

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: P648605

Luminaire Tested: **GALN-SA8B-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648605
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-SA8B-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA 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: 25837.4 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 325
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

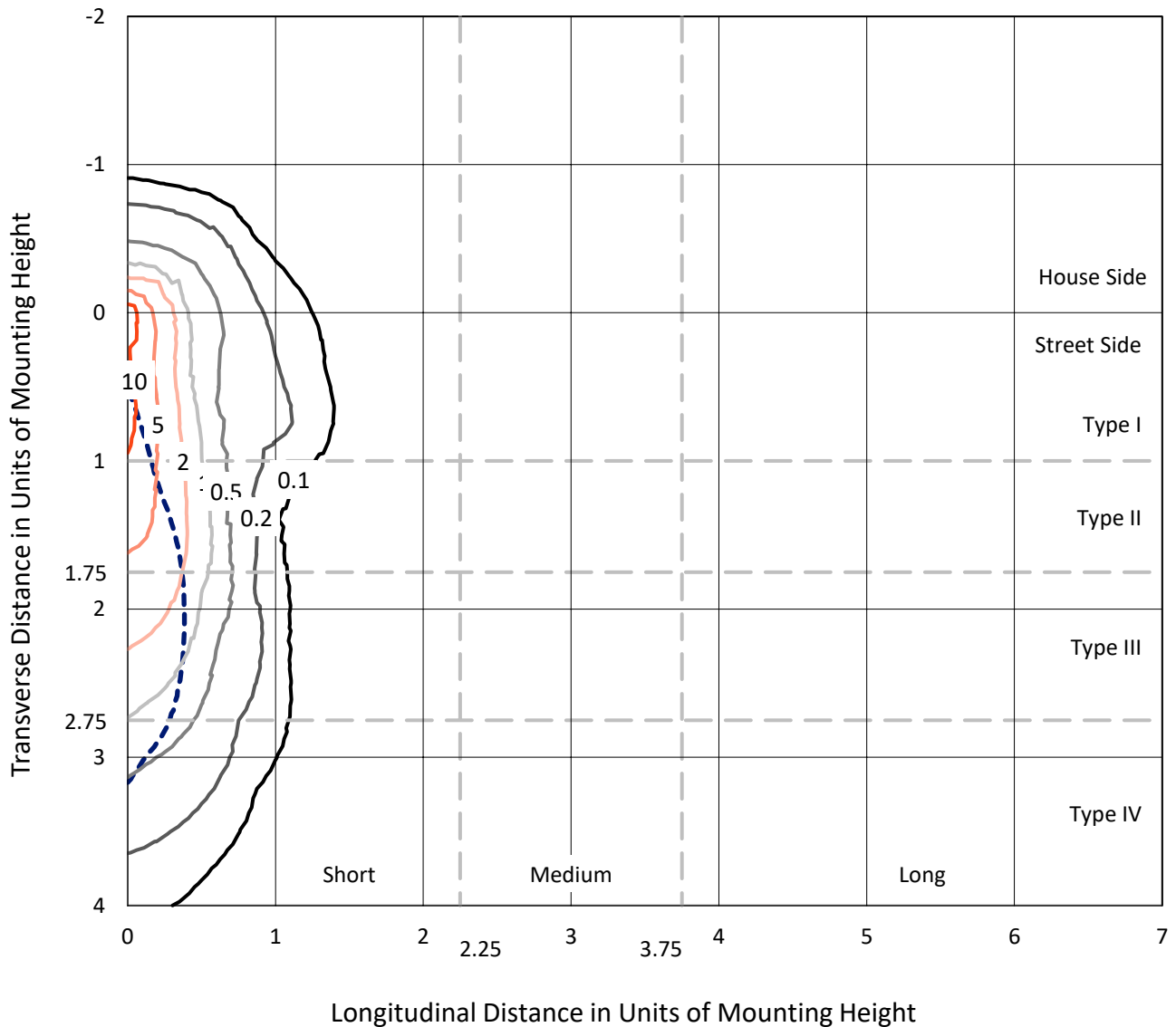




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Iso-Footcandle Lines of Horizontal Illumination

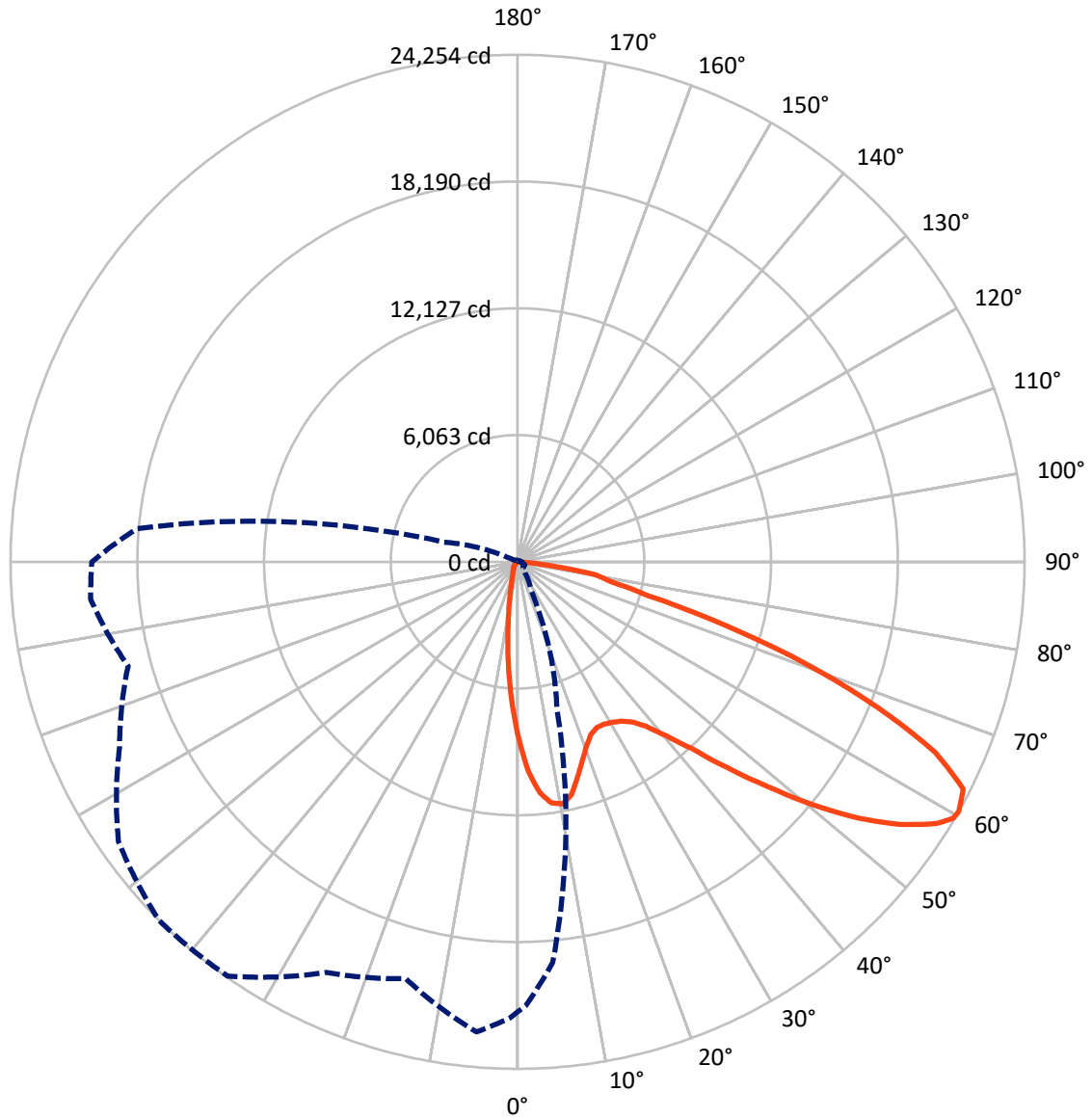
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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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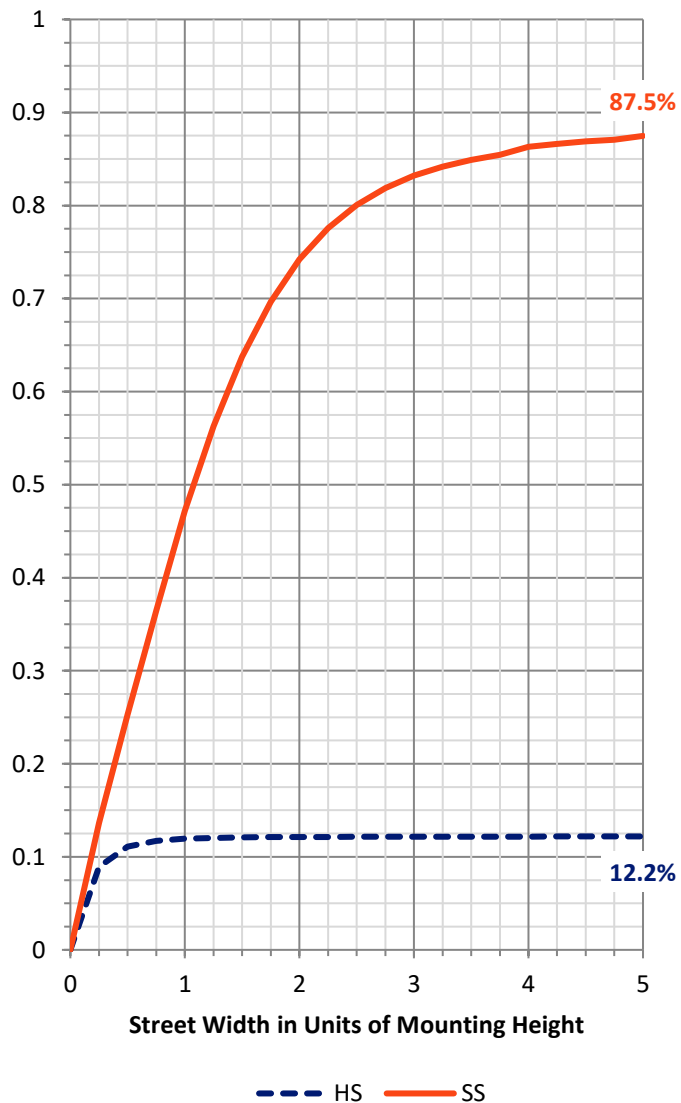
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3186.8	0.0	3186.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	22650.6	0.0	22650.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	25837.4	0.0	25837.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.2	2.5
10°-20°	1261.4	4.9
20°-30°	1849.6	7.2
30°-40°	2750.6	10.6
40°-50°	4003.0	15.5
50°-60°	5772.7	22.3
60°-70°	6349.3	24.6
70°-80°	2844.0	11.0
80°-90°	371.6	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°	25837.4	100.0
0°-180°	25837.4	100.0

Coefficient of Utilization



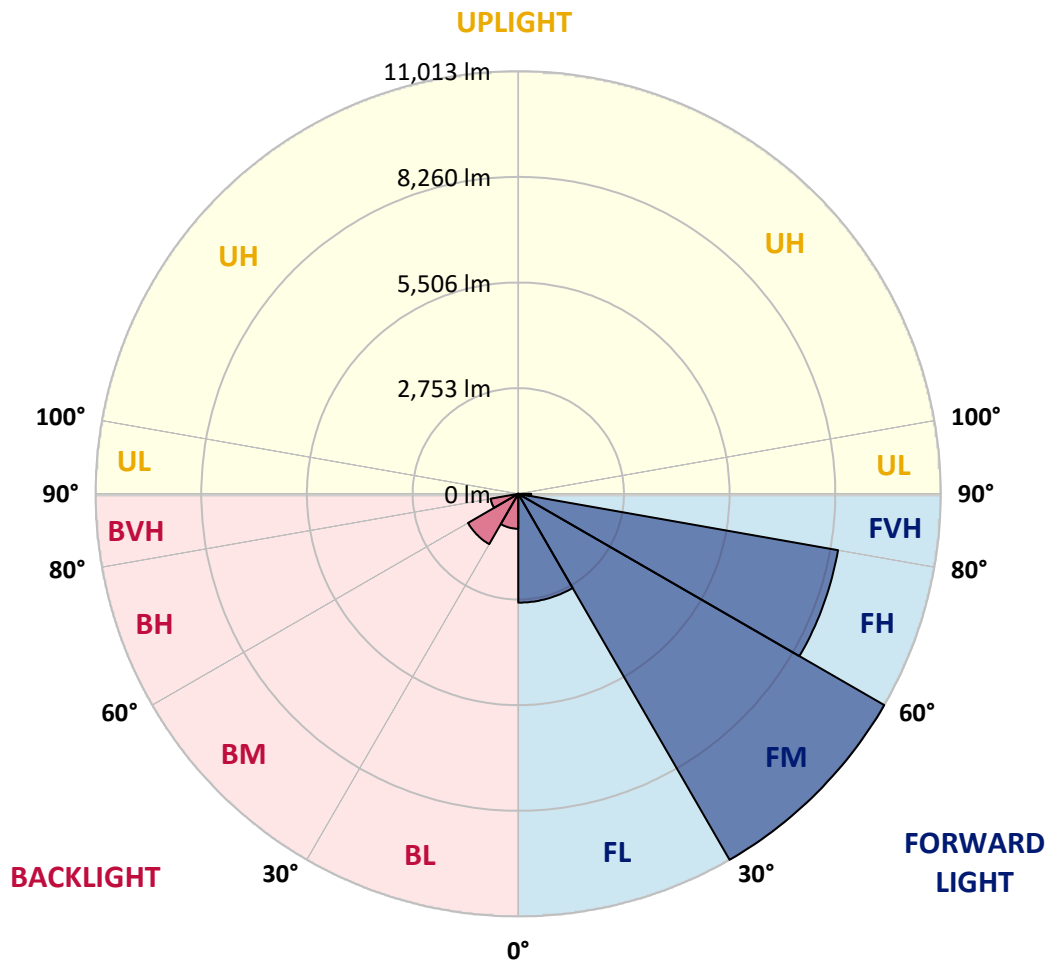
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2835.6	11.0			
FM (30°-60°)	11012.7	42.6			
FH (60°-80°)	8462.5	32.8			G4/12000
FVH (80°-90°)	339.8	1.3			G3/500
BL (0°-30°)	910.6	3.5	B2/1000		
BM (30°-60°)	1513.6	5.9	B2/2500		
BH (60°-80°)	730.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	31.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6
2.5°	9388.1	9346.8	9252.6	8965.8	8716.4	8390.4	8060.4	7801.2	7642.1	7349.4	7215.9
5°	9095.5	9115.1	8842.1	8252.9	7596.9	7149.1	6660.0	6271.2	5843.0	5572.0	5287.2
7.5°	8331.4	8292.2	7995.6	7174.6	6377.2	5729.1	5110.4	4607.6	4291.4	4038.1	3826.0
10°	7677.4	7648.0	7268.9	6212.2	5356.0	4870.8	4452.5	4012.6	3672.7	3301.5	3005.0
12.5°	7266.9	7200.2	6764.2	5660.4	4963.1	4511.4	4055.7	3598.1	3128.7	2753.6	2394.2
15°	7129.4	7033.2	6548.1	5469.9	4711.7	4138.2	3566.7	3040.3	2500.2	2085.8	1814.8
17.5°	7378.9	7219.8	6703.3	5436.4	4411.3	3651.1	2948.0	2262.6	1700.8	1384.7	1217.7
20°	7950.4	7767.8	7096.1	5403.1	4077.3	3105.1	2240.9	1598.7	1176.5	1003.6	911.3
22.5°	8798.9	8547.5	7677.4	5456.1	3769.0	2572.9	1618.4	1129.3	934.9	826.8	762.0
25°	9818.2	9608.1	8414.0	5644.6	3525.5	2154.6	1251.1	923.1	787.5	720.8	671.7
27.5°	10935.8	10599.9	9366.5	5870.5	3303.5	1830.5	1097.9	824.9	701.2	640.3	614.7
30°	11731.2	11470.0	10163.9	6027.6	3026.6	1586.9	1003.6	813.1	703.1	630.5	583.3
32.5°	12516.8	12182.9	10831.7	6100.3	2824.3	1418.0	868.1	709.0	616.7	579.4	532.3
35°	13357.4	13007.8	11497.5	6061.0	2673.1	1306.1	787.5	632.4	528.3	465.5	418.4
37.5°	14207.8	13838.6	12159.4	5919.6	2578.8	1260.9	724.7	601.0	498.8	434.0	383.0
40°	15217.4	14724.4	12780.0	5803.8	2480.5	1237.4	683.5	581.4	477.2	408.5	357.4
42.5°	16042.3	15572.9	13367.2	5742.8	2413.8	1182.3	683.5	565.6	463.5	386.9	333.9
45°	16823.9	16336.9	14001.6	5791.9	2386.3	1113.6	691.3	563.7	453.7	371.2	318.2
47.5°	17478.0	17055.7	14653.7	5976.6	2351.0	1039.0	650.1	591.2	447.8	357.4	302.5
50°	18249.9	17841.4	15515.9	6349.7	2288.1	964.3	599.0	636.3	445.8	345.7	288.7
52.5°	19337.9	18896.0	16706.1	6774.0	2187.9	850.4	551.9	630.5	438.0	326.0	275.0
55°	20667.6	20310.2	18084.9	7282.7	2050.4	722.8	477.2	559.8	414.4	292.6	251.4
57.5°	21520.0	21215.5	19118.0	7502.6	1840.3	591.2	420.3	469.4	379.1	261.2	223.9
59°	21620.1	21345.2	19334.0	7430.0	1702.8	540.1	392.8	402.6	369.3	243.5	208.2
60°	21535.7	21250.9	19247.5	7288.6	1575.2	504.7	369.3	357.4	371.2	233.7	196.4
62.5°	20993.6	20506.5	18409.0	6571.6	1376.8	463.5	328.0	292.6	328.0	210.2	174.8
65°	19946.8	19216.2	16749.3	5562.2	1298.2	440.0	278.9	245.5	249.5	184.6	151.2
67.5°	18118.2	17197.1	14539.8	4519.2	1264.9	441.9	235.7	219.9	192.5	157.1	133.6
70°	15227.2	14308.0	11666.4	3717.9	1249.1	441.9	200.4	188.5	161.1	131.6	115.9
72.5°	10790.4	9800.6	7869.9	2920.5	1125.4	440.0	170.9	170.9	131.6	110.0	94.3
75°	6096.4	6104.3	4947.4	2066.2	934.9	363.3	137.5	135.5	96.2	84.5	70.7
77.5°	3552.9	3490.1	3335.0	887.8	434.0	165.0	96.2	82.5	66.8	60.9	51.1
80°	1826.6	1502.5	1463.2	322.1	155.2	104.1	66.8	47.1	43.2	39.3	35.4
82.5°	540.1	542.1	483.2	129.7	86.4	68.7	33.4	25.5	23.6	21.6	21.6
85°	37.3	23.6	27.5	39.3	53.0	27.5	2.0	5.9	5.9	7.8	9.8
87.5°	3.9	2.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6
2.5°	7068.6	7155.0	6993.9	6997.9	6864.3	6907.5	6750.4	6801.5	6709.1	6779.8	6988.0
5°	5318.6	5338.3	5208.6	5167.4	5187.1	5267.6	5299.0	5155.6	5216.5	5096.7	5088.8
7.5°	3747.4	3770.9	3696.3	3686.5	3827.9	3794.5	3855.4	3708.1	3568.7	3629.5	3517.6
10°	2910.7	2812.5	2659.3	2616.1	2588.6	2606.3	2606.3	2472.7	2453.1	2400.1	2480.5
12.5°	2297.9	2178.1	2032.7	1836.4	1787.3	1783.4	1710.7	1592.9	1555.5	1510.3	1577.1
15°	1669.4	1620.3	1498.6	1388.6	1276.6	1255.0	1137.2	1040.9	913.3	895.6	889.7
17.5°	1174.5	1101.8	1099.9	1037.0	972.2	929.0	819.0	709.0	659.9	654.0	654.0
20°	879.9	854.3	813.1	805.2	785.6	736.5	638.3	579.4	555.9	557.8	565.6
22.5°	740.4	722.8	685.4	667.7	659.9	616.7	544.0	504.7	493.0	493.0	494.9
25°	661.9	646.1	604.9	577.5	567.6	536.2	479.2	449.8	440.0	440.0	440.0
27.5°	603.0	583.3	540.1	516.5	498.8	463.5	428.1	398.7	388.9	388.9	390.9
30°	561.7	540.1	500.8	469.4	441.9	410.4	381.0	355.5	343.7	341.8	343.7
32.5°	506.8	487.1	447.8	428.1	396.7	359.4	335.8	312.3	300.5	302.5	300.5
35°	394.8	388.9	361.4	367.3	349.6	318.2	296.6	271.1	257.3	255.3	259.3
37.5°	359.4	335.8	304.4	306.4	300.5	288.7	253.4	225.9	216.0	216.0	218.0
40°	331.9	308.3	273.0	255.3	257.3	257.3	219.9	190.5	180.7	178.8	182.7
42.5°	308.3	284.8	245.5	216.0	208.2	218.0	186.6	157.1	147.3	143.4	147.3
45°	292.6	267.1	221.9	188.5	165.0	176.8	153.2	129.7	117.8	117.8	115.9
47.5°	276.9	253.4	204.3	163.0	137.5	131.6	125.7	104.1	92.3	90.4	92.3
50°	263.2	239.6	184.6	141.4	115.9	102.1	102.1	82.5	74.6	70.7	72.7
52.5°	249.5	223.9	166.9	125.7	100.1	82.5	72.7	66.8	60.9	59.0	60.9
55°	229.8	204.3	149.2	108.1	86.4	68.7	56.9	55.0	51.1	47.1	51.1
57.5°	206.2	182.7	131.6	92.3	68.7	53.0	47.1	45.2	41.3	39.3	39.3
59°	192.5	170.9	121.8	80.5	60.9	47.1	43.2	41.3	37.3	33.4	35.4
60°	184.6	166.9	115.9	74.6	55.0	43.2	39.3	37.3	33.4	31.4	33.4
62.5°	163.0	149.2	102.1	60.9	43.2	31.4	27.5	29.4	27.5	25.5	27.5
65°	143.4	131.6	86.4	47.1	33.4	21.6	19.7	25.5	23.6	21.6	23.6
67.5°	127.6	113.9	72.7	35.4	23.6	11.8	13.8	21.6	21.6	19.7	21.6
70°	110.0	98.2	59.0	25.5	11.8	5.9	9.8	15.7	19.7	17.7	19.7
72.5°	90.4	76.6	45.2	17.7	5.9	0.0	5.9	13.8	19.7	17.7	19.7
75°	70.7	56.9	33.4	9.8	0.0	0.0	2.0	11.8	19.7	17.7	19.7
77.5°	51.1	41.3	19.7	2.0	0.0	0.0	2.0	11.8	19.7	17.7	19.7
80°	33.4	29.4	7.8	0.0	0.0	0.0	2.0	11.8	19.7	19.7	21.6
82.5°	21.6	15.7	0.0	0.0	0.0	0.0	3.9	15.7	21.6	23.6	23.6
85°	9.8	0.0	0.0	0.0	0.0	0.0	7.8	19.7	25.5	25.5	25.5
87.5°	0.0	0.0	0.0	0.0	0.0	3.9	13.8	23.6	29.4	29.4	29.4
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°	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6
2.5°	7023.4	7147.1	7321.9	7591.0	7809.0	8152.8	8415.9	8775.3	9138.7	9248.6	9419.6
5°	5169.4	5328.5	5725.1	6086.6	6314.3	7041.0	7500.7	8225.4	8875.5	9187.8	9527.5
7.5°	3590.3	3778.8	4081.3	4586.0	5065.2	5656.5	6398.8	7227.6	8180.2	8626.1	9105.3
10°	2519.9	2755.5	3181.7	3596.2	4199.2	4760.8	5493.4	6408.6	7459.4	7985.8	8586.8
12.5°	1590.9	1801.1	2364.7	2830.2	3582.4	4234.5	4910.1	5738.9	6956.6	7496.8	8127.2
15°	909.4	1086.1	1349.3	1946.4	2781.1	3643.3	4485.9	5448.3	6699.3	7365.1	8046.7
17.5°	677.6	724.7	842.6	1180.4	1940.5	2948.0	4095.0	5359.9	6874.1	7655.9	8433.6
20°	569.6	601.0	656.0	789.6	1237.4	2270.5	3714.0	5375.6	7439.8	8421.8	9160.2
22.5°	510.7	530.3	575.4	661.9	844.5	1653.7	3268.2	5467.8	8125.2	9362.6	10214.9
25°	447.8	473.3	512.6	587.2	703.1	1147.0	2828.2	5674.1	9085.6	10556.7	11358.0
27.5°	398.7	422.3	461.6	530.3	616.7	875.9	2315.6	5850.9	10099.1	11758.7	12414.7
30°	349.6	373.2	412.5	467.5	546.0	709.0	1763.7	5954.9	11083.1	12660.2	13165.0
32.5°	308.3	328.0	365.3	414.4	479.2	601.0	1390.5	5847.0	11835.3	13479.2	13817.1
35°	267.1	290.6	322.1	367.3	424.2	512.6	1156.8	5473.8	12481.5	14321.8	14443.5
37.5°	223.9	251.4	284.8	326.0	371.2	471.4	929.0	5061.3	13172.8	15372.6	15172.2
40°	188.5	214.1	245.5	290.6	331.9	432.1	714.9	4621.4	13919.2	16358.5	15967.6
42.5°	153.2	180.7	218.0	259.3	328.0	377.1	553.9	4165.7	14588.9	17216.8	16686.5
45°	121.8	145.3	184.6	237.6	326.0	324.1	428.1	3716.0	15093.7	17829.5	17222.6
47.5°	96.2	115.9	155.2	231.8	300.5	275.0	343.7	3437.1	15623.9	18381.5	17633.2
50°	76.6	96.2	133.6	241.6	263.2	235.7	288.7	3482.2	16136.5	18662.3	17802.1
52.5°	64.8	84.5	115.9	190.5	202.3	206.2	253.4	3690.4	16798.4	18962.8	18137.9
55°	56.9	74.6	98.2	133.6	157.1	184.6	231.8	3841.6	17684.2	19607.0	18878.4
57.5°	45.2	64.8	88.4	113.9	129.7	161.1	214.1	3853.5	18485.5	20433.9	19862.4
59°	41.3	59.0	82.5	108.1	115.9	145.3	202.3	3753.3	18515.0	20557.6	20314.1
60°	37.3	56.9	78.5	100.1	110.0	137.5	192.5	3637.4	18247.9	20361.2	20500.7
62.5°	31.4	49.1	68.7	80.5	94.3	113.9	166.9	3217.1	16953.6	19471.5	20155.0
65°	27.5	43.2	59.0	66.8	78.5	98.2	147.3	2574.8	15523.8	18265.6	19165.1
67.5°	25.5	39.3	51.1	56.9	68.7	90.4	131.6	1818.7	13671.6	16735.6	17678.3
70°	23.6	37.3	45.2	53.0	60.9	76.6	112.0	1060.6	10531.2	14052.7	15048.5
72.5°	23.6	35.4	39.3	45.2	53.0	68.7	104.1	573.5	7200.2	10719.7	12006.2
75°	23.6	33.4	35.4	39.3	47.1	62.9	92.3	300.5	4654.8	7447.7	9191.7
77.5°	23.6	31.4	35.4	37.3	45.2	55.0	80.5	188.5	3101.2	5216.5	6212.2
80°	25.5	31.4	33.4	37.3	43.2	51.1	66.8	125.7	1822.6	3138.5	3780.8
82.5°	27.5	31.4	35.4	39.3	45.2	49.1	59.0	78.5	840.6	2076.0	2349.0
85°	29.4	33.4	37.3	41.3	47.1	49.1	55.0	56.9	137.5	936.9	1266.8
87.5°	31.4	35.4	39.3	43.2	51.1	51.1	51.1	51.1	47.1	100.1	255.3
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: P648605

CATALOG NUMBER: GALN-SA8B-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6	8539.6
2.5°	9635.6	9857.5	10012.7	10051.9	9940.0	9888.9	9747.5	9527.5	9394.0	9388.1
5°	10154.1	10674.6	11035.9	11096.8	10880.8	10515.5	10081.4	9521.7	9193.7	9095.5
7.5°	10065.7	10977.0	11558.3	11642.8	11279.5	10582.2	9741.6	8840.1	8482.7	8331.4
10°	9702.4	10814.0	11644.8	11778.4	11293.2	10311.2	9242.8	8237.2	7793.3	7677.4
12.5°	9392.0	10515.5	11254.0	11438.5	11071.3	10091.2	8944.2	7850.3	7375.0	7266.9
15°	9256.5	10161.9	10613.6	10707.9	10647.1	9953.7	8912.8	7791.3	7247.3	7129.4
17.5°	9392.0	9861.4	9918.4	10014.6	10150.2	9940.0	9215.3	8111.5	7524.2	7378.9
20°	9747.5	9600.2	9364.5	9405.8	9716.1	9997.0	9753.4	8820.5	8105.6	7950.4
22.5°	10352.4	9535.4	9001.2	8965.8	9358.7	10187.5	10542.9	9780.9	8952.1	8798.9
25°	11094.9	9698.4	8867.6	8791.1	9219.2	10466.4	11401.3	10957.4	10051.9	9818.2
27.5°	11904.0	10036.3	8867.6	8793.0	9207.5	10713.9	12135.8	11998.3	11191.1	10935.8
30°	12347.9	10315.2	8995.3	8910.9	9352.8	10857.2	12528.6	12923.4	12047.4	11731.2
32.5°	12744.7	10702.0	9244.7	9085.6	9657.2	11069.3	12880.2	13709.0	12728.9	12516.8
35°	13109.9	11116.5	9588.5	9403.8	10057.9	11360.0	13269.0	14533.9	13677.6	13357.4
37.5°	13512.6	11597.6	10124.6	9967.5	10727.6	11925.6	13730.6	15618.0	14610.5	14207.8
40°	13950.6	12155.4	11006.5	10939.7	11792.1	12565.9	14313.9	16774.8	15675.0	15217.4
42.5°	14396.4	12797.7	12086.7	12196.7	12998.0	13463.5	14912.9	17664.6	16547.1	16042.3
45°	14801.0	13618.6	13491.0	14035.0	14404.2	14339.5	15356.8	18291.1	17307.1	16823.9
47.5°	15311.6	14814.8	15189.9	16028.6	16038.3	15292.0	15692.7	18803.7	17961.2	17478.0
50°	15883.2	16226.9	17383.7	18238.0	18008.3	16228.8	16085.5	19410.6	18636.7	18249.9
52.5°	16545.0	17807.9	19410.6	20359.3	19823.1	17250.1	16739.5	20066.6	19709.1	19337.9
55°	17314.9	18886.2	21431.6	22187.7	21647.6	18518.9	17733.3	20956.3	20921.0	20667.6
57.5°	18185.0	20025.3	22602.2	23625.5	23144.2	20007.7	19121.9	21795.0	21661.4	21520.0
59°	18872.4	20610.6	23118.7	24179.3	23888.6	21050.6	20054.8	22317.4	21832.2	21620.1
60°	19288.8	21007.3	23309.2	24253.9	24187.1	21671.2	20646.0	22572.7	21830.3	21535.7
62.5°	20524.2	21700.7	23236.5	23922.0	24183.2	22861.4	22380.3	22853.6	21425.7	20993.6
65°	20964.1	21470.9	22032.6	21948.1	22172.1	22800.5	23488.0	22545.2	20561.5	19946.8
67.5°	20107.8	18951.0	19149.4	18585.7	18475.7	20270.9	23038.2	21036.8	18870.5	18118.2
70°	16949.7	14518.2	14418.0	14677.3	13966.3	16411.5	20687.3	18132.0	16079.6	15227.2
72.5°	13341.7	10260.1	9415.6	10370.1	10348.5	12520.7	17185.4	12866.4	10863.1	10790.4
75°	10491.9	7143.2	6269.2	6424.4	6722.9	9064.0	13687.4	8170.4	6689.5	6096.4
77.5°	7043.0	5061.3	4721.6	4531.1	4853.1	5819.4	8659.4	4430.8	3751.4	3552.9
80°	4059.7	3676.7	4175.6	3790.6	3963.5	3666.9	4307.1	2032.7	1687.1	1826.6
82.5°	2641.6	2093.7	2231.2	1657.6	2266.5	2286.1	1382.7	601.0	508.7	540.1
85°	1651.7	982.0	551.9	392.8	781.7	1437.7	432.1	37.3	43.2	37.3
87.5°	428.1	163.0	68.7	102.1	125.7	112.0	100.1	5.9	2.0	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)