

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: P454550

Luminaire Tested: **GALN-SA5C-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23013 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

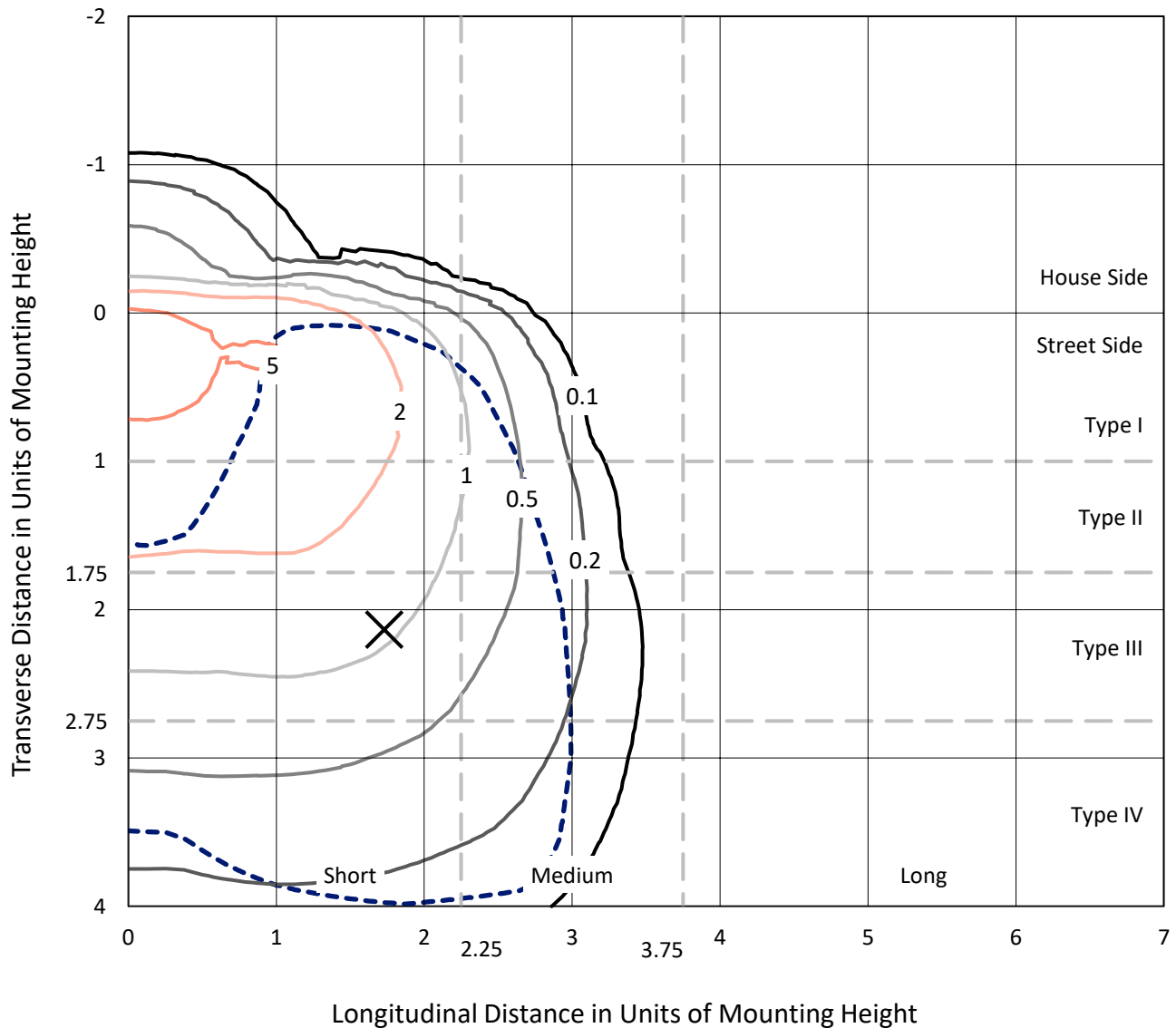
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454550
 CATALOG NUMBER: GALN-SA5C-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

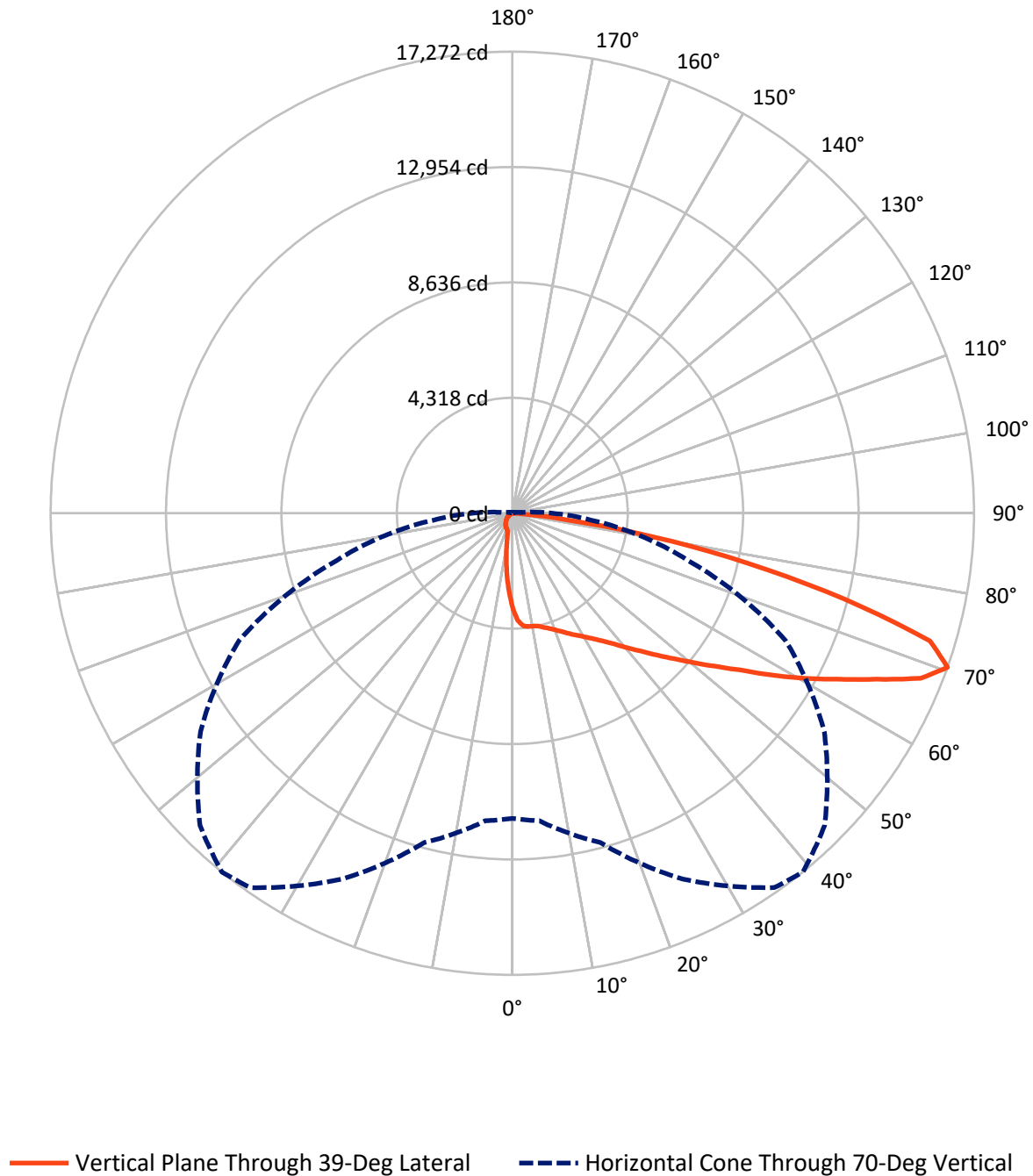
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P454550
CATALOG NUMBER: GALN-SA5C-830-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454550

CATALOG NUMBER: GALN-SA5C-830-U-SL4-HSS

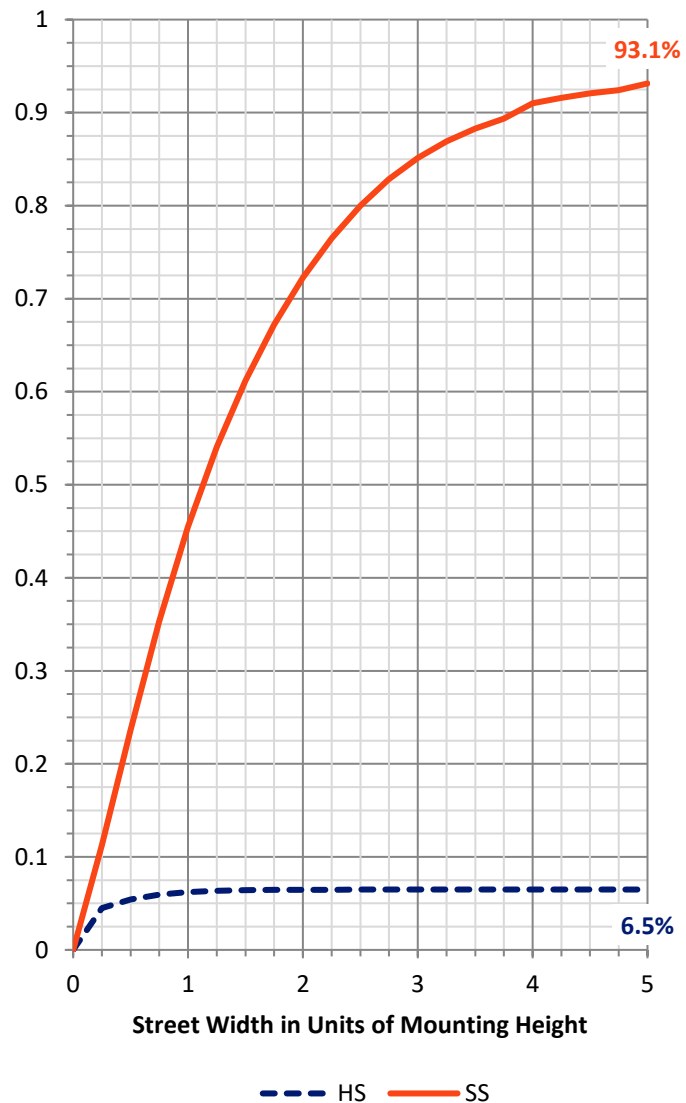
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1500.6	0.0	1500.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	21512.5	0.0	21512.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	23013.0	0.0	23013.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	1.3
10°-20°	795.9	3.5
20°-30°	1333.4	5.8
30°-40°	2067.9	9.0
40°-50°	3277.0	14.2
50°-60°	4803.6	20.9
60°-70°	6157.0	26.8
70°-80°	3868.9	16.8
80°-90°	403.0	1.8
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°	23013.0	100.0
0°-180°	23013.0	100.0



REPORT NUMBER: P454550

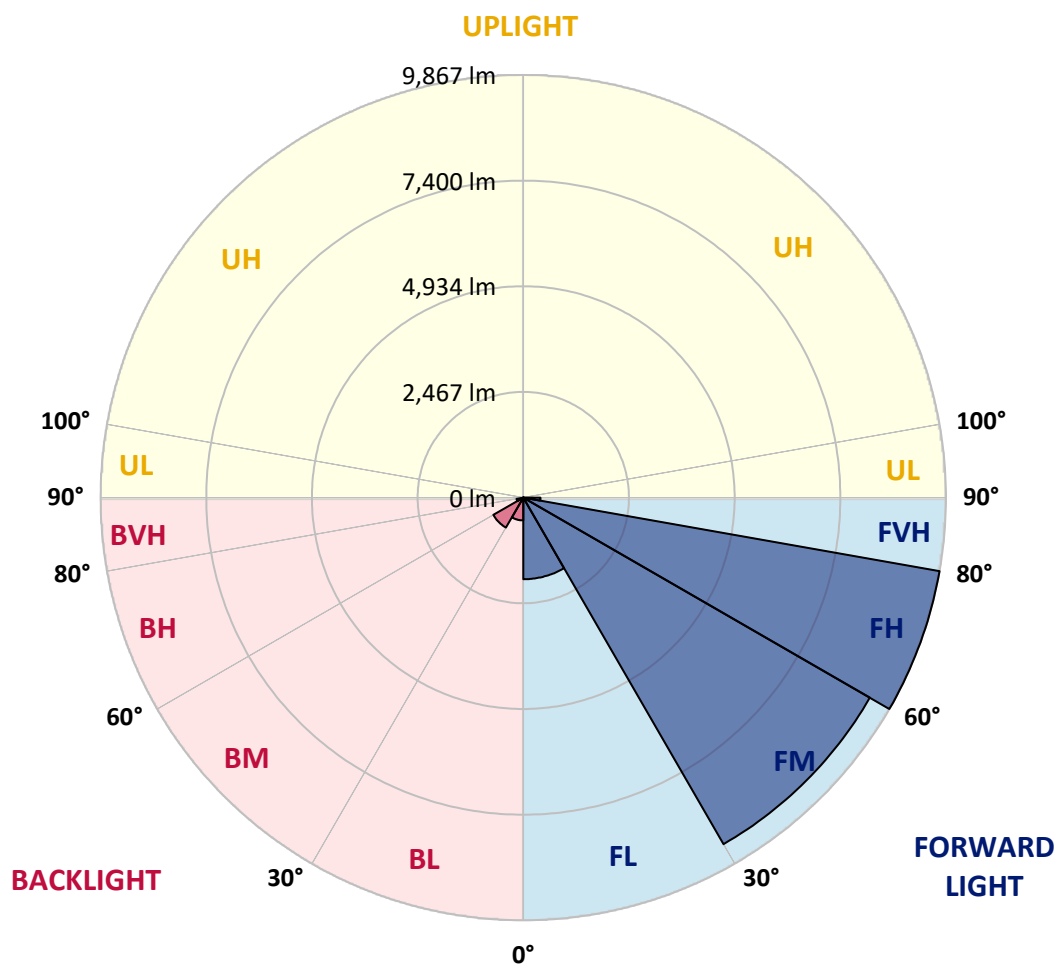
CATALOG NUMBER: GALN-SA5C-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1904.2	8.3			
FM	(30°-60°)	9340.9	40.6			
FH	(60°-80°)	9867.2	42.9			G4/12000
FVH	(80°-90°)	400.1	1.7			G3/500
BL	(0°-30°)	531.3	2.3	B2/1000		
BM	(30°-60°)	807.6	3.5	B1/1000		
BH	(60°-80°)	158.7	0.7	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G4

Type IV Short





REPORT NUMBER: P454550

CATALOG NUMBER: GALN-SA5C-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8
2.5°	4149.1	4135.2	4116.6	4095.0	4033.1	4022.3	3985.2	3906.3	3812.0	3734.6	3627.9
5°	4345.5	4353.2	4339.3	4300.6	4255.8	4229.5	4183.1	4060.9	3938.8	3782.6	3607.8
7.5°	4390.3	4405.8	4388.8	4351.7	4308.4	4280.5	4243.4	4138.3	3996.0	3818.1	3578.4
10°	4385.7	4404.2	4393.4	4359.4	4323.8	4297.5	4257.3	4173.8	4059.4	3872.3	3587.7
12.5°	4378.0	4402.7	4401.1	4384.1	4354.8	4334.7	4309.9	4235.7	4129.0	3951.1	3638.8
15°	4356.3	4387.2	4415.1	4429.0	4430.5	4430.5	4399.6	4320.7	4218.7	4054.7	3705.3
17.5°	4365.6	4401.1	4470.7	4510.9	4538.8	4535.7	4503.2	4418.2	4305.3	4161.5	3774.8
20°	4422.8	4470.7	4568.2	4648.6	4676.4	4667.1	4623.8	4524.9	4396.5	4252.7	3842.9
22.5°	4563.5	4606.8	4729.0	4823.3	4843.4	4818.7	4756.8	4622.3	4506.3	4351.7	3924.8
25°	4773.8	4824.9	4937.8	5008.9	5008.9	4995.0	4908.4	4750.6	4630.0	4489.3	4031.6
27.5°	5029.0	5072.3	5183.6	5247.0	5209.9	5169.7	5083.1	4892.9	4776.9	4662.5	4159.9
30°	5287.3	5315.1	5432.6	5460.5	5421.8	5370.8	5278.0	5087.8	4985.7	4897.6	4345.5
32.5°	5531.6	5591.9	5689.3	5683.1	5630.6	5605.8	5520.8	5318.2	5261.0	5251.7	4605.3
35°	5775.9	5822.3	5908.9	5930.6	5884.2	5879.5	5817.7	5667.7	5669.2	5729.5	5010.4
37.5°	5986.2	6028.0	6130.1	6178.0	6187.3	6210.5	6185.7	6086.8	6227.5	6393.0	5547.1
40°	6162.5	6221.3	6351.2	6434.7	6530.6	6615.6	6620.3	6641.9	6924.9	7209.5	6247.6
42.5°	6300.2	6382.1	6570.8	6725.4	6945.0	7053.3	7139.9	7259.0	7735.3	8160.5	7073.4
45°	6479.6	6573.9	6808.9	7051.7	7395.0	7572.9	7693.5	8012.1	8687.9	9267.8	7920.8
47.5°	6776.5	6826.0	7065.7	7419.8	7871.3	8125.0	8360.0	8842.5	9710.1	10229.7	8626.0
50°	7158.4	7190.9	7371.8	7863.6	8448.2	8782.2	9210.6	9778.1	10770.9	11027.6	9025.0
52.5°	7580.6	7591.4	7727.5	8352.3	9094.6	9515.2	9994.6	10695.1	11635.4	11596.7	9289.4
55°	8070.8	8055.4	8171.4	8882.7	9860.1	10341.0	10899.3	11633.8	12385.4	12000.3	9441.0
57.5°	8632.2	8590.4	8703.3	9586.3	10840.5	11415.8	11983.3	12444.1	12966.8	12339.0	9513.7
60°	9219.8	9136.3	9270.9	10376.6	11995.7	12541.6	13013.2	13136.9	13579.2	12608.1	9388.4
62.5°	9688.4	9689.9	9940.5	11217.8	13183.3	13661.2	13911.7	14023.1	14106.6	12549.3	8729.6
65°	10419.9	10444.6	10845.1	12385.4	14558.1	14972.6	15144.2	14782.4	14129.8	11819.4	7739.9
67.5°	11174.5	11253.4	11986.4	13993.7	16146.3	16480.3	16259.2	14929.3	13498.8	10153.9	5868.7
70°	11420.4	11550.3	12758.1	15100.9	17098.9	17272.1	16523.6	14244.2	11284.3	6788.8	2953.7
72.5°	10464.7	10675.0	12314.2	14697.3	16491.2	16341.2	14783.9	11946.2	7173.9	2577.9	901.6
75°	7379.6	7472.4	10234.3	12192.1	13263.8	12838.5	11245.7	7701.2	2950.6	723.7	309.3
77.5°	3810.4	3765.6	6086.8	8089.4	9459.5	9018.8	7364.1	3986.7	1118.1	301.6	191.8
80°	1970.2	2002.6	2633.6	4238.8	5774.4	5313.5	3926.4	1848.0	595.4	167.0	146.9
82.5°	1104.2	1036.1	1514.0	1851.1	2700.1	2117.1	1506.2	1308.3	259.8	100.5	139.2
85°	201.0	210.3	830.4	1000.5	937.1	595.4	485.6	873.7	75.8	55.7	97.4
87.5°	3.1	3.1	160.8	287.6	182.5	83.5	153.1	125.3	15.5	21.7	17.0
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: P454550

CATALOG NUMBER: GALN-SA5C-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8	3590.8
2.5°	3573.8	3515.0	3405.2	3297.0	3159.4	3046.5	2970.7	2891.8	2811.4	2817.6	2836.2
5°	3511.9	3409.9	3193.4	2964.5	2744.9	2547.0	2352.1	2177.4	2106.2	2041.3	2044.4
7.5°	3450.1	3306.3	2989.3	2630.5	2298.0	1960.9	1716.5	1515.5	1408.8	1328.4	1305.2
10°	3422.3	3232.0	2802.1	2308.8	1837.2	1469.1	1155.2	991.3	864.5	824.2	835.1
12.5°	3434.6	3194.9	2633.6	2018.1	1456.7	1023.7	804.1	720.6	692.8	688.2	685.1
15°	3457.8	3168.6	2468.1	1696.4	1070.1	760.8	675.8	660.3	657.2	654.1	655.7
17.5°	3488.8	3145.4	2291.8	1394.9	821.2	665.0	640.2	632.5	630.9	630.9	630.9
20°	3519.7	3119.2	2095.4	1125.8	685.1	627.9	612.4	607.7	606.2	606.2	604.7
22.5°	3555.2	3096.0	1895.9	884.6	630.9	601.6	587.6	584.6	583.0	581.5	581.5
25°	3606.3	3066.6	1684.1	723.7	596.9	576.8	562.9	559.8	558.3	552.1	553.6
27.5°	3674.3	3044.9	1466.0	624.8	566.0	545.9	536.6	532.0	528.9	524.2	525.8
30°	3767.1	3026.4	1234.1	570.6	530.4	513.4	504.1	501.0	498.0	493.3	493.3
32.5°	3927.9	3034.1	989.7	527.3	498.0	477.8	468.6	465.5	462.4	457.7	457.7
35°	4169.2	3078.9	791.8	490.2	459.3	439.2	429.9	429.9	425.3	419.1	417.5
37.5°	4563.5	3193.4	635.6	454.7	422.2	403.6	392.8	389.7	385.1	375.8	374.2
40°	5029.0	3371.2	535.1	419.1	388.2	369.6	360.3	351.0	338.7	329.4	327.8
42.5°	5613.6	3553.7	463.9	383.5	355.7	338.7	327.8	312.4	293.8	281.5	279.9
45°	6222.8	3720.7	416.0	351.0	324.8	310.8	298.5	273.7	250.5	235.1	233.5
47.5°	6677.5	3751.6	377.3	320.1	298.5	284.5	267.5	236.6	205.7	191.8	187.1
50°	6892.5	3601.6	337.1	289.2	272.2	256.7	235.1	199.5	165.5	148.5	145.4
52.5°	6968.2	3341.8	304.6	261.3	245.9	227.3	201.0	160.8	129.9	112.9	111.3
55°	6937.3	3014.0	275.3	235.1	215.0	193.3	167.0	128.4	95.9	82.0	78.9
57.5°	6774.9	2596.5	245.9	208.8	184.0	162.4	133.0	95.9	65.0	52.6	51.0
60°	6337.3	2027.4	216.5	179.4	156.2	133.0	105.2	68.0	40.2	29.4	29.4
62.5°	5598.1	1504.7	188.7	150.0	131.4	106.7	74.2	43.3	21.7	15.5	13.9
65°	4678.0	1110.3	157.7	126.8	109.8	83.5	52.6	26.3	10.8	4.6	3.1
67.5°	3264.5	685.1	131.4	103.6	89.7	60.3	32.5	10.8	4.6	0.0	0.0
70°	1483.0	326.3	100.5	78.9	68.0	43.3	17.0	6.2	3.1	0.0	0.0
72.5°	460.8	171.7	71.1	57.2	46.4	27.8	9.3	4.6	3.1	0.0	0.0
75°	213.4	109.8	44.8	30.9	26.3	13.9	6.2	3.1	1.5	0.0	0.0
77.5°	159.3	85.1	26.3	17.0	13.9	9.3	4.6	3.1	1.5	0.0	0.0
80°	139.2	43.3	15.5	10.8	7.7	6.2	3.1	1.5	0.0	0.0	0.0
82.5°	125.3	21.7	9.3	6.2	4.6	3.1	1.5	1.5	0.0	0.0	0.0
85°	68.0	12.4	6.2	4.6	3.1	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	12.4	6.2	4.6	3.1	3.1	1.5	1.5	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)