

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: P453510

Luminaire Tested: **GALN-SA4C-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453510
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-SA4C-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 19973 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

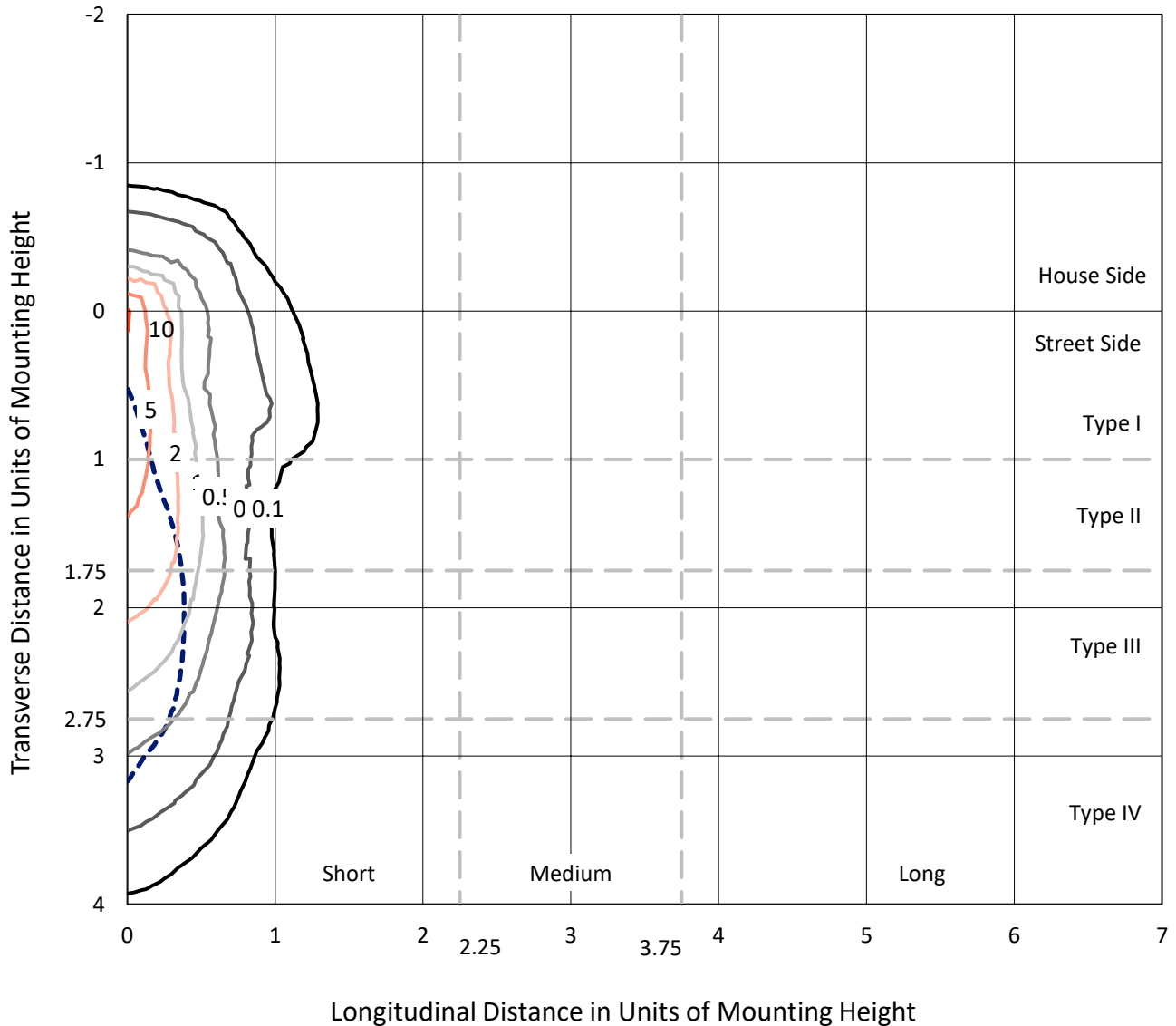
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

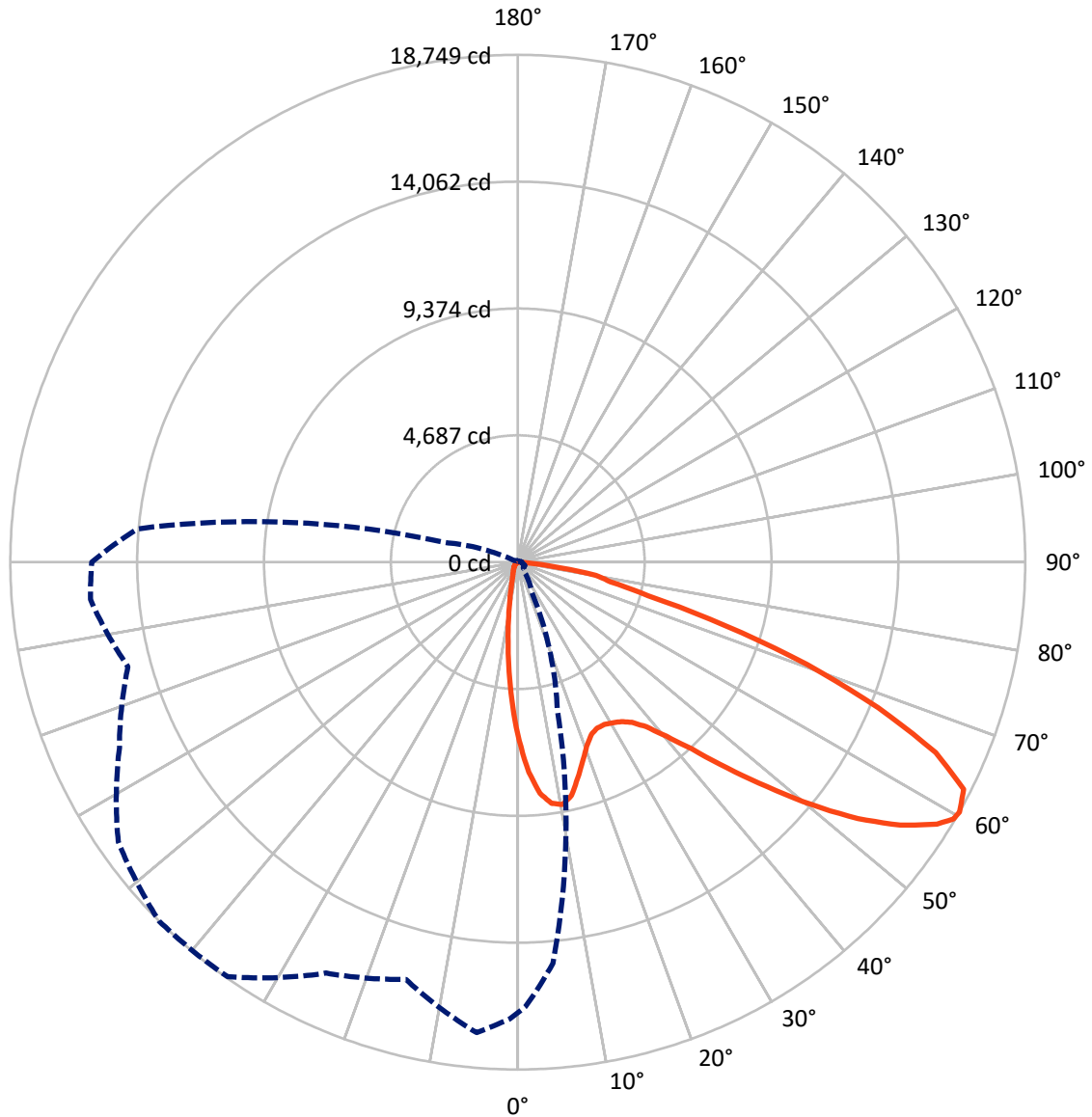
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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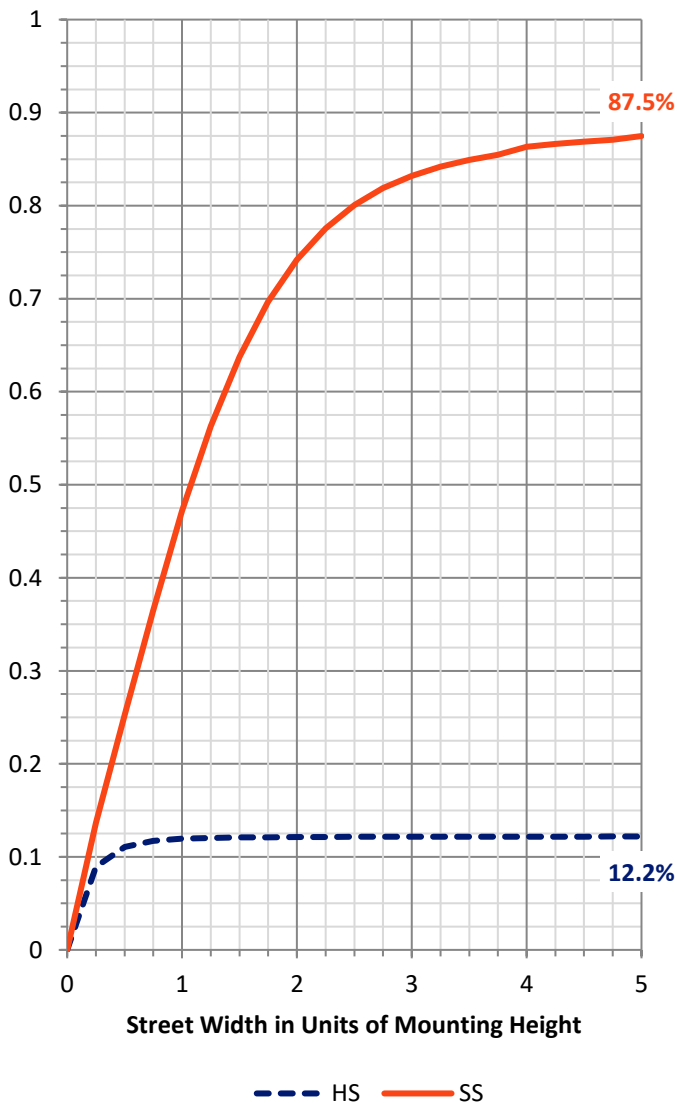
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2463.5	0.0	2463.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	17509.5	0.0	17509.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	19973.0	0.0	19973.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.0	2.5
10°-20°	975.1	4.9
20°-30°	1429.8	7.2
30°-40°	2126.3	10.6
40°-50°	3094.4	15.5
50°-60°	4462.4	22.3
60°-70°	4908.2	24.6
70°-80°	2198.5	11.0
80°-90°	287.3	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°	19973.0	100.0
0°-180°	19973.0	100.0



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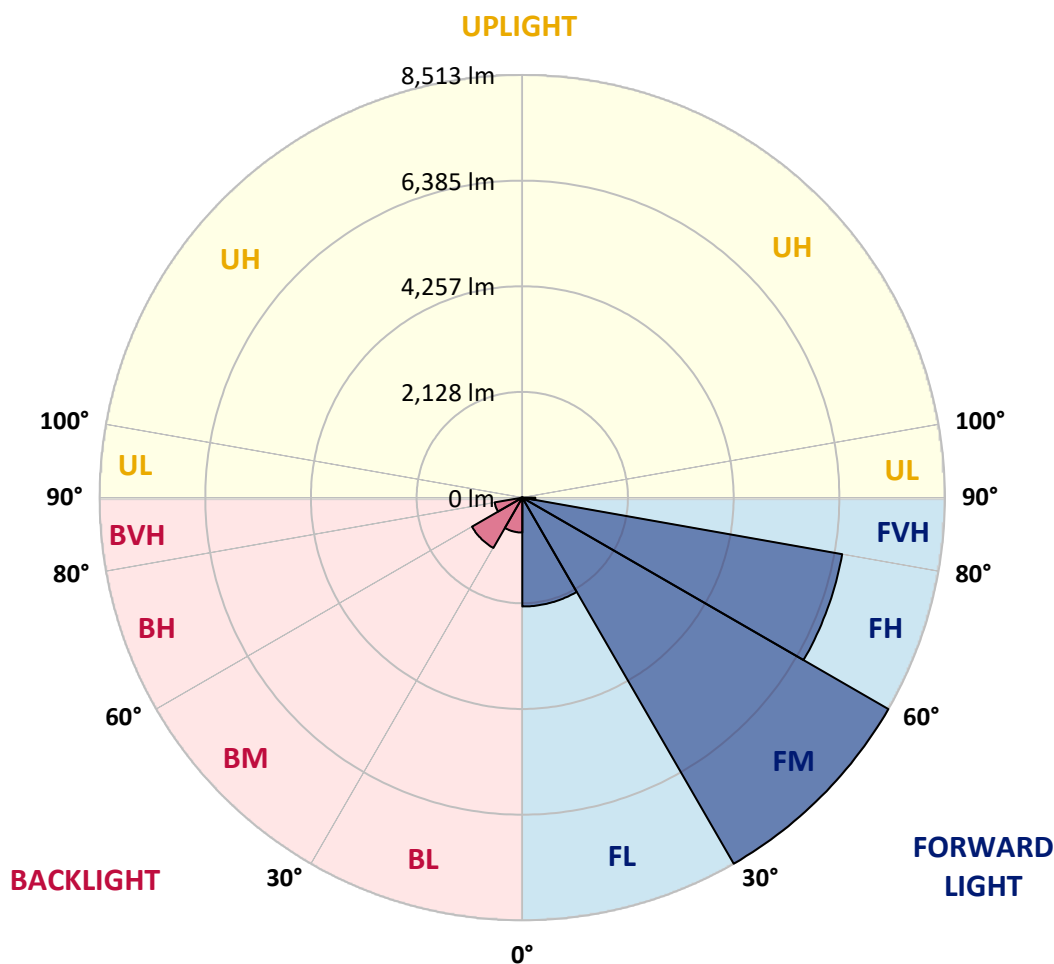
CATALOG NUMBER: GALN-SA4C-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2192.0	11.0			
FM	(30°-60°)	8513.1	42.6			
FH	(60°-80°)	6541.8	32.8			G3/7500
FVH	(80°-90°)	262.7	1.3			G3/500
BL	(0°-30°)	703.9	3.5	B2/1000		
BM	(30°-60°)	1170.1	5.9	B2/2500		
BH	(60°-80°)	564.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	24.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4
2.5°	7257.2	7225.4	7152.5	6930.8	6738.0	6486.0	6230.9	6030.5	5907.5	5681.3	5578.1
5°	7031.0	7046.2	6835.2	6379.7	5872.6	5526.4	5148.4	4847.8	4516.8	4307.3	4087.1
7.5°	6440.4	6410.1	6180.8	5546.2	4929.8	4428.7	3950.5	3561.8	3317.4	3121.5	2957.6
10°	5934.8	5912.1	5619.1	4802.2	4140.3	3765.3	3441.9	3101.8	2839.1	2552.2	2322.9
12.5°	5617.5	5565.9	5228.9	4375.6	3836.6	3487.4	3135.2	2781.4	2418.6	2128.6	1850.7
15°	5511.3	5436.9	5061.9	4228.3	3642.3	3199.0	2757.1	2350.3	1932.7	1612.4	1402.9
17.5°	5704.1	5581.1	5181.8	4202.5	3410.0	2822.4	2278.9	1749.0	1314.8	1070.4	941.3
20°	6145.9	6004.7	5485.4	4176.7	3151.9	2400.4	1732.3	1235.9	909.4	775.8	704.5
22.5°	6801.8	6607.4	5934.8	4217.7	2913.5	1988.9	1251.0	873.0	722.7	639.2	589.1
25°	7589.7	7427.3	6504.2	4363.5	2725.3	1665.5	967.1	713.6	608.8	557.2	519.2
27.5°	8453.6	8194.0	7240.5	4538.1	2553.7	1415.0	848.7	637.7	542.0	495.0	475.2
30°	9068.5	8866.6	7857.0	4659.5	2339.6	1226.7	775.8	628.6	543.5	487.4	450.9
32.5°	9675.8	9417.7	8373.2	4715.7	2183.2	1096.2	671.1	548.1	476.7	447.9	411.4
35°	10325.6	10055.4	8887.9	4685.3	2066.3	1009.6	608.8	488.9	408.4	359.8	323.4
37.5°	10983.0	10697.6	9399.5	4576.0	1993.5	974.7	560.2	464.6	385.6	335.5	296.1
40°	11763.4	11382.3	9879.3	4486.4	1917.6	956.5	528.4	449.4	368.9	315.8	276.3
42.5°	12401.1	12038.2	10333.2	4439.4	1865.9	914.0	528.4	437.3	358.3	299.1	258.1
45°	13005.4	12628.8	10823.6	4477.3	1844.7	860.8	534.4	435.7	350.7	286.9	246.0
47.5°	13510.9	13184.5	11327.7	4620.0	1817.3	803.2	502.5	457.0	346.2	276.3	233.8
50°	14107.6	13791.8	11994.2	4908.5	1768.8	745.5	463.1	491.9	344.6	267.2	223.2
52.5°	14948.7	14607.1	12914.3	5236.5	1691.3	657.4	426.6	487.4	338.6	252.0	212.6
55°	15976.6	15700.2	13980.1	5629.7	1585.1	558.7	368.9	432.7	320.4	226.2	194.3
57.5°	16635.5	16400.2	14778.7	5799.7	1422.6	457.0	324.9	362.9	293.0	201.9	173.1
59°	16712.9	16500.4	14945.7	5743.5	1316.3	417.5	303.7	311.2	285.4	188.3	160.9
60°	16647.6	16427.5	14878.9	5634.2	1217.6	390.2	285.4	276.3	286.9	180.7	151.8
62.5°	16228.6	15852.1	14230.6	5080.1	1064.3	358.3	253.5	226.2	253.5	162.5	135.1
65°	15419.4	14854.6	12947.7	4299.7	1003.6	340.1	215.6	189.8	192.8	142.7	116.9
67.5°	14005.9	13293.8	11239.6	3493.5	977.8	341.6	182.2	170.0	148.8	121.5	103.2
70°	11771.0	11060.5	9018.4	2874.1	965.6	341.6	154.9	145.8	124.5	101.7	89.6
72.5°	8341.3	7576.1	6083.6	2257.6	870.0	340.1	132.1	132.1	101.7	85.0	72.9
75°	4712.7	4718.7	3824.5	1597.2	722.7	280.9	106.3	104.8	74.4	65.3	54.7
77.5°	2746.5	2697.9	2578.0	686.3	335.5	127.5	74.4	63.8	51.6	47.1	39.5
80°	1412.0	1161.5	1131.1	249.0	119.9	80.5	51.6	36.4	33.4	30.4	27.3
82.5°	417.5	419.0	373.5	100.2	66.8	53.1	25.8	19.7	18.2	16.7	16.7
85°	28.8	18.2	21.3	30.4	41.0	21.3	1.5	4.6	4.6	6.1	7.6
87.5°	3.0	1.5	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°	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4
2.5°	5464.2	5531.0	5406.5	5409.5	5306.3	5339.7	5218.2	5257.7	5186.4	5241.0	5401.9
5°	4111.4	4126.6	4026.4	3994.5	4009.7	4072.0	4096.2	3985.4	4032.5	3939.9	3933.8
7.5°	2896.8	2915.0	2857.4	2849.8	2959.1	2933.3	2980.3	2866.5	2758.7	2805.7	2719.2
10°	2250.1	2174.1	2055.7	2022.3	2001.1	2014.7	2014.7	1911.5	1896.3	1855.3	1917.6
12.5°	1776.4	1683.7	1571.4	1419.6	1381.6	1378.6	1322.4	1231.3	1202.5	1167.5	1219.2
15°	1290.5	1252.6	1158.4	1073.4	986.9	970.2	879.1	804.7	706.0	692.3	687.8
17.5°	907.9	851.7	850.2	801.6	751.5	718.1	633.1	548.1	510.1	505.6	505.6
20°	680.2	660.4	628.6	622.5	607.3	569.3	493.4	447.9	429.7	431.2	437.3
22.5°	572.4	558.7	529.9	516.2	510.1	476.7	420.6	390.2	381.1	381.1	382.6
25°	511.7	499.5	467.6	446.4	438.8	414.5	370.5	347.7	340.1	340.1	340.1
27.5°	466.1	450.9	417.5	399.3	385.6	358.3	331.0	308.2	300.6	300.6	302.1
30°	434.2	417.5	387.2	362.9	341.6	317.3	294.5	274.8	265.7	264.2	265.7
32.5°	391.7	376.5	346.2	331.0	306.7	277.8	259.6	241.4	232.3	233.8	232.3
35°	305.2	300.6	279.4	283.9	270.2	246.0	229.3	209.5	198.9	197.4	200.4
37.5°	277.8	259.6	235.3	236.8	232.3	223.2	195.9	174.6	167.0	167.0	168.5
40°	256.6	238.4	211.0	197.4	198.9	198.9	170.0	147.3	139.7	138.2	141.2
42.5°	238.4	220.1	189.8	167.0	160.9	168.5	144.2	121.5	113.9	110.8	113.9
45°	226.2	206.5	171.6	145.8	127.5	136.6	118.4	100.2	91.1	91.1	89.6
47.5°	214.1	195.9	157.9	126.0	106.3	101.7	97.2	80.5	71.4	69.8	71.4
50°	203.4	185.2	142.7	109.3	89.6	78.9	78.9	63.8	57.7	54.7	56.2
52.5°	192.8	173.1	129.1	97.2	77.4	63.8	56.2	51.6	47.1	45.5	47.1
55°	177.6	157.9	115.4	83.5	66.8	53.1	44.0	42.5	39.5	36.4	39.5
57.5°	159.4	141.2	101.7	71.4	53.1	41.0	36.4	34.9	31.9	30.4	30.4
59°	148.8	132.1	94.1	62.2	47.1	36.4	33.4	31.9	28.8	25.8	27.3
60°	142.7	129.1	89.6	57.7	42.5	33.4	30.4	28.8	25.8	24.3	25.8
62.5°	126.0	115.4	78.9	47.1	33.4	24.3	21.3	22.8	21.3	19.7	21.3
65°	110.8	101.7	66.8	36.4	25.8	16.7	15.2	19.7	18.2	16.7	18.2
67.5°	98.7	88.1	56.2	27.3	18.2	9.1	10.6	16.7	16.7	15.2	16.7
70°	85.0	75.9	45.5	19.7	9.1	4.6	7.6	12.1	15.2	13.7	15.2
72.5°	69.8	59.2	34.9	13.7	4.6	0.0	4.6	10.6	15.2	13.7	15.2
75°	54.7	44.0	25.8	7.6	0.0	0.0	1.5	9.1	15.2	13.7	15.2
77.5°	39.5	31.9	15.2	1.5	0.0	0.0	1.5	9.1	15.2	13.7	15.2
80°	25.8	22.8	6.1	0.0	0.0	0.0	1.5	9.1	15.2	15.2	16.7
82.5°	16.7	12.1	0.0	0.0	0.0	0.0	3.0	12.1	16.7	18.2	18.2
85°	7.6	0.0	0.0	0.0	0.0	0.0	6.1	15.2	19.7	19.7	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	10.6	18.2	22.8	22.8	22.8
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°	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4
2.5°	5429.3	5524.9	5660.0	5868.0	6036.6	6302.3	6505.7	6783.6	7064.4	7149.5	7281.5
5°	3996.0	4119.0	4425.7	4705.1	4881.2	5442.9	5798.2	6358.4	6861.0	7102.4	7365.0
7.5°	2775.4	2921.1	3154.9	3545.1	3915.6	4372.6	4946.5	5587.2	6323.5	6668.2	7038.6
10°	1947.9	2130.1	2459.6	2779.9	3246.0	3680.2	4246.6	4954.1	5766.3	6173.2	6637.8
12.5°	1229.8	1392.2	1828.0	2187.8	2769.3	3273.4	3795.6	4436.3	5377.7	5795.2	6282.5
15°	703.0	839.6	1043.0	1504.6	2149.8	2816.4	3467.7	4211.6	5178.8	5693.4	6220.3
17.5°	523.8	560.2	651.3	912.5	1500.0	2278.9	3165.6	4143.3	5313.9	5918.1	6519.4
20°	440.3	464.6	507.1	610.3	956.5	1755.1	2871.0	4155.5	5751.1	6510.3	7081.1
22.5°	394.7	409.9	444.8	511.7	652.8	1278.4	2526.4	4226.8	6281.0	7237.5	7896.4
25°	346.2	365.9	396.3	454.0	543.5	886.7	2186.3	4386.2	7023.4	8160.6	8780.1
27.5°	308.2	326.4	356.8	409.9	476.7	677.1	1790.0	4522.9	7806.9	9089.8	9596.9
30°	270.2	288.5	318.8	361.3	422.1	548.1	1363.4	4603.3	8567.5	9786.7	10176.8
32.5°	238.4	253.5	282.4	320.4	370.5	464.6	1074.9	4519.8	9149.0	10419.8	10680.9
35°	206.5	224.7	249.0	283.9	327.9	396.3	894.3	4231.4	9648.5	11071.1	11165.2
37.5°	173.1	194.3	220.1	252.0	286.9	364.4	718.1	3912.5	10182.9	11883.4	11728.5
40°	145.8	165.5	189.8	224.7	256.6	334.0	552.6	3572.4	10759.9	12645.5	12343.4
42.5°	118.4	139.7	168.5	200.4	253.5	291.5	428.1	3220.2	11277.6	13309.0	12899.1
45°	94.1	112.4	142.7	183.7	252.0	250.5	331.0	2872.5	11667.8	13782.7	13313.6
47.5°	74.4	89.6	119.9	179.2	232.3	212.6	265.7	2656.9	12077.7	14209.3	13630.9
50°	59.2	74.4	103.2	186.7	203.4	182.2	223.2	2691.9	12474.0	14426.4	13761.4
52.5°	50.1	65.3	89.6	147.3	156.4	159.4	195.9	2852.8	12985.6	14658.7	14021.1
55°	44.0	57.7	75.9	103.2	121.5	142.7	179.2	2969.7	13670.3	15156.7	14593.4
57.5°	34.9	50.1	68.3	88.1	100.2	124.5	165.5	2978.8	14289.8	15795.9	15354.1
59°	31.9	45.5	63.8	83.5	89.6	112.4	156.4	2901.4	14312.6	15891.5	15703.3
60°	28.8	44.0	60.7	77.4	85.0	106.3	148.8	2811.8	14106.1	15739.7	15847.5
62.5°	24.3	38.0	53.1	62.2	72.9	88.1	129.1	2486.9	13105.6	15052.0	15580.3
65°	21.3	33.4	45.5	51.6	60.7	75.9	113.9	1990.4	12000.3	14119.7	14815.1
67.5°	19.7	30.4	39.5	44.0	53.1	69.8	101.7	1405.9	10568.6	12937.0	13665.8
70°	18.2	28.8	34.9	41.0	47.1	59.2	86.5	819.9	8140.9	10863.1	11632.9
72.5°	18.2	27.3	30.4	34.9	41.0	53.1	80.5	443.3	5565.9	8286.6	9281.1
75°	18.2	25.8	27.3	30.4	36.4	48.6	71.4	232.3	3598.3	5757.2	7105.4
77.5°	18.2	24.3	27.3	28.8	34.9	42.5	62.2	145.8	2397.3	4032.5	4802.2
80°	19.7	24.3	25.8	28.8	33.4	39.5	51.6	97.2	1408.9	2426.2	2922.6
82.5°	21.3	24.3	27.3	30.4	34.9	38.0	45.5	60.7	649.8	1604.8	1815.8
85°	22.8	25.8	28.8	31.9	36.4	38.0	42.5	44.0	106.3	724.2	979.3
87.5°	24.3	27.3	30.4	33.4	39.5	39.5	39.5	39.5	36.4	77.4	197.4
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: P453510

CATALOG NUMBER: GALN-SA4C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4
2.5°	7448.5	7620.1	7740.1	7770.4	7683.9	7644.4	7535.1	7365.0	7261.8	7257.2
5°	7849.4	8251.7	8531.1	8578.1	8411.1	8128.7	7793.2	7360.5	7106.9	7031.0
7.5°	7781.0	8485.5	8934.9	9000.2	8719.3	8180.3	7530.5	6833.7	6557.3	6440.4
10°	7500.2	8359.5	9001.7	9105.0	8730.0	7970.8	7144.9	6367.6	6024.4	5934.8
12.5°	7260.3	8128.7	8699.6	8842.3	8558.4	7800.8	6914.1	6068.5	5701.0	5617.5
15°	7155.5	7855.4	8204.6	8277.5	8230.4	7694.5	6889.8	6022.9	5602.4	5511.3
17.5°	7260.3	7623.1	7667.2	7741.6	7846.3	7683.9	7123.6	6270.4	5816.4	5704.1
20°	7535.1	7421.2	7239.0	7270.9	7510.8	7727.9	7539.6	6818.5	6265.8	6145.9
22.5°	8002.7	7371.1	6958.2	6930.8	7234.5	7875.2	8150.0	7560.9	6920.2	6801.8
25°	8576.6	7497.1	6854.9	6795.7	7126.7	8090.8	8813.5	8470.3	7770.4	7589.7
27.5°	9202.1	7758.3	6854.9	6797.2	7117.6	8282.1	9381.3	9275.0	8651.0	8453.6
30°	9545.3	7973.9	6953.6	6888.3	7229.9	8392.9	9684.9	9990.1	9313.0	9068.5
32.5°	9851.9	8273.0	7146.4	7023.4	7465.2	8556.9	9956.7	10597.4	9839.8	9675.8
35°	10134.3	8593.3	7412.1	7269.4	7775.0	8781.6	10257.3	11235.1	10573.1	10325.6
37.5°	10445.6	8965.3	7826.6	7705.1	8292.7	9218.8	10614.1	12073.1	11294.3	10983.0
40°	10784.1	9396.5	8508.3	8456.7	9115.6	9713.8	11065.0	12967.4	12117.2	11763.4
42.5°	11128.8	9892.9	9343.3	9428.3	10047.8	10407.6	11528.1	13655.2	12791.3	12401.1
45°	11441.6	10527.6	10428.9	10849.4	11134.9	11084.8	11871.2	14139.5	13378.8	13005.4
47.5°	11836.3	11452.2	11742.2	12390.5	12398.1	11821.1	12130.8	14535.7	13884.4	13510.9
50°	12278.1	12543.8	13438.1	14098.5	13920.9	12545.3	12434.5	15004.9	14406.7	14107.6
52.5°	12789.8	13766.0	15004.9	15738.2	15323.7	13334.8	12940.1	15512.0	15235.7	14948.7
55°	13384.9	14599.5	16567.2	17151.7	16734.2	14315.6	13708.3	16199.8	16172.4	15976.6
57.5°	14057.5	15480.1	17472.1	18263.1	17891.1	15466.4	14781.7	16848.0	16744.8	16635.5
59°	14588.9	15932.5	17871.4	18691.2	18466.5	16272.6	15502.9	17251.9	16876.9	16712.9
60°	14910.8	16239.2	18018.6	18748.9	18697.3	16752.4	15959.9	17449.3	16875.4	16647.6
62.5°	15865.7	16775.2	17962.4	18492.3	18694.2	17672.5	17300.5	17666.4	16562.6	16228.6
65°	16205.8	16597.5	17031.8	16966.5	17139.6	17625.4	18156.8	17428.0	15894.6	15419.4
67.5°	15543.9	14649.6	14803.0	14367.2	14282.2	15669.9	17809.1	16262.0	14587.4	14005.9
70°	13102.5	11222.9	11145.5	11345.9	10796.3	12686.5	15991.8	14016.5	12429.9	11771.0
72.5°	10313.5	7931.4	7278.5	8016.4	7999.7	9678.9	13284.7	9946.1	8397.5	8341.3
75°	8110.5	5521.9	4846.3	4966.2	5197.0	7006.7	10580.7	6315.9	5171.2	4712.7
77.5°	5444.5	3912.5	3649.9	3502.6	3751.6	4498.6	6694.0	3425.2	2899.9	2746.5
80°	3138.2	2842.2	3227.8	2930.2	3063.8	2834.6	3329.5	1571.4	1304.2	1412.0
82.5°	2042.0	1618.5	1724.7	1281.4	1752.1	1767.2	1068.8	464.6	393.2	417.5
85°	1276.9	759.1	426.6	303.7	604.3	1111.4	334.0	28.8	33.4	28.8
87.5°	331.0	126.0	53.1	78.9	97.2	86.5	77.4	4.6	1.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)