

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: P648658

Luminaire Tested: **GALN-SA9B-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22329.6 lumens
Efficiency: N/A
Efficacy: 61.3 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

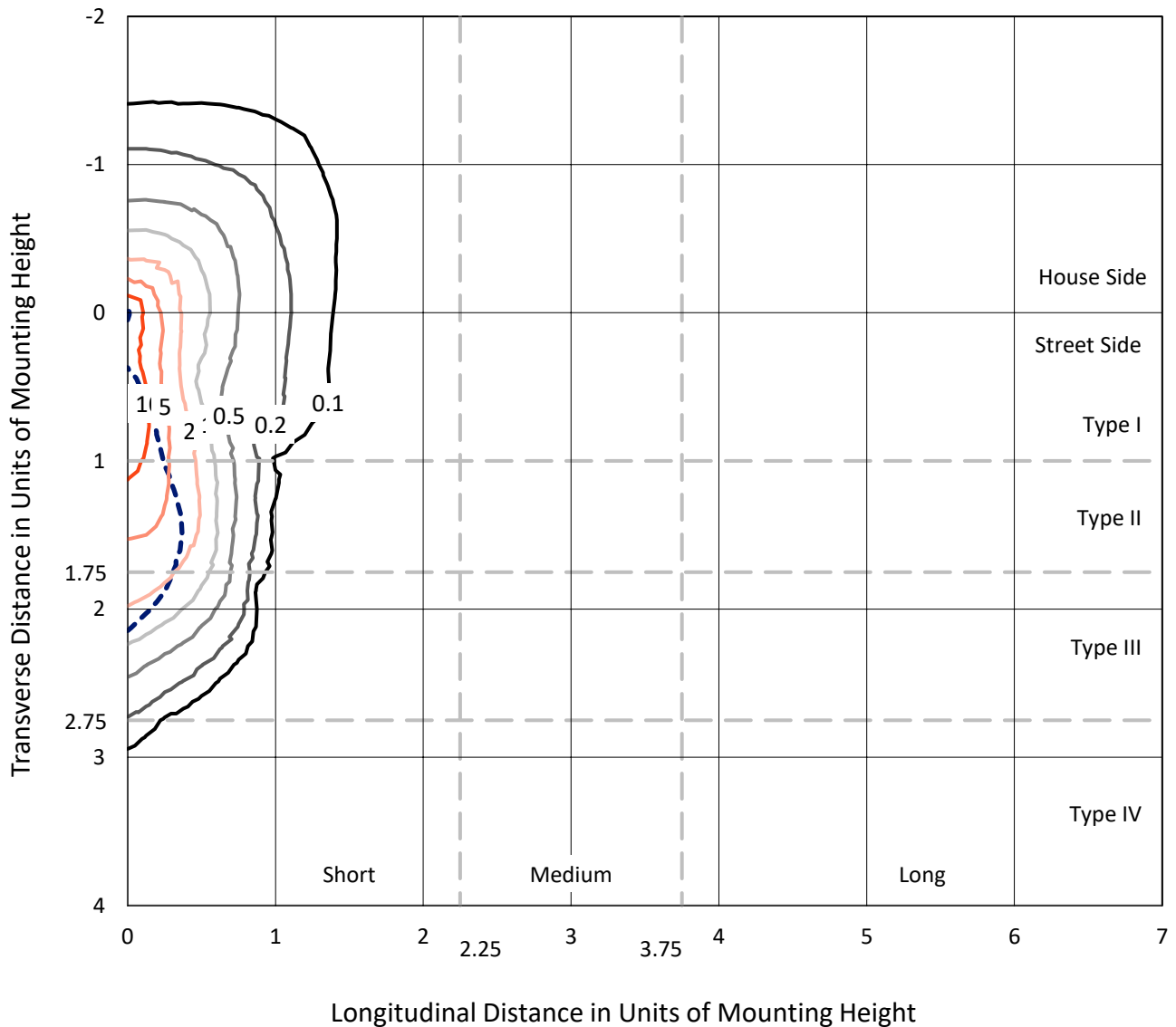
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648658
 CATALOG NUMBER: GALN-SA9B-835-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

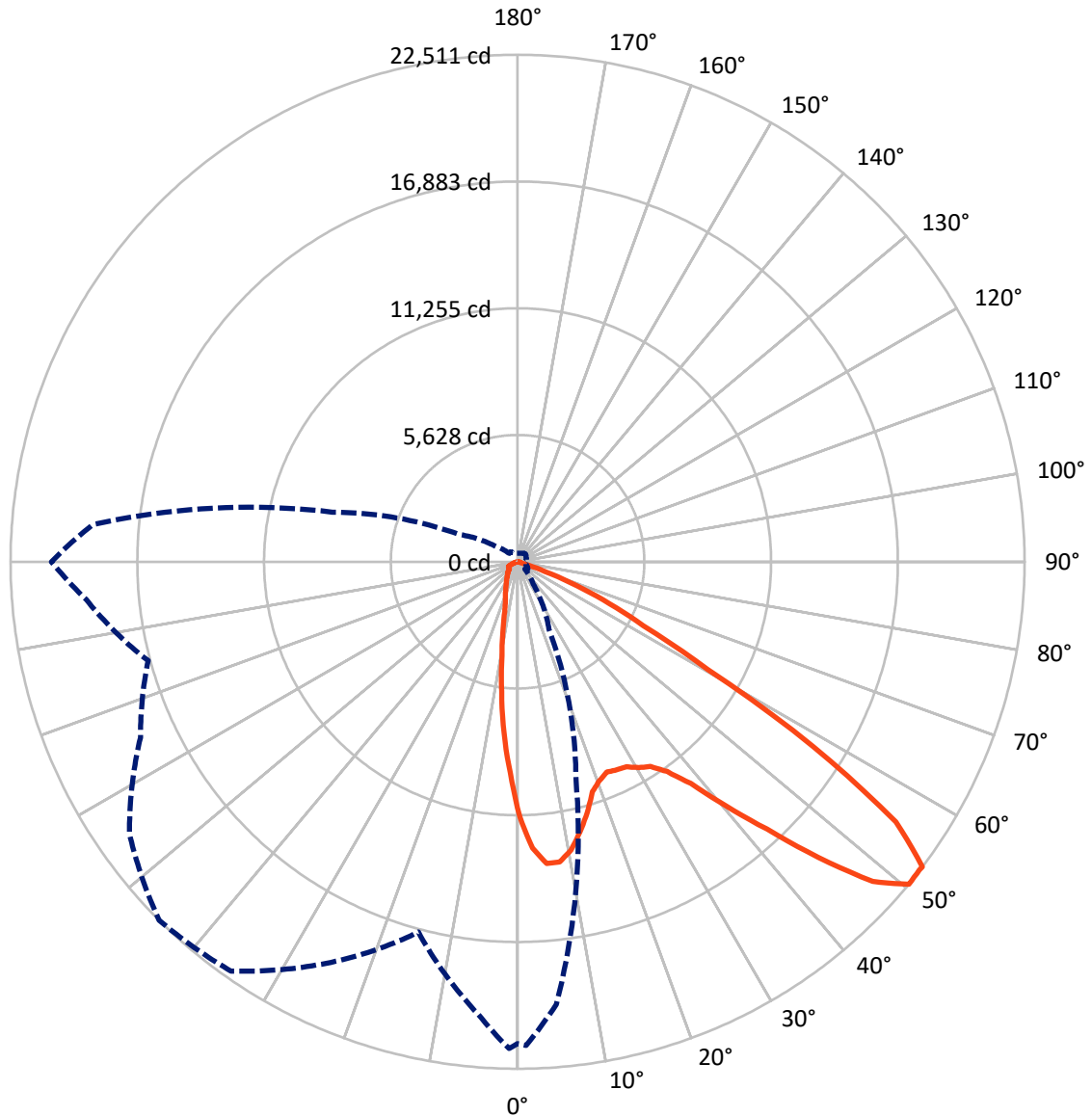
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Short - N/A

REPORT NUMBER: P648658
CATALOG NUMBER: GALN-SA9B-835-U-SLR-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P648658
 CATALOG NUMBER: GALN-SA9B-835-U-SLR-GRSBK

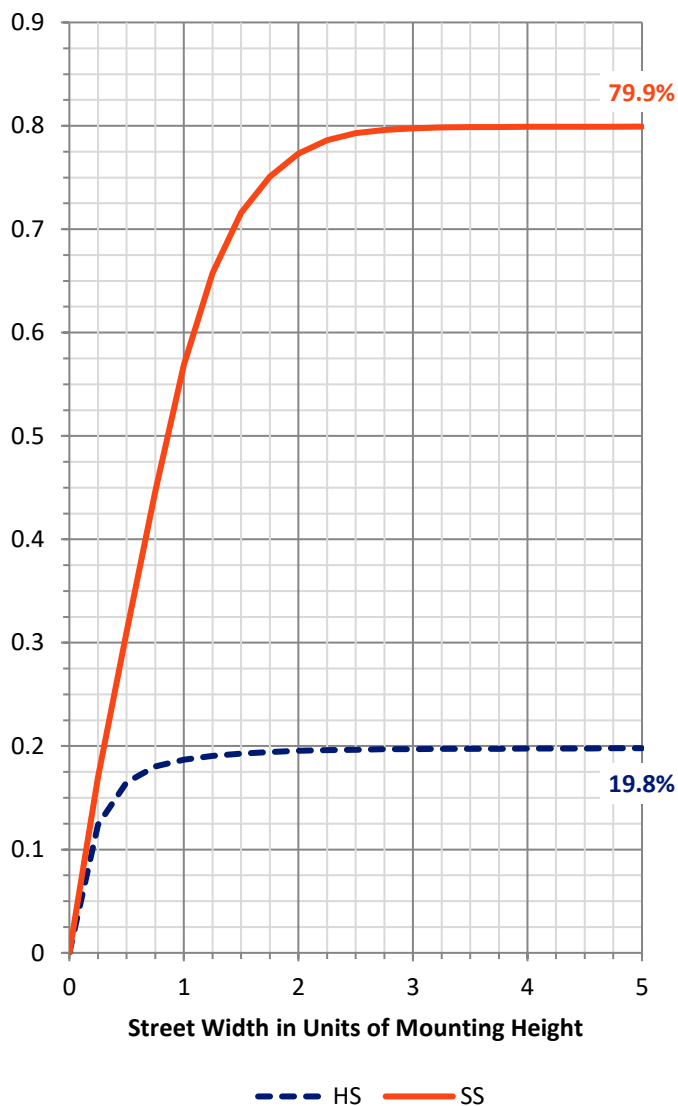
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4472.6	0.0	4472.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	17857.0	0.0	17857.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	22329.6	0.0	22329.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.4	3.7
10°-20°	1640.4	7.3
20°-30°	2464.4	11.0
30°-40°	3699.0	16.6
40°-50°	5198.7	23.3
50°-60°	5607.8	25.1
60°-70°	2603.7	11.7
70°-80°	245.0	1.1
80°-90°	45.2	0.2
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°	22329.6	100.0
0°-180°	22329.6	100.0

Coefficient of Utilization



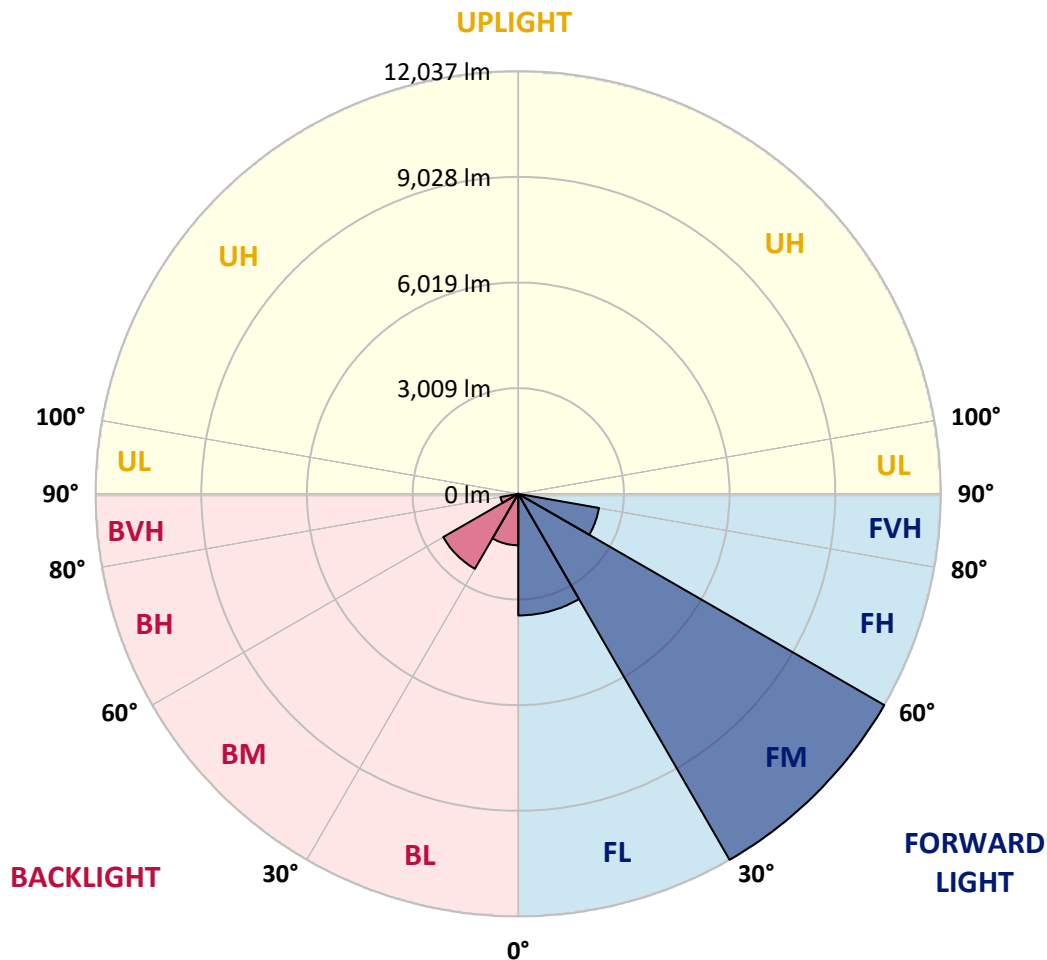
REPORT NUMBER: P648658
 CATALOG NUMBER: GALN-SA9B-835-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3464.2	15.5			
FM (30°-60°)	12037.3	53.9			
FH (60°-80°)	2335.1	10.5			G2/5000
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1466.0	6.6	B3/2500		
BM (30°-60°)	2468.2	11.1	B2/2500		
BH (60°-80°)	513.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	24.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P648658

CATALOG NUMBER: GALN-SA9B-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9
2.5°	11771.4	11589.7	11359.4	11168.9	10885.3	10313.8	10158.7	9972.7	9817.6	9609.4	9317.0
5°	10703.7	10646.1	10539.7	9822.0	9303.7	8612.5	8045.5	7806.3	7491.7	7234.8	7048.6
7.5°	9888.5	9658.1	9321.4	8599.3	7770.8	7030.9	6401.8	6034.1	5617.6	5475.9	5223.4
10°	9015.7	9068.9	8572.7	7558.1	6556.9	5958.8	5568.9	5214.5	4837.9	4589.8	4230.9
12.5°	8736.6	8563.8	8182.8	6929.0	6074.0	5515.8	5041.7	4603.1	4204.4	3805.6	3460.1
15°	8918.2	8652.5	8120.8	6796.1	5701.8	5006.3	4412.6	3818.9	3451.2	2941.7	2582.9
17.5°	9569.5	9356.8	8643.5	6937.9	5511.3	4518.9	3637.3	3025.9	2463.2	2002.5	1820.9
20°	10654.9	10353.7	9458.7	7119.5	5227.8	3929.7	2950.6	2197.4	1665.8	1470.9	1369.0
22.5°	11718.2	11554.3	10424.5	7469.5	4975.3	3406.9	2215.2	1479.7	1244.9	1209.5	1143.0
25°	13742.9	13251.1	11899.9	8103.0	4780.3	2915.2	1670.2	1191.7	1054.4	1027.8	1036.7
27.5°	14947.9	14535.9	13264.4	8524.0	4563.2	2538.6	1413.2	1094.3	1001.2	943.7	921.5
30°	16104.3	15625.8	13942.3	8772.0	4098.1	2139.9	1253.8	1050.0	1027.8	943.7	917.0
32.5°	16994.7	16525.1	14921.3	9144.2	3907.6	1882.9	1032.2	819.6	762.0	753.2	832.9
35°	18359.3	17858.7	15758.7	9348.0	3761.4	1750.0	894.9	731.0	664.5	638.0	642.4
37.5°	19630.7	19289.7	16534.0	9427.7	3606.3	1710.1	801.9	655.7	598.1	580.4	576.0
40°	20694.1	19932.0	17269.5	9511.9	3539.9	1634.8	744.3	598.1	558.2	531.7	531.7
42.5°	21181.4	20406.1	18093.5	9463.2	3522.1	1515.2	744.3	549.4	518.3	491.8	487.3
45°	21075.1	20760.5	18461.2	9441.0	3522.1	1395.5	677.8	536.0	491.8	456.3	447.5
47.5°	21349.7	20937.7	18921.9	9534.0	3451.2	1311.4	571.5	562.7	465.2	420.9	412.0
50°	21398.5	21478.2	19723.8	10017.0	3296.2	1205.0	447.5	553.8	447.5	381.0	372.2
52°	21717.4	21221.3	19967.5	10273.9	3132.2	1125.3	376.5	474.0	429.7	354.5	345.5
52.5°	21278.9	21602.3	20025.1	10367.0	3149.9	1072.2	363.3	465.2	420.9	354.5	332.3
55°	20787.1	21097.2	19790.2	10566.4	2888.6	841.7	283.5	336.7	381.0	310.1	296.8
57.5°	18066.9	18381.4	17198.5	9675.8	2352.5	593.7	234.8	252.5	336.7	288.0	274.7
60°	16060.0	15834.0	14434.0	8072.0	1670.2	332.3	186.0	195.0	367.7	265.8	261.4
62.5°	14677.6	14194.8	12063.8	6233.5	1019.0	221.5	146.2	150.6	283.5	248.1	248.1
65°	10858.7	10318.2	8014.5	3770.2	500.7	155.0	110.8	119.6	177.2	212.7	212.7
67.5°	6198.0	5989.8	3872.1	1701.2	208.2	97.5	84.2	93.0	137.3	172.8	164.0
70°	2848.7	2556.3	1488.6	358.8	97.5	66.5	66.5	75.3	110.8	128.5	119.6
72.5°	832.9	788.6	363.3	57.6	39.9	39.9	44.3	57.6	84.2	97.5	88.6
75°	62.0	39.9	26.5	17.7	17.7	26.5	35.5	57.6	84.2	93.0	75.3
77.5°	4.5	8.8	4.5	4.5	13.3	26.5	39.9	70.9	110.8	115.2	84.2
80°	4.5	4.5	0.0	4.5	13.3	26.5	44.3	79.7	124.0	132.9	70.9
82.5°	0.0	0.0	0.0	4.5	17.7	35.5	53.2	84.2	115.2	141.8	75.3
85°	0.0	0.0	0.0	4.5	26.5	48.7	62.0	22.2	13.3	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: P648658

CATALOG NUMBER: GALN-SA9B-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9
2.5°	9525.2	9410.0	9365.7	9405.6	9392.3	9379.0	9622.7	9569.5	9560.7	9640.4	9622.7
5°	7150.5	6946.8	7505.0	7279.0	7513.8	7655.6	7682.2	7695.5	7859.4	7686.6	7912.5
7.5°	5094.9	5148.1	5143.6	5294.3	5564.5	5803.8	5945.5	5834.8	5825.9	5803.8	5706.3
10°	4071.4	3978.4	3960.7	3925.3	4009.4	4213.2	4386.1	4248.7	4151.2	4284.1	4244.3
12.5°	3327.2	3198.7	3127.9	2986.0	2990.4	3127.9	3127.9	3127.9	3225.3	3300.6	3358.2
15°	2551.9	2445.5	2445.5	2303.7	2272.7	2277.2	2348.1	2356.9	2512.0	2556.3	2578.4
17.5°	1785.4	1727.8	1794.2	1851.9	1816.4	1825.3	1851.9	1860.7	1882.9	1865.2	1909.5
20°	1373.4	1364.5	1382.2	1484.2	1559.5	1603.7	1572.7	1528.5	1501.9	1439.9	1439.9
22.5°	1165.2	1182.9	1213.9	1298.1	1395.5	1422.2	1386.7	1284.8	1205.0	1196.2	1200.7
25°	1036.7	1054.4	1103.2	1156.3	1209.5	1253.8	1218.3	1143.0	1098.7	1058.9	1058.9
27.5°	957.0	965.8	992.4	1032.2	1076.5	1112.0	1098.7	1058.9	1010.1	992.4	952.5
30°	894.9	908.2	939.2	948.1	988.0	1005.7	983.5	974.7	943.7	921.5	908.2
32.5°	863.9	859.5	881.7	890.5	894.9	908.2	881.7	894.9	890.5	855.0	841.7
35°	651.2	686.7	744.3	793.0	806.3	824.0	819.6	801.9	753.2	713.3	664.5
37.5°	584.8	607.0	638.0	677.8	731.0	753.2	744.3	700.0	642.4	615.8	607.0
40°	540.5	553.8	580.4	607.0	660.1	700.0	669.0	629.1	584.8	562.7	549.4
42.5°	500.7	505.0	518.3	545.0	584.8	646.8	593.7	540.5	522.8	509.5	500.7
45°	456.3	456.3	474.0	487.3	531.7	589.2	536.0	487.3	478.5	469.6	465.2
47.5°	420.9	425.3	434.2	451.9	487.3	527.2	491.8	451.9	429.7	425.3	416.5
50°	376.5	381.0	398.7	416.5	460.7	482.9	460.7	416.5	394.3	381.0	381.0
52°	341.2	354.5	372.2	407.6	438.6	474.0	447.5	398.7	372.2	358.8	350.0
52.5°	336.7	345.5	363.3	403.2	438.6	469.6	443.0	394.3	363.3	354.5	345.5
55°	301.3	314.5	345.5	394.3	434.2	469.6	434.2	389.9	345.5	323.4	314.5
57.5°	288.0	296.8	336.7	398.7	429.7	469.6	434.2	389.9	345.5	305.7	296.8
60°	274.7	292.4	336.7	385.5	425.3	474.0	438.6	385.5	336.7	288.0	288.0
62.5°	261.4	274.7	332.3	376.5	407.6	456.3	420.9	376.5	323.4	274.7	270.2
65°	226.0	248.1	292.4	314.5	350.0	394.3	358.8	327.8	283.5	243.7	239.2
67.5°	172.8	181.7	217.0	243.7	265.8	305.7	288.0	248.1	217.0	186.0	186.0
70°	119.6	128.5	155.0	168.3	190.5	212.7	199.4	168.3	146.2	128.5	124.0
72.5°	84.2	88.6	97.5	106.3	115.2	124.0	119.6	97.5	84.2	79.7	75.3
75°	66.5	75.3	79.7	75.3	70.9	66.5	66.5	57.6	48.7	44.3	44.3
77.5°	66.5	70.9	66.5	57.6	48.7	44.3	39.9	35.5	26.5	22.2	26.5
80°	57.6	57.6	57.6	48.7	44.3	39.9	35.5	31.0	26.5	22.2	22.2
82.5°	62.0	62.0	57.6	48.7	48.7	39.9	39.9	35.5	31.0	22.2	22.2
85°	0.0	0.0	0.0	8.8	22.2	39.9	39.9	35.5	31.0	26.5	26.5
87.5°	0.0	0.0	0.0	0.0	4.5	8.8	17.7	22.2	26.5	26.5	26.5
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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CATALOG NUMBER: GALN-SA9B-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9
2.5°	9782.2	9950.5	10269.5	10588.5	10783.4	11013.8	11430.2	11651.7	11939.7	12081.5	12360.6
5°	7881.5	8280.3	8422.0	8785.3	9175.2	9565.0	10185.3	10867.6	11434.7	11824.6	12329.6
7.5°	5750.6	5843.6	6393.0	6636.6	7274.6	7983.5	8829.7	9689.2	10406.9	11044.8	11430.2
10°	4310.7	4651.9	4997.4	5462.6	5976.5	6707.5	7518.3	8466.3	9396.7	10034.7	10522.0
12.5°	3464.5	3734.8	4195.5	4696.1	5329.6	5812.6	6627.8	7567.0	8772.0	9396.7	10039.2
15°	2622.7	2968.4	3491.1	4009.4	4678.4	5187.9	6012.0	7194.8	8745.5	9605.0	10158.7
17.5°	1944.9	2179.7	2649.4	3229.7	3911.9	4629.7	5741.7	7155.0	9042.3	10065.7	10637.2
20°	1488.6	1568.3	1865.2	2383.5	3123.4	4062.6	5303.1	7327.8	9919.5	11186.6	11766.9
22.5°	1205.0	1240.5	1355.7	1714.5	2432.2	3566.4	5094.9	7447.3	10907.5	12528.9	13304.3
25°	1050.0	1041.2	1116.5	1271.5	1900.6	3101.2	4829.1	7899.3	12116.9	14106.1	14801.8
27.5°	957.0	957.0	992.4	1103.2	1577.2	2799.9	4660.7	8222.7	13335.3	15492.8	15869.5
30°	908.2	917.0	1019.0	1054.4	1311.4	2441.1	4381.6	8550.5	14500.5	16379.0	16897.3
32.5°	841.7	806.3	784.2	872.8	1103.2	2117.7	4102.5	8687.9	15444.1	17464.3	17907.4
35°	646.8	629.1	655.7	722.2	948.1	1843.0	3792.4	8843.0	16529.5	18722.5	18811.2
37.5°	584.8	580.4	598.1	655.7	797.5	1603.7	3570.9	8803.0	17358.0	19763.7	19524.4
40°	540.5	540.5	553.8	602.5	713.3	1435.4	3340.4	8767.6	18159.9	20933.3	20233.3
42.5°	505.0	505.0	527.2	558.2	677.8	1324.7	3167.7	8718.9	18833.3	21651.0	20649.7
45°	456.3	469.6	505.0	536.0	686.7	1249.4	3039.2	8532.8	19063.7	21642.1	20450.4
47.5°	420.9	438.6	474.0	518.3	620.2	1227.2	2950.6	8368.9	18984.0	21110.5	19825.7
50°	381.0	403.2	451.9	527.2	527.2	1182.9	2857.6	8515.1	18926.4	20698.5	19227.7
52°	354.5	372.2	434.2	513.9	460.7	1089.9	2799.9	8798.6	19161.2	20645.4	18961.8
52.5°	350.0	363.3	420.9	505.0	438.6	1072.2	2760.1	8865.0	19236.5	20512.4	19143.4
55°	310.1	327.8	385.5	394.3	358.8	881.7	2631.6	9015.7	18864.3	20251.0	18970.7
57.5°	292.4	301.3	341.2	323.4	310.1	664.5	2263.9	8780.9	16755.5	17987.2	17650.5
60°	270.2	279.1	319.0	252.5	261.4	465.2	1701.2	7624.6	13454.9	14987.8	15594.8
62.5°	261.4	257.0	301.3	203.8	221.5	336.7	1200.7	6198.0	10367.0	12338.4	13388.4
65°	230.4	226.0	217.0	172.8	190.5	261.4	717.7	4044.9	7305.6	9334.7	9910.7
67.5°	177.2	186.0	159.5	137.3	159.5	203.8	398.7	1812.0	3832.2	5599.9	6065.1
70°	124.0	132.9	128.5	119.6	141.8	168.3	230.4	620.2	1586.0	2941.7	3243.0
72.5°	75.3	93.0	97.5	101.9	124.0	146.2	164.0	199.4	420.9	1041.2	1293.7
75°	44.3	62.0	75.3	88.6	101.9	124.0	137.3	141.8	146.2	195.0	314.5
77.5°	31.0	44.3	66.5	84.2	101.9	124.0	146.2	155.0	146.2	137.3	146.2
80°	26.5	44.3	62.0	79.7	106.3	128.5	146.2	146.2	141.8	124.0	132.9
82.5°	26.5	44.3	66.5	84.2	101.9	124.0	141.8	146.2	132.9	124.0	128.5
85°	31.0	48.7	70.9	88.6	110.8	101.9	93.0	75.3	70.9	57.6	62.0
87.5°	31.0	44.3	44.3	48.7	53.2	53.2	53.2	48.7	39.9	35.5	35.5
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: P648658

CATALOG NUMBER: GALN-SA9B-835-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9	11323.9
2.5°	12373.9	12728.4	12715.1	12723.9	12670.7	12311.9	12139.1	11700.5	11824.6	11771.4
5°	12847.9	13197.9	13499.2	13463.8	13056.2	12568.9	11846.7	11164.4	10978.4	10703.7
7.5°	12373.9	13215.6	13494.8	13454.9	12852.4	12227.7	11075.8	10393.5	10070.2	9888.5
10°	11620.7	12595.4	12941.0	13011.9	12604.3	11656.2	10597.4	9503.0	9330.3	9015.7
12.5°	11191.0	11899.9	12112.5	12303.0	12161.2	11452.4	10234.0	9184.0	8944.8	8736.6
15°	10841.0	11261.9	11350.5	11567.6	11651.7	11270.7	10424.5	9529.7	8940.4	8918.2
17.5°	11164.4	10991.7	10668.2	10734.7	11000.5	11275.2	10916.4	10211.9	9640.4	9569.5
20°	11700.5	10938.5	10207.5	10371.4	10592.9	11434.7	11660.6	11164.4	10836.6	10654.9
22.5°	12316.3	11031.5	10061.2	10141.0	10561.9	11793.5	12865.7	12591.0	11979.6	11718.2
25°	13454.9	11288.5	10176.5	10229.7	10805.6	12294.2	13955.6	14159.3	13796.1	13742.9
27.5°	14566.9	11953.0	10429.0	10309.4	10929.6	12781.5	14615.6	15710.0	15072.0	14947.9
30°	15134.0	12493.5	10805.6	10601.7	11443.5	13078.3	15014.4	16720.0	16161.8	16104.3
32.5°	16002.3	12985.3	11098.0	10836.6	11731.5	13446.1	15758.7	17823.2	17282.7	16994.7
35°	16365.6	13521.4	11740.4	11434.7	12555.6	13960.0	16139.7	18806.7	18638.4	18359.3
37.5°	17065.6	14097.3	12497.9	12480.2	13552.4	14628.9	16826.4	20144.7	20113.7	19630.7
40°	17123.2	14726.4	13694.1	14252.4	15094.1	15794.1	17428.9	20516.9	21021.9	20694.1
42.5°	17211.8	15829.6	15763.1	16223.8	16946.0	16795.4	17451.0	20605.4	21376.4	21181.4
45°	17251.7	16932.7	17867.5	18718.2	19019.4	18106.7	17242.8	20437.1	21562.4	21075.1
47.5°	16932.7	17880.8	19568.7	21212.4	21301.0	18913.1	17154.2	20264.4	21673.1	21349.7
50°	16977.0	18474.5	21039.6	22510.5	22187.1	19626.4	17016.9	20158.0	21615.6	21398.5
52°	16870.7	18487.7	21247.9	22483.9	22257.9	19232.0	16782.1	19750.4	21562.4	21717.4
52.5°	16990.3	18408.0	21030.8	22501.6	22209.2	19427.0	16751.0	19976.4	21593.4	21278.9
55°	16578.3	17460.0	19759.2	20383.9	20339.6	17632.7	15798.5	19227.7	20782.7	20787.1
57.5°	14983.3	15134.0	15497.3	15484.0	15280.2	13862.5	13512.5	17681.5	18527.7	18066.9
60°	13202.4	11080.2	10101.2	9702.4	9476.5	9246.1	11953.0	16175.1	16254.8	16060.0
62.5°	11408.1	7682.2	6379.6	6268.9	6322.1	7163.8	11554.3	15577.0	15098.6	14677.6
65°	9206.2	5599.9	4634.1	4487.9	5006.3	5914.5	9352.4	11944.2	11208.7	10858.7
67.5°	5781.6	4084.8	3132.2	2857.6	3482.2	4071.4	6144.8	7505.0	6680.9	6198.0
70°	3429.1	2281.6	1417.7	1271.5	1431.0	2170.9	3442.4	3743.6	3096.8	2848.7
72.5°	1351.2	837.3	394.3	336.7	350.0	762.0	1267.1	1236.0	934.8	832.9
75°	363.3	252.5	137.3	110.8	93.0	141.8	203.8	132.9	48.7	62.0
77.5°	168.3	150.6	119.6	93.0	70.9	53.2	26.5	8.8	8.8	4.5
80°	146.2	128.5	110.8	93.0	70.9	44.3	22.2	4.5	4.5	4.5
82.5°	137.3	119.6	101.9	84.2	66.5	44.3	22.2	4.5	0.0	0.0
85°	57.6	75.3	84.2	79.7	70.9	44.3	22.2	4.5	0.0	0.0
87.5°	31.0	26.5	22.2	17.7	13.3	8.8	8.8	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

(END OF REPORT)