



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-750-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L330-750-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE III OPTICS, CLEAR LENS,
[MORE] (2) LED MODULES AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Area, Parking
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	35361
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	26121.957
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	26121.957
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	6064.582 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	3514.8	N.A.	9.9
FM - Front-Medium (30-60)	12293.2	N.A.	34.8
FH - Front-High (60-80)	8710.9	N.A.	24.6
FVH - Front-Very High (80-90)	291.5	N.A.	0.8
BL - Back-Low (0-30)	1892.4	N.A.	5.4
BM - Back-Medium (30-60)	4357.4	N.A.	12.3
BH - Back-High (60-80)	3901.3	N.A.	11.0
BVH - Back-Very High (80-90)	399.6	N.A.	1.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	35361.1	N.A.	100.0
BUG Rating	B4-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>45.0</u>	<u>55.0</u>	<u>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440
2.5	7615.443	7602.465	7602.465	7615.443	7579.105	7547.958	7544.065	7519.407	7498.642	7455.815
5.0	7925.615	7932.104	7925.615	7915.233	7868.513	7817.899	7790.645	7710.182	7684.226	7576.509
7.5	7977.527	7990.505	7989.207	7998.292	7999.590	7993.101	7980.123	7887.980	7863.321	7703.693
10.0	7928.211	7930.807	7928.211	7946.380	7977.527	8026.843	8073.564	8032.034	8015.163	7843.855
12.5	7912.638	7912.638	7895.766	7910.042	7947.678	8012.568	8098.222	8121.582	8128.071	7987.910
15.0	7980.123	7967.145	7938.593	7924.318	7954.167	8021.652	8116.391	8189.067	8204.641	8141.049
17.5	8109.902	8112.498	8074.862	8030.737	8024.248	8074.862	8169.600	8272.126	8287.699	8300.677
20.0	8285.104	8292.891	8259.148	8208.534	8186.472	8191.663	8278.615	8394.118	8417.479	8483.666
22.5	8425.265	8449.923	8425.265	8412.287	8398.012	8395.416	8461.604	8558.938	8595.276	8671.846
25.0	8543.364	8545.960	8536.875	8568.023	8627.721	8644.592	8690.015	8751.011	8795.136	8853.537
27.5	8657.570	8636.805	8606.956	8664.059	8817.199	8930.106	8957.360	8975.529	8994.996	9028.739
30.0	8757.500	8741.927	8704.291	8708.184	8913.235	9224.705	9279.212	9246.768	9228.599	9214.323
32.5	8771.776	8760.096	8774.371	8814.603	8984.614	9501.135	9641.296	9525.793	9495.944	9373.951
35.0	8748.416	8745.820	8797.732	8926.213	9209.132	9759.396	10050.101	9887.877	9795.734	9529.686
37.5	8693.908	8687.419	8776.967	9080.650	9593.278	10098.119	10513.413	10279.810	10122.777	9634.807
40.0	8592.681	8616.041	8756.202	9357.080	10449.821	111175.287	11144.140	10701.592	10501.733	9749.013
42.5	8547.258	8574.511	8704.291	9301.275	10676.934	12282.303	12462.696	11564.624	11171.393	9930.704
45.0	8954.765	8961.253	8898.959	9289.595	10482.266	12235.583	13502.228	12999.982	12567.817	10499.137
47.5	9825.583	9812.605	9761.991	9847.645	10525.093	11899.454	13609.944	13917.521	13765.679	11895.561
50.0	9786.649	9759.396	10052.697	10618.534	11146.735	11816.396	13160.908	13879.885	13835.760	12545.755
52.5	9075.459	9092.330	9663.359	10644.490	11899.454	12438.038	12926.008	13399.702	13437.338	12271.921
55.0	7156.025	7248.168	8436.946	10408.292	12489.950	14087.532	13625.518	13560.628	13632.007	12532.777
57.5	5275.524	5380.645	6590.188	9266.235	12663.854	16310.649	15569.610	14546.950	14465.189	13127.166
60.0	4164.614	4233.397	4953.672	6729.051	11464.694	18171.683	19479.857	16383.326	16083.536	14196.546
62.5	3226.311	3205.546	3580.608	4395.621	8683.526	17495.533	24018.236	19588.872	18676.524	15833.062
65.0	2268.540	2289.305	2508.632	2888.885	5167.808	15617.628	24843.631	23809.291	22342.786	17925.103
67.5	1958.368	1970.048	2233.500	2338.621	2730.554	10734.037	22584.176	26121.957	25230.373	19421.457
70.0	1562.542	1526.203	1879.203	2041.427	2018.066	4799.235	18616.826	24276.496	24920.201	20019.739
72.5	1110.910	1071.976	1206.947	1719.574	1552.159	2490.463	11933.197	19427.946	20721.844	18723.245
75.0	847.458	837.076	860.436	1314.663	1247.178	1511.928	5171.701	13015.556	14339.303	13368.555
77.5	567.135	561.944	584.006	866.925	1044.723	1009.682	2102.423	6107.409	7473.984	8709.482
80.0	355.595	345.213	377.657	539.881	900.668	648.896	1020.064	2252.967	3545.568	6064.582
82.5	185.584	186.882	208.945	314.066	615.153	364.680	517.819	821.502	1208.244	3082.256
85.0	72.676	72.676	84.356	136.268	220.625	145.353	197.264	262.154	341.319	707.297
87.5	9.085	10.382	12.978	20.765	28.551	20.765	32.445	32.445	42.827	46.721
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	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440	7323.440
2.5	7389.627	7383.138	7337.716	7270.231	7188.470	7098.922	7049.606	6993.801	6905.551	6883.489
5.0	7432.455	7375.352	7287.102	7126.176	6949.676	6749.816	6600.570	6455.217	6324.140	6242.379
7.5	7497.344	7393.521	7259.848	6996.396	6700.500	6356.585	6026.946	5689.520	5348.201	5097.727
10.0	7584.296	7424.668	7253.359	6877.000	6426.666	5847.851	5152.234	4492.956	3977.732	3732.450
12.5	7685.524	7473.984	7263.742	6757.603	6102.218	5118.491	4114.001	3605.266	3432.660	3384.641
15.0	7808.814	7550.554	7294.889	6643.397	5675.244	4286.607	3565.035	3409.299	3361.281	3339.219
17.5	7960.656	7654.377	7349.396	6521.405	5123.683	3722.067	3446.935	3375.557	3337.921	3322.347
20.0	8131.964	7790.645	7428.561	6392.923	4517.614	3506.634	3409.299	3357.388	3314.561	3283.414
22.5	8321.442	7943.785	7515.513	6239.784	4028.346	3453.424	3382.046	3321.050	3261.351	3205.546
25.0	8507.026	8091.733	7593.381	6039.924	3728.556	3426.171	3337.921	3248.373	3173.101	3110.807
27.5	8696.504	8248.766	7666.057	5790.748	3584.501	3393.726	3263.947	3165.315	3086.149	3012.175

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CANDELA TABULATION - (Cont.)

30.0	8883.386	8409.692	7747.818	5510.425	3519.612	3340.516	3178.293	3065.385	2987.517	2921.330
32.5	9048.206	8548.556	7820.494	5209.337	3468.998	3267.840	3087.447	2961.561	2892.778	2839.569
35.0	9166.305	8636.805	7865.917	4910.845	3404.108	3179.590	2994.006	2855.142	2798.039	2743.532
37.5	9200.047	8652.379	7865.917	4649.989	3328.836	3082.256	2900.565	2752.617	2698.109	2639.709
40.0	9236.385	8670.548	7855.535	4448.831	3257.458	2988.815	2813.613	2660.474	2602.073	2530.694
42.5	9283.106	8673.144	7846.450	4287.905	3204.248	2905.756	2725.363	2578.713	2487.867	2415.191
45.0	9555.642	8904.151	8021.652	4219.122	3149.741	2835.675	2660.474	2506.036	2367.173	2297.092
47.5	10490.052	9669.848	8735.438	4569.525	3240.587	2795.444	2618.944	2468.400	2289.305	2230.904
50.0	11006.574	10200.645	9218.216	5097.727	3740.236	2923.925	2618.944	2498.250	2337.323	2390.533
52.5	10730.144	9952.767	8969.040	4818.702	3928.416	3371.664	2696.812	2538.481	2554.055	2901.863
55.0	11019.552	10275.917	9383.036	4897.867	3467.700	3219.822	2988.815	2552.757	2804.528	3476.785
57.5	11562.029	10894.963	10181.178	5736.240	3395.024	2792.848	2724.065	2583.904	2926.521	3772.681
60.0	12356.277	11615.238	11228.496	7036.628	3462.509	2626.731	2373.661	2358.088	2874.609	3618.244
62.5	13327.026	12463.994	12220.009	8387.629	3666.262	2504.738	2182.886	2176.397	2727.959	3228.906
65.0	14301.667	12968.835	12611.942	9062.481	4094.534	2402.213	2016.769	2028.449	2551.459	2840.867
67.5	14666.347	13124.570	12793.633	9311.657	4595.481	2278.923	1846.758	1863.629	2319.154	2434.658
70.0	14537.866	13192.055	13068.765	9197.452	5066.580	2133.570	1645.600	1655.983	2036.236	2120.592
72.5	13160.908	12208.329	12208.329	8758.798	5387.134	2007.684	1422.380	1434.060	1749.424	1785.762
75.0	8937.893	8212.428	8322.740	7202.745	5357.285	1912.945	1197.862	1214.733	1461.314	1408.104
77.5	5519.509	4957.565	5019.859	5790.748	5043.220	1819.504	962.962	979.833	1153.737	813.716
80.0	4234.695	3668.858	3798.637	4534.485	4524.103	1700.107	709.892	731.955	833.182	390.635
82.5	1983.026	1800.037	2010.280	2734.448	3574.119	1495.056	384.146	469.801	468.503	246.580
85.0	268.643	255.665	352.999	935.708	2049.214	968.153	168.713	188.180	149.246	116.801
87.5	31.147	27.254	31.147	64.890	530.797	334.830	36.338	38.934	29.849	23.360
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

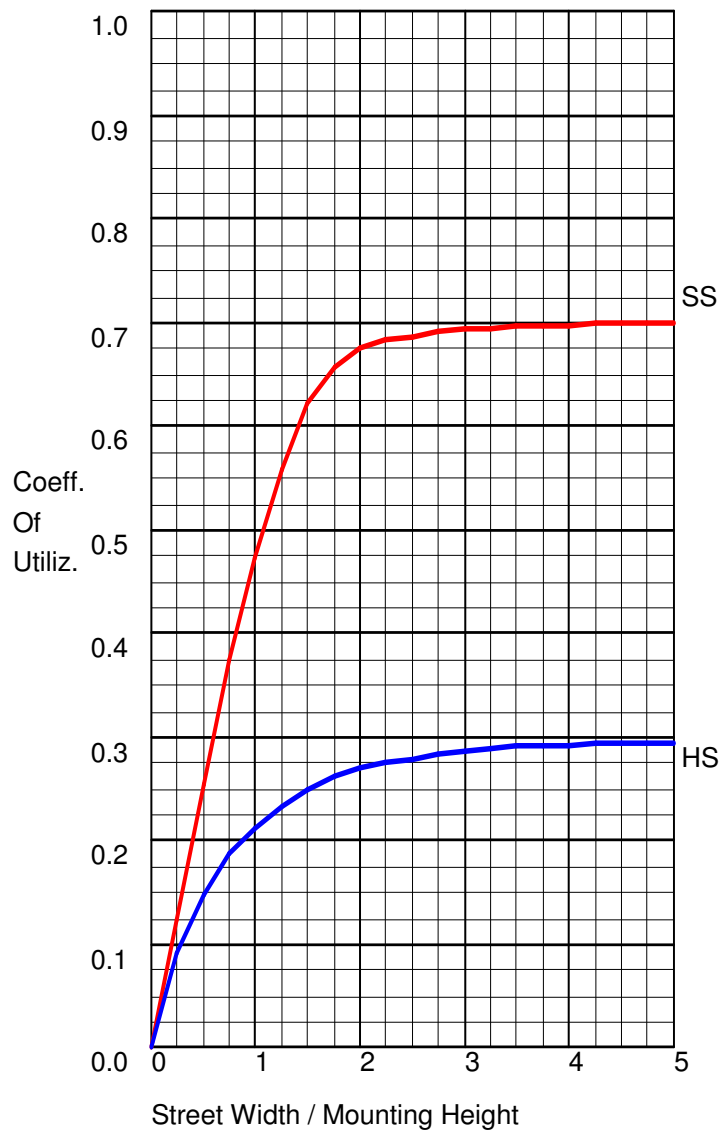
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	7323.440	7323.440
2.5	6914.636	6919.827
5.0	6209.935	6217.721
7.5	4987.414	4988.712
10.0	3650.689	3644.200
12.5	3370.366	3363.877
15.0	3332.730	3331.432
17.5	3315.858	3313.263
20.0	3273.031	3267.840
22.5	3187.377	3179.590
25.0	3079.660	3082.256
27.5	2966.752	2969.348
30.0	2869.418	2870.716
32.5	2777.275	2777.275
35.0	2686.429	2685.132
37.5	2595.584	2585.202
40.0	2485.272	2474.889
42.5	2360.684	2351.599
45.0	2252.967	2247.776
47.5	2194.566	2194.566
50.0	2408.702	2439.849
52.5	3052.407	3103.021
55.0	3781.766	3840.166
57.5	4254.162	4360.581
60.0	3980.328	3995.901
62.5	3361.281	3321.050
65.0	2787.657	2791.551

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L330-750-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	2247.776	2227.011
70.0	1874.012	1861.034
72.5	1544.372	1527.501
75.0	1061.594	1053.807
77.5	590.495	586.602
80.0	394.529	384.146
82.5	251.772	251.772
85.0	93.441	77.868
87.5	10.382	3.893
90.0	0.000	0.000

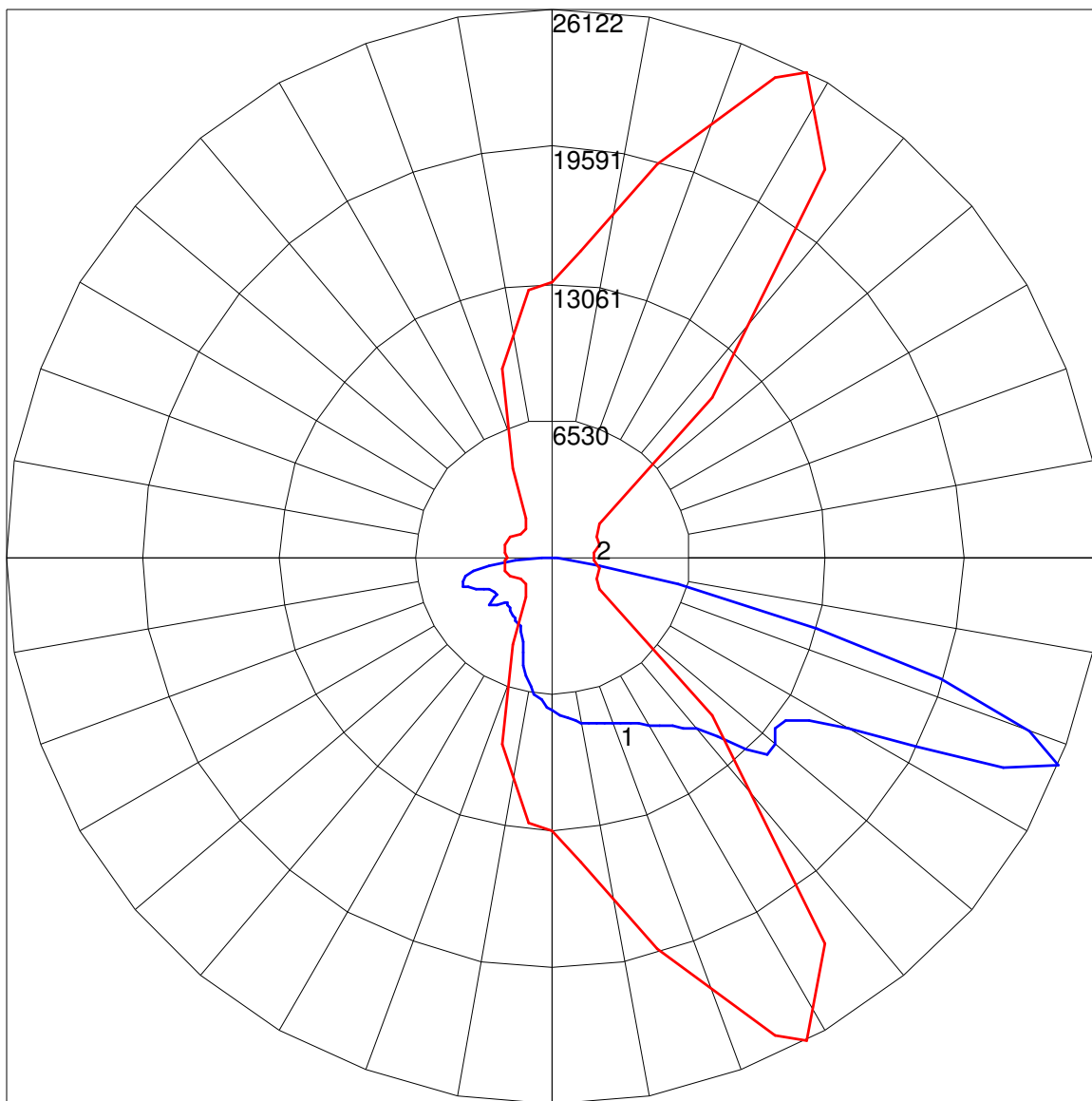
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

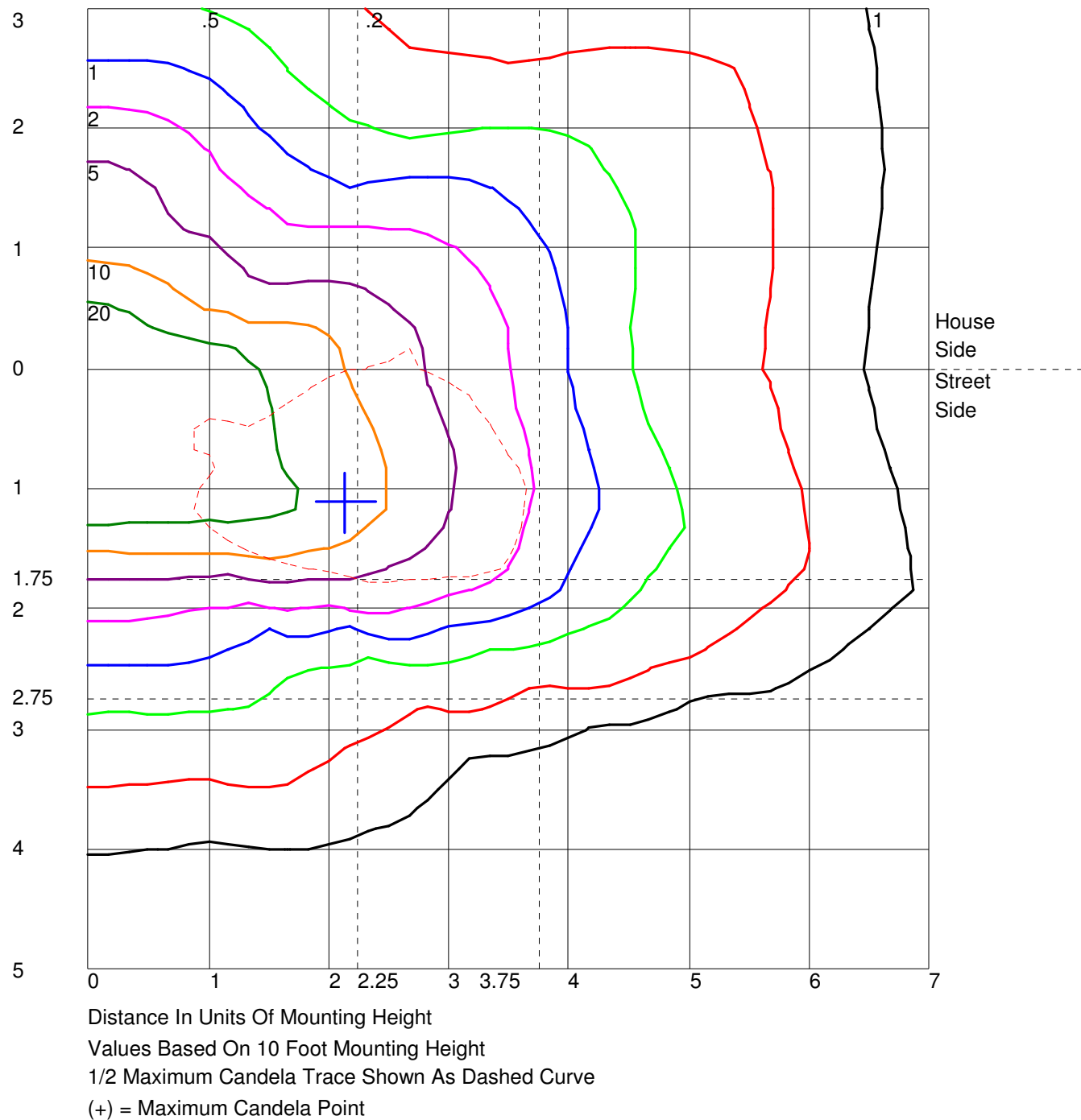
	Lumens	Percent Of Luminaire
Downward Street Side	24810.3	70.2
Downward House Side	10550.7	29.8
Downward Total	35361.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	35361.0	100.0

POLAR GRAPH

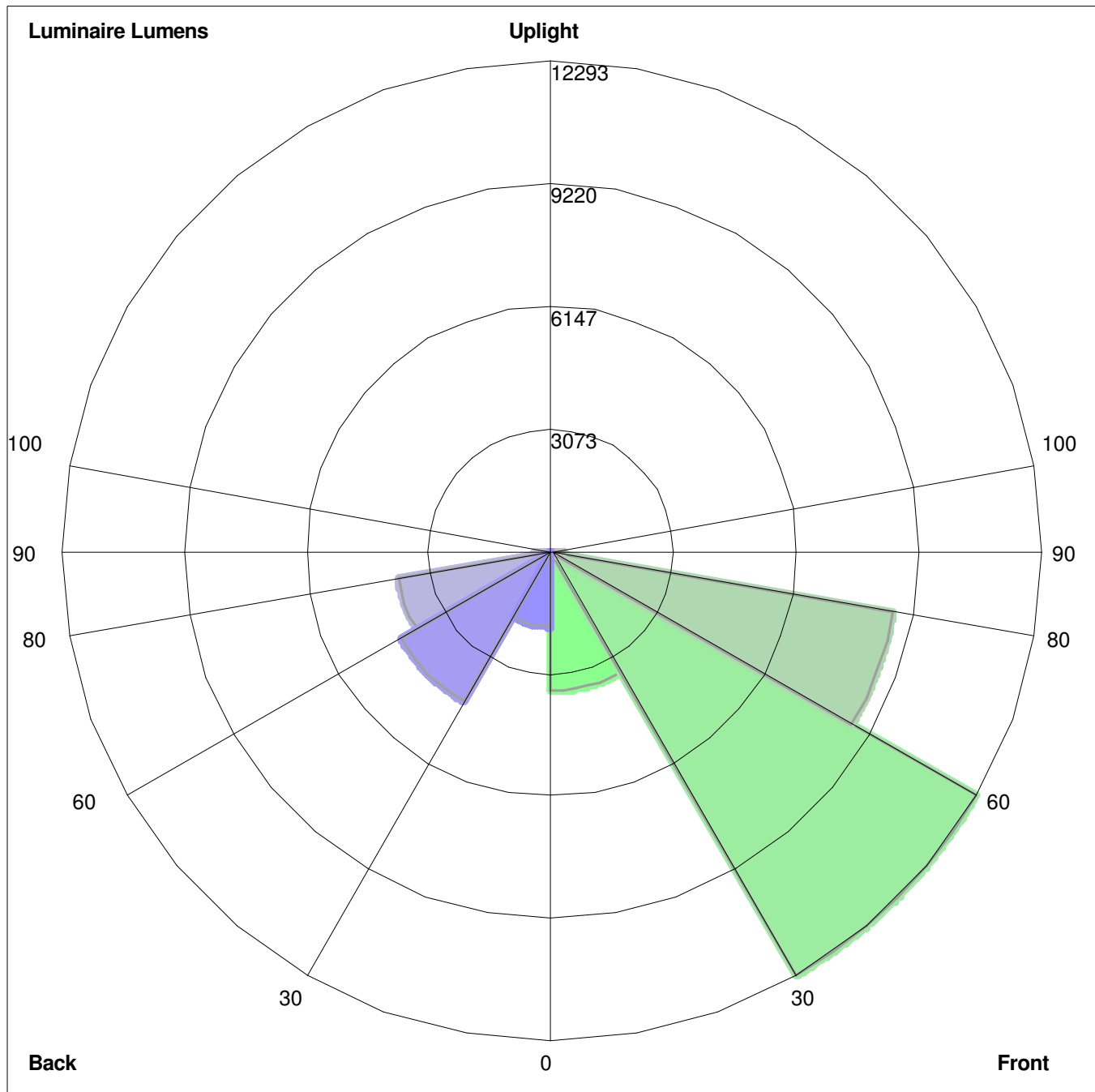


Maximum Candela = 26121.957 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=3514.8, Medium=12293.2, High=8710.9, Very High=291.5
Back: Low=1892.4, Medium=4357.4, High=3901.3, Very High=399.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4