.191	2511.196
55.0	8075.325	7123.509	5572.762	3395.025	2791.777	2470.188	2277.019	2160.470	2159.391	2447.526
57.5	9064.911	8253.385	6146.873	3504.020	2902.930	2611.558	2404.360	2202.557	2207.953	2380.618
60.0	10149.463	8859.871	6548.319	3713.376	3031.349	2697.890	2513.354	2312.631	2381.697	2419.468
62.5	10145.146	8882.533	6964.873	3866.616	3030.270	2674.149	2472.346	2278.098	2516.592	2393.568
65.0	9446.932	8513.462	6759.833	3758.700	3011.925	2673.070	2374.143	2064.426	2374.143	2204.716
67.5	7024.227	6138.240	4597.205	2827.389	2757.244	2647.170	2275.940	1858.307	2111.908	2013.705
70.0	3380.996	2690.336	1953.272	1550.747	1961.906	2428.101	2224.141	1671.613	1866.940	1919.819
72.0	1712.621	1348.945	1132.035	1015.486	1252.900	2046.080	2195.003	1500.027	1610.101	1757.945
72.5	1594.993	1215.130	1039.227	949.657	1122.322	1991.043	2174.499	1454.702	1538.877	1705.067
75.0	950.736	799.655	714.401	689.581	753.251	1312.254	1871.257	1232.396	1195.705	1395.349
77.5	635.623	540.657	503.966	491.016	540.657	770.517	1414.774	1055.415	942.103	1072.681
80.0	423.029	356.121	336.697	337.776	374.467	492.095	903.254	815.842	727.351	821.238
82.5	239.573	193.169	187.773	200.723	227.702	289.214	486.699	595.694	532.024	614.040
85.0	98.203	74.462	72.303	80.937	100.362	130.578	229.860	285.976	257.918	283.818
87.5	15.108	10.792	9.712	12.950	20.504	29.137	60.433	65.829	60.433	56.116
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

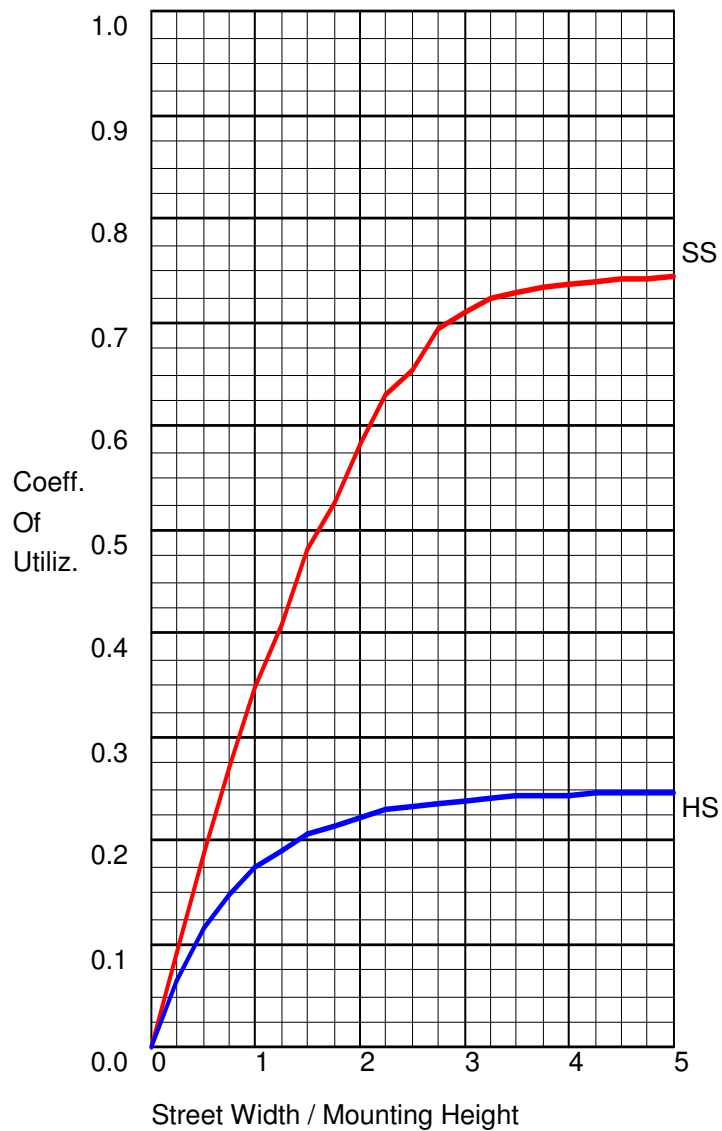
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	4339.286	4339.286
2.5	3965.898	3978.848
5.0	3597.906	3606.539
7.5	3427.400	3429.558
10.0	3438.191	3436.033
12.5	3574.165	3572.006
15.0	3710.138	3711.218
17.5	3704.743	3713.376
20.0	3606.539	3620.569
22.5	3459.774	3479.199
25.0	3302.217	3318.405
27.5	3144.661	3160.848
30.0	3018.399	3032.428
32.5	2955.808	2974.154
35.0	2919.117	2938.542
37.5	2919.117	2932.067
40.0	2936.384	2939.621
42.5	2933.146	2937.463
45.0	2861.922	2859.764
47.5	2778.827	2791.777
50.0	2802.568	2816.597
52.5	2811.201	2818.756
55.0	2756.165	2766.956
57.5	2680.624	2695.732
60.0	2599.687	2613.716

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-730-T4-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	2458.317	2476.663
65.0	2258.674	2302.919
67.5	2048.238	2120.542
70.0	1824.853	1923.056
72.0	1654.346	1755.787
72.5	1609.022	1707.225
75.0	1340.312	1422.328
77.5	1115.847	1224.842
80.0	1032.752	1124.481
82.5	574.111	619.436
85.0	202.881	194.248
87.5	26.979	6.475
90.0	0.000	0.000

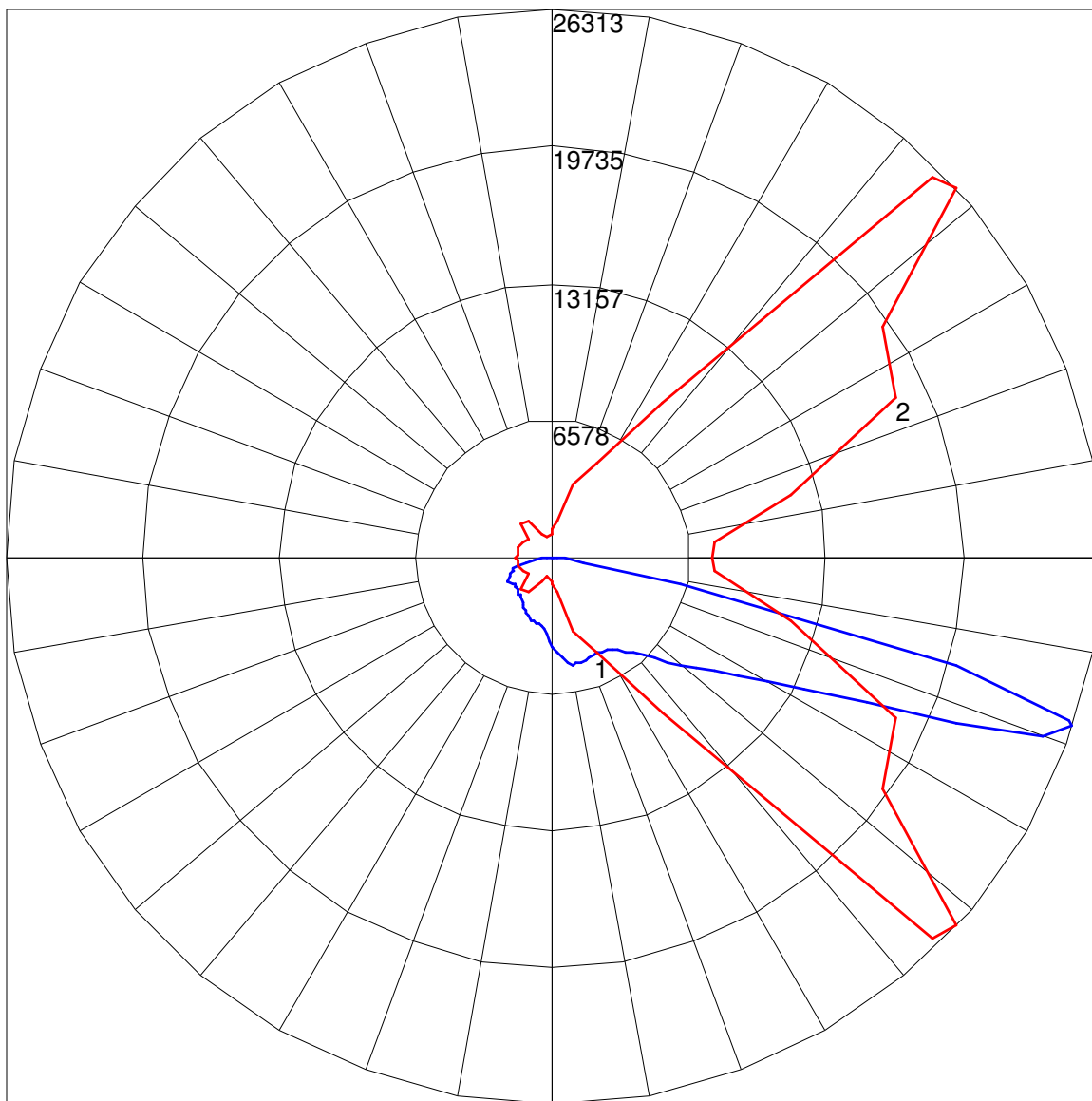
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

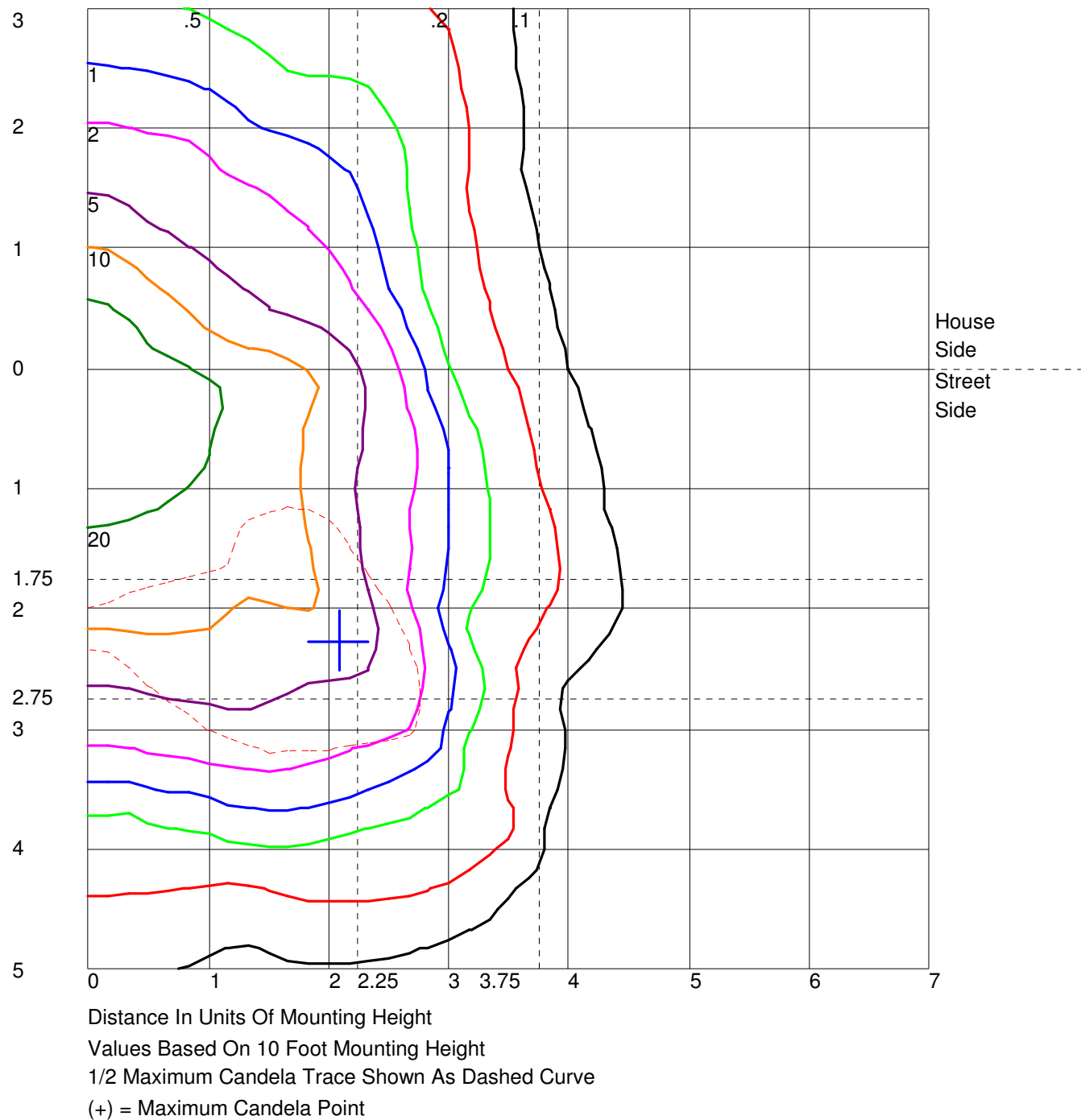
	Lumens	Percent Of Luminaire
Downward Street Side	20686.0	74.9
Downward House Side	6935.3	25.1
Downward Total	27621.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	27621.3	100.0

POLAR GRAPH

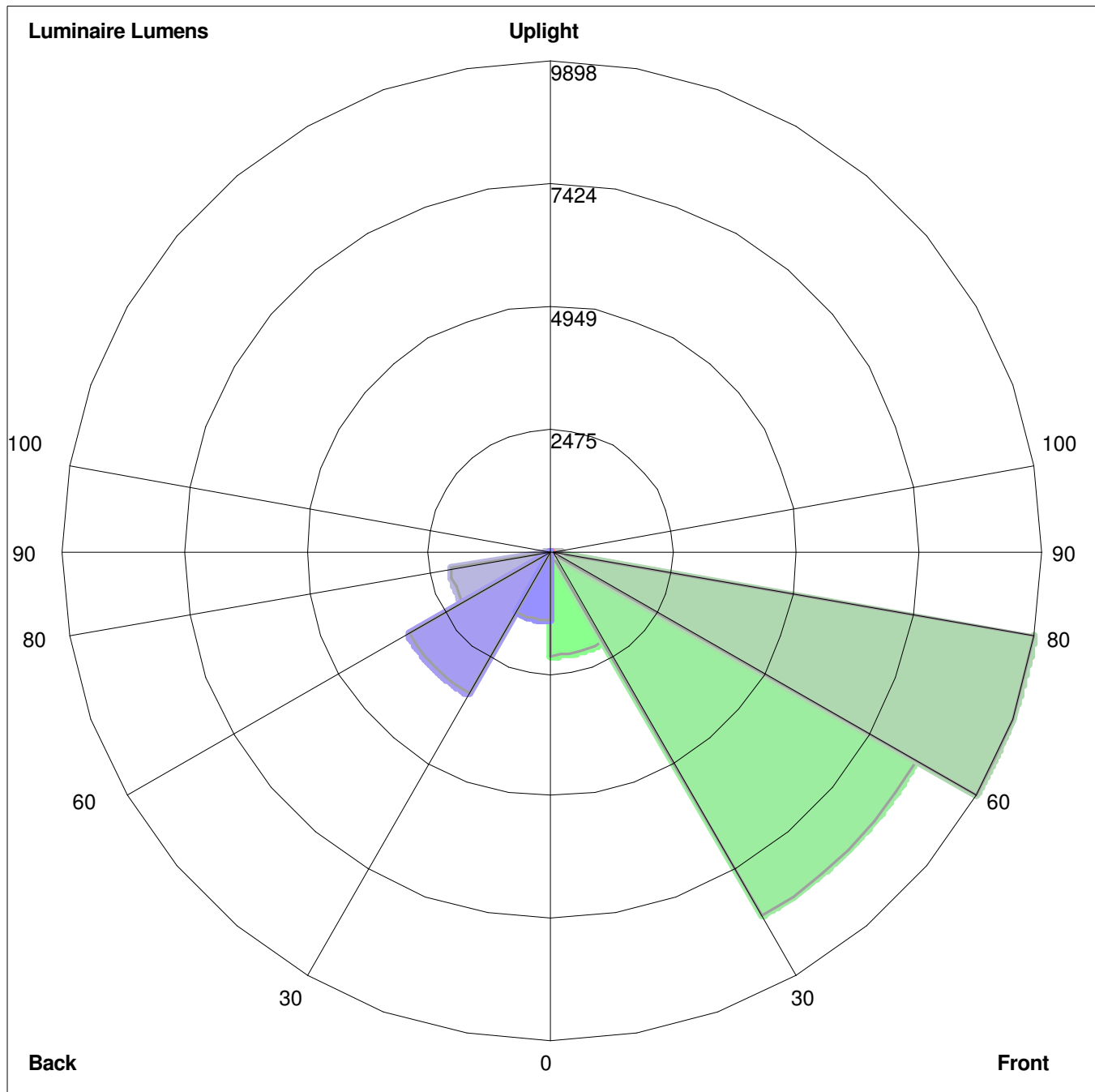


Maximum Candela = 26313.062 Located At Horizontal Angle = 42.5, Vertical Angle = 72
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 2110.0, Medium=8503.9, High= 9898.0, Very High=174.0
Back: Low= 1400.0, Medium=3336.9, High=2068.1, Very High=130.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4