

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: P455259

Luminaire Tested: **GALN-SA6B-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20993 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 243
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

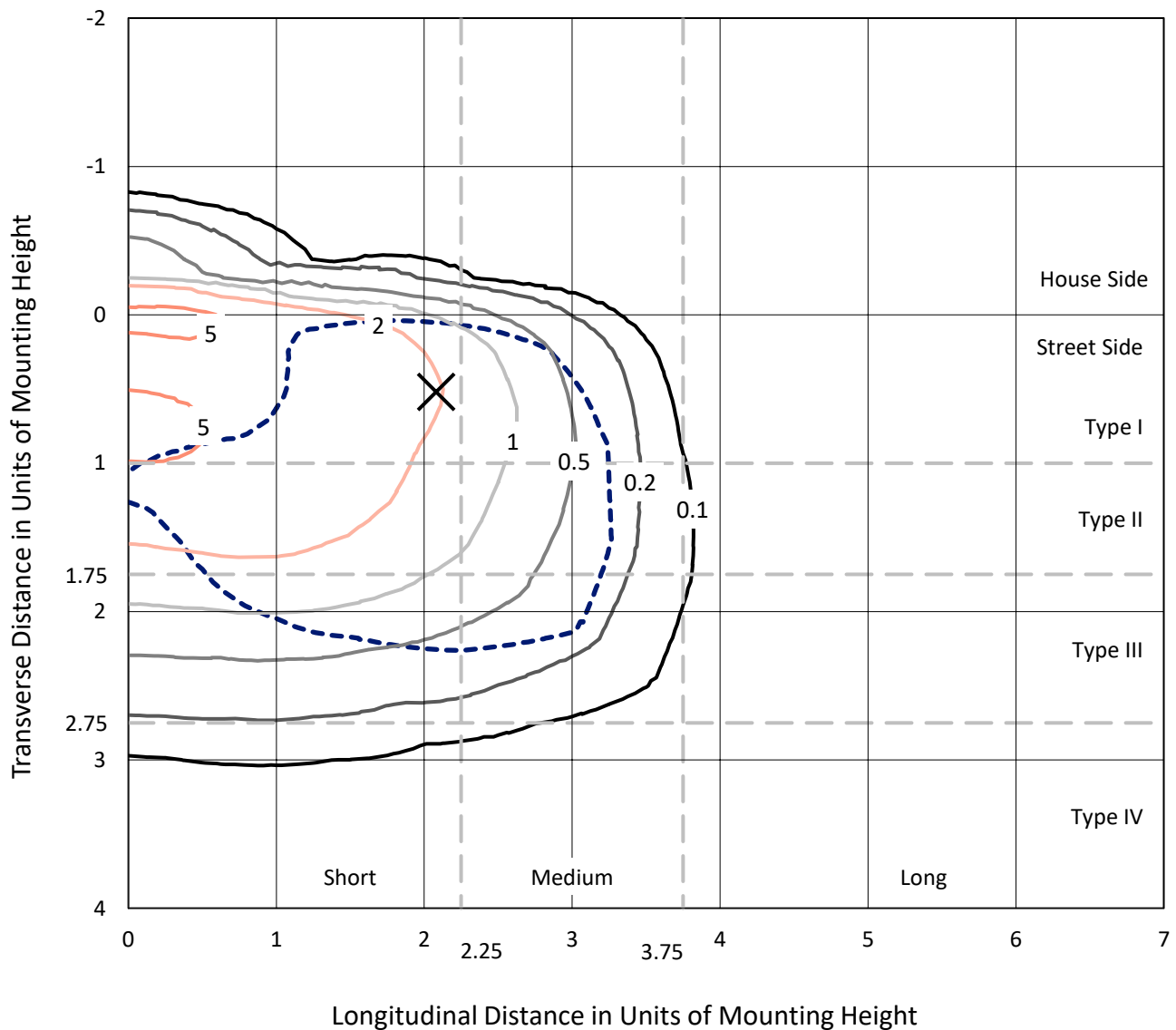


REPORT NUMBER: P455259

CATALOG NUMBER: GALN-SA6B-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

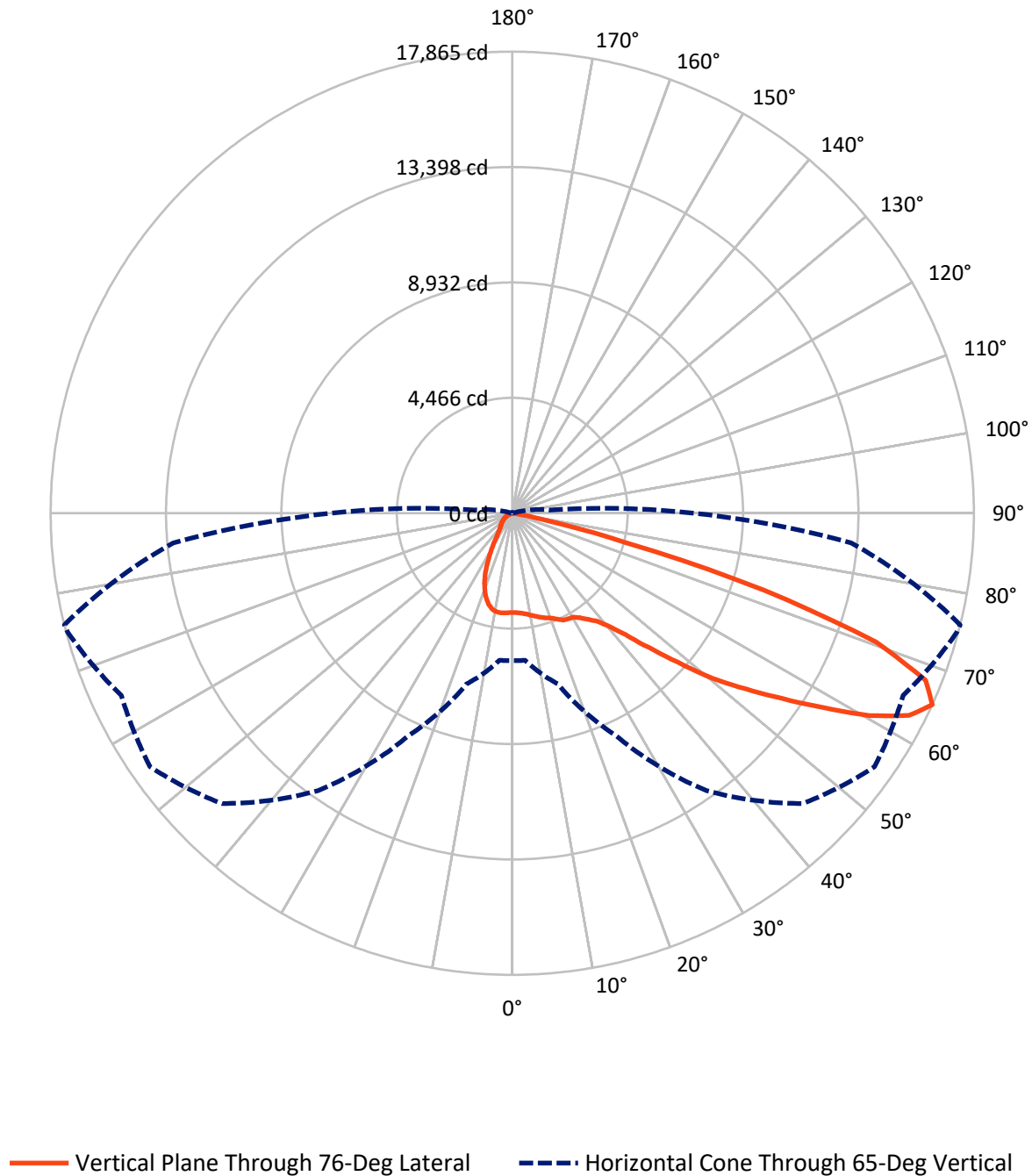


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

REPORT NUMBER: P455259

CATALOG NUMBER: GALN-SA6B-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P455259

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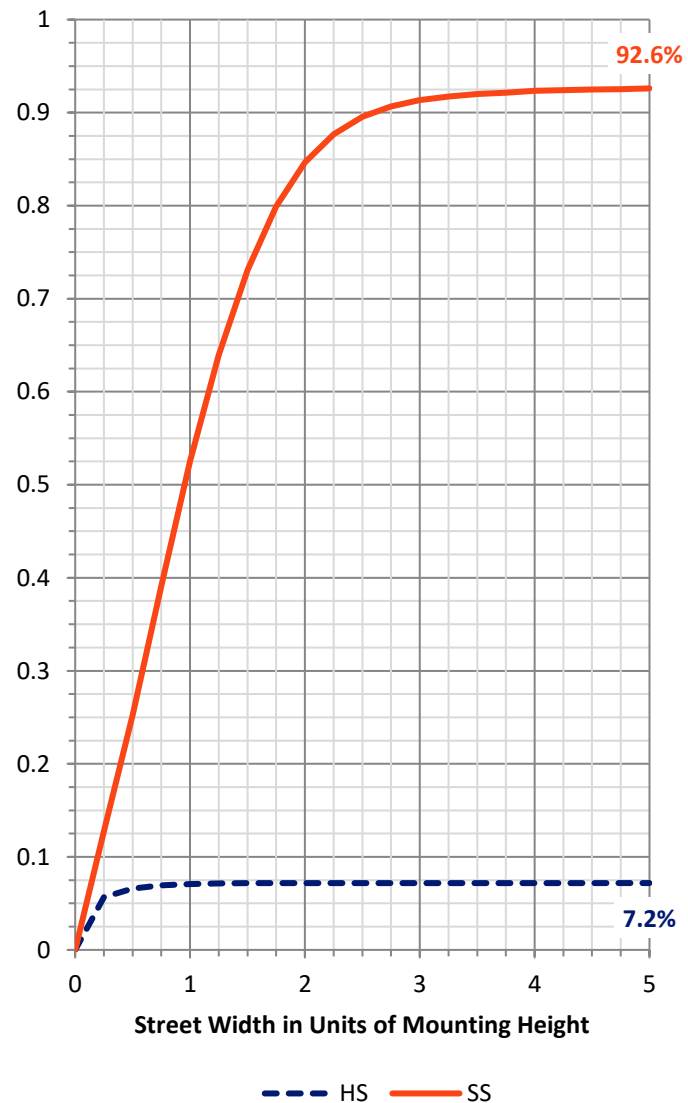
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1516.1	0.0	1516.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19476.9	0.0	19476.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	20993.0	0.0	20993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.3	1.5
10°-20°	704.4	3.4
20°-30°	1135.0	5.4
30°-40°	1973.6	9.4
40°-50°	3261.2	15.5
50°-60°	5037.8	24.0
60°-70°	6151.9	29.3
70°-80°	2334.8	11.1
80°-90°	77.9	0.4
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°	20993.0	100.0
0°-180°	20993.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455259

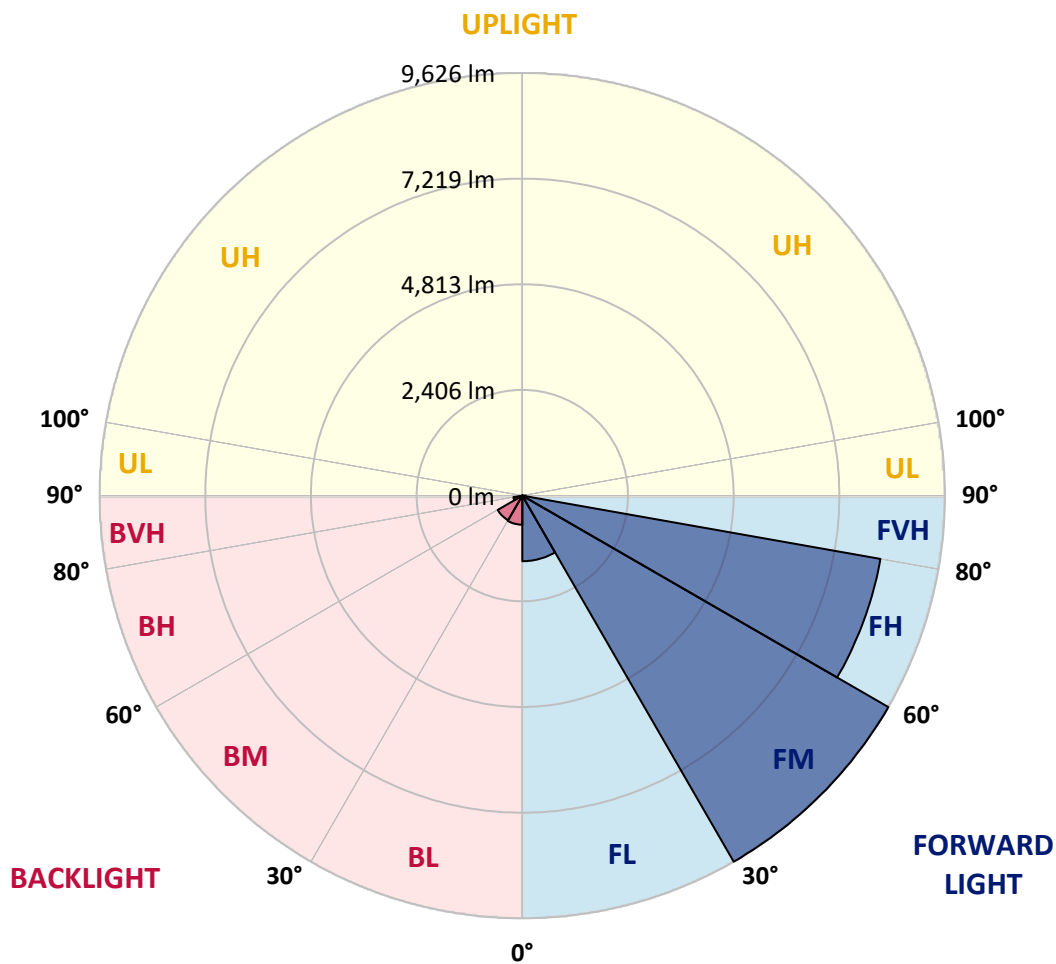
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1493.4	7.1			
FM	(30°-60°)	9625.6	45.9			
FH	(60°-80°)	8281.0	39.4			G4/12000
FVH	(80°-90°)	76.8	0.4			G1/100
BL	(0°-30°)	662.4	3.2	B2/1000		
BM	(30°-60°)	647.0	3.1	B1/1000		
BH	(60°-80°)	205.7	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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 III Short



REPORT NUMBER: P455259

CATALOG NUMBER: GALN-SA6B-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3
2.5°	3669.8	3671.3	3680.2	3702.4	3736.5	3764.7	3788.4	3827.0	3853.6	3856.6	3865.5
5°	3416.4	3398.6	3416.4	3474.2	3526.1	3604.6	3701.0	3797.3	3883.3	3889.2	3930.7
7.5°	3131.8	3146.6	3174.8	3234.1	3331.9	3452.0	3591.3	3763.2	3926.3	3941.1	4022.6
10°	2842.8	2875.4	2921.3	3011.8	3148.1	3303.7	3493.5	3739.5	3994.4	4015.2	4156.0
12.5°	2576.0	2590.8	2647.1	2768.7	2937.7	3157.0	3419.4	3726.2	4070.0	4095.2	4298.3
15°	2371.5	2390.7	2439.6	2549.3	2737.6	3019.2	3358.6	3721.7	4144.1	4179.7	4440.6
17.5°	2332.9	2344.8	2365.5	2439.6	2604.2	2909.5	3303.7	3720.2	4215.3	4258.3	4572.5
20°	2491.5	2481.1	2460.4	2453.0	2543.4	2825.0	3263.7	3732.1	4283.5	4332.4	4711.8
22.5°	2888.7	2902.1	2780.5	2636.8	2607.1	2811.7	3257.8	3788.4	4391.7	4449.5	4867.4
25°	3732.1	3629.8	3440.1	3096.2	2836.9	2893.2	3324.5	3921.8	4517.6	4581.4	5008.2
27.5°	4664.4	4633.2	4338.3	3772.1	3288.9	3065.1	3443.1	4024.1	4559.1	4624.4	5088.3
30°	5580.4	5617.4	5279.5	4654.0	3945.5	3383.8	3554.2	4062.6	4596.2	4664.4	5190.5
32.5°	6429.6	6474.1	6177.7	5558.1	4719.2	3935.1	3745.4	4212.3	4751.8	4821.5	5361.0
35°	7098.1	7104.0	6880.2	6386.6	5564.0	4605.1	4159.0	4474.7	4962.3	5043.8	5541.8
37.5°	7711.7	7702.8	7440.5	7015.1	6268.1	5270.6	4679.2	4777.0	5202.4	5286.9	5802.7
40°	8166.7	8172.7	8088.2	7688.0	6924.7	5885.7	5091.2	5060.1	5605.5	5737.5	6182.1
42.5°	8470.6	8525.4	8566.9	8363.9	7750.2	6643.1	5724.1	5666.3	6305.1	6414.8	6718.7
45°	8716.6	8814.4	9021.9	9011.6	8543.2	7572.4	6592.7	6474.1	7296.7	7413.8	7401.9
47.5°	8896.0	8995.3	9339.1	9546.6	9288.7	8473.5	7685.0	7582.8	8480.9	8608.4	8156.4
50°	8987.8	9106.4	9545.1	9946.8	9871.2	9342.1	8930.0	8936.0	9911.2	10034.3	9030.8
52.5°	8772.9	8927.1	9654.8	10378.1	10524.9	10173.6	10096.5	10292.2	11184.4	11289.7	9820.8
55°	8086.7	8280.9	9505.1	10745.7	11282.2	11154.8	11421.6	11719.5	12576.2	12644.4	10631.6
57.5°	7652.4	7858.4	9063.4	11058.4	12192.3	12387.9	12810.4	13028.2	14012.4	14185.8	11562.4
60°	7286.3	7447.9	8700.3	11125.1	13117.2	13896.8	14307.3	14532.6	15785.1	15897.7	12586.5
62.5°	6677.2	6862.4	8086.7	10659.7	13582.6	15104.7	15955.5	15854.7	17156.1	17234.6	13215.0
65°	5697.4	5713.7	6841.7	9490.3	13102.3	15888.8	17113.1	16690.7	17811.2	17864.5	13166.1
67.5°	4252.3	4409.4	5263.2	7459.7	11067.3	15218.9	17488.1	16712.9	17397.7	17249.4	12121.1
70°	2739.0	2859.1	3567.6	5172.8	7980.0	12700.7	16244.5	15567.2	15269.3	14940.2	9921.6
72.5°	1264.3	1418.4	2119.5	2955.4	4732.6	9047.1	13186.8	12647.3	10990.3	10178.0	6306.6
75°	551.4	589.9	1046.4	1559.2	2218.8	4784.4	8694.4	7851.0	4963.8	4533.9	2524.1
77.5°	336.5	361.6	548.4	835.9	871.5	1823.1	4683.6	3425.3	1534.0	1353.2	684.8
80°	228.3	256.4	398.7	437.2	297.9	508.4	1757.8	914.5	309.8	296.4	146.7
82.5°	111.2	140.8	295.0	244.6	128.9	163.0	511.3	195.6	90.4	84.5	51.9
85°	16.3	28.2	166.0	160.1	57.8	38.5	90.4	48.9	31.1	29.6	23.7
87.5°	0.0	0.0	56.3	25.2	5.9	5.9	10.4	10.4	11.9	10.4	11.9
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: P455259

CATALOG NUMBER: GALN-SA6B-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3	3840.3
2.5°	3869.9	3877.3	3849.2	3809.2	3766.2	3723.2	3662.4	3607.6	3575.0	3594.3	3546.8
5°	3939.6	3933.7	3859.6	3738.0	3576.5	3382.3	3189.6	3025.1	2971.7	2891.7	2882.8
7.5°	4035.9	4019.6	3862.5	3583.9	3219.3	2854.6	2498.9	2263.3	2128.4	2014.3	2017.2
10°	4170.8	4123.4	3828.4	3312.6	2712.4	2162.5	1708.9	1397.7	1262.8	1219.8	1185.7
12.5°	4310.1	4218.2	3733.6	2946.5	2112.1	1477.7	1039.0	849.3	766.3	739.6	736.6
15°	4434.6	4289.4	3567.6	2506.3	1535.5	944.1	708.5	646.2	635.8	637.3	635.8
17.5°	4557.7	4345.7	3337.8	2039.5	1043.4	677.3	609.2	594.3	598.8	604.7	603.2
20°	4659.9	4357.6	3044.4	1556.3	738.1	594.3	572.1	569.2	573.6	578.0	578.0
22.5°	4771.1	4366.5	2696.1	1077.5	603.2	552.8	541.0	541.0	546.9	552.8	554.3
25°	4854.1	4317.5	2279.6	773.7	532.1	512.8	506.9	508.4	514.3	517.3	515.8
27.5°	4867.4	4179.7	1837.9	592.9	483.2	463.9	458.0	463.9	456.5	461.0	458.0
30°	4879.3	4004.8	1390.3	499.5	438.7	409.1	400.2	391.3	385.4	378.0	376.5
32.5°	4916.3	3798.8	1015.3	449.1	397.2	364.6	343.9	318.7	299.4	293.5	292.0
35°	4932.6	3551.3	745.5	409.1	360.2	324.6	287.5	252.0	223.8	213.4	220.8
37.5°	4994.9	3311.2	578.0	379.4	327.6	283.1	235.7	191.2	164.5	158.6	161.6
40°	5122.4	3050.3	484.7	354.2	299.4	244.6	186.8	143.8	126.0	120.1	118.6
42.5°	5326.9	2790.9	431.3	330.5	271.2	206.0	146.7	112.6	97.8	93.4	93.4
45°	5575.9	2541.9	394.3	305.3	241.6	166.0	115.6	90.4	81.5	78.6	78.6
47.5°	5903.5	2324.0	363.1	280.1	209.0	131.9	93.4	78.6	72.6	74.1	75.6
50°	6235.5	2162.5	329.0	252.0	171.9	108.2	80.0	69.7	68.2	69.7	69.7
52.5°	6486.0	2067.6	283.1	213.4	134.9	90.4	71.1	65.2	63.7	60.8	60.8
55°	6823.9	2046.9	225.3	173.4	106.7	75.6	63.7	59.3	54.8	51.9	50.4
57.5°	7258.2	2070.6	173.4	134.9	83.0	62.3	56.3	48.9	43.0	37.1	37.1
60°	7527.9	2017.2	134.9	103.8	60.8	50.4	43.0	35.6	28.2	23.7	22.2
62.5°	7442.0	1791.9	106.7	77.1	43.0	37.1	28.2	23.7	16.3	11.9	10.4
65°	6998.8	1446.6	86.0	53.4	31.1	22.2	14.8	14.8	7.4	1.5	0.0
67.5°	6125.8	1071.6	68.2	35.6	17.8	10.4	7.4	4.4	0.0	0.0	0.0
70°	4986.0	773.7	53.4	22.2	10.4	7.4	3.0	1.5	0.0	0.0	0.0
72.5°	3165.9	443.2	41.5	13.3	7.4	3.0	0.0	0.0	0.0	0.0	0.0
75°	1224.3	173.4	28.2	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	346.8	81.5	16.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.4	35.6	8.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.0	14.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.2	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	1.5	0.0	0.0	0.0	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)