

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: P530343

Luminaire Tested: **GALN-SA5C-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530343
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-SA5C-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19464 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

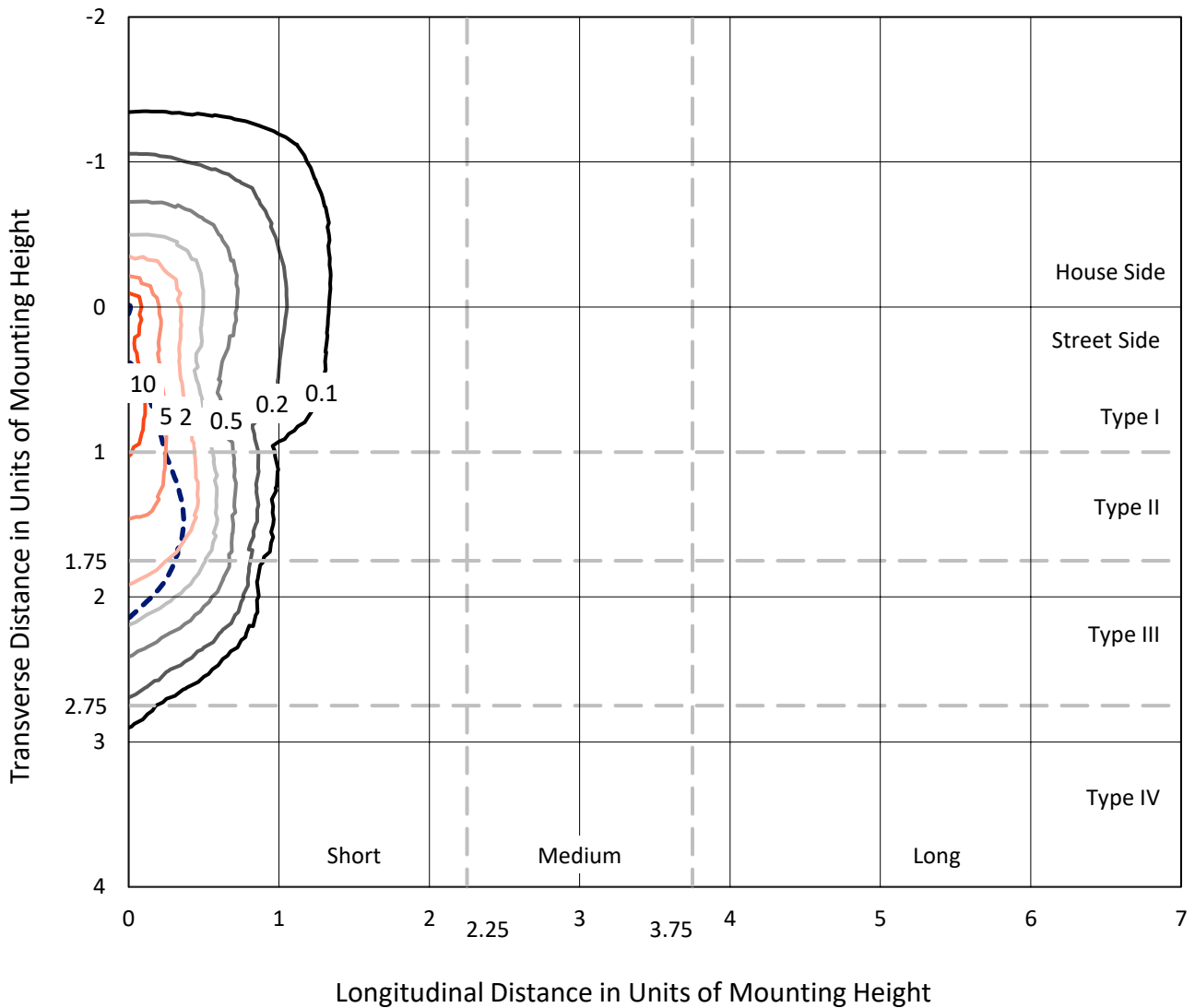
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

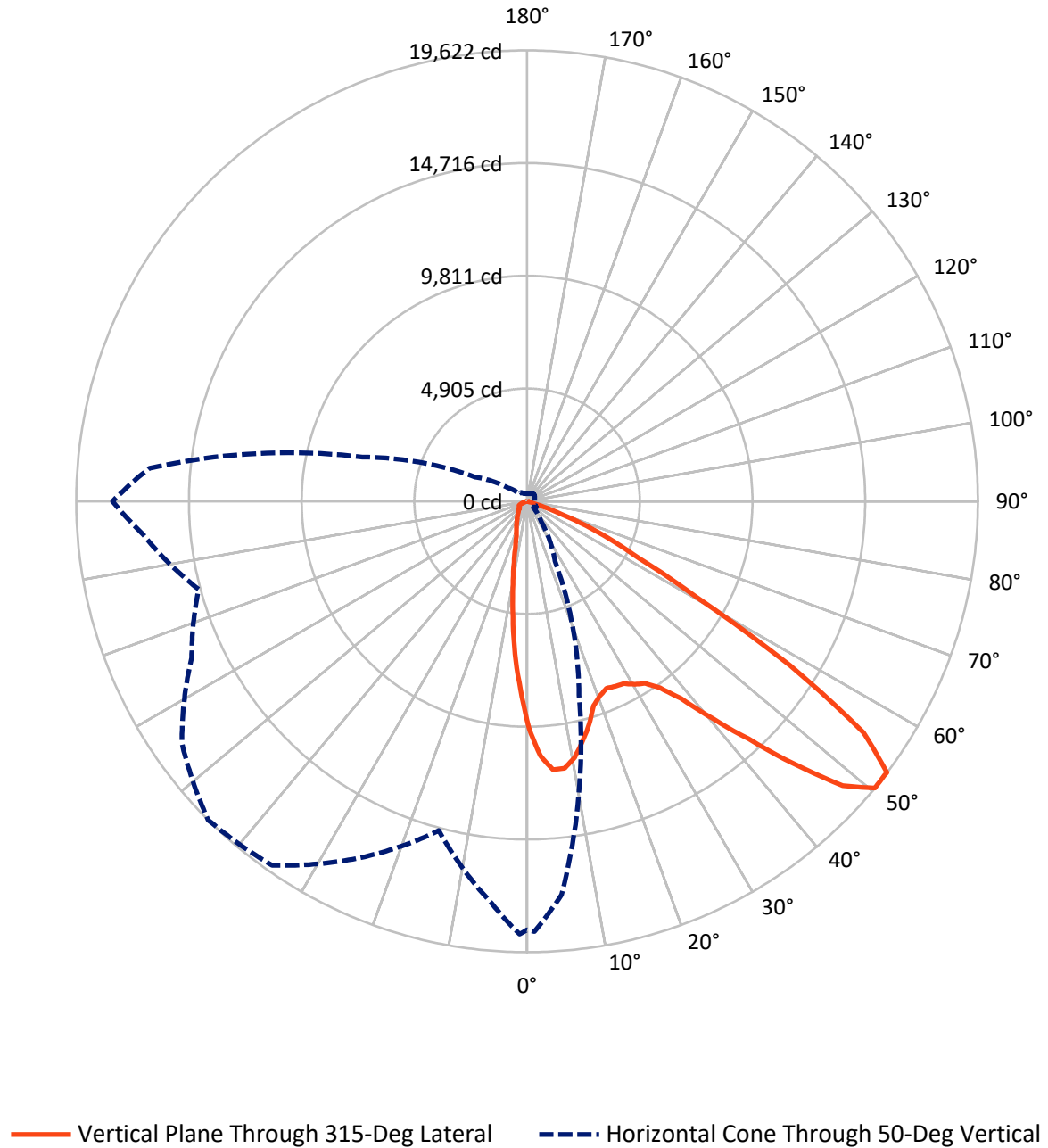
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	3898.6	0.0	3898.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	15565.4	0.0	15565.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	19464.0	0.0	19464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.5	3.7
10°-20°	1429.9	7.3
20°-30°	2148.2	11.0
30°-40°	3224.3	16.6
40°-50°	4531.6	23.3
50°-60°	4888.1	25.1
60°-70°	2269.5	11.7
70°-80°	213.5	1.1
80°-90°	39.4	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°	19464.0	100.0
0°-180°	19464.0	100.0

Coefficient of Utilization



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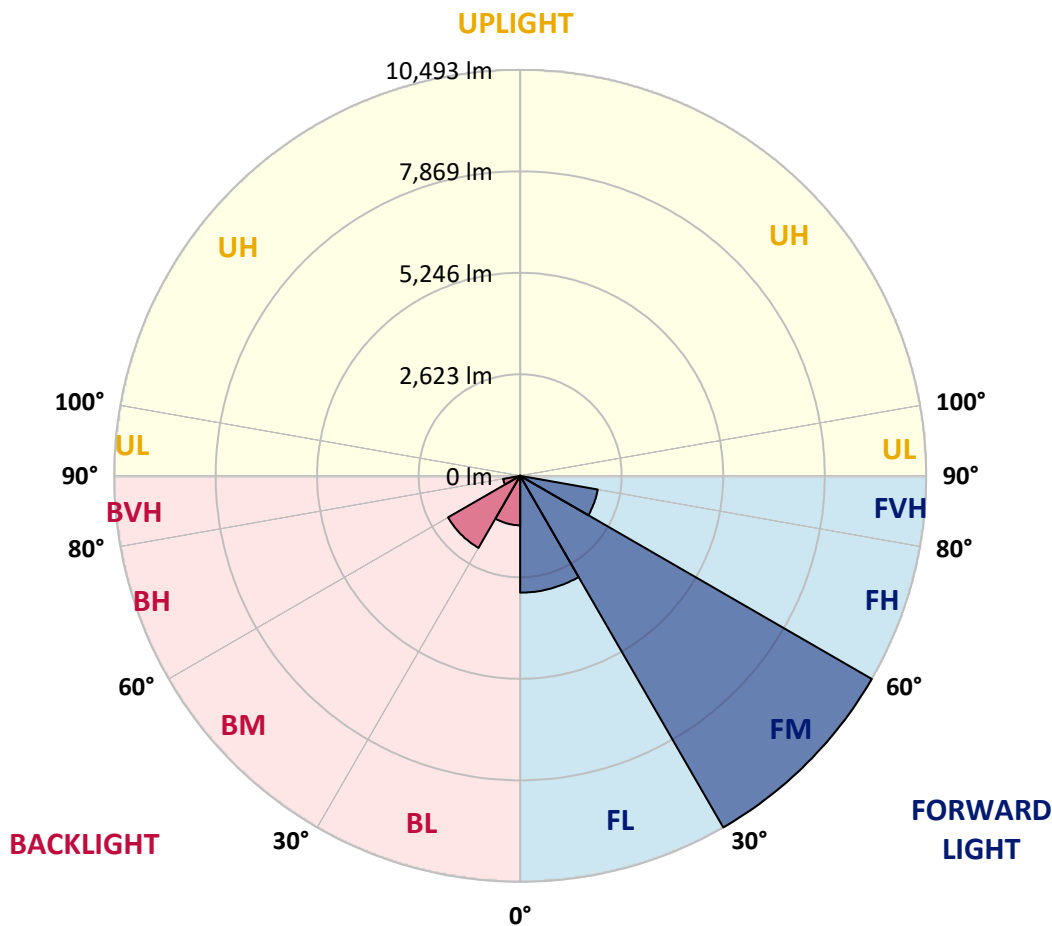
CATALOG NUMBER: GALN-SA5C-740-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3019.7	15.5			
FM (30°-60°)	10492.6	53.9			
FH (60°-80°)	2035.4	10.5			G2/5000
FVH (80°-90°)	17.7	0.1			G1/100
BL (0°-30°)	1277.9	6.6	B3/2500		
BM (30°-60°)	2151.5	11.1	B2/2500		
BH (60°-80°)	447.7	2.3	B1/500		G1/500
BVH (80°-90°)	21.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7
2.5°	10260.7	10102.4	9901.6	9735.5	9488.4	8990.2	8855.1	8692.9	8557.7	8376.2	8121.3
5°	9330.1	9279.8	9187.2	8561.6	8109.7	7507.3	7013.0	6804.5	6530.3	6306.3	6144.1
7.5°	8619.5	8418.7	8125.2	7495.7	6773.6	6128.6	5580.3	5259.7	4896.7	4773.2	4553.0
10°	7858.7	7905.1	7472.5	6588.2	5715.4	5194.1	4854.3	4545.3	4217.1	4000.8	3688.0
12.5°	7615.4	7464.8	7132.7	6039.8	5294.5	4807.9	4394.7	4012.4	3664.8	3317.3	3016.0
15°	7773.8	7542.1	7078.6	5924.0	4970.1	4363.8	3846.3	3328.9	3008.3	2564.2	2251.4
17.5°	8341.4	8156.1	7534.3	6047.5	4804.1	3939.0	3170.5	2637.6	2147.1	1745.5	1587.2
20°	9287.6	9025.0	8244.9	6205.9	4556.9	3425.4	2571.9	1915.4	1452.0	1282.1	1193.3
22.5°	10214.4	10071.5	9086.8	6511.0	4336.8	2969.7	1930.9	1289.8	1085.2	1054.3	996.3
25°	11979.2	11550.6	10372.7	7063.2	4166.9	2541.0	1455.9	1038.8	919.1	895.9	903.7
27.5°	13029.6	12670.5	11562.2	7430.1	3977.6	2212.8	1231.9	953.9	872.8	822.6	803.2
30°	14037.6	13620.5	12153.0	7646.3	3572.1	1865.2	1092.9	915.2	895.9	822.6	799.4
32.5°	14813.8	14404.4	13006.5	7970.7	3406.1	1641.3	899.8	714.4	664.2	656.5	726.0
35°	16003.2	15566.8	13736.3	8148.3	3278.6	1525.4	780.1	637.2	579.3	556.1	560.0
37.5°	17111.5	16814.2	14412.2	8217.9	3143.5	1490.6	699.0	571.5	521.3	505.9	502.0
40°	18038.4	17374.1	15053.2	8291.2	3085.6	1425.0	648.8	521.3	486.6	463.4	463.4
42.5°	18463.2	17787.3	15771.5	8248.8	3070.1	1320.7	648.8	478.9	451.8	428.7	424.8
45°	18370.5	18096.3	16092.0	8229.4	3070.1	1216.5	590.9	467.3	428.7	397.8	390.0
47.5°	18609.9	18250.8	16493.6	8310.5	3008.3	1143.1	498.2	490.4	405.5	366.9	359.1
50°	18652.4	18721.9	17192.6	8731.5	2873.2	1050.4	390.0	482.7	390.0	332.1	324.4
52°	18930.4	18497.9	17405.0	8955.5	2730.3	980.9	328.3	413.2	374.6	308.9	301.2
52.5°	18548.1	18830.0	17455.2	9036.6	2745.7	934.5	316.7	405.5	366.9	308.9	289.6
55°	18119.5	18389.8	17250.6	9210.3	2517.9	733.7	247.2	293.5	332.1	270.3	258.7
57.5°	15748.3	16022.5	14991.4	8434.1	2050.6	517.5	204.7	220.1	293.5	251.0	239.4
60°	13998.9	13802.0	12581.7	7036.2	1455.9	289.6	162.2	169.9	320.5	231.7	227.8
62.5°	12794.1	12373.1	10515.6	5433.5	888.2	193.1	127.4	131.3	247.2	216.3	216.3
65°	9465.2	8994.1	6986.0	3286.4	436.4	135.2	96.5	104.3	154.5	185.4	185.4
67.5°	5402.6	5221.1	3375.2	1482.9	181.5	85.0	73.4	81.1	119.7	150.6	142.9
70°	2483.1	2228.2	1297.6	312.8	85.0	57.9	57.9	65.7	96.5	112.0	104.3
72.5°	726.0	687.4	316.7	50.2	34.8	34.8	38.6	50.2	73.4	85.0	77.2
75°	54.1	34.8	23.2	15.4	15.4	23.2	30.9	50.2	73.4	81.1	65.7
77.5°	3.9	7.7	3.9	3.9	11.6	23.2	34.8	61.8	96.5	100.4	73.4
80°	3.9	3.9	0.0	3.9	11.6	23.2	38.6	69.5	108.1	115.9	61.8
82.5°	0.0	0.0	0.0	3.9	15.4	30.9	46.3	73.4	100.4	123.6	65.7
85°	0.0	0.0	0.0	3.9	23.2	42.5	54.1	19.3	11.6	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°	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7
2.5°	8302.8	8202.4	8163.8	8198.6	8187.0	8175.4	8387.8	8341.4	8333.7	8403.2	8387.8
5°	6232.9	6055.3	6541.8	6344.9	6549.6	6673.2	6696.3	6707.9	6850.8	6700.2	6897.1
7.5°	4441.0	4487.4	4483.5	4614.8	4850.4	5058.9	5182.5	5086.0	5078.2	5058.9	4974.0
10°	3549.0	3467.9	3452.4	3421.5	3494.9	3672.5	3823.2	3703.4	3618.5	3734.3	3699.6
12.5°	2900.2	2788.2	2726.4	2602.8	2606.7	2726.4	2726.4	2726.4	2811.4	2877.0	2927.2
15°	2224.4	2131.7	2131.7	2008.1	1981.1	1985.0	2046.7	2054.5	2189.6	2228.2	2247.6
17.5°	1556.3	1506.1	1564.0	1614.2	1583.3	1591.1	1614.2	1621.9	1641.3	1625.8	1664.4
20°	1197.2	1189.4	1204.9	1293.7	1359.3	1398.0	1370.9	1332.3	1309.1	1255.1	1255.1
22.5°	1015.6	1031.1	1058.1	1131.5	1216.5	1239.6	1208.7	1119.9	1050.4	1042.7	1046.5
25°	903.7	919.1	961.6	1007.9	1054.3	1092.9	1062.0	996.3	957.7	923.0	923.0
27.5°	834.1	841.9	865.0	899.8	938.4	969.3	957.7	923.0	880.5	865.0	830.3
30°	780.1	791.7	818.7	826.4	861.2	876.6	857.3	849.6	822.6	803.2	791.7
32.5°	753.0	749.2	768.5	776.2	780.1	791.7	768.5	780.1	776.2	745.3	733.7
35°	567.7	598.6	648.8	691.3	702.8	718.3	714.4	699.0	656.5	621.7	579.3
37.5°	509.8	529.1	556.1	590.9	637.2	656.5	648.8	610.2	560.0	536.8	529.1
40°	471.1	482.7	505.9	529.1	575.4	610.2	583.1	548.4	509.8	490.4	478.9
42.5°	436.4	440.2	451.8	475.0	509.8	563.8	517.5	471.1	455.7	444.1	436.4
45°	397.8	397.8	413.2	424.8	463.4	513.6	467.3	424.8	417.1	409.3	405.5
47.5°	366.9	370.7	378.5	393.9	424.8	459.6	428.7	393.9	374.6	370.7	363.0
50°	328.3	332.1	347.6	363.0	401.6	420.9	401.6	363.0	343.7	332.1	332.1
52°	297.4	308.9	324.4	355.3	382.3	413.2	390.0	347.6	324.4	312.8	305.1
52.5°	293.5	301.2	316.7	351.4	382.3	409.3	386.2	343.7	316.7	308.9	301.2
55°	262.6	274.2	301.2	343.7	378.5	409.3	378.5	339.8	301.2	281.9	274.2
57.5°	251.0	258.7	293.5	347.6	374.6	409.3	378.5	339.8	301.2	266.5	258.7
60°	239.4	254.9	293.5	336.0	370.7	413.2	382.3	336.0	293.5	251.0	251.0
62.5°	227.8	239.4	289.6	328.3	355.3	397.8	366.9	328.3	281.9	239.4	235.6
65°	197.0	216.3	254.9	274.2	305.1	343.7	312.8	285.8	247.2	212.4	208.5
67.5°	150.6	158.3	189.2	212.4	231.7	266.5	251.0	216.3	189.2	162.2	162.2
70°	104.3	112.0	135.2	146.7	166.1	185.4	173.8	146.7	127.4	112.0	108.1
72.5°	73.4	77.2	85.0	92.7	100.4	108.1	104.3	85.0	73.4	69.5	65.7
75°	57.9	65.7	69.5	65.7	61.8	57.9	57.9	50.2	42.5	38.6	38.6
77.5°	57.9	61.8	57.9	50.2	42.5	38.6	34.8	30.9	23.2	19.3	23.2
80°	50.2	50.2	50.2	42.5	38.6	34.8	30.9	27.0	23.2	19.3	19.3
82.5°	54.1	54.1	50.2	42.5	42.5	34.8	34.8	30.9	27.0	19.3	19.3
85°	0.0	0.0	0.0	7.7	19.3	34.8	34.8	30.9	27.0	23.2	23.2
87.5°	0.0	0.0	0.0	0.0	3.9	7.7	15.4	19.3	23.2	23.2	23.2
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°	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7
2.5°	8526.8	8673.6	8951.6	9229.6	9399.6	9600.4	9963.4	10156.5	10407.5	10531.1	10774.4
5°	6870.1	7217.7	7341.2	7657.9	7997.7	8337.6	8878.2	9472.9	9967.2	10307.1	10747.3
7.5°	5012.6	5093.7	5572.5	5784.9	6341.0	6958.9	7696.5	8445.7	9071.3	9627.4	9963.4
10°	3757.5	4054.9	4356.1	4761.6	5209.5	5846.7	6553.4	7379.9	8190.8	8746.9	9171.7
12.5°	3019.9	3255.5	3657.1	4093.5	4645.7	5066.7	5777.2	6595.9	7646.3	8190.8	8750.8
15°	2286.2	2587.4	3043.1	3494.9	4078.0	4522.1	5240.4	6271.5	7623.1	8372.3	8855.1
17.5°	1695.3	1900.0	2309.3	2815.2	3409.9	4035.6	5004.9	6236.8	7881.9	8774.0	9272.1
20°	1297.6	1367.1	1625.8	2077.6	2722.6	3541.2	4622.5	6387.4	8646.5	9751.0	10256.9
22.5°	1050.4	1081.3	1181.7	1494.5	2120.1	3108.7	4441.0	6491.6	9507.7	10921.1	11596.9
25°	915.2	907.5	973.2	1108.3	1656.7	2703.2	4209.3	6885.5	10562.0	12295.9	12902.2
27.5°	834.1	834.1	865.0	961.6	1374.8	2440.6	4062.6	7167.5	11623.9	13504.6	13832.9
30°	791.7	799.4	888.2	919.1	1143.1	2127.8	3819.3	7453.2	12639.6	14277.0	14728.8
32.5°	733.7	702.8	683.5	760.8	961.6	1845.9	3576.0	7572.9	13462.2	15223.1	15609.3
35°	563.8	548.4	571.5	629.5	826.4	1606.5	3305.7	7708.1	14408.3	16319.9	16397.1
37.5°	509.8	505.9	521.3	571.5	695.1	1398.0	3112.6	7673.4	15130.4	17227.4	17018.9
40°	471.1	471.1	482.7	525.2	621.7	1251.2	2911.8	7642.5	15829.4	18246.9	17636.7
42.5°	440.2	440.2	459.6	486.6	590.9	1154.7	2761.2	7600.0	16416.4	18872.5	17999.7
45°	397.8	409.3	440.2	467.3	598.6	1089.0	2649.2	7437.8	16617.2	18864.8	17826.0
47.5°	366.9	382.3	413.2	451.8	540.6	1069.7	2571.9	7294.9	16547.7	18401.4	17281.5
50°	332.1	351.4	393.9	459.6	459.6	1031.1	2490.8	7422.3	16497.5	18042.2	16760.1
52°	308.9	324.4	378.5	448.0	401.6	950.0	2440.6	7669.5	16702.2	17995.9	16528.4
52.5°	305.1	316.7	366.9	440.2	382.3	934.5	2405.9	7727.4	16767.8	17880.0	16686.7
55°	270.3	285.8	336.0	343.7	312.8	768.5	2293.9	7858.7	16443.4	17652.2	16536.1
57.5°	254.9	262.6	297.4	281.9	270.3	579.3	1973.4	7654.0	14605.2	15678.8	15385.3
60°	235.6	243.3	278.0	220.1	227.8	405.5	1482.9	6646.1	11728.2	13064.4	13593.5
62.5°	227.8	224.0	262.6	177.6	193.1	293.5	1046.5	5402.6	9036.6	10755.0	11670.3
65°	200.8	197.0	189.2	150.6	166.1	227.8	625.6	3525.8	6368.1	8136.8	8638.8
67.5°	154.5	162.2	139.0	119.7	139.0	177.6	347.6	1579.5	3340.4	4881.3	5286.8
70°	108.1	115.9	112.0	104.3	123.6	146.7	200.8	540.6	1382.5	2564.2	2826.8
72.5°	65.7	81.1	85.0	88.8	108.1	127.4	142.9	173.8	366.9	907.5	1127.6
75°	38.6	54.1	65.7	77.2	88.8	108.1	119.7	123.6	127.4	169.9	274.2
77.5°	27.0	38.6	57.9	73.4	88.8	108.1	127.4	135.2	127.4	119.7	127.4
80°	23.2	38.6	54.1	69.5	92.7	112.0	127.4	127.4	123.6	108.1	115.9
82.5°	23.2	38.6	57.9	73.4	88.8	108.1	123.6	127.4	115.9	108.1	112.0
85°	27.0	42.5	61.8	77.2	96.5	88.8	81.1	65.7	61.8	50.2	54.1
87.5°	27.0	38.6	38.6	42.5	46.3	46.3	46.3	42.5	34.8	30.9	30.9
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: P530343

CATALOG NUMBER: GALN-SA5C-740-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7	9870.7
2.5°	10785.9	11094.9	11083.3	11091.0	11044.7	10731.9	10581.3	10199.0	10307.1	10260.7
5°	11199.2	11504.2	11766.8	11735.9	11380.7	10955.9	10326.4	9731.7	9569.5	9330.1
7.5°	10785.9	11519.7	11763.0	11728.2	11203.0	10658.5	9654.4	9059.7	8777.8	8619.5
10°	10129.4	10979.0	11280.3	11342.0	10986.8	10160.3	9237.4	8283.5	8132.9	7858.7
12.5°	9754.8	10372.7	10558.1	10724.2	10600.6	9982.7	8920.7	8005.5	7796.9	7615.4
15°	9449.8	9816.6	9893.9	10083.1	10156.5	9824.4	9086.8	8306.7	7793.1	7773.8
17.5°	9731.7	9581.1	9299.2	9357.1	9588.8	9828.2	9515.4	8901.4	8403.2	8341.4
20°	10199.0	9534.7	8897.5	9040.4	9233.5	9967.2	10164.2	9731.7	9445.9	9287.6
22.5°	10735.7	9615.8	8770.1	8839.6	9206.5	10280.0	11214.6	10975.2	10442.2	10214.4
25°	11728.2	9839.8	8870.5	8916.8	9418.9	10716.4	12164.6	12342.2	12025.6	11979.2
27.5°	12697.5	10419.1	9090.6	8986.4	9527.0	11141.2	12740.0	13693.9	13137.8	13029.6
30°	13191.8	10890.2	9418.9	9241.2	9975.0	11400.0	13087.6	14574.3	14087.8	14037.6
32.5°	13948.7	11318.9	9673.8	9445.9	10226.0	11720.5	13736.3	15535.9	15064.8	14813.8
35°	14265.4	11786.1	10233.7	9967.2	10944.3	12168.5	14068.5	16393.2	16246.5	16003.2
37.5°	14875.6	12288.2	10894.1	10878.6	11813.2	12751.6	14667.0	17559.5	17532.5	17111.5
40°	14925.8	12836.5	11936.8	12423.3	13157.1	13767.2	15192.2	17883.9	18324.1	18038.4
42.5°	15003.0	13798.1	13740.2	14141.8	14771.3	14640.0	15211.5	17961.1	18633.1	18463.2
45°	15037.8	14759.7	15574.5	16316.0	16578.6	15783.1	15030.0	17814.4	18795.3	18370.5
47.5°	14759.7	15586.1	17057.5	18490.2	18567.4	16485.9	14952.8	17663.8	18891.8	18609.9
50°	14798.3	16103.6	18339.6	19621.7	19339.8	17107.7	14833.1	17571.1	18841.6	18652.4
52°	14705.6	16115.2	18521.1	19598.5	19401.6	16764.0	14628.4	17215.8	18795.3	18930.4
52.5°	14809.9	16045.7	18331.9	19614.0	19359.1	16933.9	14601.4	17412.8	18822.3	18548.1
55°	14450.8	15219.3	17223.5	17768.0	17729.4	15369.9	13771.1	16760.1	18115.6	18119.5
57.5°	13060.5	13191.8	13508.5	13496.9	13319.3	12083.5	11778.4	15412.4	16150.0	15748.3
60°	11508.1	9658.3	8804.9	8457.3	8260.3	8059.5	10419.1	14099.3	14168.9	13998.9
62.5°	9944.1	6696.3	5561.0	5464.4	5510.8	6244.5	10071.5	13578.0	13160.9	12794.1
65°	8024.8	4881.3	4039.4	3912.0	4363.8	5155.5	8152.2	10411.4	9770.3	9465.2
67.5°	5039.6	3560.6	2730.3	2490.8	3035.4	3549.0	5356.3	6541.8	5823.6	5402.6
70°	2989.0	1988.8	1235.8	1108.3	1247.4	1892.3	3000.6	3263.2	2699.4	2483.1
72.5°	1177.8	729.9	343.7	293.5	305.1	664.2	1104.5	1077.4	814.8	726.0
75°	316.7	220.1	119.7	96.5	81.1	123.6	177.6	115.9	42.5	54.1
77.5°	146.7	131.3	104.3	81.1	61.8	46.3	23.2	7.7	7.7	3.9
80°	127.4	112.0	96.5	81.1	61.8	38.6	19.3	3.9	3.9	3.9
82.5°	119.7	104.3	88.8	73.4	57.9	38.6	19.3	3.9	0.0	0.0
85°	50.2	65.7	73.4	69.5	61.8	38.6	19.3	3.9	0.0	0.0
87.5°	27.0	23.2	19.3	15.4	11.6	7.7	7.7	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)