



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-740-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-L280-740-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	28531
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	27179.973
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	27179.973
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	1923.989 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-740-T4-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2179.6	N.A.	7.6
FM - Front-Medium (30-60)	8784.1	N.A.	30.8
FH - Front-High (60-80)	10224.1	N.A.	35.8
FVH - Front-Very High (80-90)	179.8	N.A.	0.6
BL - Back-Low (0-30)	1446.1	N.A.	5.1
BM - Back-Medium (30-60)	3446.8	N.A.	12.1
BH - Back-High (60-80)	2136.3	N.A.	7.5
BVH - Back-Very High (80-90)	134.7	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	28531.5	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	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249
2.5	4816.662	4806.629	4820.006	4798.826	4753.123	4745.320	4724.141	4694.044	4634.964	4587.032
5.0	5212.384	5216.843	5224.646	5188.975	5128.781	5049.636	5029.571	4925.903	4786.565	4646.111
7.5	5434.211	5442.014	5447.588	5439.785	5378.476	5303.790	5277.037	5122.092	4924.789	4711.879
10.0	5483.258	5494.405	5499.979	5513.356	5496.635	5429.752	5408.573	5245.825	5045.177	4779.876
12.5	5470.997	5479.914	5477.685	5501.094	5511.126	5454.276	5435.326	5306.019	5136.584	4846.759
15.0	5439.785	5443.129	5431.982	5455.391	5482.144	5434.211	5414.146	5336.117	5206.810	4925.903
17.5	5401.885	5398.540	5386.279	5407.458	5423.064	5397.426	5387.393	5363.984	5273.693	4995.015
20.0	5321.625	5316.052	5327.199	5362.870	5365.099	5347.264	5346.149	5386.279	5274.808	5031.801
22.5	5211.269	5207.925	5283.725	5322.740	5301.561	5297.102	5310.478	5337.231	5261.431	5083.077
25.0	5131.010	5138.813	5275.922	5264.775	5244.710	5272.578	5295.987	5289.299	5280.381	5146.616
27.5	5125.436	5154.419	5262.546	5240.252	5233.563	5288.184	5316.052	5303.790	5326.084	5236.907
30.0	5220.187	5229.104	5268.119	5263.660	5298.217	5352.837	5375.131	5392.967	5417.490	5363.984
32.5	5361.755	5326.084	5345.034	5399.655	5446.473	5477.685	5498.864	5542.338	5559.059	5521.158
35.0	5550.141	5493.291	5494.405	5624.827	5644.891	5663.841	5667.186	5729.609	5729.609	5714.003
37.5	5860.030	5817.671	5784.230	5901.275	5932.486	5915.766	5895.701	5917.995	5911.307	5916.881
40.0	6260.211	6221.196	6174.379	6261.326	6314.832	6233.458	6205.590	6095.234	6104.152	6148.740
42.5	6678.227	6638.098	6619.148	6711.669	6790.813	6634.754	6564.527	6303.685	6328.209	6401.779
45.0	7174.273	7157.553	7148.635	7242.271	7328.103	7129.685	7023.788	6701.636	6610.230	6710.554
47.5	7767.299	7722.711	7746.120	7894.376	7840.870	7708.219	7606.781	7248.959	7002.608	7087.326
50.0	8385.963	8320.195	8330.228	8563.202	8428.322	8341.375	8264.460	7951.226	7542.128	7534.325
52.5	9211.963	9194.128	8974.530	9155.113	9065.936	9023.577	9009.086	8832.962	8213.183	8024.797
55.0	10609.810	10432.571	9967.737	9845.118	9779.351	9852.921	9954.360	9803.874	8986.792	8620.052
57.5	12031.065	12017.688	11420.204	10820.490	10556.303	10905.208	11157.132	10758.066	9807.218	9213.078
60.0	12733.332	12735.561	12773.462	12113.553	11488.201	12232.827	12674.252	11840.449	10551.845	9613.259
62.5	13321.899	13455.664	13823.518	13668.574	12789.068	14107.769	14810.037	13003.092	10967.631	9696.862
65.0	14118.917	14347.432	15531.254	15521.222	14653.977	17183.254	18014.828	14334.056	10654.398	9375.826
67.5	13416.649	13686.409	16548.984	18199.870	17353.805	21639.865	22356.623	15111.008	9460.544	8550.940
70.0	10866.193	10920.814	15019.602	19994.553	20019.076	25973.857	26168.931	13456.779	7334.792	6515.480
72.0	7917.785	8052.665	12180.436	18845.287	20013.503	27179.973	26722.942	9402.579	5186.746	3794.473
72.5	6960.249	7095.129	11229.588	18212.132	19671.287	26925.819	26450.953	196.462	4659.488	3155.744
75.0	2731.039	2689.795	4921.445	11314.306	14668.469	20696.820	16460.922	23295.083	2775.628	1460.270
77.5	1773.504	1726.686	1578.429	3237.118	5511.126	6511.021	3314.033	1314.243	1523.809	936.356
80.0	1152.610	1291.949	958.651	1469.188	1923.989	1597.379	1133.660	749.085	882.850	616.435
82.5	586.337	705.611	564.043	736.823	805.935	630.926	609.746	429.163	462.605	346.675
85.0	247.466	329.954	230.745	279.792	308.775	227.401	227.401	178.354	191.730	142.683
87.5	61.309	89.177	35.671	35.671	53.506	33.441	27.868	30.097	30.097	22.294
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	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249	4482.249
2.5	4529.067	4487.822	4457.725	4400.875	4332.878	4274.913	4212.489	4176.818	4124.427	4107.706
5.0	4497.855	4415.366	4342.910	4208.030	4075.380	3967.253	3865.814	3808.964	3749.884	3728.705
7.5	4483.364	4365.204	4251.504	4047.512	3866.929	3730.934	3631.725	3581.563	3548.122	3543.663
10.0	4473.331	4317.272	4164.556	3897.026	3689.690	3563.728	3491.272	3484.583	3500.189	3532.516
12.5	4468.872	4271.569	4077.609	3750.999	3539.204	3445.569	3427.733	3472.322	3552.581	3642.872
15.0	4478.905	4235.898	3999.579	3617.234	3411.013	3355.277	3394.292	3494.616	3630.610	3763.261
17.5	4485.593	4202.457	3927.123	3496.845	3304.000	3283.936	3350.818	3484.583	3621.693	3754.343
20.0	4491.166	4170.130	3862.470	3390.948	3215.938	3220.397	3286.165	3392.062	3505.763	3641.757
22.5	4507.887	4146.721	3801.161	3292.853	3143.482	3161.317	3191.415	3253.838	3353.048	3484.583
25.0	4540.214	4138.918	3748.770	3212.594	3086.632	3100.008	3073.255	3112.270	3183.612	3314.033

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CANDELA TABULATION - (Cont.)

27.5	4600.408	4150.065	3713.099	3153.515	3044.273	3023.093	2962.899	2975.161	3038.699	3150.170
30.0	4690.700	4187.965	3700.837	3111.156	3011.946	2938.375	2864.805	2859.231	2903.819	3007.488
32.5	4815.547	4252.619	3706.411	3081.058	2988.537	2860.346	2775.628	2749.990	2790.119	2924.999
35.0	4973.836	4341.795	3730.934	3063.223	2965.129	2794.578	2693.139	2645.207	2727.695	2881.525
37.5	5172.254	4458.840	3779.982	3067.682	2924.999	2733.269	2599.504	2580.554	2687.566	2855.887
40.0	5433.096	4632.735	3866.929	3101.123	2878.181	2679.763	2515.900	2543.768	2648.551	2850.313
42.5	5756.362	4879.086	4002.924	3142.367	2845.855	2641.863	2470.197	2503.639	2620.683	2846.969
45.0	6140.937	5186.746	4204.686	3178.038	2832.478	2606.192	2455.706	2462.394	2596.160	2823.560
47.5	6596.854	5588.041	4466.643	3210.365	2828.019	2571.636	2430.068	2422.265	2560.489	2687.566
50.0	7119.653	6076.284	4776.532	3266.100	2832.478	2532.621	2389.938	2378.791	2414.462	2625.142
52.5	7682.581	6575.674	5123.207	3380.915	2855.887	2514.786	2346.464	2326.400	2284.041	2593.930
55.0	8341.375	7358.201	5756.362	3506.878	2883.755	2551.571	2352.038	2231.649	2230.535	2528.162
57.5	9363.564	8525.302	6349.388	3619.463	2998.570	2697.598	2483.574	2275.123	2280.697	2459.050
60.0	10483.847	9151.769	6764.060	3835.717	3131.220	2786.775	2596.160	2388.823	2460.165	2499.180
62.5	10479.388	9175.178	7194.338	3994.006	3130.106	2762.251	2553.801	2353.153	2599.504	2472.427
65.0	9758.171	8793.947	6982.543	3882.535	3111.156	2761.137	2452.362	2132.440	2452.362	2277.352
67.5	7255.647	6340.470	4748.664	2920.540	2848.084	2734.384	2350.923	1919.531	2181.487	2080.049
70.0	3492.386	2778.972	2017.625	1601.838	2026.543	2508.097	2297.417	1726.686	1928.448	1983.069
72.0	1769.045	1393.387	1169.331	1048.942	1294.178	2113.490	2267.320	1549.447	1663.147	1815.863
72.5	1647.541	1255.163	1073.466	980.945	1159.298	2056.640	2246.141	1502.629	1589.576	1761.242
75.0	982.059	826.000	737.938	712.300	778.068	1355.487	1932.907	1272.999	1235.099	1441.320
77.5	656.564	558.470	520.570	507.193	558.470	795.903	1461.385	1090.186	973.142	1108.022
80.0	436.966	367.854	347.790	348.904	386.804	508.308	933.012	842.721	751.315	848.294
82.5	247.466	199.533	193.960	207.336	235.204	298.742	502.734	615.320	549.552	634.270
85.0	101.439	76.915	74.686	83.603	103.668	134.880	237.433	295.398	266.416	293.169
87.5	15.606	11.147	10.032	13.377	21.179	30.097	62.424	67.997	62.424	57.965
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

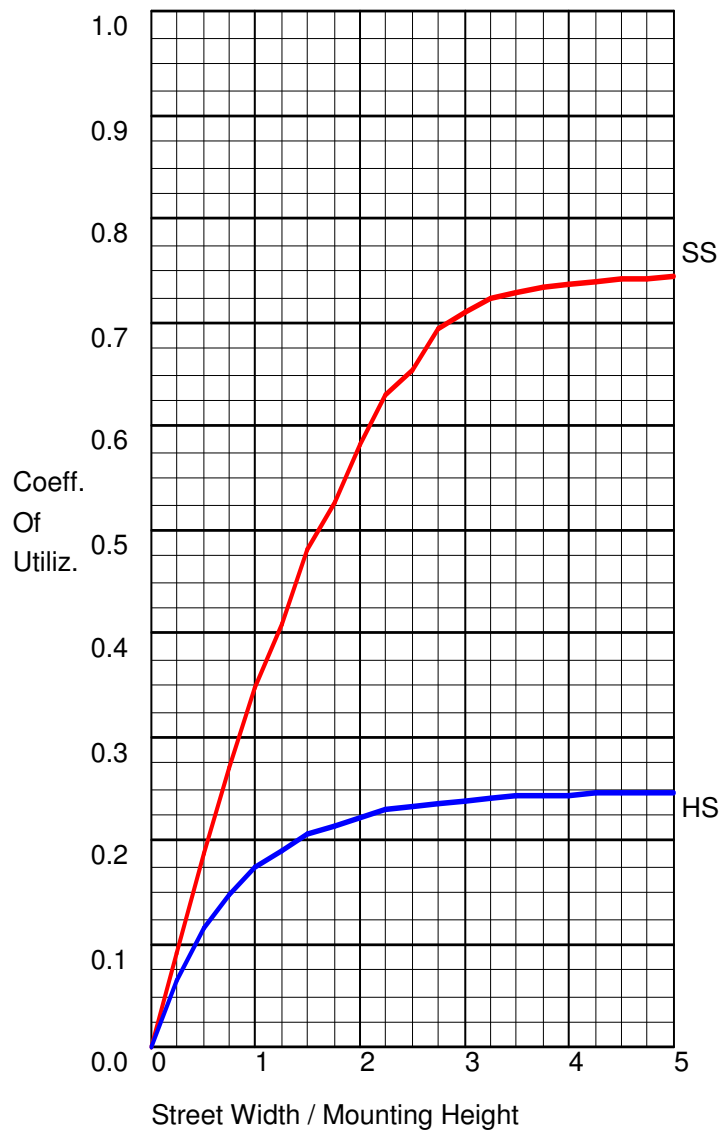
	<u>175.0</u>	<u>180.0</u>
0.0	4482.249	4482.249
2.5	4096.559	4109.936
5.0	3716.443	3725.361
7.5	3540.319	3542.548
10.0	3551.466	3549.237
12.5	3691.919	3689.690
15.0	3832.373	3833.488
17.5	3826.799	3835.717
20.0	3725.361	3739.852
22.5	3573.760	3593.825
25.0	3411.013	3427.733
27.5	3248.265	3264.986
30.0	3117.844	3132.335
32.5	3053.191	3072.141
35.0	3015.290	3035.355
37.5	3015.290	3028.667
40.0	3033.126	3036.470
42.5	3029.782	3034.241
45.0	2956.211	2953.981
47.5	2870.378	2883.755
50.0	2894.902	2909.393
52.5	2903.819	2911.622
55.0	2846.969	2858.116
57.5	2768.940	2784.546
60.0	2685.336	2699.828

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CANDELA TABULATION - (Cont.)

62.5	2539.309	2558.259
65.0	2333.088	2378.791
67.5	2115.720	2190.405
70.0	1884.975	1986.413
72.0	1708.850	1813.633
72.5	1662.033	1763.471
75.0	1384.470	1469.188
77.5	1152.610	1265.196
80.0	1066.777	1161.528
82.5	593.026	639.844
85.0	209.565	200.648
87.5	27.868	6.688
90.0	0.000	0.000

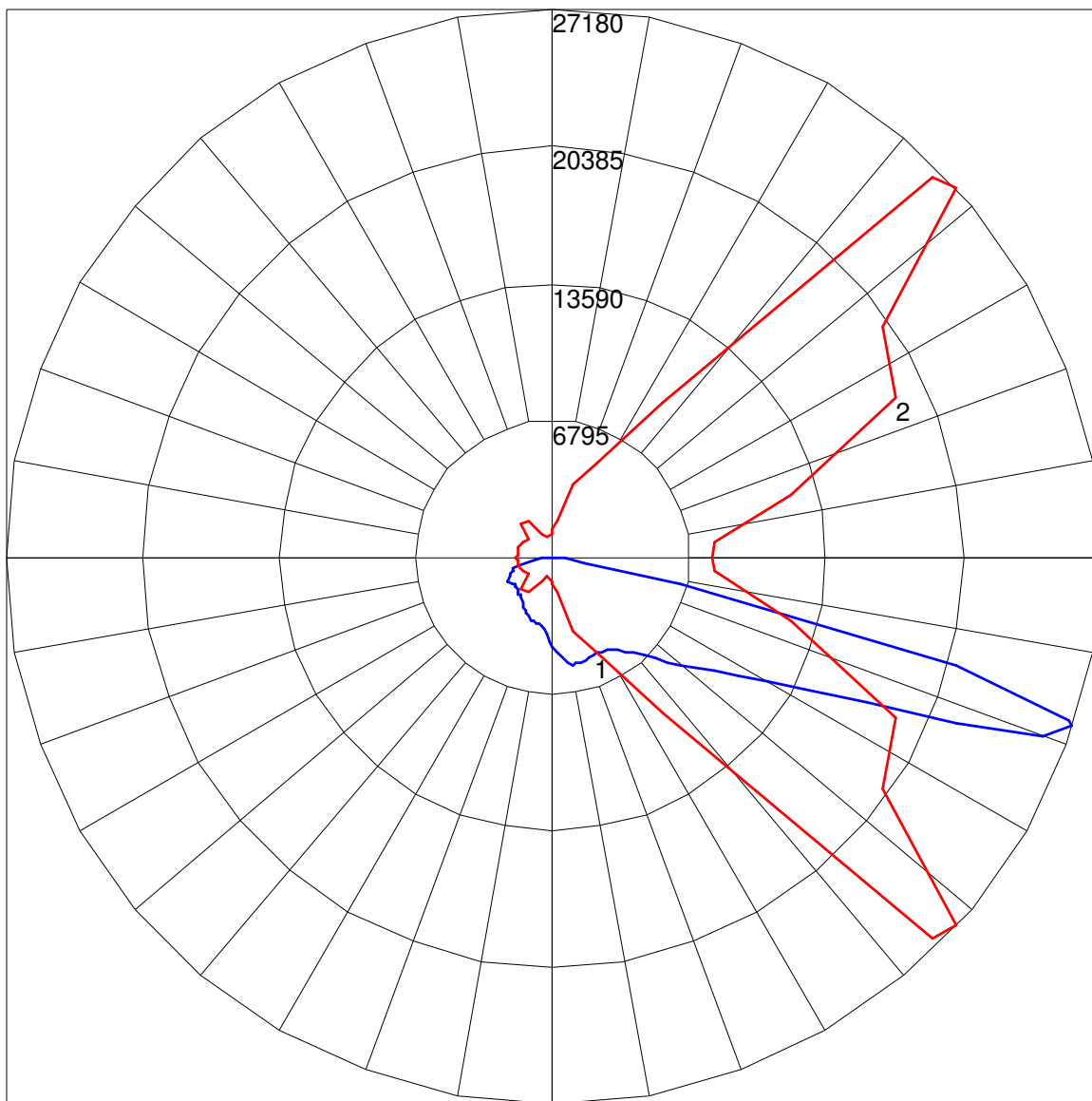
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

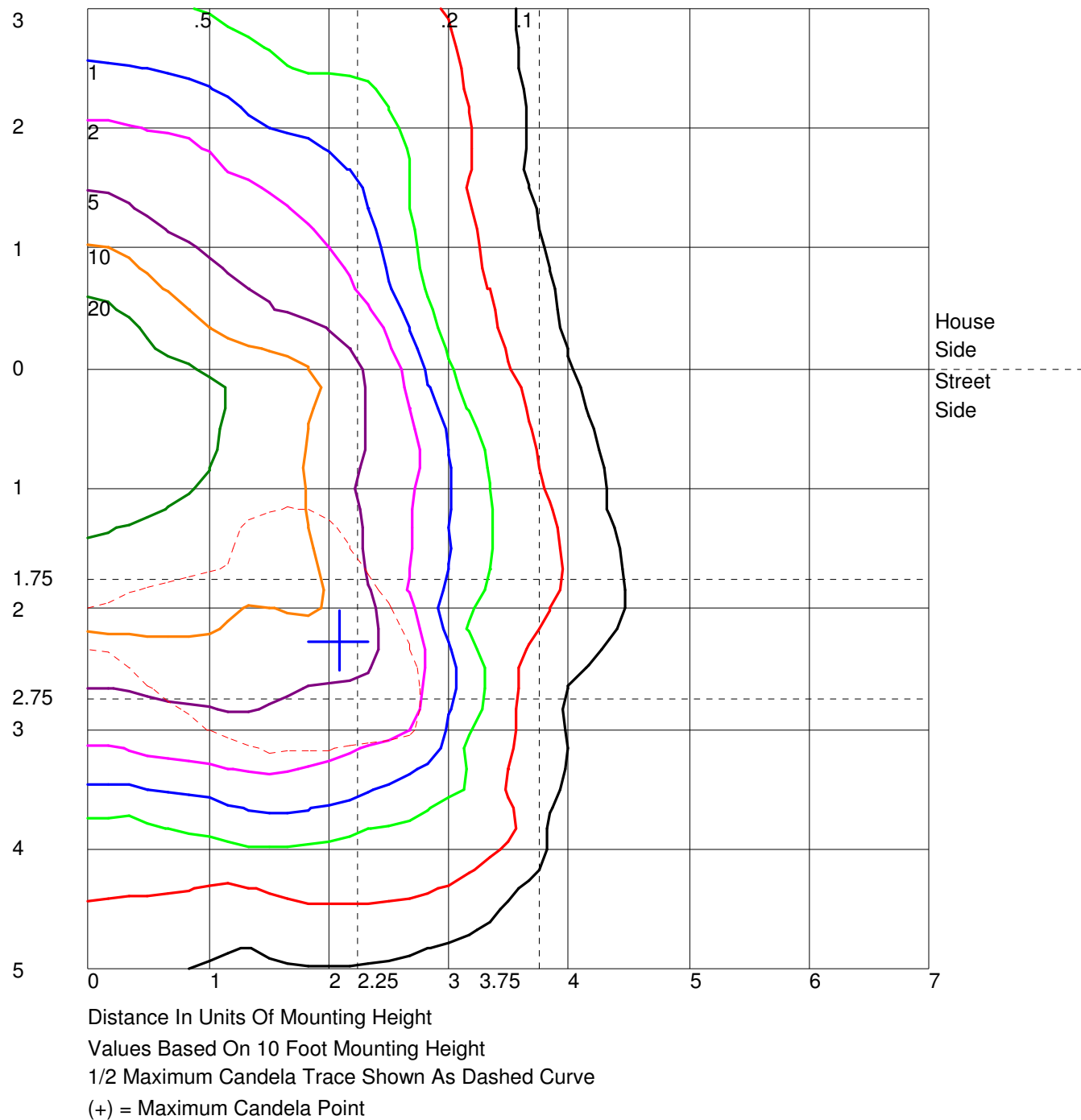
	Lumens	Percent Of Luminaire
Downward Street Side	21367.5	74.9
Downward House Side	7163.8	25.1
Downward Total	28531.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	28531.3	100.0

POLAR GRAPH

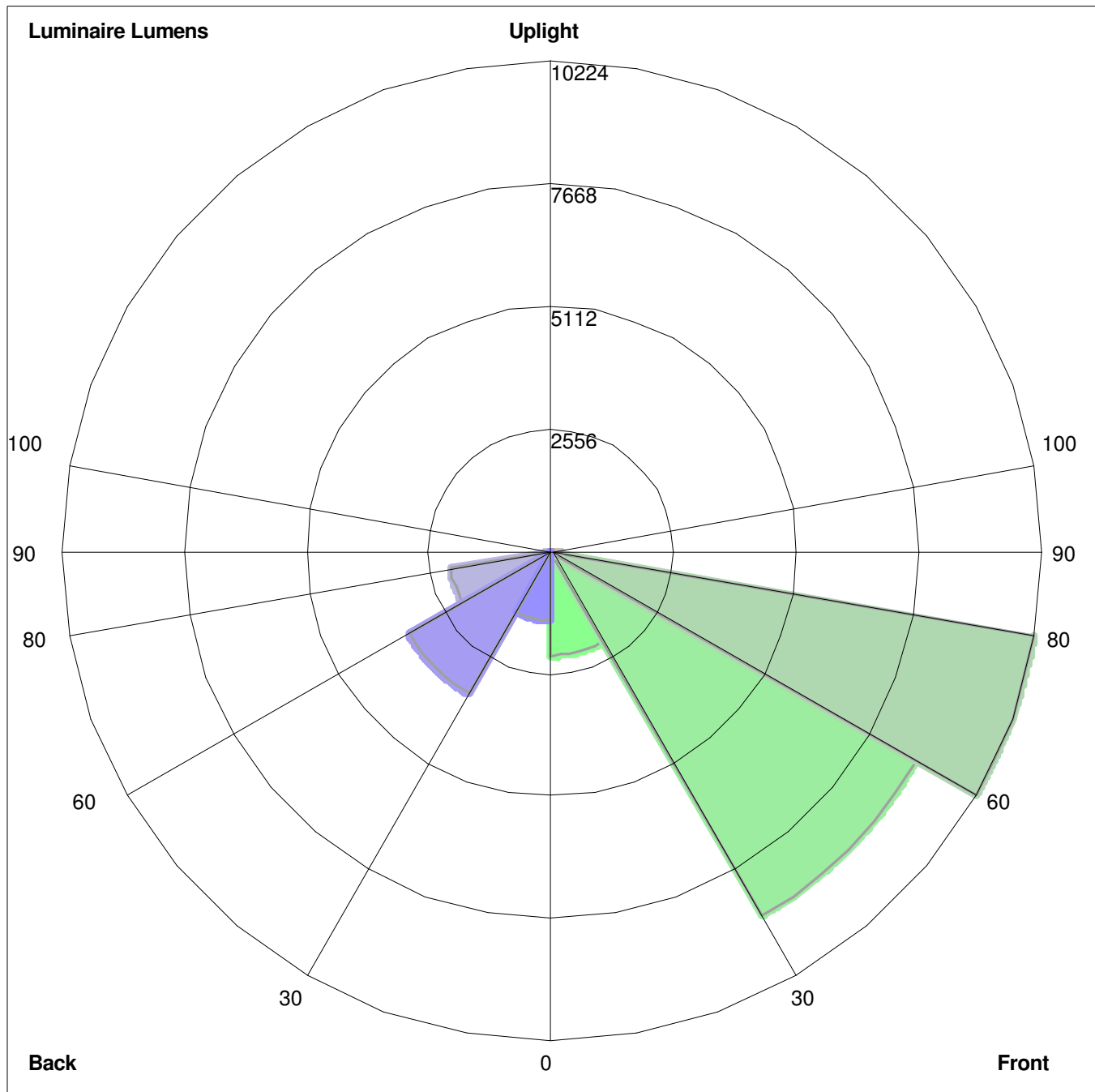


Maximum Candela = 27179.973 Located At Horizontal Angle = 42.5, Vertical Angle = 72
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2179.6, Medium=8784.1, High=10224.1, Very High=179.8
Back: Low=1446.1, Medium=3446.8, High=2136.3, Very High=134.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4