

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: P647120

Luminaire Tested: **GALN-SA8C-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31922.9 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

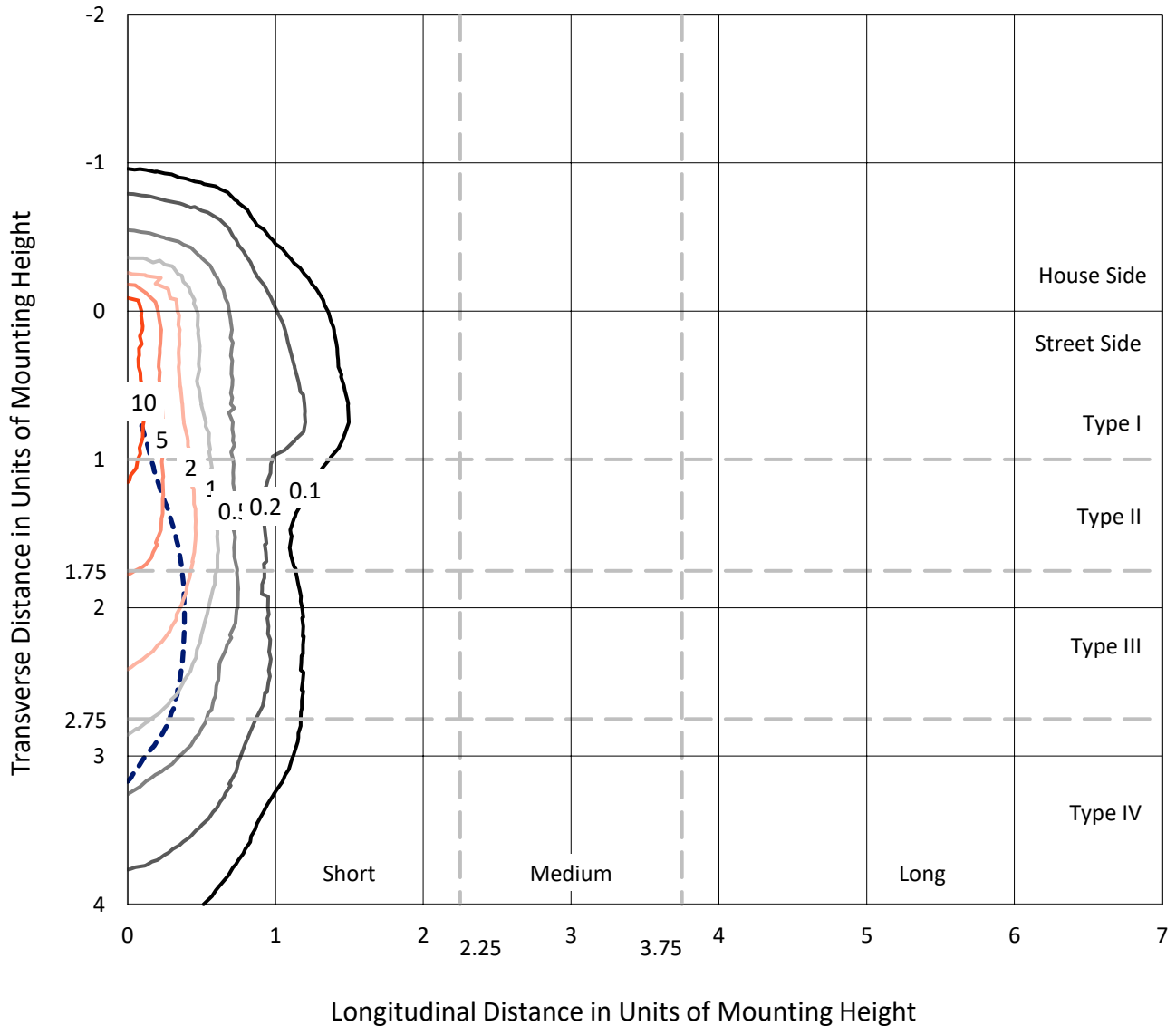
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

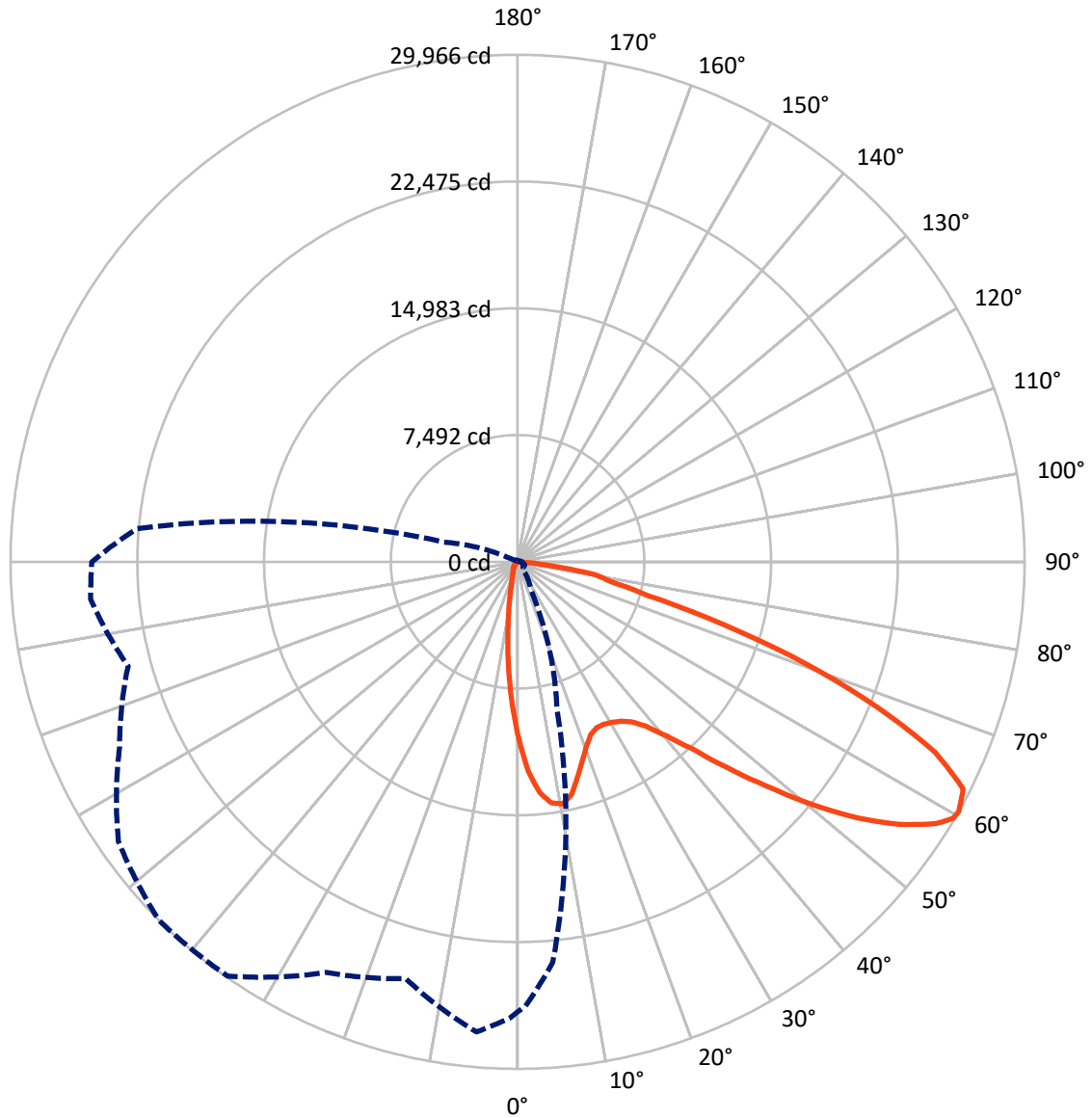
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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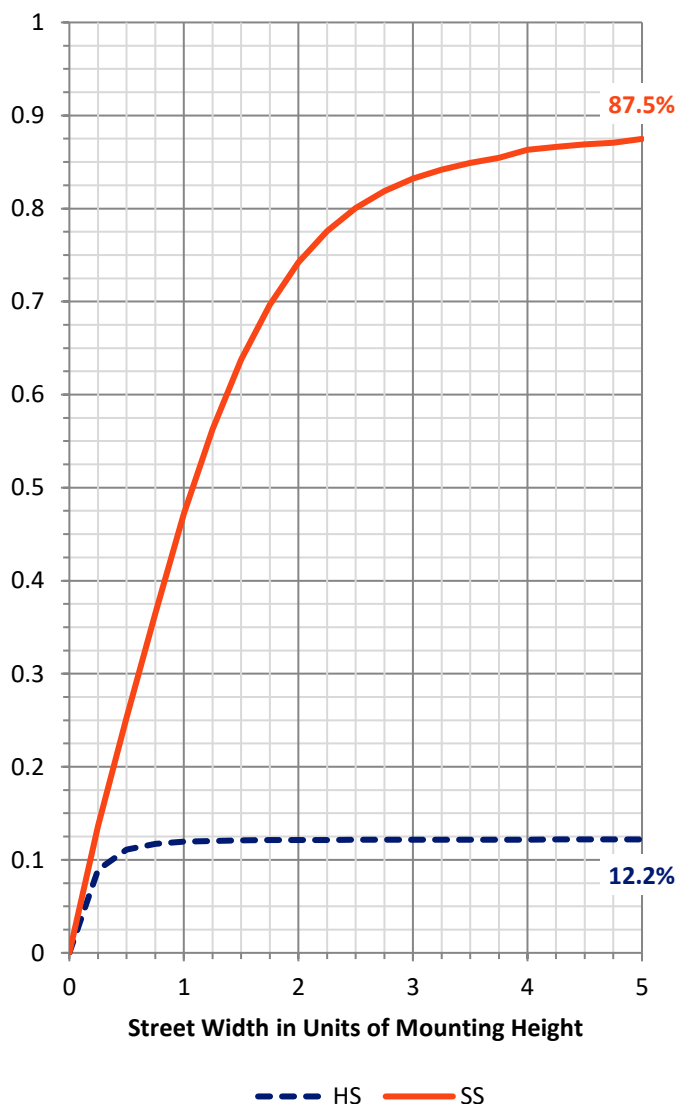
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3937.4	0.0	3937.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	27985.5	0.0	27985.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	31922.9	0.0	31922.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.7	2.5
10°-20°	1558.5	4.9
20°-30°	2285.2	7.2
30°-40°	3398.5	10.6
40°-50°	4945.9	15.5
50°-60°	7132.3	22.3
60°-70°	7844.8	24.6
70°-80°	3513.8	11.0
80°-90°	459.1	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°	31922.9	100.0
0°-180°	31922.9	100.0

Coefficient of Utilization



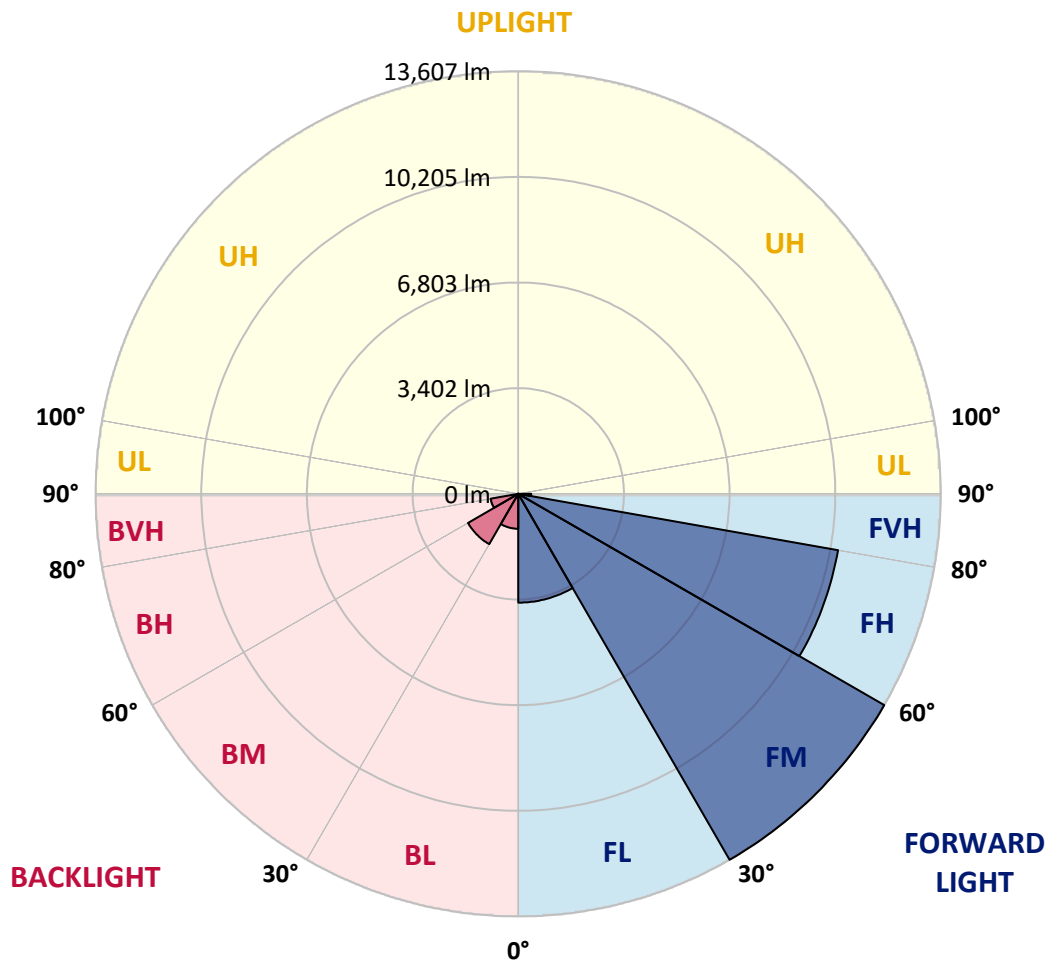
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3503.4	11.0			
FM (30°-60°)	13606.5	42.6			
FH (60°-80°)	10455.7	32.8			G4/12000
FVH (80°-90°)	419.9	1.3			G3/500
BL (0°-30°)	1125.0	3.5	B3/2500		
BM (30°-60°)	1870.2	5.9	B2/2500		
BH (60°-80°)	902.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	39.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0
2.5°	11599.3	11548.3	11431.9	11077.6	10769.4	10366.5	9958.9	9638.6	9442.0	9080.5	8915.4
5°	11237.7	11262.0	10924.7	10196.7	9386.2	8832.9	8228.7	7748.3	7219.2	6884.4	6532.5
7.5°	10293.8	10245.2	9878.8	8864.5	7879.3	7078.5	6314.1	5692.9	5302.2	4989.1	4727.0
10°	9485.7	9449.3	8980.9	7675.4	6617.4	6018.1	5501.2	4957.6	4537.8	4079.2	3712.8
12.5°	8978.5	8896.1	8357.3	6993.5	6132.1	5573.9	5011.0	4445.6	3865.6	3402.1	2958.1
15°	8808.7	8689.7	8090.3	6758.2	5821.4	5112.9	4406.7	3756.4	3089.1	2577.1	2242.2
17.5°	9116.9	8920.2	8282.1	6716.9	5450.2	4511.1	3642.4	2795.5	2101.5	1710.8	1504.5
20°	9823.0	9597.3	8767.4	6675.6	5037.7	3836.5	2768.8	1975.3	1453.6	1240.0	1126.0
22.5°	10871.3	10560.7	9485.7	6741.2	4656.7	3178.9	1999.5	1395.3	1155.1	1021.6	941.6
25°	12130.7	11871.1	10395.7	6974.1	4355.8	2662.0	1545.8	1140.5	973.1	890.6	829.9
27.5°	13511.4	13096.5	11572.6	7253.2	4081.6	2261.6	1356.5	1019.2	866.3	791.1	759.5
30°	14494.3	14171.5	12557.8	7447.3	3739.5	1960.7	1240.0	1004.6	868.7	778.9	720.7
32.5°	15464.9	15052.4	13382.9	7537.1	3489.5	1752.0	1072.6	876.0	761.9	715.8	657.6
35°	16503.5	16071.5	14205.5	7488.6	3302.6	1613.7	973.1	781.4	652.8	575.1	516.9
37.5°	17554.2	17098.1	15023.3	7313.8	3186.2	1557.9	895.4	742.5	616.4	536.3	473.2
40°	18801.5	18192.5	15790.1	7170.7	3064.8	1528.8	844.5	718.2	589.7	504.7	441.6
42.5°	19820.7	19240.7	16515.7	7095.5	2982.3	1460.8	844.5	698.9	572.7	478.0	412.6
45°	20786.5	20184.7	17299.4	7156.2	2948.4	1375.9	854.2	696.5	560.5	458.6	393.1
47.5°	21594.6	21072.8	18105.1	7384.2	2904.7	1283.7	803.2	730.4	553.3	441.6	373.7
50°	22548.2	22043.5	19170.3	7845.3	2827.0	1191.5	740.1	786.2	550.8	427.0	356.7
52.5°	23892.5	23346.6	20640.9	8369.4	2703.2	1050.7	681.9	778.9	541.1	402.9	339.7
55°	25535.4	25093.7	22344.4	8997.9	2533.4	893.0	589.7	691.6	512.0	361.6	310.6
57.5°	26588.6	26212.4	23620.8	9269.7	2273.8	730.4	519.3	580.0	468.3	322.8	276.6
59°	26712.4	26372.6	23887.7	9180.0	2103.9	667.4	485.3	497.4	456.2	300.9	257.2
60°	26608.0	26256.1	23781.0	9005.2	1946.1	623.7	456.2	441.6	458.6	288.8	242.7
62.5°	25938.2	25336.4	22744.8	8119.5	1701.1	572.7	405.3	361.6	405.3	259.6	216.0
65°	24644.8	23742.1	20694.3	6872.2	1604.0	543.6	344.6	303.3	308.2	228.1	186.8
67.5°	22385.7	21247.6	17964.3	5583.7	1562.7	546.0	291.2	271.8	237.8	194.1	165.0
70°	18813.6	17677.9	14414.2	4593.6	1543.4	546.0	247.5	232.9	199.0	162.6	143.1
72.5°	13331.9	12108.9	9723.5	3608.4	1390.5	543.6	211.1	211.1	162.6	135.9	116.5
75°	7532.2	7541.9	6112.6	2552.8	1155.1	448.9	169.8	167.4	118.9	104.4	87.4
77.5°	4389.7	4312.1	4120.4	1096.8	536.3	203.8	118.9	101.9	82.5	75.2	63.1
80°	2256.8	1856.3	1807.9	398.0	191.7	128.6	82.5	58.3	53.4	48.5	43.7
82.5°	667.4	669.8	597.0	160.1	106.8	85.0	41.3	31.6	29.1	26.7	26.7
85°	46.1	29.1	34.0	48.5	65.5	34.0	2.4	7.3	7.3	9.7	12.1
87.5°	4.9	2.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0
2.5°	8733.4	8840.2	8641.2	8646.0	8481.1	8534.5	8340.3	8403.4	8289.4	8376.7	8633.9
5°	6571.3	6595.6	6435.4	6384.4	6408.7	6508.2	6547.1	6369.9	6445.1	6297.1	6287.4
7.5°	4630.0	4659.2	4566.9	4554.8	4729.5	4688.2	4763.5	4581.5	4409.2	4484.4	4346.1
10°	3596.2	3475.0	3285.6	3232.3	3198.3	3220.2	3220.2	3055.1	3030.8	2965.4	3064.8
12.5°	2839.2	2691.1	2511.6	2268.9	2208.2	2203.4	2113.6	1968.0	1921.9	1866.0	1948.6
15°	2062.7	2002.0	1851.5	1715.6	1577.3	1550.7	1405.0	1286.1	1128.4	1106.5	1099.3
17.5°	1451.1	1361.3	1358.9	1281.2	1201.2	1147.8	1011.9	876.0	815.3	808.1	808.1
20°	1087.1	1055.6	1004.6	994.9	970.7	910.0	788.6	715.8	686.8	689.2	698.9
22.5°	914.9	893.0	846.9	825.0	815.3	761.9	672.2	623.7	609.1	609.1	611.5
25°	817.8	798.3	747.4	713.4	701.3	662.5	592.1	555.7	543.6	543.6	543.6
27.5°	744.9	720.7	667.4	638.2	616.4	572.7	529.0	492.6	480.4	480.4	482.9
30°	694.1	667.4	618.8	580.0	546.0	507.1	470.7	439.2	424.6	422.3	424.6
32.5°	626.1	601.8	553.3	529.0	490.2	444.0	415.0	385.9	371.3	373.7	371.3
35°	487.7	480.4	446.5	453.7	431.9	393.1	366.4	334.9	317.9	315.5	320.3
37.5°	444.0	415.0	376.2	378.6	371.3	356.7	313.0	279.1	266.9	266.9	269.4
40°	410.1	381.0	337.3	315.5	317.9	317.9	271.8	235.4	223.2	220.8	225.7
42.5°	381.0	351.9	303.3	266.9	257.2	269.4	230.5	194.1	182.0	177.1	182.0
45°	361.6	330.0	274.2	232.9	203.8	218.4	189.3	160.1	145.6	145.6	143.1
47.5°	342.2	313.0	252.4	201.4	169.8	162.6	155.3	128.6	114.1	111.7	114.1
50°	325.2	296.1	228.1	174.7	143.1	126.2	126.2	101.9	92.2	87.4	89.8
52.5°	308.2	276.6	206.2	155.3	123.8	101.9	89.8	82.5	75.2	72.8	75.2
55°	283.9	252.4	184.4	133.5	106.8	85.0	70.4	68.0	63.1	58.3	63.1
57.5°	254.8	225.7	162.6	114.1	85.0	65.5	58.3	55.8	51.0	48.5	48.5
59°	237.8	211.1	150.4	99.5	75.2	58.3	53.4	51.0	46.1	41.3	43.7
60°	228.1	206.2	143.1	92.2	68.0	53.4	48.5	46.1	41.3	38.8	41.3
62.5°	201.4	184.4	126.2	75.2	53.4	38.8	34.0	36.4	34.0	31.6	34.0
65°	177.1	162.6	106.8	58.3	41.3	26.7	24.3	31.6	29.1	26.7	29.1
67.5°	157.7	140.8	89.8	43.7	29.1	14.6	17.0	26.7	26.7	24.3	26.7
70°	135.9	121.4	72.8	31.6	14.6	7.3	12.1	19.4	24.3	21.8	24.3
72.5°	111.7	94.7	55.8	21.8	7.3	0.0	7.3	17.0	24.3	21.8	24.3
75°	87.4	70.4	41.3	12.1	0.0	0.0	2.4	14.6	24.3	21.8	24.3
77.5°	63.1	51.0	24.3	2.4	0.0	0.0	2.4	14.6	24.3	21.8	24.3
80°	41.3	36.4	9.7	0.0	0.0	0.0	2.4	14.6	24.3	24.3	26.7
82.5°	26.7	19.4	0.0	0.0	0.0	0.0	4.9	19.4	26.7	29.1	29.1
85°	12.1	0.0	0.0	0.0	0.0	0.0	9.7	24.3	31.6	31.6	31.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.9	17.0	29.1	36.4	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0
2.5°	8677.6	8830.5	9046.5	9378.9	9648.3	10072.9	10398.1	10842.2	11291.1	11427.0	11638.1
5°	6386.9	6583.5	7073.6	7520.1	7801.6	8699.4	9267.3	10162.7	10965.9	11351.8	11771.5
7.5°	4435.9	4668.8	5042.5	5666.2	6258.3	6988.7	7906.0	8930.0	10106.9	10657.7	11249.8
10°	3113.4	3404.6	3931.1	4443.1	5188.2	5882.1	6787.3	7918.1	9216.3	9866.7	10609.2
12.5°	1965.6	2225.2	2921.7	3496.8	4426.1	5231.8	6066.6	7090.6	8595.1	9262.4	10041.3
15°	1123.5	1341.9	1667.1	2404.7	3436.1	4501.4	5542.4	6731.5	8277.2	9099.9	9941.9
17.5°	837.2	895.4	1041.0	1458.4	2397.5	3642.4	5059.5	6622.3	8493.2	9459.0	10419.9
20°	703.8	742.5	810.5	975.5	1528.8	2805.2	4588.8	6641.7	9192.0	10405.4	11317.8
22.5°	630.9	655.2	711.0	817.8	1043.4	2043.2	4037.9	6755.7	10038.9	11567.7	12620.9
25°	553.3	584.8	633.4	725.5	868.7	1417.2	3494.4	7010.5	11225.6	13043.1	14033.2
27.5°	492.6	521.7	570.3	655.2	761.9	1082.3	2861.0	7228.9	12477.7	14528.3	15338.7
30°	431.9	461.0	509.6	577.5	674.6	876.0	2179.1	7357.5	13693.5	15642.1	16265.7
32.5°	381.0	405.3	451.3	512.0	592.1	742.5	1718.1	7224.0	14622.8	16653.9	17071.4
35°	330.0	359.2	398.0	453.7	524.1	633.4	1429.3	6763.0	15421.2	17694.9	17845.4
37.5°	276.6	310.6	351.9	402.9	458.6	582.4	1147.8	6253.4	16275.4	18993.2	18745.7
40°	232.9	264.5	303.3	359.2	410.1	533.8	883.3	5709.9	17197.5	20211.4	19728.5
42.5°	189.3	223.2	269.4	320.3	405.3	465.9	684.3	5146.9	18025.0	21271.8	20616.6
45°	150.4	179.5	228.1	293.6	402.9	400.4	529.0	4591.2	18648.6	22028.9	21279.1
47.5°	118.9	143.1	191.7	286.3	371.3	339.7	424.6	4246.6	19303.8	22710.8	21786.3
50°	94.7	118.9	165.0	298.5	325.2	291.2	356.7	4302.4	19937.1	23057.8	21994.9
52.5°	80.1	104.4	143.1	235.4	249.9	254.8	313.0	4559.6	20755.0	23429.1	22409.9
55°	70.4	92.2	121.4	165.0	194.1	228.1	286.3	4746.5	21849.4	24225.0	23324.7
57.5°	55.8	80.1	109.2	140.8	160.1	199.0	264.5	4761.0	22839.4	25246.7	24540.5
59°	51.0	72.8	101.9	133.5	143.1	179.5	249.9	4637.3	22875.8	25399.5	25098.6
60°	46.1	70.4	97.1	123.8	135.9	169.8	237.8	4494.1	22545.8	25156.9	25329.1
62.5°	38.8	60.7	85.0	99.5	116.5	140.8	206.2	3974.8	20946.7	24057.6	24902.1
65°	34.0	53.4	72.8	82.5	97.1	121.4	182.0	3181.3	19180.1	22567.6	23679.0
67.5°	31.6	48.5	63.1	70.4	85.0	111.7	162.6	2247.1	16891.7	20677.3	21842.1
70°	29.1	46.1	55.8	65.5	75.2	94.7	138.4	1310.4	13011.6	17362.6	18592.8
72.5°	29.1	43.7	48.5	55.8	65.5	85.0	128.6	708.5	8896.1	13244.5	14834.0
75°	29.1	41.3	43.7	48.5	58.3	77.7	114.1	371.3	5751.1	9201.7	11356.6
77.5°	29.1	38.8	43.7	46.1	55.8	68.0	99.5	232.9	3831.6	6445.1	7675.4
80°	31.6	38.8	41.3	46.1	53.4	63.1	82.5	155.3	2251.9	3877.7	4671.2
82.5°	34.0	38.8	43.7	48.5	55.8	60.7	72.8	97.1	1038.6	2565.0	2902.3
85°	36.4	41.3	46.1	51.0	58.3	60.7	68.0	70.4	169.8	1157.5	1565.1
87.5°	38.8	43.7	48.5	53.4	63.1	63.1	63.1	63.1	58.3	123.8	315.5
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: P647120

CATALOG NUMBER: GALN-SA8C-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0	10551.0
2.5°	11905.0	12179.3	12370.9	12419.5	12281.2	12218.1	12043.3	11771.5	11606.6	11599.3
5°	12545.7	13188.7	13635.2	13710.5	13443.5	12992.2	12455.9	11764.3	11359.1	11237.7
7.5°	12436.5	13562.4	14280.7	14385.0	13936.1	13074.7	12036.0	10922.2	10480.6	10293.8
10°	11987.6	13361.0	14387.5	14552.5	13953.1	12739.8	11419.7	10177.3	9628.9	9485.7
12.5°	11604.1	12992.2	13904.6	14132.7	13678.9	12468.0	11050.9	9699.3	9112.0	8978.5
15°	11436.7	12555.4	13113.5	13230.0	13154.7	12298.1	11012.0	9626.4	8954.2	8808.7
17.5°	11604.1	12184.1	12254.5	12373.4	12540.8	12281.2	11385.8	10022.0	9296.4	9116.9
20°	12043.3	11861.4	11570.2	11621.1	12004.6	12351.5	12050.6	10898.0	10014.7	9823.0
22.5°	12790.8	11781.3	11121.3	11077.6	11562.9	12586.9	13026.1	12084.6	11060.6	10871.3
25°	13708.1	11982.7	10956.2	10861.6	11390.6	12931.5	14086.6	13538.1	12419.5	12130.7
27.5°	14707.8	12400.1	10956.2	10864.0	11376.1	13237.2	14994.1	14824.3	13826.9	13511.4
30°	15256.2	12744.7	11114.0	11009.6	11555.6	13414.4	15479.4	15967.2	14884.9	14494.3
32.5°	15746.4	13222.7	11422.2	11225.6	11931.7	13676.5	15913.8	16937.9	15726.9	15464.9
35°	16197.8	13734.7	11846.8	11618.7	12426.8	14035.6	16394.3	17957.0	16899.0	16503.5
37.5°	16695.2	14329.2	12509.3	12315.1	13254.2	14734.5	16964.6	19296.6	18051.7	17554.2
40°	17236.3	15018.4	13598.8	13516.3	14569.4	15525.6	17685.2	20725.9	19366.9	18801.5
42.5°	17787.2	15811.9	14933.5	15069.4	16059.4	16634.5	18425.4	21825.1	20444.4	19820.7
45°	18287.0	16826.2	16668.5	17340.7	17796.9	17716.8	18973.8	22599.2	21383.4	20786.5
47.5°	18918.0	18304.0	18767.6	19803.7	19815.9	18893.7	19388.7	23232.5	22191.6	21594.6
50°	19624.2	20048.8	21478.1	22533.6	22249.7	20051.2	19874.1	23982.4	23026.3	22548.2
52.5°	20441.9	22002.2	23982.4	25154.4	24491.9	21313.1	20682.2	24792.8	24351.2	23892.5
55°	21393.1	23334.4	26479.3	27413.6	26746.3	22880.7	21910.0	25892.1	25848.5	25535.4
57.5°	22468.2	24741.9	27925.6	29189.9	28595.4	24720.1	23625.6	26928.3	26763.3	26588.6
59°	23317.5	25465.0	28563.8	29874.2	29515.1	26008.6	24778.3	27573.7	26974.4	26712.4
60°	23831.9	25955.2	28799.2	29966.4	29883.9	26775.4	25508.7	27889.2	26972.0	26608.0
62.5°	25358.2	26811.8	28709.4	29556.3	29879.0	28245.9	27651.4	28236.2	26472.1	25938.2
65°	25901.8	26527.9	27221.9	27117.6	27394.2	28170.7	29020.0	27855.2	25404.4	24644.8
67.5°	24843.8	23414.5	23659.6	22963.2	22827.3	25045.2	28464.3	25991.6	23315.1	22385.7
70°	20941.8	17937.7	17813.9	18134.2	17255.8	20276.9	25559.7	22402.6	19866.8	18813.6
72.5°	16484.1	12676.7	11633.3	12812.6	12785.9	15469.7	21233.0	15896.9	13421.7	13331.9
75°	12963.0	8825.7	7745.8	7937.5	8306.4	11198.9	16911.2	10094.7	8265.1	7532.2
77.5°	8701.9	6253.4	5833.6	5598.2	5996.2	7190.1	10699.0	5474.5	4634.9	4389.7
80°	5015.8	4542.7	5159.0	4683.4	4897.0	4530.5	5321.6	2511.6	2084.5	2256.8
82.5°	3263.8	2586.8	2756.6	2048.1	2800.3	2824.6	1708.3	742.5	628.5	667.4
85°	2040.8	1213.3	681.9	485.3	965.8	1776.3	533.8	46.1	53.4	46.1
87.5°	529.0	201.4	85.0	126.2	155.3	138.4	123.8	7.3	2.4	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)