

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: P650803

Luminaire Tested: **GALN-SA3C-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650803  
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-SA3C-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 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: 9758.1 lumens  
Efficiency: N/A  
Efficacy: 61.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

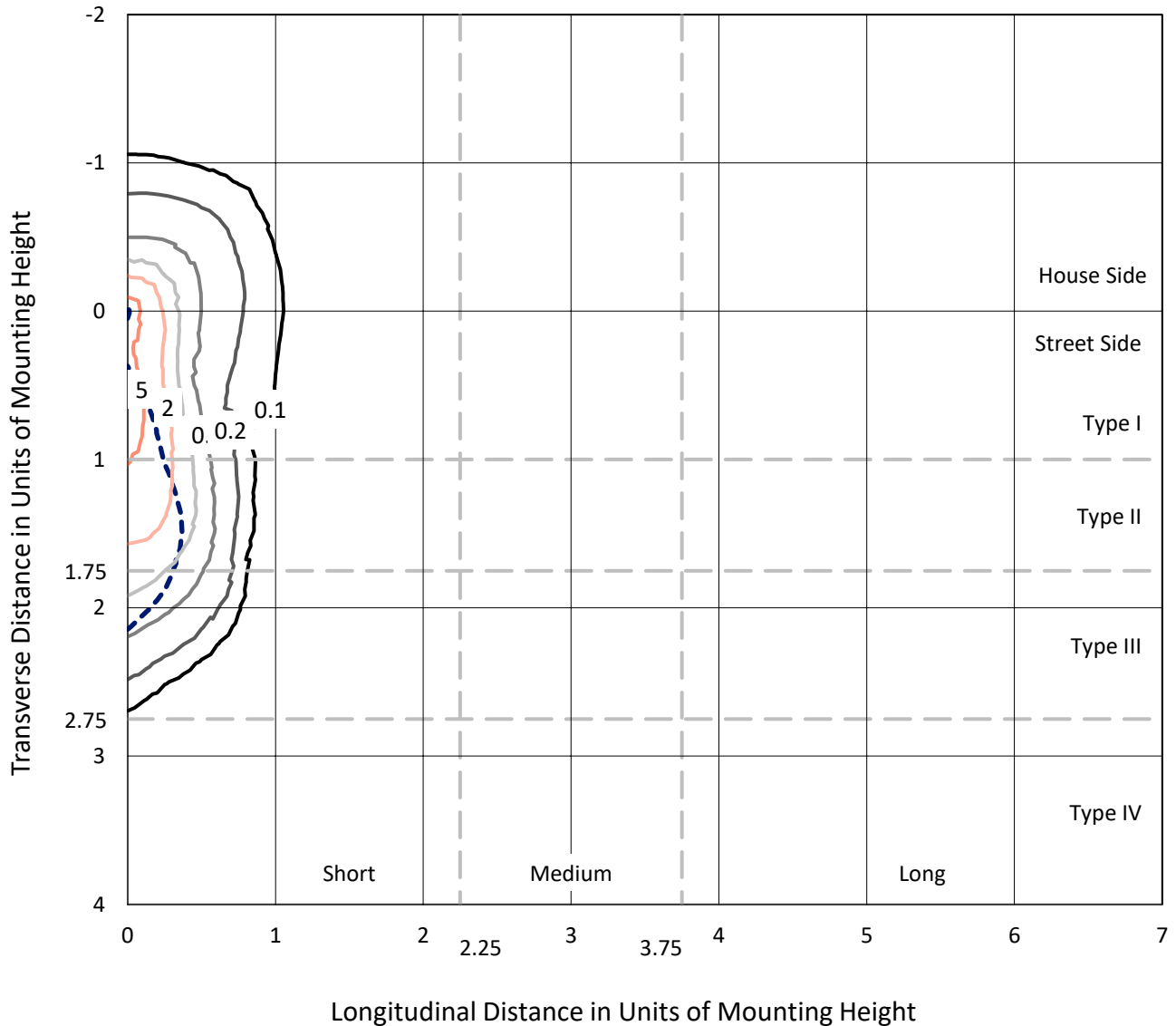
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

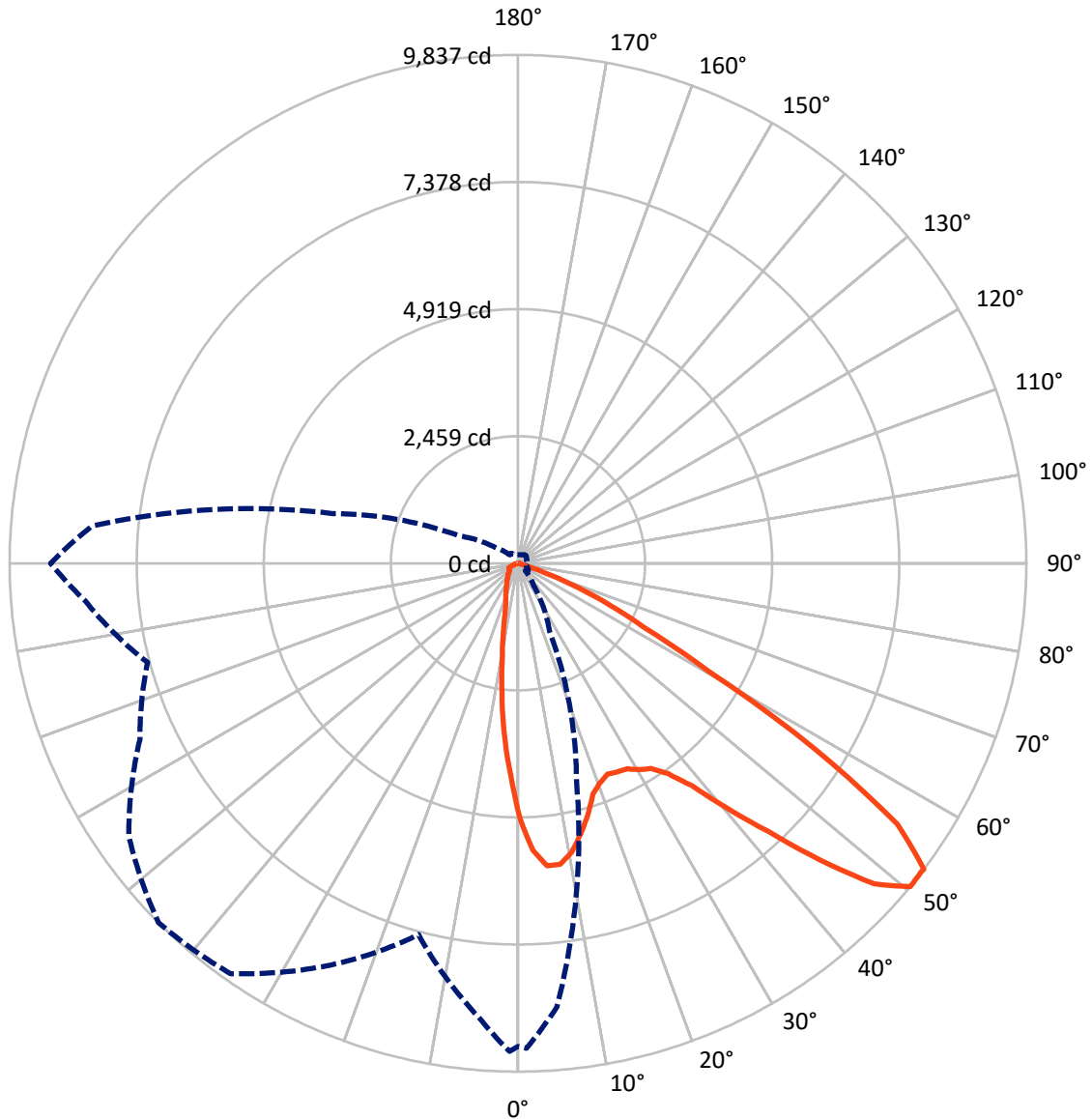
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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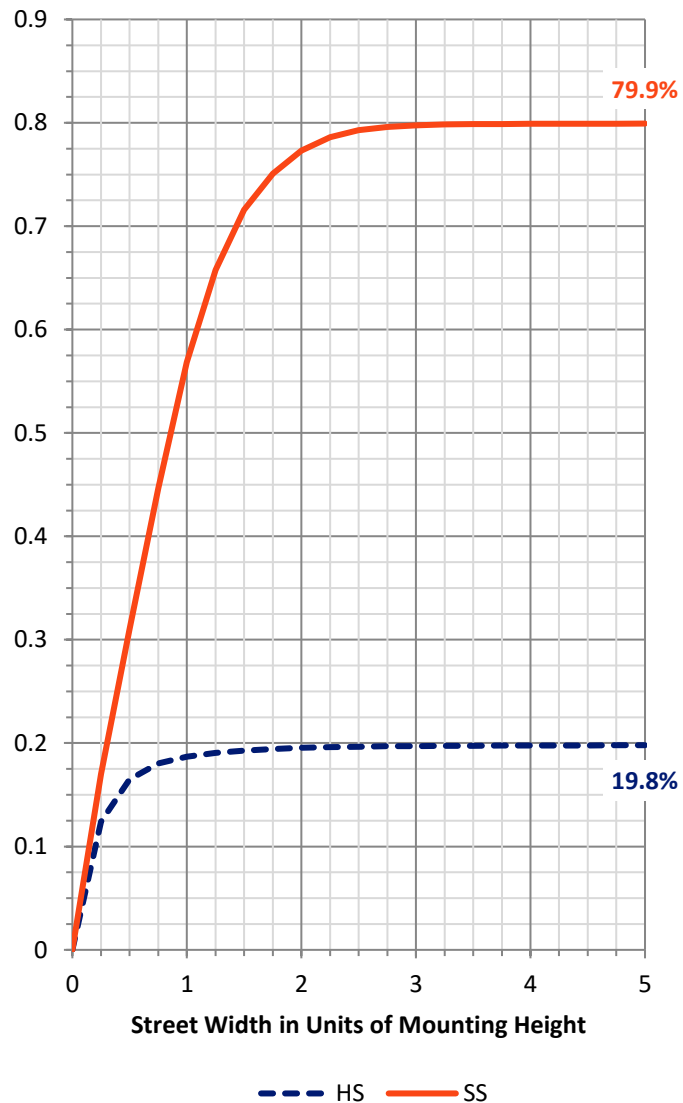
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1954.5	0.0	1954.5
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	7803.6	0.0	7803.6
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	9758.1	0.0	9758.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.7	3.7
10°-20°	716.9	7.3
20°-30°	1077.0	11.0
30°-40°	1616.5	16.6
40°-50°	2271.9	23.3
50°-60°	2450.6	25.1
60°-70°	1137.8	11.7
70°-80°	107.0	1.1
80°-90°	19.7	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°	9758.1	100.0
0°-180°	9758.1	100.0

**Coefficient of Utilization**



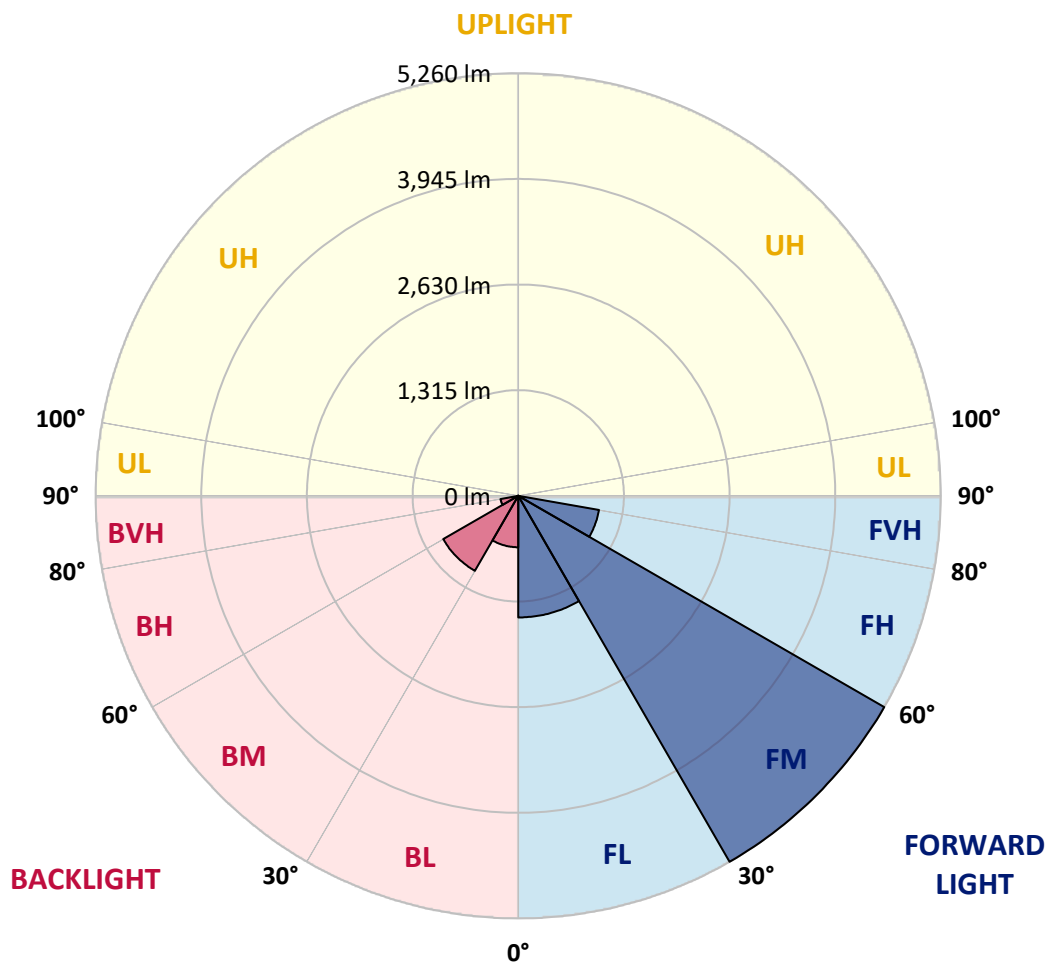
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.9	15.5			
FM (30°-60°)	5260.4	53.9			
FH (60°-80°)	1020.4	10.5			G1/1800
FVH (80°-90°)	8.9	0.1			G0/10
BL (0°-30°)	640.7	6.6	B2/1000		
BM (30°-60°)	1078.6	11.1	B2/2500		
BH (60°-80°)	224.4	2.3	B1/500		G1/500
BVH (80°-90°)	10.8	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6
2.5°	5144.1	5064.8	4964.1	4880.8	4756.9	4507.2	4439.4	4358.1	4290.4	4199.4	4071.5
5°	4677.6	4652.4	4605.9	4292.3	4065.7	3763.7	3515.9	3411.3	3273.9	3161.6	3080.3
7.5°	4321.3	4220.6	4073.5	3757.9	3395.9	3072.5	2797.6	2637.0	2455.0	2393.0	2282.6
10°	3939.9	3963.1	3746.3	3302.9	2865.4	2604.0	2433.6	2278.8	2114.2	2005.8	1848.9
12.5°	3818.0	3742.4	3575.9	3028.0	2654.4	2410.4	2203.3	2011.6	1837.3	1663.1	1512.0
15°	3897.3	3781.1	3548.9	2969.9	2491.7	2187.8	1928.3	1668.9	1508.2	1285.6	1128.7
17.5°	4181.9	4088.9	3777.3	3031.9	2408.5	1974.8	1589.5	1322.3	1076.5	875.1	795.8
20°	4656.3	4524.6	4133.5	3111.3	2284.6	1717.3	1289.4	960.3	728.0	642.8	598.3
22.5°	5120.9	5049.3	4555.6	3264.3	2174.2	1488.8	968.1	646.6	544.0	528.6	499.5
25°	6005.7	5790.8	5200.3	3541.1	2089.0	1273.9	729.9	520.8	460.8	449.2	453.0
27.5°	6532.3	6352.2	5796.6	3725.0	1994.2	1109.4	617.6	478.2	437.6	412.3	402.7
30°	7037.7	6828.5	6092.8	3833.4	1790.8	935.1	547.9	458.8	449.2	412.3	400.7
32.5°	7426.8	7221.6	6520.7	3996.0	1707.7	822.8	451.1	358.2	333.0	329.2	364.0
35°	8023.1	7804.3	6886.6	4085.1	1643.7	764.7	391.1	319.4	290.4	278.8	280.7
37.5°	8578.7	8429.7	7225.5	4120.0	1575.9	747.3	350.4	286.5	261.4	253.6	251.7
40°	9043.4	8710.4	7546.8	4156.7	1546.9	714.4	325.3	261.4	244.0	232.4	232.4
42.5°	9256.4	8917.5	7906.9	4135.4	1539.2	662.1	325.3	240.1	226.5	214.9	212.9
45°	9209.9	9072.5	8067.6	4125.8	1539.2	609.9	296.2	234.3	214.9	199.4	195.5
47.5°	9330.0	9149.9	8269.0	4166.4	1508.2	573.1	249.8	245.9	203.3	183.9	180.1
50°	9351.2	9386.1	8619.4	4377.5	1440.5	526.6	195.5	242.0	195.5	166.5	162.6
52°	9490.6	9273.8	8725.9	4489.8	1368.8	491.7	164.6	207.1	187.8	154.9	151.0
52.5°	9298.9	9440.3	8751.0	4530.4	1376.5	468.5	158.8	203.3	183.9	154.9	145.2
55°	9084.1	9219.5	8648.4	4617.5	1262.3	367.9	123.9	147.2	166.5	135.5	129.7
57.5°	7895.3	8032.7	7515.8	4228.4	1028.0	259.4	102.6	110.3	147.2	125.8	120.0
60°	7018.2	6919.5	6307.8	3527.5	729.9	145.2	81.3	85.2	160.7	116.1	114.2
62.5°	6414.2	6203.1	5271.9	2724.1	445.3	96.8	63.9	65.9	123.9	108.4	108.4
65°	4745.3	4509.1	3502.3	1647.6	218.7	67.8	48.4	52.3	77.5	92.9	92.9
67.5°	2708.5	2617.5	1692.1	743.4	91.0	42.6	36.8	40.6	60.0	75.5	71.7
70°	1244.9	1117.1	650.5	156.8	42.6	29.0	29.0	32.9	48.4	56.2	52.3
72.5°	364.0	344.6	158.8	25.1	17.4	17.4	19.3	25.1	36.8	42.6	38.7
75°	27.1	17.4	11.6	7.7	7.7	11.6	15.5	25.1	36.8	40.6	32.9
77.5°	1.9	3.9	1.9	1.9	5.8	11.6	17.4	30.9	48.4	50.4	36.8
80°	1.9	1.9	0.0	1.9	5.8	11.6	19.3	34.8	54.2	58.1	30.9
82.5°	0.0	0.0	0.0	1.9	7.7	15.5	23.2	36.8	50.4	62.0	32.9
85°	0.0	0.0	0.0	1.9	11.6	21.3	27.1	9.7	5.8	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°	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6
2.5°	4162.5	4112.2	4092.9	4110.3	4104.5	4098.7	4205.2	4181.9	4178.0	4212.9	4205.2
5°	3124.8	3035.8	3279.7	3181.0	3283.6	3345.5	3357.2	3363.0	3434.6	3359.1	3457.9
7.5°	2226.5	2249.7	2247.7	2313.6	2431.7	2536.3	2598.2	2549.8	2546.0	2536.3	2493.6
10°	1779.2	1738.6	1730.9	1715.4	1752.1	1841.2	1916.7	1856.7	1814.1	1872.2	1854.7
12.5°	1454.0	1397.8	1366.9	1304.9	1306.8	1366.9	1366.9	1366.9	1409.4	1442.4	1467.5
15°	1115.2	1068.7	1068.7	1006.8	993.2	995.2	1026.1	1030.0	1097.8	1117.1	1126.8
17.5°	780.2	755.0	784.1	809.3	793.8	797.7	809.3	813.2	822.8	815.1	834.4
20°	600.2	596.3	604.1	648.6	681.5	700.9	687.3	667.9	656.3	629.2	629.2
22.5°	509.2	517.0	530.5	567.3	609.9	621.5	606.0	561.5	526.6	522.8	524.7
25°	453.0	460.8	482.1	505.3	528.6	547.9	532.4	499.5	480.1	462.7	462.7
27.5°	418.2	422.1	433.7	451.1	470.5	485.9	480.1	462.7	441.4	433.7	416.3
30°	391.1	396.9	410.4	414.4	431.8	439.5	429.8	426.0	412.3	402.7	396.9
32.5°	377.5	375.6	385.3	389.1	391.1	396.9	385.3	391.1	389.1	373.7	367.9
35°	284.6	300.1	325.3	346.6	352.4	360.1	358.2	350.4	329.2	311.7	290.4
37.5°	255.6	265.3	278.8	296.2	319.4	329.2	325.3	305.9	280.7	269.1	265.3
40°	236.2	242.0	253.6	265.3	288.5	305.9	292.3	274.9	255.6	245.9	240.1
42.5°	218.7	220.7	226.5	238.2	255.6	282.7	259.4	236.2	228.4	222.6	218.7
45°	199.4	199.4	207.1	212.9	232.4	257.5	234.3	212.9	209.1	205.2	203.3
47.5°	183.9	185.9	189.7	197.5	212.9	230.4	214.9	197.5	187.8	185.9	182.0
50°	164.6	166.5	174.3	182.0	201.3	211.0	201.3	182.0	172.3	166.5	166.5
52°	149.1	154.9	162.6	178.1	191.7	207.1	195.5	174.3	162.6	156.8	153.0
52.5°	147.2	151.0	158.8	176.2	191.7	205.2	193.6	172.3	158.8	154.9	151.0
55°	131.6	137.4	151.0	172.3	189.7	205.2	189.7	170.4	151.0	141.4	137.4
57.5°	125.8	129.7	147.2	174.3	187.8	205.2	189.7	170.4	151.0	133.6	129.7
60°	120.0	127.7	147.2	168.5	185.9	207.1	191.7	168.5	147.2	125.8	125.8
62.5°	114.2	120.0	145.2	164.6	178.1	199.4	183.9	164.6	141.4	120.0	118.1
65°	98.7	108.4	127.7	137.4	153.0	172.3	156.8	143.3	123.9	106.5	104.5
67.5°	75.5	79.4	94.9	106.5	116.1	133.6	125.8	108.4	94.9	81.3	81.3
70°	52.3	56.2	67.8	73.6	83.3	92.9	87.1	73.6	63.9	56.2	54.2
72.5°	36.8	38.7	42.6	46.5	50.4	54.2	52.3	42.6	36.8	34.8	32.9
75°	29.0	32.9	34.8	32.9	30.9	29.0	29.0	25.1	21.3	19.3	19.3
77.5°	29.0	30.9	29.0	25.1	21.3	19.3	17.4	15.5	11.6	9.7	11.6
80°	25.1	25.1	25.1	21.3	19.3	17.4	15.5	13.5	11.6	9.7	9.7
82.5°	27.1	27.1	25.1	21.3	21.3	17.4	17.4	15.5	13.5	9.7	9.7
85°	0.0	0.0	0.0	3.9	9.7	17.4	17.4	15.5	13.5	11.6	11.6
87.5°	0.0	0.0	0.0	0.0	1.9	3.9	7.7	9.7	11.6	11.6	11.6
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°	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6
2.5°	4274.9	4348.4	4487.8	4627.2	4712.4	4813.0	4995.0	5091.8	5217.7	5279.6	5401.7
5°	3444.2	3618.5	3680.5	3839.2	4009.6	4179.9	4451.0	4749.2	4997.0	5167.4	5388.1
7.5°	2513.0	2553.7	2793.7	2900.3	3179.1	3488.8	3858.6	4234.2	4547.8	4826.7	4995.0
10°	1883.8	2032.9	2183.9	2387.2	2611.7	2931.2	3285.5	3699.8	4106.4	4385.2	4598.2
12.5°	1514.0	1632.1	1833.5	2052.2	2329.1	2540.2	2896.4	3306.8	3833.4	4106.4	4387.2
15°	1146.1	1297.2	1525.7	1752.1	2044.5	2267.2	2627.3	3144.2	3821.8	4197.4	4439.4
17.5°	849.9	952.5	1157.8	1411.4	1709.6	2023.2	2509.1	3126.8	3951.5	4398.8	4648.5
20°	650.5	685.3	815.1	1041.6	1364.9	1775.4	2317.5	3202.3	4334.9	4888.6	5142.2
22.5°	526.6	542.1	592.4	749.2	1062.9	1558.5	2226.5	3254.5	4766.6	5475.2	5814.0
25°	458.8	455.0	487.9	555.6	830.6	1355.3	2110.3	3452.1	5295.2	6164.4	6468.4
27.5°	418.2	418.2	433.7	482.1	689.2	1223.6	2036.7	3593.3	5827.5	6770.5	6935.0
30°	396.9	400.7	445.3	460.8	573.1	1066.8	1914.8	3736.6	6336.8	7157.7	7384.1
32.5°	367.9	352.4	342.7	381.4	482.1	925.4	1792.8	3796.6	6749.1	7632.0	7825.6
35°	282.7	274.9	286.5	315.5	414.4	805.4	1657.3	3864.4	7223.5	8181.8	8220.5
37.5°	255.6	253.6	261.4	286.5	348.5	700.9	1560.5	3847.0	7585.6	8636.8	8532.3
40°	236.2	236.2	242.0	263.3	311.7	627.3	1459.8	3831.5	7935.9	9148.0	8842.0
42.5°	220.7	220.7	230.4	244.0	296.2	578.9	1384.3	3810.2	8230.3	9461.6	9024.0
45°	199.4	205.2	220.7	234.3	300.1	546.0	1328.1	3728.9	8330.9	9457.7	8936.9
47.5°	183.9	191.7	207.1	226.5	271.1	536.3	1289.4	3657.3	8296.0	9225.3	8663.9
50°	166.5	176.2	197.5	230.4	230.4	517.0	1248.8	3721.1	8270.9	9045.3	8402.5
52°	154.9	162.6	189.7	224.5	201.3	476.3	1223.6	3845.1	8373.5	9022.1	8286.4
52.5°	153.0	158.8	183.9	220.7	191.7	468.5	1206.2	3874.1	8406.4	8964.1	8365.8
55°	135.5	143.3	168.5	172.3	156.8	385.3	1150.1	3939.9	8243.8	8849.8	8290.2
57.5°	127.7	131.6	149.1	141.4	135.5	290.4	989.4	3837.3	7322.3	7860.5	7713.3
60°	118.1	121.9	139.4	110.3	114.2	203.3	743.4	3332.0	5879.9	6549.7	6815.0
62.5°	114.2	112.3	131.6	89.1	96.8	147.2	524.7	2708.5	4530.4	5392.0	5850.8
65°	100.7	98.7	94.9	75.5	83.3	114.2	313.6	1767.6	3192.6	4079.3	4331.0
67.5°	77.5	81.3	69.7	60.0	69.7	89.1	174.3	791.9	1674.7	2447.2	2650.5
70°	54.2	58.1	56.2	52.3	62.0	73.6	100.7	271.1	693.2	1285.6	1417.2
72.5°	32.9	40.6	42.6	44.5	54.2	63.9	71.7	87.1	183.9	455.0	565.3
75°	19.3	27.1	32.9	38.7	44.5	54.2	60.0	62.0	63.9	85.2	137.4
77.5°	13.5	19.3	29.0	36.8	44.5	54.2	63.9	67.8	63.9	60.0	63.9
80°	11.6	19.3	27.1	34.8	46.5	56.2	63.9	63.9	62.0	54.2	58.1
82.5°	11.6	19.3	29.0	36.8	44.5	54.2	62.0	63.9	58.1	54.2	56.2
85°	13.5	21.3	30.9	38.7	48.4	44.5	40.6	32.9	30.9	25.1	27.1
87.5°	13.5	19.3	19.3	21.3	23.2	23.2	23.2	21.3	17.4	15.5	15.5
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: P650803

CATALOG NUMBER: GALN-SA3C-840-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6
2.5°	5407.5	5562.4	5556.5	5560.4	5537.1	5380.4	5304.9	5113.2	5167.4	5144.1
5°	5614.6	5767.6	5899.2	5883.7	5705.6	5492.7	5177.0	4878.9	4797.6	4677.6
7.5°	5407.5	5775.3	5897.3	5879.9	5616.5	5343.5	4840.2	4542.0	4400.7	4321.3
10°	5078.3	5504.3	5655.3	5686.3	5508.1	5093.8	4631.1	4152.9	4077.3	3939.9
12.5°	4890.5	5200.3	5293.3	5376.4	5314.5	5004.7	4472.4	4013.5	3909.0	3818.0
15°	4737.6	4921.5	4960.2	5055.1	5091.8	4925.4	4555.6	4164.5	3907.0	3897.3
17.5°	4878.9	4803.4	4662.1	4691.1	4807.2	4927.3	4770.5	4462.7	4212.9	4181.9
20°	5113.2	4780.2	4460.7	4532.3	4629.1	4997.0	5095.7	4878.9	4735.7	4656.3
22.5°	5382.3	4820.8	4396.8	4431.6	4615.6	5153.8	5622.3	5502.3	5235.1	5120.9
25°	5879.9	4933.1	4447.1	4470.4	4722.0	5372.6	6098.6	6187.7	6029.0	6005.7
27.5°	6365.8	5223.5	4557.5	4505.2	4776.3	5585.6	6387.1	6865.3	6586.5	6532.3
30°	6613.6	5459.7	4722.0	4633.0	5000.8	5715.3	6561.3	7306.7	7062.8	7037.7
32.5°	6993.1	5674.6	4849.9	4735.7	5126.7	5876.0	6886.6	7788.8	7552.6	7426.8
35°	7151.9	5908.9	5130.6	4997.0	5486.9	6100.5	7053.1	8218.6	8145.1	8023.1
37.5°	7457.7	6160.6	5461.6	5453.9	5922.4	6392.9	7353.2	8803.3	8789.8	8578.7
40°	7482.9	6435.5	5984.4	6228.4	6596.2	6902.1	7616.5	8966.0	9186.7	9043.4
42.5°	7521.7	6917.6	6888.5	7089.9	7405.5	7339.7	7626.2	9004.7	9341.6	9256.4
45°	7539.1	7399.7	7808.2	8179.9	8311.5	7912.7	7535.2	8931.1	9422.9	9209.9
47.5°	7399.7	7814.0	8551.6	9269.9	9308.6	8265.1	7496.5	8855.6	9471.3	9330.0
50°	7419.0	8073.4	9194.4	9837.2	9695.8	8576.8	7436.5	8809.1	9446.1	9351.2
52°	7372.5	8079.2	9285.4	9825.6	9726.8	8404.4	7333.9	8631.0	9422.9	9490.6
52.5°	7424.9	8044.4	9190.5	9833.3	9705.6	8489.6	7320.3	8729.7	9436.4	9298.9
55°	7244.8	7630.1	8634.9	8907.9	8888.5	7705.6	6904.0	8402.5	9082.1	9084.1
57.5°	6547.8	6613.6	6772.4	6766.6	6677.5	6058.0	5905.0	7726.9	8096.6	7895.3
60°	5769.5	4842.1	4414.2	4240.0	4141.3	4040.6	5223.5	7068.6	7103.4	7018.2
62.5°	4985.4	3357.2	2787.9	2739.6	2762.8	3130.6	5049.3	6807.2	6598.1	6414.2
65°	4023.2	2447.2	2025.1	1961.2	2187.8	2584.6	4087.0	5219.7	4898.2	4745.3
67.5°	2526.5	1785.0	1368.8	1248.8	1521.8	1779.2	2685.3	3279.7	2919.6	2708.5
70°	1498.5	997.1	619.6	555.6	625.4	948.6	1504.3	1636.0	1353.3	1244.9
72.5°	590.5	365.9	172.3	147.2	153.0	333.0	553.7	540.2	408.5	364.0
75°	158.8	110.3	60.0	48.4	40.6	62.0	89.1	58.1	21.3	27.1
77.5°	73.6	65.9	52.3	40.6	30.9	23.2	11.6	3.9	3.9	1.9
80°	63.9	56.2	48.4	40.6	30.9	19.3	9.7	1.9	1.9	1.9
82.5°	60.0	52.3	44.5	36.8	29.0	19.3	9.7	1.9	0.0	0.0
85°	25.1	32.9	36.8	34.8	30.9	19.3	9.7	1.9	0.0	0.0
87.5°	13.5	11.6	9.7	7.7	5.8	3.9	3.9	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)