

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: P532291

Luminaire Tested: **GALN-SA7C-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532291
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-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 19901 lumens
Efficiency: N/A
Efficacy: 52.8 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

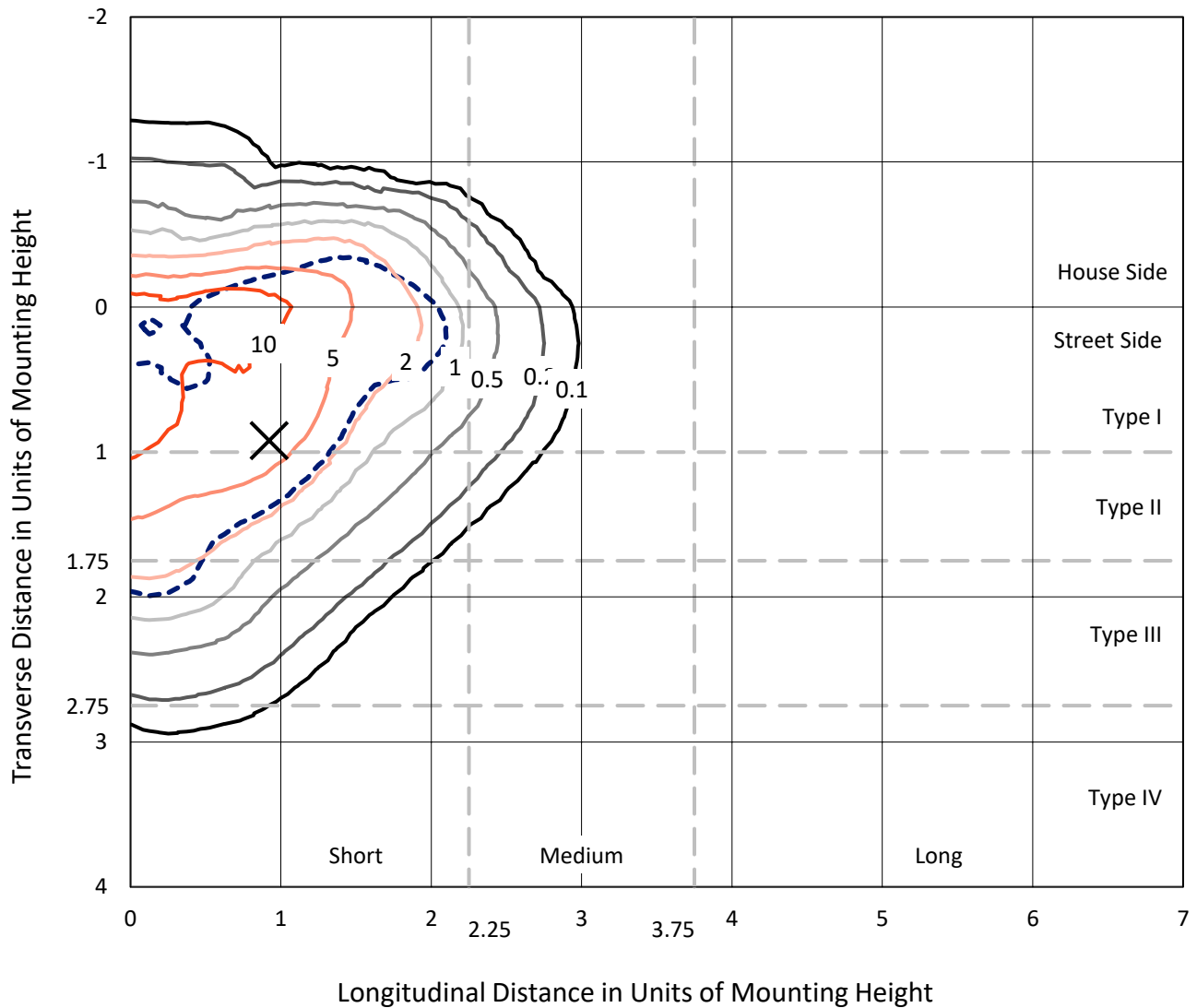
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532291
 CATALOG NUMBER: GALN-SA7C-827-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

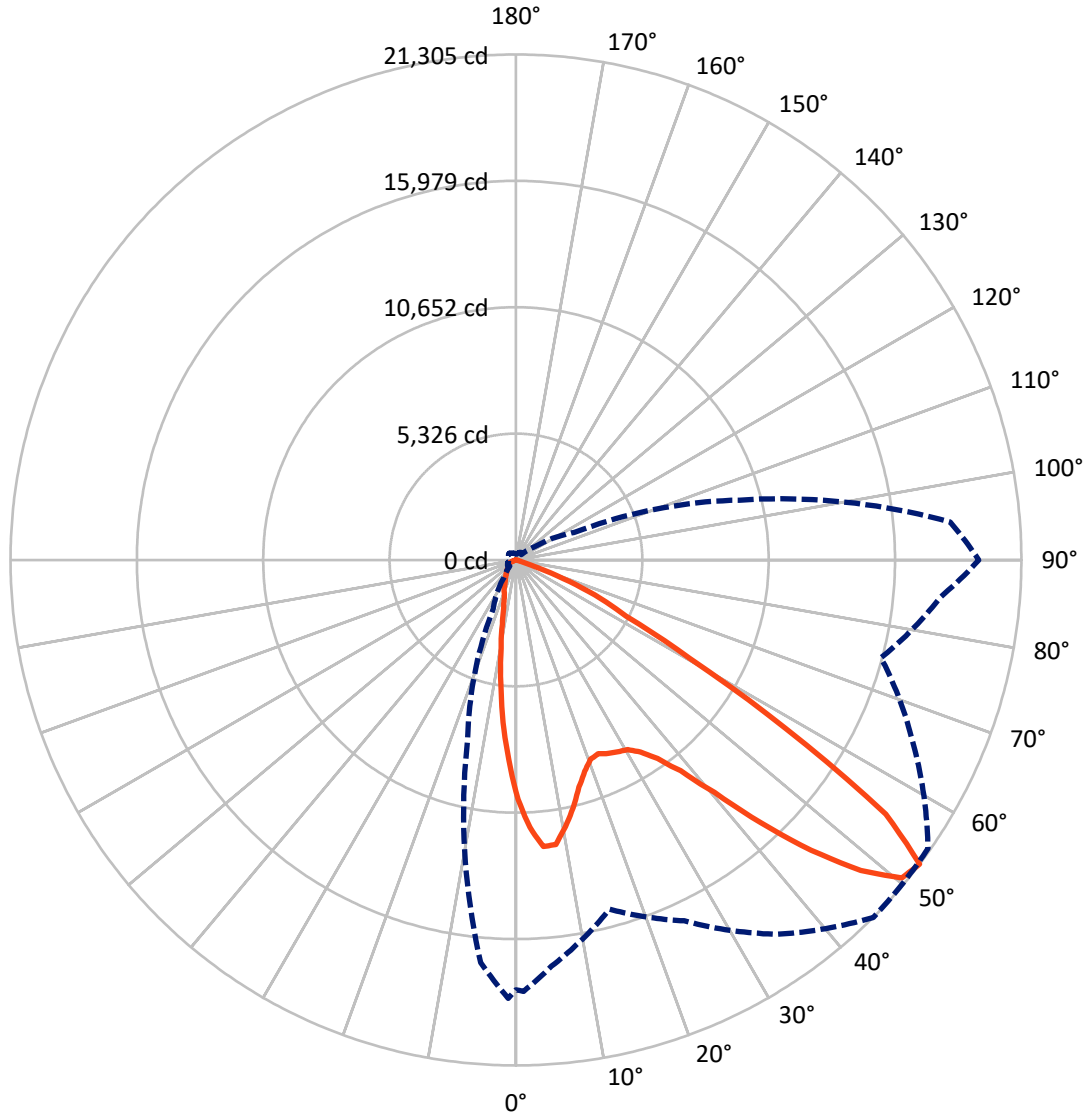
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Short - N/A

REPORT NUMBER: P532291
CATALOG NUMBER: GALN-SA7C-827-U-SLL-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P532291
 CATALOG NUMBER: GALN-SA7C-827-U-SLL-GRSBK

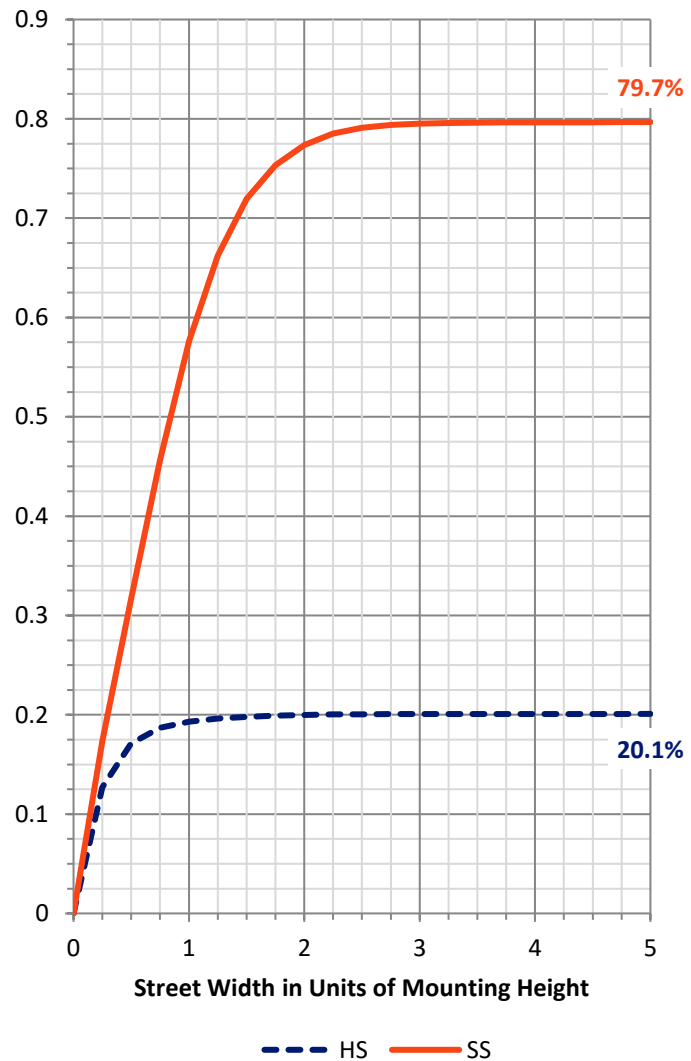
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4038.9	0.0	4038.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	15862.1	0.0	15862.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	19901.0	0.0	19901.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.9	3.7
10°-20°	1451.9	7.3
20°-30°	2209.6	11.1
30°-40°	3302.4	16.6
40°-50°	4703.0	23.6
50°-60°	5055.6	25.4
60°-70°	2240.2	11.3
70°-80°	181.3	0.9
80°-90°	21.1	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°	19901.0	100.0
0°-180°	19901.0	100.0

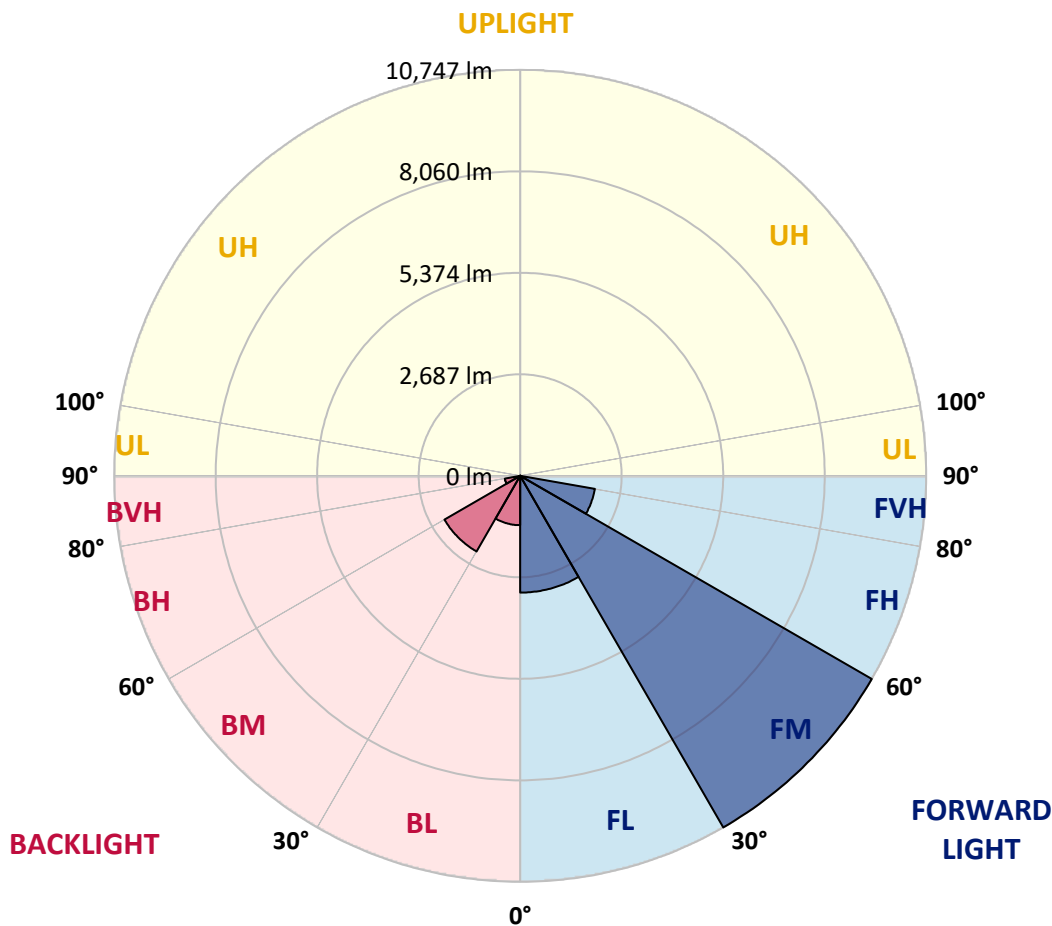


REPORT NUMBER: P532291
 CATALOG NUMBER: GALN-SA7C-827-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3091.0	15.5			
FM (30°-60°)	10747.2	54.0			
FH (60°-80°)	2008.2	10.1			G2/5000
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1306.3	6.6	B3/2500		
BM (30°-60°)	2313.8	11.6	B2/2500		
BH (60°-80°)	413.2	2.1	B1/500		G1/500
BVH (80°-90°)	5.5	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: P532291

CATALOG NUMBER: GALN-SA7C-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7
2.5°	10677.9	10709.2	10881.4	11096.7	11210.2	11468.5	11288.5	11335.4	11237.6	10893.1	10623.1
5°	10353.0	10349.1	10568.3	11100.6	11605.5	12118.3	12133.9	11859.9	11378.5	10850.1	10094.6
7.5°	9374.4	9527.1	9754.1	10603.5	11539.0	11922.6	12106.5	11785.6	11045.8	10290.4	9472.3
10°	8634.7	8712.9	9096.5	10122.0	10807.0	11319.8	11433.3	11249.3	10681.8	9738.5	8822.5
12.5°	8208.0	8247.2	8697.3	9558.4	10282.5	10662.2	10717.0	10803.1	10396.0	9511.4	8411.6
15°	8211.9	8243.2	8849.9	9570.1	9855.9	9754.1	9934.2	9930.3	10106.4	9468.4	8756.0
17.5°	8803.0	8838.2	9386.2	9742.4	9617.1	9378.4	9366.6	9546.7	9918.5	10004.6	9276.6
20°	9820.7	9902.9	10306.0	10286.4	9581.9	9100.4	8967.4	9104.4	9969.4	10458.7	10325.6
22.5°	11190.6	11304.1	11585.9	11045.8	9742.4	8912.6	8869.5	9135.7	10306.0	11472.4	11515.5
25°	12779.8	12971.6	13108.6	12415.7	10313.8	9237.4	9033.9	9491.9	10760.1	12572.3	13030.3
27.5°	13832.7	14032.3	14001.0	13010.7	10697.4	9323.6	9151.3	9578.0	11155.4	12834.6	13820.9
30°	14654.7	14776.0	14995.2	13331.7	11081.0	9566.2	9272.7	9942.0	11284.6	13288.6	14776.0
32.5°	15613.6	15695.8	15711.5	13899.2	11672.1	9871.5	9648.4	10396.0	11856.0	13723.1	15621.5
35°	16580.4	16701.8	16447.3	14599.9	12036.1	10439.1	10274.7	11182.8	12314.0	14173.2	16553.0
37.5°	17629.4	17692.1	17104.9	14889.5	12556.7	11362.8	11272.8	12032.2	13108.6	14987.4	17586.4
40°	18510.1	18568.8	17805.6	15245.7	13104.6	12654.5	12885.4	13652.6	14188.9	15515.8	18103.0
42.5°	18999.4	19136.4	18040.4	15050.0	14204.5	14118.4	15143.9	15414.0	15441.4	15664.5	18564.9
45°	19132.5	19069.8	17652.9	15210.5	15167.4	16525.6	17457.2	17813.4	16686.1	15938.5	18682.3
47.5°	18517.9	18600.1	17081.4	15069.6	16431.7	18349.6	19555.2	20216.7	17613.8	15699.7	18392.7
50°	18020.8	17915.2	16897.5	14967.8	16772.2	19210.7	21070.0	21218.7	18467.1	15993.3	18075.6
52.5°	18118.7	18185.2	17191.0	15237.9	16780.0	19261.6	21304.8	21203.1	18494.5	15926.8	17962.1
55°	18326.1	18032.6	17065.8	14642.9	15656.7	17840.8	18909.4	18752.8	17069.7	15218.3	17684.2
57.5°	15813.2	16267.3	15691.9	13073.3	12850.2	13441.3	13421.7	13903.1	12732.8	13096.8	16099.0
60°	12834.6	12912.8	13128.1	11182.8	8893.0	8689.5	8407.6	8102.3	8568.1	11198.4	14642.9
62.5°	11288.5	11194.5	11961.7	10172.9	6278.3	5256.7	5209.8	5397.6	6611.0	10681.8	13734.8
65°	8204.1	8321.5	8877.3	7894.9	4712.7	4012.0	3941.6	4497.4	5350.7	8560.3	10482.1
67.5°	5010.1	5237.2	5288.0	4869.2	3197.9	2540.3	2438.5	2943.5	3863.3	5538.6	6145.2
70°	2313.3	2587.3	2845.6	2657.7	1851.4	1045.1	986.4	1236.9	1949.3	3186.1	3260.5
72.5°	700.6	704.6	986.4	1029.4	598.9	234.9	207.5	274.0	661.5	1052.9	1107.7
75°	50.9	54.8	133.1	152.7	113.5	58.7	62.6	74.4	140.9	234.9	176.1
77.5°	3.9	3.9	3.9	19.6	35.2	39.1	50.9	58.7	74.4	86.1	78.3
80°	3.9	0.0	3.9	15.7	27.4	39.1	47.0	54.8	58.7	66.5	58.7
82.5°	0.0	0.0	0.0	11.7	27.4	39.1	43.1	58.7	66.5	78.3	66.5
85°	0.0	0.0	0.0	11.7	27.4	43.1	39.1	19.6	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: P532291

CATALOG NUMBER: GALN-SA7C-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7
2.5°	10670.0	10517.4	10169.0	9992.9	9578.0	9519.3	9112.2	9045.6	8908.7	8834.3	8654.2
5°	9761.9	9578.0	9010.4	8532.9	7977.1	7589.6	7292.1	7022.0	6865.5	6720.6	6787.2
7.5°	9022.2	8485.9	7855.7	7057.2	6415.3	6000.4	5546.4	5174.5	4955.3	4806.6	4841.8
10°	8247.2	7898.8	7022.0	6125.7	5350.7	5057.1	4700.9	4415.2	4106.0	3839.8	3714.5
12.5°	8004.5	7487.8	6387.9	5475.9	4888.8	4603.1	4196.0	3867.2	3471.9	3147.0	3033.5
15°	8047.5	7550.4	6215.7	5241.1	4548.3	4055.1	3569.7	3162.6	2728.2	2501.2	2383.7
17.5°	8748.2	7887.1	6329.2	4994.5	4074.7	3389.7	2790.8	2274.1	1949.3	1714.4	1663.5
20°	9609.3	8615.1	6571.9	4814.4	3687.1	2696.9	2039.3	1593.1	1323.0	1283.8	1272.1
22.5°	10869.7	9805.0	7092.5	4693.1	3213.5	2101.9	1397.4	1158.6	1084.2	1076.4	1080.3
25°	12631.0	11296.3	7660.0	4591.3	2857.3	1620.5	1142.9	982.5	959.0	947.2	966.8
27.5°	13394.3	12196.6	7961.4	4372.1	2532.5	1460.0	1127.3	974.6	908.1	888.5	900.3
30°	14337.6	12795.4	8435.0	3996.4	2054.9	1201.7	1052.9	1060.7	1029.4	931.6	900.3
32.5°	15590.1	13543.0	8673.8	3730.2	1835.7	994.2	771.1	708.5	790.7	806.3	833.7
35°	16392.5	14302.4	8795.1	3573.6	1722.2	849.4	653.7	595.0	575.4	579.3	595.0
37.5°	17883.8	15327.9	8947.8	3409.2	1636.1	739.8	591.0	536.2	508.8	508.8	524.5
40°	18776.3	16142.0	9155.2	3319.2	1550.0	673.2	536.2	489.3	465.8	465.8	473.6
42.5°	18999.4	16545.2	9084.8	3287.9	1452.2	657.6	489.3	454.0	426.6	422.7	418.8
45°	19398.6	17159.7	9096.5	3252.7	1350.4	598.9	461.9	422.7	383.6	379.7	375.8
47.5°	19837.0	17602.0	9120.0	3115.7	1252.5	501.0	481.4	391.4	344.4	336.6	336.6
50°	19461.3	17954.3	9323.6	2978.7	1127.3	407.1	473.6	367.9	305.3	293.6	297.5
52.5°	19508.2	18369.2	9754.1	2786.9	970.7	324.9	383.6	348.4	277.9	258.3	262.2
55°	18756.7	17930.8	9812.8	2583.4	759.3	250.5	293.6	305.3	234.9	227.0	227.0
57.5°	16146.0	15183.1	8658.1	2094.1	501.0	207.5	211.4	266.2	203.5	195.7	199.6
60°	13817.0	12188.7	6967.2	1381.7	313.1	164.4	152.7	270.1	180.1	176.1	187.9
62.5°	12595.8	10016.4	5284.1	857.2	215.3	125.3	105.7	219.2	156.6	156.6	172.2
65°	9100.4	6728.5	3072.6	450.1	152.7	97.9	78.3	125.3	129.2	133.1	140.9
67.5°	5636.4	3397.5	1295.6	219.2	101.8	66.5	50.9	78.3	86.1	86.1	93.9
70°	2783.0	1354.3	430.6	125.3	78.3	54.8	35.2	43.1	43.1	39.1	43.1
72.5°	861.1	407.1	109.6	78.3	54.8	35.2	19.6	15.7	7.8	0.0	3.9
75°	97.9	78.3	70.5	54.8	35.2	15.7	3.9	0.0	0.0	0.0	0.0
77.5°	58.7	66.5	66.5	54.8	35.2	11.7	0.0	0.0	0.0	0.0	0.0
80°	47.0	50.9	54.8	50.9	31.3	15.7	0.0	0.0	0.0	0.0	0.0
82.5°	58.7	66.5	74.4	66.5	43.1	19.6	7.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.7	3.9	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: P532291

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7
2.5°	8579.9	8493.8	8615.1	8435.0	8431.1	8435.0	8384.2	8337.2	8411.6	8611.2	8630.7
5°	6548.4	6732.4	6791.1	6982.9	6877.2	6720.6	6751.9	6646.3	6904.6	7018.1	6928.1
7.5°	4767.5	4755.7	5151.0	5174.5	5225.4	5229.3	5221.5	5014.1	4802.7	4849.7	4990.6
10°	3698.9	3499.3	3691.1	3671.5	3796.7	3761.5	3812.4	3589.3	3663.7	3663.7	3753.7
12.5°	3013.9	2802.5	2767.3	2716.4	2767.3	2786.9	2806.5	2763.4	2888.7	2947.4	3010.0
15°	2301.5	2184.1	2152.8	2054.9	2070.6	2125.4	2172.4	2191.9	2152.8	2242.8	2250.6
17.5°	1671.4	1667.4	1687.0	1683.1	1667.4	1655.7	1651.8	1600.9	1585.2	1593.1	1624.4
20°	1268.2	1299.5	1366.0	1432.6	1467.8	1424.8	1366.0	1279.9	1244.7	1252.5	1256.4
22.5°	1084.2	1131.2	1221.2	1295.6	1330.8	1252.5	1146.9	1072.5	1056.8	1052.9	1049.0
25°	982.5	1037.3	1103.8	1127.3	1123.4	1076.4	998.1	966.8	959.0	951.1	915.9
27.5°	927.7	947.2	959.0	986.4	998.1	966.8	947.2	900.3	892.4	892.4	868.9
30°	896.3	884.6	900.3	880.7	896.3	872.9	876.8	876.8	857.2	865.0	865.0
32.5°	833.7	837.6	837.6	798.5	810.2	782.8	810.2	833.7	837.6	841.5	872.9
35°	610.6	681.1	716.3	716.3	728.0	708.5	704.6	677.2	641.9	606.7	591.0
37.5°	536.2	563.6	610.6	638.0	657.6	641.9	606.7	563.6	544.1	528.4	512.8
40°	477.5	501.0	532.3	563.6	602.8	583.2	528.4	508.8	485.4	485.4	469.7
42.5°	430.6	442.3	461.9	508.8	551.9	512.8	473.6	458.0	446.2	442.3	438.4
45°	387.5	391.4	411.0	450.1	501.0	461.9	422.7	403.2	407.1	411.0	407.1
47.5°	348.4	356.2	367.9	414.9	446.2	426.6	383.6	371.8	371.8	371.8	375.8
50°	301.4	321.0	344.4	383.6	407.1	395.3	360.1	344.4	336.6	336.6	340.5
52.5°	270.1	285.7	317.0	364.0	395.3	375.8	340.5	317.0	301.4	297.5	305.3
55°	234.9	262.2	313.1	348.4	391.4	371.8	332.7	305.3	277.9	274.0	274.0
57.5°	211.4	254.4	301.4	344.4	379.7	364.0	332.7	297.5	262.2	258.3	258.3
60°	199.6	246.6	293.6	332.7	379.7	356.2	328.8	289.6	250.5	250.5	246.6
62.5°	187.9	230.9	277.9	317.0	364.0	344.4	317.0	277.9	238.8	238.8	230.9
65°	156.6	199.6	230.9	266.2	317.0	297.5	270.1	242.7	211.4	203.5	207.5
67.5°	109.6	137.0	168.3	203.5	234.9	227.0	215.3	195.7	168.3	164.4	160.5
70°	54.8	74.4	101.8	137.0	164.4	156.6	148.7	133.1	117.4	113.5	113.5
72.5°	7.8	23.5	43.1	62.6	86.1	90.0	86.1	82.2	78.3	74.4	78.3
75°	0.0	0.0	0.0	15.7	35.2	43.1	50.9	58.7	58.7	50.9	62.6
77.5°	0.0	0.0	0.0	0.0	3.9	19.6	39.1	50.9	62.6	54.8	74.4
80°	0.0	0.0	0.0	0.0	3.9	23.5	39.1	54.8	62.6	54.8	78.3
82.5°	0.0	0.0	0.0	0.0	3.9	27.4	39.1	50.9	58.7	54.8	70.5
85°	0.0	0.0	0.0	0.0	11.7	23.5	15.7	7.8	3.9	3.9	11.7
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: P532291

CATALOG NUMBER: GALN-SA7C-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7	10090.7
2.5°	8740.3	9018.2	9315.7	9429.2	9781.5	10047.7	10227.7	10615.2	10673.9	10677.9
5°	7022.0	7162.9	7671.8	7910.5	8435.0	8842.1	9276.6	9902.9	10321.7	10353.0
7.5°	4990.6	5382.0	5597.3	6219.6	6865.5	7503.5	8149.3	8877.3	9362.7	9374.4
10°	4015.9	4270.4	4653.9	5119.7	5663.8	6313.6	7174.7	8020.1	8513.3	8634.7
12.5°	3233.1	3679.3	4117.7	4599.2	5014.1	5503.3	6431.0	7558.3	7965.3	8208.0
15°	2489.4	2896.5	3413.2	3976.8	4446.5	5100.2	6157.0	7444.8	8129.7	8211.9
17.5°	1835.7	2199.8	2677.3	3209.6	3914.2	4841.8	6204.0	8020.1	8666.0	8803.0
20°	1319.1	1530.4	1906.2	2524.6	3421.0	4540.4	6250.9	8603.3	9585.8	9820.7
22.5°	1045.1	1131.2	1377.8	1925.8	2869.1	4223.4	6583.6	9718.9	10850.1	11190.6
25°	908.1	955.1	1072.5	1518.7	2520.7	4192.1	7116.0	11057.5	12533.2	12779.8
27.5°	876.8	884.6	986.4	1393.4	2332.8	3984.6	7319.5	12008.7	13582.2	13832.7
30°	923.7	1049.0	1056.8	1178.2	1984.5	3573.6	7425.2	12928.5	14470.7	14654.7
32.5°	798.5	759.3	786.7	912.0	1745.7	3334.9	7624.8	13730.9	15484.5	15613.6
35°	555.8	583.2	645.8	790.7	1526.5	3084.4	7675.7	14615.5	16447.3	16580.4
37.5°	512.8	528.4	579.3	673.2	1342.6	2943.5	7605.2	15261.4	17445.5	17629.4
40°	477.5	497.1	524.5	610.6	1205.6	2786.9	7507.4	15844.6	18056.1	18510.1
42.5°	450.1	465.8	489.3	583.2	1088.1	2630.3	7370.4	16666.5	18604.1	18999.4
45°	418.8	442.3	469.7	567.6	1021.6	2524.6	7268.6	16615.7	18921.1	19132.5
47.5°	387.5	426.6	458.0	528.4	1002.0	2473.8	7311.7	16423.9	18662.8	18517.9
50°	356.2	407.1	461.9	438.4	955.1	2372.0	7362.6	16686.1	18048.2	18020.8
52.5°	328.8	387.5	430.6	360.1	849.4	2274.1	7855.7	17030.6	18482.7	18118.7
55°	289.6	348.4	344.4	289.6	688.9	2199.8	8243.2	17038.4	18189.2	18326.1
57.5°	262.2	309.2	270.1	242.7	508.8	1839.7	7613.1	14286.7	15570.6	15813.2
60°	242.7	301.4	203.5	191.8	332.7	1326.9	6646.3	11065.4	12376.6	12834.6
62.5°	223.1	285.7	160.5	156.6	230.9	943.3	5464.2	9260.9	10666.1	11288.5
65°	195.7	203.5	129.2	121.3	164.4	508.8	3327.0	6376.2	7973.2	8204.1
67.5°	160.5	156.6	105.7	97.9	109.6	246.6	1467.8	3194.0	4622.6	5010.1
70°	129.2	129.2	90.0	78.3	78.3	113.5	383.6	1272.1	2090.2	2313.3
72.5°	93.9	97.9	70.5	62.6	58.7	54.8	62.6	254.4	548.0	700.6
75°	82.2	86.1	70.5	54.8	43.1	35.2	27.4	23.5	31.3	50.9
77.5°	90.0	90.0	74.4	50.9	39.1	27.4	15.7	7.8	7.8	3.9
80°	113.5	117.4	97.9	66.5	47.0	31.3	19.6	7.8	3.9	3.9
82.5°	121.3	133.1	109.6	82.2	58.7	35.2	19.6	3.9	0.0	0.0
85°	31.3	50.9	86.1	74.4	58.7	35.2	19.6	3.9	0.0	0.0
87.5°	0.0	3.9	11.7	11.7	15.7	15.7	11.7	3.9	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)