

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: P646784

Luminaire Tested: **GALN-SA2C-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6119.9 lumens  
Efficiency: N/A  
Efficacy: 56.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

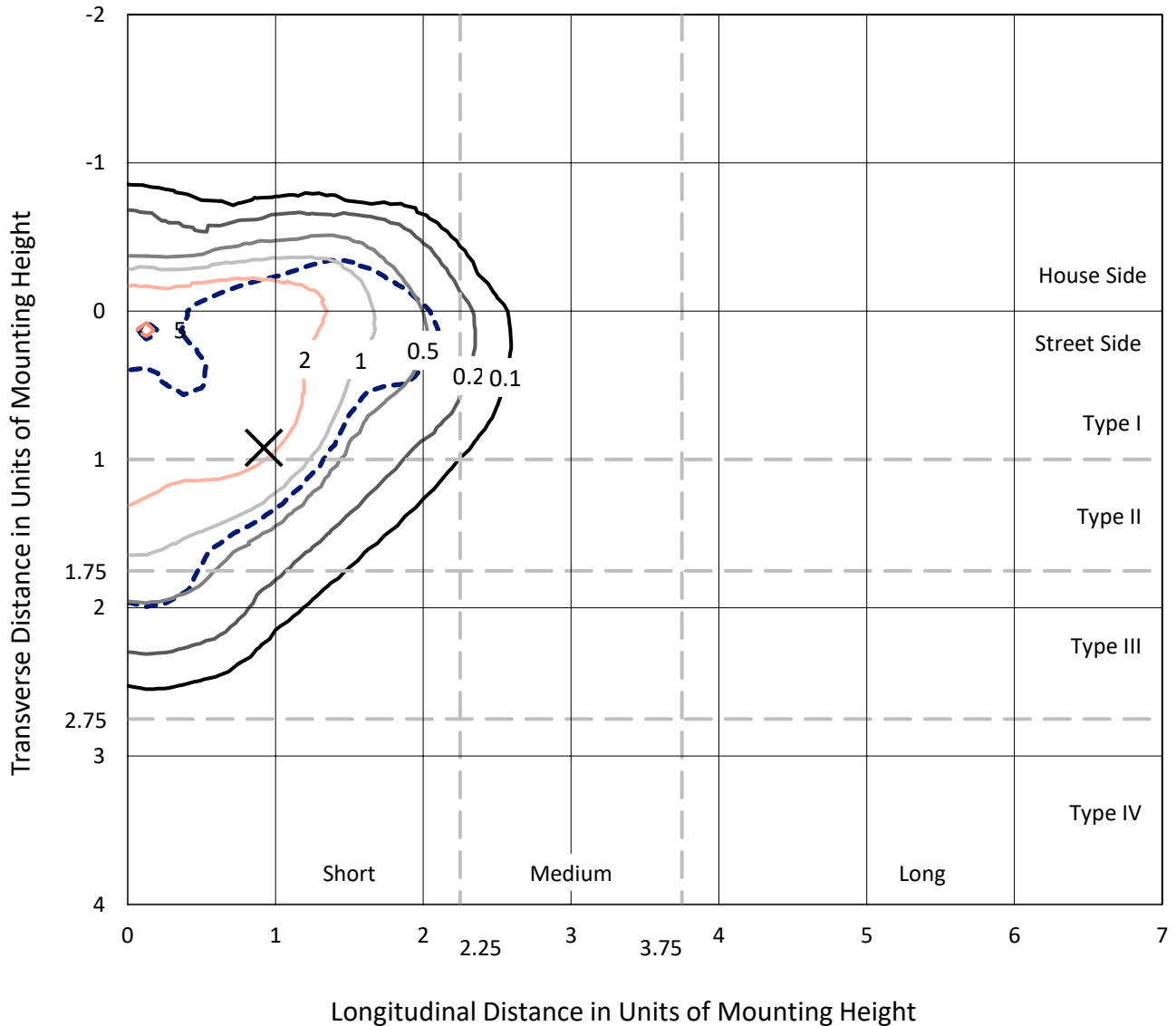
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646784  
 CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

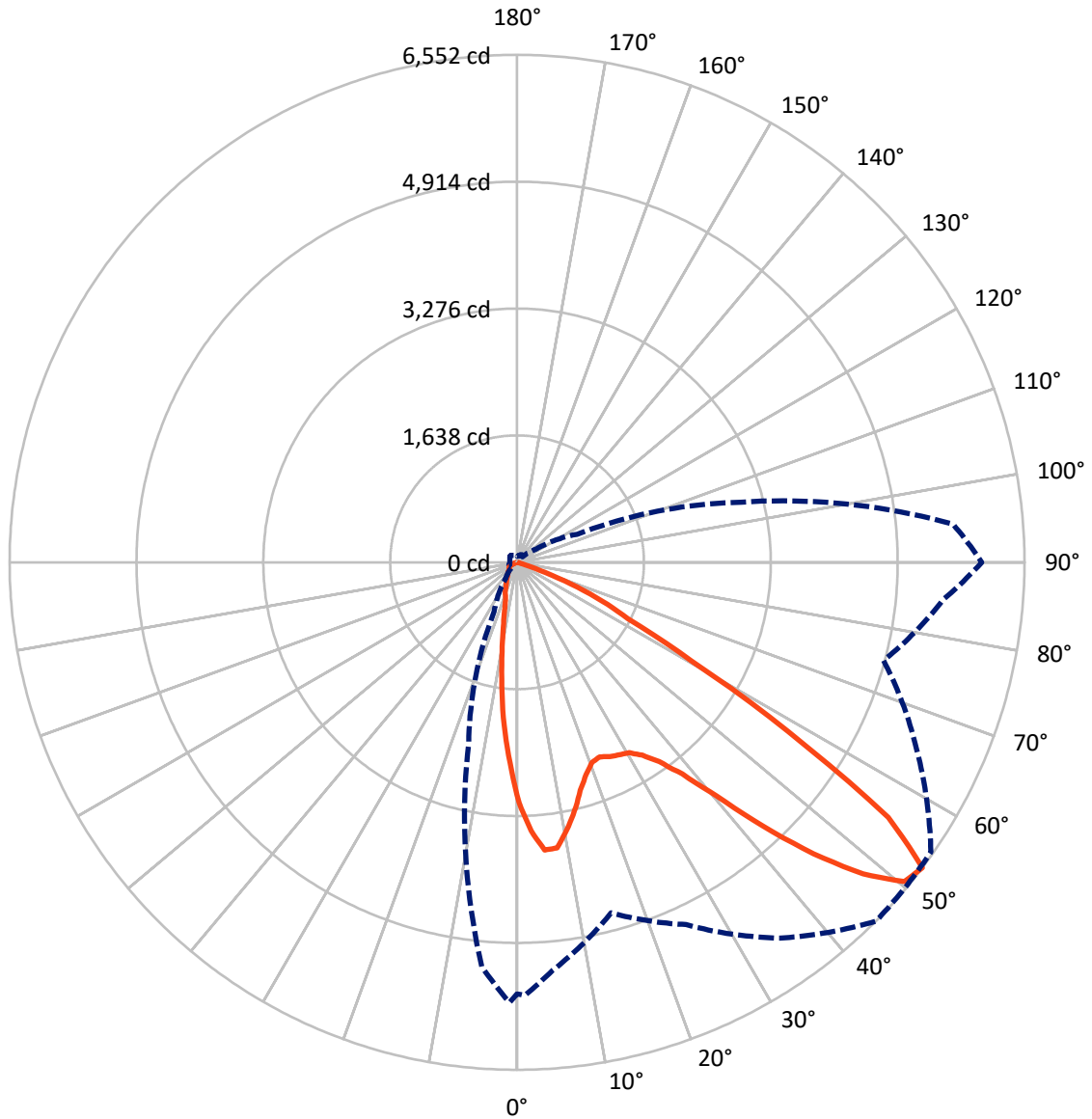
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P646784  
CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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 CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSBK

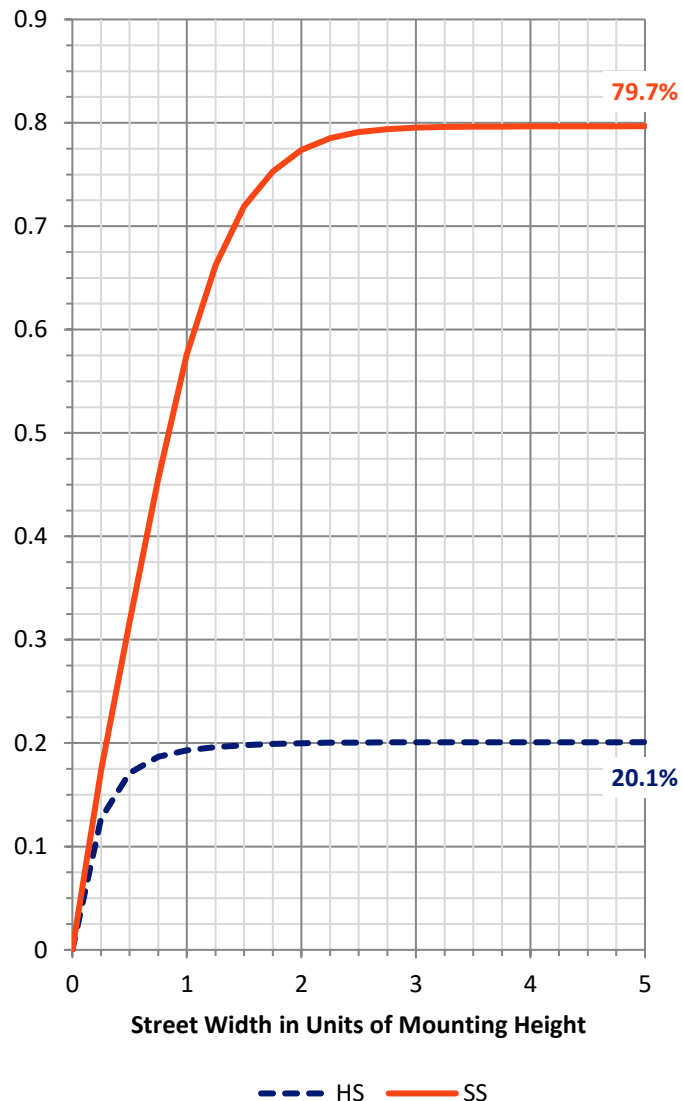
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1242.0	0.0	1242.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	4877.9	0.0	4877.9
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	6119.9	0.0	6119.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.3	3.7
10°-20°	446.5	7.3
20°-30°	679.5	11.1
30°-40°	1015.6	16.6
40°-50°	1446.3	23.6
50°-60°	1554.7	25.4
60°-70°	688.9	11.3
70°-80°	55.7	0.9
80°-90°	6.5	0.1
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°	6119.9	100.0
0°-180°	6119.9	100.0

**Coefficient of Utilization**



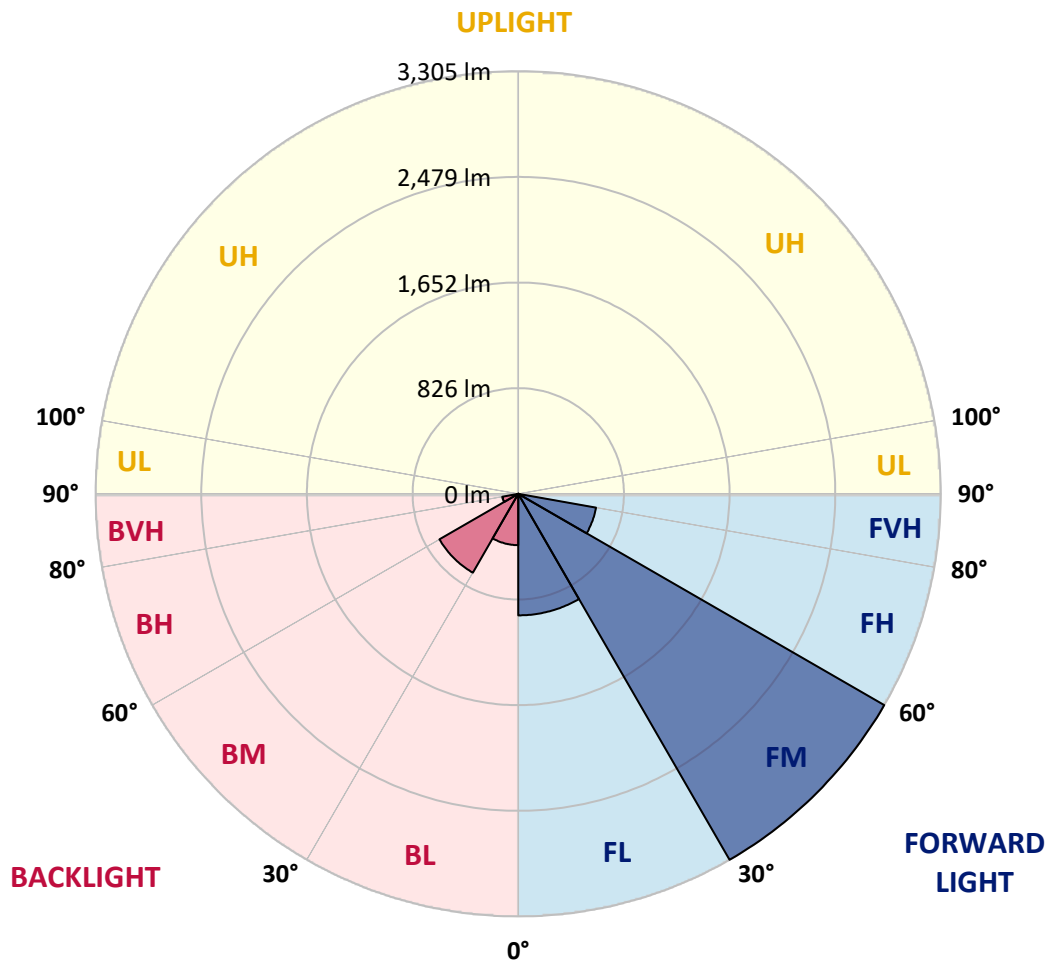
REPORT NUMBER: P646784  
 CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.6	15.5			
FM (30°-60°)	3305.0	54.0			
FH (60°-80°)	617.6	10.1			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	401.7	6.6	B1/500		
BM (30°-60°)	711.5	11.6	B1/1000		
BH (60°-80°)	127.1	2.1	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1**

Type III Short





REPORT NUMBER: P646784

CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1
2.5°	3283.7	3293.3	3346.2	3412.5	3447.3	3526.8	3471.4	3485.8	3455.8	3349.8	3266.8
5°	3183.8	3182.5	3249.9	3413.6	3568.9	3726.6	3731.4	3647.1	3499.1	3336.6	3104.3
7.5°	2882.8	2929.8	2999.6	3260.8	3548.5	3666.4	3723.0	3624.3	3396.8	3164.5	2912.9
10°	2655.3	2679.4	2797.3	3112.7	3323.4	3481.1	3516.0	3459.4	3284.8	2994.7	2713.1
12.5°	2524.1	2536.1	2674.6	2939.4	3162.1	3278.8	3295.6	3322.2	3197.0	2925.0	2586.7
15°	2525.3	2535.0	2721.6	2943.0	3030.8	2999.6	3055.0	3053.7	3107.9	2911.7	2692.7
17.5°	2707.1	2717.9	2886.5	2996.0	2957.5	2884.0	2880.4	2935.8	3050.1	3076.6	2852.7
20°	3020.0	3045.3	3169.3	3163.2	2946.6	2798.5	2757.6	2799.8	3065.8	3216.3	3175.3
22.5°	3441.3	3476.2	3562.9	3396.8	2996.0	2740.8	2727.5	2809.4	3169.3	3528.0	3541.2
25°	3930.0	3989.0	4031.1	3818.1	3171.7	2840.7	2778.1	2918.9	3308.9	3866.2	4007.1
27.5°	4253.8	4315.2	4305.6	4001.1	3289.7	2867.2	2814.2	2945.4	3430.5	3946.9	4250.2
30°	4506.6	4543.9	4611.3	4099.7	3407.6	2941.8	2851.5	3057.4	3470.2	4086.5	4543.9
32.5°	4801.5	4826.7	4831.6	4274.2	3589.4	3035.7	2967.1	3197.0	3646.0	4220.1	4803.9
35°	5098.8	5136.1	5057.9	4489.7	3701.3	3210.2	3159.6	3438.9	3786.7	4358.5	5090.4
37.5°	5421.4	5440.6	5260.1	4578.8	3861.4	3494.3	3466.6	3700.1	4031.1	4608.9	5408.1
40°	5692.2	5710.3	5475.5	4688.4	4029.9	3891.5	3962.5	4198.4	4363.3	4771.4	5567.1
42.5°	5842.7	5884.8	5547.8	4628.2	4368.1	4341.7	4657.0	4740.1	4748.5	4817.1	5709.1
45°	5883.6	5864.4	5428.6	4677.5	4664.3	5081.9	5368.4	5477.9	5131.3	4901.4	5745.2
47.5°	5694.6	5719.9	5252.8	4634.2	5053.0	5642.8	6013.6	6217.0	5416.6	4828.0	5656.1
50°	5541.8	5509.3	5196.3	4602.9	5157.8	5907.7	6479.4	6525.1	5678.9	4918.3	5558.6
52.5°	5571.8	5592.3	5286.6	4685.9	5160.2	5923.3	6551.6	6520.4	5687.4	4897.7	5523.7
55°	5635.6	5545.4	5248.1	4503.0	4814.7	5486.4	5814.9	5766.8	5249.2	4679.9	5438.2
57.5°	4862.9	5002.5	4825.6	4020.3	3951.6	4133.5	4127.4	4275.5	3915.5	4027.5	4950.8
60°	3946.9	3970.9	4037.1	3438.9	2734.8	2672.1	2585.5	2491.6	2634.9	3443.7	4503.0
62.5°	3471.4	3442.5	3678.5	3128.4	1930.7	1616.6	1602.1	1659.9	2033.0	3284.8	4223.7
65°	2522.9	2559.0	2729.9	2427.8	1449.3	1233.8	1212.1	1383.0	1645.4	2632.4	3223.5
67.5°	1540.7	1610.6	1626.1	1497.4	983.4	781.2	749.9	905.1	1188.0	1703.2	1889.8
70°	711.4	795.6	875.1	817.3	569.3	321.4	303.3	380.4	599.5	979.8	1002.6
72.5°	215.5	216.7	303.3	316.6	184.2	72.2	63.8	84.3	203.4	323.8	340.6
75°	15.7	16.8	41.0	47.0	34.9	18.1	19.3	22.9	43.3	72.2	54.2
77.5°	1.2	1.2	1.2	6.0	10.8	12.1	15.7	18.1	22.9	26.5	24.0
80°	1.2	0.0	1.2	4.8	8.5	12.1	14.4	16.8	18.1	20.4	18.1
82.5°	0.0	0.0	0.0	3.6	8.5	12.1	13.2	18.1	20.4	24.0	20.4
85°	0.0	0.0	0.0	3.6	8.5	13.2	12.1	6.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P646784

CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1
2.5°	3281.2	3234.3	3127.1	3073.0	2945.4	2927.3	2802.2	2781.7	2739.6	2716.7	2661.3
5°	3001.9	2945.4	2770.9	2624.0	2453.1	2334.0	2242.4	2159.4	2111.3	2066.7	2087.2
7.5°	2774.5	2609.6	2415.8	2170.2	1972.8	1845.2	1705.6	1591.3	1523.9	1478.1	1489.0
10°	2536.1	2429.0	2159.4	1883.7	1645.4	1555.1	1445.7	1357.7	1262.7	1180.8	1142.3
12.5°	2461.5	2302.6	1964.4	1683.9	1503.4	1415.5	1290.4	1189.2	1067.7	967.8	932.9
15°	2474.7	2321.9	1911.5	1611.7	1398.7	1247.0	1097.8	972.6	839.0	769.1	733.0
17.5°	2690.2	2425.4	1946.4	1535.9	1253.0	1042.4	858.2	699.4	599.5	527.2	511.5
20°	2955.0	2649.3	2021.0	1480.5	1133.9	829.4	627.1	489.9	406.8	394.8	391.2
22.5°	3342.6	3015.3	2181.0	1443.2	988.2	646.4	429.7	356.3	333.4	331.0	332.2
25°	3884.3	3473.9	2355.6	1411.9	878.7	498.3	351.5	302.2	294.9	291.3	297.3
27.5°	4119.0	3750.6	2448.3	1344.5	778.8	449.0	346.6	299.7	279.2	273.3	276.9
30°	4409.1	3934.8	2593.9	1228.9	632.0	369.5	323.8	326.2	316.6	286.5	276.9
32.5°	4794.2	4164.7	2667.4	1147.1	564.5	305.8	237.1	217.8	243.1	248.0	256.4
35°	5041.0	4398.3	2704.6	1098.9	529.6	261.2	201.0	183.0	177.0	178.1	183.0
37.5°	5499.6	4713.6	2751.6	1048.4	503.2	227.5	181.7	164.9	156.4	156.4	161.3
40°	5774.1	4964.0	2815.4	1020.7	476.7	207.0	164.9	150.5	143.2	143.2	145.6
42.5°	5842.7	5087.9	2793.7	1011.1	446.5	202.2	150.5	139.6	131.2	130.0	128.8
45°	5965.4	5277.0	2797.3	1000.3	415.3	184.2	142.0	130.0	118.0	116.7	115.6
47.5°	6100.3	5413.0	2804.5	958.2	385.2	154.1	148.1	120.3	105.9	103.5	103.5
50°	5984.7	5521.2	2867.2	916.0	346.6	125.2	145.6	113.1	93.9	90.3	91.5
52.5°	5999.1	5648.9	2999.6	857.0	298.5	99.9	118.0	107.1	85.4	79.5	80.6
55°	5768.0	5514.0	3017.6	794.4	233.5	77.0	90.3	93.9	72.2	69.8	69.8
57.5°	4965.2	4669.1	2662.5	643.9	154.1	63.8	65.0	81.8	62.6	60.2	61.4
60°	4249.0	3748.3	2142.5	424.9	96.3	50.6	47.0	83.1	55.4	54.2	57.8
62.5°	3873.4	3080.2	1625.0	263.6	66.2	38.5	32.5	67.4	48.2	48.2	52.9
65°	2798.5	2069.2	944.9	138.4	47.0	30.1	24.0	38.5	39.7	41.0	43.3
67.5°	1733.3	1044.8	398.4	67.4	31.3	20.4	15.7	24.0	26.5	26.5	28.9
70°	855.8	416.5	132.4	38.5	24.0	16.8	10.8	13.2	13.2	12.1	13.2
72.5°	264.8	125.2	33.7	24.0	16.8	10.8	6.0	4.8	2.4	0.0	1.2
75°	30.1	24.0	21.7	16.8	10.8	4.8	1.2	0.0	0.0	0.0	0.0
77.5°	18.1	20.4	20.4	16.8	10.8	3.6	0.0	0.0	0.0	0.0	0.0
80°	14.4	15.7	16.8	15.7	9.6	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	18.1	20.4	22.9	20.4	13.2	6.0	2.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.6	1.2	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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





REPORT NUMBER: P646784

CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1
2.5°	2638.5	2612.0	2649.3	2593.9	2592.7	2593.9	2578.3	2563.9	2586.7	2648.1	2654.1
5°	2013.7	2070.3	2088.4	2147.4	2114.9	2066.7	2076.4	2043.9	2123.3	2158.2	2130.5
7.5°	1466.1	1462.5	1584.0	1591.3	1607.0	1608.1	1605.7	1541.9	1476.9	1491.4	1534.7
10°	1137.5	1076.1	1135.0	1129.1	1167.5	1156.7	1172.4	1103.8	1126.7	1126.7	1154.3
12.5°	926.8	861.8	851.0	835.4	851.0	857.0	863.0	849.8	888.3	906.4	925.7
15°	707.8	671.7	662.0	632.0	636.7	653.6	668.1	674.1	662.0	689.7	692.1
17.5°	514.0	512.8	518.8	517.6	512.8	509.2	507.9	492.3	487.5	489.9	499.6
20°	390.0	399.6	420.1	440.5	451.4	438.2	420.1	393.6	382.8	385.2	386.4
22.5°	333.4	347.9	375.5	398.4	409.3	385.2	352.7	329.8	325.0	323.8	322.6
25°	302.2	319.0	339.4	346.6	345.5	331.0	306.9	297.3	294.9	292.5	281.6
27.5°	285.2	291.3	294.9	303.3	306.9	297.3	291.3	276.9	274.4	274.4	267.2
30°	275.6	272.0	276.9	270.8	275.6	268.4	269.6	269.6	263.6	266.0	266.0
32.5°	256.4	257.6	257.6	245.5	249.2	240.8	249.2	256.4	257.6	258.8	268.4
35°	187.8	209.5	220.3	220.3	223.9	217.8	216.7	208.2	197.4	186.6	181.7
37.5°	164.9	173.4	187.8	196.2	202.2	197.4	186.6	173.4	167.3	162.5	157.7
40°	146.8	154.1	163.7	173.4	185.3	179.4	162.5	156.4	149.2	149.2	144.5
42.5°	132.4	136.0	142.0	156.4	169.8	157.7	145.6	140.9	137.2	136.0	134.8
45°	119.2	120.3	126.4	138.4	154.1	142.0	130.0	123.9	125.2	126.4	125.2
47.5°	107.1	109.5	113.1	127.6	137.2	131.2	118.0	114.3	114.3	114.3	115.6
50°	92.7	98.7	105.9	118.0	125.2	121.6	110.7	105.9	103.5	103.5	104.7
52.5°	83.1	87.9	97.5	112.0	121.6	115.6	104.7	97.5	92.7	91.5	93.9
55°	72.2	80.6	96.3	107.1	120.3	114.3	102.3	93.9	85.4	84.3	84.3
57.5°	65.0	78.2	92.7	105.9	116.7	112.0	102.3	91.5	80.6	79.5	79.5
60°	61.4	75.8	90.3	102.3	116.7	109.5	101.1	89.1	77.0	77.0	75.8
62.5°	57.8	71.0	85.4	97.5	112.0	105.9	97.5	85.4	73.4	73.4	71.0
65°	48.2	61.4	71.0	81.8	97.5	91.5	83.1	74.6	65.0	62.6	63.8
67.5°	33.7	42.1	51.8	62.6	72.2	69.8	66.2	60.2	51.8	50.6	49.3
70°	16.8	22.9	31.3	42.1	50.6	48.2	45.7	41.0	36.1	34.9	34.9
72.5°	2.4	7.2	13.2	19.3	26.5	27.7	26.5	25.3	24.0	22.9	24.0
75°	0.0	0.0	0.0	4.8	10.8	13.2	15.7	18.1	18.1	15.7	19.3
77.5°	0.0	0.0	0.0	0.0	1.2	6.0	12.1	15.7	19.3	16.8	22.9
80°	0.0	0.0	0.0	0.0	1.2	7.2	12.1	16.8	19.3	16.8	24.0
82.5°	0.0	0.0	0.0	0.0	1.2	8.5	12.1	15.7	18.1	16.8	21.7
85°	0.0	0.0	0.0	0.0	3.6	7.2	4.8	2.4	1.2	1.2	3.6
87.5°	0.0	0.0	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



REPORT NUMBER: P646784

CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1	3103.1
2.5°	2687.8	2773.3	2864.8	2899.7	3008.0	3089.9	3145.2	3264.4	3282.4	3283.7
5°	2159.4	2202.7	2359.2	2432.6	2593.9	2719.1	2852.7	3045.3	3174.1	3183.8
7.5°	1534.7	1655.0	1721.3	1912.6	2111.3	2307.4	2506.1	2729.9	2879.2	2882.8
10°	1234.9	1313.2	1431.2	1574.4	1741.7	1941.5	2206.3	2466.4	2618.0	2655.3
12.5°	994.3	1131.4	1266.3	1414.3	1541.9	1692.4	1977.6	2324.3	2449.5	2524.1
15°	765.5	890.7	1049.6	1223.0	1367.4	1568.4	1893.4	2289.4	2500.0	2525.3
17.5°	564.5	676.4	823.3	987.0	1203.7	1489.0	1907.9	2466.4	2664.9	2707.1
20°	405.7	470.7	586.2	776.3	1052.0	1396.2	1922.3	2645.7	2947.8	3020.0
22.5°	321.4	347.9	423.7	592.2	882.3	1298.8	2024.6	2988.7	3336.6	3441.3
25°	279.2	293.7	329.8	467.1	775.2	1289.1	2188.3	3400.4	3854.2	3930.0
27.5°	269.6	272.0	303.3	428.5	717.4	1225.3	2250.9	3692.9	4176.8	4253.8
30°	284.1	322.6	325.0	362.3	610.3	1098.9	2283.4	3975.8	4450.0	4506.6
32.5°	245.5	233.5	241.9	280.5	536.8	1025.6	2344.8	4222.5	4761.7	4801.5
35°	170.9	179.4	198.6	243.1	469.4	948.5	2360.4	4494.6	5057.9	5098.8
37.5°	157.7	162.5	178.1	207.0	412.9	905.1	2338.7	4693.1	5364.8	5421.4
40°	146.8	152.8	161.3	187.8	370.8	857.0	2308.7	4872.5	5552.6	5692.2
42.5°	138.4	143.2	150.5	179.4	334.7	808.8	2266.6	5125.3	5721.1	5842.7
45°	128.8	136.0	144.5	174.5	314.1	776.3	2235.2	5109.6	5818.6	5883.6
47.5°	119.2	131.2	140.9	162.5	308.1	760.8	2248.5	5050.7	5739.2	5694.6
50°	109.5	125.2	142.0	134.8	293.7	729.4	2264.1	5131.3	5550.1	5541.8
52.5°	101.1	119.2	132.4	110.7	261.2	699.4	2415.8	5237.3	5683.8	5571.8
55°	89.1	107.1	105.9	89.1	211.9	676.4	2535.0	5239.6	5593.5	5635.6
57.5°	80.6	95.1	83.1	74.6	156.4	565.7	2341.2	4393.4	4788.2	4862.9
60°	74.6	92.7	62.6	59.0	102.3	408.0	2043.9	3402.8	3806.0	3946.9
62.5°	68.6	87.9	49.3	48.2	71.0	290.1	1680.3	2847.9	3280.1	3471.4
65°	60.2	62.6	39.7	37.3	50.6	156.4	1023.1	1960.8	2451.9	2522.9
67.5°	49.3	48.2	32.5	30.1	33.7	75.8	451.4	982.2	1421.5	1540.7
70°	39.7	39.7	27.7	24.0	24.0	34.9	118.0	391.2	642.8	711.4
72.5°	28.9	30.1	21.7	19.3	18.1	16.8	19.3	78.2	168.5	215.5
75°	25.3	26.5	21.7	16.8	13.2	10.8	8.5	7.2	9.6	15.7
77.5°	27.7	27.7	22.9	15.7	12.1	8.5	4.8	2.4	2.4	1.2
80°	34.9	36.1	30.1	20.4	14.4	9.6	6.0	2.4	1.2	1.2
82.5°	37.3	41.0	33.7	25.3	18.1	10.8	6.0	1.2	0.0	0.0
85°	9.6	15.7	26.5	22.9	18.1	10.8	6.0	1.2	0.0	0.0
87.5°	0.0	1.2	3.6	3.6	4.8	4.8	3.6	1.2	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

(END OF REPORT)