

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: P532215

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532215
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-SA7C-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 27071 lumens
Efficiency: N/A
Efficacy: 71.8 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

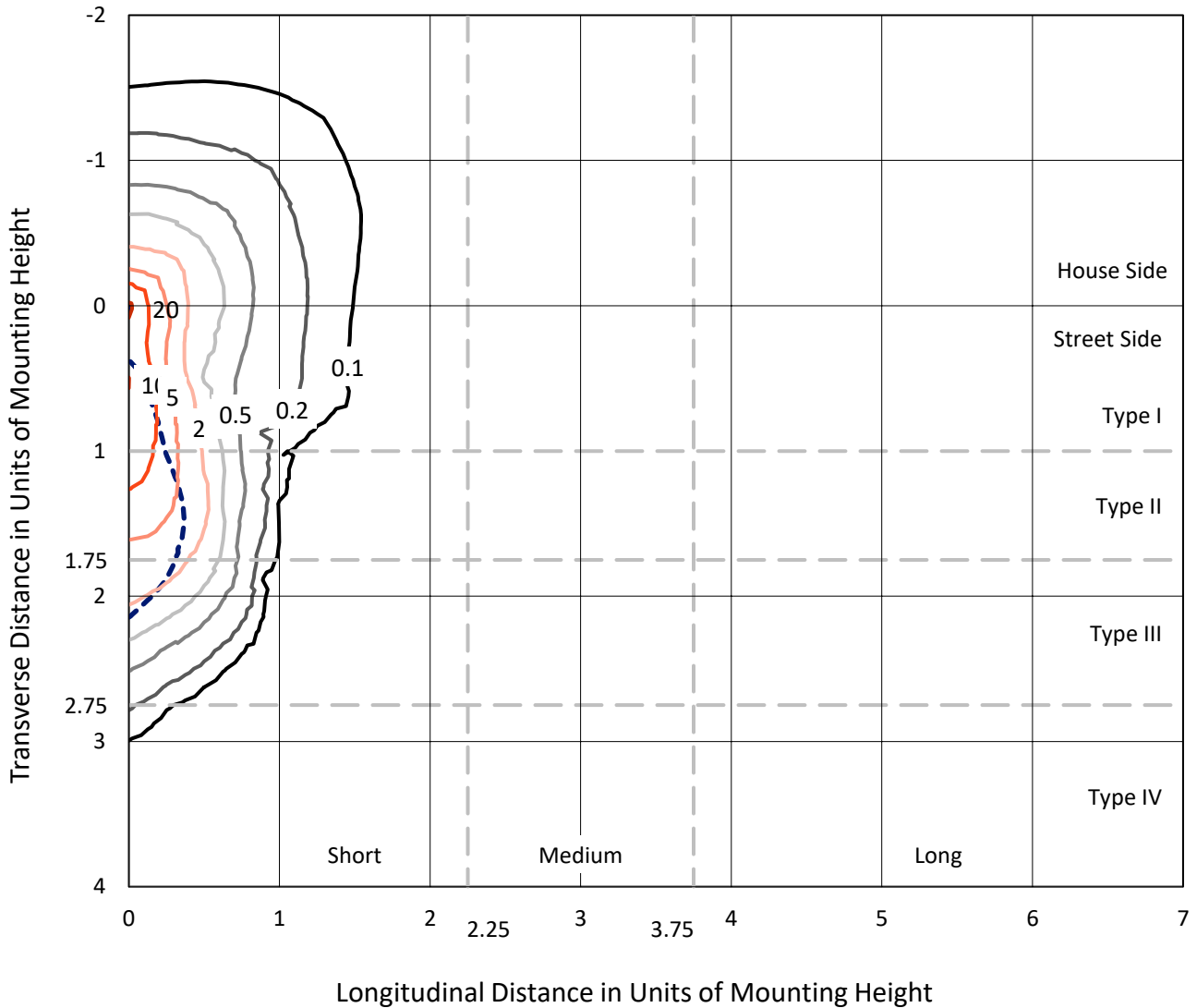
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

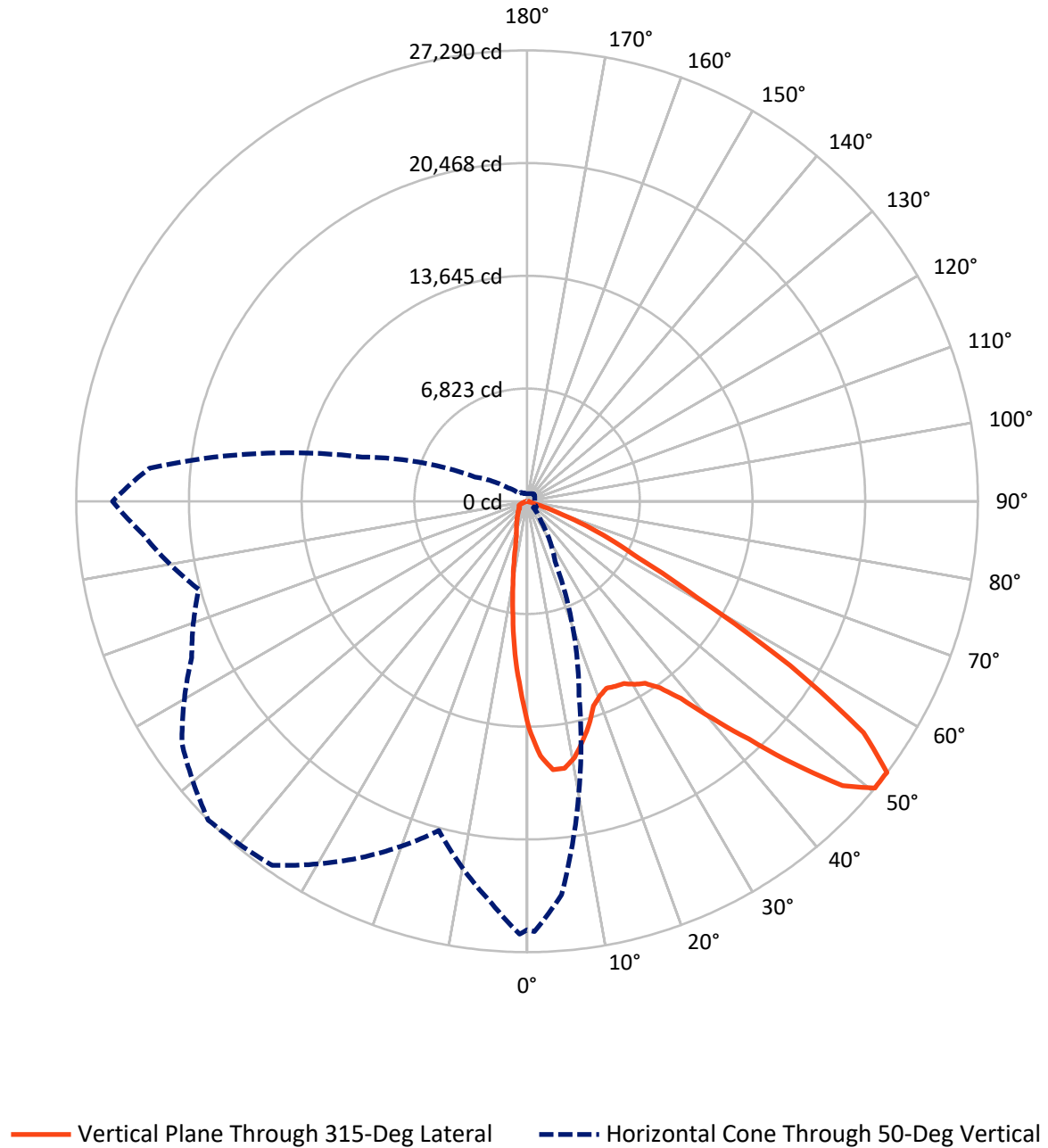
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5422.3	0.0	5422.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	21648.7	0.0	21648.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	27071.0	0.0	27071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.6	3.7
10°-20°	1988.8	7.3
20°-30°	2987.7	11.0
30°-40°	4484.5	16.6
40°-50°	6302.6	23.3
50°-60°	6798.5	25.1
60°-70°	3156.5	11.7
70°-80°	297.0	1.1
80°-90°	54.7	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°	27071.0	100.0
0°-180°	27071.0	100.0

Coefficient of Utilization



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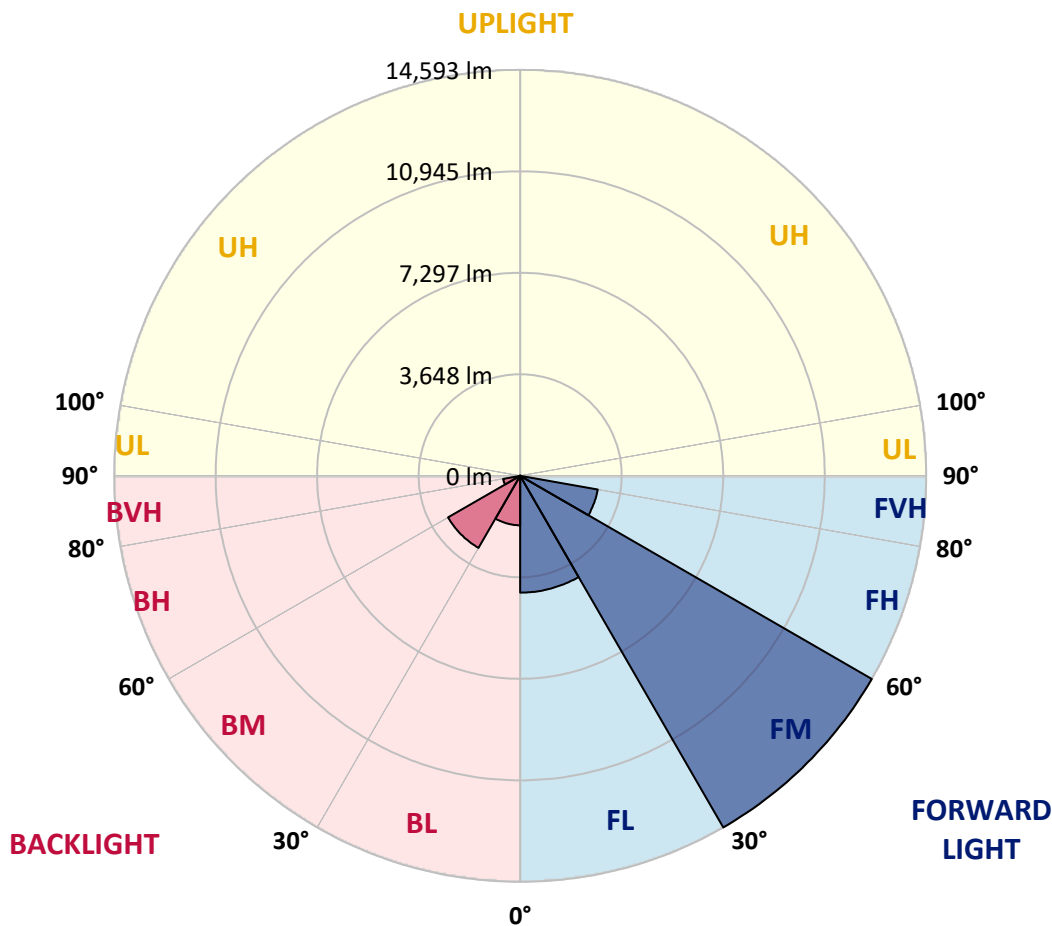
CATALOG NUMBER: GALN-SA7C-740-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4199.8	15.5			
FM (30°-60°)	14593.3	53.9			
FH (60°-80°)	2830.9	10.5			G2/5000
FVH (80°-90°)	24.7	0.1			G1/100
BL (0°-30°)	1777.3	6.6	B3/2500		
BM (30°-60°)	2992.3	11.1	B3/5000		
BH (60°-80°)	622.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	30.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4
2.5°	14270.9	14050.7	13771.4	13540.4	13196.7	12503.8	12315.8	12090.2	11902.3	11649.8	11295.3
5°	12976.5	12906.6	12777.7	11907.6	11279.2	10441.3	9753.8	9463.8	9082.4	8770.9	8545.3
7.5°	11988.2	11708.9	11300.7	10425.2	9420.8	8523.9	7761.2	7315.4	6810.5	6638.6	6332.5
10°	10930.1	10994.5	10393.0	9163.0	7949.2	7224.1	6751.4	6321.7	5865.2	5564.4	5129.4
12.5°	10591.7	10382.2	9920.3	8400.3	7363.7	6687.0	6112.3	5580.5	5097.1	4613.7	4194.8
15°	10811.9	10489.7	9845.1	8239.2	6912.5	6069.3	5349.6	4629.8	4184.0	3566.4	3131.3
17.5°	11601.5	11343.7	10478.9	8411.1	6681.6	5478.5	4409.6	3668.4	2986.3	2427.7	2207.5
20°	12917.4	12552.1	11467.2	8631.3	6337.8	4764.1	3577.1	2664.0	2019.5	1783.2	1659.7
22.5°	14206.4	14007.7	12638.1	9055.6	6031.7	4130.3	2685.5	1793.9	1509.3	1466.3	1385.7
25°	16661.0	16064.8	14426.6	9823.7	5795.4	3534.2	2024.9	1444.8	1278.3	1246.1	1256.8
27.5°	18121.9	17622.4	16080.9	10333.9	5532.2	3077.6	1713.4	1326.6	1213.9	1144.0	1117.2
30°	19523.8	18943.7	16902.7	10634.7	4968.2	2594.2	1520.0	1272.9	1246.1	1144.0	1111.8
32.5°	20603.4	20034.0	18089.7	11085.9	4737.3	2282.7	1251.5	993.6	923.8	913.1	1009.8
35°	22257.6	21650.7	19104.8	11332.9	4560.0	2121.6	1085.0	886.2	805.7	773.4	778.8
37.5°	23799.1	23385.6	20044.8	11429.6	4372.0	2073.2	972.2	794.9	725.1	703.6	698.2
40°	25088.2	24164.4	20936.4	11531.6	4291.5	1981.9	902.3	725.1	676.8	644.5	644.5
42.5°	25679.0	24739.1	21935.4	11472.6	4270.0	1836.9	902.3	666.0	628.4	596.2	590.8
45°	25550.1	25168.8	22381.2	11445.7	4270.0	1691.9	821.8	649.9	596.2	553.2	542.5
47.5°	25883.1	25383.6	22939.8	11558.5	4184.0	1589.8	692.9	682.1	564.0	510.2	499.5
50°	25942.2	26038.9	23911.9	12143.9	3996.1	1460.9	542.5	671.4	542.5	461.9	451.2
52°	26328.9	25727.3	24207.3	12455.5	3797.3	1364.2	456.5	574.7	521.0	429.7	418.9
52.5°	25797.2	26189.3	24277.2	12568.3	3818.8	1299.8	440.4	564.0	510.2	429.7	402.8
55°	25201.0	25577.0	23992.5	12810.0	3501.9	1020.5	343.7	408.2	461.9	376.0	359.9
57.5°	21903.2	22284.5	20850.4	11730.4	2852.0	719.7	284.7	306.1	408.2	349.1	333.0
60°	19470.1	19196.1	17498.9	9786.1	2024.9	402.8	225.6	236.3	445.8	322.3	316.9
62.5°	17794.3	17208.9	14625.4	7557.1	1235.3	268.6	177.2	182.6	343.7	300.8	300.8
65°	13164.4	12509.2	9716.2	4570.8	606.9	188.0	134.3	145.0	214.8	257.8	257.8
67.5°	7514.1	7261.7	4694.3	2062.5	252.4	118.2	102.0	112.8	166.5	209.5	198.7
70°	3453.6	3099.1	1804.7	435.1	118.2	80.6	80.6	91.3	134.3	155.8	145.0
72.5°	1009.8	956.0	440.4	69.8	48.3	48.3	53.7	69.8	102.0	118.2	107.4
75°	75.2	48.3	32.2	21.5	21.5	32.2	43.0	69.8	102.0	112.8	91.3
77.5°	5.4	10.7	5.4	5.4	16.1	32.2	48.3	85.9	134.3	139.6	102.0
80°	5.4	5.4	0.0	5.4	16.1	32.2	53.7	96.7	150.4	161.1	85.9
82.5°	0.0	0.0	0.0	5.4	21.5	43.0	64.5	102.0	139.6	171.9	91.3
85°	0.0	0.0	0.0	5.4	32.2	59.1	75.2	26.9	16.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4
2.5°	11547.8	11408.1	11354.4	11402.7	11386.6	11370.5	11665.9	11601.5	11590.7	11687.4	11665.9
5°	8668.9	8421.8	9098.6	8824.6	9109.3	9281.2	9313.4	9329.5	9528.2	9318.8	9592.7
7.5°	6176.7	6241.2	6235.8	6418.4	6746.0	7036.1	7208.0	7073.7	7062.9	7036.1	6917.9
10°	4936.0	4823.2	4801.7	4758.8	4860.8	5107.9	5317.3	5150.8	5032.7	5193.8	5145.5
12.5°	4033.7	3877.9	3792.0	3620.1	3625.5	3792.0	3792.0	3792.0	3910.1	4001.4	4071.3
15°	3093.7	2964.8	2964.8	2792.9	2755.3	2760.7	2846.7	2857.4	3045.4	3099.1	3126.0
17.5°	2164.5	2094.7	2175.3	2245.1	2202.1	2212.9	2245.1	2255.8	2282.7	2261.2	2314.9
20°	1665.0	1654.3	1675.8	1799.3	1890.6	1944.3	1906.7	1853.0	1820.8	1745.6	1745.6
22.5°	1412.6	1434.1	1471.7	1573.7	1691.9	1724.1	1681.1	1557.6	1460.9	1450.2	1455.6
25°	1256.8	1278.3	1337.4	1401.8	1466.3	1520.0	1477.0	1385.7	1332.0	1283.7	1283.7
27.5°	1160.1	1170.9	1203.1	1251.5	1305.2	1348.1	1332.0	1283.7	1224.6	1203.1	1154.8
30°	1085.0	1101.1	1138.7	1149.4	1197.7	1219.2	1192.4	1181.6	1144.0	1117.2	1101.1
32.5°	1047.4	1042.0	1068.8	1079.6	1085.0	1101.1	1068.8	1085.0	1079.6	1036.6	1020.5
35°	789.5	832.5	902.3	961.4	977.5	999.0	993.6	972.2	913.1	864.7	805.7
37.5°	709.0	735.8	773.4	821.8	886.2	913.1	902.3	848.6	778.8	746.6	735.8
40°	655.3	671.4	703.6	735.8	800.3	848.6	811.0	762.7	709.0	682.1	666.0
42.5°	606.9	612.3	628.4	660.6	709.0	784.2	719.7	655.3	633.8	617.7	606.9
45°	553.2	553.2	574.7	590.8	644.5	714.3	649.9	590.8	580.1	569.3	564.0
47.5°	510.2	515.6	526.4	547.8	590.8	639.2	596.2	547.8	521.0	515.6	504.9
50°	456.5	461.9	483.4	504.9	558.6	585.4	558.6	504.9	478.0	461.9	461.9
52°	413.6	429.7	451.2	494.1	531.7	574.7	542.5	483.4	451.2	435.1	424.3
52.5°	408.2	418.9	440.4	488.8	531.7	569.3	537.1	478.0	440.4	429.7	418.9
55°	365.2	381.3	418.9	478.0	526.4	569.3	526.4	472.7	418.9	392.1	381.3
57.5°	349.1	359.9	408.2	483.4	521.0	569.3	526.4	472.7	418.9	370.6	359.9
60°	333.0	354.5	408.2	467.3	515.6	574.7	531.7	467.3	408.2	349.1	349.1
62.5°	316.9	333.0	402.8	456.5	494.1	553.2	510.2	456.5	392.1	333.0	327.6
65°	273.9	300.8	354.5	381.3	424.3	478.0	435.1	397.5	343.7	295.4	290.0
67.5°	209.5	220.2	263.2	295.4	322.3	370.6	349.1	300.8	263.2	225.6	225.6
70°	145.0	155.8	188.0	204.1	231.0	257.8	241.7	204.1	177.2	155.8	150.4
72.5°	102.0	107.4	118.2	128.9	139.6	150.4	145.0	118.2	102.0	96.7	91.3
75°	80.6	91.3	96.7	91.3	85.9	80.6	80.6	69.8	59.1	53.7	53.7
77.5°	80.6	85.9	80.6	69.8	59.1	53.7	48.3	43.0	32.2	26.9	32.2
80°	69.8	69.8	69.8	59.1	53.7	48.3	43.0	37.6	32.2	26.9	26.9
82.5°	75.2	75.2	69.8	59.1	59.1	48.3	48.3	43.0	37.6	26.9	26.9
85°	0.0	0.0	0.0	10.7	26.9	48.3	48.3	43.0	37.6	32.2	32.2
87.5°	0.0	0.0	0.0	0.0	5.4	10.7	21.5	26.9	32.2	32.2	32.2
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°	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4
2.5°	11859.3	12063.4	12450.1	12836.8	13073.1	13352.4	13857.3	14125.9	14475.0	14646.9	14985.2
5°	9555.1	10038.5	10210.4	10650.8	11123.4	11596.1	12348.0	13175.2	13862.7	14335.3	14947.6
7.5°	6971.6	7084.4	7750.4	8045.8	8819.3	9678.6	10704.5	11746.5	12616.6	13390.0	13857.3
10°	5226.0	5639.6	6058.5	6622.5	7245.5	8131.8	9114.7	10264.1	11392.0	12165.4	12756.2
12.5°	4200.2	4527.8	5086.4	5693.3	6461.4	7046.8	8035.1	9173.8	10634.7	11392.0	12170.8
15°	3179.7	3598.6	4232.4	4860.8	5671.8	6289.5	7288.5	8722.6	10602.5	11644.4	12315.8
17.5°	2357.9	2642.6	3211.9	3915.5	4742.6	5612.7	6960.9	8674.2	10962.3	12203.0	12895.9
20°	1804.7	1901.4	2261.2	2889.6	3786.6	4925.3	6429.1	8883.7	12025.8	13561.9	14265.5
22.5°	1460.9	1503.9	1643.5	2078.6	2948.7	4323.7	6176.7	9028.7	13223.5	15189.3	16129.3
25°	1272.9	1262.2	1353.5	1541.5	2304.2	3759.7	5854.4	9576.6	14689.8	17101.4	17944.7
27.5°	1160.1	1160.1	1203.1	1337.4	1912.1	3394.5	5650.3	9968.7	16166.9	18782.6	19239.1
30°	1101.1	1111.8	1235.3	1278.3	1589.8	2959.4	5312.0	10366.1	17579.5	19856.8	20485.2
32.5°	1020.5	977.5	950.7	1058.1	1337.4	2567.4	4973.6	10532.6	18723.5	21172.7	21709.8
35°	784.2	762.7	794.9	875.5	1149.4	2234.4	4597.6	10720.6	20039.4	22698.1	22805.5
37.5°	709.0	703.6	725.1	794.9	966.8	1944.3	4329.1	10672.3	21043.8	23960.3	23670.2
40°	655.3	655.3	671.4	730.5	864.7	1740.2	4049.8	10629.3	22015.9	25378.2	24529.6
42.5°	612.3	612.3	639.2	676.8	821.8	1605.9	3840.3	10570.2	22832.3	26248.3	25034.5
45°	553.2	569.3	612.3	649.9	832.5	1514.6	3684.5	10344.6	23111.6	26237.6	24792.8
47.5°	510.2	531.7	574.7	628.4	751.9	1487.8	3577.1	10145.9	23015.0	25593.1	24035.5
50°	461.9	488.8	547.8	639.2	639.2	1434.1	3464.3	10323.2	22945.1	25093.6	23310.4
52°	429.7	451.2	526.4	623.0	558.6	1321.3	3394.5	10666.9	23229.8	25029.1	22988.1
52.5°	424.3	440.4	510.2	612.3	531.7	1299.8	3346.2	10747.5	23321.1	24868.0	23208.3
55°	376.0	397.5	467.3	478.0	435.1	1068.8	3190.4	10930.1	22869.9	24551.1	22998.8
57.5°	354.5	365.2	413.6	392.1	376.0	805.7	2744.6	10645.4	20313.3	21806.5	21398.3
60°	327.6	338.4	386.7	306.1	316.9	564.0	2062.5	9243.6	16311.9	18170.3	18906.1
62.5°	316.9	311.5	365.2	247.1	268.6	408.2	1455.6	7514.1	12568.3	14958.4	16231.3
65°	279.3	273.9	263.2	209.5	231.0	316.9	870.1	4903.8	8856.9	11316.8	12015.0
67.5°	214.8	225.6	193.4	166.5	193.4	247.1	483.4	2196.8	4646.0	6789.0	7353.0
70°	150.4	161.1	155.8	145.0	171.9	204.1	279.3	751.9	1922.8	3566.4	3931.6
72.5°	91.3	112.8	118.2	123.5	150.4	177.2	198.7	241.7	510.2	1262.2	1568.3
75°	53.7	75.2	91.3	107.4	123.5	150.4	166.5	171.9	177.2	236.3	381.3
77.5°	37.6	53.7	80.6	102.0	123.5	150.4	177.2	188.0	177.2	166.5	177.2
80°	32.2	53.7	75.2	96.7	128.9	155.8	177.2	177.2	171.9	150.4	161.1
82.5°	32.2	53.7	80.6	102.0	123.5	150.4	171.9	177.2	161.1	150.4	155.8
85°	37.6	59.1	85.9	107.4	134.3	123.5	112.8	91.3	85.9	69.8	75.2
87.5°	37.6	53.7	53.7	59.1	64.5	64.5	64.5	59.1	48.3	43.0	43.0
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: P532215

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4	13728.4
2.5°	15001.3	15431.0	15414.9	15425.7	15361.2	14926.2	14716.7	14184.9	14335.3	14270.9
5°	15576.1	16000.4	16365.6	16322.6	15828.5	15237.7	14362.2	13535.1	13309.5	12976.5
7.5°	15001.3	16021.8	16360.2	16311.9	15581.4	14824.1	13427.6	12600.5	12208.4	11988.2
10°	14088.3	15269.9	15688.8	15774.8	15280.6	14131.2	12847.6	11520.9	11311.4	10930.1
12.5°	13567.3	14426.6	14684.5	14915.4	14743.5	13884.2	12407.1	11134.2	10844.2	10591.7
15°	13143.0	13653.2	13760.6	14023.8	14125.9	13664.0	12638.1	11553.1	10838.8	10811.9
17.5°	13535.1	13325.6	12933.5	13014.1	13336.3	13669.3	13234.3	12380.3	11687.4	11601.5
20°	14184.9	13261.1	12374.9	12573.6	12842.2	13862.7	14136.6	13535.1	13137.6	12917.4
22.5°	14931.5	13373.9	12197.7	12294.3	12804.6	14297.7	15597.5	15264.5	14523.3	14206.4
25°	16311.9	13685.4	12337.3	12401.8	13100.0	14904.7	16918.8	17165.9	16725.5	16661.0
27.5°	17660.0	14491.1	12643.5	12498.4	13250.4	15495.5	17719.1	19045.8	18272.3	18121.9
30°	18347.5	15146.4	13100.0	12852.9	13873.4	15855.3	18202.5	20270.4	19593.6	19523.8
32.5°	19400.2	15742.6	13454.5	13137.6	14222.5	16301.1	19104.8	21607.7	20952.5	20603.4
35°	19840.7	16392.5	14233.3	13862.7	15221.6	16924.2	19566.7	22800.1	22596.0	22257.6
37.5°	20689.3	17090.7	15151.7	15130.3	16430.0	17735.2	20399.3	24422.2	24384.6	23799.1
40°	20759.1	17853.4	16601.9	17278.7	18299.2	19147.8	21129.7	24873.3	25485.6	25088.2
42.5°	20866.5	19190.8	19110.2	19668.8	20544.3	20361.7	21156.6	24980.8	25915.3	25679.0
45°	20914.9	20528.2	21661.5	22692.7	23057.9	21951.5	20904.1	24776.7	26140.9	25550.1
47.5°	20528.2	21677.6	23723.9	25716.6	25824.0	22929.0	20796.7	24567.2	26275.2	25883.1
50°	20581.9	22397.3	25507.1	27290.3	26898.2	23793.8	20630.2	24438.3	26205.4	25942.2
52°	20453.0	22413.4	25759.6	27258.1	26984.2	23315.7	20345.5	23944.2	26140.9	26328.9
52.5°	20598.0	22316.7	25496.4	27279.6	26925.1	23552.1	20307.9	24218.1	26178.5	25797.2
55°	20098.5	21167.3	23954.9	24712.2	24658.5	21376.8	19153.2	23310.4	25195.6	25201.0
57.5°	18164.9	18347.5	18787.9	18771.8	18524.8	16806.0	16381.7	21435.9	22461.7	21903.2
60°	16005.7	13433.0	12246.0	11762.6	11488.7	11209.4	14491.1	19609.7	19706.4	19470.1
62.5°	13830.5	9313.4	7734.3	7600.0	7664.5	8685.0	14007.7	18884.6	18304.5	17794.3
65°	11161.0	6789.0	5618.1	5440.9	6069.3	7170.4	11338.3	14480.4	13588.8	13164.4
67.5°	7009.2	4952.1	3797.3	3464.3	4221.6	4936.0	7449.6	9098.6	8099.5	7514.1
70°	4157.2	2766.1	1718.7	1541.5	1734.8	2631.8	4173.3	4538.5	3754.4	3453.6
72.5°	1638.2	1015.1	478.0	408.2	424.3	923.8	1536.1	1498.5	1133.3	1009.8
75°	440.4	306.1	166.5	134.3	112.8	171.9	247.1	161.1	59.1	75.2
77.5°	204.1	182.6	145.0	112.8	85.9	64.5	32.2	10.7	10.7	5.4
80°	177.2	155.8	134.3	112.8	85.9	53.7	26.9	5.4	5.4	5.4
82.5°	166.5	145.0	123.5	102.0	80.6	53.7	26.9	5.4	0.0	0.0
85°	69.8	91.3	102.0	96.7	85.9	53.7	26.9	5.4	0.0	0.0
87.5°	37.6	32.2	26.9	21.5	16.1	10.7	10.7	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)