

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: P530344

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26221 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

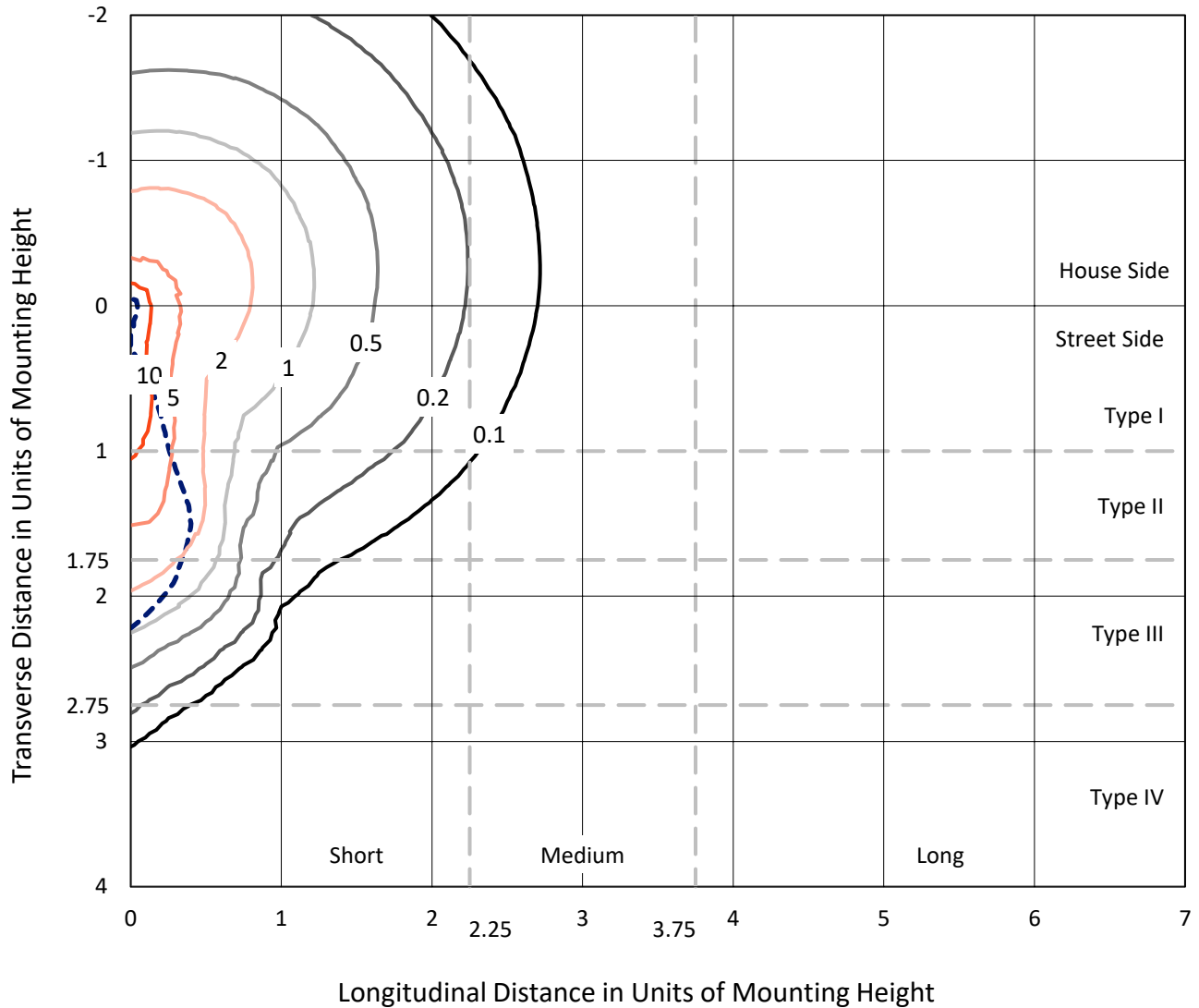
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530344
 CATALOG NUMBER: GALN-SA5C-740-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

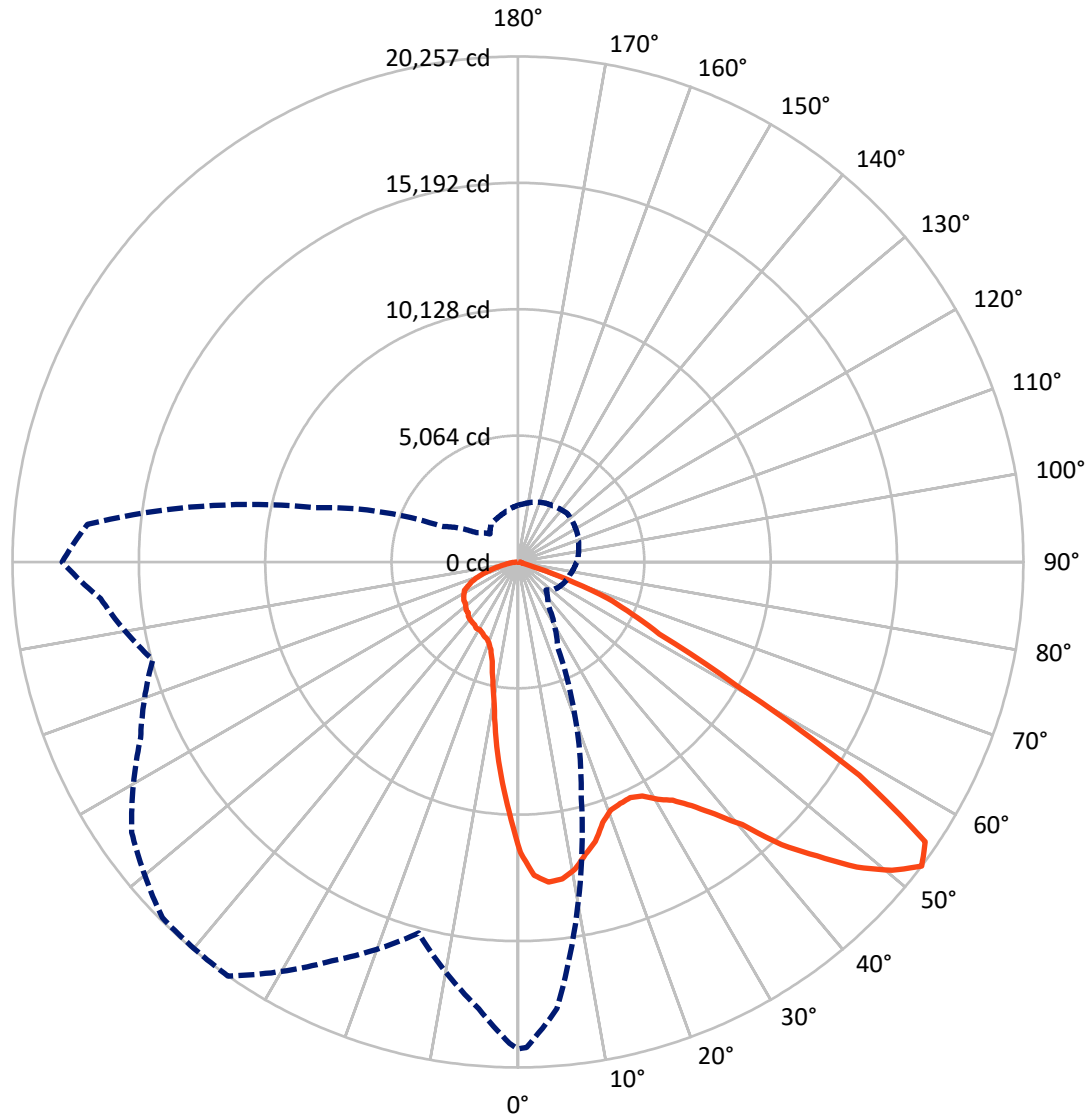
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type III - Short - N/A

REPORT NUMBER: P530344
CATALOG NUMBER: GALN-SA5C-740-U-SLR-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P530344
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7904.5	0.0	7904.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	18316.5	0.0	18316.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	26221.0	0.0	26221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.8	3.4
10°-20°	1924.6	7.3
20°-30°	2908.0	11.1
30°-40°	4202.1	16.0
40°-50°	5592.3	21.3
50°-60°	6255.1	23.9
60°-70°	3525.3	13.4
70°-80°	785.8	3.0
80°-90°	139.9	0.5
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°	26221.0	100.0
0°-180°	26221.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530344

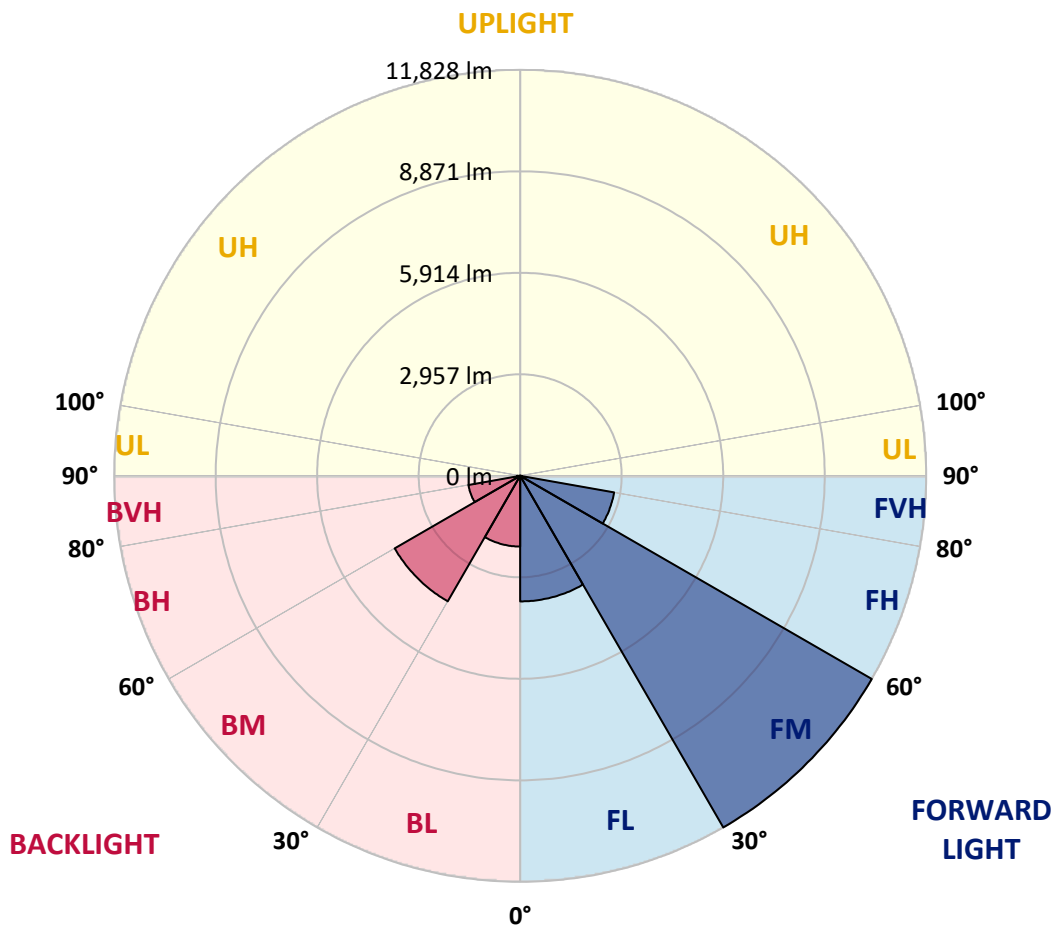
CATALOG NUMBER: GALN-SA5C-740-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3659.1	14.0			
FM (30°-60°)	11827.7	45.1			
FH (60°-80°)	2779.0	10.6			G2/5000
FVH (80°-90°)	50.7	0.2			G1/100
BL (0°-30°)	2061.3	7.9	B3/2500		
BM (30°-60°)	4221.8	16.1	B3/5000		
BH (60°-80°)	1532.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	89.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P530344

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0
2.5°	11830.9	12020.9	11815.7	11450.8	11192.4	10956.8	10709.7	10660.3	10337.3	10280.3	10044.6
5°	11158.2	11116.4	10865.5	10386.7	9858.4	9379.6	9026.1	8684.1	8452.2	8182.4	8163.4
7.5°	10341.1	10097.9	9953.4	9227.5	8573.9	7821.4	7498.3	6977.7	6814.2	6571.0	6445.6
10°	9611.4	9432.8	9094.5	8368.6	7456.5	6958.7	6612.8	6331.6	6141.6	5890.7	5575.3
12.5°	9250.3	9178.1	8798.1	7673.2	6996.7	6464.6	6221.4	5947.7	5624.7	5221.8	5066.0
15°	9315.0	9071.7	8782.9	7540.1	6605.2	6092.2	5704.5	5362.5	4948.2	4564.4	4340.1
17.5°	9797.6	9611.4	9033.7	7623.7	6457.0	5715.9	5012.8	4507.4	4134.9	3789.1	3633.2
20°	10747.7	10477.9	9828.0	7730.2	6137.8	5191.4	4385.7	3762.5	3363.4	3181.0	3127.8
22.5°	11800.5	11640.8	10603.3	7969.6	5883.1	4705.0	3720.7	3097.4	2949.2	2899.8	2998.6
25°	13081.2	12667.0	11808.1	8361.0	5685.5	4290.7	3158.2	2812.3	2736.3	2785.7	2899.8
27.5°	14054.1	13943.9	12651.8	8729.7	5415.7	3792.9	2842.8	2614.7	2637.5	2686.9	2793.3
30°	15209.5	14650.8	13468.9	8984.3	5172.4	3450.8	2622.3	2561.5	2584.3	2667.9	2721.1
32.5°	15905.0	15695.9	13981.9	9368.2	4891.2	3154.4	2451.3	2394.3	2428.5	2553.9	2679.3
35°	16790.5	16376.2	14616.6	9467.0	4693.6	3036.6	2329.7	2287.9	2367.7	2455.1	2595.7
37.5°	17824.2	17539.2	15494.5	9398.6	4587.2	2915.0	2227.1	2208.1	2265.1	2386.7	2550.1
40°	18436.1	18348.7	15954.4	9440.4	4419.9	2808.5	2109.3	2132.1	2249.9	2344.9	2504.5
42.5°	19025.2	18455.1	16634.7	9425.2	4313.5	2664.1	2120.7	2094.1	2185.3	2295.5	2447.5
45°	19154.4	18588.1	16794.3	9318.8	4184.3	2523.5	2033.3	2044.7	2154.9	2291.7	2390.5
47.5°	19070.8	18652.7	17090.7	9288.4	4062.7	2424.7	1904.0	2040.9	2105.5	2215.7	2356.3
50°	19013.8	18991.0	17341.5	9432.8	3899.3	2268.9	1748.2	1991.4	2056.1	2166.3	2318.3
52.5°	19515.4	19466.0	17968.6	9812.8	3770.1	2101.7	1588.6	1866.0	2021.9	2128.3	2276.5
55°	19819.5	19602.8	19044.2	10280.3	3553.4	1881.2	1478.4	1710.2	1938.2	2033.3	2185.3
57.5°	17828.0	17679.8	17227.5	9596.2	3188.6	1592.4	1341.6	1550.6	1824.2	1972.4	2128.3
60°	14833.2	14601.4	13442.3	8155.8	2352.5	1239.0	1258.0	1425.2	1793.8	1850.8	2033.3
62.5°	13985.7	13411.9	11834.7	6563.4	1805.2	1064.1	1128.7	1311.2	1634.2	1729.2	1911.6
65°	11097.4	10671.7	8467.4	4739.2	1208.5	923.5	1029.9	1181.9	1410.0	1596.2	1763.4
67.5°	6947.3	6540.6	4518.8	2242.3	843.7	790.5	919.7	1079.3	1265.6	1432.8	1619.0
70°	3629.4	3184.8	2086.5	809.5	581.5	646.1	767.7	919.7	1102.1	1239.0	1383.4
72.5°	1353.0	1098.3	680.3	349.6	402.8	494.1	623.3	733.5	862.7	1029.9	1109.7
75°	209.0	178.6	174.8	212.8	273.6	357.2	444.7	554.9	668.9	775.3	828.5
77.5°	98.8	95.0	106.4	140.6	182.4	254.6	323.0	429.5	520.7	589.1	619.5
80°	64.6	60.8	68.4	95.0	136.8	190.0	258.4	330.6	414.3	471.3	463.7
82.5°	38.0	41.8	41.8	64.6	95.0	136.8	186.2	250.8	307.8	357.2	326.8
85°	22.8	19.0	19.0	38.0	64.6	110.2	155.8	106.4	110.2	110.2	125.4
87.5°	7.6	7.6	7.6	3.8	7.6	7.6	11.4	19.0	22.8	26.6	34.2
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: P530344

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0
2.5°	10037.0	10154.9	10113.1	9964.8	10078.8	10097.9	10021.8	10284.1	10333.5	10253.7	10276.5
5°	8136.8	8167.2	8235.6	8380.0	8482.7	8604.3	8604.3	8611.9	8509.3	8767.7	8691.7
7.5°	6339.2	6358.2	6438.0	6745.8	6833.2	7065.1	7163.9	7095.5	6890.3	6802.8	6875.1
10°	5472.7	5362.5	5335.9	5373.9	5571.5	5670.3	5753.9	5731.1	5696.9	5628.5	5552.5
12.5°	4895.0	4815.2	4750.6	4659.4	4670.8	4765.8	4830.4	4777.2	4792.4	4807.6	4830.4
15°	4267.9	4210.9	4176.7	4039.9	4024.7	4089.3	4112.1	4142.5	4199.5	4203.3	4176.7
17.5°	3602.8	3553.4	3629.4	3705.5	3652.3	3656.1	3697.9	3724.5	3709.3	3640.9	3606.6
20°	3146.8	3200.0	3276.0	3348.2	3405.2	3439.4	3454.6	3412.8	3363.4	3222.8	3219.0
22.5°	3013.8	3082.2	3146.8	3257.0	3310.2	3397.6	3317.8	3222.8	3154.4	3086.0	3006.2
25°	2915.0	2972.0	3101.2	3143.0	3245.6	3317.8	3260.8	3165.8	3048.0	2949.2	2888.4
27.5°	2842.8	2907.4	2991.0	3105.0	3184.8	3226.6	3169.6	3131.6	3010.0	2892.2	2804.7
30°	2797.1	2865.6	3017.6	3112.6	3181.0	3215.2	3116.4	3070.8	2983.4	2884.6	2808.5
32.5°	2766.7	2827.6	2956.8	3078.4	3124.0	3124.0	3139.2	3086.0	2964.4	2797.1	2732.5
35°	2667.9	2751.5	2858.0	2998.6	3082.2	3131.6	3055.6	2994.8	2915.0	2743.9	2626.1
37.5°	2610.9	2667.9	2804.7	2937.8	3010.0	3063.2	3032.8	2926.4	2819.9	2679.3	2584.3
40°	2550.1	2641.3	2762.9	2888.4	2968.2	3021.4	2998.6	2873.2	2743.9	2610.9	2546.3
42.5°	2508.3	2569.1	2694.5	2835.2	2930.2	3032.8	2964.4	2808.5	2717.3	2534.9	2462.7
45°	2474.1	2572.9	2705.9	2762.9	2861.8	2968.2	2846.6	2751.5	2645.1	2512.1	2451.3
47.5°	2432.3	2523.5	2610.9	2762.9	2808.5	2858.0	2835.2	2683.1	2591.9	2447.5	2405.7
50°	2417.1	2451.3	2610.9	2694.5	2759.1	2808.5	2747.7	2633.7	2546.3	2398.1	2306.9
52.5°	2356.3	2420.9	2523.5	2633.7	2713.5	2774.3	2675.5	2603.3	2485.5	2329.7	2272.7
55°	2280.3	2318.3	2500.7	2614.7	2656.5	2698.3	2660.3	2542.5	2420.9	2261.3	2204.3
57.5°	2181.5	2268.9	2417.1	2576.7	2629.9	2652.7	2591.9	2496.9	2344.9	2204.3	2113.1
60°	2078.9	2170.1	2333.5	2462.7	2515.9	2599.5	2508.3	2451.3	2276.5	2120.7	2021.9
62.5°	1976.2	2078.9	2200.5	2363.9	2409.5	2443.7	2420.9	2341.1	2200.5	2025.7	1904.0
65°	1854.6	1930.6	2082.7	2166.3	2196.7	2276.5	2196.7	2166.3	2040.9	1873.6	1771.0
67.5°	1672.2	1736.8	1869.8	1949.6	1972.4	2006.6	2002.8	1968.6	1828.0	1714.0	1622.8
70°	1463.2	1520.2	1603.8	1698.8	1710.2	1752.0	1714.0	1706.4	1615.2	1459.4	1410.0
72.5°	1174.3	1227.6	1337.8	1379.6	1383.4	1398.6	1379.6	1353.0	1330.2	1166.7	1117.3
75°	900.7	931.1	984.3	1022.3	1022.3	1041.3	1029.9	1003.3	942.5	839.9	790.5
77.5°	627.1	657.5	725.9	748.7	744.9	752.5	718.3	691.7	600.5	547.3	505.5
80°	456.1	475.1	509.3	524.5	528.3	539.7	497.9	475.1	421.9	361.0	342.0
82.5°	330.6	342.0	345.8	364.8	364.8	345.8	334.4	311.6	273.6	235.6	220.4
85°	136.8	140.6	144.4	167.2	171.0	205.2	190.0	178.6	155.8	133.0	121.6
87.5°	34.2	38.0	49.4	41.8	49.4	49.4	53.2	60.8	60.8	49.4	49.4
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°	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0
2.5°	10363.9	10394.3	10781.9	10831.3	11021.4	11215.2	11606.6	11887.9	12115.9	12264.1	12305.9
5°	8771.5	8965.3	9143.9	9432.8	9695.0	10067.4	10496.9	11029.0	11697.8	12039.9	12176.7
7.5°	6867.5	7095.5	7353.9	7635.1	8019.0	8687.9	9261.7	9877.4	10732.5	11086.0	11621.8
10°	5605.7	5860.3	6202.4	6419.0	6882.7	7521.1	8190.0	8900.7	9717.8	10227.1	10846.5
12.5°	4955.8	5164.8	5480.3	5936.3	6282.2	6696.4	7194.3	8091.2	9261.7	9744.4	10170.1
15°	4237.5	4469.4	4834.2	5339.7	5753.9	6248.0	6806.6	7783.4	9029.9	9774.8	10135.9
17.5°	3644.7	3811.9	4195.7	4632.8	5107.8	5647.5	6449.4	7768.2	9273.1	10227.1	10816.1
20°	3234.2	3257.0	3466.0	3838.5	4484.6	5187.6	6229.0	7692.2	10052.2	11006.2	11751.1
22.5°	2975.8	2953.0	2956.8	3272.2	3724.5	4735.4	5883.1	7950.6	10937.8	12245.1	12746.8
25°	2846.6	2785.7	2747.7	2816.1	3226.6	4199.5	5620.9	8292.6	11891.7	13267.4	13883.1
27.5°	2778.1	2671.7	2595.7	2607.1	2907.4	3929.7	5457.5	8440.8	12838.0	14692.6	14909.2
30°	2751.5	2618.5	2508.3	2470.3	2667.9	3553.4	5107.8	8695.5	13685.5	15475.5	15661.7
32.5°	2656.5	2493.1	2386.7	2352.5	2432.3	3222.8	4857.0	8877.9	14434.2	16326.8	16262.2
35°	2546.3	2409.5	2276.5	2211.9	2268.9	3010.0	4655.6	8790.5	15315.9	16988.1	16953.9
37.5°	2534.9	2356.3	2246.1	2139.7	2135.9	2747.7	4381.9	8874.1	15878.4	18173.9	17706.4
40°	2436.1	2322.1	2177.7	2090.3	2040.9	2614.7	4115.9	8676.5	16703.1	18652.7	18192.9
42.5°	2439.9	2268.9	2143.5	2040.9	1991.4	2420.9	3933.5	8623.3	16991.9	19431.8	18420.9
45°	2379.1	2211.9	2105.5	1983.8	1957.2	2272.7	3758.7	8376.2	17501.2	19469.8	18135.8
47.5°	2318.3	2170.1	2056.1	1911.6	1850.8	2219.5	3621.8	8171.0	17235.1	19112.6	17740.6
50°	2276.5	2105.5	1999.0	1896.4	1725.4	2128.3	3443.2	8121.6	16862.7	18629.9	17007.1
52.5°	2204.3	2052.3	1942.0	1862.2	1588.6	2044.7	3374.8	8410.4	17318.7	18268.9	16794.3
55°	2135.9	1980.0	1839.4	1683.6	1474.6	1824.2	3184.8	8680.3	17983.8	19101.2	17759.6
57.5°	2063.7	1915.4	1763.4	1577.2	1364.4	1596.2	2987.2	8729.7	16737.3	17653.2	16858.9
60°	1968.6	1778.6	1664.6	1421.4	1246.6	1322.6	2367.7	7696.0	12982.4	14742.0	14768.6
62.5°	1862.2	1657.0	1558.2	1273.2	1124.9	1140.1	1930.6	6468.4	10531.1	12203.3	12929.2
65°	1721.6	1524.0	1406.2	1178.1	1037.5	988.1	1413.8	4739.2	8000.0	9900.2	10724.9
67.5°	1539.2	1353.0	1204.7	1026.1	927.3	847.5	965.3	2667.9	4724.0	6647.0	6897.9
70°	1345.4	1185.7	1029.9	881.7	771.5	714.5	706.9	1181.9	2257.5	3576.2	4070.3
72.5°	1060.3	946.3	820.9	710.7	638.5	554.9	505.5	490.3	763.9	1455.6	2010.4
75°	760.1	665.1	592.9	520.7	467.5	421.9	383.8	349.6	319.2	364.8	501.7
77.5°	478.9	444.7	387.6	368.6	338.2	326.8	311.6	292.6	269.8	254.6	254.6
80°	323.0	300.2	281.2	277.4	266.0	262.2	266.0	247.0	224.2	205.2	212.8
82.5°	216.6	212.8	209.0	205.2	209.0	212.8	220.4	216.6	197.6	186.2	190.0
85°	129.2	136.8	144.4	152.0	167.2	148.2	121.6	102.6	91.2	83.6	79.8
87.5°	49.4	68.4	60.8	57.0	60.8	57.0	53.2	49.4	41.8	38.0	38.0
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: P530344

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0	11637.0
2.5°	12583.4	12659.4	12724.0	12708.8	12575.8	12397.1	12324.9	11956.3	11880.3	11830.9
5°	12754.4	13195.2	13290.2	13233.2	12887.4	12450.3	12024.7	11485.0	11169.6	11158.2
7.5°	12438.9	12982.4	13153.4	13282.6	12822.8	12062.7	11333.0	10523.5	10325.9	10341.1
10°	11637.0	12503.5	12925.4	13058.4	12530.2	11872.7	10861.7	10040.8	9619.0	9611.4
12.5°	11192.4	11872.7	11990.5	12176.7	12020.9	11355.8	10588.1	9668.4	9257.9	9250.3
15°	10797.1	11245.6	11279.8	11542.0	11625.6	11177.2	10660.3	9679.8	9349.2	9315.0
17.5°	11143.0	10831.3	10702.1	10736.3	10983.4	11146.8	11078.4	10325.9	9987.6	9797.6
20°	11374.8	10679.3	10287.9	10325.9	10618.5	11215.2	11701.6	11260.8	10724.9	10747.7
22.5°	11994.3	10702.1	10090.2	10048.4	10512.1	11572.4	12404.7	12442.7	11925.9	11800.5
25°	12921.6	10964.4	10029.4	10018.0	10462.7	11956.3	13225.6	13841.3	13313.0	13081.2
27.5°	13666.5	11374.8	10219.5	10257.5	10618.5	12267.9	13924.9	14742.0	14339.2	14054.1
30°	14320.2	11800.5	10485.5	10310.7	11036.6	12431.3	14225.2	15768.2	15445.1	15209.5
32.5°	14590.0	12404.7	10907.4	10618.5	11382.4	12629.0	14848.4	16763.9	16486.4	15905.0
35°	15046.1	12743.0	11135.4	11112.6	11986.7	13104.0	15141.1	17421.4	17307.3	16790.5
37.5°	15410.9	13085.0	11944.9	11694.0	12815.2	13902.1	15612.3	18329.7	18067.4	17824.2
40°	15692.1	13696.9	12701.2	13031.8	13833.7	14628.0	16045.6	18386.7	19143.0	18436.1
42.5°	15433.7	14244.2	13943.9	14734.4	15494.5	15456.5	16095.0	18827.5	19393.8	19025.2
45°	15369.1	15171.5	15908.8	16627.1	16801.9	16144.4	15741.5	18341.1	19317.8	19154.4
47.5°	15213.3	16083.6	17368.2	18538.7	18272.7	16604.3	15319.7	18253.7	19363.4	19070.8
50°	15160.1	16281.2	18447.5	19587.6	19428.0	17003.3	15122.1	17691.2	19040.4	19013.8
52.5°	15156.3	16687.9	18895.9	20157.7	20256.5	17634.2	15391.9	17976.2	19291.2	19515.4
55°	15327.3	16558.7	18838.9	19842.3	19804.3	17352.9	15422.3	18166.2	19599.0	19819.5
57.5°	14457.0	14833.2	15547.7	16342.0	16136.8	14373.4	13772.9	16794.3	17987.6	17828.0
60°	12484.5	11306.4	10500.7	10462.7	10063.6	9512.6	11272.2	14989.1	14989.1	14833.2
62.5°	10934.0	7422.3	6377.2	6080.8	6365.8	7000.5	10873.1	14578.6	14164.4	13985.7
65°	9562.0	5666.5	4610.0	4526.4	5020.4	5978.1	9831.8	12419.9	11690.2	11097.4
67.5°	6153.0	4150.1	3428.0	3279.8	3876.5	4389.5	6544.4	7638.9	7179.1	6947.3
70°	3967.7	2702.1	1907.8	1790.0	2021.9	2705.9	4180.5	4454.2	3785.3	3629.4
72.5°	1877.4	1166.7	668.9	551.1	619.5	1033.7	1653.2	1778.6	1478.4	1353.0
75°	596.7	429.5	273.6	235.6	224.2	266.0	380.0	292.6	212.8	209.0
77.5°	266.0	254.6	216.6	182.4	159.6	133.0	110.2	91.2	95.0	98.8
80°	220.4	201.4	178.6	159.6	133.0	102.6	79.8	60.8	60.8	64.6
82.5°	193.8	174.8	155.8	133.0	114.0	83.6	60.8	41.8	38.0	38.0
85°	83.6	98.8	106.4	114.0	91.2	68.4	41.8	26.6	22.8	22.8
87.5°	34.2	30.4	26.6	22.8	19.0	19.0	15.2	11.4	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)