

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: P454543

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22922 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

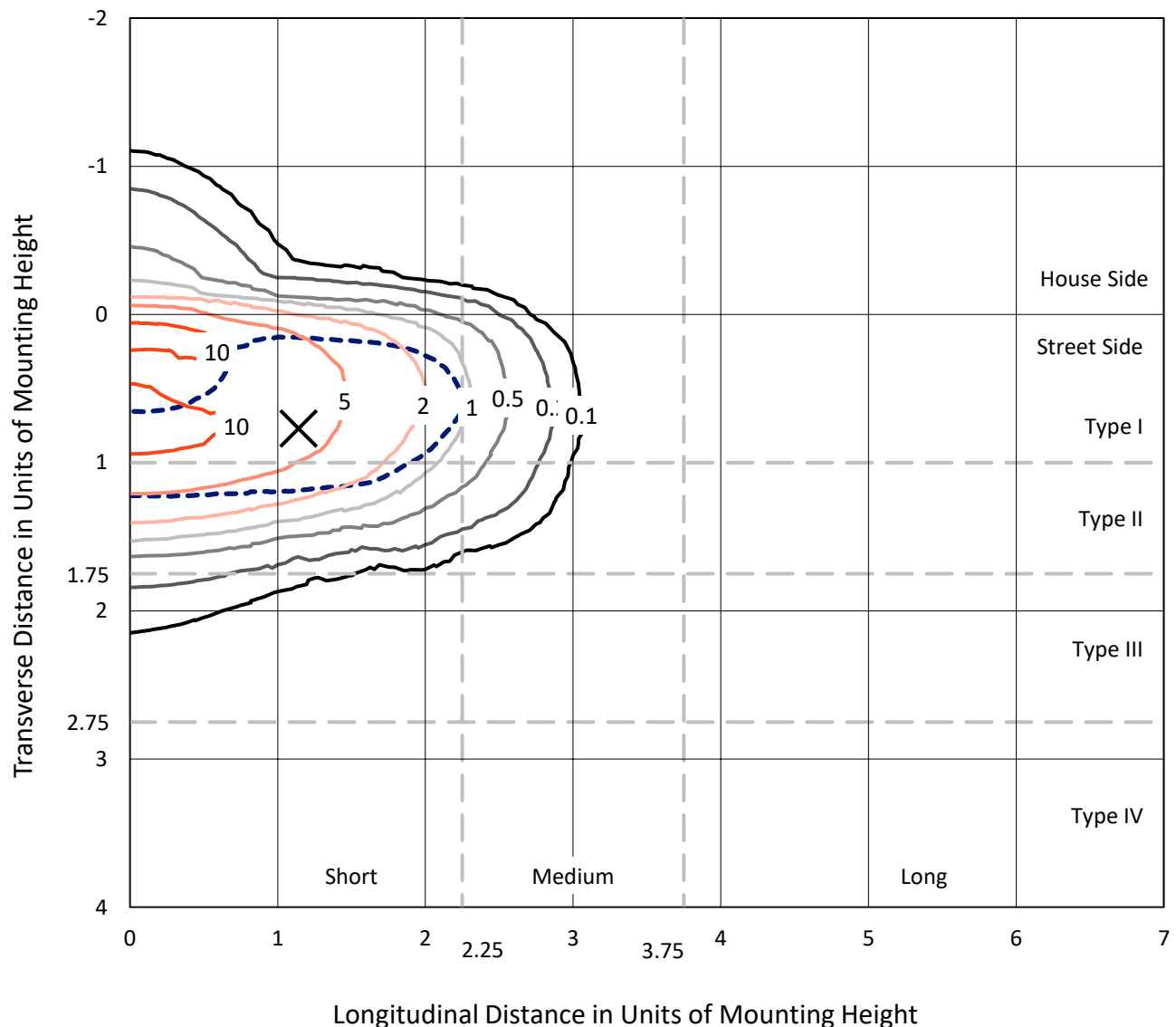
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454543
 CATALOG NUMBER: GALN-SA5C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

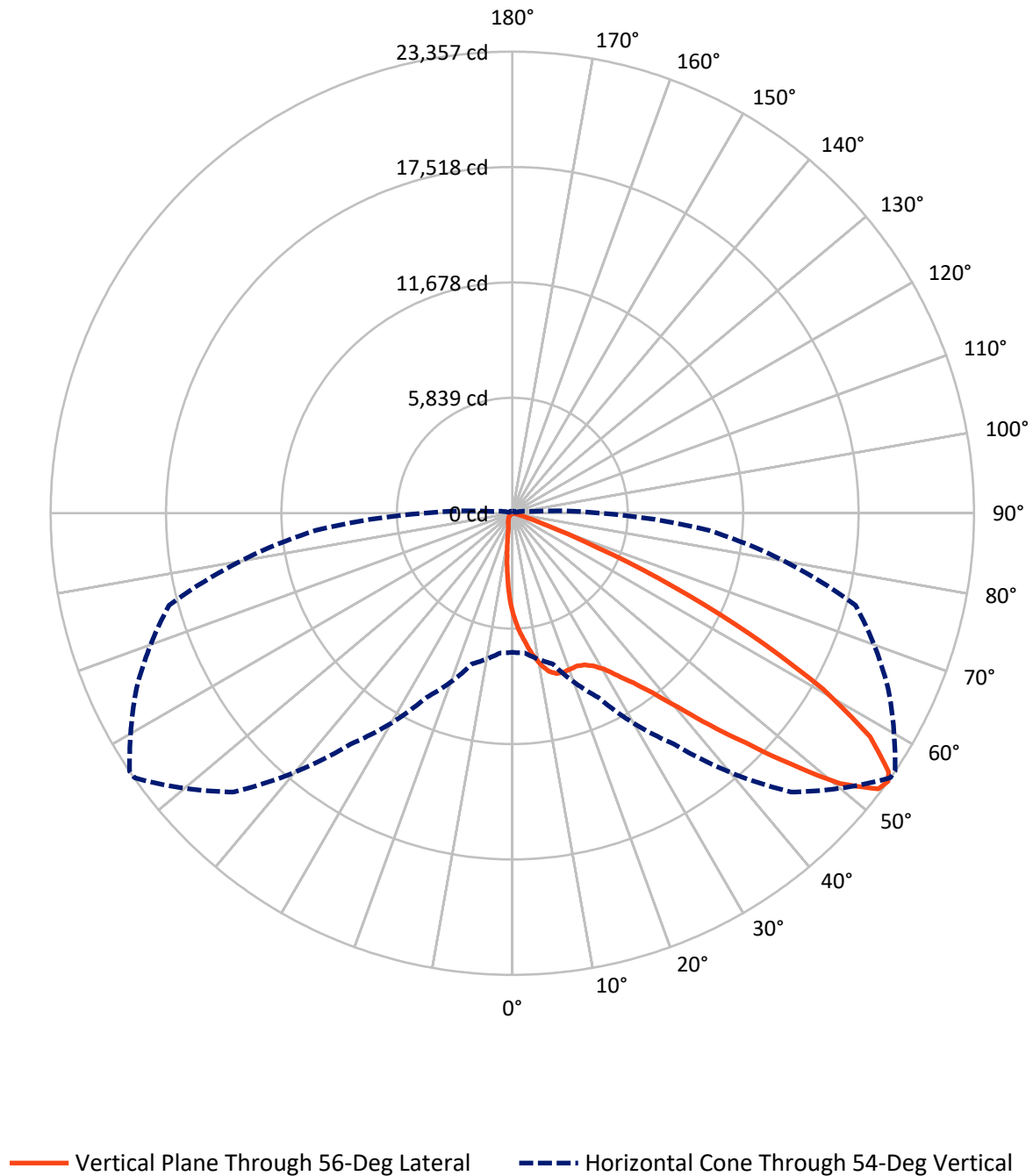
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

REPORT NUMBER: P454543
CATALOG NUMBER: GALN-SA5C-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454543

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

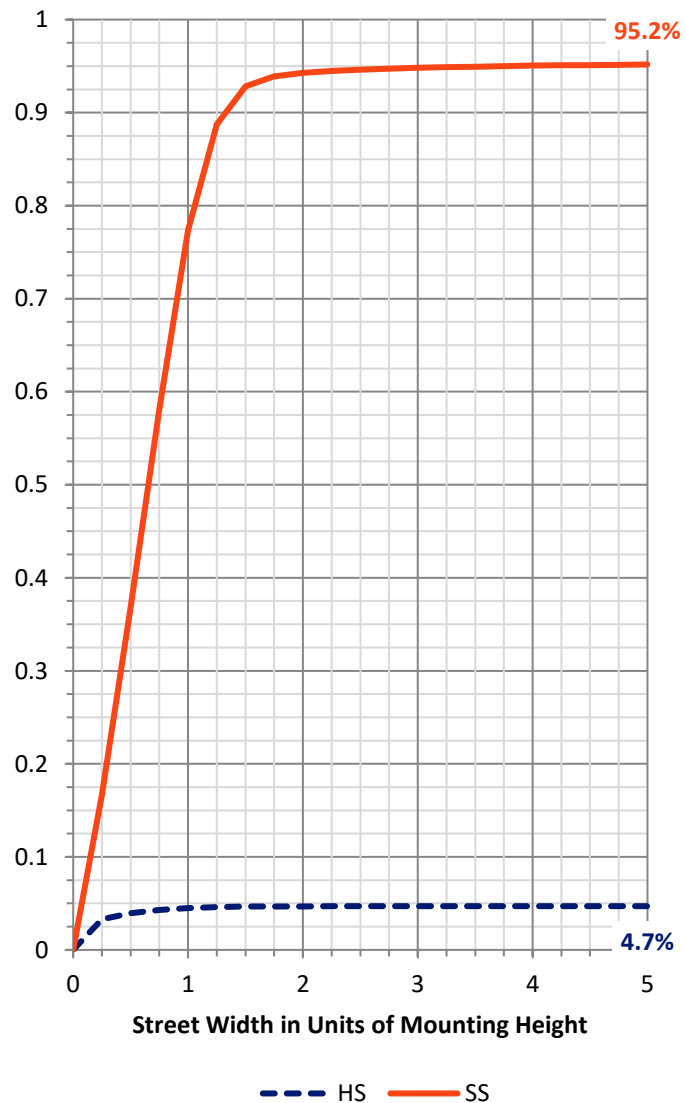
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1083.9	0.0	1083.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	21838.1	0.0	21838.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	22922.0	0.0	22922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.0	2.0
10°-20°	1216.5	5.3
20°-30°	2106.9	9.2
30°-40°	3636.9	15.9
40°-50°	6190.2	27.0
50°-60°	6125.9	26.7
60°-70°	2796.0	12.2
70°-80°	359.1	1.6
80°-90°	40.5	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°	22922.0	100.0
0°-180°	22922.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454543

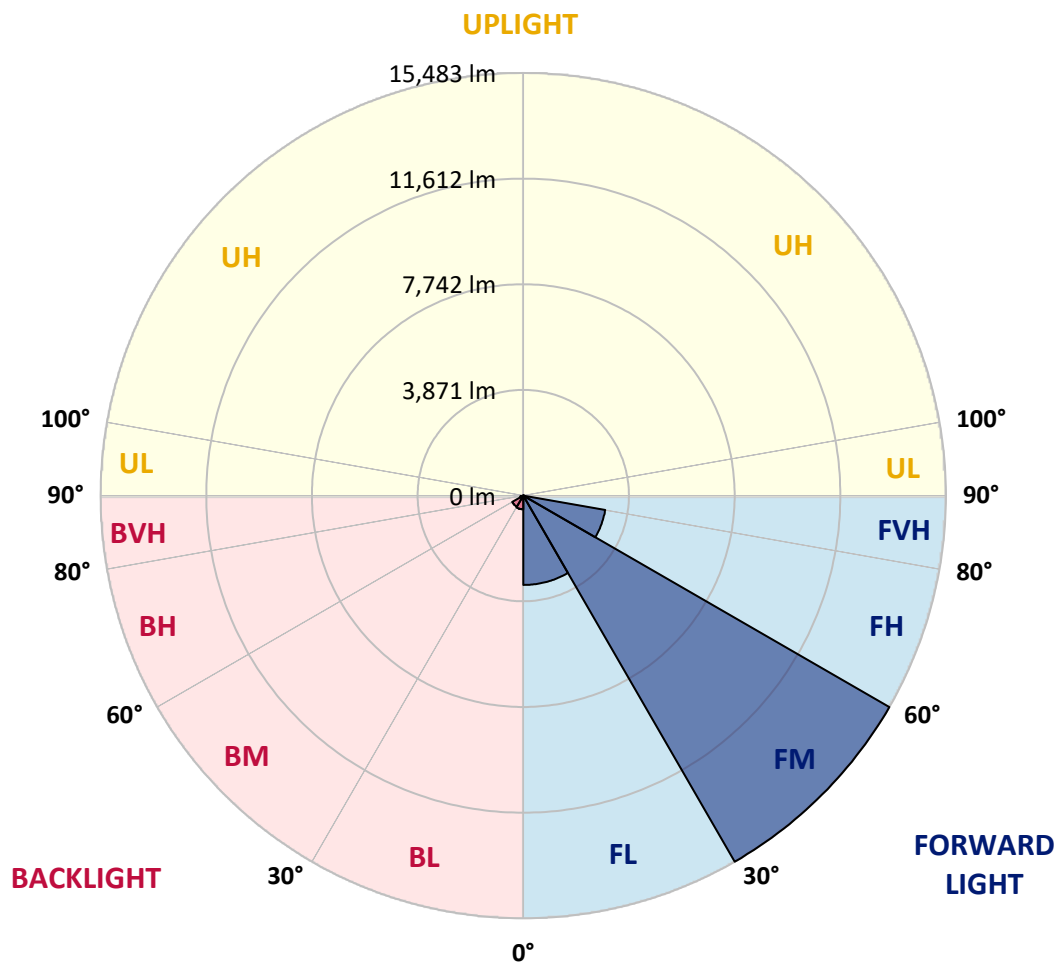
CATALOG NUMBER: GALN-SA5C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3272.2	14.3			
FM	(30°-60°)	15483.2	67.5			
FH	(60°-80°)	3046.5	13.3			G2/5000
FVH	(80°-90°)	36.1	0.2			G1/100
BL	(0°-30°)	501.3	2.2	B2/1000		
BM	(30°-60°)	469.8	2.0	B1/1000		
BH	(60°-80°)	108.5	0.5	B0/110		G0/110
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P454543

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6
2.5°	6472.1	6427.2	6365.4	6317.4	6204.5	6042.2	5870.5	5870.5	5705.0	5474.6	5239.5
5°	7464.9	7435.6	7375.2	7251.5	7124.7	6897.4	6552.5	6492.2	6196.8	5779.3	5340.0
7.5°	7868.6	7882.5	7885.6	7853.1	7792.8	7568.5	7226.8	7185.0	6713.3	6153.5	5471.5
10°	7481.9	7550.0	7616.5	7751.0	7941.3	7995.4	7802.1	7758.8	7294.8	6532.4	5613.8
12.5°	6906.6	6943.8	6980.9	7192.8	7574.7	8012.4	8215.0	8213.4	7820.6	6909.7	5794.7
15°	6639.1	6671.6	6674.7	6769.0	7100.0	7737.1	8391.3	8414.5	8334.1	7375.2	5989.6
17.5°	6694.8	6721.1	6699.4	6722.6	6895.8	7434.0	8371.2	8448.5	8750.1	7822.2	6165.9
20°	7058.2	7109.2	7025.7	6960.8	7013.4	7353.6	8303.1	8411.4	9043.9	8258.3	6326.7
22.5°	7710.8	7738.7	7633.5	7455.7	7362.9	7522.2	8284.6	8391.3	9294.4	8615.5	6419.5
25°	8436.1	8426.9	8310.9	8111.4	7916.5	7862.4	8406.7	8502.6	9501.7	8937.2	6447.3
27.5°	9161.4	9189.3	8994.4	8747.0	8513.5	8372.7	8680.5	8751.6	9735.2	9303.7	6481.4
30°	10004.3	9959.4	9767.7	9484.7	9217.1	9020.7	9121.2	9141.3	10056.9	9789.3	6571.1
32.5°	11100.7	10977.0	10762.1	10267.2	10075.4	9742.9	9767.7	9792.4	10448.1	10270.3	6679.3
35°	12588.5	12582.3	12161.6	11495.1	11028.1	10615.1	10506.9	10527.0	11040.4	10984.8	6919.0
37.5°	14379.3	14404.1	13924.6	13253.5	12393.6	11737.9	11515.2	11518.3	11940.5	11971.4	7284.0
40°	15837.7	15902.6	15616.5	15163.4	14314.4	13289.0	12914.8	12880.8	13205.5	13166.9	7805.2
42.5°	16465.5	16525.9	16632.6	16790.3	16323.3	15477.3	14594.3	14640.7	14739.6	14469.0	8389.7
45°	16157.8	16253.7	16672.8	17647.1	18086.3	17801.7	16748.5	16586.2	16167.1	15884.1	8977.4
47.5°	14875.7	15109.3	15809.8	17432.1	18969.3	19931.2	19179.6	18964.7	17596.0	16917.1	9351.7
50°	12767.9	12781.8	13757.6	15831.5	18511.6	21275.1	21661.8	21500.9	18927.6	17497.0	9540.3
52.5°	9255.8	9560.4	10454.3	12856.0	16528.9	21071.0	23243.8	23177.3	20300.8	17794.0	9812.5
54°	7036.6	7095.3	7890.2	10273.4	14251.0	19949.8	23341.3	23356.7	20982.9	17973.4	9973.3
55°	5768.4	5627.7	6462.8	8751.6	12696.7	18958.5	23022.7	23096.9	21289.1	18066.2	10092.4
57.5°	2734.2	2735.8	3374.5	4616.3	7952.1	14721.1	21075.6	21338.5	21323.1	18225.4	10458.9
60°	1384.1	1393.4	1534.1	2131.1	3928.1	9786.2	17425.9	18052.2	19682.2	18248.6	10579.6
62.5°	968.1	957.3	934.1	1025.3	1653.2	4973.5	12973.6	13517.9	16722.3	17365.6	10196.0
65°	828.9	805.7	740.8	726.9	835.1	1981.1	8080.4	8968.1	12767.9	15036.6	9104.2
67.5°	708.3	699.0	640.2	604.7	590.8	862.9	4169.4	4636.4	8726.9	10808.5	6895.8
70°	601.6	596.9	561.4	516.5	477.9	516.5	1546.5	1916.1	4863.7	5819.5	3253.8
72.5°	488.7	493.3	499.5	442.3	402.1	366.5	660.4	768.6	2035.2	2080.0	1138.2
75°	428.4	423.7	423.7	385.1	335.6	272.2	363.4	391.3	623.2	578.4	264.5
77.5°	301.6	290.7	340.2	317.0	279.9	193.3	207.2	219.6	258.3	221.1	123.7
80°	208.8	208.8	218.1	284.6	252.1	140.7	126.8	136.1	153.1	131.5	71.1
82.5°	117.5	120.6	142.3	151.6	146.9	94.3	83.5	85.1	102.1	89.7	44.8
85°	13.9	23.2	82.0	80.4	60.3	41.8	46.4	47.9	63.4	55.7	26.3
87.5°	1.5	3.1	17.0	21.7	15.5	17.0	17.0	17.0	21.7	24.7	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: P454543

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6	5092.6
2.5°	5112.7	4995.2	4715.3	4390.5	4183.3	3846.1	3561.6	3355.9	3304.9	3205.9	3235.3
5°	5106.5	4862.2	4291.5	3688.4	3045.0	2565.6	2208.4	1926.9	1803.2	1721.2	1664.0
7.5°	5109.6	4727.6	3812.1	2851.7	2083.1	1613.0	1282.0	1110.4	995.9	948.0	954.2
10°	5118.9	4576.1	3255.4	2112.5	1405.8	1042.3	839.7	757.8	719.1	712.9	711.4
12.5°	5140.6	4410.6	2723.4	1568.1	983.6	757.8	680.5	652.6	640.2	640.2	635.6
15°	5163.7	4228.1	2281.1	1166.1	757.8	651.1	615.5	601.6	593.9	593.9	592.3
17.5°	5163.7	4017.8	1868.2	904.7	652.6	598.5	570.7	552.1	545.9	545.9	544.4
20°	5131.3	3773.4	1501.6	728.4	592.3	549.0	521.2	501.1	493.3	490.2	488.7
22.5°	5018.4	3447.1	1195.4	626.3	542.8	505.7	470.1	446.9	440.8	437.7	439.2
25°	4817.3	3079.1	946.5	550.6	498.0	453.1	422.2	405.2	399.0	399.0	400.5
27.5°	4610.1	2694.0	750.1	493.3	443.8	403.6	378.9	368.1	366.5	371.2	372.7
30°	4418.3	2307.4	607.8	446.9	395.9	361.9	344.9	341.8	341.8	343.3	344.9
32.5°	4204.9	1968.7	508.8	406.7	357.2	327.9	318.6	318.6	321.7	321.7	324.8
35°	4070.4	1677.9	446.9	368.1	327.9	303.1	296.9	298.5	303.1	309.3	312.4
37.5°	3997.7	1446.0	406.7	337.1	300.0	283.0	276.8	279.9	290.7	301.6	303.1
40°	4003.9	1271.2	374.3	310.8	278.4	259.8	255.2	264.5	275.3	286.1	287.6
42.5°	4071.9	1141.3	343.3	279.9	259.8	233.5	232.0	241.3	245.9	256.7	258.3
45°	4152.3	1047.0	310.8	247.4	225.8	202.6	204.1	211.9	218.1	235.1	238.2
47.5°	4177.1	982.0	273.7	210.3	185.6	177.8	179.4	184.0	196.4	211.9	213.4
50°	4204.9	941.8	238.2	177.8	157.7	156.2	157.7	160.8	168.6	174.8	173.2
52.5°	4324.0	940.3	208.8	154.6	134.5	137.6	139.2	137.6	131.5	122.2	119.1
54°	4435.3	944.9	194.9	143.8	123.7	128.4	126.8	119.1	103.6	94.3	89.7
55°	4525.0	949.5	187.1	136.1	117.5	119.1	120.6	105.2	85.1	75.8	72.7
57.5°	4701.3	938.7	168.6	119.1	103.6	97.4	95.9	69.6	46.4	40.2	37.1
60°	4613.2	847.5	153.1	102.1	88.2	78.9	65.0	38.7	23.2	17.0	17.0
62.5°	4266.8	719.1	136.1	83.5	72.7	60.3	34.0	21.7	10.8	6.2	4.6
65°	3816.8	604.7	122.2	66.5	57.2	38.7	18.6	13.9	4.6	0.0	0.0
67.5°	2837.8	448.5	103.6	52.6	43.3	24.7	12.4	7.7	1.5	0.0	0.0
70°	1314.5	273.7	88.2	40.2	30.9	18.6	9.3	4.6	0.0	0.0	0.0
72.5°	377.3	171.7	72.7	29.4	21.7	15.5	7.7	3.1	1.5	0.0	0.0
75°	131.5	137.6	54.1	21.7	17.0	10.8	6.2	3.1	1.5	0.0	0.0
77.5°	78.9	111.3	34.0	18.6	13.9	9.3	6.2	3.1	1.5	1.5	0.0
80°	44.8	74.2	21.7	15.5	12.4	7.7	4.6	3.1	1.5	1.5	0.0
82.5°	24.7	35.6	17.0	13.9	10.8	7.7	4.6	3.1	1.5	1.5	1.5
85°	20.1	18.6	13.9	12.4	9.3	6.2	4.6	1.5	0.0	0.0	0.0
87.5°	15.5	12.4	12.4	12.4	9.3	6.2	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)