

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: P459339

Luminaire Tested: **GALN-SA8A-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459339
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-SA8A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA 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: 24705 lumens
Efficiency: N/A
Efficacy: 101.2 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

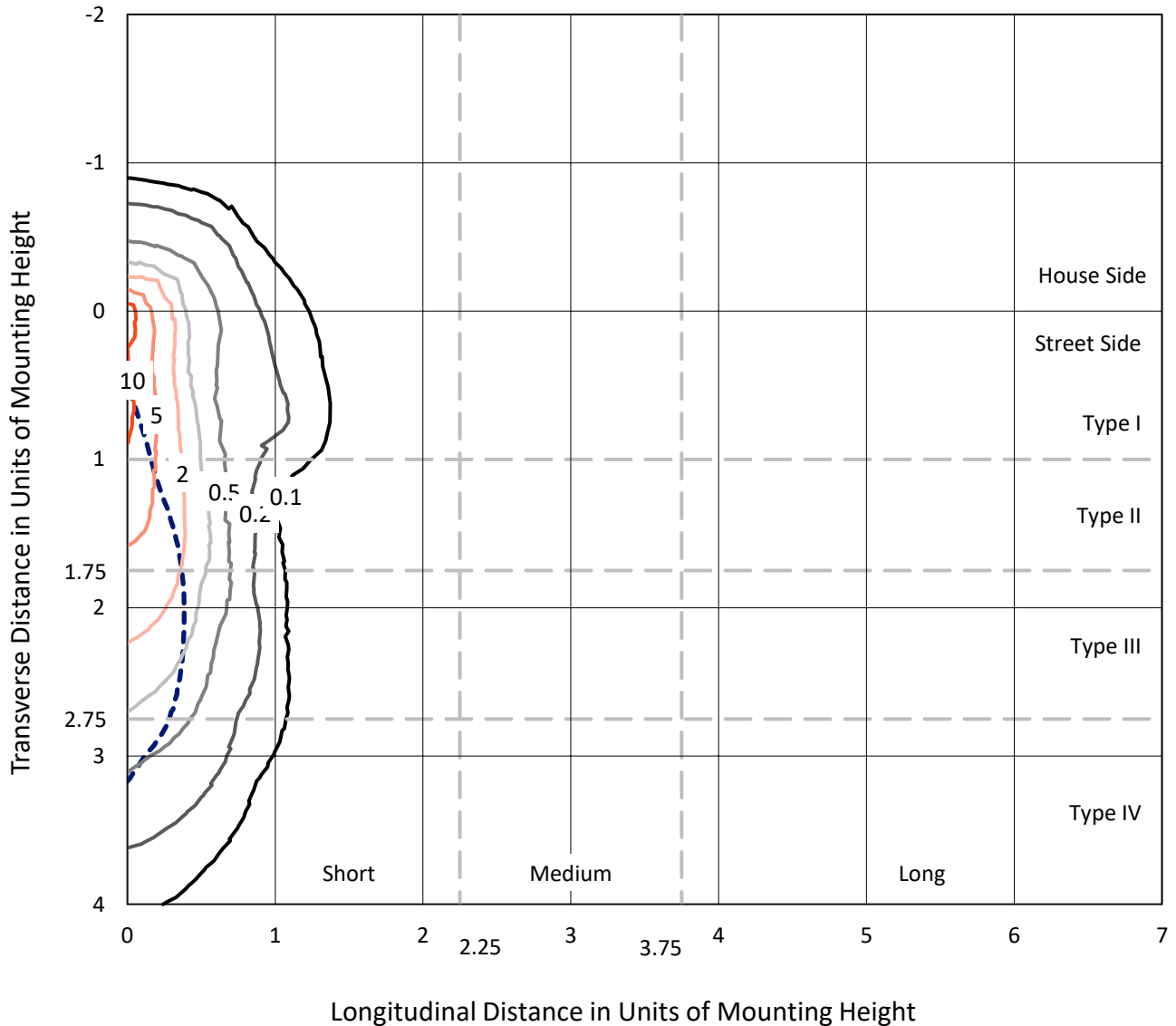
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

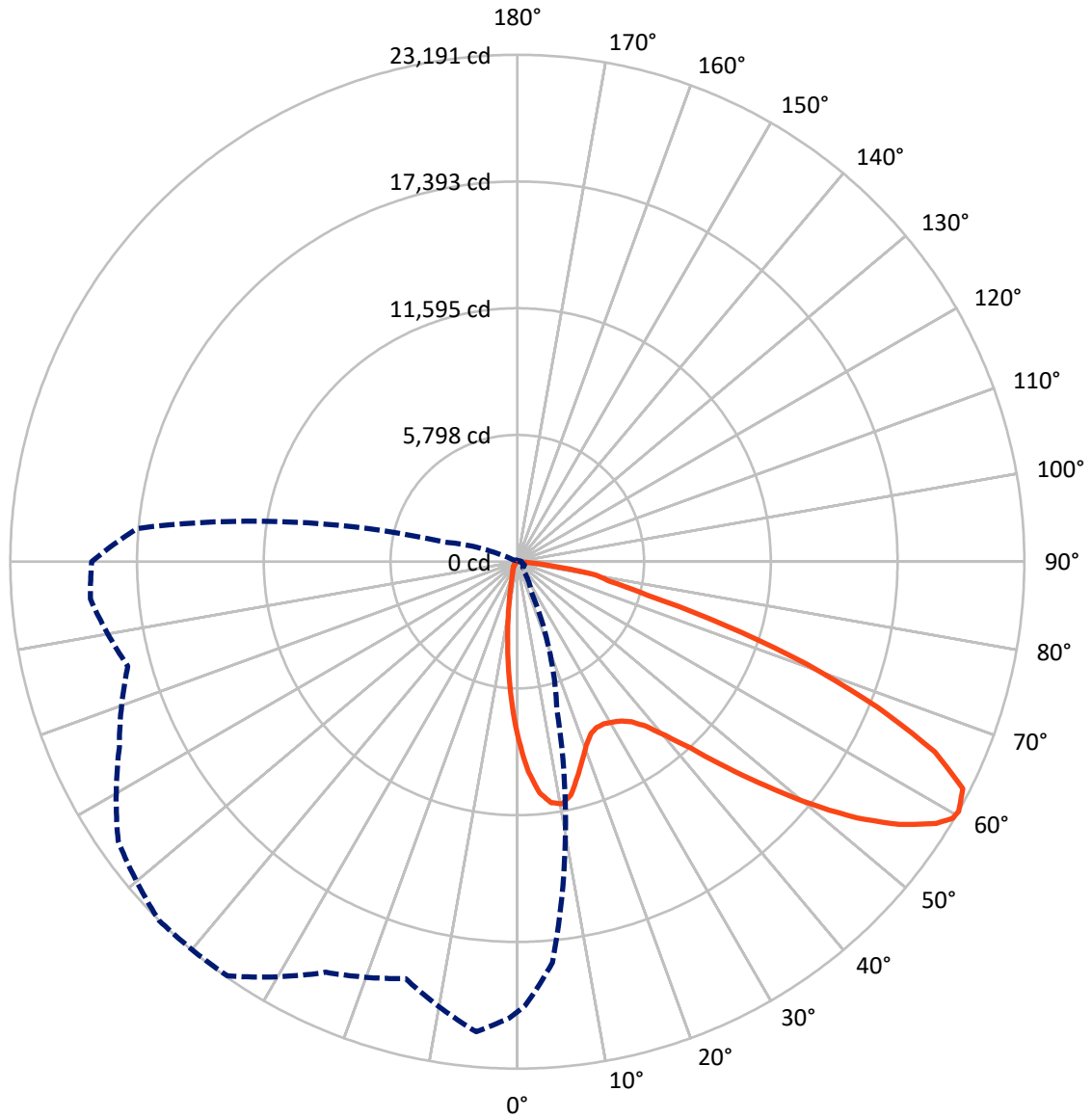
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	3047.1	0.0	3047.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	21657.9	0.0	21657.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	24705.0	0.0	24705.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	2.5
10°-20°	1206.1	4.9
20°-30°	1768.5	7.2
30°-40°	2630.1	10.6
40°-50°	3827.6	15.5
50°-60°	5519.7	22.3
60°-70°	6071.1	24.6
70°-80°	2719.3	11.0
80°-90°	355.3	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°	24705.0	100.0
0°-180°	24705.0	100.0



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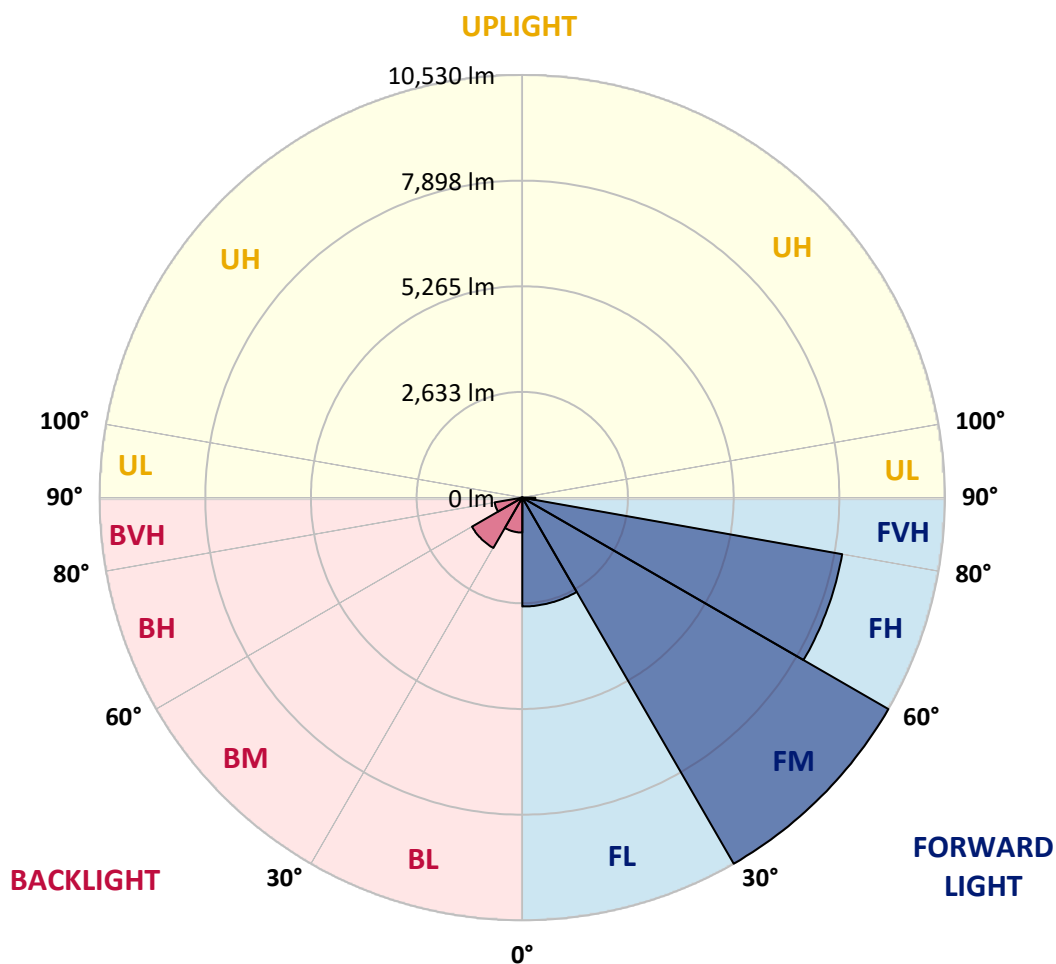
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2711.3	11.0			
FM	(30°-60°)	10530.0	42.6			
FH	(60°-80°)	8091.6	32.8			G4/12000
FVH	(80°-90°)	325.0	1.3			G3/500
BL	(0°-30°)	870.7	3.5	B2/1000		
BM	(30°-60°)	1447.3	5.9	B2/2500		
BH	(60°-80°)	698.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	30.4	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°	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4
2.5°	8976.6	8937.2	8847.1	8572.9	8334.4	8022.6	7707.1	7459.2	7307.1	7027.3	6899.6
5°	8696.8	8715.6	8454.6	7891.2	7263.9	6835.8	6368.2	5996.3	5586.9	5327.8	5055.5
7.5°	7966.3	7928.7	7645.2	6860.2	6097.7	5478.0	4886.4	4405.7	4103.3	3861.1	3658.3
10°	7340.9	7312.8	6950.3	5940.0	5121.2	4657.3	4257.3	3836.7	3511.8	3156.8	2873.3
12.5°	6948.4	6884.6	6467.7	5412.3	4745.6	4313.7	3878.0	3440.4	2991.6	2632.9	2289.2
15°	6817.0	6725.0	6261.1	5230.1	4505.2	3956.9	3410.4	2907.1	2390.6	1994.4	1735.2
17.5°	7055.5	6903.4	6409.5	5198.2	4217.9	3491.1	2818.8	2163.4	1626.3	1324.0	1164.3
20°	7602.0	7427.3	6785.1	5166.3	3898.6	2969.0	2142.7	1528.7	1124.9	959.6	871.4
22.5°	8413.2	8172.9	7340.9	5217.0	3603.8	2460.1	1547.4	1079.8	893.9	790.6	728.6
25°	9387.9	9187.0	8045.2	5397.2	3370.9	2060.1	1196.3	882.6	753.1	689.2	642.3
27.5°	10456.5	10135.3	8956.0	5613.2	3158.7	1750.3	1049.8	788.7	670.4	612.2	587.8
30°	11217.0	10967.3	9718.4	5763.4	2893.9	1517.4	959.6	777.5	672.3	602.8	557.8
32.5°	11968.2	11649.0	10356.9	5832.9	2700.5	1355.9	830.1	677.9	589.7	554.0	508.9
35°	12772.0	12437.7	10993.6	5795.4	2555.9	1248.8	753.1	604.7	505.2	445.1	400.0
37.5°	13585.1	13232.1	11626.4	5660.2	2465.8	1205.6	693.0	574.7	477.0	415.0	366.2
40°	14550.4	14079.0	12219.9	5549.4	2371.9	1183.1	653.5	555.9	456.3	390.6	341.8
42.5°	15339.2	14890.3	12781.4	5491.1	2308.0	1130.5	653.5	540.9	443.2	370.0	319.3
45°	16086.6	15620.8	13388.0	5538.1	2281.7	1064.8	661.0	539.0	433.8	354.9	304.2
47.5°	16711.9	16308.2	14011.4	5714.6	2247.9	993.4	621.6	565.3	428.2	341.8	289.2
50°	17450.0	17059.4	14835.9	6071.4	2187.8	922.1	572.8	608.5	426.3	330.5	276.1
52.5°	18490.4	18067.8	15973.9	6477.1	2092.0	813.2	527.7	602.8	418.8	311.7	262.9
55°	19761.7	19419.9	17292.2	6963.5	1960.6	691.1	456.3	535.2	396.2	279.8	240.4
57.5°	20576.8	20285.7	18280.0	7173.8	1759.6	565.3	401.9	448.8	362.4	249.8	214.1
59°	20672.5	20409.6	18486.6	7104.3	1628.2	516.4	375.6	385.0	353.1	232.9	199.1
60°	20591.8	20319.5	18404.0	6969.1	1506.1	482.6	353.1	341.8	354.9	223.5	187.8
62.5°	20073.5	19607.7	17602.1	6283.6	1316.4	443.2	313.6	279.8	313.6	200.9	167.1
65°	19072.5	18373.9	16015.2	5318.4	1241.3	420.7	266.7	234.7	238.5	176.5	144.6
67.5°	17324.2	16443.4	13902.5	4321.2	1209.4	422.5	225.4	210.3	184.0	150.2	127.7
70°	14559.8	13680.9	11155.1	3555.0	1194.4	422.5	191.6	180.3	154.0	125.8	110.8
72.5°	10317.5	9371.0	7525.0	2792.5	1076.1	420.7	163.4	163.4	125.8	105.2	90.1
75°	5829.2	5836.7	4730.6	1975.6	893.9	347.4	131.5	129.6	92.0	80.8	67.6
77.5°	3397.2	3337.1	3188.8	848.8	415.0	157.7	92.0	78.9	63.9	58.2	48.8
80°	1746.5	1436.6	1399.1	308.0	148.4	99.5	63.9	45.1	41.3	37.6	33.8
82.5°	516.4	518.3	462.0	123.9	82.6	65.7	31.9	24.4	22.5	20.7	20.7
85°	35.7	22.5	26.3	37.6	50.7	26.3	1.9	5.6	5.6	7.5	9.4
87.5°	3.8	1.9	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°	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4
2.5°	6758.8	6841.4	6687.4	6691.2	6563.5	6604.8	6454.5	6503.4	6415.1	6482.7	6681.8
5°	5085.5	5104.3	4980.3	4940.9	4959.7	5036.7	5066.7	4929.6	4987.9	4873.3	4865.8
7.5°	3583.1	3605.7	3534.3	3524.9	3660.1	3628.2	3686.4	3545.6	3412.2	3470.5	3363.4
10°	2783.1	2689.2	2542.8	2501.4	2475.1	2492.0	2492.0	2364.3	2345.6	2294.9	2371.9
12.5°	2197.2	2082.7	1943.7	1755.9	1708.9	1705.2	1635.7	1523.0	1487.3	1444.1	1508.0
15°	1596.3	1549.3	1432.9	1327.7	1220.7	1200.0	1087.3	995.3	873.2	856.3	850.7
17.5°	1123.0	1053.5	1051.7	991.6	929.6	888.3	783.1	677.9	631.0	625.4	625.4
20°	841.3	816.9	777.5	770.0	751.2	704.2	610.3	554.0	531.5	533.3	540.9
22.5°	708.0	691.1	655.4	638.5	631.0	589.7	520.2	482.6	471.4	471.4	473.2
25°	632.9	617.8	578.4	552.1	542.7	512.7	458.2	430.1	420.7	420.7	420.7
27.5°	576.5	557.8	516.4	493.9	477.0	443.2	409.4	381.2	371.8	371.8	373.7
30°	537.1	516.4	478.9	448.8	422.5	392.5	364.3	339.9	328.6	326.8	328.6
32.5°	484.5	465.7	428.2	409.4	379.3	343.7	321.1	298.6	287.3	289.2	287.3
35°	377.5	371.8	345.5	351.2	334.3	304.2	283.6	259.2	246.0	244.1	247.9
37.5°	343.7	321.1	291.1	293.0	287.3	276.1	242.3	216.0	206.6	206.6	208.5
40°	317.4	294.8	261.0	244.1	246.0	246.0	210.3	182.2	172.8	170.9	174.6
42.5°	294.8	272.3	234.7	206.6	199.1	208.5	178.4	150.2	140.8	137.1	140.8
45°	279.8	255.4	212.2	180.3	157.7	169.0	146.5	123.9	112.7	112.7	110.8
47.5°	264.8	242.3	195.3	155.9	131.5	125.8	120.2	99.5	88.3	86.4	88.3
50°	251.6	229.1	176.5	135.2	110.8	97.7	97.7	78.9	71.4	67.6	69.5
52.5°	238.5	214.1	159.6	120.2	95.8	78.9	69.5	63.9	58.2	56.3	58.2
55°	219.7	195.3	142.7	103.3	82.6	65.7	54.5	52.6	48.8	45.1	48.8
57.5°	197.2	174.6	125.8	88.3	65.7	50.7	45.1	43.2	39.4	37.6	37.6
59°	184.0	163.4	116.4	77.0	58.2	45.1	41.3	39.4	35.7	31.9	33.8
60°	176.5	159.6	110.8	71.4	52.6	41.3	37.6	35.7	31.9	30.0	31.9
62.5°	155.9	142.7	97.7	58.2	41.3	30.0	26.3	28.2	26.3	24.4	26.3
65°	137.1	125.8	82.6	45.1	31.9	20.7	18.8	24.4	22.5	20.7	22.5
67.5°	122.1	108.9	69.5	33.8	22.5	11.3	13.1	20.7	20.7	18.8	20.7
70°	105.2	93.9	56.3	24.4	11.3	5.6	9.4	15.0	18.8	16.9	18.8
72.5°	86.4	73.2	43.2	16.9	5.6	0.0	5.6	13.1	18.8	16.9	18.8
75°	67.6	54.5	31.9	9.4	0.0	0.0	1.9	11.3	18.8	16.9	18.8
77.5°	48.8	39.4	18.8	1.9	0.0	0.0	1.9	11.3	18.8	16.9	18.8
80°	31.9	28.2	7.5	0.0	0.0	0.0	1.9	11.3	18.8	18.8	20.7
82.5°	20.7	15.0	0.0	0.0	0.0	0.0	3.8	15.0	20.7	22.5	22.5
85°	9.4	0.0	0.0	0.0	0.0	0.0	7.5	18.8	24.4	24.4	24.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.8	13.1	22.5	28.2	28.2	28.2
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°	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4
2.5°	6715.6	6833.9	7001.0	7258.3	7466.8	7795.4	8047.0	8390.7	8738.1	8843.3	9006.7
5°	4942.8	5094.9	5474.2	5819.8	6037.6	6732.5	7171.9	7864.9	8486.5	8785.1	9110.0
7.5°	3432.9	3613.2	3902.4	4385.0	4843.3	5408.5	6118.4	6910.9	7821.7	8248.0	8706.2
10°	2409.4	2634.8	3042.3	3438.5	4015.1	4552.2	5252.6	6127.8	7132.5	7635.8	8210.4
12.5°	1521.1	1722.1	2261.1	2706.1	3425.4	4048.9	4694.9	5487.4	6651.7	7168.2	7771.0
15°	869.5	1038.5	1290.2	1861.1	2659.2	3483.6	4289.3	5209.5	6405.7	7042.3	7694.0
17.5°	647.9	693.0	805.6	1128.7	1855.4	2818.8	3915.5	5124.9	6572.8	7320.3	8063.9
20°	544.6	574.7	627.2	754.9	1183.1	2170.9	3551.2	5140.0	7113.7	8052.7	8758.8
22.5°	488.3	507.0	550.2	632.9	807.5	1581.2	3124.9	5228.2	7769.1	8952.2	9767.3
25°	428.2	452.6	490.1	561.5	672.3	1096.7	2704.3	5425.4	8687.4	10094.0	10860.2
27.5°	381.2	403.8	441.3	507.0	589.7	837.6	2214.1	5594.4	9656.5	11243.3	11870.6
30°	334.3	356.8	394.4	447.0	522.1	677.9	1686.4	5694.0	10597.3	12105.3	12587.9
32.5°	294.8	313.6	349.3	396.2	458.2	574.7	1329.6	5590.7	11316.6	12888.4	13211.4
35°	255.4	277.9	308.0	351.2	405.6	490.1	1106.1	5233.9	11934.4	13694.1	13810.5
37.5°	214.1	240.4	272.3	311.7	354.9	450.7	888.3	4839.5	12595.5	14698.8	14507.2
40°	180.3	204.7	234.7	277.9	317.4	413.2	683.6	4418.8	13309.1	15641.5	15267.8
42.5°	146.5	172.8	208.5	247.9	313.6	360.6	529.6	3983.1	13949.5	16462.2	15955.1
45°	116.4	139.0	176.5	227.2	311.7	309.9	409.4	3553.1	14432.1	17048.1	16467.8
47.5°	92.0	110.8	148.4	221.6	287.3	262.9	328.6	3286.4	14939.1	17575.8	16860.3
50°	73.2	92.0	127.7	231.0	251.6	225.4	276.1	3329.6	15429.3	17844.3	17021.8
52.5°	62.0	80.8	110.8	182.2	193.4	197.2	242.3	3528.7	16062.2	18131.7	17342.9
55°	54.5	71.4	93.9	127.7	150.2	176.5	221.6	3673.3	16909.1	18747.6	18050.9
57.5°	43.2	62.0	84.5	108.9	123.9	154.0	204.7	3684.6	17675.3	19538.3	18991.8
59°	39.4	56.3	78.9	103.3	110.8	139.0	193.4	3588.8	17703.5	19656.6	19423.7
60°	35.7	54.5	75.1	95.8	105.2	131.5	184.0	3478.0	17448.1	19468.8	19602.1
62.5°	30.0	46.9	65.7	77.0	90.1	108.9	159.6	3076.1	16210.5	18618.1	19271.6
65°	26.3	41.3	56.3	63.9	75.1	93.9	140.8	2462.0	14843.4	17465.0	18325.1
67.5°	24.4	37.6	48.8	54.5	65.7	86.4	125.8	1739.0	13072.5	16002.1	16903.5
70°	22.5	35.7	43.2	50.7	58.2	73.2	107.0	1014.1	10069.6	13436.8	14388.9
72.5°	22.5	33.8	37.6	43.2	50.7	65.7	99.5	548.4	6884.6	10249.9	11479.9
75°	22.5	31.9	33.8	37.6	45.1	60.1	88.3	287.3	4450.8	7121.2	8788.8
77.5°	22.5	30.0	33.8	35.7	43.2	52.6	77.0	180.3	2965.3	4987.9	5940.0
80°	24.4	30.0	31.9	35.7	41.3	48.8	63.9	120.2	1742.7	3001.0	3615.1
82.5°	26.3	30.0	33.8	37.6	43.2	46.9	56.3	75.1	803.8	1985.0	2246.0
85°	28.2	31.9	35.7	39.4	45.1	46.9	52.6	54.5	131.5	895.8	1211.3
87.5°	30.0	33.8	37.6	41.3	48.8	48.8	48.8	48.8	45.1	95.8	244.1
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: P459339

CATALOG NUMBER: GALN-SA8A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4	8165.4
2.5°	9213.3	9425.5	9573.8	9611.4	9504.3	9455.5	9320.3	9110.0	8982.3	8976.6
5°	9709.0	10206.7	10552.2	10610.5	10403.9	10054.6	9639.6	9104.3	8790.7	8696.8
7.5°	9624.5	10495.9	11051.8	11132.5	10785.1	10118.4	9314.7	8452.7	8110.9	7966.3
10°	9277.1	10340.0	11134.4	11262.1	10798.3	9859.3	8837.7	7876.2	7451.7	7340.9
12.5°	8980.4	10054.6	10760.7	10937.2	10586.0	9648.9	8552.2	7506.2	7051.7	6948.4
15°	8850.8	9716.5	10148.5	10238.6	10180.4	9517.5	8522.2	7449.9	6929.7	6817.0
17.5°	8980.4	9429.2	9483.7	9575.7	9705.3	9504.3	8811.4	7756.0	7194.5	7055.5
20°	9320.3	9179.5	8954.1	8993.5	9290.3	9558.8	9325.9	8433.9	7750.3	7602.0
22.5°	9898.7	9117.5	8606.7	8572.9	8948.5	9741.0	10080.9	9352.2	8559.7	8413.2
25°	10608.6	9273.4	8479.0	8405.7	8815.1	10007.6	10901.5	10477.1	9611.4	9387.9
27.5°	11382.3	9596.4	8479.0	8407.6	8803.9	10244.3	11603.9	11472.4	10700.6	10456.5
30°	11806.7	9863.0	8601.0	8520.3	8942.8	10381.3	11979.5	12357.0	11519.4	11217.0
32.5°	12186.1	10233.0	8839.5	8687.4	9233.9	10584.2	12315.6	13108.1	12171.0	11968.2
35°	12535.4	10629.2	9168.2	8991.7	9617.0	10862.1	12687.5	13896.9	13078.1	12772.0
37.5°	12920.3	11089.3	9680.9	9530.6	10257.4	11403.0	13128.8	14933.5	13970.1	13585.1
40°	13339.1	11622.7	10524.1	10460.2	11275.3	12015.2	13686.5	16039.6	14988.0	14550.4
42.5°	13765.4	12236.8	11556.9	11662.1	12428.3	12873.4	14259.3	16890.3	15821.8	15339.2
45°	14152.3	13021.8	12899.7	13419.9	13772.9	13711.0	14683.7	17489.4	16548.6	16086.6
47.5°	14640.6	14165.4	14524.1	15326.0	15335.4	14621.8	15004.9	17979.6	17173.9	16711.9
50°	15187.0	15515.7	16621.8	17438.7	17219.0	15517.6	15380.5	18559.8	17819.9	17450.0
52.5°	15819.9	17027.4	18559.8	19466.9	18954.2	16494.1	16005.8	19187.1	18845.3	18490.4
55°	16556.1	18058.4	20492.3	21215.3	20698.8	17707.3	16956.1	20037.8	20004.0	19761.7
57.5°	17388.0	19147.6	21611.5	22589.9	22129.8	19130.7	18283.8	20839.7	20712.0	20576.8
59°	18045.3	19707.3	22105.4	23119.5	22841.6	20127.9	19175.8	21339.2	20875.4	20672.5
60°	18443.4	20086.6	22287.6	23190.9	23127.0	20721.4	19741.1	21583.4	20873.5	20591.8
62.5°	19624.6	20749.5	22218.1	22873.5	23123.3	21859.4	21399.3	21851.9	20486.6	20073.5
65°	20045.3	20529.8	21066.9	20986.2	21200.3	21801.2	22458.5	21557.1	19660.3	19072.5
67.5°	19226.5	18120.4	18310.1	17771.1	17665.9	19382.4	22028.4	20114.8	18043.4	17324.2
70°	16206.8	13881.9	13786.1	14034.0	13354.1	15692.2	19780.5	17337.3	15374.8	14559.8
72.5°	12757.0	9810.4	9002.9	9915.6	9895.0	11972.0	16432.1	12302.5	10387.0	10317.5
75°	10032.0	6830.1	5994.4	6142.8	6428.2	8666.8	13087.5	7812.3	6396.3	5829.2
77.5°	6734.4	4839.5	4514.6	4332.4	4640.4	5564.4	8279.9	4236.7	3586.9	3397.2
80°	3881.7	3515.5	3992.5	3624.5	3789.7	3506.1	4118.4	1943.7	1613.2	1746.5
82.5°	2525.9	2001.9	2133.4	1585.0	2167.2	2185.9	1322.1	574.7	486.4	516.4
85°	1579.4	939.0	527.7	375.6	747.4	1374.7	413.2	35.7	41.3	35.7
87.5°	409.4	155.9	65.7	97.7	120.2	107.0	95.8	5.6	1.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)