



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-740-T4-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011773
[TESTLAB] ATAL-LABS
[ISSUEDATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-740-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] 4000K 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	30099
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	319
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	28673.725
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	28673.725
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	2029.728 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-740-T4-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2299.3	N.A.	7.6
FM - Front-Medium (30-60)	9266.9	N.A.	30.8
FH - Front-High (60-80)	10786.0	N.A.	35.8
FVH - Front-Very High (80-90)	189.6	N.A.	0.6
BL - Back-Low (0-30)	1525.6	N.A.	5.1
BM - Back-Medium (30-60)	3636.2	N.A.	12.1
BH - Back-High (60-80)	2253.7	N.A.	7.5
BVH - Back-Very High (80-90)	142.1	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	30099.4	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	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583
2.5	5081.375	5070.791	5084.903	5062.559	5014.345	5006.113	4983.769	4952.018	4889.692	4839.125
5.0	5498.845	5503.549	5511.781	5474.150	5410.647	5327.153	5305.986	5196.620	5049.624	4901.451
7.5	5732.863	5741.095	5746.975	5738.743	5674.065	5595.275	5567.051	5403.591	5195.444	4970.834
10.0	5784.606	5796.366	5802.246	5816.357	5798.718	5728.160	5705.816	5534.124	5322.449	5042.568
12.5	5771.671	5781.078	5778.726	5803.422	5814.005	5754.031	5734.039	5597.627	5418.879	5113.126
15.0	5738.743	5742.271	5730.511	5755.207	5783.430	5732.863	5711.696	5629.378	5492.965	5196.620
17.5	5698.760	5695.232	5682.297	5704.640	5721.104	5694.056	5683.473	5658.777	5563.523	5269.530
20.0	5614.090	5608.210	5619.970	5657.601	5659.953	5641.138	5639.962	5682.297	5564.699	5308.338
22.5	5497.669	5494.141	5574.107	5615.266	5592.923	5588.219	5602.331	5630.554	5550.588	5362.432
25.0	5412.999	5421.231	5565.875	5554.116	5532.948	5562.347	5587.043	5579.987	5570.579	5429.463
27.5	5407.119	5437.694	5551.764	5528.244	5521.188	5578.811	5608.210	5595.275	5618.794	5524.716
30.0	5507.077	5516.485	5557.644	5552.940	5589.395	5647.017	5670.537	5689.352	5715.224	5658.777
32.5	5656.425	5618.794	5638.786	5696.408	5745.799	5778.726	5801.070	5846.933	5864.572	5824.589
35.0	5855.165	5795.190	5796.366	5933.955	5955.122	5975.114	5978.642	6044.496	6044.496	6028.032
37.5	6182.085	6137.398	6102.119	6225.596	6258.523	6240.883	6219.716	6243.235	6236.179	6242.059
40.0	6604.259	6563.100	6513.709	6605.435	6661.881	6576.035	6546.636	6430.215	6439.623	6486.661
42.5	7045.248	7002.913	6982.922	7080.527	7164.021	6999.385	6925.299	6650.122	6675.993	6753.607
45.0	7568.556	7550.916	7541.508	7640.290	7730.840	7521.517	7409.799	7069.944	6973.514	7079.351
47.5	8194.173	8147.134	8171.829	8328.234	8271.787	8131.846	8024.833	7647.346	7387.456	7476.830
50.0	8846.837	8777.455	8788.039	9033.817	8891.524	8799.798	8718.656	8388.208	7956.626	7948.395
52.5	9718.232	9699.417	9467.750	9658.258	9564.180	9519.493	9504.206	9318.402	8664.562	8465.822
55.0	11192.901	11005.922	110515.541	110386.185	10316.802	10394.416	10501.430	10342.674	9480.686	9093.791
57.5	12692.266	12678.154	12047.833	11415.160	11136.455	11504.534	11770.304	11349.306	10346.202	9719.408
60.0	13433.128	13435.480	13475.463	12779.288	12119.567	12905.117	13370.801	12491.174	11131.751	10141.582
62.5	14054.041	14195.158	14583.229	14419.768	13491.927	14883.101	15623.964	13717.713	11570.388	10229.780
65.0	14894.861	15135.935	16384.818	16374.234	15459.328	18127.608	19004.883	15121.824	11239.940	9891.100
67.5	14153.999	14438.584	17458.480	19200.095	18307.532	22829.144	23585.294	15941.476	9980.474	9020.881
70.0	11463.375	11520.998	15845.047	21093.409	21119.281	27401.323	27607.118	14196.334	7737.896	6873.556
72.0	8352.929	8495.222	12849.846	19880.982	21113.401	28673.725	28191.576	9919.324	5471.798	4003.009
72.5	7342.769	7485.062	11846.742	19213.030	20752.378	28405.603	27904.639	8646.922	4915.563	3329.177
75.0	2881.131	2837.620	5191.916	11936.116	15474.615	21834.272	217365.578	3476.173	2928.170	1540.523
77.5	1870.971	1821.581	1665.176	3415.023	5814.005	6868.852	3496.165	1386.471	1607.554	987.816
80.0	1215.955	1362.952	1011.336	1549.931	2029.728	1685.168	1195.964	790.253	931.370	650.313
82.5	618.561	744.390	595.042	777.317	850.228	665.600	643.257	452.749	488.028	365.727
85.0	261.066	348.088	243.426	295.169	325.744	239.898	239.898	188.156	202.267	150.524
87.5	64.678	94.078	37.631	37.631	56.447	35.279	29.399	31.751	31.751	23.519
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	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583	4728.583
2.5	4777.974	4734.463	4702.712	4642.737	4571.003	4509.853	4443.998	4406.367	4351.096	4333.457
5.0	4745.047	4658.025	4581.587	4439.294	4299.354	4185.284	4078.271	4018.296	3955.970	3933.626
7.5	4729.759	4605.106	4485.157	4269.954	4079.447	3935.978	3831.317	3778.398	3743.119	3738.415
10.0	4719.176	4554.539	4393.431	4111.198	3892.467	3759.582	3683.144	3676.088	3692.552	3726.655
12.5	4714.472	4506.325	4301.706	3957.146	3733.711	3634.929	3616.114	3663.153	3747.823	3843.076
15.0	4725.055	4468.694	4219.387	3816.029	3598.474	3539.676	3580.835	3686.672	3830.141	3970.081
17.5	4732.111	4433.414	4142.949	3689.024	3485.581	3464.413	3534.972	3676.088	3820.733	3960.674
20.0	4737.991	4399.311	4074.743	3577.307	3392.679	3397.383	3466.765	3578.483	3698.432	3841.900
22.5	4755.631	4374.616	4010.064	3473.821	3316.241	3335.057	3366.808	3432.662	3537.324	3676.088
25.0	4789.734	4366.384	3954.794	3389.151	3256.266	3270.378	3242.155	3283.314	3358.576	3496.165

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CANDELA TABULATION - (Cont.)

27.5	4853.236	4378.144	3917.163	3326.825	3211.579	3189.236	3125.734	3138.669	3205.700	3323.297
30.0	4948.490	4418.127	3904.227	3282.138	3177.476	3099.862	3022.248	3016.368	3063.407	3172.772
32.5	5080.199	4486.333	3910.107	3250.387	3152.781	3017.544	2928.170	2901.123	2943.458	3085.750
35.0	5247.187	4580.411	3935.978	3231.571	3128.085	2948.162	2841.148	2790.582	2877.603	3039.888
37.5	5456.510	4703.888	3987.721	3236.275	3085.750	2883.483	2742.367	2722.375	2835.268	3012.840
40.0	5731.687	4887.340	4079.447	3271.554	3036.360	2827.037	2654.169	2683.568	2794.109	3006.960
42.5	6072.719	5147.229	4222.915	3315.065	3002.256	2787.054	2605.954	2641.233	2764.710	3003.432
45.0	6478.430	5471.798	4435.766	3352.696	2988.145	2749.423	2590.666	2597.722	2738.839	2978.737
47.5	6959.402	5895.148	4712.120	3386.799	2983.441	2712.967	2563.619	2555.387	2701.208	2835.268
50.0	7510.933	6410.223	5039.040	3445.598	2988.145	2671.808	2521.284	2509.524	2547.155	2769.414
52.5	8104.799	6937.059	5404.767	3566.723	3012.840	2652.993	2475.421	2454.254	2409.567	2736.487
55.0	8799.798	7762.591	6072.719	3699.608	3042.240	2691.800	2481.301	2354.296	2353.120	2667.104
57.5	9878.165	8993.834	6698.336	3818.381	3163.365	2845.852	2620.066	2400.159	2406.039	2594.194
60.0	11060.017	9654.730	7135.798	4046.520	3303.305	2939.930	2738.839	2520.108	2595.370	2636.529
62.5	11055.313	9679.425	7589.723	4213.508	3302.129	2914.059	2694.152	2482.477	2742.367	2608.306
65.0	10294.459	9277.243	7366.289	4095.910	3282.138	2912.883	2587.138	2249.634	2587.138	2402.511
67.5	7654.402	6688.929	5009.641	3081.047	3004.608	2884.659	2480.125	2025.024	2301.377	2194.364
70.0	3684.320	2931.698	2128.509	1689.872	2137.917	2645.937	2423.678	1821.581	2034.432	2092.054
72.0	1866.268	1469.965	1233.595	1106.590	1365.303	2229.643	2391.927	1634.601	1754.550	1915.658
72.5	1738.087	1324.144	1132.461	1034.855	1223.011	2169.668	2369.584	1585.210	1676.936	1858.036
75.0	1036.031	871.395	778.493	751.446	820.828	1429.982	2039.135	1342.960	1302.977	1520.532
77.5	692.647	589.162	549.179	535.067	589.162	839.644	1541.699	1150.101	1026.624	1168.916
80.0	460.981	388.071	366.903	368.079	408.062	536.243	984.289	889.035	792.605	894.915
82.5	261.066	210.499	204.619	218.731	248.130	315.160	530.363	649.137	579.754	669.128
85.0	107.013	81.142	78.790	88.198	109.365	142.293	250.482	311.633	281.057	309.281
87.5	16.464	11.760	10.584	14.112	22.343	31.751	65.854	71.734	65.854	61.151
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

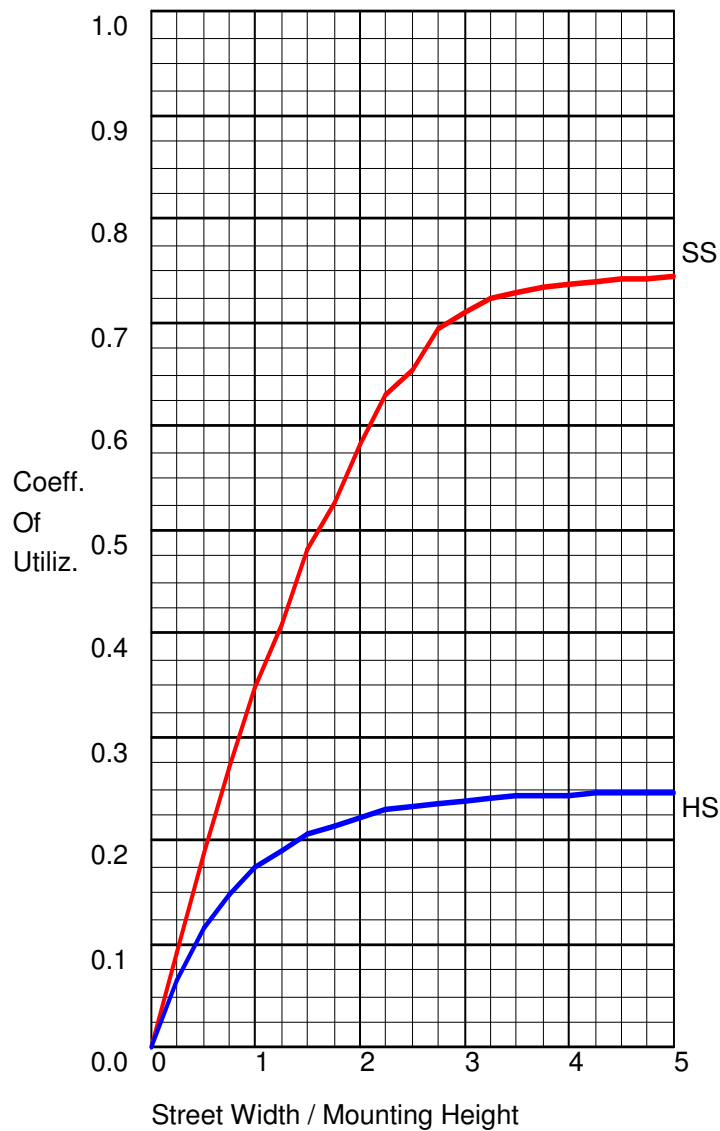
Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	4728.583	4728.583
2.5	4321.697	4335.809
5.0	3920.691	3930.098
7.5	3734.887	3737.239
10.0	3746.647	3744.295
12.5	3894.819	3892.467
15.0	4042.992	4044.168
17.5	4037.112	4046.520
20.0	3930.098	3945.386
22.5	3770.166	3791.334
25.0	3598.474	3616.114
27.5	3426.782	3444.422
30.0	3289.194	3304.481
32.5	3220.987	3240.979
35.0	3181.004	3202.172
37.5	3181.004	3195.116
40.0	3199.820	3203.348
42.5	3196.292	3200.996
45.0	3118.678	3116.326
47.5	3028.128	3042.240
50.0	3053.999	3069.287
52.5	3063.407	3071.639
55.0	3003.432	3015.192
57.5	2921.114	2937.578
60.0	2832.917	2848.204

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-740-T4-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	2678.864	2698.856
65.0	2461.309	2509.524
67.5	2231.995	2310.785
70.0	1988.569	2095.582
72.0	1802.765	1913.306
72.5	1753.374	1860.388
75.0	1460.557	1549.931
77.5	1215.955	1334.728
80.0	1125.405	1225.363
82.5	625.617	675.008
85.0	221.083	211.675
87.5	29.399	7.056
90.0	0.000	0.000

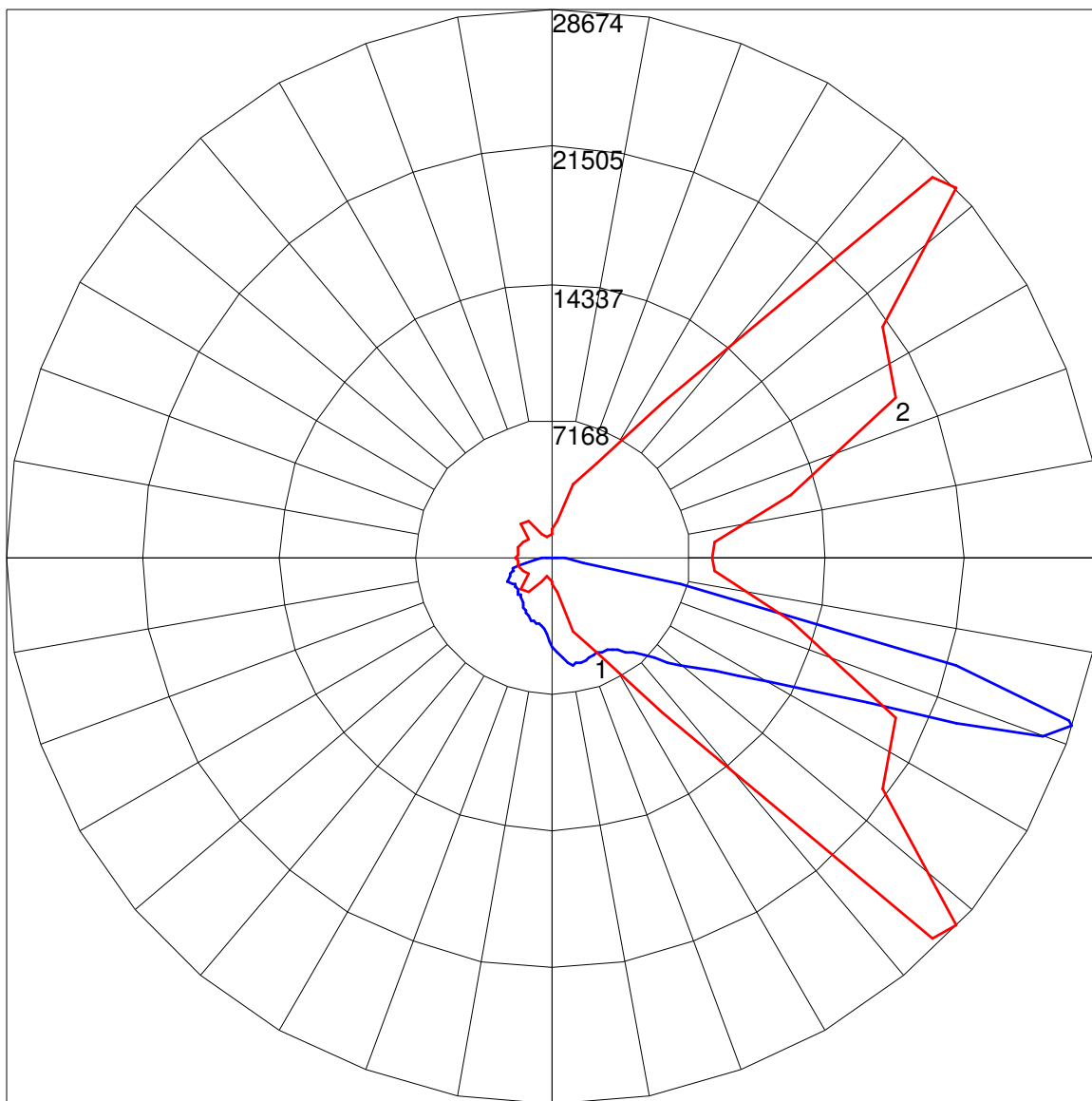
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

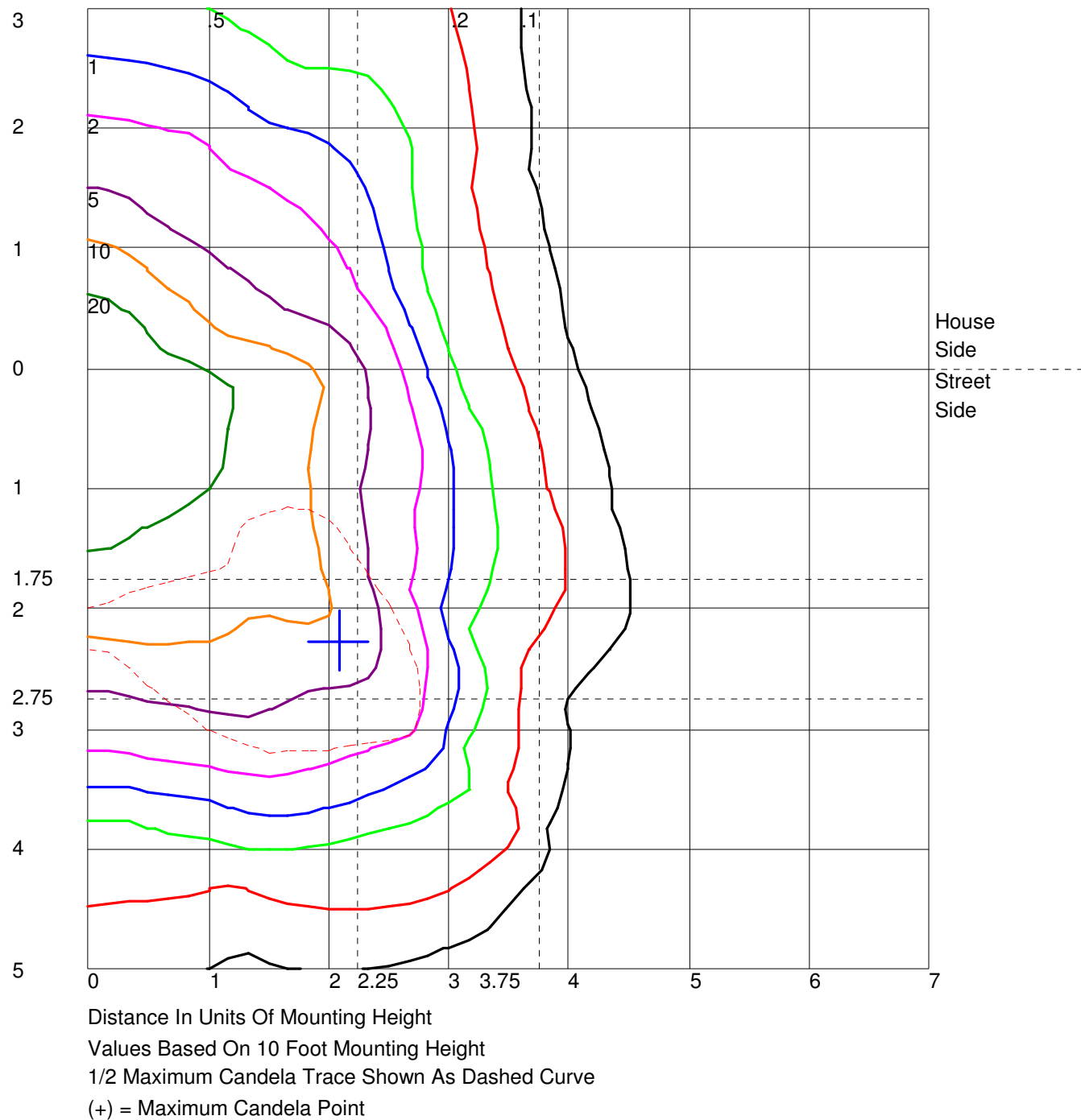
	Lumens	Percent Of Luminaire
Downward Street Side	22541.9	74.9
Downward House Side	7557.5	25.1
Downward Total	30099.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30099.4	100.0

POLAR GRAPH

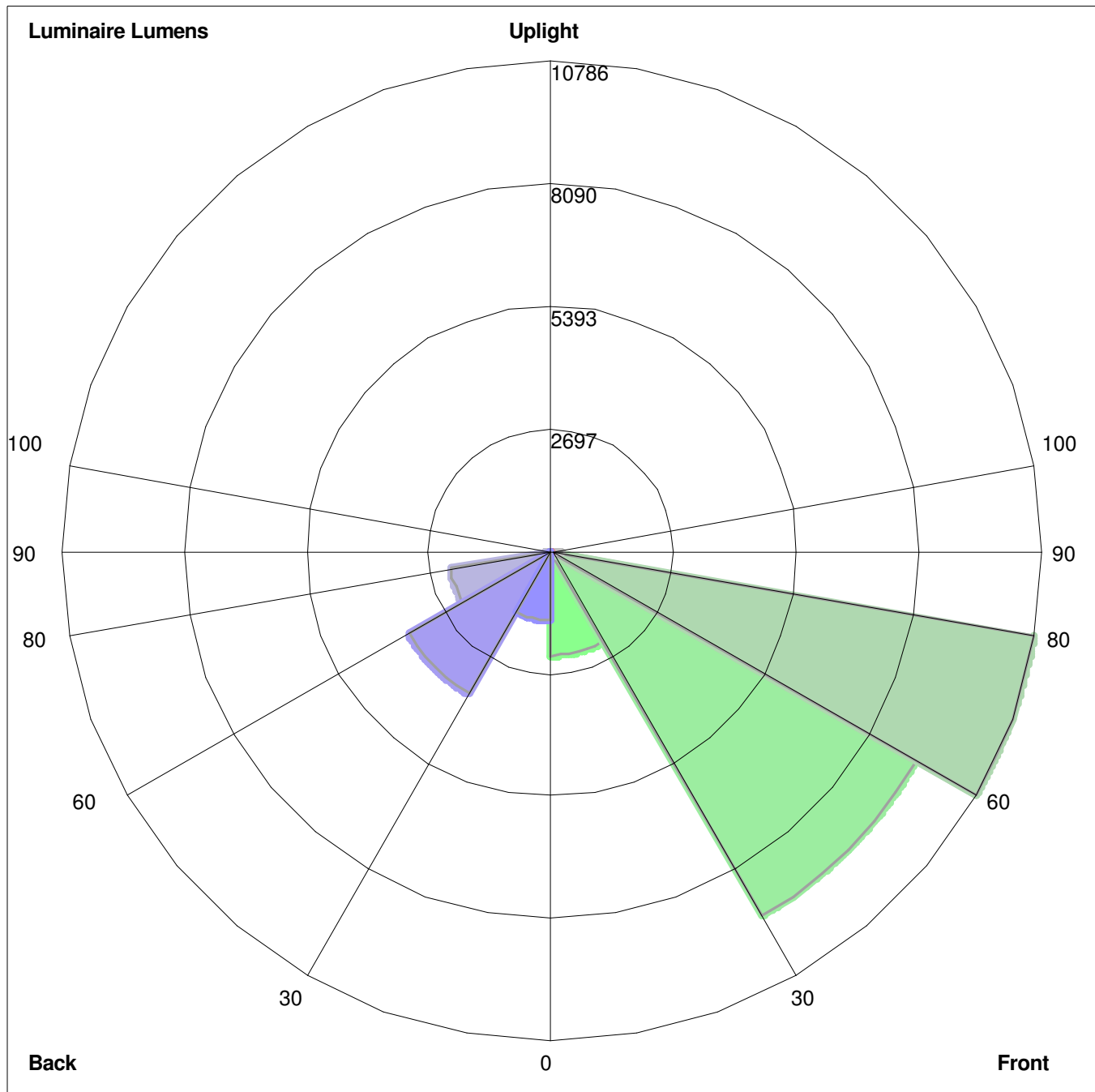


Maximum Candela = 28673.725 Located At Horizontal Angle = 42.5, Vertical Angle = 72
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2299.3, Medium=9266.9, High= 10786.0, Very High=189.6
Back: Low=1525.6, Medium=3636.2, High=2253.7, Very High=142.1
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4