

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: P647059

Luminaire Tested: **GALN-SA7C-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647059
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-SA7C-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21196.6 lumens
Efficiency: N/A
Efficacy: 56.2 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

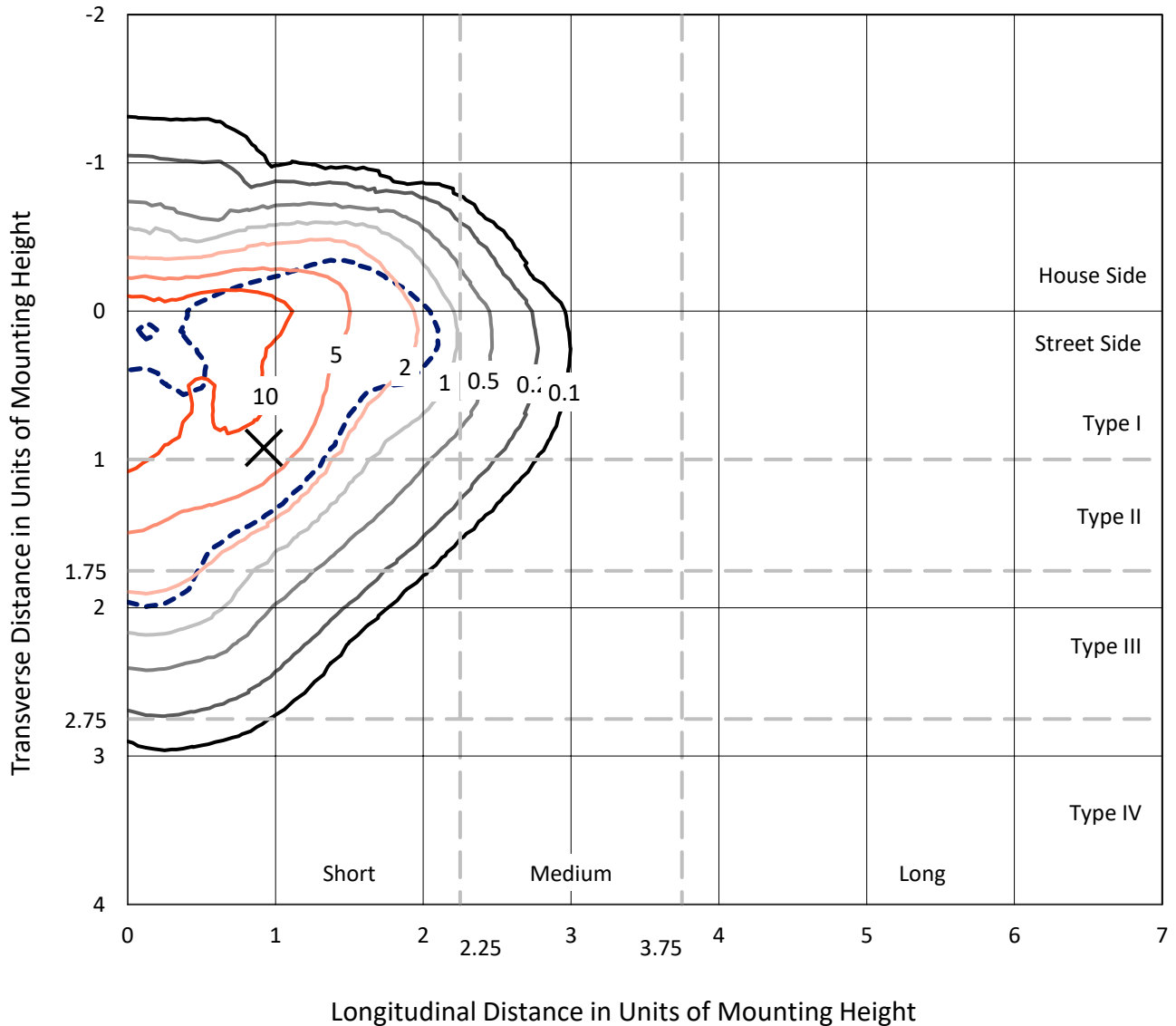
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647059
 CATALOG NUMBER: GALN-SA7C-835-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

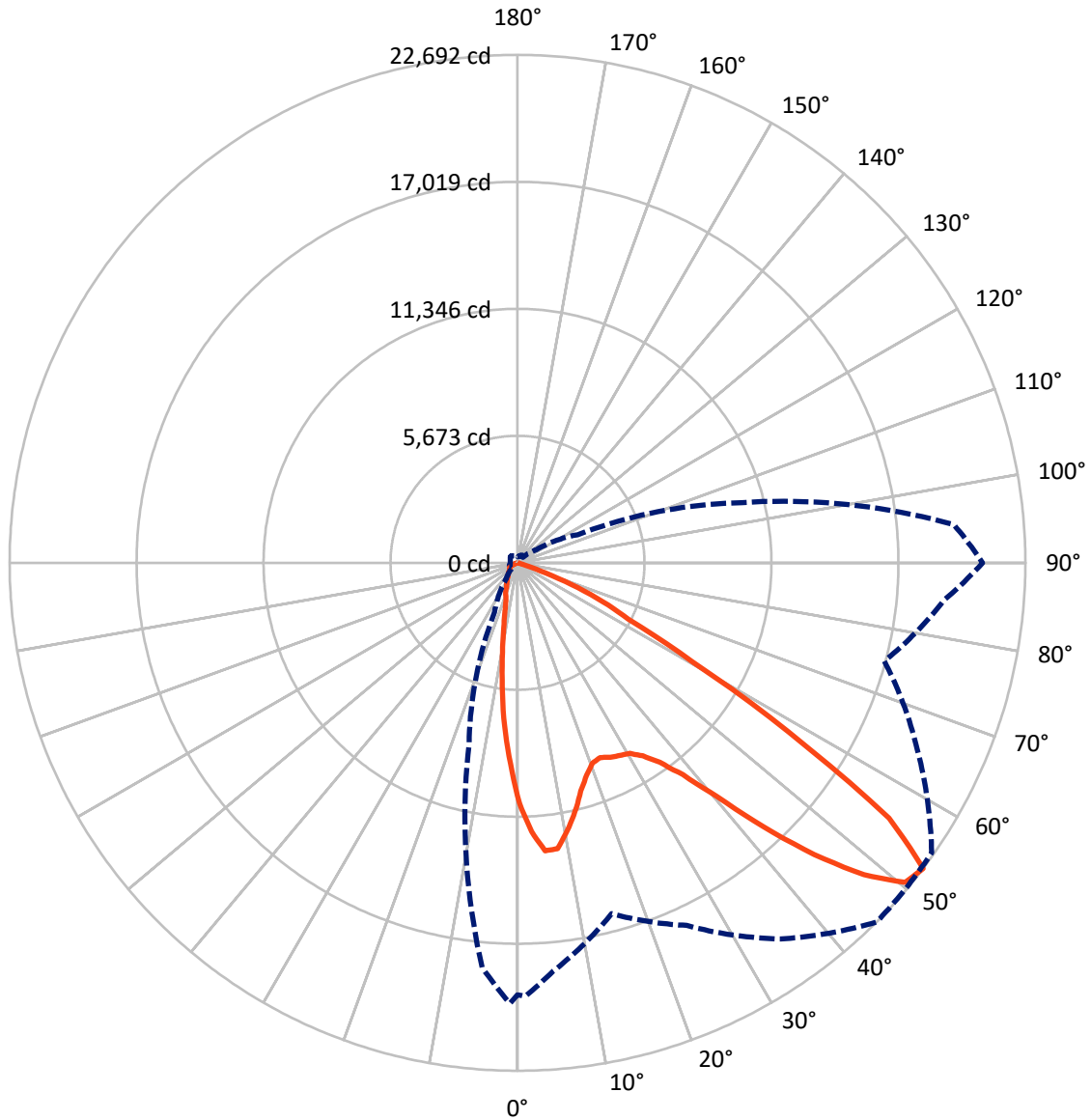
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type III - Short - N/A

REPORT NUMBER: P647059
CATALOG NUMBER: GALN-SA7C-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-SA7C-835-U-SLL-GRSBK

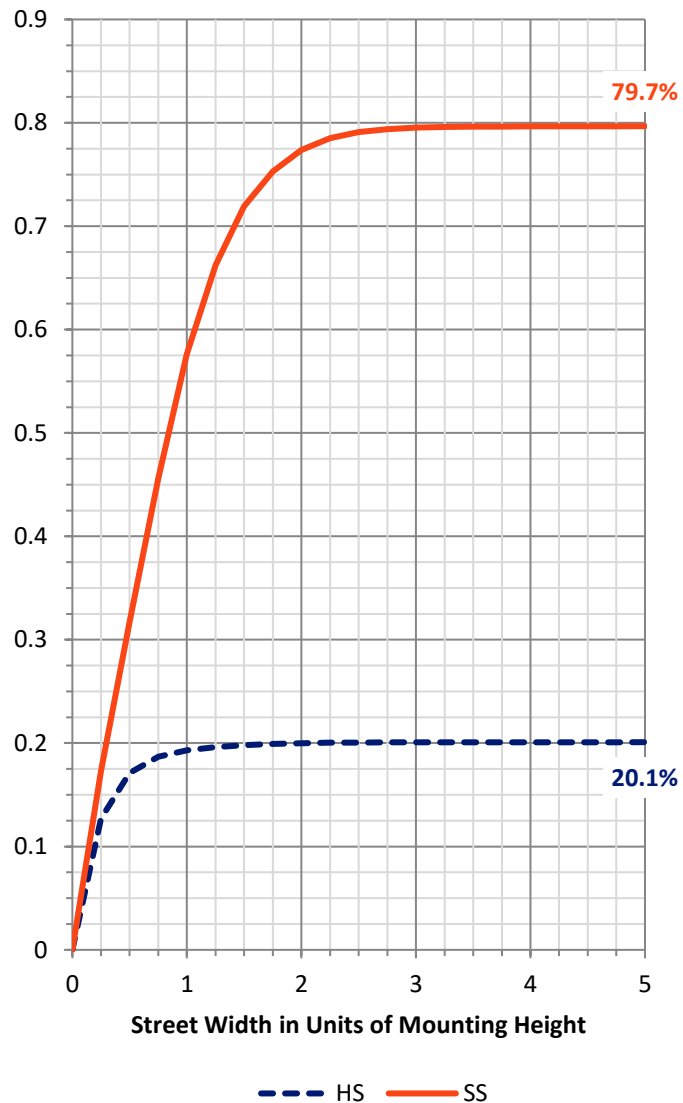
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4301.9	0.0	4301.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	16894.7	0.0	16894.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	21196.6	0.0	21196.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.8	3.7
10°-20°	1546.4	7.3
20°-30°	2353.4	11.1
30°-40°	3517.4	16.6
40°-50°	5009.2	23.6
50°-60°	5384.7	25.4
60°-70°	2386.1	11.3
70°-80°	193.0	0.9
80°-90°	22.5	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°	21196.6	100.0
0°-180°	21196.6	100.0

Coefficient of Utilization

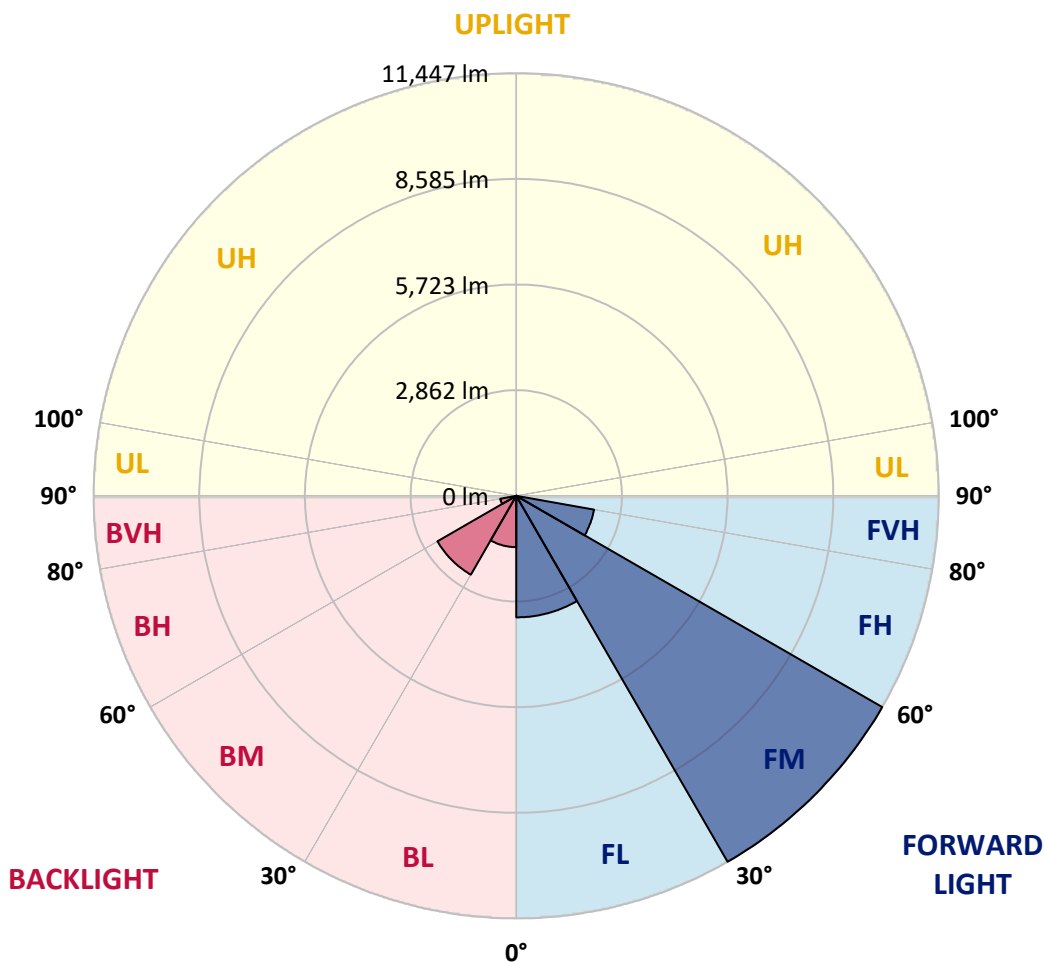


REPORT NUMBER: P647059
 CATALOG NUMBER: GALN-SA7C-835-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3292.3	15.5			
FM	(30°-60°)	11446.8	54.0			
FH	(60°-80°)	2139.0	10.1			G2/5000
FVH	(80°-90°)	16.7	0.1			G1/100
BL	(0°-30°)	1391.4	6.6	B3/2500		
BM	(30°-60°)	2464.5	11.6	B2/2500		
BH	(60°-80°)	440.1	2.1	B1/500		G1/500
BVH	(80°-90°)	5.8	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: P647059

CATALOG NUMBER: GALN-SA7C-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7
2.5°	11373.0	11406.4	11589.8	11819.1	11940.0	12215.1	12023.4	12073.4	11969.2	11602.3	11314.7
5°	11027.0	11022.8	11256.3	11823.2	12361.1	12907.2	12923.9	12632.1	12119.3	11556.5	10751.8
7.5°	9984.7	10147.3	10389.2	11293.8	12290.2	12698.8	12894.7	12552.8	11764.9	10960.3	10089.0
10°	9196.8	9280.2	9688.8	10781.0	11510.6	12056.7	12177.6	11981.7	11377.1	10372.5	9396.9
12.5°	8742.4	8784.1	9263.5	10180.6	10952.0	11356.3	11414.7	11506.4	11072.9	10130.6	8959.2
15°	8746.6	8779.9	9426.1	10193.2	10497.5	10389.2	10580.9	10576.8	10764.4	10084.8	9326.0
17.5°	9376.0	9413.6	9997.3	10376.6	10243.2	9988.9	9976.4	10168.2	10564.2	10655.9	9880.5
20°	10460.0	10547.6	10977.0	10956.1	10205.7	9692.9	9551.2	9697.1	10618.4	11139.5	10997.8
22.5°	11919.1	12040.0	12340.2	11764.9	10376.6	9492.8	9446.9	9730.4	10977.0	12219.3	12265.1
25°	13611.8	13816.0	13962.0	13224.0	10985.3	9838.8	9622.1	10109.8	11460.5	13390.8	13878.6
27.5°	14733.2	14945.8	14912.5	13857.7	11393.8	9930.6	9747.1	10201.6	11881.6	13670.1	14720.7
30°	15608.7	15737.9	15971.4	14199.5	11802.4	10189.0	9876.4	10589.2	12019.2	14153.7	15737.9
32.5°	16630.1	16717.7	16734.4	14804.1	12431.9	10514.2	10276.6	11072.9	12627.9	14616.5	16638.4
35°	17659.9	17789.1	17518.1	15550.3	12819.7	11118.7	10943.6	11910.8	13115.6	15095.9	17630.7
37.5°	18777.1	18843.8	18218.5	15858.8	13374.1	12102.6	12006.7	12815.4	13962.0	15963.1	18731.2
40°	19715.2	19777.7	18964.7	16238.2	13957.8	13478.3	13724.3	14541.4	15112.6	16525.8	19281.6
42.5°	20236.2	20382.2	19214.9	16029.7	15129.3	15037.5	16129.8	16417.5	16446.7	16684.3	19773.5
45°	20378.0	20311.3	18802.2	16200.7	16154.9	17601.4	18593.7	18973.1	17772.4	16976.1	19898.6
47.5°	19723.5	19811.1	18193.5	16050.6	17501.5	19544.2	20828.3	21532.8	18760.4	16721.8	19590.1
50°	19194.1	19081.5	17997.6	15942.2	17864.1	20461.4	22441.6	22600.1	19669.3	17034.5	19252.4
52.5°	19298.3	19369.1	18310.2	16229.9	17872.4	20515.6	22691.8	22583.4	19698.5	16963.6	19131.5
55°	19519.3	19206.5	18176.8	15596.2	16675.9	19002.2	20140.4	19973.6	18180.9	16209.0	18835.5
57.5°	16842.7	17326.3	16713.4	13924.4	13686.8	14316.3	14295.5	14808.3	13561.7	13949.5	17147.1
60°	13670.1	13753.5	13982.8	11910.8	9472.0	9255.1	8955.0	8629.8	9125.9	11927.5	15596.2
62.5°	12023.4	11923.3	12740.4	10835.2	6687.1	5598.9	5549.0	5749.0	7041.4	11377.1	14629.0
65°	8738.2	8863.2	9455.3	8408.9	5019.5	4273.2	4198.2	4790.2	5699.0	9117.6	11164.6
67.5°	5336.3	5578.1	5632.3	5186.2	3406.0	2705.7	2597.3	3135.1	4114.8	5899.1	6545.3
70°	2463.9	2755.7	3030.8	2830.8	1971.9	1113.1	1050.6	1317.4	2076.1	3393.5	3472.8
72.5°	746.3	750.4	1050.6	1096.4	637.8	250.2	221.0	291.8	704.5	1121.5	1179.8
75°	54.2	58.3	141.7	162.6	120.9	62.6	66.7	79.2	150.1	250.2	187.6
77.5°	4.1	4.1	4.1	20.8	37.5	41.7	54.2	62.6	79.2	91.7	83.4
80°	4.1	0.0	4.1	16.7	29.2	41.7	50.0	58.3	62.6	70.9	62.6
82.5°	0.0	0.0	0.0	12.5	29.2	41.7	45.9	62.6	70.9	83.4	70.9
85°	0.0	0.0	0.0	12.5	29.2	45.9	41.7	20.8	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: P647059

CATALOG NUMBER: GALN-SA7C-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7
2.5°	11364.7	11202.1	10831.0	10643.4	10201.6	10139.0	9705.4	9634.5	9488.6	9409.4	9217.6
5°	10397.5	10201.6	9597.0	9088.4	8496.4	8083.7	7766.8	7479.1	7312.4	7158.2	7229.0
7.5°	9609.5	9038.4	8367.1	7516.7	6833.0	6391.1	5907.4	5511.4	5278.0	5119.5	5157.1
10°	8784.1	8413.0	7479.1	6524.5	5699.0	5386.3	5007.0	4702.6	4373.3	4089.8	3956.3
12.5°	8525.6	7975.2	6803.8	5832.4	5207.1	4902.8	4469.1	4119.0	3697.9	3351.9	3231.0
15°	8571.4	8042.0	6620.3	5582.2	4844.3	4319.1	3802.1	3368.5	2905.8	2664.0	2538.9
17.5°	9317.7	8400.5	6741.2	5319.6	4339.9	3610.3	2972.5	2422.2	2076.1	1826.0	1771.9
20°	10234.9	9176.0	6999.7	5127.9	3927.2	2872.4	2172.0	1696.8	1409.1	1367.4	1354.9
22.5°	11577.3	10443.3	7554.2	4998.6	3422.7	2238.8	1488.3	1234.0	1154.8	1146.5	1150.6
25°	13453.3	12031.7	8158.7	4890.2	3043.4	1726.0	1217.3	1046.4	1021.4	1008.9	1029.7
27.5°	14266.3	12990.6	8479.7	4656.7	2697.4	1555.0	1200.7	1038.1	967.2	946.3	958.9
30°	15271.0	13628.4	8984.1	4256.5	2188.7	1279.9	1121.5	1129.8	1096.4	992.2	958.9
32.5°	16605.1	14424.7	9238.5	3973.0	1955.2	1058.9	821.3	754.6	842.1	858.8	888.0
35°	17459.7	15233.5	9367.7	3806.3	1834.3	904.7	696.2	633.7	612.9	617.0	633.7
37.5°	19048.1	16325.8	9530.3	3631.2	1742.6	787.9	629.5	571.1	542.0	542.0	558.7
40°	19998.7	17192.9	9751.2	3535.3	1651.0	717.1	571.1	521.1	496.1	496.1	504.5
42.5°	20236.2	17622.4	9676.2	3502.0	1546.7	700.4	521.1	483.6	454.5	450.2	446.1
45°	20661.5	18276.9	9688.8	3464.5	1438.3	637.8	492.0	450.2	408.6	404.4	400.2
47.5°	21128.5	18747.9	9713.7	3318.5	1334.1	533.6	512.8	416.9	366.8	358.5	358.5
50°	20728.2	19123.1	9930.6	3172.6	1200.7	433.5	504.5	391.9	325.2	312.7	316.9
52.5°	20778.2	19565.1	10389.2	2968.4	1033.9	346.0	408.6	371.1	296.0	275.1	279.3
55°	19977.8	19098.2	10451.6	2751.5	808.8	266.8	312.7	325.2	250.2	241.8	241.8
57.5°	17197.1	16171.5	9221.8	2230.4	533.6	221.0	225.1	283.5	216.8	208.4	212.6
60°	14716.6	12982.2	7420.8	1471.6	333.6	175.1	162.6	287.7	191.8	187.6	200.1
62.5°	13415.8	10668.5	5628.1	913.0	229.3	133.4	112.6	233.5	166.8	166.8	183.5
65°	9692.9	7166.5	3272.6	479.4	162.6	104.2	83.4	133.4	137.6	141.7	150.1
67.5°	6003.3	3618.7	1380.0	233.5	108.4	70.9	54.2	83.4	91.7	91.7	100.1
70°	2964.1	1442.4	458.6	133.4	83.4	58.3	37.5	45.9	45.9	41.7	45.9
72.5°	917.2	433.5	116.7	83.4	58.3	37.5	20.8	16.7	8.3	0.0	4.1
75°	104.2	83.4	75.0	58.3	37.5	16.7	4.1	0.0	0.0	0.0	0.0
77.5°	62.6	70.9	70.9	58.3	37.5	12.5	0.0	0.0	0.0	0.0	0.0
80°	50.0	54.2	58.3	54.2	33.4	16.7	0.0	0.0	0.0	0.0	0.0
82.5°	62.6	70.9	79.2	70.9	45.9	20.8	8.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.5	4.1	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: P647059

CATALOG NUMBER: GALN-SA7C-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7
2.5°	9138.4	9046.7	9176.0	8984.1	8980.0	8984.1	8930.0	8879.9	8959.2	9171.7	9192.7
5°	6974.7	7170.6	7233.2	7437.5	7324.9	7158.2	7191.5	7078.9	7354.1	7475.0	7379.1
7.5°	5077.8	5065.3	5486.4	5511.4	5565.6	5569.8	5561.4	5340.5	5115.3	5165.4	5315.5
10°	3939.7	3727.1	3931.4	3910.5	4043.9	4006.4	4060.6	3823.0	3902.2	3902.2	3998.1
12.5°	3210.1	2985.0	2947.4	2893.3	2947.4	2968.4	2989.2	2943.3	3076.7	3139.3	3205.9
15°	2451.3	2326.3	2292.9	2188.7	2205.4	2263.7	2313.8	2334.7	2292.9	2388.9	2397.2
17.5°	1780.2	1776.0	1796.8	1792.7	1776.0	1763.5	1759.3	1705.1	1688.5	1696.8	1730.1
20°	1350.8	1384.1	1455.0	1525.8	1563.3	1517.5	1455.0	1363.3	1325.8	1334.1	1338.2
22.5°	1154.8	1204.8	1300.7	1380.0	1417.5	1334.1	1221.5	1142.3	1125.6	1121.5	1117.3
25°	1046.4	1104.8	1175.7	1200.7	1196.5	1146.5	1063.1	1029.7	1021.4	1013.0	975.5
27.5°	988.1	1008.9	1021.4	1050.6	1063.1	1029.7	1008.9	958.9	950.6	950.6	925.5
30°	954.7	942.2	958.9	938.0	954.7	929.7	933.9	933.9	913.0	921.4	921.4
32.5°	888.0	892.2	892.2	850.5	862.9	833.8	862.9	888.0	892.2	896.3	929.7
35°	650.4	725.4	763.0	763.0	775.4	754.6	750.4	721.2	683.7	646.2	629.5
37.5°	571.1	600.3	650.4	679.6	700.4	683.7	646.2	600.3	579.5	562.8	546.1
40°	508.6	533.6	567.0	600.3	642.1	621.2	562.8	542.0	516.9	516.9	500.3
42.5°	458.6	471.1	492.0	542.0	587.8	546.1	504.5	487.8	475.3	471.1	466.9
45°	412.7	416.9	437.8	479.4	533.6	492.0	450.2	429.4	433.5	437.8	433.5
47.5°	371.1	379.4	391.9	441.9	475.3	454.5	408.6	396.0	396.0	396.0	400.2
50°	321.0	341.9	366.8	408.6	433.5	421.1	383.5	366.8	358.5	358.5	362.7
52.5°	287.7	304.4	337.7	387.7	421.1	400.2	362.7	337.7	321.0	316.9	325.2
55°	250.2	279.3	333.6	371.1	416.9	396.0	354.4	325.2	296.0	291.8	291.8
57.5°	225.1	271.0	321.0	366.8	404.4	387.7	354.4	316.9	279.3	275.1	275.1
60°	212.6	262.6	312.7	354.4	404.4	379.4	350.2	308.5	266.8	266.8	262.6
62.5°	200.1	245.9	296.0	337.7	387.7	366.8	337.7	296.0	254.3	254.3	245.9
65°	166.8	212.6	245.9	283.5	337.7	316.9	287.7	258.5	225.1	216.8	221.0
67.5°	116.7	146.0	179.2	216.8	250.2	241.8	229.3	208.4	179.2	175.1	170.9
70°	58.3	79.2	108.4	146.0	175.1	166.8	158.4	141.7	125.0	120.9	120.9
72.5°	8.3	25.0	45.9	66.7	91.7	95.9	91.7	87.5	83.4	79.2	83.4
75°	0.0	0.0	0.0	16.7	37.5	45.9	54.2	62.6	62.6	54.2	66.7
77.5°	0.0	0.0	0.0	0.0	4.1	20.8	41.7	54.2	66.7	58.3	79.2
80°	0.0	0.0	0.0	0.0	4.1	25.0	41.7	58.3	66.7	58.3	83.4
82.5°	0.0	0.0	0.0	0.0	4.1	29.2	41.7	54.2	62.6	58.3	75.0
85°	0.0	0.0	0.0	0.0	12.5	25.0	16.7	8.3	4.1	4.1	12.5
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: P647059

CATALOG NUMBER: GALN-SA7C-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7	10747.7
2.5°	9309.3	9605.4	9922.2	10043.1	10418.3	10701.8	10893.6	11306.3	11368.8	11373.0
5°	7479.1	7629.2	8171.2	8425.5	8984.1	9417.8	9880.5	10547.6	10993.6	11027.0
7.5°	5315.5	5732.3	5961.7	6624.5	7312.4	7991.9	8679.9	9455.3	9972.2	9984.7
10°	4277.4	4548.4	4956.9	5453.0	6032.5	6724.6	7641.8	8542.3	9067.5	9196.8
12.5°	3443.6	3918.8	4385.7	4898.5	5340.5	5861.6	6849.7	8050.3	8483.9	8742.4
15°	2651.5	3085.0	3635.4	4235.7	4736.0	5432.2	6557.9	7929.4	8659.0	8746.6
17.5°	1955.2	2343.0	2851.6	3418.6	4169.0	5157.1	6607.8	8542.3	9230.2	9376.0
20°	1404.9	1630.0	2030.3	2689.0	3643.7	4836.0	6657.8	9163.4	10209.9	10460.0
22.5°	1113.1	1204.8	1467.5	2051.1	3055.9	4498.3	7012.2	10351.6	11556.5	11919.1
25°	967.2	1017.2	1142.3	1617.6	2684.8	4465.0	7579.2	11777.4	13349.1	13611.8
27.5°	933.9	942.2	1050.6	1484.2	2484.7	4244.0	7796.0	12790.5	14466.4	14733.2
30°	983.9	1117.3	1125.6	1254.8	2113.7	3806.3	7908.6	13770.2	15412.7	15608.7
32.5°	850.5	808.8	838.0	971.4	1859.4	3552.0	8121.2	14624.8	16492.6	16630.1
35°	592.0	621.2	687.9	842.1	1625.9	3285.2	8175.4	15567.0	17518.1	17659.9
37.5°	546.1	562.8	617.0	717.1	1430.0	3135.1	8100.4	16254.9	18581.2	18777.1
40°	508.6	529.5	558.7	650.4	1284.0	2968.4	7996.2	16876.1	19231.6	19715.2
42.5°	479.4	496.1	521.1	621.2	1159.0	2801.6	7850.2	17751.5	19815.2	20236.2
45°	446.1	471.1	500.3	604.5	1088.1	2689.0	7741.8	17697.4	20152.9	20378.0
47.5°	412.7	454.5	487.8	562.8	1067.2	2634.8	7787.6	17493.1	19877.8	19723.5
50°	379.4	433.5	492.0	466.9	1017.2	2526.4	7841.9	17772.4	19223.2	19194.1
52.5°	350.2	412.7	458.6	383.5	904.7	2422.2	8367.1	18139.3	19686.0	19298.3
55°	308.5	371.1	366.8	308.5	733.7	2343.0	8779.9	18147.6	19373.3	19519.3
57.5°	279.3	329.3	287.7	258.5	542.0	1959.5	8108.7	15216.8	16584.3	16842.7
60°	258.5	321.0	216.8	204.3	354.4	1413.3	7078.9	11785.7	13182.4	13670.1
62.5°	237.6	304.4	170.9	166.8	245.9	1004.7	5819.9	9863.8	11360.5	12023.4
65°	208.4	216.8	137.6	129.3	175.1	542.0	3543.6	6791.3	8492.3	8738.2
67.5°	170.9	166.8	112.6	104.2	116.7	262.6	1563.3	3401.9	4923.6	5336.3
70°	137.6	137.6	95.9	83.4	83.4	120.9	408.6	1354.9	2226.2	2463.9
72.5°	100.1	104.2	75.0	66.7	62.6	58.3	66.7	271.0	583.6	746.3
75°	87.5	91.7	75.0	58.3	45.9	37.5	29.2	25.0	33.4	54.2
77.5°	95.9	95.9	79.2	54.2	41.7	29.2	16.7	8.3	8.3	4.1
80°	120.9	125.0	104.2	70.9	50.0	33.4	20.8	8.3	4.1	4.1
82.5°	129.3	141.7	116.7	87.5	62.6	37.5	20.8	4.1	0.0	0.0
85°	33.4	54.2	91.7	79.2	62.6	37.5	20.8	4.1	0.0	0.0
87.5°	0.0	4.1	12.5	12.5	16.7	16.7	12.5	4.1	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)