

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: P529145

Luminaire Tested: **GALN-SA4B-735-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529145
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-SA4B-735-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 11592 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

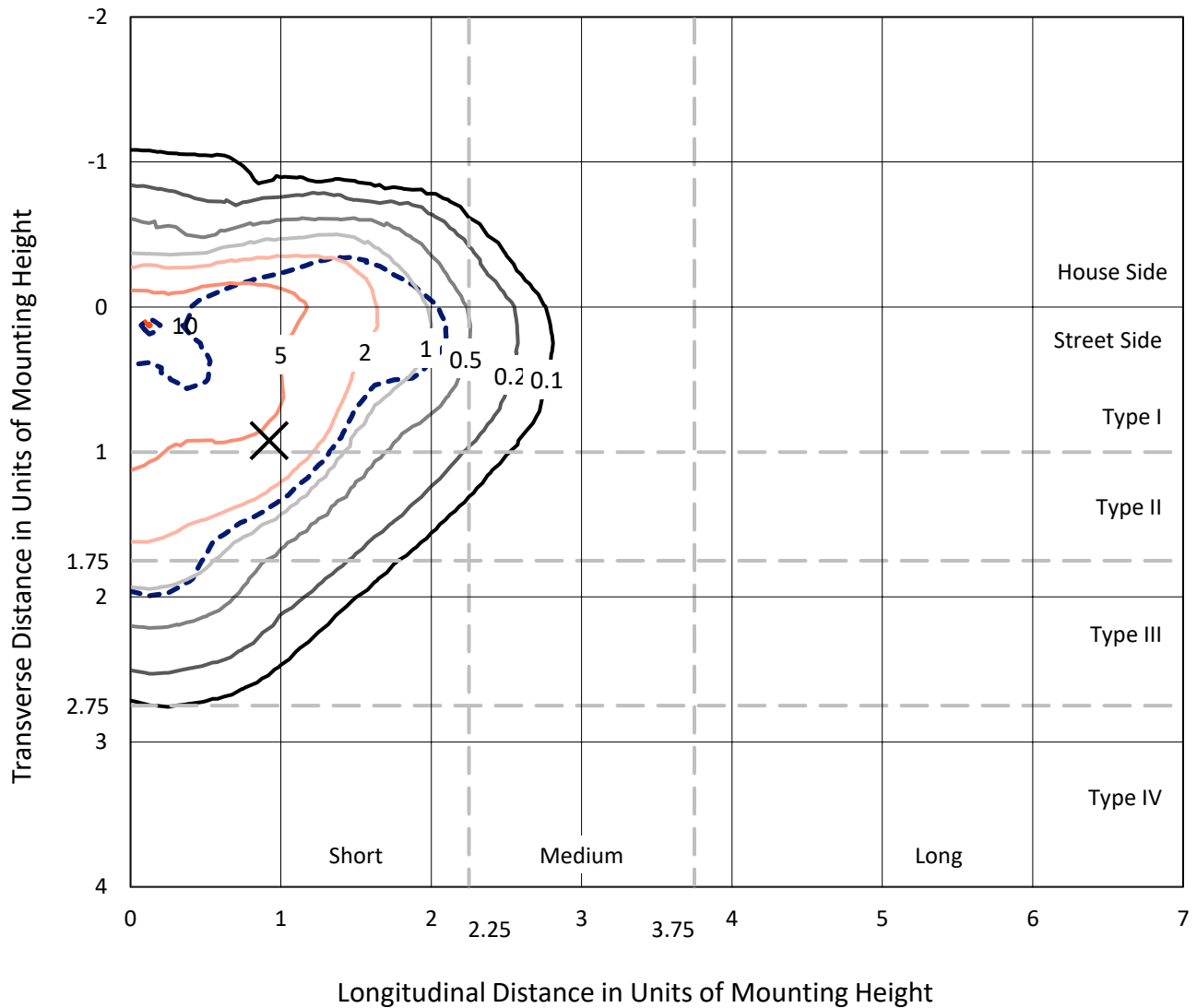
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529145
 CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

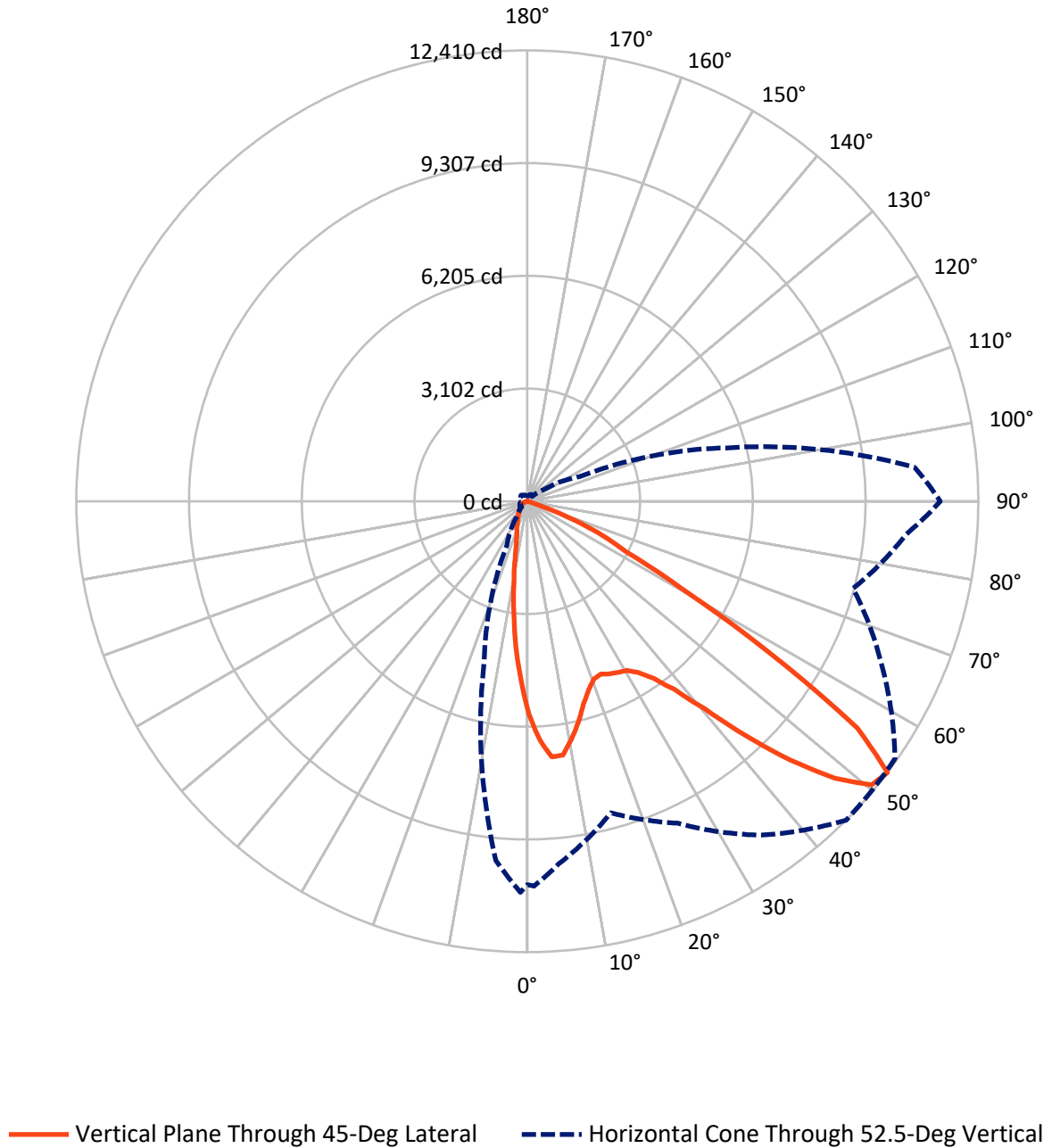
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

REPORT NUMBER: P529145
CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P529145
 CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2352.6	0.0	2352.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9239.4	0.0	9239.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	11592.0	0.0	11592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.7	3.7
10°-20°	845.7	7.3
20°-30°	1287.0	11.1
30°-40°	1923.6	16.6
40°-50°	2739.4	23.6
50°-60°	2944.8	25.4
60°-70°	1304.9	11.3
70°-80°	105.6	0.9
80°-90°	12.3	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°	11592.0	100.0
0°-180°	11592.0	100.0

Coefficient of Utilization

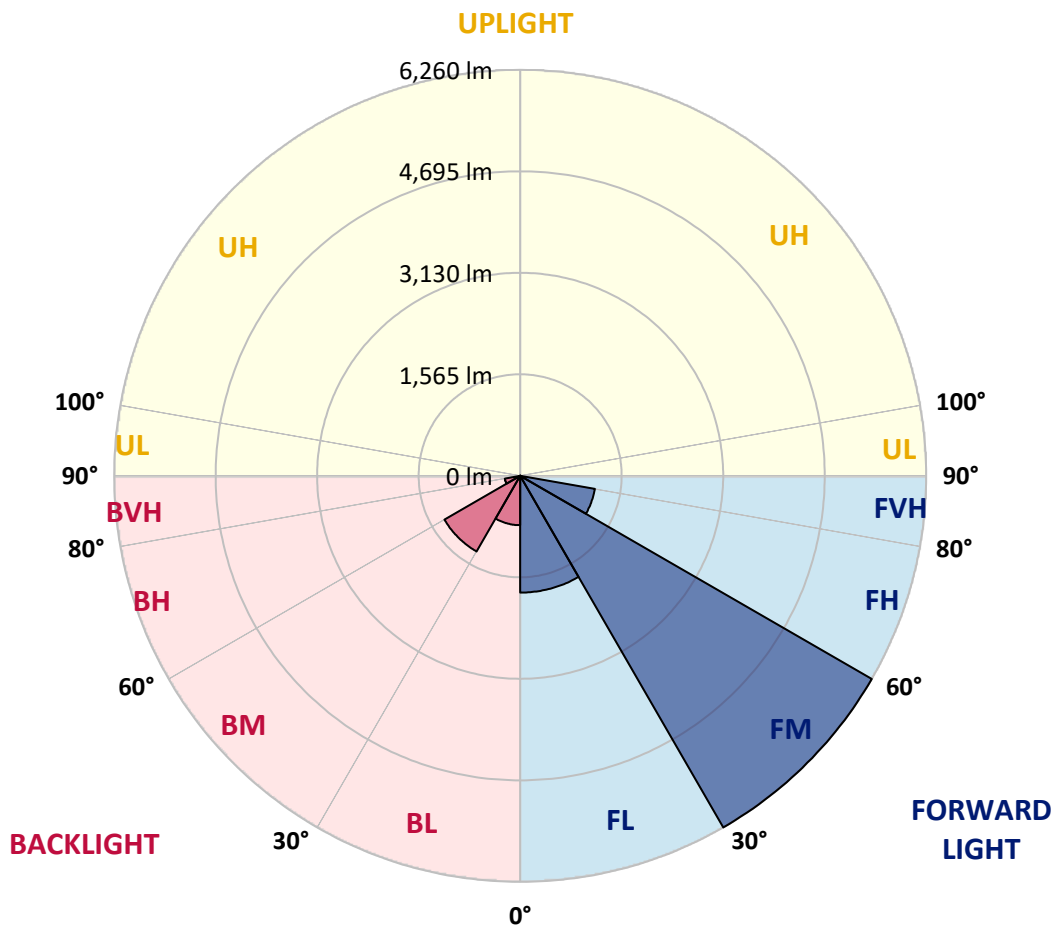


REPORT NUMBER: P529145
 CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.5	15.5			
FM (30°-60°)	6260.0	54.0			
FH (60°-80°)	1169.8	10.1			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	760.9	6.6	B2/1000		
BM (30°-60°)	1347.8	11.6	B2/2500		
BH (60°-80°)	240.7	2.1	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





REPORT NUMBER: P529145

CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7
2.5°	6219.7	6237.9	6338.2	6463.6	6529.7	6680.2	6575.3	6602.7	6545.7	6345.1	6187.8
5°	6030.4	6028.2	6155.8	6465.9	6760.0	7058.7	7067.8	6908.2	6627.8	6320.0	5880.0
7.5°	5460.5	5549.4	5681.6	6176.4	6721.3	6944.7	7051.9	6864.9	6434.0	5994.0	5517.5
10°	5029.5	5075.1	5298.6	5895.9	6294.9	6593.6	6659.7	6552.5	6222.0	5672.5	5139.0
12.5°	4781.0	4803.8	5066.0	5567.6	5989.4	6210.6	6242.5	6292.6	6055.5	5540.3	4899.6
15°	4783.3	4801.6	5154.9	5574.5	5740.9	5681.6	5786.5	5784.2	5886.8	5515.2	5100.2
17.5°	5127.6	5148.1	5467.3	5674.8	5601.8	5462.7	5455.9	5560.8	5777.4	5827.5	5403.5
20°	5720.4	5768.2	6003.1	5991.7	5581.3	5300.9	5223.3	5303.1	5807.0	6092.0	6014.5
22.5°	6518.3	6584.5	6748.6	6434.0	5674.8	5191.4	5166.3	5321.4	6003.1	6682.5	6707.6
25°	7444.0	7555.7	7635.5	7232.0	6007.6	5380.7	5262.1	5528.9	6267.6	7323.2	7589.9
27.5°	8057.3	8173.6	8155.3	7578.5	6231.1	5430.8	5330.5	5579.0	6497.8	7475.9	8050.5
30°	8536.1	8606.8	8734.4	7765.5	6454.5	5572.2	5401.2	5791.0	6573.1	7740.4	8606.8
32.5°	9094.7	9142.6	9151.7	8096.1	6798.8	5750.0	5620.0	6055.5	6905.9	7993.5	9099.2
35°	9657.8	9728.5	9580.3	8504.2	7010.8	6080.6	5984.8	6513.8	7172.7	8255.7	9641.9
37.5°	10268.8	10305.3	9963.3	8672.9	7314.0	6618.7	6566.2	7008.5	7635.5	8729.9	10243.8
40°	10781.8	10816.0	10371.4	8880.4	7633.2	7371.0	7505.6	7952.4	8264.8	9037.7	10544.7
42.5°	11066.8	11146.6	10508.2	8766.4	8273.9	8223.7	8821.1	8978.4	8994.4	9124.3	10813.8
45°	11144.3	11107.9	10282.5	8859.8	8834.8	9625.9	10168.5	10376.0	9719.4	9283.9	10882.1
47.5°	10786.4	10834.3	9949.7	8777.8	9571.2	10688.4	11390.6	11775.9	10259.7	9144.8	10713.4
50°	10496.8	10435.3	9842.5	8718.5	9769.5	11189.9	12272.9	12359.5	10756.8	9315.8	10528.8
52.5°	10553.8	10592.6	10013.5	8875.8	9774.1	11219.6	12409.7	12350.4	10772.7	9277.1	10462.6
55°	10674.7	10503.7	9940.5	8529.3	9119.8	10392.0	11014.4	10923.2	9942.8	8864.4	10300.8
57.5°	9211.0	9475.4	9140.3	7615.0	7485.0	7829.3	7817.9	8098.3	7416.6	7628.7	9377.4
60°	7475.9	7521.5	7646.9	6513.8	5180.0	5061.5	4897.3	4719.5	4990.8	6522.9	8529.3
62.5°	6575.3	6520.6	6967.5	5925.6	3657.0	3062.0	3034.6	3144.0	3850.8	6222.0	8000.3
65°	4778.8	4847.2	5170.9	4598.6	2745.0	2336.9	2295.9	2619.6	3116.7	4986.2	6105.7
67.5°	2918.3	3050.6	3080.2	2836.2	1862.7	1479.7	1420.4	1714.5	2250.3	3226.1	3579.5
70°	1347.4	1507.0	1657.5	1548.1	1078.4	608.7	574.5	720.5	1135.4	1855.9	1899.2
72.5°	408.1	410.4	574.5	599.6	348.8	136.8	120.8	159.6	385.3	613.3	645.2
75°	29.6	31.9	77.5	88.9	66.1	34.2	36.5	43.3	82.1	136.8	102.6
77.5°	2.3	2.3	2.3	11.4	20.5	22.8	29.6	34.2	43.3	50.2	45.6
80°	2.3	0.0	2.3	9.1	16.0	22.8	27.4	31.9	34.2	38.8	34.2
82.5°	0.0	0.0	0.0	6.8	16.0	22.8	25.1	34.2	38.8	45.6	38.8
85°	0.0	0.0	0.0	6.8	16.0	25.1	22.8	11.4	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: P529145

CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7
2.5°	6215.1	6126.2	5923.3	5820.7	5579.0	5544.8	5307.7	5268.9	5189.1	5145.8	5040.9
5°	5686.2	5579.0	5248.4	4970.3	4646.5	4420.8	4247.5	4090.2	3999.0	3914.7	3953.4
7.5°	5255.3	4942.9	4575.8	4110.7	3736.8	3495.1	3230.7	3014.1	2886.4	2799.8	2820.3
10°	4803.8	4600.9	4090.2	3568.1	3116.7	2945.7	2738.2	2571.8	2391.7	2236.6	2163.7
12.5°	4662.5	4361.5	3720.9	3189.6	2847.6	2681.2	2444.1	2252.6	2022.3	1833.1	1767.0
15°	4687.6	4398.0	3620.5	3052.8	2649.3	2362.0	2079.3	1842.2	1589.1	1456.9	1388.5
17.5°	5095.7	4594.1	3686.7	2909.2	2373.4	1974.4	1625.6	1324.6	1135.4	998.6	969.0
20°	5597.3	5018.1	3828.0	2804.3	2147.7	1570.9	1187.8	927.9	770.6	747.8	741.0
22.5°	6331.4	5711.2	4131.2	2733.6	1871.8	1224.3	813.9	674.9	631.5	627.0	629.3
25°	7357.4	6579.9	4461.8	2674.4	1664.4	943.9	665.7	572.3	558.6	551.7	563.1
27.5°	7802.0	7104.3	4637.4	2546.7	1475.1	850.4	656.6	567.7	528.9	517.5	524.4
30°	8351.4	7453.1	4913.3	2327.8	1197.0	699.9	613.3	617.9	599.6	542.6	524.4
32.5°	9081.0	7888.6	5052.3	2172.8	1069.3	579.1	449.1	412.7	460.5	469.7	485.6
35°	9548.4	8330.9	5123.0	2081.6	1003.2	494.7	380.7	346.6	335.2	337.4	346.6
37.5°	10417.0	8928.2	5211.9	1985.8	953.0	430.9	344.3	312.4	296.4	296.4	305.5
40°	10936.9	9402.5	5332.8	1933.4	902.9	392.1	312.4	285.0	271.3	271.3	275.9
42.5°	11066.8	9637.3	5291.7	1915.1	845.9	383.0	285.0	264.5	248.5	246.2	244.0
45°	11299.4	9995.3	5298.6	1894.6	786.6	348.8	269.0	246.2	223.4	221.2	218.9
47.5°	11554.7	10252.9	5312.3	1814.8	729.6	291.8	280.4	228.0	200.6	196.1	196.1
50°	11335.9	10458.1	5430.8	1735.0	656.6	237.1	275.9	214.3	177.8	171.0	173.3
52.5°	11363.2	10699.8	5681.6	1623.3	565.4	189.2	223.4	202.9	161.9	150.5	152.8
55°	10925.5	10444.4	5715.8	1504.8	442.3	145.9	171.0	177.8	136.8	132.2	132.2
57.5°	9404.7	8843.9	5043.2	1219.8	291.8	120.8	123.1	155.0	118.6	114.0	116.3
60°	8048.2	7099.7	4058.3	804.8	182.4	95.8	88.9	157.3	104.9	102.6	109.4
62.5°	7336.8	5834.4	3077.9	499.3	125.4	73.0	61.6	127.7	91.2	91.2	100.3
65°	5300.9	3919.2	1789.8	262.2	88.9	57.0	45.6	73.0	75.2	77.5	82.1
67.5°	3283.1	1979.0	754.7	127.7	59.3	38.8	29.6	45.6	50.2	50.2	54.7
70°	1621.0	788.9	250.8	73.0	45.6	31.9	20.5	25.1	25.1	22.8	25.1
72.5°	501.6	237.1	63.8	45.6	31.9	20.5	11.4	9.1	4.6	0.0	2.3
75°	57.0	45.6	41.0	31.9	20.5	9.1	2.3	0.0	0.0	0.0	0.0
77.5°	34.2	38.8	38.8	31.9	20.5	6.8	0.0	0.0	0.0	0.0	0.0
80°	27.4	29.6	31.9	29.6	18.2	9.1	0.0	0.0	0.0	0.0	0.0
82.5°	34.2	38.8	43.3	38.8	25.1	11.4	4.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.8	2.3	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: P529145

CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7
2.5°	4997.6	4947.5	5018.1	4913.3	4911.0	4913.3	4883.6	4856.3	4899.6	5015.9	5027.3
5°	3814.3	3921.5	3955.7	4067.4	4005.9	3914.7	3932.9	3871.3	4021.8	4087.9	4035.5
7.5°	2777.0	2770.1	3000.4	3014.1	3043.7	3046.0	3041.4	2920.6	2797.5	2824.8	2906.9
10°	2154.5	2038.3	2150.0	2138.6	2211.5	2191.0	2220.7	2090.7	2134.0	2134.0	2186.5
12.5°	1755.6	1632.4	1611.9	1582.3	1611.9	1623.3	1634.7	1609.6	1682.6	1716.8	1753.3
15°	1340.6	1272.2	1254.0	1197.0	1206.1	1238.0	1265.4	1276.8	1254.0	1306.4	1311.0
17.5°	973.5	971.3	982.7	980.4	971.3	964.4	962.1	932.5	923.4	927.9	946.2
20°	738.7	756.9	795.7	834.5	855.0	829.9	795.7	745.5	725.0	729.6	731.9
22.5°	631.5	658.9	711.3	754.7	775.2	729.6	668.0	624.7	615.6	613.3	611.0
25°	572.3	604.2	642.9	656.6	654.3	627.0	581.4	563.1	558.6	554.0	533.5
27.5°	540.3	551.7	558.6	574.5	581.4	563.1	551.7	524.4	519.8	519.8	506.1
30°	522.1	515.3	524.4	513.0	522.1	508.4	510.7	510.7	499.3	503.9	503.9
32.5°	485.6	487.9	487.9	465.1	471.9	456.0	471.9	485.6	487.9	490.2	508.4
35°	355.7	396.7	417.2	417.2	424.1	412.7	410.4	394.4	373.9	353.4	344.3
37.5°	312.4	328.3	355.7	371.6	383.0	373.9	353.4	328.3	316.9	307.8	298.7
40°	278.2	291.8	310.1	328.3	351.1	339.7	307.8	296.4	282.7	282.7	273.6
42.5°	250.8	257.6	269.0	296.4	321.5	298.7	275.9	266.8	259.9	257.6	255.4
45°	225.7	228.0	239.4	262.2	291.8	269.0	246.2	234.8	237.1	239.4	237.1
47.5°	202.9	207.5	214.3	241.7	259.9	248.5	223.4	216.6	216.6	216.6	218.9
50°	175.6	187.0	200.6	223.4	237.1	230.3	209.8	200.6	196.1	196.1	198.4
52.5°	157.3	166.4	184.7	212.0	230.3	218.9	198.4	184.7	175.6	173.3	177.8
55°	136.8	152.8	182.4	202.9	228.0	216.6	193.8	177.8	161.9	159.6	159.6
57.5°	123.1	148.2	175.6	200.6	221.2	212.0	193.8	173.3	152.8	150.5	150.5
60°	116.3	143.6	171.0	193.8	221.2	207.5	191.5	168.7	145.9	145.9	143.6
62.5°	109.4	134.5	161.9	184.7	212.0	200.6	184.7	161.9	139.1	139.1	134.5
65°	91.2	116.3	134.5	155.0	184.7	173.3	157.3	141.4	123.1	118.6	120.8
67.5°	63.8	79.8	98.0	118.6	136.8	132.2	125.4	114.0	98.0	95.8	93.5
70°	31.9	43.3	59.3	79.8	95.8	91.2	86.6	77.5	68.4	66.1	66.1
72.5°	4.6	13.7	25.1	36.5	50.2	52.4	50.2	47.9	45.6	43.3	45.6
75°	0.0	0.0	0.0	9.1	20.5	25.1	29.6	34.2	34.2	29.6	36.5
77.5°	0.0	0.0	0.0	0.0	2.3	11.4	22.8	29.6	36.5	31.9	43.3
80°	0.0	0.0	0.0	0.0	2.3	13.7	22.8	31.9	36.5	31.9	45.6
82.5°	0.0	0.0	0.0	0.0	2.3	16.0	22.8	29.6	34.2	31.9	41.0
85°	0.0	0.0	0.0	0.0	6.8	13.7	9.1	4.6	2.3	2.3	6.8
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: P529145
 CATALOG NUMBER: GALN-SA4B-735-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7
2.5°	5091.1	5253.0	5426.3	5492.4	5697.6	5852.6	5957.5	6183.2	6217.4	6219.7
5°	4090.2	4172.3	4468.7	4607.8	4913.3	5150.4	5403.5	5768.2	6012.2	6030.4
7.5°	2906.9	3134.9	3260.3	3622.8	3999.0	4370.6	4746.8	5170.9	5453.6	5460.5
10°	2339.2	2487.4	2710.8	2982.2	3299.1	3677.5	4179.1	4671.6	4958.9	5029.5
12.5°	1883.2	2143.1	2398.5	2678.9	2920.6	3205.6	3745.9	4402.6	4639.7	4781.0
15°	1450.0	1687.2	1988.1	2316.4	2590.0	2970.8	3586.3	4336.4	4735.4	4783.3
17.5°	1069.3	1281.3	1559.5	1869.6	2279.9	2820.3	3613.7	4671.6	5047.8	5127.6
20°	768.3	891.5	1110.3	1470.6	1992.7	2644.7	3641.1	5011.3	5583.6	5720.4
22.5°	608.7	658.9	802.5	1121.7	1671.2	2460.1	3834.9	5661.1	6320.0	6518.3
25°	528.9	556.3	624.7	884.6	1468.3	2441.8	4144.9	6440.8	7300.4	7444.0
27.5°	510.7	515.3	574.5	811.7	1358.8	2321.0	4263.5	6994.9	7911.4	8057.3
30°	538.1	611.0	615.6	686.3	1155.9	2081.6	4325.0	7530.6	8428.9	8536.1
32.5°	465.1	442.3	458.3	531.2	1016.9	1942.5	4441.3	7998.0	9019.4	9094.7
35°	323.8	339.7	376.2	460.5	889.2	1796.6	4471.0	8513.3	9580.3	9657.8
37.5°	298.7	307.8	337.4	392.1	782.0	1714.5	4429.9	8889.5	10161.7	10268.8
40°	278.2	289.6	305.5	355.7	702.2	1623.3	4372.9	9229.2	10517.4	10781.8
42.5°	262.2	271.3	285.0	339.7	633.8	1532.1	4293.1	9708.0	10836.6	11066.8
45°	244.0	257.6	273.6	330.6	595.1	1470.6	4233.8	9678.3	11021.2	11144.3
47.5°	225.7	248.5	266.8	307.8	583.7	1440.9	4258.9	9566.6	10870.7	10786.4
50°	207.5	237.1	269.0	255.4	556.3	1381.6	4288.6	9719.4	10512.8	10496.8
52.5°	191.5	225.7	250.8	209.8	494.7	1324.6	4575.8	9920.0	10765.9	10553.8
55°	168.7	202.9	200.6	168.7	401.3	1281.3	4801.6	9924.6	10594.9	10674.7
57.5°	152.8	180.1	157.3	141.4	296.4	1071.6	4434.5	8321.8	9069.6	9211.0
60°	141.4	175.6	118.6	111.7	193.8	772.9	3871.3	6445.4	7209.2	7475.9
62.5°	130.0	166.4	93.5	91.2	134.5	549.5	3182.8	5394.3	6212.8	6575.3
65°	114.0	118.6	75.2	70.7	95.8	296.4	1937.9	3714.0	4644.2	4778.8
67.5°	93.5	91.2	61.6	57.0	63.8	143.6	855.0	1860.4	2692.6	2918.3
70°	75.2	75.2	52.4	45.6	45.6	66.1	223.4	741.0	1217.5	1347.4
72.5°	54.7	57.0	41.0	36.5	34.2	31.9	36.5	148.2	319.2	408.1
75°	47.9	50.2	41.0	31.9	25.1	20.5	16.0	13.7	18.2	29.6
77.5°	52.4	52.4	43.3	29.6	22.8	16.0	9.1	4.6	4.6	2.3
80°	66.1	68.4	57.0	38.8	27.4	18.2	11.4	4.6	2.3	2.3
82.5°	70.7	77.5	63.8	47.9	34.2	20.5	11.4	2.3	0.0	0.0
85°	18.2	29.6	50.2	43.3	34.2	20.5	11.4	2.3	0.0	0.0
87.5°	0.0	2.3	6.8	6.8	9.1	9.1	6.8	2.3	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)