

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P452476

Luminaire Tested: **GALN-SA3B-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13813 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

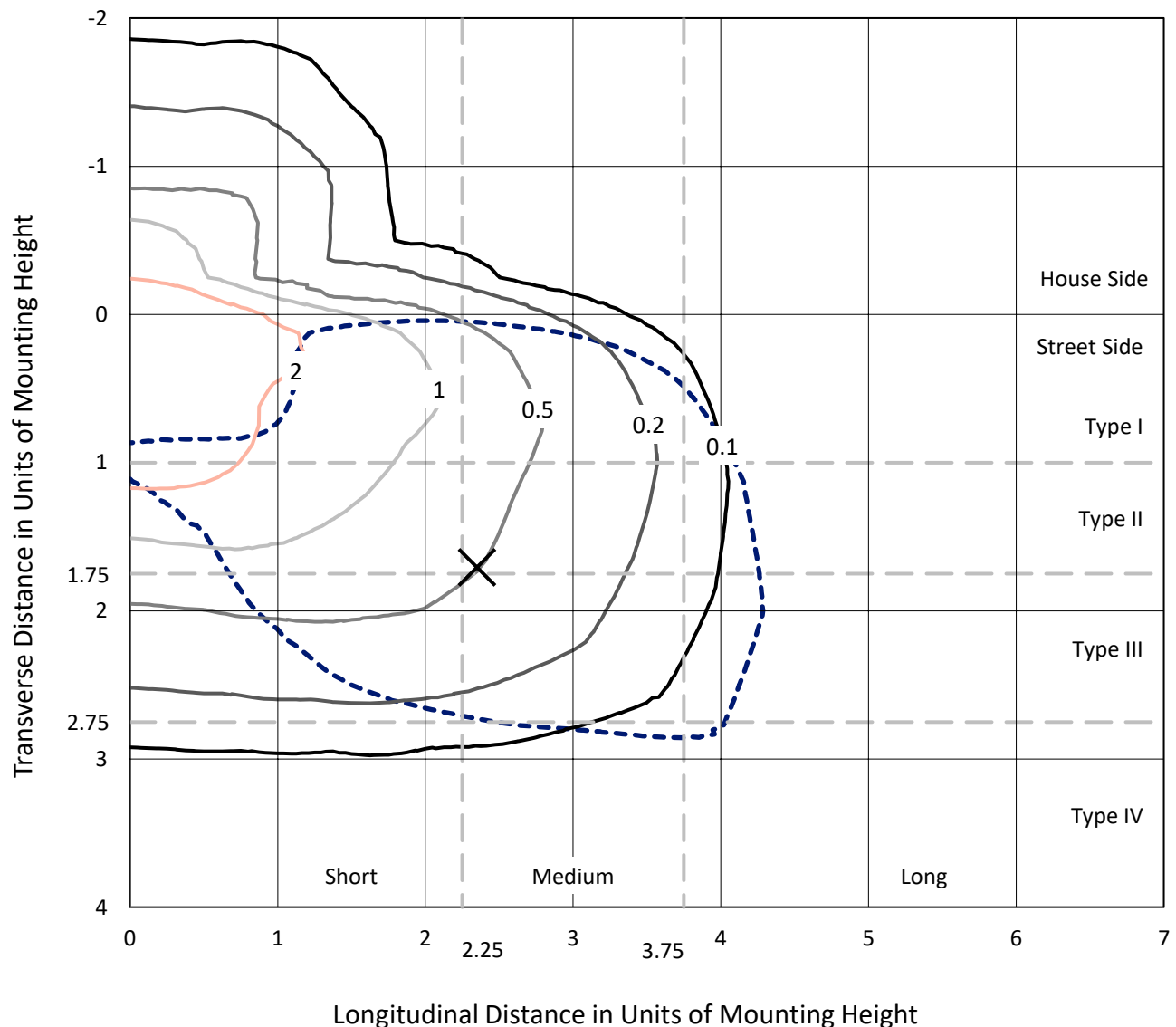


REPORT NUMBER: P452476

CATALOG NUMBER: GALN-SA3B-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

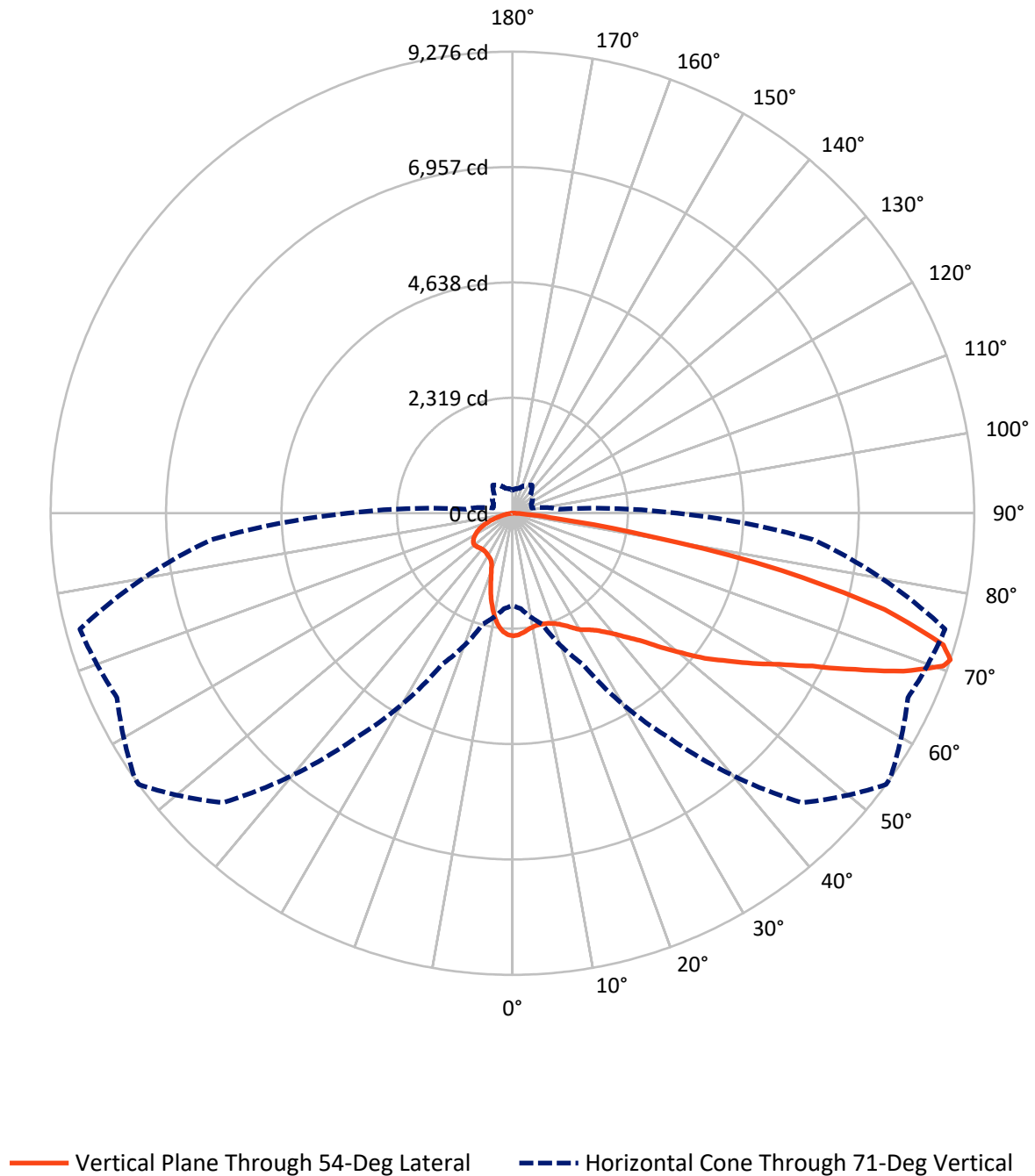


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P452476

CATALOG NUMBER: GALN-SA3B-830-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P452476

CATALOG NUMBER: GALN-SA3B-830-U-T3R

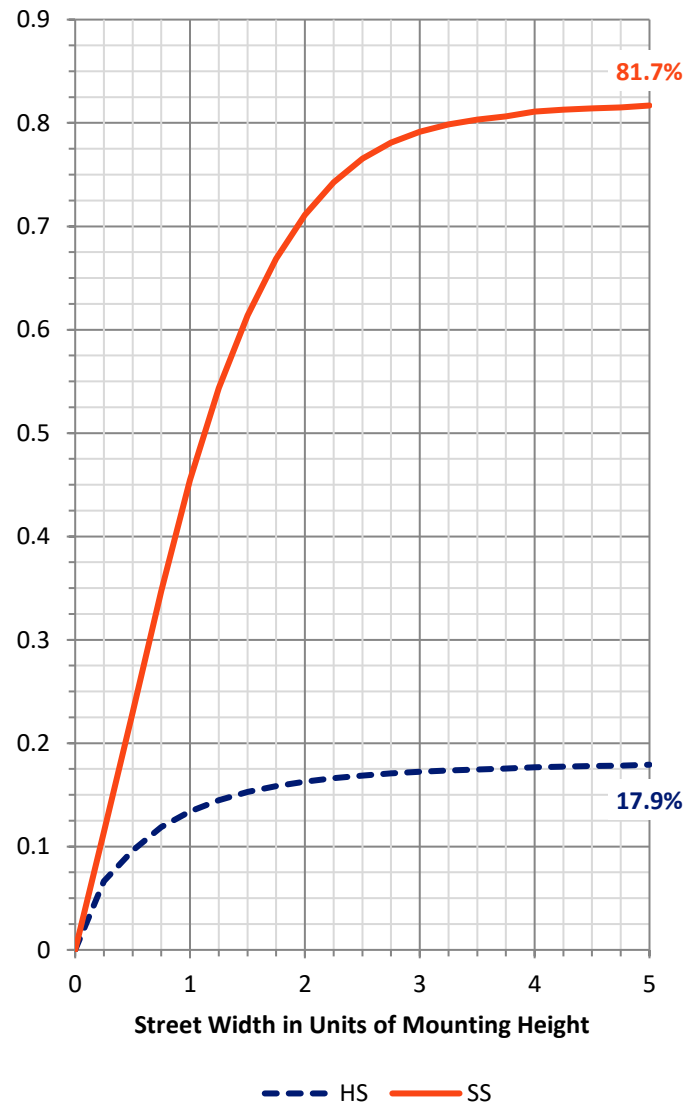
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2493.8	0.0	2493.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11319.2	0.0	11319.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	13813.0	0.0	13813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	1.6
10°-20°	579.9	4.2
20°-30°	965.6	7.0
30°-40°	1427.8	10.3
40°-50°	2011.0	14.6
50°-60°	2692.9	19.5
60°-70°	3394.2	24.6
70°-80°	2318.2	16.8
80°-90°	203.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13813.0	100.0
0°-180°	13813.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452476

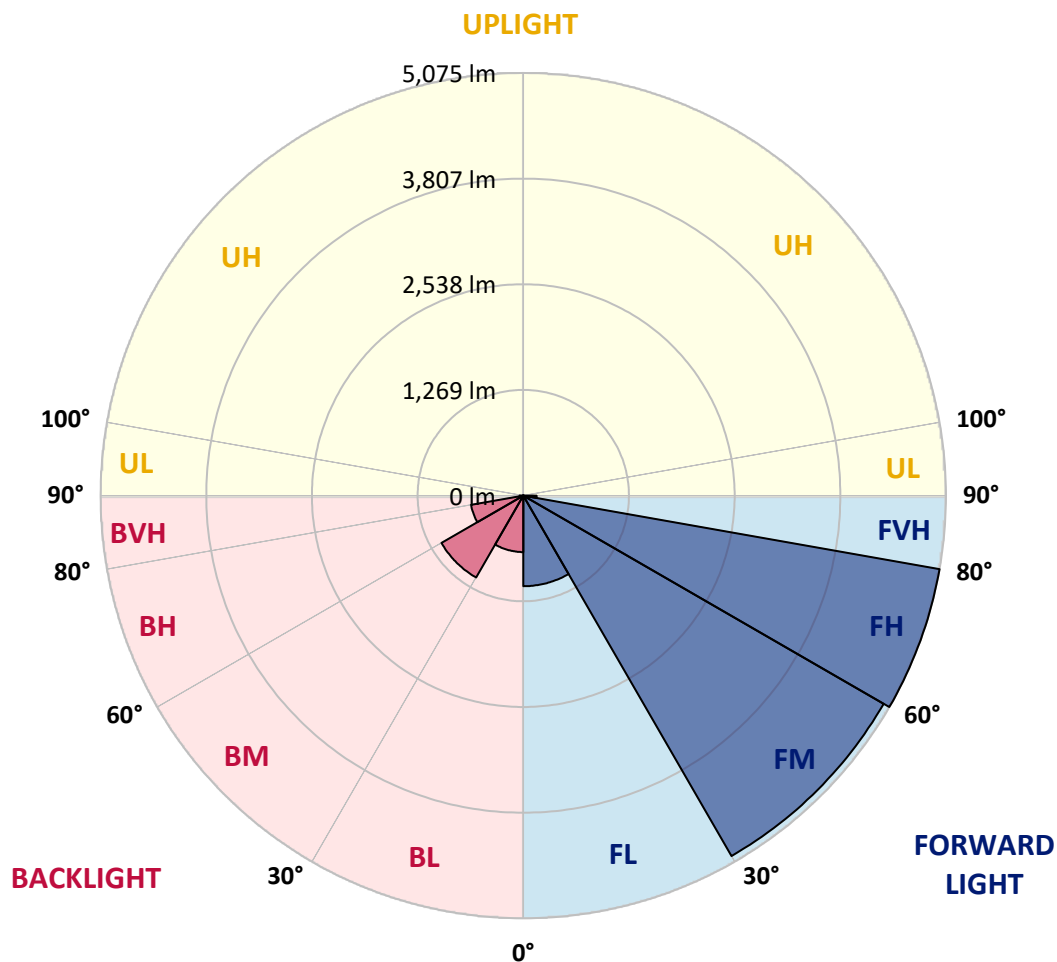
CATALOG NUMBER: GALN-SA3B-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1087.3	7.9			
FM	(30°-60°)	4997.0	36.2			
FH	(60°-80°)	5075.4	36.7			G3/7500
FVH	(80°-90°)	159.4	1.2			G2/225
BL	(0°-30°)	677.8	4.9	B2/1000		
BM	(30°-60°)	1134.6	8.2	B2/2500		
BH	(60°-80°)	636.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	44.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





REPORT NUMBER: P452476

CATALOG NUMBER: GALN-SA3B-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4
2.5°	2380.9	2392.1	2395.1	2402.5	2418.2	2430.9	2443.6	2442.1	2460.0	2467.4	2474.1
5°	2274.9	2277.9	2289.1	2304.0	2331.6	2366.7	2401.0	2401.8	2445.8	2480.9	2498.0
7.5°	2197.3	2207.0	2214.5	2230.2	2259.3	2297.3	2351.8	2356.3	2434.6	2504.0	2540.5
10°	2146.6	2157.8	2166.0	2185.4	2214.5	2257.0	2316.0	2324.2	2426.4	2540.5	2604.7
12.5°	2100.3	2111.5	2119.0	2144.4	2182.4	2234.6	2301.0	2310.7	2429.4	2583.1	2674.9
15°	2128.7	2137.6	2134.7	2142.1	2167.5	2227.2	2307.0	2316.7	2440.6	2624.1	2744.2
17.5°	2254.8	2262.2	2237.6	2209.3	2197.3	2241.4	2325.7	2336.1	2463.0	2666.6	2815.1
20°	2440.6	2460.7	2407.0	2343.6	2286.1	2292.1	2364.5	2375.7	2494.3	2709.2	2887.5
22.5°	2682.3	2697.2	2631.6	2527.1	2421.2	2366.7	2422.7	2429.4	2541.3	2764.4	2966.6
25°	2966.6	2975.5	2884.5	2750.2	2597.3	2494.3	2502.5	2514.4	2618.9	2827.1	3036.7
27.5°	3242.6	3271.0	3165.8	3001.7	2800.2	2628.6	2612.2	2619.6	2703.2	2862.1	3085.2
30°	3570.2	3568.0	3456.8	3266.5	3008.4	2774.8	2715.9	2714.4	2748.7	2879.3	3120.3
32.5°	3831.3	3861.9	3753.0	3545.6	3246.4	2926.3	2787.5	2784.5	2783.8	2909.1	3172.5
35°	4128.3	4132.8	4032.8	3823.9	3503.8	3116.6	2887.5	2872.6	2855.4	2973.3	3243.4
37.5°	4393.9	4414.8	4323.0	4088.8	3756.7	3314.3	3024.8	3015.1	2962.9	3084.5	3356.8
40°	4601.3	4617.0	4561.8	4338.7	4005.9	3527.7	3199.4	3181.5	3118.0	3266.5	3508.3
42.5°	4669.2	4701.3	4723.0	4613.3	4292.4	3780.6	3414.3	3391.9	3343.4	3542.6	3682.9
45°	4674.5	4725.2	4839.4	4844.6	4580.4	4083.5	3665.0	3649.3	3645.6	3896.3	3928.3
47.5°	4634.9	4686.4	4878.2	4981.9	4837.1	4389.4	4026.8	4002.2	4004.4	4333.5	4203.7
50°	4539.4	4600.6	4833.4	5069.9	5037.8	4707.3	4408.8	4400.6	4446.9	4832.6	4489.4
52.5°	4359.6	4433.5	4787.1	5125.1	5187.0	4981.1	4843.1	4820.0	4937.1	5374.3	4802.0
55°	3861.9	3973.1	4617.8	5155.7	5328.8	5243.0	5234.1	5275.8	5431.0	5965.3	5146.0
57.5°	3602.3	3685.8	4249.9	5160.9	5507.9	5547.4	5690.7	5701.1	5972.7	6592.7	5534.7
60°	3460.5	3534.4	4048.5	5126.6	5757.8	5924.2	6157.8	6195.1	6501.7	7272.5	5937.6
62.5°	3336.7	3400.1	3927.6	5008.0	6039.9	6483.1	6762.9	6780.8	7102.3	8023.1	6335.3
65°	3044.9	3117.3	3684.4	4889.3	6283.1	7181.4	7565.7	7544.8	7741.8	8670.7	6584.5
67.5°	2651.7	2743.5	3230.0	4479.7	6403.2	7944.7	8470.0	8443.9	8373.0	9095.2	6656.2
70°	2149.6	2198.8	2648.7	3771.7	5923.5	8345.4	9184.0	9156.4	8764.0	9151.2	6317.4
71°	1849.6	1926.5	2306.3	3350.1	5524.3	8223.0	9275.8	9268.3	8764.7	8996.7	6062.2
72.5°	1443.7	1490.8	1826.5	2595.8	4695.4	7527.6	9049.0	9077.3	8574.4	8567.7	5536.2
75°	913.3	934.1	1146.0	1528.1	2576.4	5331.0	7724.6	7801.5	7613.4	7012.8	4117.1
77.5°	530.5	557.4	686.4	900.6	1113.2	2893.5	5527.3	5610.8	5290.0	3861.2	1685.5
80°	308.9	338.7	452.2	523.0	511.1	1073.7	2814.4	2956.9	2290.6	975.2	473.0
82.5°	171.6	191.8	317.8	318.6	272.3	350.7	885.6	926.7	653.6	393.2	193.2
85°	124.6	141.0	205.2	185.8	130.6	150.7	308.1	323.1	264.1	165.6	62.7
87.5°	44.0	62.7	112.7	89.5	35.8	31.3	88.8	72.4	67.2	46.3	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452476

CATALOG NUMBER: GALN-SA3B-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4	2464.4
2.5°	2477.9	2479.4	2471.9	2458.5	2445.0	2427.9	2408.5	2393.6	2386.8	2386.1	2385.4
5°	2504.7	2508.5	2480.1	2438.3	2392.1	2335.4	2286.9	2231.7	2217.5	2195.1	2201.8
7.5°	2548.0	2545.8	2489.8	2401.0	2292.8	2172.7	2071.2	2012.3	1951.1	1934.0	1934.7
10°	2609.9	2595.8	2489.8	2324.9	2144.4	1966.0	1824.3	1734.7	1686.2	1645.9	1631.0
12.5°	2675.6	2639.8	2465.9	2218.2	1953.3	1734.7	1582.5	1461.7	1430.3	1397.5	1398.2
15°	2738.3	2678.6	2418.9	2068.3	1747.4	1487.8	1340.0	1267.7	1258.0	1261.7	1260.9
17.5°	2795.0	2706.2	2347.3	1901.1	1507.2	1275.9	1197.5	1202.8	1228.9	1247.5	1249.8
20°	2852.4	2722.6	2240.6	1677.3	1280.3	1147.5	1150.5	1191.6	1231.1	1256.5	1260.2
22.5°	2906.9	2730.1	2115.3	1460.9	1116.2	1093.1	1137.1	1181.1	1219.9	1244.5	1248.3
25°	2942.7	2712.9	1937.7	1234.8	1035.6	1073.7	1119.9	1157.2	1190.1	1215.4	1221.4
27.5°	2952.4	2657.7	1717.6	1052.0	998.3	1055.0	1097.5	1125.2	1150.5	1174.4	1178.9
30°	2947.2	2576.4	1475.8	944.6	976.7	1033.4	1066.2	1086.4	1116.9	1135.6	1139.3
32.5°	2939.0	2481.6	1223.6	887.1	958.8	1013.2	1032.6	1050.5	1049.8	1042.3	1047.6
35°	2942.0	2368.2	1019.2	852.8	943.1	998.3	1014.7	992.3	928.2	925.2	922.2
37.5°	2957.6	2256.3	870.7	828.9	934.9	996.1	1005.0	902.1	845.4	819.2	812.5
40°	2997.9	2125.7	773.0	811.0	934.1	1013.2	961.0	856.5	747.6	696.9	693.1
42.5°	3051.6	1997.4	713.3	799.8	943.1	1039.3	943.1	792.4	673.7	643.9	639.4
45°	3131.5	1850.4	680.5	794.6	956.5	1049.0	937.1	745.4	643.9	620.0	620.0
47.5°	3221.8	1710.1	662.6	790.9	973.7	1042.3	884.2	730.5	629.7	632.7	646.9
50°	3311.3	1588.5	649.1	782.7	988.6	1038.6	862.5	729.7	633.5	671.5	696.9
52.5°	3415.0	1502.7	632.7	769.3	988.6	1014.7	855.8	744.6	643.9	655.1	666.3
55°	3540.4	1475.8	611.8	740.2	970.7	955.0	852.1	766.3	651.4	625.3	629.7
57.5°	3706.0	1519.1	591.7	703.6	929.7	893.1	850.6	772.2	634.2	612.6	608.1
60°	3898.5	1604.9	585.7	666.3	873.7	840.1	841.6	755.1	610.3	587.9	591.7
62.5°	4033.5	1656.4	582.0	637.9	812.5	781.9	820.0	734.2	599.9	580.5	584.2
65°	4033.5	1593.7	547.7	594.7	733.4	711.8	793.9	708.1	586.5	564.1	560.3
67.5°	3880.6	1410.9	495.4	529.7	646.1	632.0	757.3	676.7	566.3	549.1	540.2
70°	3482.2	1069.9	429.8	453.6	535.7	548.4	710.3	634.2	532.7	511.8	498.4
71°	3306.8	931.9	402.2	414.8	493.2	511.8	687.9	616.3	517.8	488.0	464.1
72.5°	2968.8	784.9	360.4	365.6	421.6	455.1	640.9	582.0	489.5	446.9	420.1
75°	2255.5	573.0	290.2	287.3	311.9	361.1	542.4	518.6	429.0	371.6	355.9
77.5°	974.4	311.9	217.1	219.4	211.9	273.8	426.8	445.4	367.8	302.2	288.0
80°	295.5	179.8	148.5	151.5	141.8	183.5	300.7	349.2	295.5	235.0	215.6
82.5°	151.5	107.4	101.5	100.0	90.3	103.7	182.1	238.8	211.2	147.0	129.8
85°	65.7	57.5	50.0	48.5	42.5	37.3	64.9	119.4	111.9	82.1	78.3
87.5°	16.4	14.9	9.7	9.0	5.2	0.7	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)