



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] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-740-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	33500
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	31913.665
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	31913.665
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	2259.073 (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)	2559.2	N.A.	7.6
FM - Front-Medium (30-60)	10314.0	N.A.	30.8
FH - Front-High (60-80)	12004.8	N.A.	35.8
FVH - Front-Very High (80-90)	211.1	N.A.	0.6
BL - Back-Low (0-30)	1697.9	N.A.	5.1
BM - Back-Medium (30-60)	4047.1	N.A.	12.1
BH - Back-High (60-80)	2508.3	N.A.	7.5
BVH - Back-Very High (80-90)	158.1	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	33500.5	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	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882
2.5	5655.536	5643.757	5659.463	5634.595	5580.932	5571.770	5546.902	5511.563	5442.194	5385.914
5.0	6120.178	6125.413	6134.575	6092.692	6022.014	5929.086	5905.527	5783.804	5620.198	5455.283
7.5	6380.639	6389.801	6396.345	6387.183	6315.196	6227.503	6196.091	6014.161	5782.495	5532.505
10.0	6438.228	6451.317	6457.861	6473.567	6453.934	6375.403	6350.535	6159.443	5923.850	5612.344
12.5	6423.831	6434.302	6431.684	6459.170	6470.949	6404.198	6381.948	6230.121	6031.176	5690.875
15.0	6387.183	6391.110	6378.021	6405.507	6436.919	6380.639	6357.079	6265.460	6113.634	5783.804
17.5	6342.682	6338.756	6324.358	6349.226	6367.550	6337.447	6325.667	6298.181	6192.165	5864.952
20.0	6248.445	6241.901	6254.989	6296.872	6299.490	6278.549	6277.240	6324.358	6193.473	5908.144
22.5	6118.869	6114.942	6203.944	6249.754	6224.886	6219.650	6235.357	6266.769	6177.767	5968.351
25.0	6024.632	6033.794	6194.782	6181.694	6158.134	6190.856	6218.341	6210.488	6200.018	6042.956
27.5	6018.088	6052.118	6179.076	6152.899	6145.046	6209.180	6241.901	6227.503	6253.680	6148.972
30.0	6129.340	6139.811	6185.620	6180.385	6220.959	6285.093	6311.270	6332.211	6361.006	6298.181
32.5	6295.564	6253.680	6275.931	6340.064	6395.036	6431.684	6456.552	6507.597	6527.230	6482.729
35.0	6516.759	6450.008	6451.317	6604.452	6628.011	6650.262	6654.188	6727.484	6727.484	6709.160
37.5	6880.619	6830.883	6791.617	6929.046	6965.694	6946.062	6922.502	6948.679	6940.826	6947.370
40.0	7350.496	7304.686	7249.714	7351.805	7414.629	7319.083	7286.362	7156.786	7167.257	7219.611
42.5	7841.314	7794.196	7771.945	7880.580	7973.508	7790.269	7707.812	7401.541	7430.336	7516.720
45.0	8423.752	8404.119	8393.648	8503.592	8604.373	8371.398	8247.057	7868.800	7761.474	7879.271
47.5	9120.060	9067.706	9095.192	9269.268	9206.444	9050.691	8931.585	8511.445	8222.189	8321.662
50.0	9846.471	9769.249	9781.028	10054.5789896.207	9794.117	9703.806	9336.020	8855.672	8846.510	
52.5	10816.32810795.38610537.54310749.57710644.86910595.13210578.11710371.3199643.599	9422.404								
55.0	12457.62512249.51811703.72811559.75411482.53211568.91611688.02111511.32710551.94010121.329									
57.5	14126.407141110.70113409.15812704.99712394.80012804.47013100.26912631.70111515.25310817.637									
60.0	14950.98214953.60014998.10014223.26213488.99814363.30914881.61313902.59412389.56411287.514									
62.5	15642.05415799.11616231.03616049.10615016.42416564.79317389.36815267.72312877.76511385.677									
65.0	16577.88116846.19518236.19318224.41317206.12920175.90721152.30816830.48912509.97911008.729									
67.5	15753.30616070.04819431.17221369.57720376.16125408.68526250.27517742.75711108.20110040.181									
70.0	12758.66012822.79317635.43123476.82423505.61930497.49030726.53915800.4258612.226	7650.222								
72.0	9296.754	9455.125	14301.79322127.40123499.07531913.66531377.03711040.1416090.074	4455.322						
72.5	8172.453	8330.824	13185.34521383.97523097.25831615.24731057.6779623.967	5470.989	3705.351					
75.0	3206.680	3158.253	5778.568	13284.81717223.14424301.39919327.7733868.958	3259.034	1714.592				
77.5	2082.379	2027.407	1853.330	3800.897	6470.949	7644.987	3891.208	1543.133	1789.197	1099.433
80.0	1353.350	1516.956	1125.610	1725.063	2259.073	1875.581	1331.099	879.547	1036.608	723.793
82.5	688.455	828.501	662.278	865.149	946.298	740.809	715.940	503.907	543.172	407.052
85.0	290.564	387.419	270.932	328.521	362.551	267.005	267.005	209.416	225.122	167.533
87.5	71.987	104.708	41.883	41.883	62.825	39.265	32.721	35.339	35.339	26.177
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	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882	5262.882
2.5	5317.853	5269.426	5234.087	5167.336	5087.496	5019.436	4946.140	4904.257	4842.741	4823.108
5.0	5281.206	5184.351	5099.276	4940.905	4785.152	4658.194	4539.088	4472.337	4402.968	4378.100
7.5	5264.191	5125.453	4991.950	4752.431	4540.397	4380.718	4264.230	4205.332	4166.066	4160.831
10.0	5252.411	5069.172	4889.860	4575.736	4332.290	4184.390	4099.315	4091.462	4109.786	4147.742
12.5	5247.176	5015.509	4787.770	4404.277	4155.596	4045.652	4024.711	4077.065	4171.302	4277.318
15.0	5258.955	4973.626	4696.150	4247.215	4005.078	3939.635	3985.445	4103.242	4262.921	4418.674
17.5	5266.808	4934.361	4611.075	4105.859	3879.428	3855.869	3934.400	4091.462	4252.450	4408.203
20.0	5273.353	4896.404	4535.162	3981.519	3776.029	3781.265	3858.487	3982.827	4116.330	4276.010
22.5	5292.985	4868.918	4463.175	3866.340	3690.954	3711.896	3747.235	3820.530	3937.018	4091.462
25.0	5330.942	4859.756	4401.659	3772.103	3624.203	3639.909	3608.497	3654.306	3738.073	3891.208

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CANDELA TABULATION - (Cont.)

27.5	5401.620	4872.845	4359.776	3702.734	3574.467	3549.598	3478.921	3493.318	3567.922	3698.807
30.0	5507.636	4917.346	4345.379	3652.997	3536.510	3450.126	3363.742	3357.198	3409.552	3531.275
32.5	5654.228	4993.259	4351.923	3617.659	3509.024	3358.506	3259.034	3228.930	3276.049	3434.420
35.0	5840.084	5097.967	4380.718	3596.717	3481.538	3281.284	3162.179	3105.899	3202.753	3383.375
37.5	6073.059	5235.396	4438.307	3601.952	3434.420	3209.298	3052.236	3029.985	3155.635	3353.271
40.0	6379.330	5439.576	4540.397	3641.218	3379.448	3146.473	2954.072	2986.793	3109.825	3346.727
42.5	6758.896	5728.832	4700.077	3689.645	3341.491	3101.972	2900.409	2939.675	3077.104	3342.800
45.0	7210.449	6090.074	4936.978	3731.528	3325.785	3060.089	2883.394	2891.247	3048.309	3315.314
47.5	7745.768	6561.260	5244.558	3769.485	3320.550	3019.515	2853.291	2844.129	3006.426	3155.635
50.0	8359.618	7134.536	5608.418	3834.928	3325.785	2973.705	2806.172	2793.084	2834.967	3082.339
52.5	9020.587	7720.900	6015.470	3969.739	3353.271	2952.763	2755.127	2731.568	2681.832	3045.692
55.0	9794.117	8639.712	6758.896	4117.639	3385.992	2995.955	2761.671	2620.316	2619.007	2968.469
57.5	10994.331	10010.077	7455.204	4249.833	3520.804	3167.415	2916.116	2671.361	2677.905	2887.321
60.0	12309.725	10745.650	7942.096	4503.749	3676.557	3272.122	3048.309	2804.863	2888.630	2934.439
62.5	12304.489	10773.136	8447.311	4689.606	3675.248	3243.328	2998.573	2762.980	3052.236	2903.027
65.0	11457.664	10325.510	8198.630	4558.721	3652.997	3242.019	2879.468	2503.828	2879.468	2673.978
67.5	8519.298	7444.733	5575.697	3429.184	3344.109	3210.607	2760.362	2253.838	2561.417	2442.312
70.0	4100.624	3262.960	2369.017	1880.816	2379.487	2944.910	2697.538	2027.407	2264.309	2328.442
72.0	2077.143	1636.061	1372.983	1231.627	1519.574	2481.578	2662.199	1819.300	1952.803	2132.115
72.5	1934.479	1473.764	1260.422	1151.787	1361.203	2414.826	2637.331	1764.328	1866.419	2067.981
75.0	1153.096	969.857	866.458	836.354	913.577	1591.560	2269.544	1494.706	1450.205	1692.342
77.5	770.912	655.733	611.232	595.526	655.733	934.518	1715.901	1280.054	1142.625	1300.996
80.0	513.069	431.920	408.361	409.670	454.171	596.835	1095.507	989.490	882.164	996.034
82.5	290.564	234.284	227.740	243.446	276.167	350.772	590.291	722.485	645.263	744.735
85.0	119.105	90.311	87.693	98.164	121.723	158.371	278.785	346.845	312.815	344.227
87.5	18.324	13.088	11.780	15.706	24.868	35.339	73.296	79.840	73.296	68.060
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

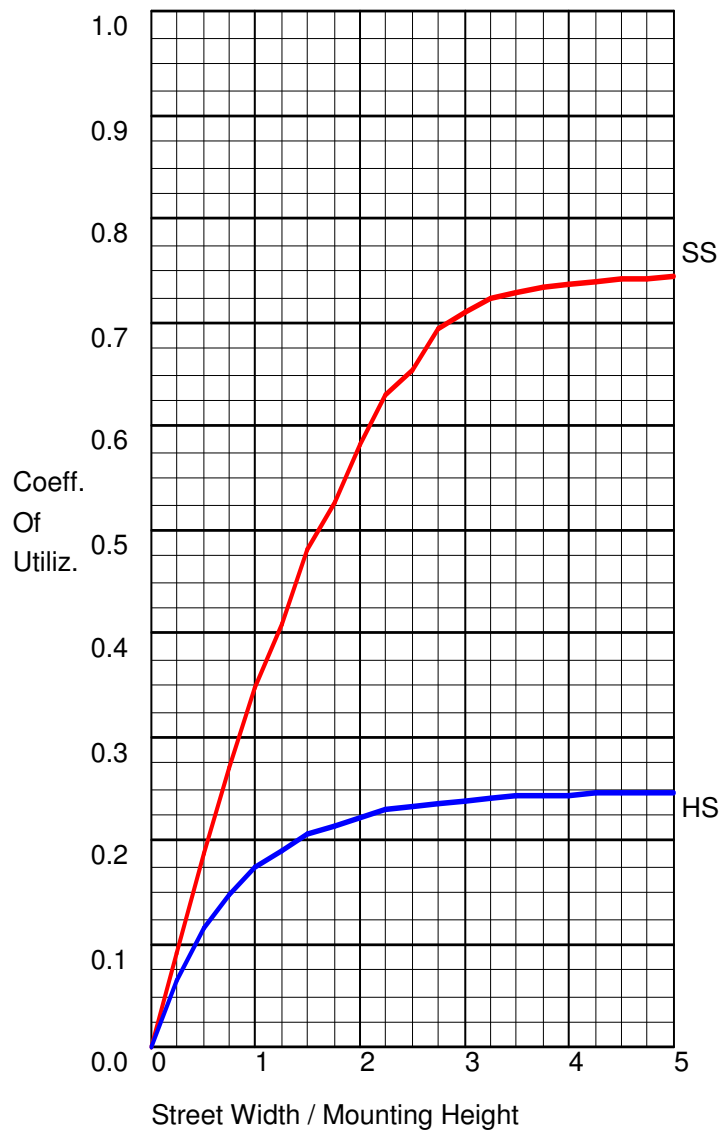
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	5262.882	5262.882
2.5	4810.020	4825.726
5.0	4363.702	4374.173
7.5	4156.904	4159.522
10.0	4169.993	4167.375
12.5	4334.908	4332.290
15.0	4499.823	4501.132
17.5	4493.279	4503.749
20.0	4374.173	4391.188
22.5	4196.170	4219.729
25.0	4005.078	4024.711
27.5	3813.986	3833.619
30.0	3660.851	3677.866
32.5	3584.937	3607.188
35.0	3540.436	3563.996
37.5	3540.436	3556.143
40.0	3561.378	3565.305
42.5	3557.452	3562.687
45.0	3471.067	3468.450
47.5	3370.286	3385.992
50.0	3399.081	3416.096
52.5	3409.552	3418.714
55.0	3342.800	3355.889
57.5	3251.181	3269.505
60.0	3153.017	3170.032

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

62.5	2981.558	3003.808
65.0	2739.421	2793.084
67.5	2484.195	2571.888
70.0	2213.264	2332.369
72.0	2006.465	2129.497
72.5	1951.494	2070.599
75.0	1625.590	1725.063
77.5	1353.350	1485.544
80.0	1252.568	1363.821
82.5	696.308	751.279
85.0	246.064	235.593
87.5	32.721	7.853
90.0	0.000	0.000

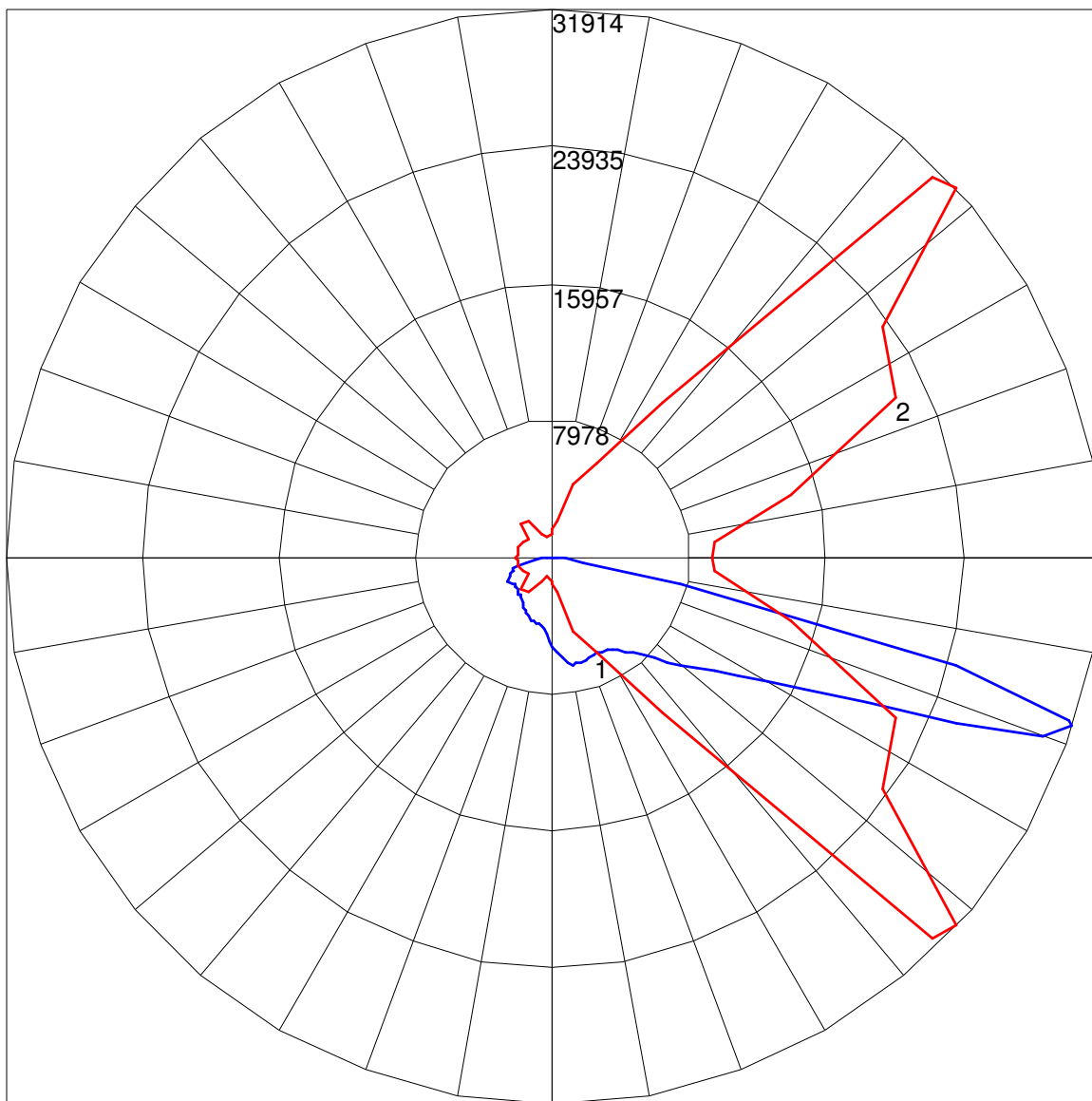
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

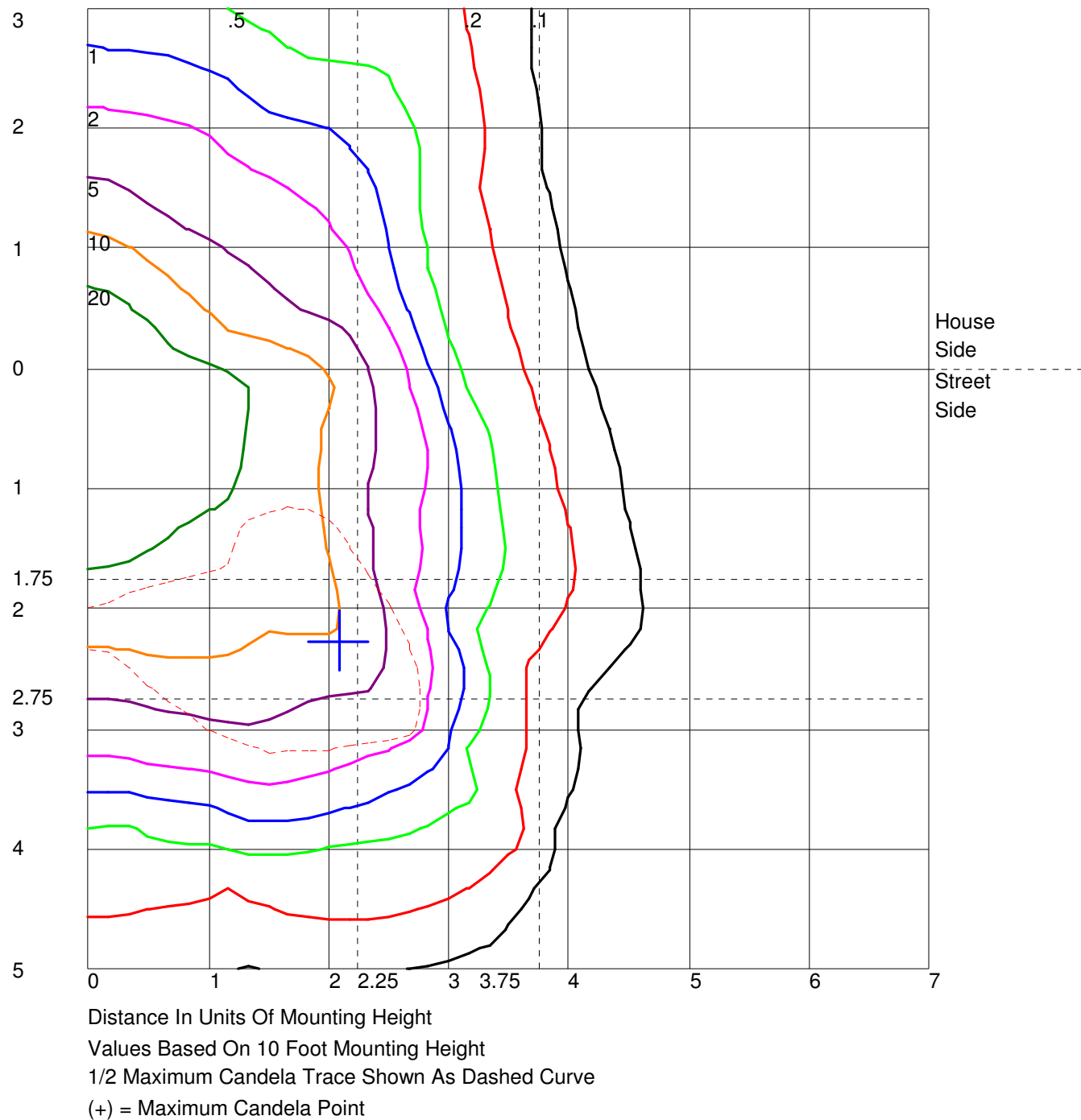
	Lumens	Percent Of Luminaire
Downward Street Side	25088.9	74.9
Downward House Side	8411.5	25.1
Downward Total	33500.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	33500.4	100.0

POLAR GRAPH

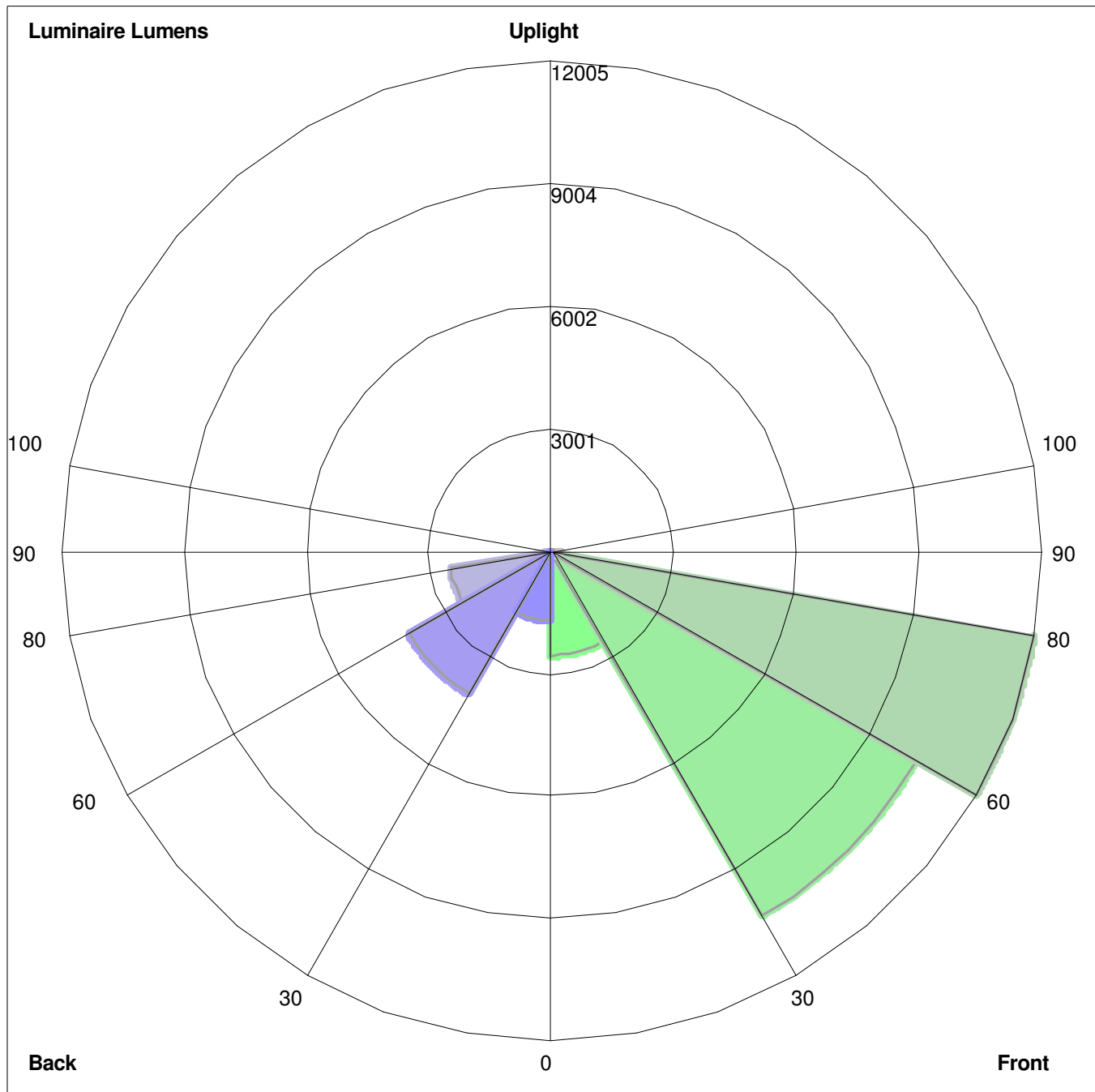


Maximum Candela = 31913.665 Located At Horizontal Angle = 42.5, Vertical Angle = 72
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2559.2, Medium= 10314.0, High=12004.8, Very High=211.1
Back: Low=1697.9, Medium=4047.1, High=2508.3, Very High=158.1
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G5