

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: P647114

Luminaire Tested: **GALN-SA8C-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647114  
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-SA8C-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 24574.5 lumens  
Efficiency: N/A  
Efficacy: 57.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

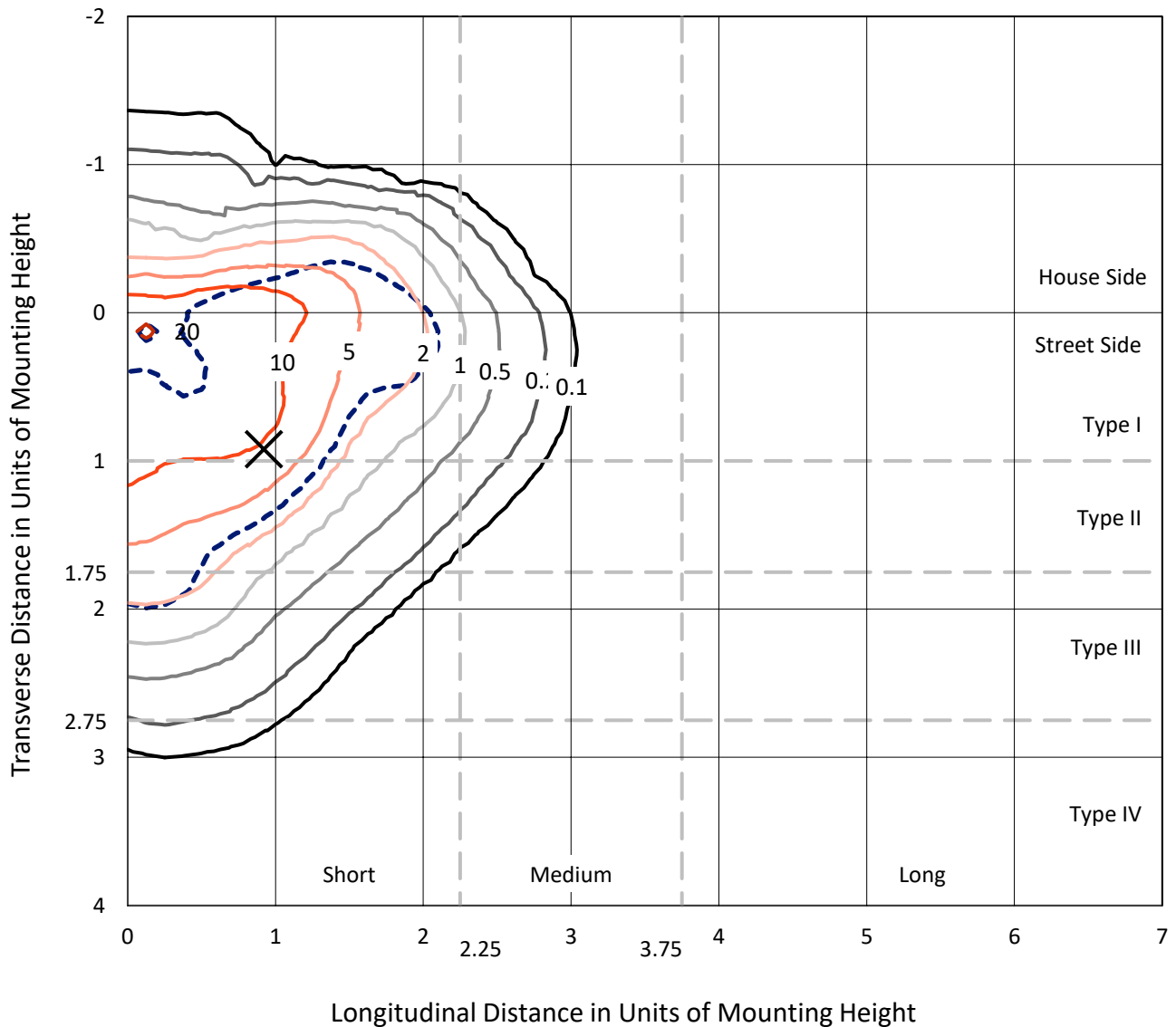
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647114  
 CATALOG NUMBER: GALN-SA8C-835-U-SLL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

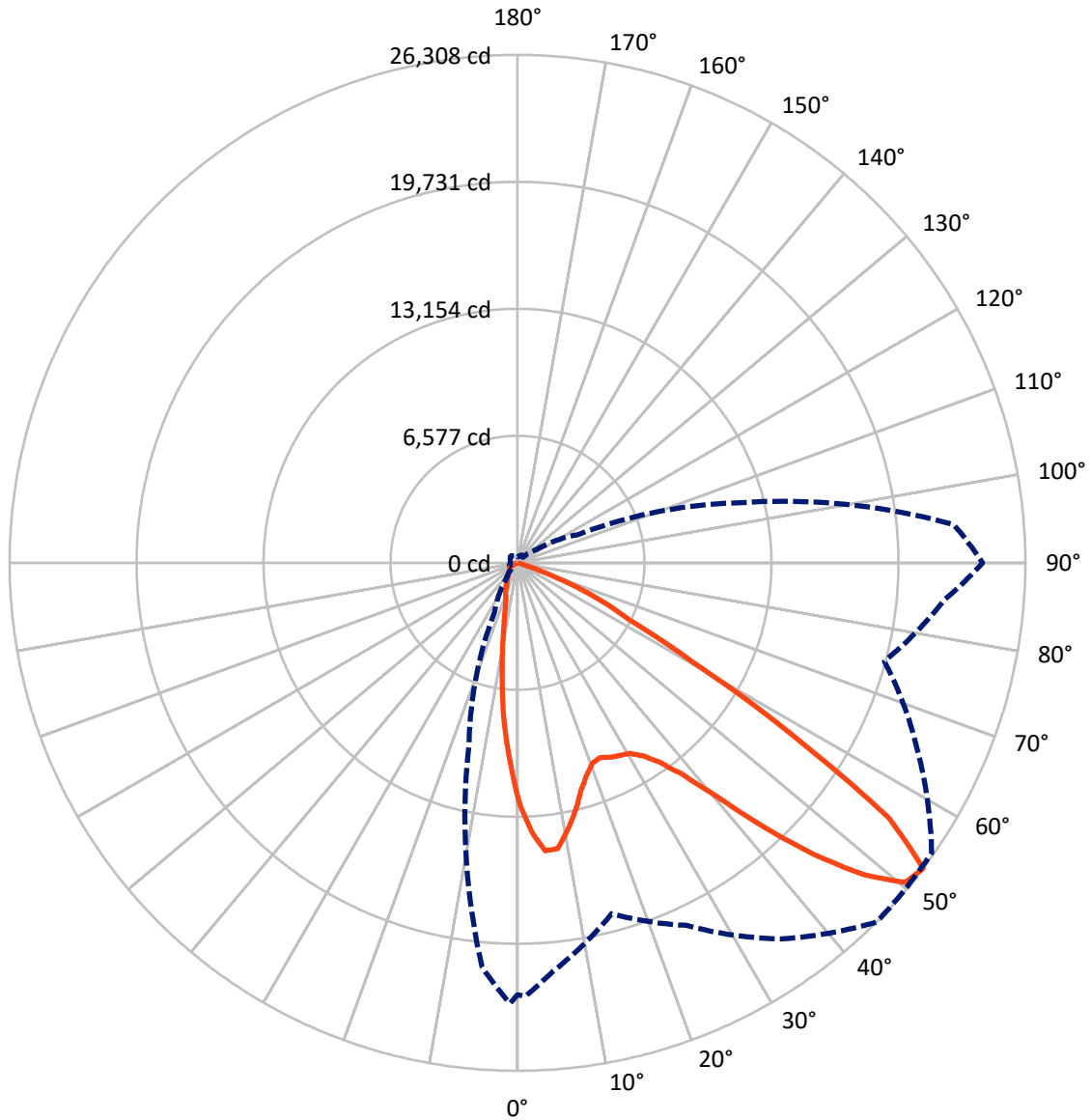
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P647114  
CATALOG NUMBER: GALN-SA8C-835-U-SLL-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P647114  
 CATALOG NUMBER: GALN-SA8C-835-U-SLL-GRSBK

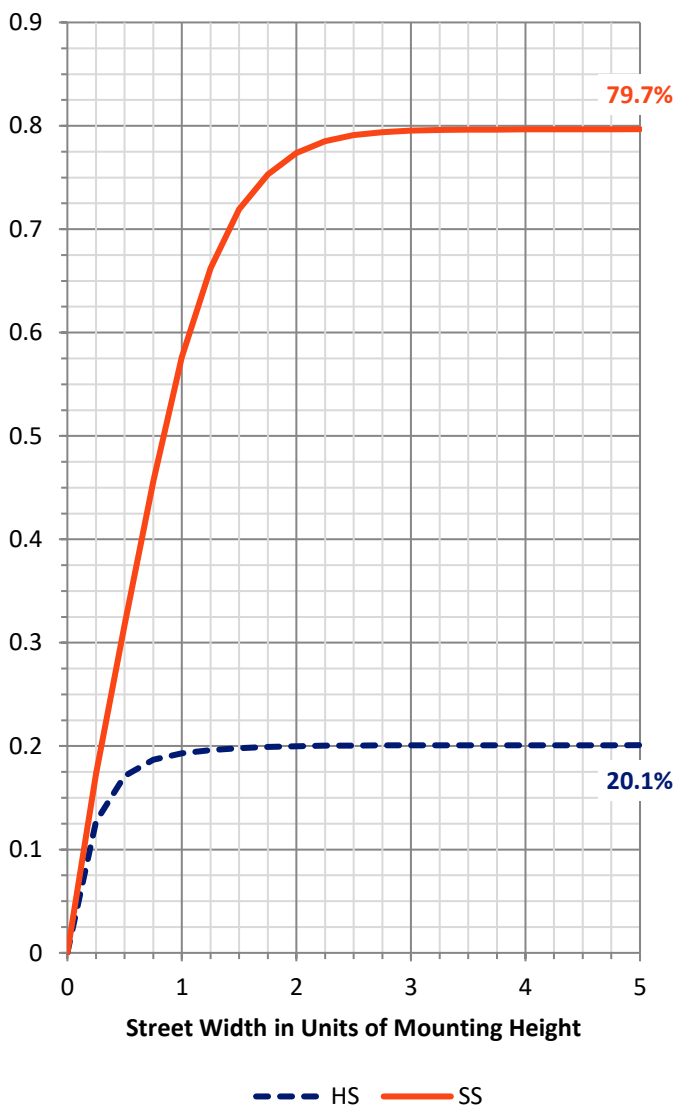
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4987.4	0.0	4987.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	19587.1	0.0	19587.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	24574.5	0.0	24574.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	908.7	3.7
10°-20°	1792.9	7.3
20°-30°	2728.4	11.1
30°-40°	4078.0	16.6
40°-50°	5807.4	23.6
50°-60°	6242.8	25.4
60°-70°	2766.3	11.3
70°-80°	223.8	0.9
80°-90°	26.1	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°	24574.5	100.0
0°-180°	24574.5	100.0

**Coefficient of Utilization**



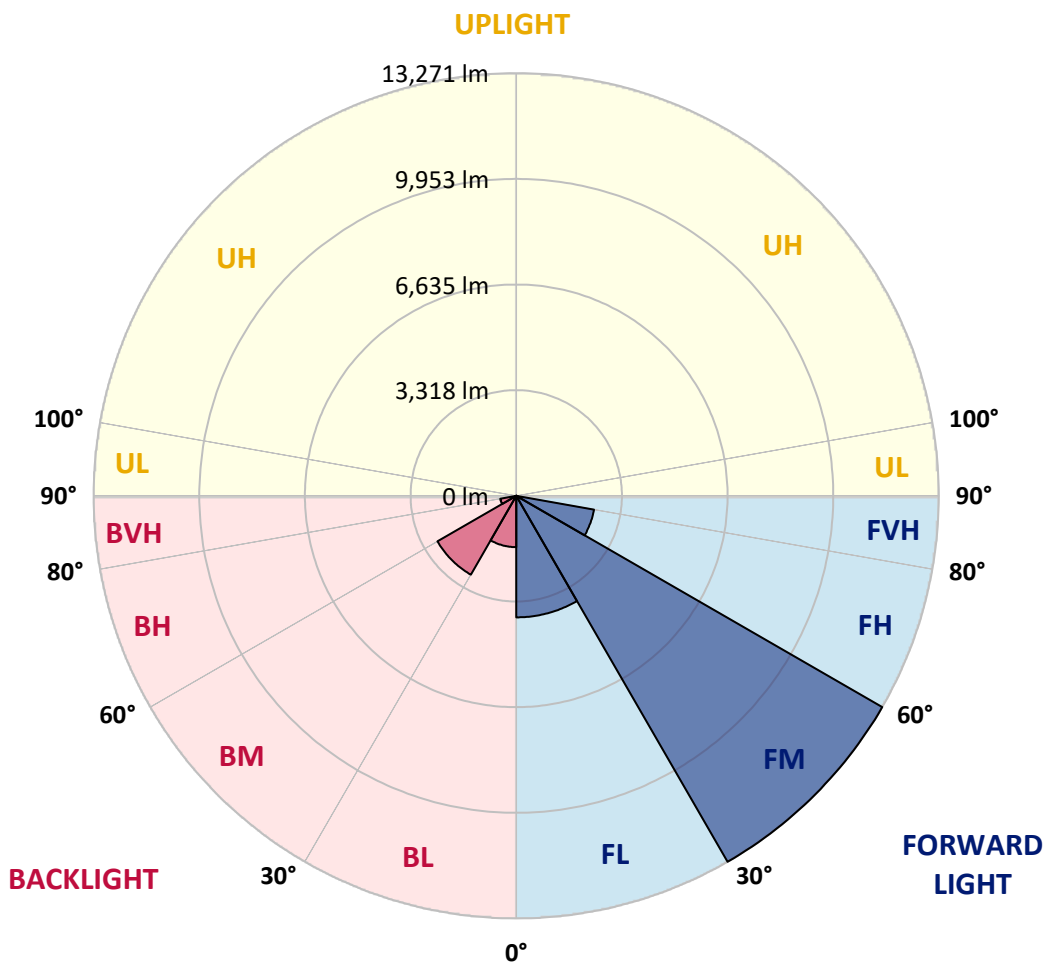
REPORT NUMBER: P647114  
 CATALOG NUMBER: GALN-SA8C-835-U-SLL-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3816.9	15.5			
FM (30°-60°)	13271.0	54.0			
FH (60°-80°)	2479.9	10.1			G2/5000
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1613.1	6.6	B3/2500		
BM (30°-60°)	2857.2	11.6	B3/5000		
BH (60°-80°)	510.3	2.1	B2/1000		G2/1000
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type III Short





REPORT NUMBER: P647114

CATALOG NUMBER: GALN-SA8C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4
2.5°	13185.4	13224.1	13436.7	13702.6	13842.7	14161.7	13939.4	13997.4	13876.6	13451.2	13117.8
5°	12784.2	12779.4	13050.0	13707.4	14330.9	14964.1	14983.4	14645.1	14050.5	13398.1	12465.2
7.5°	11575.9	11764.4	12044.7	13093.6	14248.7	14722.4	14949.6	14553.2	13639.7	12706.9	11696.7
10°	10662.3	10759.0	11232.7	12499.0	13344.9	13978.0	14118.2	13891.0	13190.3	12025.4	10894.3
12.5°	10135.5	10183.9	10739.7	11803.0	12697.2	13166.1	13233.7	13340.0	12837.4	11745.1	10386.9
15°	10140.4	10179.1	10928.3	11817.6	12170.4	12044.7	12267.0	12262.2	12479.7	11691.9	10812.2
17.5°	10870.2	10913.7	11590.4	12030.2	11875.5	11580.7	11566.2	11788.5	12247.7	12354.1	11455.1
20°	12126.9	12228.4	12726.3	12702.1	11832.1	11237.5	11073.2	11242.4	12310.6	12914.7	12750.4
22.5°	13818.5	13958.7	14306.7	13639.7	12030.2	11005.5	10952.4	11281.1	12726.3	14166.6	14219.7
25°	15780.9	16017.8	16186.9	15331.4	12735.9	11406.7	11155.4	11720.9	13286.9	15524.8	16090.3
27.5°	17081.1	17327.6	17288.9	16066.1	13209.5	11513.1	11300.4	11827.2	13775.1	15848.5	17066.6
30°	18096.1	18245.9	18516.6	16462.4	13683.2	11812.7	11450.2	12276.7	13934.6	16409.3	18245.9
32.5°	19280.3	19381.8	19401.1	17163.3	14413.1	12189.7	11914.2	12837.4	14640.2	16945.8	19289.9
35°	20474.1	20623.9	20309.8	18028.4	14862.6	12890.5	12687.6	13808.9	15205.7	17501.6	20440.3
37.5°	21769.4	21846.8	21121.7	18386.1	15505.4	14031.2	13920.1	14857.7	16186.9	18506.9	21716.3
40°	22856.9	22929.5	21987.0	18825.9	16182.1	15626.3	15911.4	16858.8	17520.9	19159.4	22354.3
42.5°	23461.1	23630.3	22276.9	18584.3	17540.2	17433.9	18700.2	19033.8	19067.6	19343.1	22924.6
45°	23625.5	23548.1	21798.4	18782.4	18729.3	20406.4	21556.8	21996.6	20604.6	19681.4	23069.6
47.5°	22866.6	22968.1	21092.8	18608.4	20290.4	22658.8	24147.4	24964.3	21750.1	19386.6	22711.9
50°	22252.8	22122.3	20865.6	18482.7	20710.9	23722.1	26017.9	26201.6	22803.8	19749.1	22320.4
52.5°	22373.6	22455.7	21228.1	18816.3	20720.6	23785.0	26307.9	26182.3	22837.6	19666.9	22180.3
55°	22629.8	22267.3	21073.4	18081.6	19333.4	22030.4	23349.9	23156.6	21078.3	18792.1	21837.1
57.5°	19526.8	20087.4	19376.9	16143.4	15867.9	16597.7	16573.6	17168.1	15722.9	16172.4	19879.6
60°	15848.5	15945.2	16211.1	13808.9	10981.4	10730.1	10382.0	10005.0	10580.2	13828.2	18081.6
62.5°	13939.4	13823.4	14770.7	12561.9	7752.7	6491.2	6433.2	6665.2	8163.6	13190.3	16960.2
65°	10130.7	10275.7	10962.1	9748.9	5819.3	4954.2	4867.2	5553.5	6607.2	10570.6	12943.7
67.5°	6186.7	6467.0	6529.8	6012.7	3948.8	3136.9	3011.2	3634.7	4770.5	6839.2	7588.4
70°	2856.5	3194.9	3513.9	3281.9	2286.2	1290.5	1218.0	1527.3	2407.0	3934.3	4026.2
72.5°	865.1	870.0	1218.0	1271.2	739.5	290.0	256.2	338.3	816.8	1300.2	1367.8
75°	62.8	67.7	164.4	188.5	140.2	72.5	77.4	91.8	174.0	290.0	217.5
77.5°	4.9	4.9	4.9	24.2	43.5	48.3	62.8	72.5	91.8	106.3	96.7
80°	4.9	0.0	4.9	19.3	33.8	48.3	58.0	67.7	72.5	82.1	72.5
82.5°	0.0	0.0	0.0	14.5	33.8	48.3	53.2	72.5	82.1	96.7	82.1
85°	0.0	0.0	0.0	14.5	33.8	53.2	48.3	24.2	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: P647114

CATALOG NUMBER: GALN-SA8C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4
2.5°	13175.7	12987.2	12557.0	12339.5	11827.2	11754.7	11252.0	11169.9	11000.7	10908.9	10686.5
5°	12054.4	11827.2	11126.4	10536.8	9850.4	9371.9	9004.6	8671.0	8477.7	8298.9	8381.1
7.5°	11140.9	10478.7	9700.5	8714.6	7921.8	7409.5	6848.9	6389.7	6119.1	5935.4	5978.8
10°	10183.9	9753.7	8671.0	7564.2	6607.2	6244.7	5804.8	5452.0	5070.2	4741.5	4586.9
12.5°	9884.2	9246.2	7888.0	6761.8	6036.9	5684.0	5181.3	4775.4	4287.2	3886.0	3745.9
15°	9937.4	9323.6	7675.4	6471.9	5616.4	5007.4	4408.1	3905.4	3368.9	3088.5	2943.5
17.5°	10802.6	9739.2	7815.5	6167.4	5031.6	4185.7	3446.2	2808.2	2407.0	2117.0	2054.2
20°	11865.9	10638.2	8115.2	5945.0	4553.0	3330.2	2518.2	1967.2	1633.7	1585.3	1570.9
22.5°	13422.3	12107.5	8758.0	5795.2	3968.2	2595.5	1725.5	1430.7	1338.9	1329.1	1334.0
25°	15597.2	13949.1	9458.9	5669.5	3528.4	2001.0	1411.4	1213.2	1184.2	1169.6	1193.8
27.5°	16539.8	15060.8	9831.0	5398.9	3127.1	1802.9	1392.0	1203.5	1121.3	1097.1	1111.7
30°	17704.6	15800.2	10415.9	4934.9	2537.5	1483.9	1300.2	1309.8	1271.2	1150.3	1111.7
32.5°	19251.2	16723.4	10710.7	4606.2	2266.9	1227.7	952.2	874.8	976.3	995.7	1029.5
35°	20242.1	17661.1	10860.5	4412.8	2126.7	1048.8	807.2	734.7	710.5	715.3	734.7
37.5°	22083.6	18927.5	11049.1	4209.9	2020.4	913.5	729.8	662.2	628.4	628.4	647.7
40°	23185.6	19932.8	11305.2	4098.7	1914.0	831.3	662.2	604.2	575.2	575.2	584.8
42.5°	23461.1	20430.6	11218.2	4060.0	1793.1	812.0	604.2	560.7	526.8	522.0	517.2
45°	23954.1	21189.5	11232.7	4016.6	1667.5	739.5	570.3	522.0	473.6	468.9	464.0
47.5°	24495.5	21735.6	11261.7	3847.3	1546.7	618.6	594.5	483.3	425.3	415.7	415.7
50°	24031.4	22170.6	11513.1	3678.2	1392.0	502.7	584.8	454.3	377.0	362.5	367.3
52.5°	24089.5	22683.0	12044.7	3441.4	1198.7	401.1	473.6	430.2	343.2	319.0	323.8
55°	23161.5	22141.6	12117.2	3190.0	937.6	309.4	362.5	377.0	290.0	280.3	280.3
57.5°	19937.6	18748.6	10691.4	2585.9	618.6	256.2	261.0	328.7	251.3	241.6	246.5
60°	17061.7	15051.1	8603.4	1706.2	386.6	203.0	188.5	333.5	222.4	217.5	232.0
62.5°	15553.7	12368.6	6525.1	1058.5	265.8	154.6	130.5	270.7	193.3	193.3	212.7
65°	11237.5	8308.6	3794.2	555.9	188.5	120.8	96.7	154.6	159.5	164.4	174.0
67.5°	6960.0	4195.3	1599.8	270.7	125.7	82.1	62.8	96.7	106.3	106.3	116.0
70°	3436.5	1672.3	531.7	154.6	96.7	67.7	43.5	53.2	53.2	48.3	53.2
72.5°	1063.3	502.7	135.3	96.7	67.7	43.5	24.2	19.3	9.6	0.0	4.9
75°	120.8	96.7	87.0	67.7	43.5	19.3	4.9	0.0	0.0	0.0	0.0
77.5°	72.5	82.1	82.1	67.7	43.5	14.5	0.0	0.0	0.0	0.0	0.0
80°	58.0	62.8	67.7	62.8	38.7	19.3	0.0	0.0	0.0	0.0	0.0
82.5°	72.5	82.1	91.8	82.1	53.2	24.2	9.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	14.5	4.9	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: P647114

CATALOG NUMBER: GALN-SA8C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4
2.5°	10594.7	10488.4	10638.2	10415.9	10411.1	10415.9	10353.1	10295.0	10386.9	10633.4	10657.6
5°	8086.2	8313.3	8385.9	8622.7	8492.2	8298.9	8337.5	8207.0	8526.0	8666.2	8555.1
7.5°	5887.1	5872.5	6360.7	6389.7	6452.5	6457.4	6447.7	6191.5	5930.5	5988.5	6162.5
10°	4567.6	4321.0	4557.8	4533.7	4688.4	4644.8	4707.7	4432.2	4524.0	4524.0	4635.2
12.5°	3721.7	3460.7	3417.2	3354.4	3417.2	3441.4	3465.5	3412.3	3567.0	3639.5	3716.8
15°	2842.0	2697.0	2658.4	2537.5	2556.8	2624.5	2682.5	2706.7	2658.4	2769.5	2779.2
17.5°	2063.8	2059.0	2083.2	2078.3	2059.0	2044.5	2039.7	1976.8	1957.5	1967.2	2005.8
20°	1566.0	1604.7	1686.8	1769.0	1812.5	1759.3	1686.8	1580.5	1537.0	1546.7	1551.5
22.5°	1338.9	1396.9	1508.0	1599.8	1643.4	1546.7	1416.2	1324.4	1305.0	1300.2	1295.3
25°	1213.2	1280.8	1363.0	1392.0	1387.2	1329.1	1232.5	1193.8	1184.2	1174.5	1131.0
27.5°	1145.5	1169.6	1184.2	1218.0	1232.5	1193.8	1169.6	1111.7	1102.0	1102.0	1073.0
30°	1106.8	1092.4	1111.7	1087.5	1106.8	1077.8	1082.7	1082.7	1058.5	1068.2	1068.2
32.5°	1029.5	1034.3	1034.3	986.0	1000.5	966.7	1000.5	1029.5	1034.3	1039.2	1077.8
35°	754.0	841.0	884.5	884.5	899.0	874.8	870.0	836.2	792.7	749.2	729.8
37.5°	662.2	696.0	754.0	787.9	812.0	792.7	749.2	696.0	671.8	652.5	633.1
40°	589.7	618.6	657.3	696.0	744.3	720.2	652.5	628.4	599.3	599.3	580.0
42.5°	531.7	546.1	570.3	628.4	681.5	633.1	584.8	565.5	551.0	546.1	541.4
45°	478.5	483.3	507.5	555.9	618.6	570.3	522.0	497.8	502.7	507.5	502.7
47.5°	430.2	439.8	454.3	512.3	551.0	526.8	473.6	459.2	459.2	459.2	464.0
50°	372.2	396.4	425.3	473.6	502.7	488.2	444.7	425.3	415.7	415.7	420.5
52.5°	333.5	352.8	391.5	449.5	488.2	464.0	420.5	391.5	372.2	367.3	377.0
55°	290.0	323.8	386.6	430.2	483.3	459.2	410.8	377.0	343.2	338.3	338.3
57.5°	261.0	314.1	372.2	425.3	468.9	449.5	410.8	367.3	323.8	319.0	319.0
60°	246.5	304.5	362.5	410.8	468.9	439.8	406.0	357.7	309.4	309.4	304.5
62.5°	232.0	285.2	343.2	391.5	449.5	425.3	391.5	343.2	294.8	294.8	285.2
65°	193.3	246.5	285.2	328.7	391.5	367.3	333.5	299.7	261.0	251.3	256.2
67.5°	135.3	169.2	207.8	251.3	290.0	280.3	265.8	241.6	207.8	203.0	198.2
70°	67.7	91.8	125.7	169.2	203.0	193.3	183.7	164.4	145.0	140.2	140.2
72.5°	9.6	29.0	53.2	77.4	106.3	111.2	106.3	101.5	96.7	91.8	96.7
75°	0.0	0.0	0.0	19.3	43.5	53.2	62.8	72.5	72.5	62.8	77.4
77.5°	0.0	0.0	0.0	0.0	4.9	24.2	48.3	62.8	77.4	67.7	91.8
80°	0.0	0.0	0.0	0.0	4.9	29.0	48.3	67.7	77.4	67.7	96.7
82.5°	0.0	0.0	0.0	0.0	4.9	33.8	48.3	62.8	72.5	67.7	87.0
85°	0.0	0.0	0.0	0.0	14.5	29.0	19.3	9.6	4.9	4.9	14.5
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: P647114

CATALOG NUMBER: GALN-SA8C-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4	12460.4
2.5°	10792.9	11136.1	11503.4	11643.5	12078.6	12407.3	12629.6	13108.0	13180.6	13185.4
5°	8671.0	8845.0	9473.4	9768.2	10415.9	10918.5	11455.1	12228.4	12745.6	12784.2
7.5°	6162.5	6645.9	6911.7	7680.2	8477.7	9265.6	10063.0	10962.1	11561.4	11575.9
10°	4959.1	5273.2	5746.8	6322.0	6993.8	7796.2	8859.6	9903.5	10512.6	10662.3
12.5°	3992.4	4543.4	5084.7	5679.2	6191.5	6795.7	7941.2	9333.2	9835.9	10135.5
15°	3074.0	3576.7	4214.7	4910.7	5490.7	6297.8	7602.9	9193.0	10038.8	10140.4
17.5°	2266.9	2716.4	3306.0	3963.4	4833.4	5978.8	7660.9	9903.5	10701.0	10870.2
20°	1628.9	1889.8	2353.9	3117.5	4224.4	5606.7	7718.9	10623.7	11836.9	12126.9
22.5°	1290.5	1396.9	1701.3	2378.0	3542.8	5215.2	8129.7	12001.2	13398.1	13818.5
25°	1121.3	1179.4	1324.4	1875.4	3112.7	5176.5	8787.1	13654.3	15476.4	15780.9
27.5°	1082.7	1092.4	1218.0	1720.6	2880.7	4920.4	9038.4	14828.8	16771.8	17081.1
30°	1140.7	1295.3	1305.0	1454.8	2450.5	4412.8	9168.9	15964.6	17868.9	18096.1
32.5°	986.0	937.6	971.5	1126.2	2155.7	4118.0	9415.3	16955.4	19120.8	19280.3
35°	686.3	720.2	797.5	976.3	1885.0	3808.7	9478.2	18047.8	20309.8	20474.1
37.5°	633.1	652.5	715.3	831.3	1657.8	3634.7	9391.2	18845.2	21542.3	21769.4
40°	589.7	613.9	647.7	754.0	1488.6	3441.4	9270.4	19565.4	22296.2	22856.9
42.5°	555.9	575.2	604.2	720.2	1343.7	3248.0	9101.2	20580.5	22972.9	23461.1
45°	517.2	546.1	580.0	700.9	1261.5	3117.5	8975.5	20517.6	23364.4	23625.5
47.5°	478.5	526.8	565.5	652.5	1237.4	3054.7	9028.7	20280.8	23045.4	22866.6
50°	439.8	502.7	570.3	541.4	1179.4	2929.0	9091.6	20604.6	22286.6	22252.8
52.5°	406.0	478.5	531.7	444.7	1048.8	2808.2	9700.5	21029.9	22823.1	22373.6
55°	357.7	430.2	425.3	357.7	850.7	2716.4	10179.1	21039.6	22460.6	22629.8
57.5°	323.8	381.9	333.5	299.7	628.4	2271.6	9400.9	17641.8	19227.1	19526.8
60°	299.7	372.2	251.3	236.9	410.8	1638.5	8207.0	13663.9	15283.1	15848.5
62.5°	275.5	352.8	198.2	193.3	285.2	1164.9	6747.3	11435.7	13170.9	13939.4
65°	241.6	251.3	159.5	149.9	203.0	628.4	4108.3	7873.5	9845.5	10130.7
67.5°	198.2	193.3	130.5	120.8	135.3	304.5	1812.5	3944.0	5708.2	6186.7
70°	159.5	159.5	111.2	96.7	96.7	140.2	473.6	1570.9	2581.0	2856.5
72.5°	116.0	120.8	87.0	77.4	72.5	67.7	77.4	314.1	676.7	865.1
75°	101.5	106.3	87.0	67.7	53.2	43.5	33.8	29.0	38.7	62.8
77.5°	111.2	111.2	91.8	62.8	48.3	33.8	19.3	9.6	9.6	4.9
80°	140.2	145.0	120.8	82.1	58.0	38.7	24.2	9.6	4.9	4.9
82.5°	149.9	164.4	135.3	101.5	72.5	43.5	24.2	4.9	0.0	0.0
85°	38.7	62.8	106.3	91.8	72.5	43.5	24.2	4.9	0.0	0.0
87.5°	0.0	4.9	14.5	14.5	19.3	19.3	14.5	4.9	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)