



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L110-740-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011760
[TESTLAB] ATA-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L110-740-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] III OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11329
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	88
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8120.457
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	8120.457
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	1656.153 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L110-740-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1143.1	N.A.	10.1
FM - Front-Medium (30-60)	3959.7	N.A.	35.0
FH - Front-High (60-80)	2646.0	N.A.	23.4
FVH - Front-Very High (80-90)	80.8	N.A.	0.7
BL - Back-Low (0-30)	620.6	N.A.	5.5
BM - Back-Medium (30-60)	1471.6	N.A.	13.0
BH - Back-High (60-80)	1289.3	N.A.	11.4
BVH - Back-Very High (80-90)	117.7	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11328.8	N.A.	100.0
BUG Rating	B3-U0-G3		

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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	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269
2.5	2484.522	2467.033	2462.953	2462.370	2450.128	2444.298	2426.227	2417.483	2409.904	2394.748
5.0	2611.021	2595.282	2587.120	2578.959	2557.973	2538.736	2506.674	2479.275	2467.033	2427.393
7.5	2657.074	2643.666	2637.254	2637.254	2630.841	2616.268	2578.376	2541.651	2527.660	2466.450
10.0	2629.676	2622.097	2615.685	2623.846	2634.339	2647.747	2636.088	2601.111	2588.869	2513.086
12.5	2608.107	2603.443	2595.865	2604.609	2615.685	2640.169	2656.491	2645.415	2640.169	2563.220
15.0	2616.268	2612.770	2601.111	2601.694	2607.524	2632.007	2662.321	2673.397	2677.477	2623.263
17.5	2658.240	2654.742	2638.420	2629.093	2622.097	2640.752	2674.563	2698.463	2708.373	2683.307
20.0	2710.705	2712.454	2692.051	2682.141	2665.818	2673.980	2701.961	2732.857	2742.767	2742.767
22.5	2766.085	2766.085	2750.346	2743.350	2734.023	2732.857	2748.597	2781.242	2788.820	2802.811
25.0	2809.223	2809.806	2801.062	2800.479	2809.806	2812.138	2813.887	2835.456	2844.200	2861.106
27.5	2845.366	2847.698	2834.290	2845.366	2879.177	2901.912	2898.414	2897.248	2906.576	2918.235
30.0	2885.589	2883.258	2868.684	2871.599	2931.059	3001.596	2999.264	2972.449	2974.197	2975.946
32.5	2889.087	2889.670	2887.338	2897.248	2963.121	3102.446	3110.607	3066.886	3055.227	3033.075
35.0	2866.352	2869.850	2884.424	2928.145	3012.089	3194.552	3249.349	3181.727	3155.494	3085.540
37.5	2834.873	2840.120	2862.855	2967.202	3138.006	3291.321	3403.247	3310.558	3259.842	3121.683
40.0	2799.313	2808.057	2847.115	3065.137	3468.537	3673.734	3612.525	3457.461	3384.010	3158.992
42.5	2748.597	2764.919	2813.304	3012.089	3474.949	4056.148	4129.016	3760.594	3617.188	3220.201
45.0	2847.698	2855.859	2833.124	2967.785	3385.175	4004.266	4469.458	4328.384	4163.410	3438.807
47.5	3138.006	3129.844	3091.953	3116.437	3354.279	3857.363	4460.713	4590.711	4550.487	3997.853
50.0	3127.513	3115.854	3188.722	3354.279	3497.684	3801.983	4243.274	4474.121	4461.879	4070.722
52.5	2849.447	2839.537	3020.250	3372.351	3744.271	3969.872	4154.083	4297.488	4302.152	3944.805
55.0	2199.460	2216.366	2555.058	3237.107	3951.217	4459.547	4401.253	4377.935	4378.518	4038.076
57.5	1646.826	1691.130	1994.263	2776.578	3958.213	5210.384	5077.472	4708.466	4657.167	4205.965
60.0	1328.537	1354.770	1523.824	1948.210	3430.062	5671.495	6347.131	5360.201	5198.725	4548.738
62.5	960.114	985.181	1076.704	1277.821	2386.004	5349.708	7580.648	6498.697	6137.853	5128.771
65.0	768.908	784.064	841.776	888.412	1334.367	4416.992	7647.104	7696.654	7284.510	5839.967
67.5	673.304	677.385	754.334	765.993	819.624	2489.768	6807.659	8120.457	8023.105	6270.765
70.0	533.980	524.070	635.413	669.224	633.664	1216.611	5160.250	7282.762	7514.775	6355.292
72.5	376.001	366.091	409.812	568.957	499.586	691.376	2856.442	5543.830	5969.964	5734.453
75.0	290.308	287.393	291.474	438.376	414.476	448.287	1249.839	3365.355	3803.149	3828.798
77.5	200.534	198.202	202.866	292.057	353.266	308.962	536.895	1341.362	1783.819	2493.849
80.0	129.414	127.083	133.495	184.211	308.962	203.449	280.981	514.160	757.249	1656.153
82.5	70.537	68.205	76.366	109.011	205.197	113.092	147.486	219.188	273.985	758.415
85.0	29.730	27.981	33.228	49.551	72.868	47.219	60.044	78.115	88.608	166.723
87.5	5.829	5.829	6.412	11.076	13.408	9.910	11.659	15.157	16.323	19.820
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	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269	2363.269
2.5	2373.762	2365.600	2358.022	2334.121	2316.633	2290.400	2265.916	2260.087	2236.186	2226.859
5.0	2381.340	2356.856	2337.036	2284.571	2232.105	2171.479	2112.018	2072.961	2018.747	1989.016
7.5	2395.914	2356.856	2323.628	2237.352	2143.497	2030.989	1910.901	1803.056	1671.893	1613.598
10.0	2417.483	2365.600	2316.050	2193.631	2046.145	1846.777	1613.015	1418.894	1283.650	1225.355
12.5	2445.464	2381.340	2313.718	2148.744	1928.390	1599.608	1310.466	1202.620	1179.303	1171.141
15.0	2482.190	2405.241	2320.713	2105.606	1778.572	1355.936	1198.540	1175.222	1167.644	1167.061
17.5	2526.494	2436.720	2335.287	2059.553	1594.361	1221.858	1181.634	1171.141	1166.478	1164.146
20.0	2575.461	2475.195	2356.856	2006.505	1413.647	1188.047	1173.473	1165.895	1153.070	1140.828
22.5	2632.590	2522.413	2382.506	1942.964	1284.233	1177.554	1161.814	1144.326	1126.837	1109.932
25.0	2694.383	2569.049	2407.573	1868.346	1225.355	1168.809	1140.828	1113.429	1093.026	1073.789
27.5	2762.005	2617.434	2426.227	1781.487	1204.369	1156.568	1112.847	1080.201	1059.215	1038.229

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CANDELA TABULATION - (Cont.)

30.0	2831.958	2669.316	2450.711	1691.713	1189.796	1136.747	1083.116	1044.642	1022.490	1005.584
32.5	2899.580	2725.862	2478.692	1608.935	1174.639	1111.098	1051.054	1007.916	989.845	977.020
35.0	2950.297	2762.588	2498.512	1529.654	1153.653	1080.784	1022.490	971.773	954.868	948.455
37.5	2968.951	2766.085	2494.432	1463.781	1128.003	1048.722	992.759	942.043	923.389	911.730
40.0	2987.605	2775.412	2493.266	1418.311	1105.851	1018.409	967.110	913.479	889.578	874.421
42.5	3012.672	2795.233	2505.508	1384.500	1086.031	992.176	944.375	888.995	851.103	833.615
45.0	3147.333	2937.472	2618.017	1398.491	1075.538	970.607	926.886	866.843	814.377	796.306
47.5	3516.922	3255.178	2921.149	1599.608	1158.316	965.361	916.393	860.430	795.140	779.984
50.0	3590.373	3323.383	2980.027	1727.856	1378.671	1075.538	919.891	869.175	819.624	854.018
52.5	3500.016	3235.941	2897.831	1578.039	1305.219	1221.858	996.257	877.919	891.327	1030.068
55.0	3603.781	3357.777	3059.891	1649.158	1178.720	1075.538	1061.547	894.824	958.365	1200.289
57.5	3754.181	3536.742	3326.298	1972.694	1162.980	965.361	923.972	890.744	989.845	1280.735
60.0	3981.531	3748.352	3655.080	2436.720	1190.961	910.564	816.709	798.055	977.603	1220.109
62.5	4327.801	4043.323	3990.858	2890.836	1262.081	865.677	747.339	739.760	930.967	1086.031
65.0	4656.001	4226.951	4113.860	3076.796	1408.401	827.785	686.129	689.044	866.260	936.213
67.5	4776.088	4303.318	4190.809	3129.844	1578.039	778.235	624.920	629.000	769.491	815.543
70.0	4676.404	4285.829	4250.269	3075.047	1727.273	732.182	551.468	556.715	678.551	715.276
72.5	4089.959	3794.987	3843.955	2859.940	1821.128	684.380	475.685	476.268	584.113	605.099
75.0	2540.485	2383.672	2478.692	2337.036	1809.469	649.403	391.741	393.489	486.178	457.614
77.5	1699.875	1517.412	1573.958	1843.863	1689.381	613.261	311.294	308.379	376.001	246.004
80.0	1256.252	1098.856	1178.137	1414.813	1488.265	575.952	212.776	221.520	252.416	123.585
82.5	502.501	464.026	535.729	797.472	1122.757	473.353	106.679	134.078	127.665	69.954
85.0	68.788	56.546	76.366	221.520	568.957	282.729	42.555	46.636	38.475	29.730
87.5	12.242	9.327	10.493	18.071	127.665	80.447	8.744	8.744	5.247	2.915
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

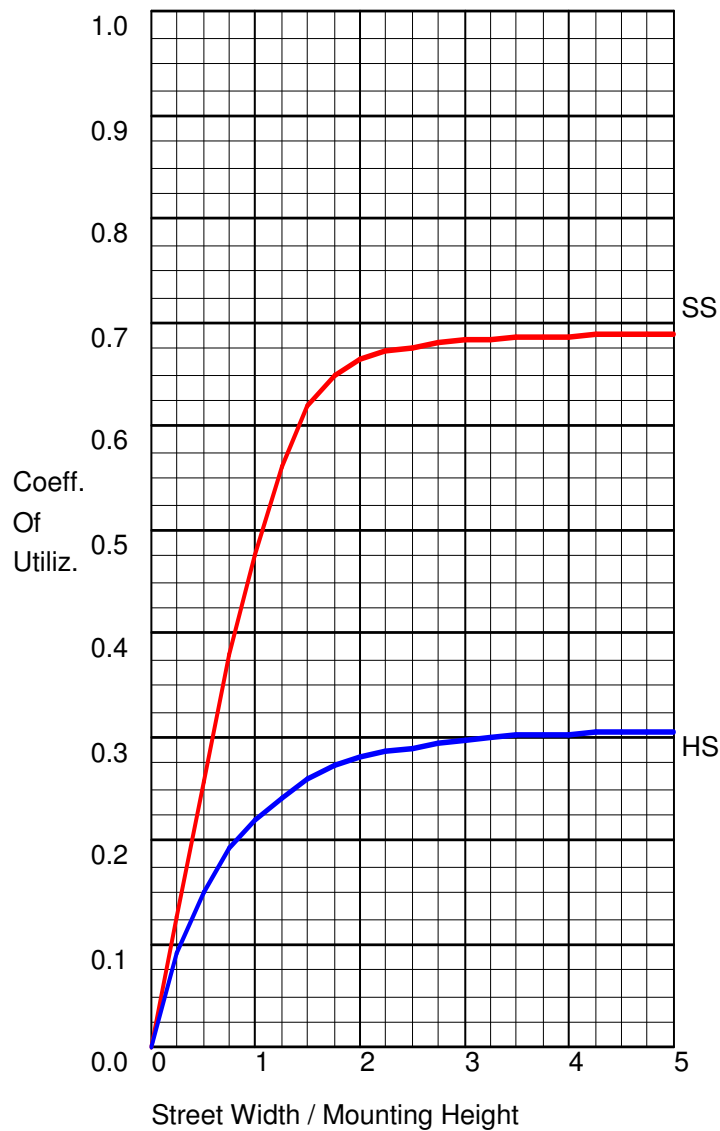
Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	2363.269	2363.269
2.5	2225.693	2220.447
5.0	1982.604	1975.609
7.5	1568.711	1562.882
10.0	1206.701	1204.369
12.5	1169.392	1168.227
15.0	1168.809	1169.392
17.5	1162.980	1161.814
20.0	1135.581	1133.833
22.5	1102.353	1099.439
25.0	1065.045	1061.547
27.5	1028.319	1027.736
30.0	996.840	995.091
32.5	966.527	964.778
35.0	937.379	935.048
37.5	900.654	898.905
40.0	861.013	861.013
42.5	816.126	815.543
45.0	781.732	779.401
47.5	765.410	766.576
50.0	868.592	879.668
52.5	1096.524	1111.681
55.0	1336.115	1360.599
57.5	1468.444	1501.089
60.0	1334.949	1339.613
62.5	1115.178	1101.188
65.0	903.568	882.582

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L110-740-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	748.504	744.424
70.0	634.830	630.749
72.5	525.819	520.572
75.0	339.275	336.361
77.5	198.202	192.956
80.0	129.414	127.083
82.5	80.447	79.281
85.0	16.905	15.740
87.5	0.583	0.000
90.0	0.000	0.000

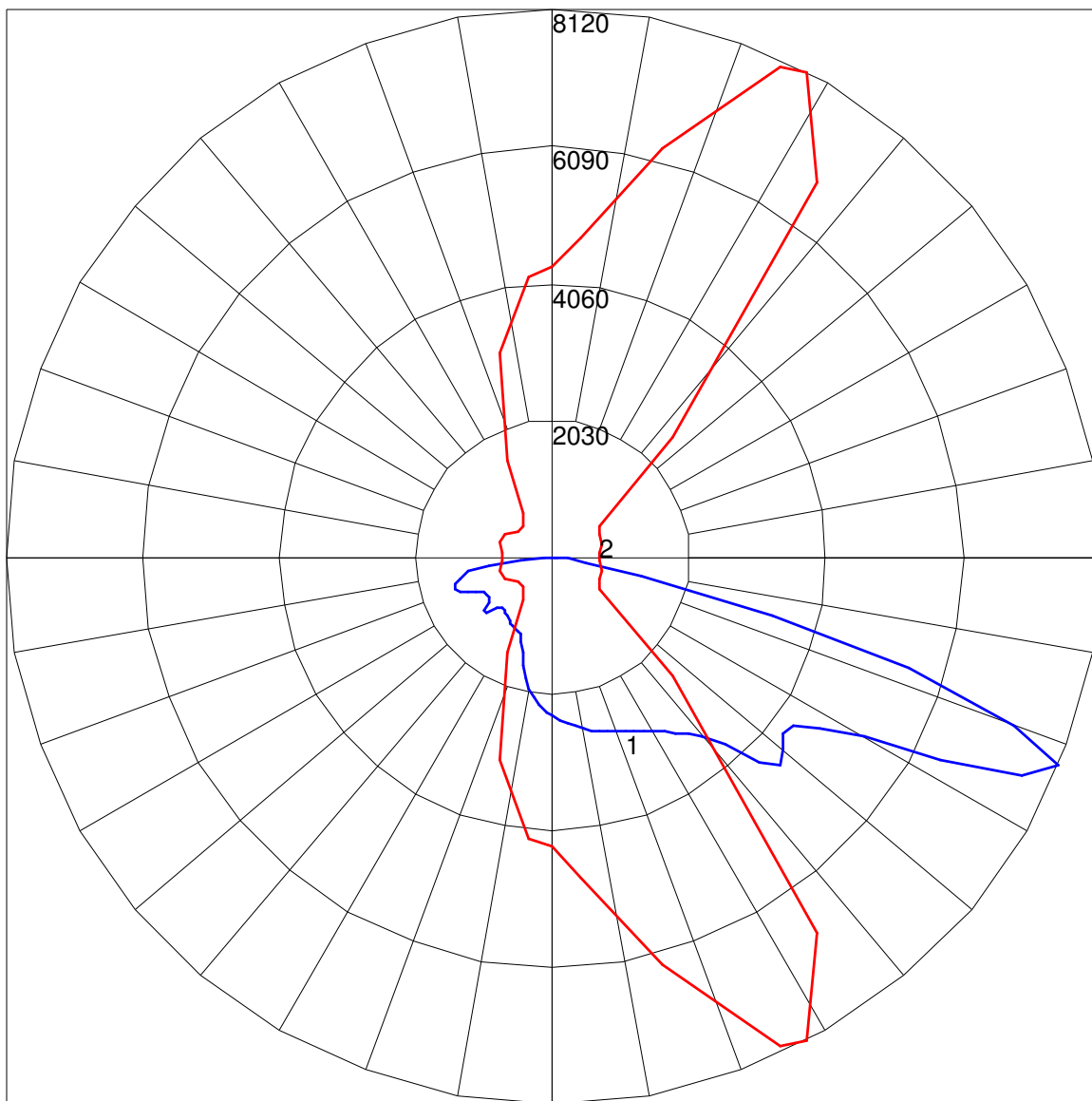
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

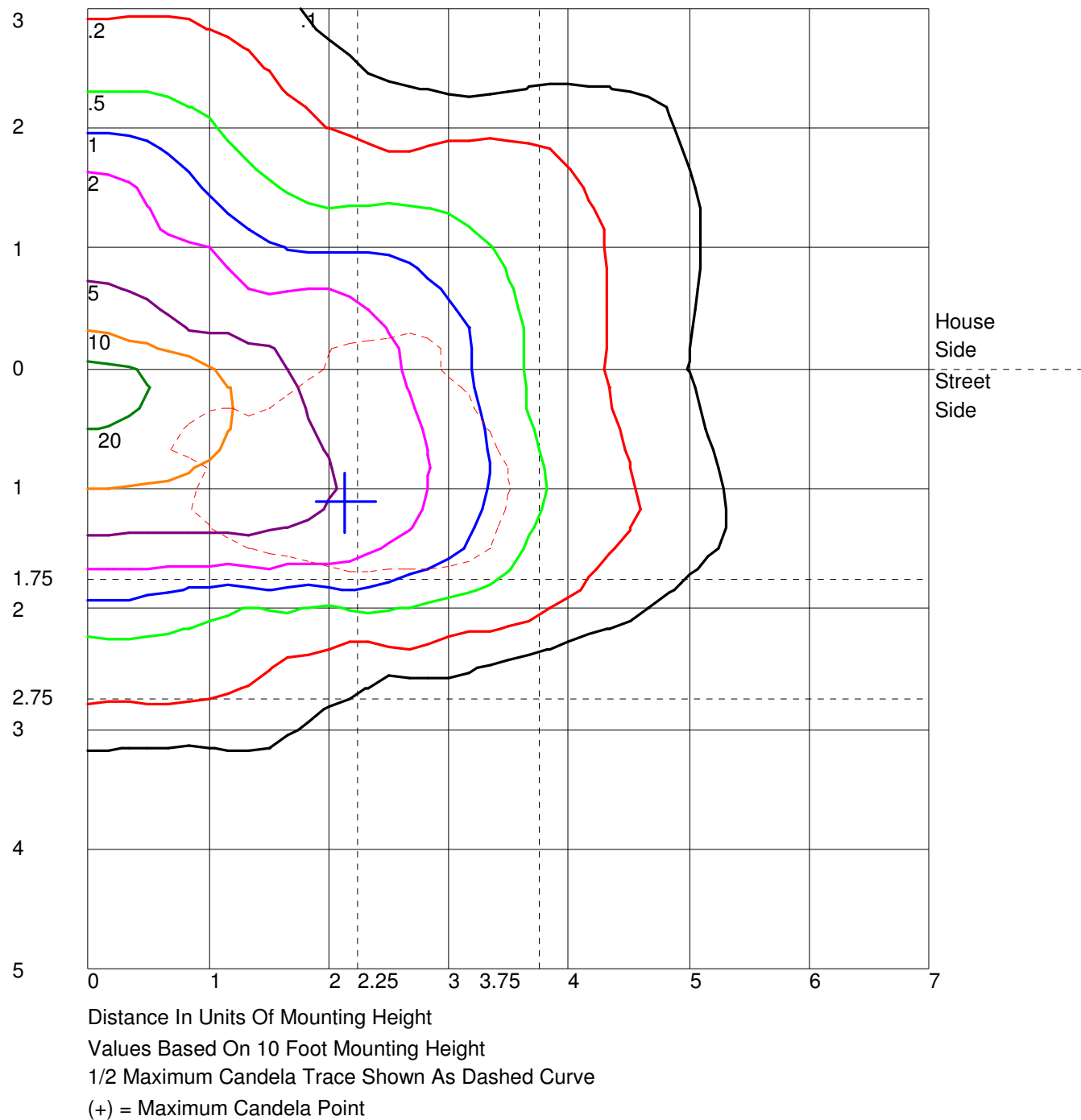
	Lumens	Percent Of Luminaire
Downward Street Side	7829.5	69.1
Downward House Side	3499.2	30.9
Downward Total	11328.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11328.7	100.0

POLAR GRAPH

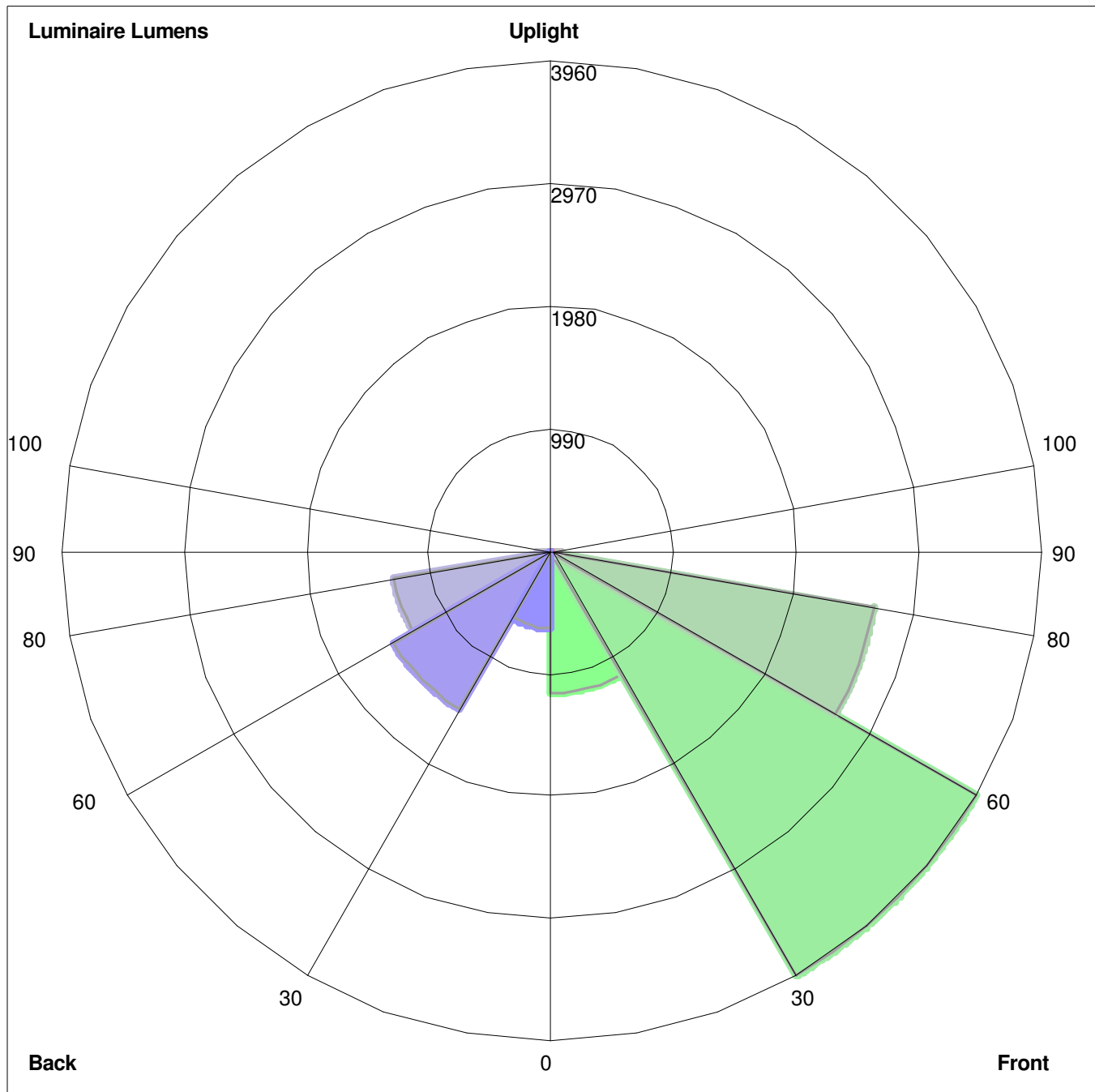


Maximum Candela = 8120.457 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1143.1, Medium=3959.7, High= 2646.0, Very High=80.8
Back: Low=620.6, Medium=1471.6, High=1289.3, Very High=117.7
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3