

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: P452461

Luminaire Tested: **GALN-SA3B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13379 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): 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



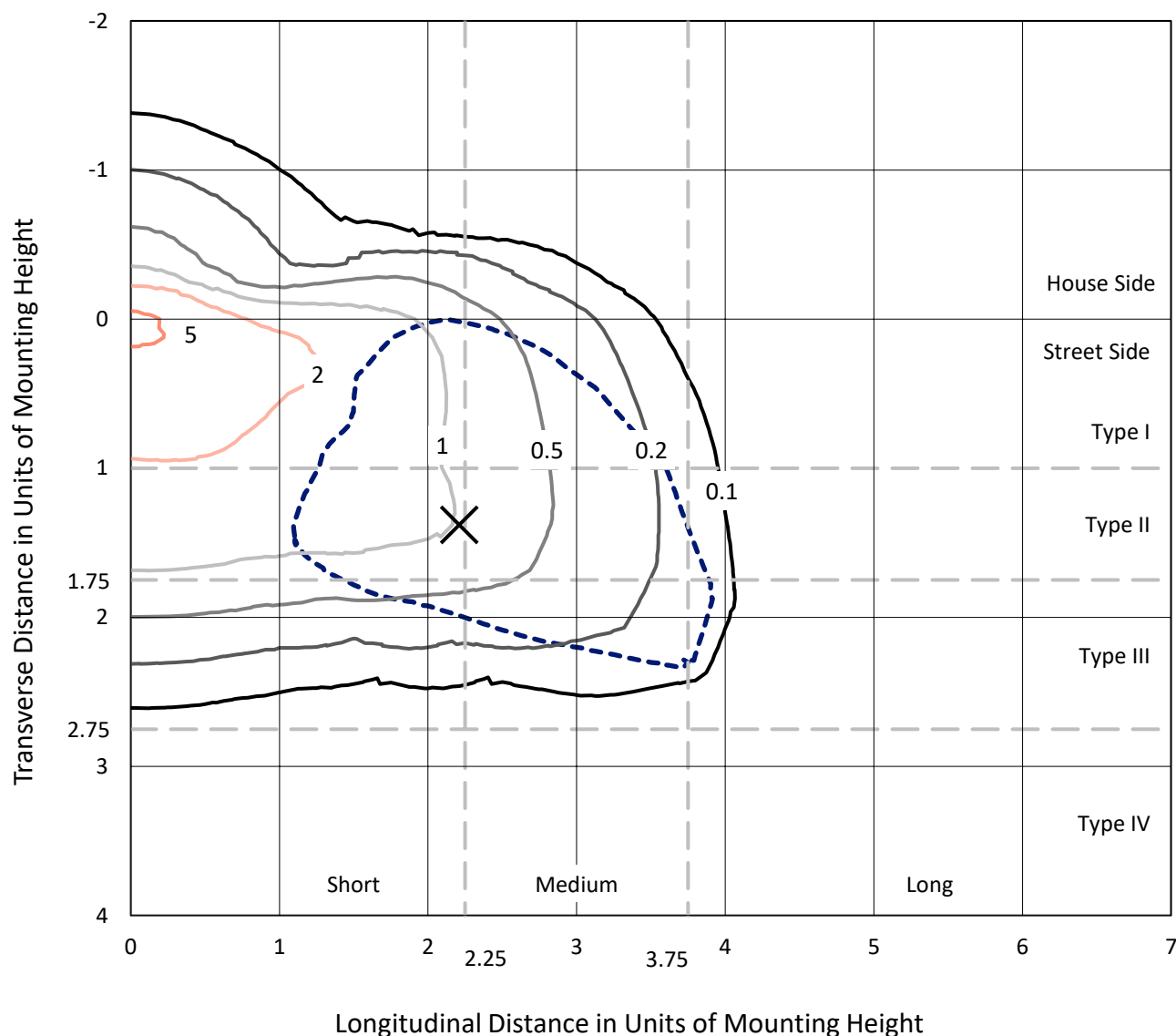
REPORT NUMBER: P452461

CATALOG NUMBER: GALN-SA3B-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

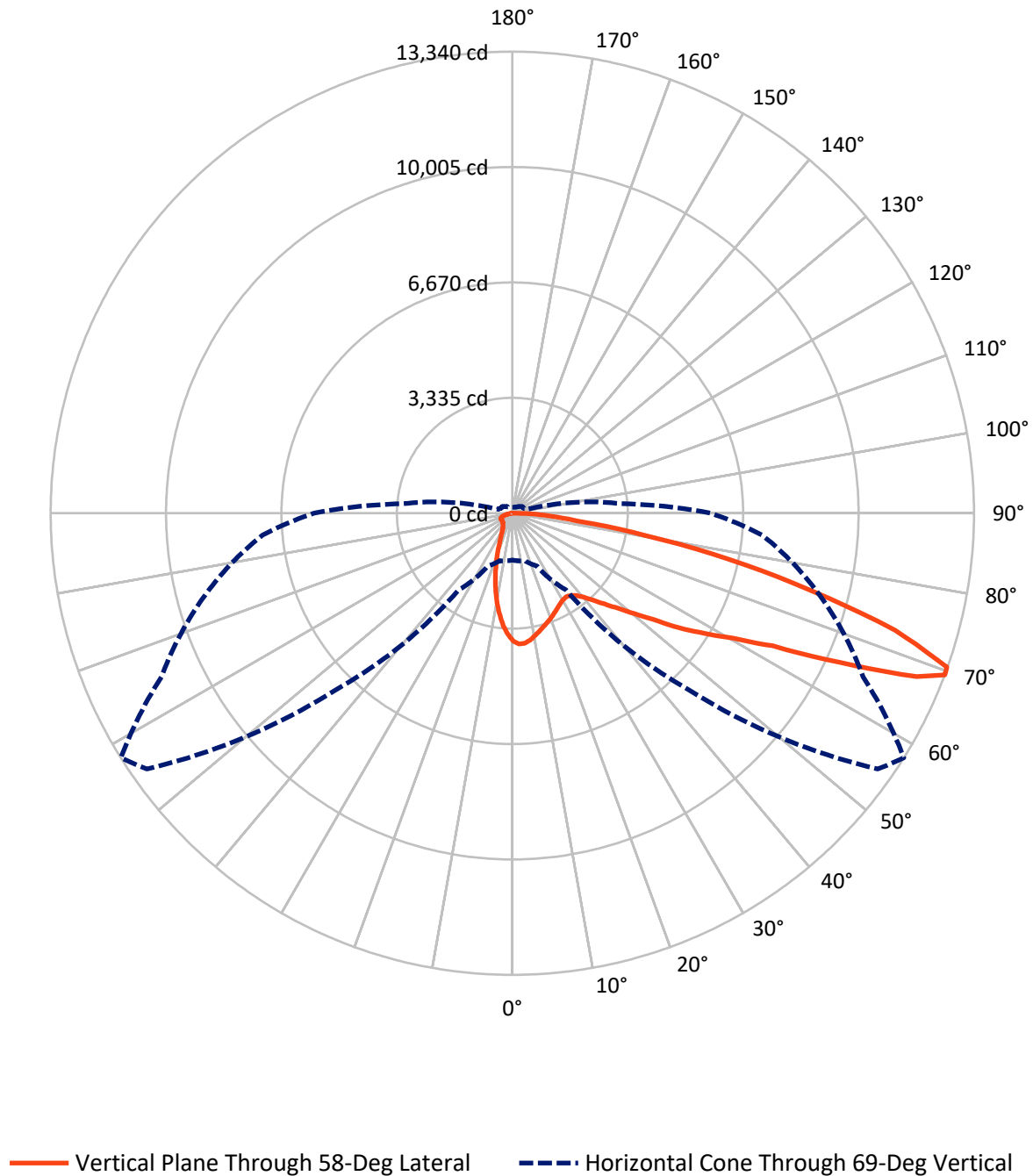


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P452461

CATALOG NUMBER: GALN-SA3B-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P452461

CATALOG NUMBER: GALN-SA3B-830-U-SL3

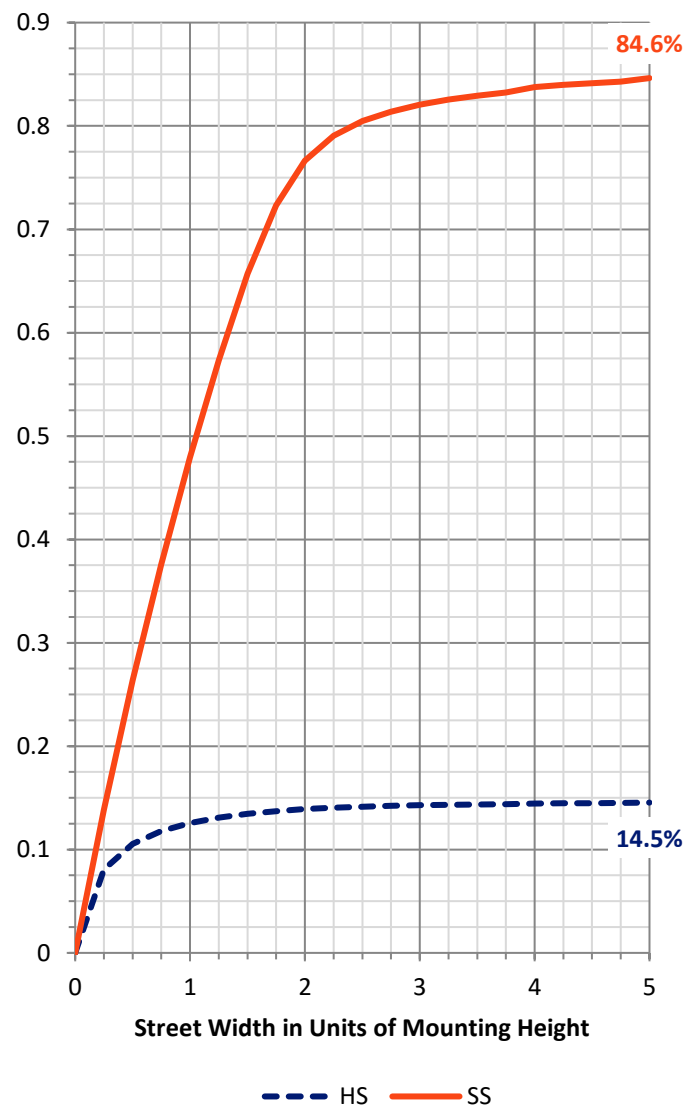
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1960.7	0.0	1960.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11418.3	0.0	11418.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	13379.0	0.0	13379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.0	2.3
10°-20°	689.4	5.2
20°-30°	890.8	6.7
30°-40°	1156.9	8.6
40°-50°	1682.0	12.6
50°-60°	2684.0	20.1
60°-70°	3585.4	26.8
70°-80°	2066.9	15.4
80°-90°	309.6	2.3
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°	13379.0	100.0
0°-180°	13379.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452461

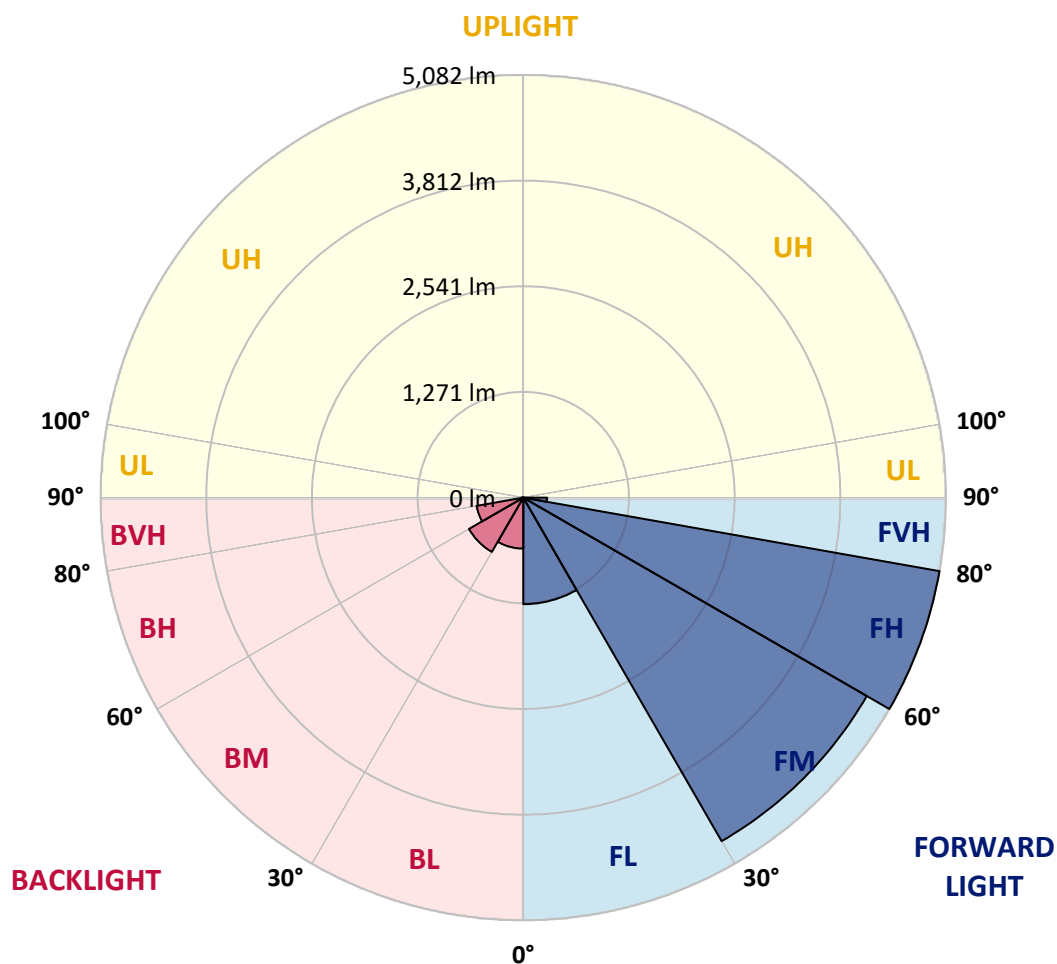
CATALOG NUMBER: GALN-SA3B-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1281.4	9.6			
FM	(30°-60°)	4768.9	35.6			
FH	(60°-80°)	5082.2	38.0			G3/7500
FVH	(80°-90°)	285.9	2.1			G3/500
BL	(0°-30°)	612.8	4.6	B2/1000		
BM	(30°-60°)	754.0	5.6	B1/1000		
BH	(60°-80°)	570.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	23.7	0.2			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 III Short





REPORT NUMBER: P452461

CATALOG NUMBER: GALN-SA3B-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2
2.5°	3834.5	3844.9	3841.9	3838.2	3832.2	3815.8	3788.9	3784.5	3767.3	3730.7	3685.2
5°	3775.5	3784.5	3785.2	3790.4	3797.9	3794.9	3775.5	3773.3	3747.9	3698.7	3622.6
7.5°	3573.3	3585.2	3611.4	3640.5	3666.6	3691.2	3697.2	3700.9	3685.2	3628.5	3527.1
10°	3345.7	3357.7	3369.6	3412.9	3477.1	3538.2	3589.0	3595.7	3599.4	3547.2	3423.3
12.5°	3093.5	3118.2	3143.5	3207.7	3293.5	3389.8	3479.3	3493.5	3518.8	3479.3	3333.8
15°	2879.4	2904.8	2941.3	2998.8	3102.5	3241.3	3367.4	3390.5	3440.5	3420.4	3250.2
17.5°	2730.9	2739.9	2765.2	2830.9	2942.8	3089.1	3257.7	3304.0	3383.8	3378.6	3178.6
20°	2613.8	2625.0	2640.6	2680.9	2797.3	2951.8	3155.5	3215.2	3323.4	3341.3	3107.7
22.5°	2564.5	2572.7	2570.5	2592.1	2671.2	2826.4	3051.8	3122.6	3269.6	3315.9	3042.1
25°	2567.5	2575.0	2563.8	2558.5	2605.6	2716.0	2943.6	3033.8	3226.4	3298.7	2982.4
27.5°	2617.5	2622.7	2601.8	2580.9	2584.7	2647.3	2854.0	2954.0	3189.8	3306.2	2932.4
30°	2684.6	2694.3	2680.9	2655.5	2627.9	2630.9	2796.6	2895.1	3172.6	3332.3	2908.5
32.5°	2771.2	2780.2	2774.2	2754.0	2718.2	2678.7	2782.4	2873.4	3174.1	3385.3	2903.3
35°	2862.2	2880.1	2889.8	2888.3	2859.2	2790.6	2838.4	2913.7	3209.9	3474.1	2933.9
37.5°	2965.2	2980.1	3021.9	3048.8	3021.9	2942.1	2964.5	3016.7	3289.0	3602.4	3001.0
40°	3065.2	3087.6	3148.8	3232.3	3221.9	3151.7	3157.0	3191.3	3428.6	3793.4	3132.3
42.5°	3169.6	3196.5	3303.2	3427.1	3451.7	3397.2	3411.4	3442.0	3627.0	4058.3	3357.7
45°	3304.0	3336.0	3467.4	3621.8	3718.8	3685.2	3725.5	3740.4	3892.7	4403.0	3654.6
47.5°	3477.1	3514.4	3676.3	3868.8	4006.1	4036.7	4106.8	4097.9	4221.7	4811.2	4039.7
50°	3768.8	3789.7	3942.7	4138.9	4327.7	4465.7	4541.8	4556.0	4629.9	5208.1	4470.2
52.5°	4115.8	4134.4	4244.8	4416.5	4653.0	4945.5	5133.5	5087.2	5105.2	5691.6	4973.8
55°	4506.0	4537.3	4607.5	4721.6	5028.3	5458.8	5836.4	5847.6	5649.1	6154.2	5456.6
57.5°	4808.2	4861.2	4981.3	5144.0	5532.7	6029.6	6537.0	6544.5	6290.8	6648.2	5989.3
60°	4656.0	4718.7	4993.2	5389.4	6194.5	7025.7	7374.2	7331.7	6915.3	7210.8	6639.2
62.5°	3999.4	4010.6	4409.7	5029.0	6398.2	8358.4	8620.3	8440.4	7748.8	7924.1	7299.6
65°	2588.4	2661.5	2977.9	3845.7	5728.9	9097.8	10803.5	10387.9	8917.2	8733.7	7852.5
67.5°	1634.1	1615.4	1746.7	2195.9	3940.4	8446.4	12666.6	12601.0	10445.4	9244.8	7720.4
69°	1355.0	1375.9	1420.7	1683.3	2711.5	7211.5	12886.8	13340.4	11186.3	9204.5	7240.6
70°	1228.9	1238.6	1285.6	1492.3	2092.2	6040.1	12525.6	13320.3	11477.3	9035.9	6892.9
72.5°	975.2	974.5	1055.1	1241.6	1563.9	3448.0	10284.9	11564.6	11152.0	8250.9	5695.4
75°	740.9	752.9	841.7	1050.6	1440.8	1884.0	7177.2	8906.0	8906.8	6516.9	3553.9
77.5°	534.2	541.7	645.4	881.9	1357.2	1527.4	4780.6	6387.8	6005.0	2986.1	1117.0
80°	349.9	354.4	433.5	698.4	1223.7	1440.8	2834.6	3909.8	2832.4	792.4	369.3
82.5°	191.8	214.1	264.9	452.2	981.9	1331.1	1722.9	1978.8	1062.5	352.9	192.5
85°	96.3	102.2	149.2	264.1	641.7	1101.3	1199.8	1134.9	548.4	175.3	100.0
87.5°	28.4	35.8	61.9	102.2	260.4	573.8	667.8	599.2	211.2	63.4	20.9
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: P452461

CATALOG NUMBER: GALN-SA3B-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2	3697.2
2.5°	3666.6	3653.1	3593.5	3539.7	3490.5	3438.3	3394.2	3355.4	3359.2	3359.9	3320.4
5°	3583.0	3552.4	3439.0	3333.1	3243.5	3130.1	3033.1	2970.4	2939.1	2897.3	2912.2
7.5°	3469.6	3410.7	3253.2	3077.1	2912.2	2765.2	2605.6	2495.9	2425.7	2357.8	2366.8
10°	3352.5	3257.7	3028.6	2795.8	2582.4	2347.4	2143.7	1969.1	1839.3	1790.8	1758.7
12.5°	3232.3	3107.7	2816.7	2507.1	2212.3	1931.0	1642.3	1455.0	1311.7	1235.6	1245.3
15°	3122.6	2971.2	2595.9	2218.3	1835.5	1500.5	1212.5	1034.2	934.2	913.3	925.2
17.5°	3021.2	2822.7	2389.2	1937.8	1490.8	1125.2	911.0	810.3	770.0	758.8	758.1
20°	2916.7	2696.6	2157.1	1637.8	1161.8	872.2	747.6	700.6	693.2	697.7	698.4
22.5°	2810.7	2540.6	1918.4	1340.1	925.2	713.3	653.6	640.9	646.9	657.4	658.9
25°	2713.0	2403.3	1688.5	1078.9	738.7	626.8	597.7	597.7	611.1	626.8	627.5
27.5°	2632.4	2270.5	1459.5	856.6	618.6	564.1	554.4	559.6	578.3	590.2	591.0
30°	2566.0	2146.7	1243.1	686.5	543.9	514.1	511.9	520.8	534.2	545.4	546.2
32.5°	2516.0	2037.7	1040.9	576.8	492.5	476.0	475.3	482.0	489.5	492.5	495.4
35°	2496.6	1947.5	855.8	507.4	458.1	447.7	447.7	446.9	449.9	451.4	452.9
37.5°	2512.3	1878.1	712.6	462.6	432.8	425.3	420.8	416.4	414.9	414.9	415.6
40°	2578.7	1841.5	605.9	433.5	414.9	403.7	395.5	390.2	385.0	386.5	388.0
42.5°	2719.7	1848.2	533.5	414.1	399.2	383.5	371.6	365.6	361.9	366.4	365.6
45°	2944.3	1915.4	487.2	400.7	383.5	363.4	352.2	346.2	346.2	352.9	355.2
47.5°	3258.4	2043.7	462.6	390.2	371.6	347.7	336.5	332.0	333.5	344.7	345.5
50°	3642.0	2266.8	458.1	385.0	365.6	336.5	323.8	319.4	323.1	335.0	336.5
52.5°	4065.0	2554.1	479.8	385.8	360.4	329.8	313.4	306.7	310.4	320.1	323.1
55°	4566.4	2913.7	535.7	388.7	352.9	326.1	305.9	291.0	295.5	302.2	302.9
57.5°	5078.3	3367.4	634.2	389.5	347.0	319.4	293.2	273.8	273.8	278.3	280.6
60°	5703.6	3861.3	764.1	390.2	347.7	309.7	276.1	254.4	251.5	253.7	254.4
62.5°	6324.4	4274.7	785.7	388.0	355.2	300.0	257.4	235.0	229.8	229.1	227.6
65°	6598.2	4197.8	643.9	377.6	363.4	294.0	242.5	216.4	207.4	204.4	204.4
67.5°	6152.0	3550.9	484.3	363.4	358.2	288.0	228.3	200.7	190.3	184.3	184.3
69°	5732.7	3158.5	435.0	353.7	344.7	278.3	219.4	192.5	179.8	173.1	170.9
70°	5408.8	2888.3	414.1	345.5	332.0	267.1	212.7	186.5	172.4	164.9	163.4
72.5°	4316.5	2266.1	362.6	314.1	282.8	224.6	188.8	167.9	154.5	146.2	144.0
75°	2487.7	1228.2	300.7	273.1	227.6	174.6	159.7	146.2	135.8	128.3	126.1
77.5°	765.5	474.6	217.9	215.6	167.1	135.1	127.6	122.4	114.9	106.7	105.2
80°	322.3	241.8	147.7	145.5	111.2	94.0	91.8	91.0	88.0	81.3	79.1
82.5°	176.8	136.5	103.0	89.5	67.2	54.5	56.7	57.5	55.2	48.5	44.0
85°	86.6	74.6	50.0	40.3	30.6	19.4	18.7	22.4	20.9	14.9	16.4
87.5°	17.2	20.9	13.4	6.0	3.0	0.0	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)