



## 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] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L330-730-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	30485
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	29041.446
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	29041.446
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	2055.758 (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)	2328.8	N.A.	7.6
FM - Front-Medium (30-60)	9385.7	N.A.	30.8
FH - Front-High (60-80)	10924.3	N.A.	35.8
FVH - Front-Very High (80-90)	192.1	N.A.	0.6
BL - Back-Low (0-30)	1545.1	N.A.	5.1
BM - Back-Medium (30-60)	3682.9	N.A.	12.1
BH - Back-High (60-80)	2282.6	N.A.	7.5
BVH - Back-Very High (80-90)	143.9	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	30485.3	N.A.	100.0
BUG Rating	B3-U0-G4		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224
2.5	5146.540	5135.821	5150.113	5127.483	5078.650	5070.313	5047.683	5015.524	4952.399	4901.183
5.0	5569.364	5574.128	5582.466	5544.352	5480.035	5395.470	5374.031	5263.263	5114.382	4964.309
7.5	5806.384	5814.721	5820.676	5812.339	5746.831	5667.030	5638.445	5472.889	5262.072	5034.581
10.0	5858.790	5870.200	5876.656	5890.948	5873.083	5801.619	5778.989	5605.096	5390.706	5107.235
12.5	5845.688	5855.217	5852.835	5877.847	5888.566	5827.822	5807.575	5669.412	5488.372	5178.699
15.0	5812.339	5815.912	5804.001	5829.014	5857.599	5806.384	5784.945	5701.571	5563.409	5263.263
17.5	5771.843	5768.270	5755.168	5777.798	5794.473	5767.079	5756.359	5731.347	5634.872	5337.109
20.0	5686.087	5680.132	5692.042	5730.156	5732.538	5713.481	5712.290	5755.168	5636.063	5376.413
22.5	5568.173	5564.600	5645.591	5687.278	5664.648	5659.884	5674.177	5702.762	5621.770	5431.202
25.0	5482.417	5490.754	5637.254	5625.343	5603.905	5633.681	5658.693	5651.547	5642.018	5499.092
27.5	5476.462	5507.429	5622.961	5599.140	5591.994	5650.356	5680.132	5667.030	5690.851	5595.567
30.0	5577.701	5587.230	5628.917	5624.152	5661.075	5719.437	5743.258	5762.315	5788.518	5731.347
32.5	5728.965	5690.851	5711.099	5769.461	5819.485	5852.835	5875.465	5921.916	5939.781	5899.286
35.0	5930.253	5869.509	5870.700	6010.054	6031.493	6051.740	6055.314	6122.013	6122.013	6105.338
37.5	6261.366	6216.106	6180.374	6305.435	6338.784	6320.918	6299.479	6323.301	6316.154	6322.109
40.0	6688.954	6647.267	6597.243	6690.145	6747.315	6660.369	6630.592	6512.678	6522.206	6569.849
42.5	7135.599	7092.721	7072.473	7171.330	7255.895	7089.148	7014.111	6735.405	6761.608	6840.218
45.0	7665.617	7647.752	7638.223	7738.272	7829.983	7617.975	7504.825	7160.611	7062.944	7170.139
47.5	8299.258	8251.615	8276.628	8435.038	8377.867	8236.132	8127.746	7745.418	7482.195	7572.715
50.0	8960.292	8890.020	8900.739	9149.669	9005.552	8912.650	8830.467	8495.781	8058.665	8050.327
52.5	9842.862	9823.805	9589.168	9782.119	9686.834	9641.574	9626.091	9437.904	8775.679	8574.391
55.0	11336.443	11147.065	10650.396	10519.380	10449.108	10527.718	10636.104	10475.311	9602.270	9210.413
57.5	12855.035	12840.743	12202.338	11561.552	11279.272	11652.072	11921.250	11494.853	10478.885	9844.053
60.0	13605.399	13607.781	13648.277	12943.173	12274.993	13070.616	13542.273	12651.365	11274.508	10271.641
62.5	14234.275	14377.201	14770.249	14604.692	13664.951	15073.967	15824.331	13893.634	11718.771	10360.970
65.0	15085.878	15330.044	16594.942	16584.222	15657.583	18360.083	19248.608	15315.751	11384.085	10017.947
67.5	14335.514	14623.749	17682.373	19446.323	18542.314	23121.913	23887.760	16145.915	10108.467	9136.568
70.0	11610.385	11668.747	16048.249	21363.918	21390.121	27752.727	27961.161	14378.392	7837.129	6961.705
72.0	8460.050	8604.167	13014.636	20135.943	21384.166	29041.446	28553.114	10046.532	5541.970	4054.345
72.5	7436.935	7581.053	11998.668	19459.424	21018.513	28769.886	28262.497	7857.813	4978.602	3371.871
75.0	2918.080	2874.011	5258.499	12089.188	15673.067	22114.282	217588.280	3520.753	2965.722	1560.279
77.5	1894.965	1844.941	1686.531	3458.818	5888.566	6956.941	3541.001	1404.252	1628.169	1000.485
80.0	1231.549	1380.430	1024.306	1569.808	2055.758	1706.779	1211.301	800.388	943.314	658.652
82.5	626.494	753.937	602.673	787.286	861.131	674.136	651.506	458.555	494.287	370.417
85.0	264.414	352.552	246.548	298.954	329.922	242.975	242.975	190.568	204.861	152.455
87.5	65.508	95.284	38.114	38.114	57.171	35.732	29.776	32.158	32.158	23.821
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224	4789.224
2.5	4839.248	4795.180	4763.021	4702.277	4629.623	4567.688	4500.989	4462.876	4406.896	4389.030
5.0	4805.899	4717.761	4640.343	4496.225	4354.490	4238.958	4130.572	4069.828	4006.702	3984.072
7.5	4790.415	4664.164	4542.676	4324.714	4131.763	3986.455	3880.451	3826.853	3791.122	3786.358
10.0	4779.696	4612.948	4449.774	4163.921	3942.386	3807.797	3730.378	3723.232	3739.907	3774.447
12.5	4774.932	4564.115	4356.872	4007.893	3781.593	3681.545	3662.488	3710.130	3795.886	3892.361
15.0	4785.651	4526.002	4273.498	3864.967	3644.622	3585.070	3626.756	3733.951	3879.260	4020.995
17.5	4792.797	4490.270	4196.080	3736.333	3530.281	3508.842	3580.305	3723.232	3869.731	4011.467
20.0	4798.753	4455.729	4126.999	3623.183	3436.188	3440.952	3511.224	3624.374	3745.862	3891.170
22.5	4816.618	4430.717	4061.491	3518.371	3358.770	3377.826	3409.985	3476.684	3582.688	3723.232
25.0	4851.159	4422.380	4005.511	3432.615	3298.026	3312.318	3283.733	3325.420	3401.647	3541.001

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**CANDELA TABULATION - (Cont.)**

27.5	4915.476	4434.290	3967.398	3369.489	3252.766	3230.136	3165.819	3178.921	3246.811	3365.916
30.0	5011.951	4474.786	3954.296	3324.229	3218.225	3139.616	3061.006	3055.051	3102.693	3213.461
32.5	5145.349	4543.867	3960.251	3292.071	3193.213	3056.242	2965.722	2938.328	2981.206	3125.323
35.0	5314.479	4639.152	3986.455	3273.014	3168.201	2985.970	2877.584	2826.369	2914.507	3078.872
37.5	5526.486	4764.212	4038.861	3277.778	3125.323	2920.462	2777.536	2757.288	2871.629	3051.478
40.0	5805.192	4950.016	4131.763	3313.510	3075.299	2863.291	2688.207	2717.983	2829.942	3045.523
42.5	6150.598	5213.239	4277.071	3357.578	3040.758	2822.796	2639.374	2675.105	2800.166	3041.949
45.0	6561.511	5541.970	4492.652	3395.692	3026.466	2784.682	2623.890	2631.036	2773.963	3016.937
47.5	7048.652	5970.749	4772.550	3430.233	3021.702	2747.759	2596.496	2588.158	2735.849	2871.629
50.0	7607.256	6492.430	5103.662	3489.785	3026.466	2706.072	2553.618	2541.707	2579.821	2804.930
52.5	8208.738	7026.022	5474.080	3612.464	3051.478	2687.016	2507.167	2485.728	2440.468	2771.580
55.0	8912.650	7862.141	6150.598	3747.053	3081.254	2726.320	2513.122	2384.488	2383.297	2701.308
57.5	10004.845	9109.174	6784.238	3867.349	3203.933	2882.348	2653.666	2430.939	2436.895	2627.463
60.0	11201.854	9778.545	7227.310	4098.413	3345.668	2977.633	2773.963	2552.427	2628.654	2670.341
62.5	11197.090	9803.558	7687.056	4267.543	3344.477	2951.429	2728.702	2514.313	2777.536	2641.756
65.0	10426.478	9396.217	7460.756	4148.438	3324.229	2950.238	2620.317	2278.484	2620.317	2433.321
67.5	7752.564	6774.710	5073.886	3120.559	3043.140	2921.653	2511.931	2050.993	2330.891	2222.505
70.0	3731.569	2969.295	2155.806	1711.543	2165.334	2679.869	2454.760	1844.941	2060.522	2118.883
72.0	1890.201	1488.816	1249.415	1120.781	1382.813	2258.237	2422.602	1655.564	1777.051	1940.225
72.5	1760.376	1341.126	1146.984	1048.127	1238.695	2197.493	2399.972	1605.539	1698.442	1881.864
75.0	1049.318	882.570	788.477	761.083	831.355	1448.320	2065.286	1360.183	1319.687	1540.032
77.5	701.530	596.718	556.222	541.929	596.718	850.412	1561.471	1164.850	1039.789	1183.907
80.0	466.893	393.048	371.609	372.800	413.295	543.120	996.911	900.436	802.770	906.391
82.5	264.414	213.198	207.243	221.536	251.312	319.202	537.165	657.461	587.189	677.709
85.0	108.386	82.183	79.801	89.329	110.768	144.117	253.694	315.629	284.662	313.247
87.5	16.675	11.911	10.719	14.293	22.630	32.158	66.699	72.654	66.699	61.935
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**

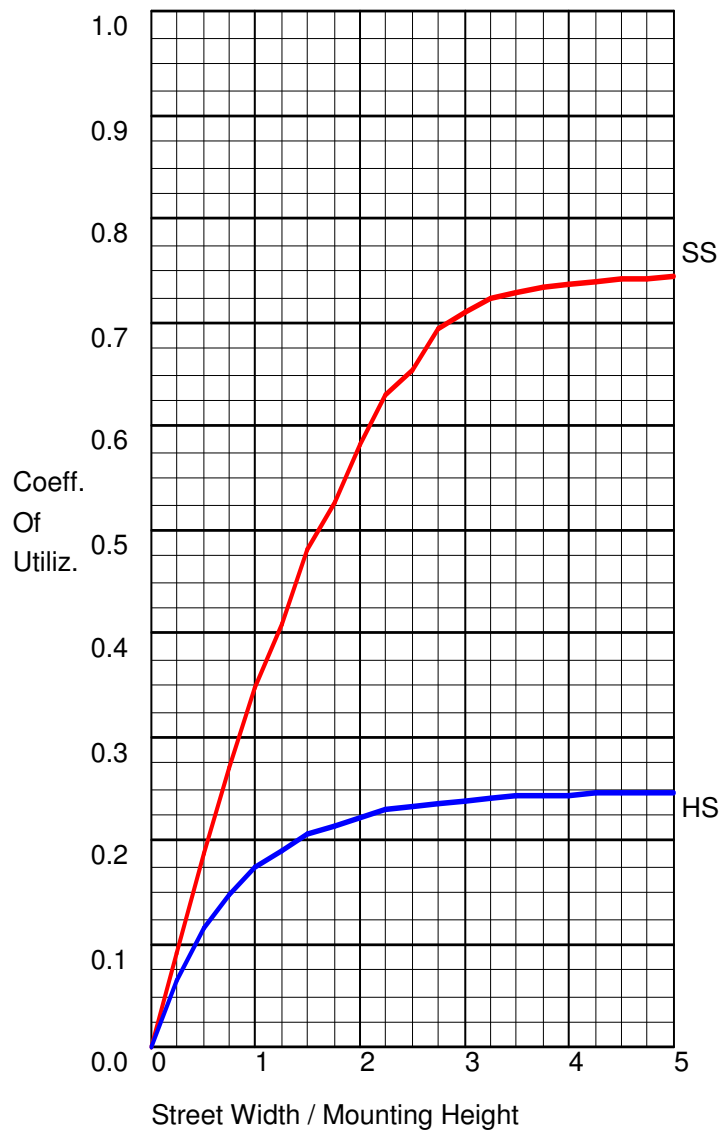
	<u>175.0</u>	<u>180.0</u>
0.0	4789.224	4789.224
2.5	4377.120	4391.413
5.0	3970.971	3980.499
7.5	3782.784	3785.167
10.0	3794.695	3792.313
12.5	3944.768	3942.386
15.0	4094.840	4096.031
17.5	4088.885	4098.413
20.0	3980.499	3995.983
22.5	3818.516	3839.955
25.0	3644.622	3662.488
27.5	3470.729	3488.594
30.0	3331.375	3346.859
32.5	3262.294	3282.542
35.0	3221.798	3243.237
37.5	3221.798	3236.091
40.0	3240.855	3244.428
42.5	3237.282	3242.046
45.0	3158.673	3156.291
47.5	3066.962	3081.254
50.0	3093.165	3108.648
52.5	3102.693	3111.031
55.0	3041.949	3053.860
57.5	2958.576	2975.250
60.0	2869.247	2884.730

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	2713.219	2733.467
<b>65.0</b>	2492.874	2541.707
<b>67.5</b>	2260.619	2340.419
<b>70.0</b>	2014.071	2122.457
<b>72.0</b>	1825.884	1937.843
<b>72.5</b>	1775.860	1884.246
<b>75.0</b>	1479.288	1569.808
<b>77.5</b>	1231.549	1351.845
<b>80.0</b>	1139.838	1241.077
<b>82.5</b>	633.640	683.664
<b>85.0</b>	223.918	214.390
<b>87.5</b>	29.776	7.146
<b>90.0</b>	0.000	0.000

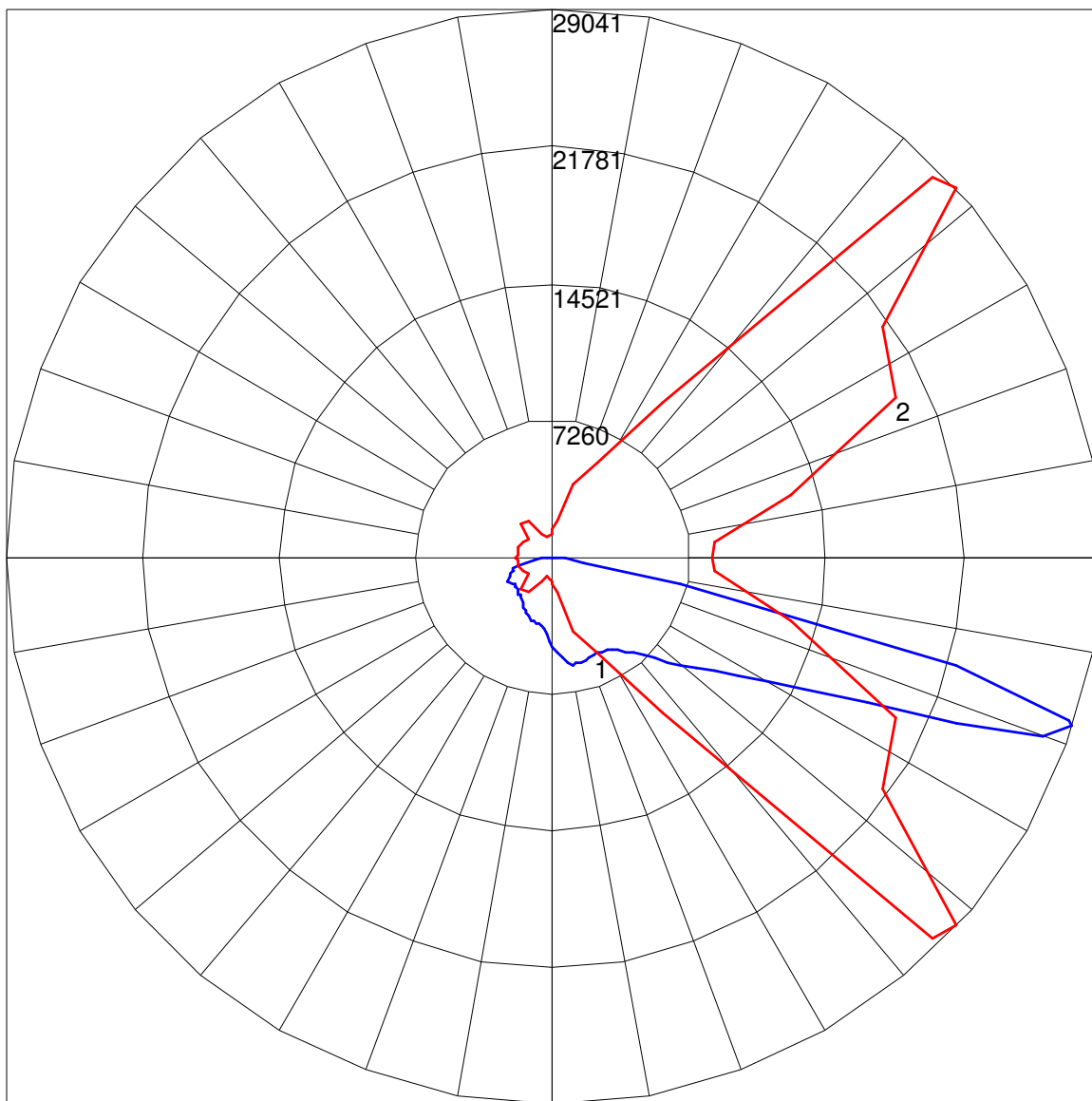
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

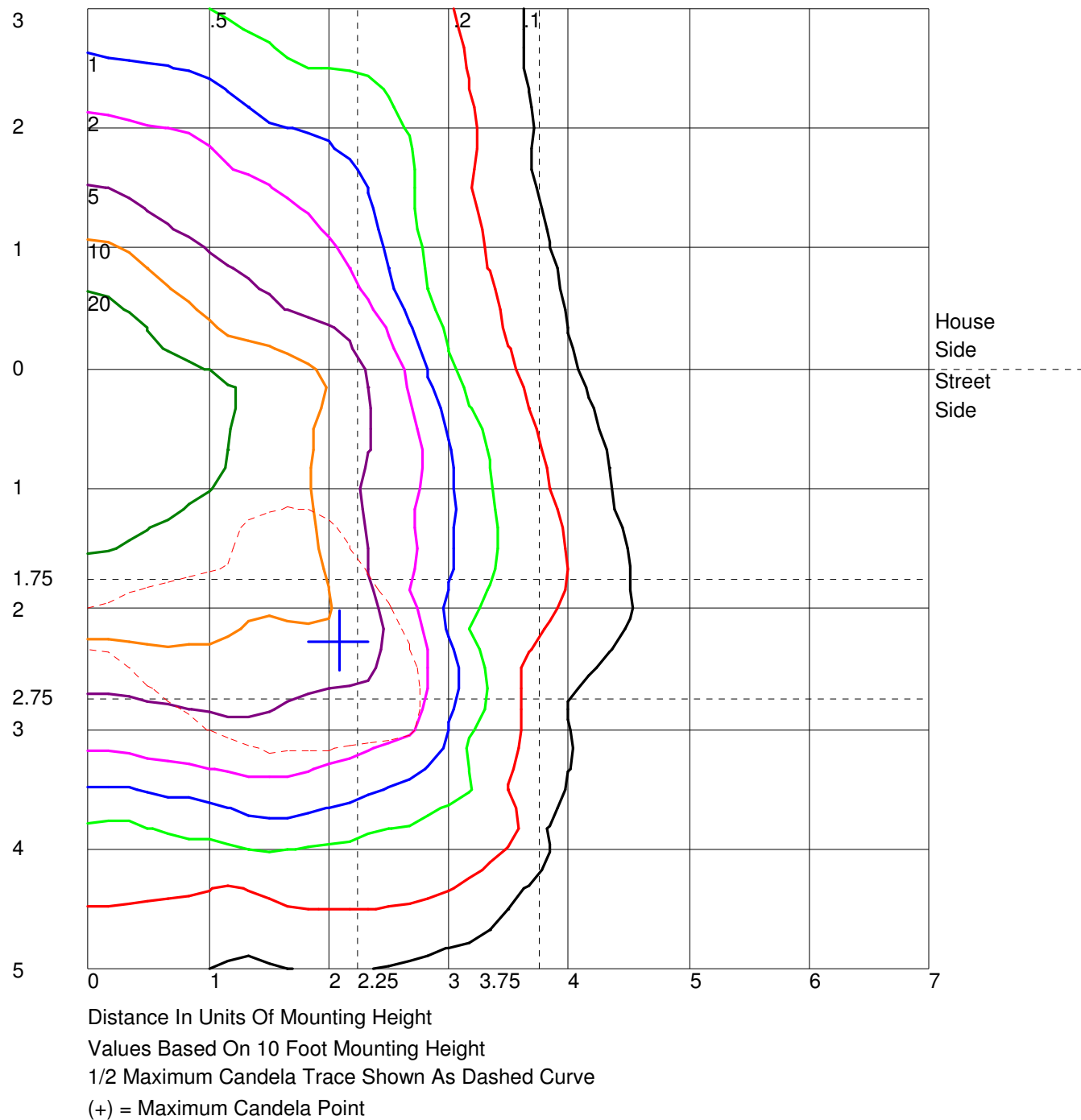
	Lumens	Percent Of Luminaire
Downward Street Side	22830.9	74.9
Downward House Side	7654.4	25.1
Downward Total	30485.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	30485.4	100.0

POLAR GRAPH



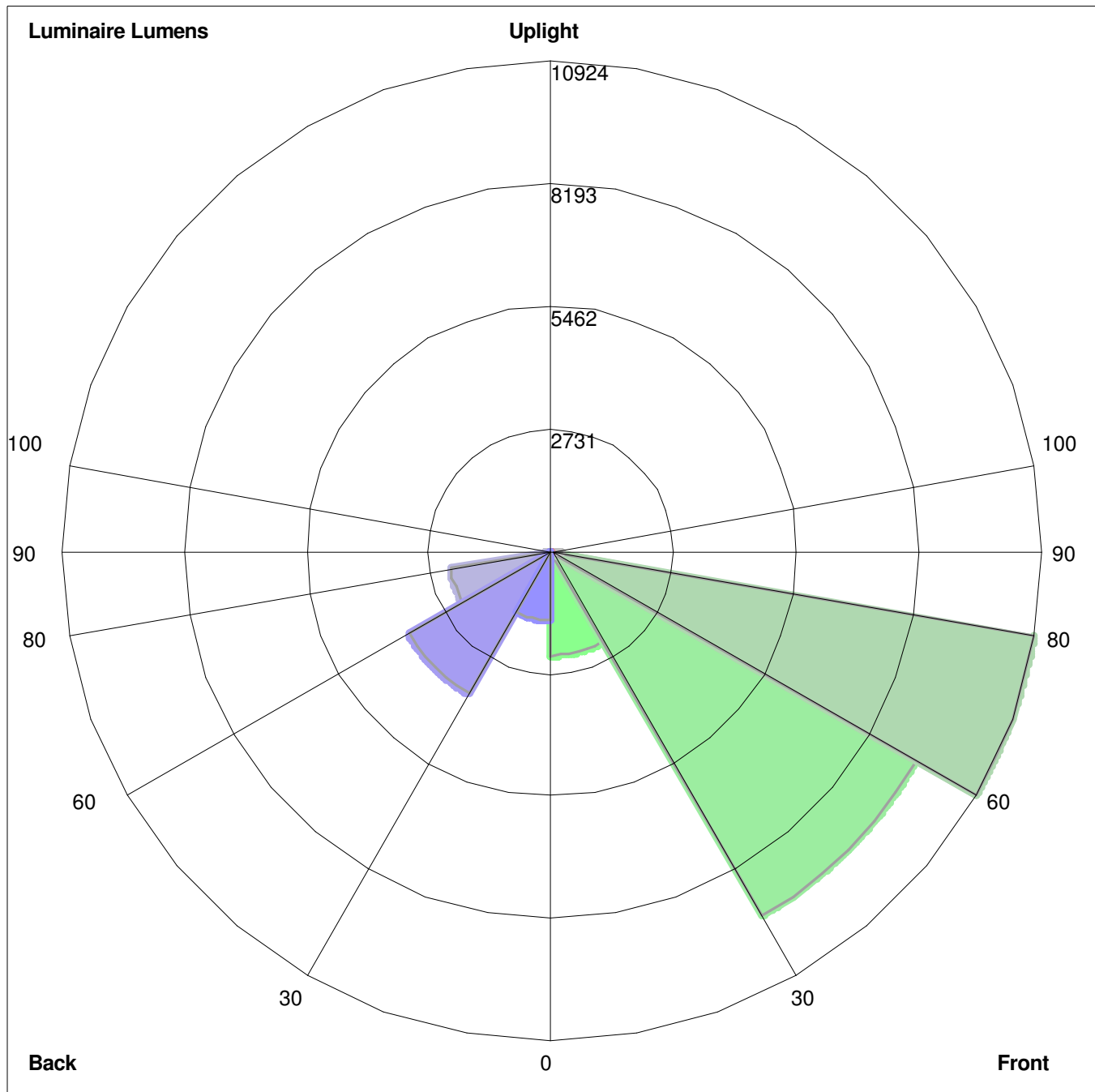
Maximum Candela = 29041.446 Located At Horizontal Angle = 42.5, Vertical Angle = 72  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=2328.8, Medium=9385.7, High=10924.3, Very High=192.1  
Back: Low=1545.1, Medium=3682.9, High=2282.6, Very High=143.9  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4