

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: P454559

Luminaire Tested: **GALN-SA5C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22399 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 269
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

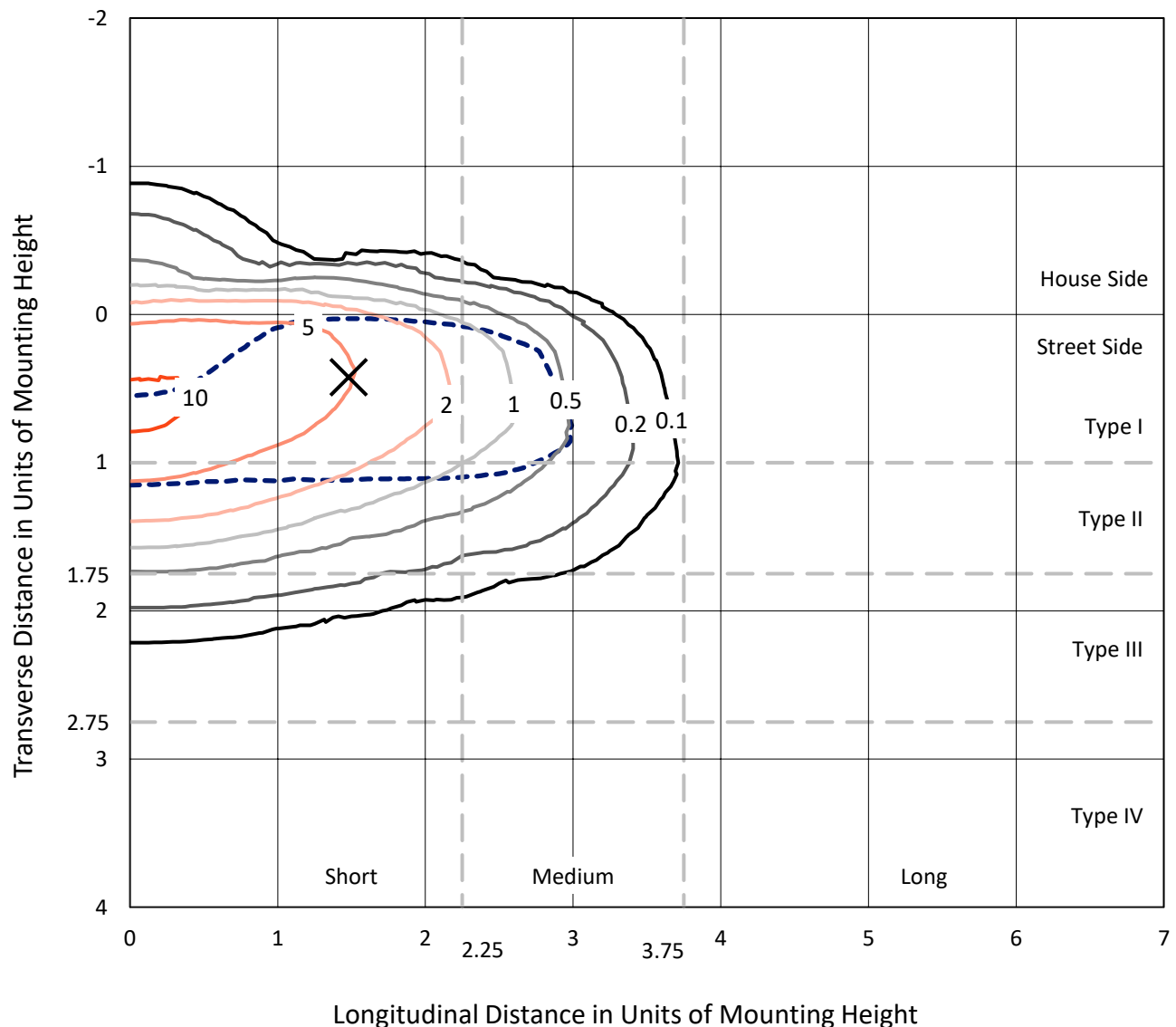


REPORT NUMBER: P454559

CATALOG NUMBER: GALN-SA5C-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

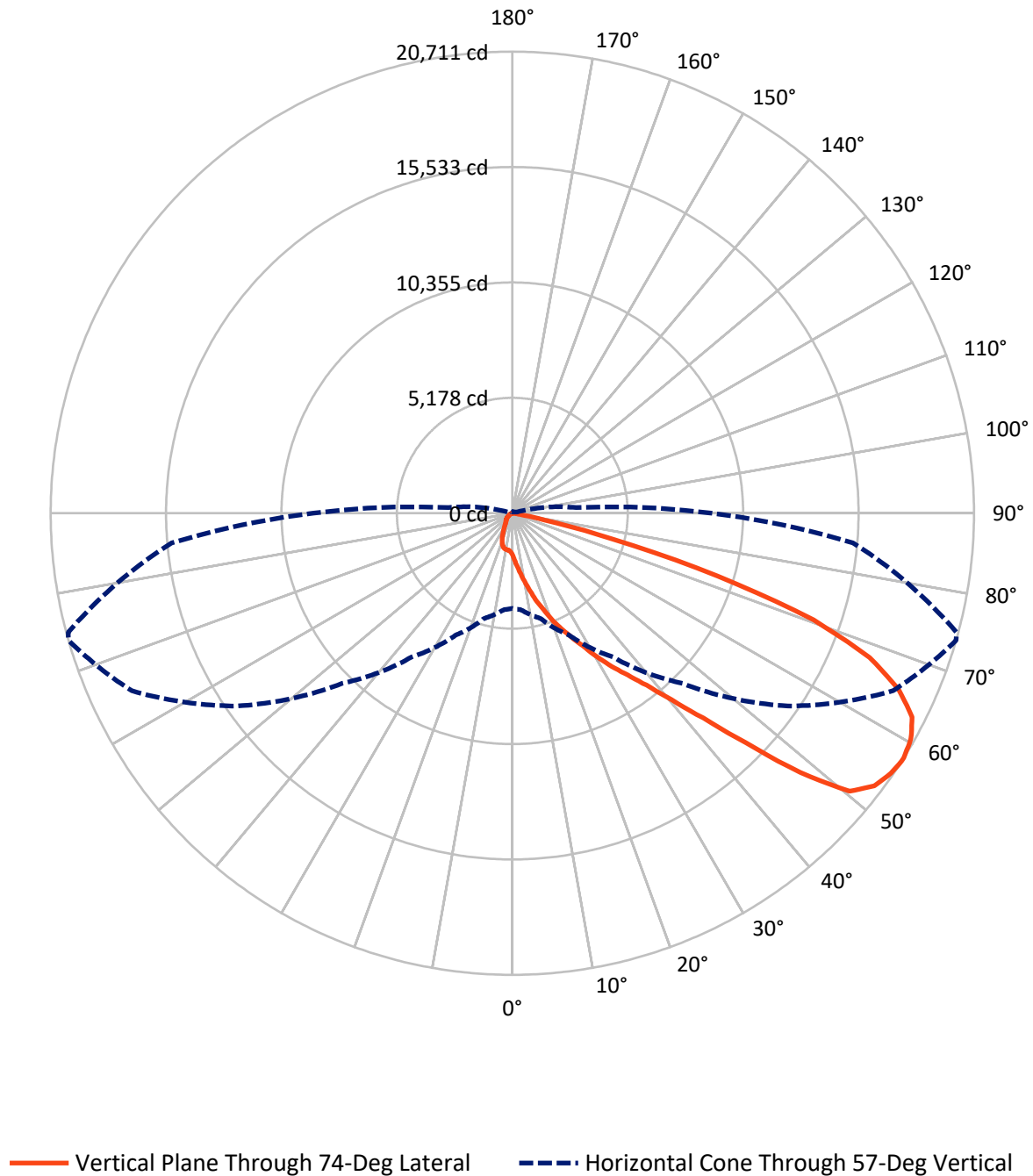


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

REPORT NUMBER: P454559

CATALOG NUMBER: GALN-SA5C-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454559

CATALOG NUMBER: GALN-SA5C-830-U-T2R-HSS

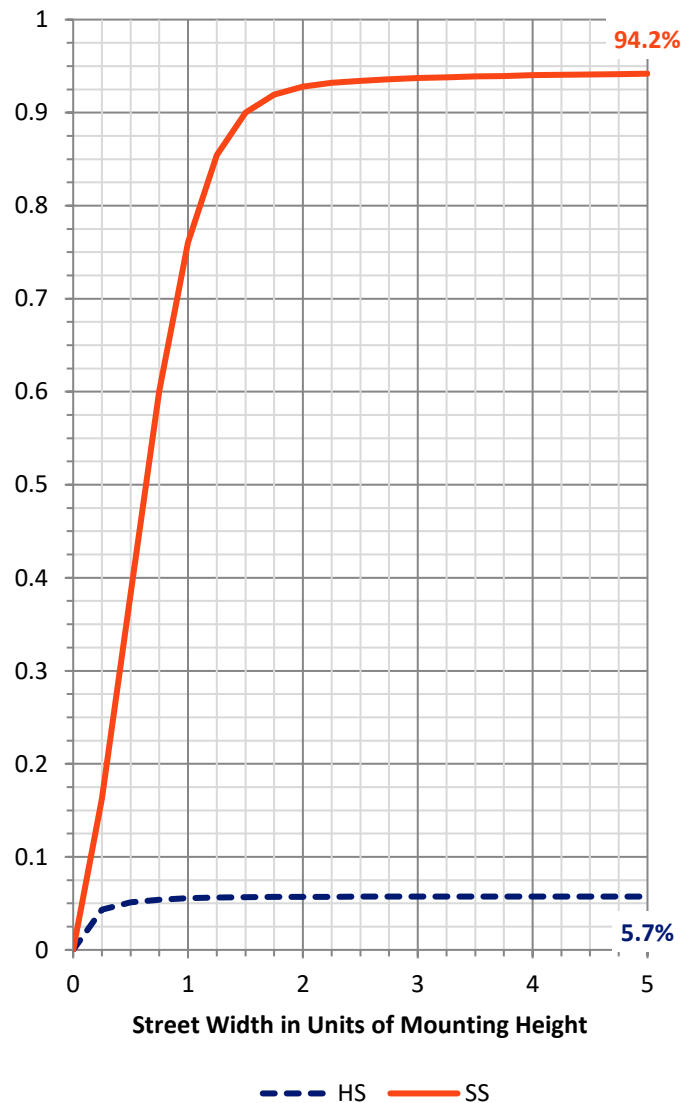
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.9	0.0	1291.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	21107.1	0.0	21107.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	22399.0	0.0	22399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	1.0
10°-20°	892.5	4.0
20°-30°	1909.7	8.5
30°-40°	3510.0	15.7
40°-50°	5380.8	24.0
50°-60°	5692.2	25.4
60°-70°	3717.1	16.6
70°-80°	1015.7	4.5
80°-90°	54.7	0.2
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°	22399.0	100.0
0°-180°	22399.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454559

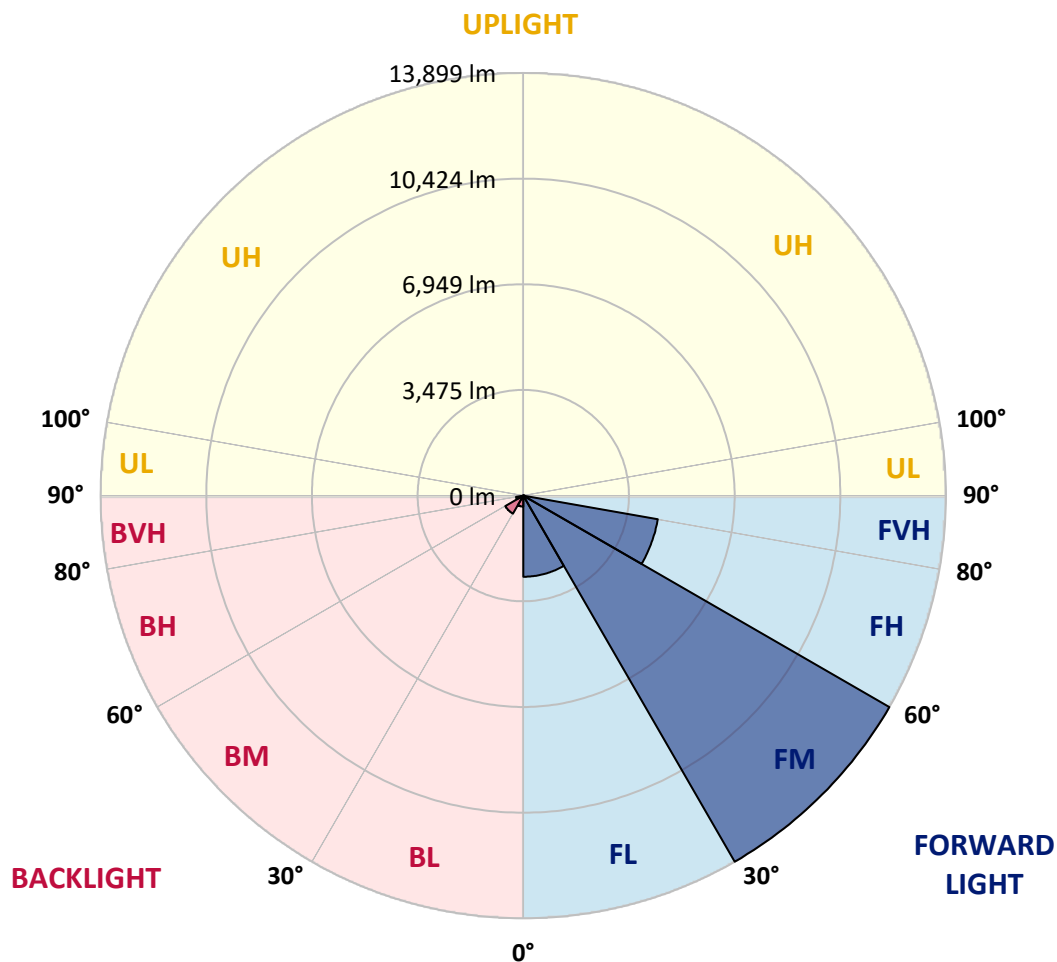
CATALOG NUMBER: GALN-SA5C-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2667.7	11.9			
FM	(30°-60°)	13899.0	62.1			
FH	(60°-80°)	4490.3	20.0			G2/5000
FVH	(80°-90°)	50.2	0.2			G1/100
BL	(0°-30°)	360.9	1.6	B1/500		
BM	(30°-60°)	684.0	3.1	B1/1000		
BH	(60°-80°)	242.5	1.1	B1/500		G1/500
BVH	(80°-90°)	4.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P454559

CATALOG NUMBER: GALN-SA5C-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9
2.5°	2745.0	2720.3	2670.8	2653.8	2581.1	2468.2	2369.2	2236.2	2131.1	2120.2	1993.4
5°	3676.0	3620.3	3597.1	3485.8	3311.0	3147.1	2865.6	2652.2	2406.3	2387.8	2132.6
7.5°	4573.0	4495.6	4472.4	4367.3	4163.1	3904.9	3539.9	3151.7	2762.0	2726.5	2319.7
10°	5222.5	5233.3	5191.6	5122.0	4956.5	4693.6	4243.6	3713.1	3157.9	3113.1	2530.1
12.5°	5688.0	5686.4	5694.2	5692.6	5604.5	5405.0	4931.7	4320.9	3594.0	3505.9	2771.3
15°	5991.1	5995.7	6018.9	6099.3	6108.6	5984.9	5590.5	4902.4	4099.7	3989.9	3032.7
17.5°	6297.3	6329.8	6366.9	6442.7	6510.7	6461.2	6182.8	5508.6	4557.5	4475.5	3312.6
20°	6803.0	6847.8	6826.2	6872.6	6908.2	6912.8	6697.8	6068.4	5112.7	4975.0	3632.7
22.5°	7611.8	7610.3	7554.6	7471.1	7401.5	7398.4	7203.5	6643.7	5616.8	5483.8	3954.4
25°	8634.0	8638.7	8530.4	8292.3	8119.0	7907.2	7682.9	7147.9	6156.6	5992.6	4293.0
27.5°	9806.3	9776.9	9613.0	9285.1	8941.8	8579.9	8256.7	7734.0	6728.8	6592.7	4681.2
30°	10859.4	10848.6	10656.8	10256.3	9804.7	9441.3	8972.7	8468.6	7469.5	7302.5	5115.8
32.5°	11839.9	11855.4	11589.4	11174.9	10738.8	10319.7	9824.8	9170.7	8196.4	7959.8	5589.0
35°	12605.4	12620.9	12345.6	12000.7	11552.2	11204.3	10732.6	9919.2	8913.9	8714.4	6133.4
37.5°	13013.7	13033.8	12874.5	12614.7	12334.8	12160.0	11720.8	10882.6	9786.2	9665.5	6776.7
40°	13091.0	13114.2	13044.6	12975.0	12959.5	13084.8	12956.5	12017.7	10995.5	10806.8	7735.5
42.5°	12859.0	12890.0	12920.9	13075.5	13391.0	13850.3	14297.3	13558.0	12552.8	12299.2	8907.8
45°	12249.7	12246.6	12368.8	12769.3	13476.1	14456.5	15698.4	15486.5	14674.6	14373.0	10564.0
47.5°	11207.4	11191.9	11456.4	12027.0	13128.1	14567.9	16841.2	17827.9	17382.5	17104.1	12344.0
50°	9619.1	9694.9	10110.9	10907.4	12263.6	14230.8	17193.8	19363.5	19604.8	19309.4	13782.3
52.5°	7758.7	7755.6	8408.2	9489.2	10983.1	13488.4	16947.9	19641.9	20327.0	20101.2	14490.6
55°	5742.1	5782.3	6461.2	7551.5	9320.7	12133.7	16145.3	19355.8	20602.3	20443.0	14957.6
57°	4271.4	4342.5	4886.9	6040.6	7873.2	10792.9	15076.7	18843.9	20710.5	20623.9	15345.8
57.5°	3986.8	3989.9	4520.4	5568.9	7449.4	10277.9	14770.5	18630.5	20707.4	20659.5	15409.2
60°	2454.3	2531.6	2898.1	3764.1	5452.9	8021.6	12718.3	17404.1	20546.6	20616.2	15679.8
62.5°	1469.2	1501.6	1739.8	2268.7	3515.2	5855.0	10407.8	15834.5	20127.5	20339.4	15661.3
65°	944.9	952.6	1060.9	1373.3	2197.6	3957.5	8020.1	13760.6	19043.4	19433.1	15048.9
67.5°	729.9	742.3	785.6	901.6	1274.3	2465.1	5672.5	11547.6	17289.7	17792.3	13564.2
70°	648.0	654.2	669.6	706.7	842.8	1391.8	3529.1	9020.7	14337.5	14479.7	10615.1
72.5°	528.9	545.9	593.9	606.2	668.1	869.1	1964.0	6054.5	9633.1	9668.6	5938.5
75°	409.8	412.9	484.1	519.6	562.9	598.5	876.9	3052.8	4627.1	4379.6	2288.8
77.5°	306.2	320.1	352.6	397.4	459.3	428.4	392.8	1150.6	1436.7	1410.4	665.0
80°	196.4	204.1	245.9	298.5	357.2	279.9	221.1	337.1	315.5	324.8	159.3
82.5°	99.0	100.5	157.7	242.8	227.3	140.7	139.2	137.6	117.5	116.0	74.2
85°	10.8	23.2	102.1	139.2	102.1	46.4	65.0	63.4	61.9	63.4	43.3
87.5°	1.5	1.5	17.0	20.1	13.9	15.5	18.6	20.1	24.7	23.2	18.6
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: P454559

CATALOG NUMBER: GALN-SA5C-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9	1875.9
2.5°	1931.6	1869.7	1755.3	1645.5	1563.5	1510.9	1442.9	1418.1	1382.6	1377.9	1360.9
5°	2015.1	1897.5	1698.0	1540.3	1413.5	1317.6	1234.1	1164.5	1108.8	1096.5	1102.6
7.5°	2134.2	1959.4	1681.0	1466.1	1289.8	1125.8	992.8	910.9	852.1	830.5	833.6
10°	2268.7	2041.4	1677.9	1387.2	1118.1	917.1	771.7	699.0	665.0	652.6	638.7
12.5°	2428.0	2135.7	1670.2	1265.0	929.4	731.5	627.9	584.6	552.1	542.8	542.8
15°	2607.4	2236.2	1633.1	1113.5	754.7	604.7	535.1	501.1	490.2	481.0	481.0
17.5°	2794.5	2335.2	1555.8	926.3	626.3	518.1	474.8	454.7	439.2	428.4	428.4
20°	3007.9	2432.6	1432.0	760.9	528.9	462.4	428.4	405.2	392.8	383.5	380.4
22.5°	3210.5	2511.5	1274.3	624.8	460.9	416.0	385.1	360.3	348.0	343.3	343.3
25°	3420.8	2559.4	1084.1	516.5	420.6	377.3	343.3	323.2	312.4	309.3	307.8
27.5°	3625.0	2587.3	917.1	451.6	383.5	341.8	309.3	293.8	283.0	279.9	281.5
30°	3872.4	2591.9	754.7	405.2	351.1	307.8	278.4	264.4	258.3	255.2	253.6
32.5°	4122.9	2585.7	634.1	377.3	320.1	278.4	253.6	242.8	238.2	233.5	233.5
35°	4404.4	2553.2	539.7	349.5	290.7	253.6	232.0	222.7	216.5	211.9	210.3
37.5°	4753.9	2536.2	485.6	318.6	264.4	230.4	210.3	201.0	196.4	190.2	188.7
40°	5304.4	2612.0	468.6	290.7	238.2	208.8	190.2	179.4	173.2	167.0	165.5
42.5°	5991.1	2745.0	440.7	262.9	215.0	188.7	170.1	157.7	146.9	139.2	136.1
45°	6880.3	2919.8	397.4	233.5	194.9	167.0	150.0	134.5	120.6	114.4	112.9
47.5°	7812.8	3088.3	358.8	210.3	173.2	148.5	129.9	112.9	100.5	95.9	94.3
50°	8385.0	3122.4	334.0	184.0	151.6	128.4	109.8	94.3	86.6	82.0	82.0
52.5°	8646.4	3068.2	300.0	160.8	131.5	112.9	94.3	82.0	77.3	74.2	72.7
55°	8828.9	2984.7	255.2	139.2	112.9	95.9	83.5	74.2	68.0	65.0	63.4
57°	8935.6	2871.8	221.1	122.2	97.4	83.5	74.2	66.5	60.3	54.1	54.1
57.5°	8940.2	2828.5	211.9	120.6	92.8	80.4	72.7	65.0	57.2	51.0	49.5
60°	8802.6	2531.6	170.1	102.1	74.2	68.0	60.3	51.0	40.2	34.0	32.5
62.5°	8360.3	2154.3	140.7	86.6	60.3	52.6	43.3	38.7	27.8	20.1	20.1
65°	7690.7	1747.5	120.6	69.6	49.5	38.7	29.4	27.8	17.0	9.3	7.7
67.5°	6722.6	1360.9	102.1	57.2	41.8	27.8	20.1	18.6	9.3	3.1	0.0
70°	5122.0	927.9	85.1	46.4	30.9	20.1	13.9	10.8	6.2	1.5	0.0
72.5°	2952.2	510.3	71.1	35.6	23.2	15.5	10.8	6.2	6.2	0.0	0.0
75°	1054.7	219.6	54.1	26.3	18.6	12.4	7.7	3.1	4.6	1.5	0.0
77.5°	335.6	117.5	35.6	20.1	15.5	9.3	6.2	3.1	3.1	1.5	0.0
80°	99.0	61.9	21.7	17.0	10.8	7.7	4.6	1.5	3.1	1.5	0.0
82.5°	54.1	30.9	17.0	12.4	10.8	6.2	4.6	1.5	1.5	1.5	0.0
85°	27.8	18.6	13.9	12.4	10.8	6.2	4.6	1.5	0.0	1.5	1.5
87.5°	15.5	13.9	13.9	12.4	10.8	7.7	4.6	1.5	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)