

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: P456294

Luminaire Tested: **GALN-SA7C-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456294
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-SA7C-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 35167 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

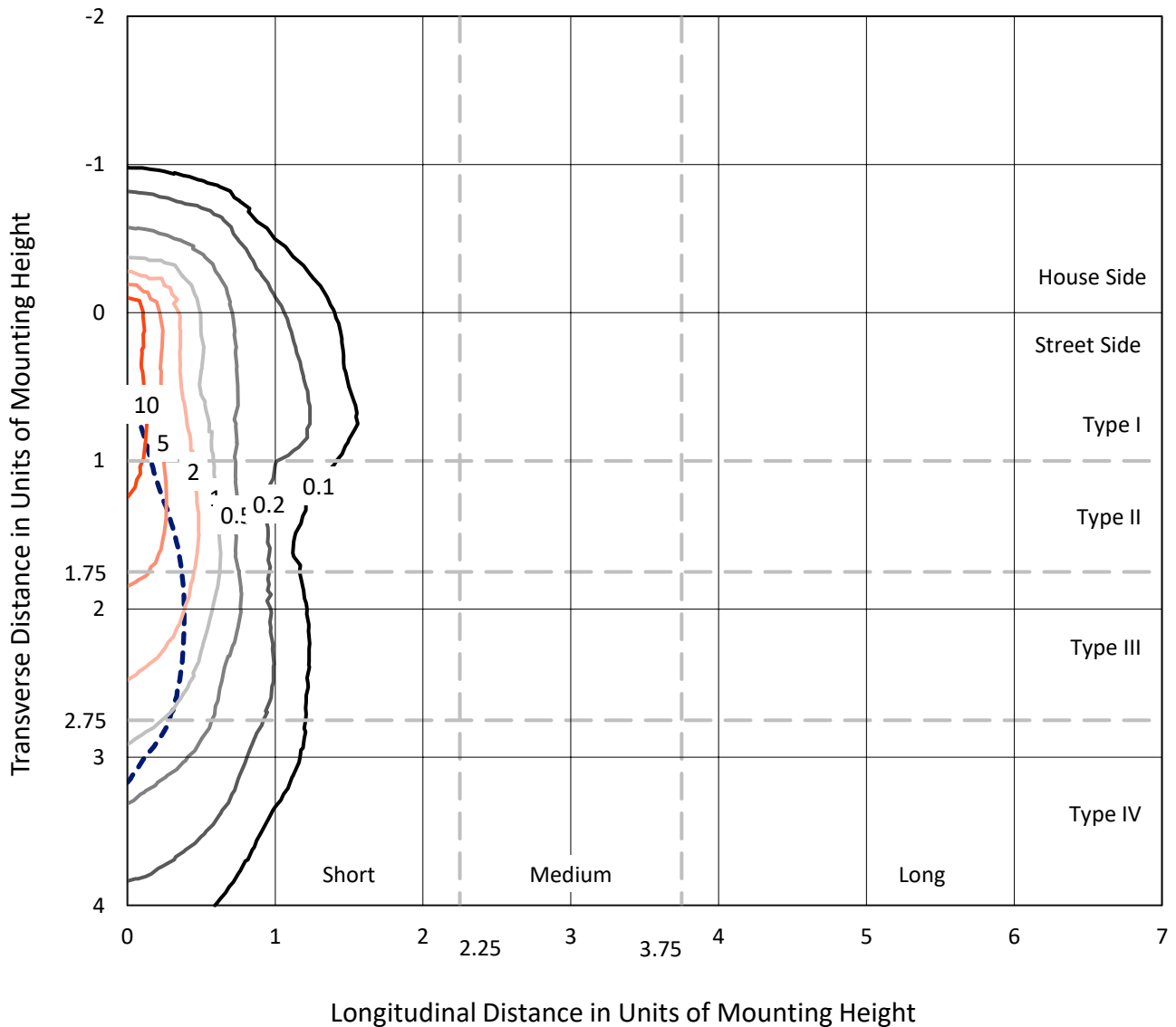
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

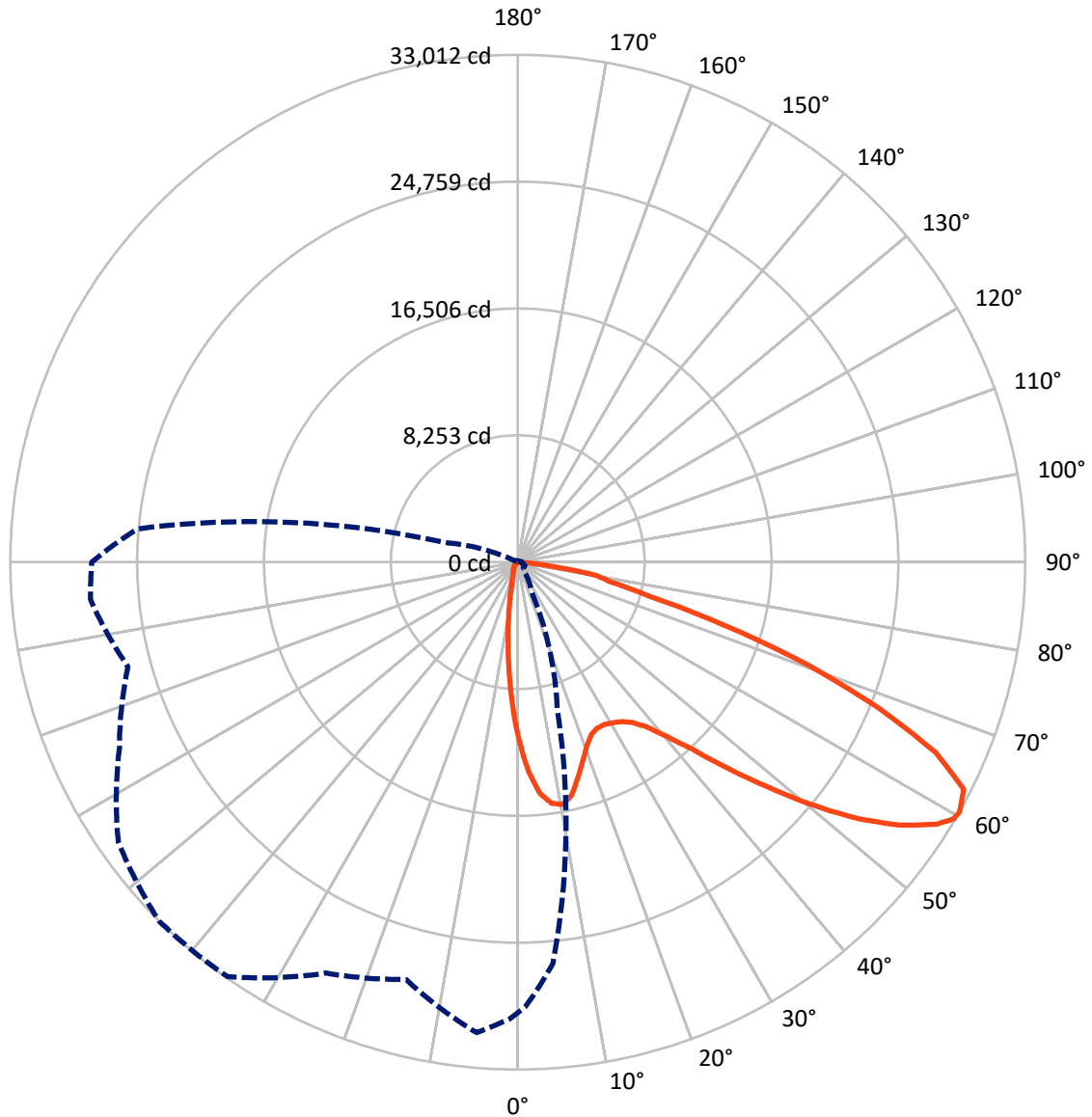
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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	4337.5	0.0	4337.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	30829.5	0.0	30829.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	35167.0	0.0	35167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.5	2.5
10°-20°	1716.9	4.9
20°-30°	2517.4	7.2
30°-40°	3743.9	10.6
40°-50°	5448.5	15.5
50°-60°	7857.1	22.3
60°-70°	8642.0	24.6
70°-80°	3870.9	11.0
80°-90°	505.8	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°	35167.0	100.0
0°-180°	35167.0	100.0

Coefficient of Utilization



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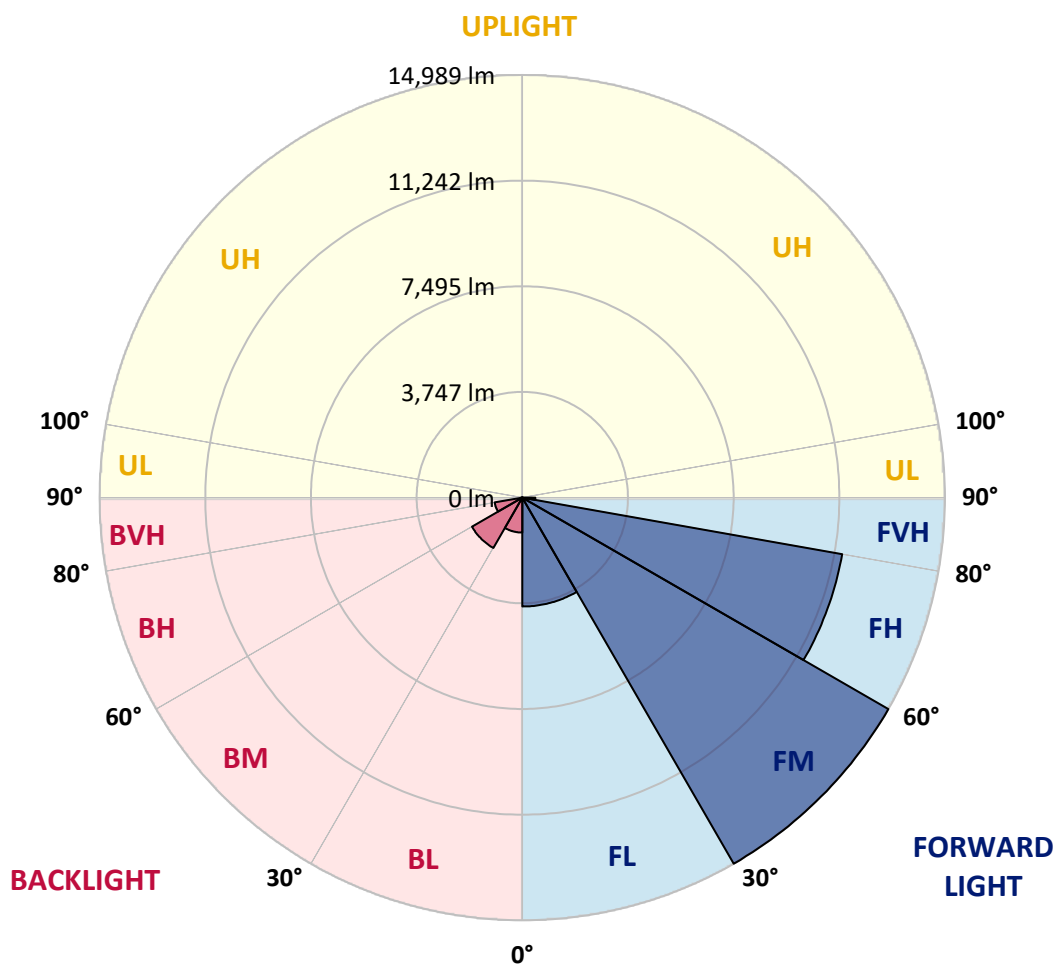
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3859.5	11.0			
FM	(30°-60°)	14989.3	42.6			
FH	(60°-80°)	11518.2	32.8			G4/12000
FVH	(80°-90°)	462.6	1.3			G3/500
BL	(0°-30°)	1239.4	3.5	B3/2500		
BM	(30°-60°)	2060.2	5.9	B2/2500		
BH	(60°-80°)	994.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	43.2	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2
2.5°	12778.0	12721.9	12593.6	12203.3	11863.8	11420.0	10970.9	10618.1	10401.5	10003.2	9821.4
5°	12379.7	12406.5	12034.9	11232.9	10340.0	9730.6	9064.9	8535.6	7952.9	7583.9	7196.3
7.5°	11339.8	11286.4	10882.7	9765.3	8680.0	7797.8	6955.7	6271.4	5841.0	5496.2	5207.4
10°	10449.6	10409.6	9893.6	8455.4	7289.9	6629.6	6060.2	5461.4	4998.9	4493.7	4090.0
12.5°	9890.9	9800.1	9206.6	7704.2	6755.2	6140.4	5520.2	4897.4	4258.5	3747.9	3258.7
15°	9703.8	9572.8	8912.5	7444.9	6413.1	5632.5	4854.6	4138.2	3403.0	2839.0	2470.1
17.5°	10043.3	9826.8	9123.7	7399.5	6004.1	4969.5	4012.5	3079.6	2315.0	1884.6	1657.4
20°	10821.2	10572.6	9658.4	7354.1	5549.6	4226.4	3050.2	2176.0	1601.3	1366.0	1240.4
22.5°	11976.1	11633.9	10449.6	7426.2	5129.9	3501.9	2202.7	1537.1	1272.5	1125.4	1037.2
25°	13363.5	13077.4	11452.1	7682.9	4798.4	2932.5	1702.8	1256.4	1072.0	981.1	914.2
27.5°	14884.5	14427.4	12748.6	7990.3	4496.4	2491.4	1494.3	1122.8	954.3	871.5	836.7
30°	15967.2	15611.7	13834.0	8204.1	4119.4	2160.0	1366.0	1106.7	957.0	858.1	793.9
32.5°	17036.5	16582.0	14742.9	8303.0	3844.1	1930.1	1181.6	965.0	839.4	788.6	724.4
35°	18180.6	17704.8	15649.1	8249.6	3638.3	1777.7	1072.0	860.8	719.1	633.6	569.4
37.5°	19338.1	18835.6	16550.0	8057.1	3509.9	1716.2	986.4	818.0	679.0	590.8	521.3
40°	20712.2	20041.2	17394.7	7899.4	3376.3	1684.1	930.3	791.3	649.6	556.0	486.5
42.5°	21834.9	21196.0	18194.0	7816.5	3285.4	1609.3	930.3	769.9	630.9	526.6	454.4
45°	22898.9	22235.9	19057.4	7883.3	3248.0	1515.7	941.0	767.2	617.5	505.2	433.1
47.5°	23789.1	23214.3	19945.0	8134.6	3199.9	1414.1	884.8	804.6	609.5	486.5	411.7
50°	24839.6	24283.6	21118.5	8642.5	3114.3	1312.6	815.3	866.1	606.8	470.5	393.0
52.5°	26320.6	25719.1	22738.5	9220.0	2978.0	1157.5	751.2	858.1	596.1	443.8	374.3
55°	28130.4	27643.9	24615.1	9912.3	2790.9	983.7	649.6	761.9	564.1	398.3	342.2
57.5°	29290.6	28876.2	26021.2	10211.7	2504.8	804.6	572.1	638.9	515.9	355.5	304.7
59°	29426.9	29052.6	26315.3	10112.8	2317.7	735.1	534.6	548.0	502.6	331.5	283.4
60°	29311.9	28924.3	26197.6	9920.3	2143.9	687.0	502.6	486.5	505.2	318.1	267.3
62.5°	28574.1	27911.2	25056.2	8944.6	1873.9	630.9	446.4	398.3	446.4	286.0	237.9
65°	27149.3	26154.9	22797.3	7570.6	1767.0	598.8	379.6	334.2	339.5	251.3	205.8
67.5°	24660.5	23406.8	19789.9	6151.1	1721.6	601.5	320.8	299.4	262.0	213.9	181.8
70°	20725.5	19474.5	15879.0	5060.4	1700.2	601.5	272.7	256.6	219.2	179.1	157.7
72.5°	14686.7	13339.4	10711.6	3975.1	1531.8	598.8	232.6	232.6	179.1	149.7	128.3
75°	8297.7	8308.4	6733.9	2812.2	1272.5	494.5	187.1	184.5	131.0	114.9	96.2
77.5°	4835.9	4750.3	4539.1	1208.3	590.8	224.6	131.0	112.3	90.9	82.9	69.5
80°	2486.1	2045.0	1991.6	438.4	211.2	141.7	90.9	64.2	58.8	53.5	48.1
82.5°	735.1	737.8	657.6	176.4	117.6	93.6	45.4	34.8	32.1	29.4	29.4
85°	50.8	32.1	37.4	53.5	72.2	37.4	2.7	8.0	8.0	10.7	13.4
87.5°	5.3	2.7	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°	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2
2.5°	9620.9	9738.6	9519.4	9524.7	9342.9	9401.7	9187.9	9257.4	9131.7	9228.0	9511.3
5°	7239.1	7265.8	7089.4	7033.3	7060.0	7169.6	7212.4	7017.2	7100.1	6937.0	6926.3
7.5°	5100.5	5132.6	5031.0	5017.6	5210.1	5164.7	5247.5	5047.1	4857.3	4940.1	4787.8
10°	3961.7	3828.1	3619.6	3560.7	3523.3	3547.4	3547.4	3365.6	3338.9	3266.7	3376.3
12.5°	3127.7	2964.6	2766.8	2499.5	2432.6	2427.3	2328.4	2168.0	2117.2	2055.7	2146.6
15°	2272.2	2205.4	2039.7	1890.0	1737.6	1708.2	1547.8	1416.8	1243.1	1219.0	1211.0
17.5°	1598.6	1499.7	1497.0	1411.5	1323.2	1264.4	1114.7	965.0	898.2	890.2	890.2
20°	1197.6	1162.9	1106.7	1096.0	1069.3	1002.5	868.8	788.6	756.5	759.2	769.9
22.5°	1007.8	983.7	933.0	908.9	898.2	839.4	740.5	687.0	671.0	671.0	673.7
25°	900.9	879.5	823.4	785.9	772.6	729.8	652.3	612.2	598.8	598.8	598.8
27.5°	820.7	793.9	735.1	703.1	679.0	630.9	582.8	542.7	529.3	529.3	532.0
30°	764.5	735.1	681.7	638.9	601.5	558.7	518.6	483.9	467.8	465.1	467.8
32.5°	689.7	663.0	609.5	582.8	540.0	489.2	457.1	425.0	409.0	411.7	409.0
35°	537.3	529.3	491.9	499.9	475.8	433.1	403.7	368.9	350.2	347.5	352.9
37.5°	489.2	457.1	414.4	417.0	409.0	393.0	344.8	307.4	294.1	294.1	296.7
40°	451.8	419.7	371.6	347.5	350.2	350.2	299.4	259.3	245.9	243.3	248.6
42.5°	419.7	387.6	334.2	294.1	283.4	296.7	254.0	213.9	200.5	195.1	200.5
45°	398.3	363.6	302.1	256.6	224.6	240.6	208.5	176.4	160.4	160.4	157.7
47.5°	376.9	344.8	278.0	221.9	187.1	179.1	171.1	141.7	125.6	123.0	125.6
50°	358.2	326.1	251.3	192.5	157.7	139.0	139.0	112.3	101.6	96.2	98.9
52.5°	339.5	304.7	227.2	171.1	136.3	112.3	98.9	90.9	82.9	80.2	82.9
55°	312.8	278.0	203.2	147.0	117.6	93.6	77.5	74.9	69.5	64.2	69.5
57.5°	280.7	248.6	179.1	125.6	93.6	72.2	64.2	61.5	56.1	53.5	53.5
59°	262.0	232.6	165.7	109.6	82.9	64.2	58.8	56.1	50.8	45.4	48.1
60°	251.3	227.2	157.7	101.6	74.9	58.8	53.5	50.8	45.4	42.8	45.4
62.5°	221.9	203.2	139.0	82.9	58.8	42.8	37.4	40.1	37.4	34.8	37.4
65°	195.1	179.1	117.6	64.2	45.4	29.4	26.7	34.8	32.1	29.4	32.1
67.5°	173.8	155.0	98.9	48.1	32.1	16.0	18.7	29.4	29.4	26.7	29.4
70°	149.7	133.7	80.2	34.8	16.0	8.0	13.4	21.4	26.7	24.1	26.7
72.5°	123.0	104.3	61.5	24.1	8.0	0.0	8.0	18.7	26.7	24.1	26.7
75°	96.2	77.5	45.4	13.4	0.0	0.0	2.7	16.0	26.7	24.1	26.7
77.5°	69.5	56.1	26.7	2.7	0.0	0.0	2.7	16.0	26.7	24.1	26.7
80°	45.4	40.1	10.7	0.0	0.0	0.0	2.7	16.0	26.7	26.7	29.4
82.5°	29.4	21.4	0.0	0.0	0.0	0.0	5.3	21.4	29.4	32.1	32.1
85°	13.4	0.0	0.0	0.0	0.0	0.0	10.7	26.7	34.8	34.8	34.8
87.5°	0.0	0.0	0.0	0.0	0.0	5.3	18.7	32.1	40.1	40.1	40.1
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°	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2
2.5°	9559.5	9727.9	9965.8	10332.0	10628.8	11096.6	11454.8	11944.0	12438.5	12588.2	12820.8
5°	7035.9	7252.5	7792.5	8284.3	8594.4	9583.5	10209.1	11195.5	12080.3	12505.4	12967.8
7.5°	4886.7	5143.3	5555.0	6242.0	6894.3	7698.9	8709.4	9837.5	11134.0	11740.8	12393.1
10°	3429.8	3750.5	4330.6	4894.7	5715.4	6479.9	7477.0	8722.7	10152.9	10869.3	11687.4
12.5°	2165.3	2451.4	3218.6	3852.1	4876.0	5763.5	6683.1	7811.2	9468.6	10203.7	11061.8
15°	1237.7	1478.3	1836.5	2649.2	3785.3	4958.8	6105.7	7415.5	9118.4	10024.6	10952.2
17.5°	922.3	986.4	1146.8	1606.6	2641.1	4012.5	5573.7	7295.2	9356.3	10420.2	11478.8
20°	775.2	818.0	892.9	1074.6	1684.1	3090.3	5055.1	7316.6	10126.2	11462.8	12467.9
22.5°	695.0	721.8	783.3	900.9	1149.5	2250.9	4448.3	7442.3	11059.1	12743.3	13903.5
25°	609.5	644.2	697.7	799.3	957.0	1561.2	3849.4	7723.0	12366.4	14368.6	15459.3
27.5°	542.7	574.7	628.2	721.8	839.4	1192.3	3151.7	7963.5	13745.7	16004.6	16897.5
30°	475.8	507.9	561.4	636.2	743.2	965.0	2400.6	8105.2	15085.0	17231.6	17918.6
32.5°	419.7	446.4	497.2	564.1	652.3	818.0	1892.6	7958.2	16108.9	18346.4	18806.2
35°	363.6	395.6	438.4	499.9	577.4	697.7	1574.5	7450.3	16988.4	19493.2	19658.9
37.5°	304.7	342.2	387.6	443.8	505.2	641.6	1264.4	6888.9	17929.3	20923.4	20650.7
40°	256.6	291.4	334.2	395.6	451.8	588.1	973.1	6290.1	18945.2	22265.3	21733.3
42.5°	208.5	245.9	296.7	352.9	446.4	513.3	753.9	5669.9	19856.7	23433.5	22711.7
45°	165.7	197.8	251.3	323.5	443.8	441.1	582.8	5057.7	20543.8	24267.6	23441.5
47.5°	131.0	157.7	211.2	315.4	409.0	374.3	467.8	4678.1	21265.5	25018.7	24000.2
50°	104.3	131.0	181.8	328.8	358.2	320.8	393.0	4739.6	21963.2	25401.0	24230.1
52.5°	88.2	114.9	157.7	259.3	275.3	280.7	344.8	5023.0	22864.1	25810.0	24687.3
55°	77.5	101.6	133.7	181.8	213.9	251.3	315.4	5228.8	24069.7	26686.8	25695.1
57.5°	61.5	88.2	120.3	155.0	176.4	219.2	291.4	5244.9	25160.4	27812.3	27034.4
59°	56.1	80.2	112.3	147.0	157.7	197.8	275.3	5108.5	25200.5	27980.7	27649.2
60°	50.8	77.5	106.9	136.3	149.7	187.1	262.0	4950.8	24837.0	27713.4	27903.2
62.5°	42.8	66.8	93.6	109.6	128.3	155.0	227.2	4378.7	23075.3	26502.4	27432.7
65°	37.4	58.8	80.2	90.9	106.9	133.7	200.5	3504.6	21129.2	24861.0	26085.4
67.5°	34.8	53.5	69.5	77.5	93.6	123.0	179.1	2475.4	18608.3	22778.6	24061.7
70°	32.1	50.8	61.5	72.2	82.9	104.3	152.4	1443.5	14333.8	19126.9	20482.3
72.5°	32.1	48.1	53.5	61.5	72.2	93.6	141.7	780.6	9800.1	14590.5	16341.4
75°	32.1	45.4	48.1	53.5	64.2	85.5	125.6	409.0	6335.6	10136.9	12510.7
77.5°	32.1	42.8	48.1	50.8	61.5	74.9	109.6	256.6	4221.0	7100.1	8455.4
80°	34.8	42.8	45.4	50.8	58.8	69.5	90.9	171.1	2480.8	4271.8	5146.0
82.5°	37.4	42.8	48.1	53.5	61.5	66.8	80.2	106.9	1144.1	2825.6	3197.2
85°	40.1	45.4	50.8	56.1	64.2	66.8	74.9	77.5	187.1	1275.1	1724.2
87.5°	42.8	48.1	53.5	58.8	69.5	69.5	69.5	69.5	64.2	136.3	347.5
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: P456294

CATALOG NUMBER: GALN-SA7C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2	11623.2
2.5°	13114.9	13416.9	13628.1	13681.6	13529.2	13459.7	13267.2	12967.8	12786.1	12778.0
5°	13820.6	14529.0	15020.9	15103.7	14809.7	14312.5	13721.7	12959.8	12513.4	12379.7
7.5°	13700.3	14940.7	15731.9	15846.9	15352.3	14403.4	13259.2	12032.2	11545.7	11339.8
10°	13205.7	14718.8	15849.6	16031.3	15371.1	14034.4	12580.2	11211.5	10607.4	10449.6
12.5°	12783.4	14312.5	15317.6	15568.9	15069.0	13735.0	12173.9	10684.9	10038.0	9890.9
15°	12598.9	13831.3	14446.1	14574.4	14491.6	13547.9	12131.1	10604.7	9864.2	9703.8
17.5°	12783.4	13422.3	13499.8	13630.8	13815.2	13529.2	12542.8	11040.4	10241.1	10043.3
20°	13267.2	13066.7	12746.0	12802.1	13224.5	13606.7	13275.3	12005.5	11032.4	10821.2
22.5°	14090.6	12978.5	12251.4	12203.3	12737.9	13866.0	14349.9	13312.7	12184.6	11976.1
25°	15101.1	13200.4	12069.6	11965.4	12548.1	14245.6	15518.1	14913.9	13681.6	13363.5
27.5°	16202.4	13660.2	12069.6	11968.0	12532.1	14582.5	16517.9	16330.8	15232.1	14884.5
30°	16806.6	14039.8	12243.4	12128.4	12729.9	14777.6	17052.5	17589.8	16397.6	15967.2
32.5°	17346.6	14566.4	12582.9	12366.4	13144.3	15066.3	17531.0	18659.1	17325.2	17036.5
35°	17843.8	15130.5	13050.7	12799.4	13689.6	15462.0	18060.3	19781.9	18616.4	18180.6
37.5°	18391.8	15785.4	13780.5	13566.6	14601.2	16231.8	18688.5	21257.5	19886.1	19338.1
40°	18987.9	16544.6	14980.8	14889.9	16050.1	17103.3	19482.5	22832.0	21335.0	20712.2
42.5°	19594.8	17418.8	16451.0	16600.7	17691.4	18325.0	20297.8	24043.0	22521.9	21834.9
45°	20145.4	18536.2	18362.4	19102.9	19605.5	19517.2	20902.0	24895.8	23556.5	22898.9
47.5°	20840.5	20164.2	20674.7	21816.2	21829.6	20813.8	21359.1	25593.5	24446.7	23789.1
50°	21618.4	22086.2	23660.7	24823.6	24510.8	22088.9	21893.7	26419.5	25366.3	24839.6
52.5°	22519.3	24238.2	26419.5	27710.7	26980.9	23479.0	22783.9	27312.4	26825.8	26320.6
55°	23567.2	25705.8	29170.3	30199.5	29464.3	25205.9	24136.6	28523.3	28475.2	28130.4
57.5°	24751.4	27256.2	30763.5	32156.3	31501.3	27232.2	26026.5	29664.8	29483.0	29290.6
59°	25687.0	28052.9	31466.6	32910.1	32514.5	28651.7	27296.3	30375.9	29715.6	29426.9
60°	26253.8	28592.8	31725.9	33011.7	32920.8	29496.4	28101.0	30723.4	29712.9	29311.9
62.5°	27935.2	29536.5	31627.0	32559.9	32915.5	31116.4	30461.4	31105.7	29162.2	28574.1
65°	28534.0	29223.7	29988.3	29873.3	30178.1	31033.5	31969.1	30686.0	27986.0	27149.3
67.5°	27368.5	25794.0	26064.0	25296.8	25147.1	27590.4	31357.0	28632.9	25684.4	24660.5
70°	23070.0	19760.5	19624.2	19977.0	19009.3	22337.5	28157.1	24679.2	21885.7	20725.5
72.5°	18159.2	13964.9	12815.5	14114.6	14085.2	17041.8	23390.7	17512.3	14785.6	14686.7
75°	14280.4	9722.5	8532.9	8744.1	9150.5	12336.9	18629.7	11120.6	9105.0	8297.7
77.5°	9586.2	6888.9	6426.4	6167.1	6605.5	7920.8	11786.3	6030.8	5105.9	4835.9
80°	5525.6	5004.3	5683.3	5159.3	5394.6	4990.9	5862.4	2766.8	2296.3	2486.1
82.5°	3595.5	2849.7	3036.8	2256.2	3084.9	3111.6	1882.0	818.0	692.4	735.1
85°	2248.2	1336.6	751.2	534.6	1063.9	1956.8	588.1	50.8	58.8	50.8
87.5°	582.8	221.9	93.6	139.0	171.1	152.4	136.3	8.0	2.7	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)