



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-750-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-L330-750-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	34505
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	32871.087
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	32871.087
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	2326.846 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T4-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2635.9	N.A.	7.6
FM - Front-Medium (30-60)	10623.4	N.A.	30.8
FH - Front-High (60-80)	12364.9	N.A.	35.8
FVH - Front-Very High (80-90)	217.4	N.A.	0.6
BL - Back-Low (0-30)	1748.9	N.A.	5.1
BM - Back-Medium (30-60)	4168.5	N.A.	12.1
BH - Back-High (60-80)	2583.6	N.A.	7.5
BVH - Back-Very High (80-90)	162.9	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	34505.5	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	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770
2.5	5825.205	5813.072	5829.249	5803.635	5748.362	5738.925	5713.311	5676.912	5605.462	5547.493
5.0	6303.786	6309.178	6318.615	6275.475	6202.677	6106.961	6082.695	5957.320	5788.806	5618.943
7.5	6572.060	6581.497	6588.238	6578.801	6504.655	6414.331	6381.976	6194.588	5955.972	5698.482
10.0	6631.378	6644.859	6651.599	6667.777	6647.555	6566.668	6541.054	6344.229	6101.568	5780.717
12.5	6616.548	6627.333	6624.637	6652.947	6665.080	6596.327	6573.409	6417.027	6212.114	5861.604
15.0	6578.801	6582.845	6569.364	6597.675	6630.029	6572.060	6547.794	6453.426	6297.045	5957.320
17.5	6532.965	6528.921	6514.092	6539.706	6558.579	6527.573	6515.440	6487.129	6377.932	6040.903
20.0	6435.901	6429.160	6442.641	6485.781	6488.477	6466.907	6465.559	6514.092	6379.280	6085.391
22.5	6302.437	6298.393	6390.065	6437.249	6411.635	6406.242	6422.420	6454.774	6363.103	6147.404
25.0	6205.373	6214.810	6380.628	6367.147	6342.881	6376.584	6404.894	6396.806	6386.021	6224.247
27.5	6198.633	6233.684	6364.451	6337.488	6329.400	6395.457	6429.160	6414.331	6441.293	6333.444
30.0	6313.222	6324.007	6371.191	6365.799	6407.590	6473.648	6500.610	6522.180	6551.839	6487.129
32.5	6484.433	6441.293	6464.211	6530.269	6586.890	6624.637	6650.251	6702.828	6723.049	6677.213
35.0	6712.264	6643.511	6644.859	6802.588	6826.854	6849.772	6853.816	6929.311	6929.311	6910.437
37.5	7087.040	7035.812	6995.369	7136.921	7174.668	7154.446	7130.180	7157.142	7149.054	7155.794
40.0	7571.014	7523.830	7467.209	7572.362	7637.071	7538.659	7504.956	7371.493	7382.278	7436.202
42.5	8076.557	8028.025	8005.107	8117.000	8212.716	8023.980	7939.049	7623.590	7653.249	7742.224
45.0	8676.468	8656.246	8645.461	8758.703	8862.508	8622.543	8494.472	8104.867	7994.322	8115.652
47.5	9393.665	9339.740	9368.051	9547.350	9482.641	9322.215	9199.537	8766.792	8468.858	8571.315
50.0	10141.86910062.33010074.46310356.21910193.09710087.9449994.924	9616.104	9121.346	9111.909						
52.5	11140.82211119.25210853.67411072.06810964.21910912.99110895.46510682.4639932.911	9705.080								
55.0	12831.35812617.00812054.84411906.55111827.01311915.98812038.66711856.67110868.50310424.973									
57.5	14550.20514534.02713811.43813086.15212766.64913188.60913493.28313010.65811860.71511142.170									
60.0	15399.51715402.21415448.04914649.96513893.67314794.21415328.06714319.67712761.25611626.143									
62.5	16111.32216273.09616717.97416530.58615466.92317061.74317911.05515725.76113264.10311727.252									
65.0	17075.22417351.58818783.28618771.15317722.31920781.19221786.88617335.41012885.28311338.995									
67.5	16225.91216552.15620014.11522010.67320987.45426170.95627037.79418275.04611441.45210341.390									
70.0	13141.42513207.48218164.50124181.13824210.79731412.42731648.34716274.4448870.596	7879.732								
72.0	9575.661	9738.783	14730.85222791.23224204.05632871.08732318.36011371.3506272.779	4588.983						
72.5	8417.630	8580.752	13580.91022025.50223790.18532563.71731989.4209912.689	5635.121	3816.513					
75.0	3302.882	3253.001	5951.928	13683.36717739.84525030.45119907.6143985.028	3356.806	1766.031				
77.5	2144.851	2088.230	1908.931	3914.926	6665.080	7874.340	4007.946	1589.428	1842.873	1132.417
80.0	1393.951	1562.465	1159.379	1776.816	2326.846	1931.849	1371.033	905.933	1067.707	745.508
82.5	709.108	853.357	682.146	891.104	974.687	763.033	737.419	519.024	559.468	419.264
85.0	299.282	399.042	279.060	338.377	373.428	275.015	275.015	215.698	231.876	172.559
87.5	74.146	107.849	43.140	43.140	64.710	40.443	33.703	36.399	36.399	26.962
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	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770	5420.770
2.5	5477.391	5427.511	5391.112	5322.358	5240.123	5170.021	5094.526	5051.387	4988.025	4967.804
5.0	5439.644	5339.883	5252.256	5089.134	4928.708	4797.941	4675.263	4606.509	4535.059	4509.445
7.5	5422.118	5279.218	5141.710	4895.005	4676.611	4512.141	4392.159	4331.493	4291.050	4285.657
10.0	5409.985	5221.249	5036.558	4713.010	4462.261	4309.924	4222.296	4214.207	4233.081	4272.176
12.5	5404.593	5165.977	4931.405	4536.407	4280.265	4167.023	4145.454	4199.378	4296.442	4405.640
15.0	5416.726	5122.837	4837.037	4374.633	4125.232	4057.826	4105.010	4226.340	4390.810	4551.236
17.5	5424.815	5082.393	4749.409	4229.037	3995.813	3971.547	4052.434	4214.207	4380.026	4540.451
20.0	5431.555	5043.298	4671.218	4100.966	3889.312	3894.704	3974.243	4102.314	4239.822	4404.292
22.5	5451.777	5014.988	4597.072	3982.332	3801.684	3823.254	3859.653	3935.148	4055.130	4214.207
25.0	5490.872	5005.551	4533.711	3885.267	3732.930	3749.108	3716.753	3763.937	3850.216	4007.946

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CANDELA TABULATION - (Cont.)

27.5	5563.670	5019.032	4490.571	3813.817	3681.702	3656.088	3583.290	3598.119	3674.961	3809.773
30.0	5672.868	5064.868	4475.742	3762.589	3642.607	3553.631	3464.655	3457.915	3511.839	3637.214
32.5	5823.857	5143.059	4482.482	3726.190	3614.296	3459.263	3356.806	3325.800	3374.332	3537.454
35.0	6015.289	5250.908	4512.141	3704.620	3585.986	3379.724	3257.046	3199.077	3298.837	3484.877
37.5	6255.253	5392.460	4571.458	3710.012	3537.454	3305.578	3143.804	3120.886	3250.305	3453.871
40.0	6570.712	5602.766	4676.611	3750.456	3480.833	3240.868	3042.695	3076.398	3203.121	3447.130
42.5	6961.666	5900.699	4841.081	3800.336	3441.738	3195.032	2987.423	3027.866	3169.418	3443.086
45.0	7426.765	6272.779	5085.090	3843.476	3425.560	3151.893	2969.897	2977.986	3139.760	3414.775
47.5	7978.144	6758.100	5401.897	3882.571	3420.168	3110.101	2938.891	2929.454	3096.620	3250.305
50.0	8610.410	7348.575	5776.673	3949.977	3425.560	3062.917	2890.358	2876.877	2920.017	3174.811
52.5	9291.208	7952.530	6195.936	4088.833	3453.871	3041.347	2837.782	2813.516	2762.288	3137.064
55.0	10087.944	8898.907	6961.666	4241.170	3487.573	3085.835	2844.523	2698.926	2697.578	3057.525
57.5	11324.166	10310.383	7678.863	4377.329	3626.429	3262.438	3003.600	2751.503	2758.243	2973.942
60.0	12679.021	11068.024	8180.362	4638.864	3786.855	3370.287	3139.760	2889.010	2975.290	3022.474
62.5	12673.629	11096.334	8700.734	4830.296	3785.507	3340.629	3088.531	2845.871	3143.804	2990.119
65.0	11801.398	10635.279	8444.592	4695.484	3762.589	3339.281	2965.853	2578.944	2965.853	2754.199
67.5	8774.880	7668.078	5742.970	3532.061	3444.434	3306.926	2843.174	2321.454	2638.261	2515.583
70.0	4223.644	3360.851	2440.088	1937.241	2450.873	3033.259	2778.465	2088.230	2332.239	2398.297
72.0	2139.458	1685.144	1414.173	1268.576	1565.161	2556.026	2742.066	1873.880	2011.388	2196.079
72.5	1992.514	1517.977	1298.235	1186.341	1402.040	2487.272	2716.452	1817.259	1922.412	2130.022
75.0	1187.689	998.953	892.452	861.445	940.984	1639.308	2337.631	1539.547	1493.711	1743.113
77.5	794.040	675.406	629.570	613.392	675.406	962.554	1767.379	1318.456	1176.904	1340.026
80.0	528.461	444.878	420.612	421.960	467.796	614.740	1128.372	1019.175	908.629	1025.915
82.5	299.282	241.313	234.572	250.749	284.452	361.295	608.000	744.159	664.621	767.077
85.0	122.678	93.020	90.324	101.109	125.375	163.122	287.148	357.250	322.199	354.554
87.5	18.874	13.481	12.133	16.177	25.614	36.399	75.494	82.235	75.494	70.102
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

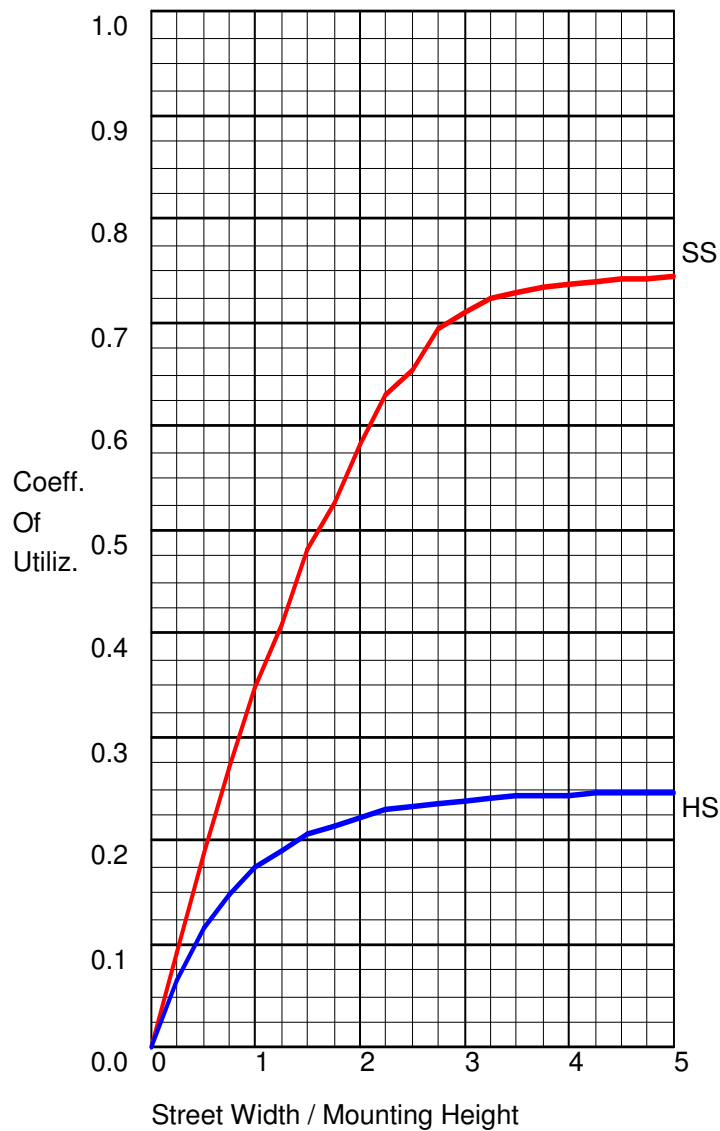
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	5420.770	5420.770
2.5	4954.323	4970.500
5.0	4494.615	4505.400
7.5	4281.613	4284.309
10.0	4295.094	4292.398
12.5	4464.957	4462.261
15.0	4634.819	4636.167
17.5	4628.079	4638.864
20.0	4505.400	4522.926
22.5	4322.057	4346.323
25.0	4125.232	4145.454
27.5	3928.407	3948.629
30.0	3770.678	3788.203
32.5	3692.487	3715.405
35.0	3646.651	3670.917
37.5	3646.651	3662.828
40.0	3668.221	3672.265
42.5	3664.176	3669.569
45.0	3575.201	3572.505
47.5	3471.396	3487.573
50.0	3501.055	3518.580
52.5	3511.839	3521.276
55.0	3443.086	3456.567
57.5	3348.718	3367.591
60.0	3247.609	3265.134

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T4-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	3071.006	3093.924
65.0	2821.605	2876.877
67.5	2558.722	2649.046
70.0	2279.662	2402.341
72.0	2066.660	2193.383
72.5	2010.039	2132.718
75.0	1674.359	1776.816
77.5	1393.951	1530.110
80.0	1290.146	1404.736
82.5	717.197	773.818
85.0	253.446	242.661
87.5	33.703	8.089
90.0	0.000	0.000

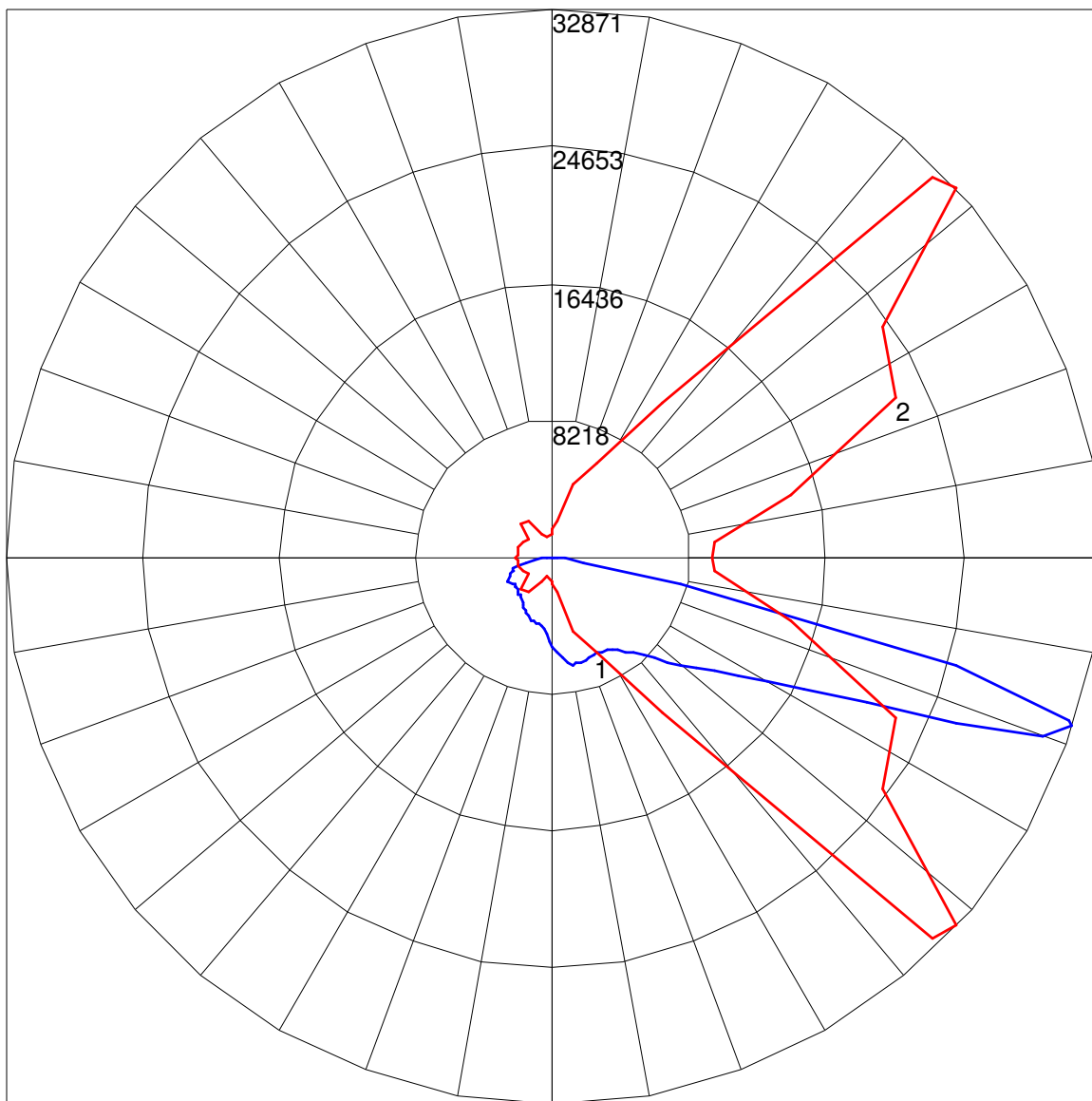
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

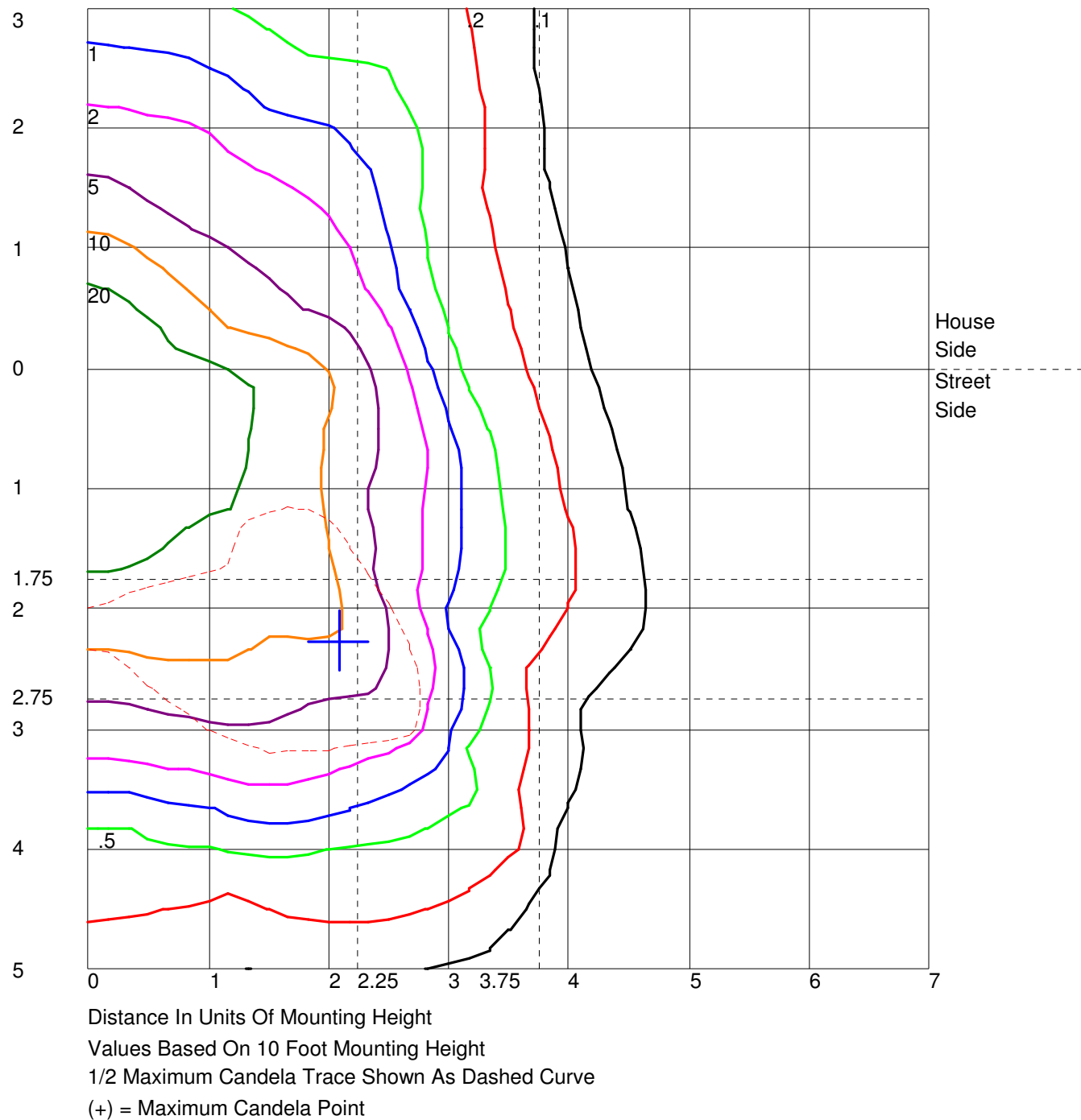
	Lumens	Percent Of Luminaire
Downward Street Side	25841.6	74.9
Downward House Side	8663.8	25.1
Downward Total	34505.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	34505.4	100.0

POLAR GRAPH

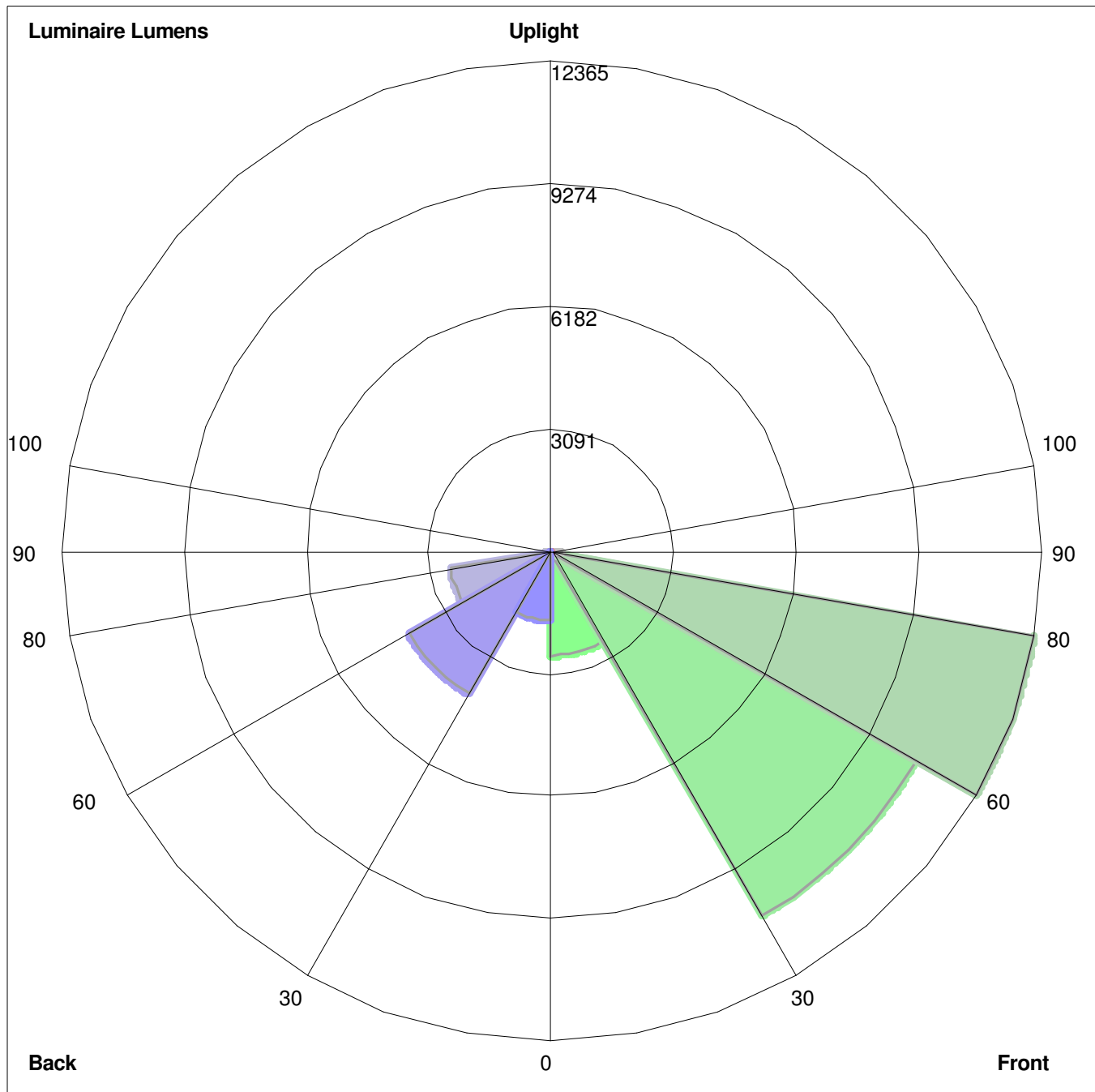


Maximum Candela = 32871.087 Located At Horizontal Angle = 42.5, Vertical Angle = 72
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2635.9, Medium=10623.4, High=12364.9, Very High=217.4
Back: Low=1748.9, Medium=4168.5, High=2583.6, Very High=162.9
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G5