

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: P457088

Luminaire Tested: **GALN-SA8B-827-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457088  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24323 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

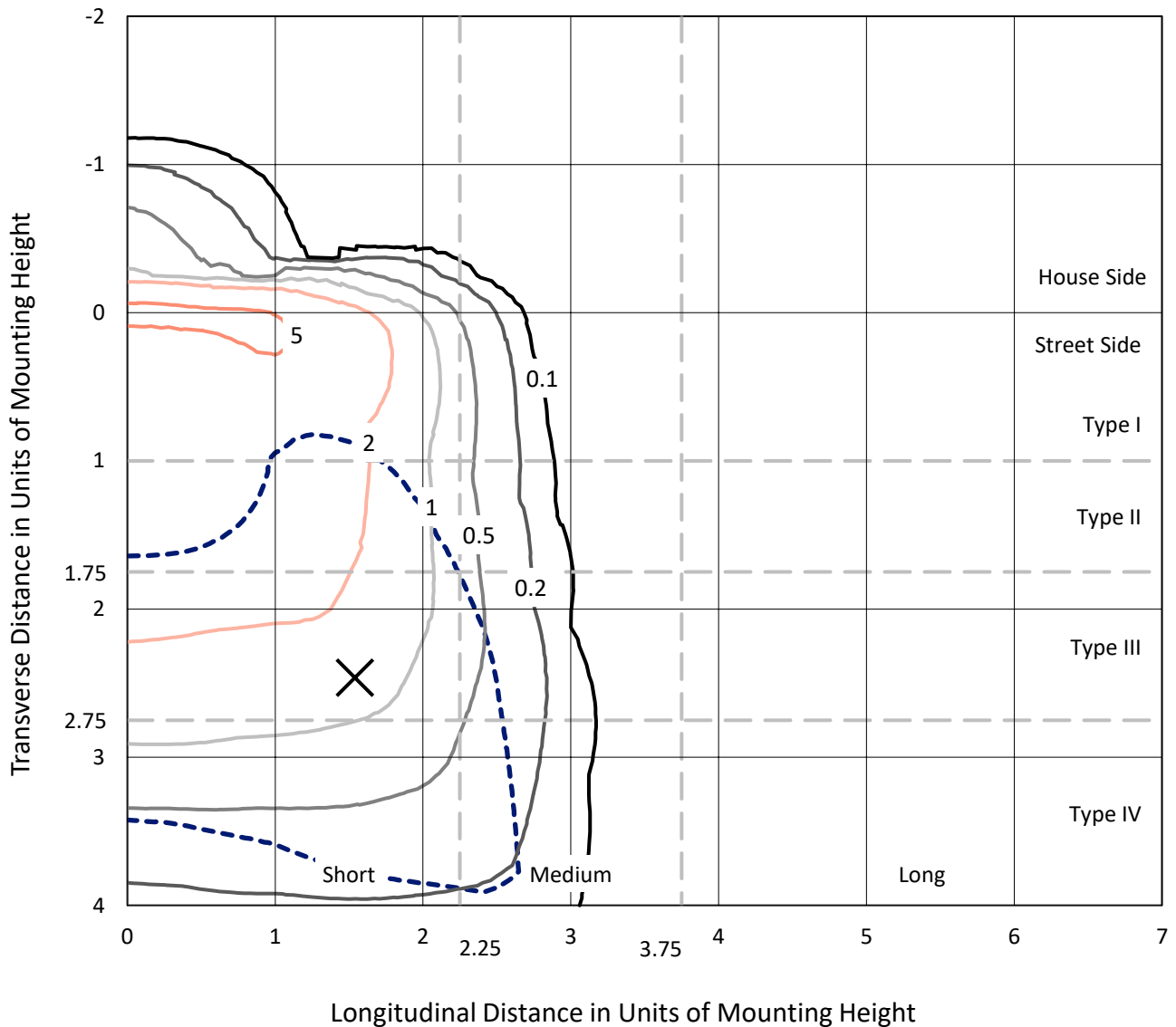
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457088  
 CATALOG NUMBER: GALN-SA8B-827-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

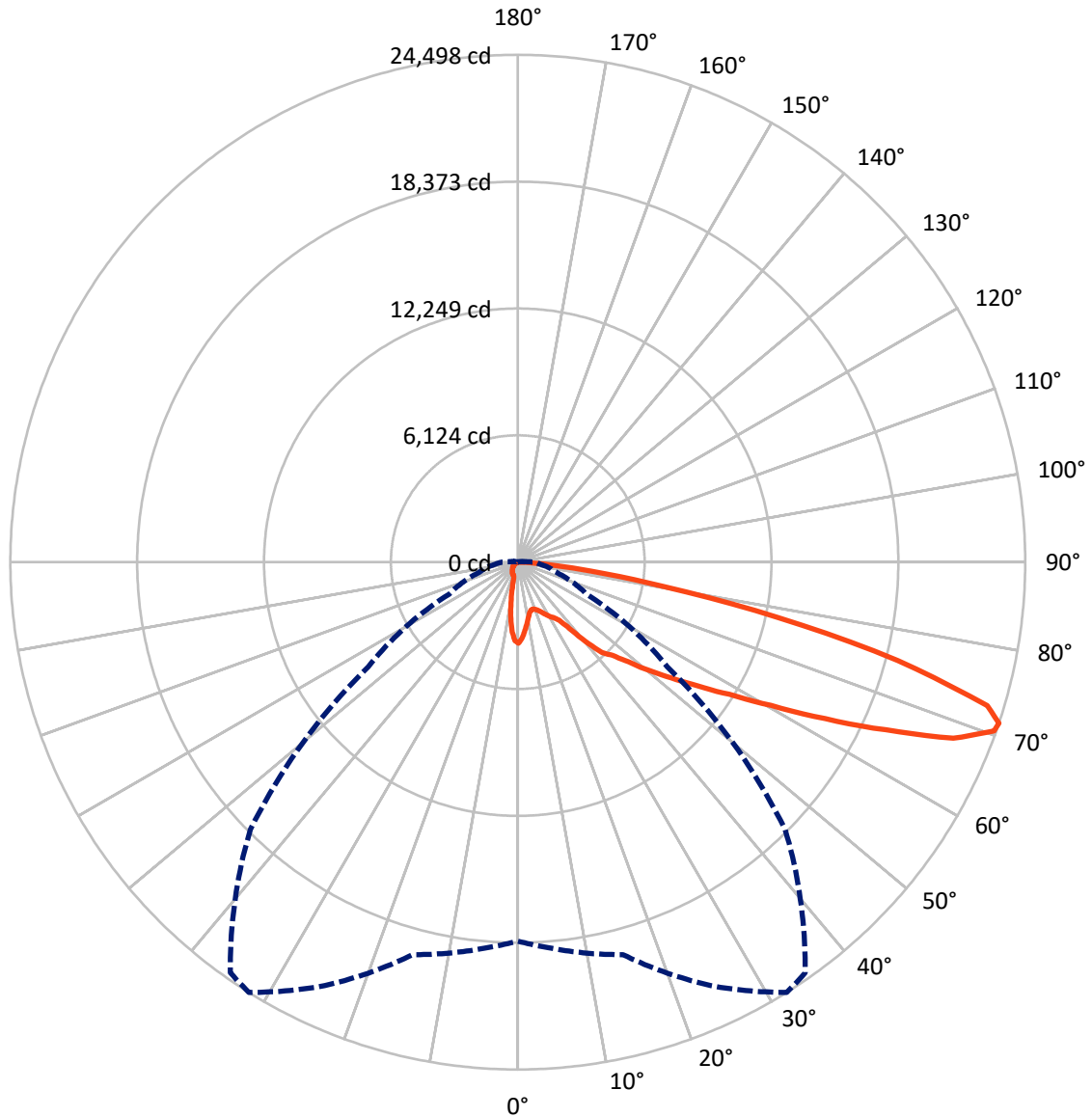
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P457088  
CATALOG NUMBER: GALN-SA8B-827-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P457088

CATALOG NUMBER: GALN-SA8B-827-U-T4FT-HSS

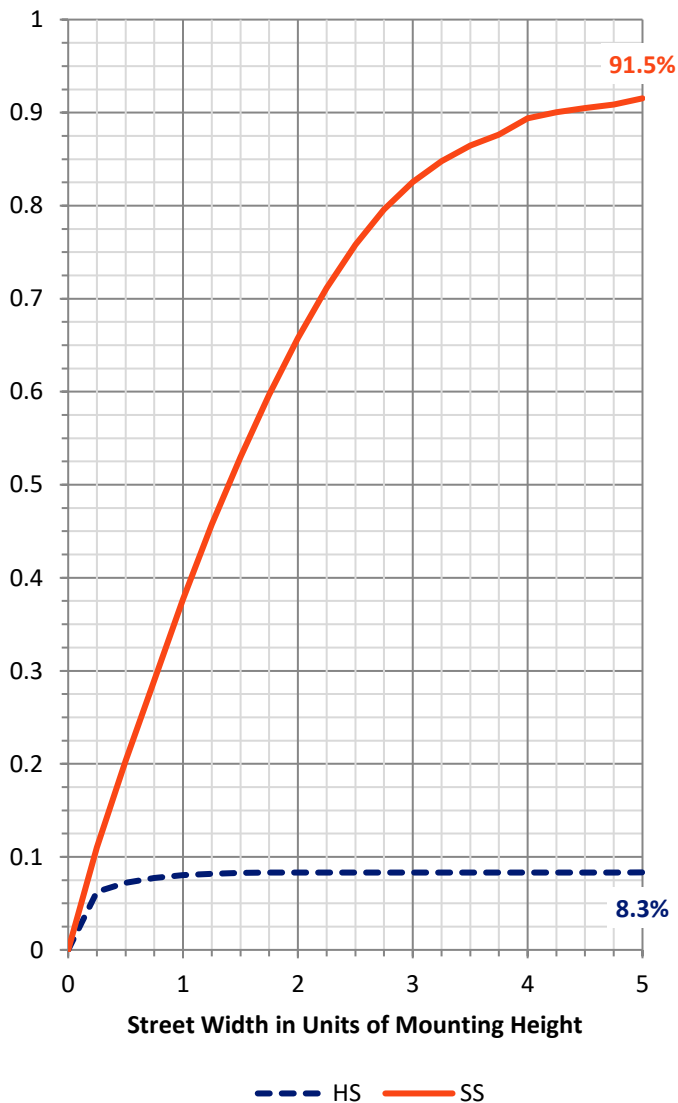
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2037.3	0.0	2037.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	22285.7	0.0	22285.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	24323.0	0.0	24323.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.1	1.3
10°-20°	690.3	2.8
20°-30°	1073.9	4.4
30°-40°	1789.1	7.4
40°-50°	3328.0	13.7
50°-60°	5343.2	22.0
60°-70°	7186.9	29.5
70°-80°	4264.1	17.5
80°-90°	329.6	1.4
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°	24323.0	100.0
0°-180°	24323.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457088

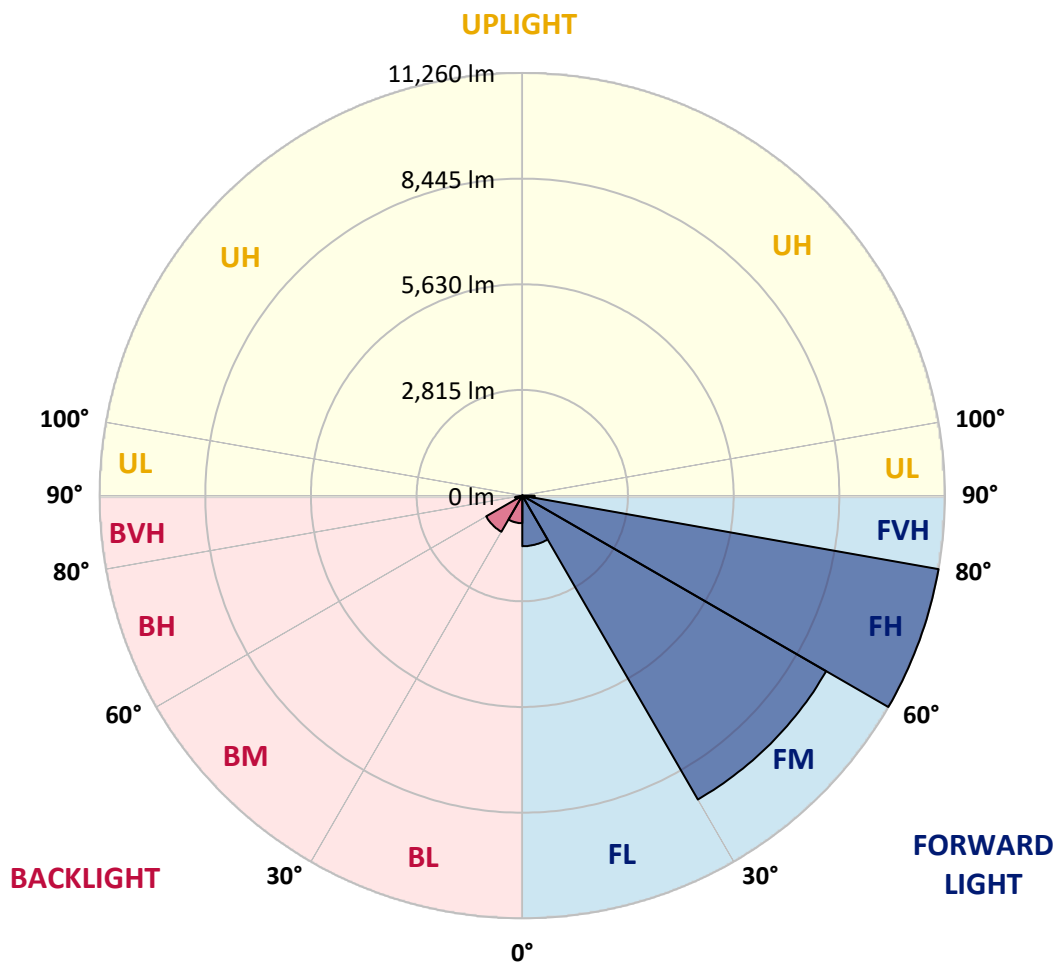
CATALOG NUMBER: GALN-SA8B-827-U-T4FT-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.1	5.5			
FM	(30°-60°)	9348.9	38.4			
FH	(60°-80°)	11260.4	46.3			G4/12000
FVH	(80°-90°)	328.3	1.3			G3/500
BL	(0°-30°)	734.1	3.0	B2/1000		
BM	(30°-60°)	1111.4	4.6	B2/2500		
BH	(60°-80°)	190.6	0.8	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G4**

Type IV Short





REPORT NUMBER: P457088

CATALOG NUMBER: GALN-SA8B-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5
2.5°	3627.7	3665.1	3659.5	3672.5	3704.3	3717.3	3752.8	3792.0	3846.2	3883.5	3907.8
5°	3248.7	3276.7	3280.4	3345.8	3377.5	3413.0	3517.6	3631.5	3758.4	3859.2	3926.5
7.5°	2843.6	2858.5	2888.4	2974.2	3054.5	3090.0	3248.7	3446.6	3646.4	3835.0	3956.3
10°	2509.3	2526.2	2580.3	2671.8	2746.5	2793.1	3013.5	3261.8	3541.8	3821.9	3999.3
12.5°	2318.9	2328.2	2348.8	2430.9	2526.2	2576.6	2813.7	3097.5	3457.8	3827.5	4072.1
15°	2305.8	2302.1	2277.8	2311.4	2397.3	2449.6	2681.1	2985.5	3383.1	3846.2	4158.0
17.5°	2374.9	2365.6	2307.7	2307.7	2378.7	2421.6	2625.1	2925.7	3345.8	3889.1	4279.3
20°	2481.3	2466.4	2371.2	2363.7	2432.8	2477.6	2658.7	2929.4	3353.3	3969.4	4441.8
22.5°	2615.8	2599.0	2455.2	2458.9	2533.6	2578.4	2755.8	2996.7	3399.9	4068.4	4615.4
25°	2791.3	2772.6	2602.7	2595.2	2673.6	2712.9	2899.6	3116.1	3465.3	4191.6	4843.2
27.5°	3024.7	2985.5	2781.9	2770.7	2854.8	2905.2	3073.2	3276.7	3581.0	4361.5	5149.4
30°	3217.0	3174.0	2979.8	2950.0	3039.6	3078.8	3252.4	3493.3	3808.8	4658.3	5573.2
32.5°	3469.0	3405.5	3177.8	3099.3	3194.6	3245.0	3512.0	3896.6	4146.8	4972.0	6077.3
35°	4036.6	3997.4	3719.2	3444.8	3439.1	3502.6	3894.7	4303.6	4494.0	5461.2	6764.4
37.5°	4848.8	4820.8	4525.8	4158.0	4051.5	4021.7	4359.6	4751.7	5048.6	6133.3	7563.5
40°	5791.7	5726.3	5455.6	5143.8	5005.6	4917.9	4908.5	5418.2	5773.0	7046.3	8396.2
42.5°	6467.5	6348.0	6019.4	5997.0	5967.2	5875.7	5610.6	6392.9	6708.4	8028.4	9286.8
45°	7177.0	6995.9	6506.8	6422.7	6411.5	6405.9	6671.1	7546.7	7727.8	9092.6	10201.7
47.5°	7727.8	7584.1	7182.6	7145.3	7192.0	7318.9	8073.2	8771.5	8734.2	10041.1	10969.1
50°	8461.6	8353.3	7907.1	7978.0	8218.9	8426.1	9654.6	10106.5	9561.3	10787.9	11527.3
52.5°	9327.9	9128.1	8713.6	8905.9	9275.6	9621.0	11333.1	11275.3	10141.9	11349.9	11943.7
55°	10078.5	9936.6	9794.7	9994.4	10547.1	10978.4	12849.2	12150.9	10563.9	11801.8	12126.6
57.5°	11348.1	11314.5	11168.8	11372.3	12042.6	12490.7	14206.6	12830.5	10834.6	12037.0	11911.9
60°	13226.3	13172.2	12901.5	13161.0	14034.8	14738.7	15457.5	13441.1	10896.2	11945.5	11293.9
62.5°	15485.5	15300.7	15069.1	15451.9	16650.6	16960.5	16635.6	13803.3	10666.6	11217.4	9804.0
65°	17595.3	17404.9	17410.5	18217.0	19522.1	19733.1	18009.8	13749.1	9994.4	9393.2	7231.2
67.5°	19210.3	19178.6	19406.4	20980.3	22686.8	22541.2	19238.3	12938.8	8002.3	6088.5	3842.4
70°	19292.5	19354.1	20007.6	22664.4	24397.0	24165.5	19133.8	10517.2	4988.8	2800.6	1514.2
71°	18299.2	18713.7	19617.3	22612.1	24497.9	24197.3	18252.5	8808.9	3659.5	1953.0	1092.2
72.5°	15593.8	15812.2	17765.2	21280.9	23700.6	23058.4	16017.6	6174.4	2343.2	1194.9	627.3
75°	8588.5	9126.3	11897.0	16695.4	18956.4	18392.5	10438.8	2933.2	1168.8	653.5	259.5
77.5°	4088.9	3984.3	5804.7	9929.1	12852.9	12823.1	5259.5	1303.2	681.5	442.5	130.7
80°	1168.8	1314.4	2221.8	4720.0	7136.0	7214.4	2020.2	629.2	472.4	345.4	67.2
82.5°	352.9	360.3	815.9	2087.4	3549.3	3345.8	758.0	321.1	339.8	274.5	39.2
85°	61.6	76.6	240.9	735.6	1353.6	1026.9	190.4	153.1	224.0	181.1	22.4
87.5°	3.7	5.6	80.3	84.0	119.5	69.1	33.6	22.4	48.5	48.5	13.1
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: P457088

CATALOG NUMBER: GALN-SA8B-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5
2.5°	3924.6	3935.8	3928.3	3911.5	3883.5	3849.9	3805.1	3767.8	3736.0	3719.2	3739.7
5°	3948.9	3963.8	3926.5	3842.4	3715.5	3577.3	3420.5	3299.1	3203.9	3174.0	3162.8
7.5°	3986.2	3995.5	3894.7	3708.0	3439.1	3112.4	2826.7	2585.9	2399.2	2343.2	2261.0
10°	4034.7	4029.1	3838.7	3491.4	3019.1	2528.0	2085.5	1756.9	1508.6	1419.0	1411.5
12.5°	4109.4	4079.6	3767.8	3196.4	2518.7	1876.4	1329.4	1040.0	883.1	830.8	819.6
15°	4202.8	4131.8	3655.7	2851.0	1928.7	1211.7	819.6	731.9	711.4	707.6	703.9
17.5°	4312.9	4200.9	3508.2	2427.2	1355.5	786.0	685.2	683.3	685.2	681.5	679.6
20°	4462.3	4273.7	3332.7	1925.0	896.2	662.8	653.5	653.5	655.3	653.5	653.5
22.5°	4621.0	4359.6	3116.1	1469.4	675.9	629.2	627.3	631.1	634.8	632.9	632.9
25°	4817.0	4471.6	2830.5	1006.4	604.9	601.2	603.1	610.5	618.0	619.9	618.0
27.5°	5100.8	4609.8	2524.3	692.7	554.5	558.3	576.9	595.6	606.8	608.7	608.7
30°	5420.1	4762.9	2124.7	562.0	513.4	513.4	535.9	571.3	595.6	599.3	601.2
32.5°	5830.9	4940.3	1682.2	506.0	474.2	470.5	491.0	534.0	578.8	591.9	591.9
35°	6338.7	5149.4	1250.9	470.5	446.2	436.9	448.1	483.6	541.5	578.8	582.5
37.5°	6934.3	5347.3	914.9	438.8	420.1	407.0	414.5	442.5	489.2	545.2	560.1
40°	7485.1	5522.8	683.3	412.6	394.0	384.6	390.2	403.3	442.5	494.8	504.1
42.5°	8086.3	5659.1	543.3	384.6	367.8	364.1	364.1	369.7	395.8	425.7	427.6
45°	8685.6	5707.6	455.6	351.0	339.8	343.5	341.7	337.9	349.1	345.4	345.4
47.5°	9113.2	5649.8	377.1	319.3	319.3	324.9	315.5	302.5	296.9	274.5	276.3
50°	9406.3	5438.8	309.9	281.9	296.9	304.3	285.7	265.1	244.6	220.3	214.7
52.5°	9527.7	5063.5	253.9	233.4	263.3	272.6	250.2	225.9	194.2	173.6	168.0
55°	9449.3	4600.5	211.0	190.4	222.2	233.4	211.0	183.0	147.5	125.1	121.4
57.5°	9103.8	4047.8	179.2	151.2	177.4	184.8	169.9	140.0	104.6	82.2	82.2
60°	8506.4	3476.5	145.6	119.5	132.6	143.8	128.8	100.8	70.9	50.4	46.7
62.5°	7294.7	2823.0	117.6	93.4	93.4	102.7	89.6	72.8	44.8	26.1	24.3
65°	5267.0	1936.2	93.4	69.1	67.2	67.2	56.0	48.5	26.1	11.2	7.5
67.5°	2862.2	1092.2	74.7	52.3	46.7	44.8	35.5	28.0	11.2	1.9	0.0
70°	1125.8	420.1	57.9	35.5	29.9	28.0	18.7	13.1	7.5	0.0	0.0
71°	763.6	289.4	50.4	29.9	24.3	20.5	14.9	11.2	5.6	0.0	0.0
72.5°	436.9	179.2	39.2	22.4	18.7	14.9	11.2	7.5	5.6	0.0	0.0
75°	190.4	91.5	24.3	16.8	13.1	9.3	7.5	5.6	1.9	0.0	0.0
77.5°	97.1	50.4	16.8	13.1	7.5	5.6	3.7	1.9	0.0	0.0	0.0
80°	54.1	26.1	11.2	7.5	5.6	3.7	1.9	1.9	0.0	0.0	0.0
82.5°	29.9	14.9	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.7	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	3.7	0.0	0.0	0.0	0.0	1.9	1.9	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)