

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: P650915

Luminaire Tested: **GALN-SA5C-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650915
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-SA5C-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 21263.8 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

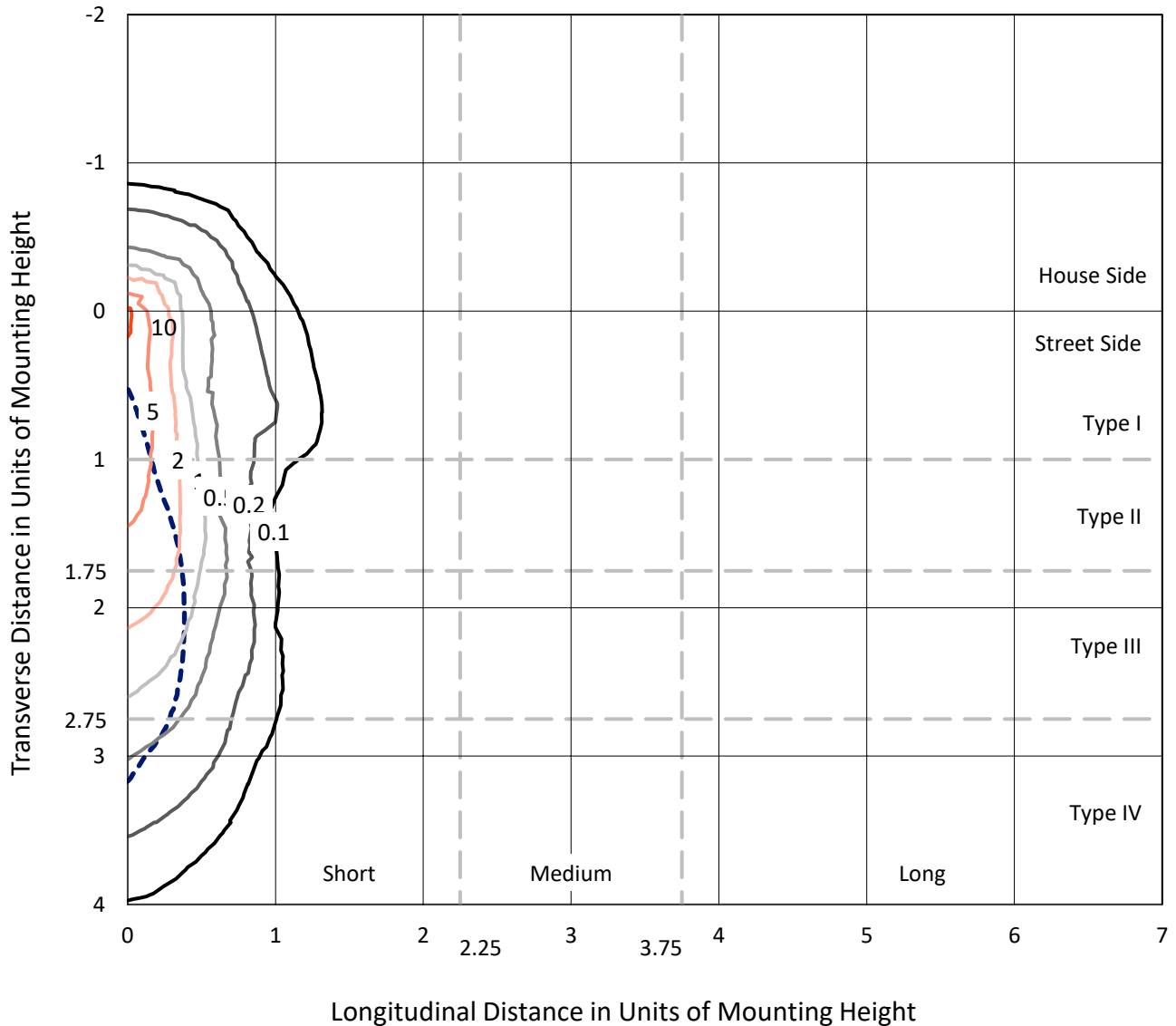
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

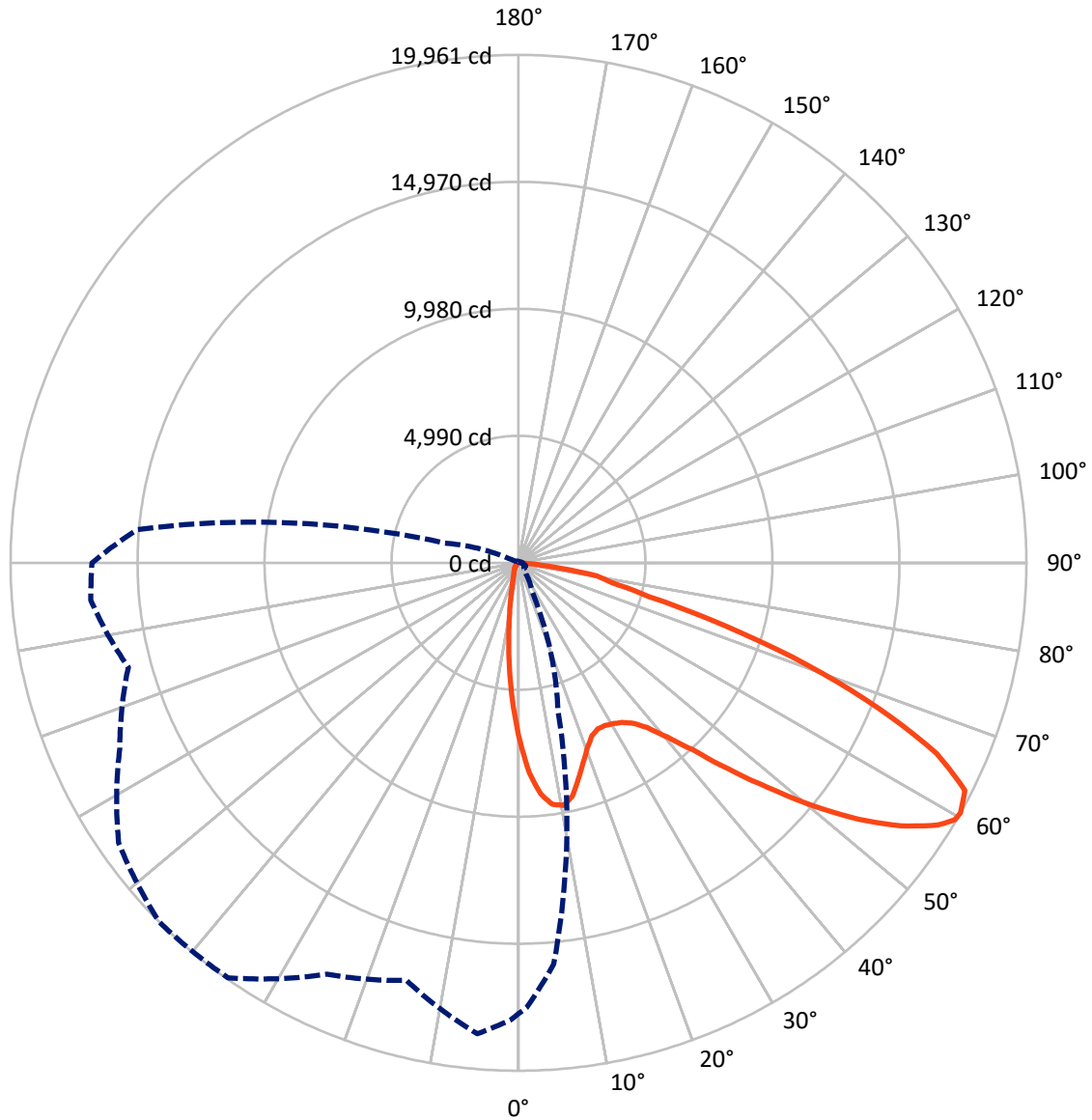
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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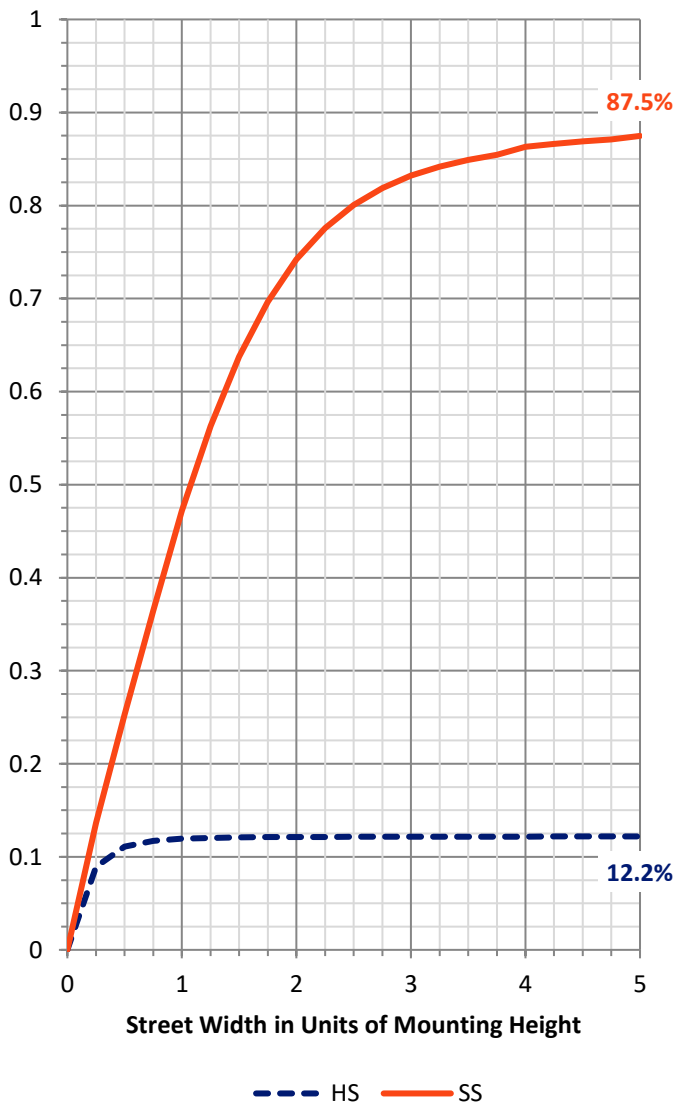
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2622.7	0.0	2622.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18641.2	0.0	18641.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	21263.8	0.0	21263.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.7	2.5
10°-20°	1038.1	4.9
20°-30°	1522.2	7.2
30°-40°	2263.7	10.6
40°-50°	3294.4	15.5
50°-60°	4750.8	22.3
60°-70°	5225.4	24.6
70°-80°	2340.6	11.0
80°-90°	305.8	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°	21263.8	100.0
0°-180°	21263.8	100.0



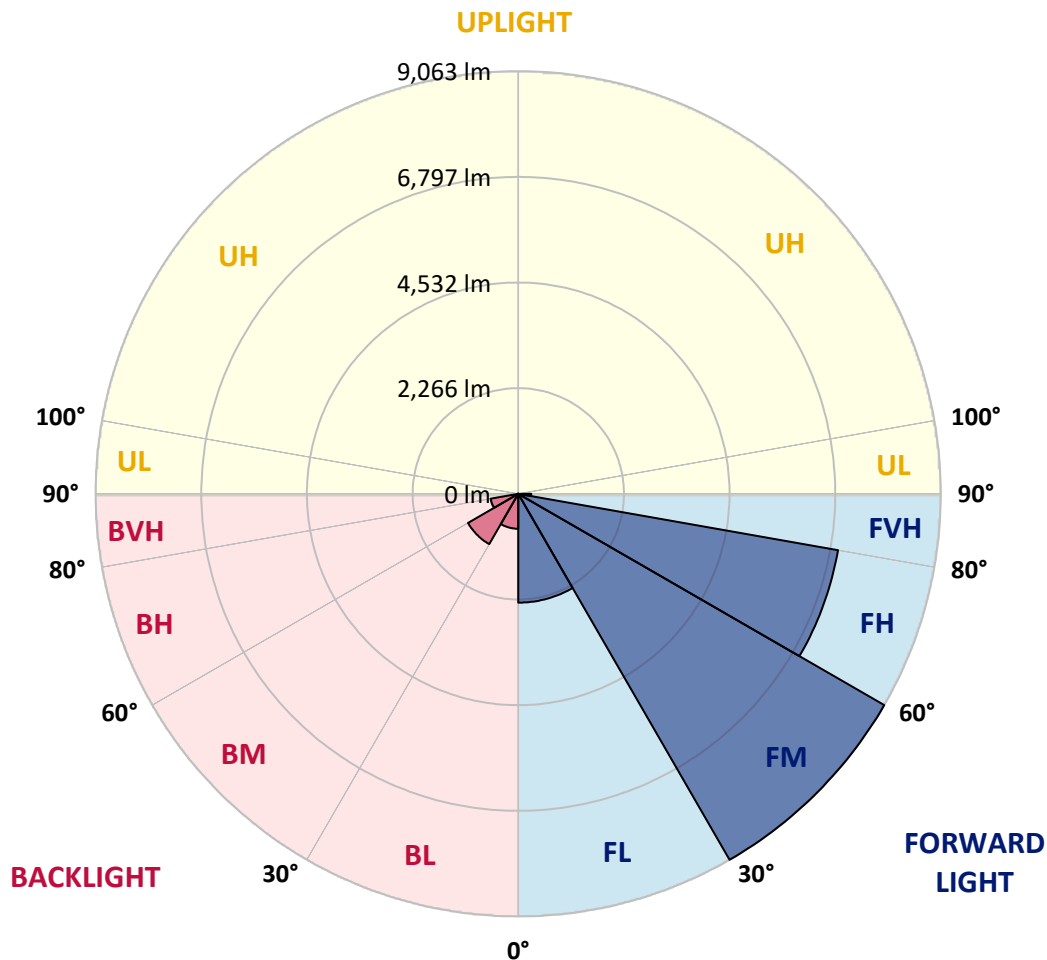
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2333.6	11.0			
FM (30°-60°)	9063.3	42.6			
FH (60°-80°)	6964.5	32.8			G3/7500
FVH (80°-90°)	279.7	1.3			G3/500
BL (0°-30°)	749.4	3.5	B2/1000		
BM (30°-60°)	1245.7	5.9	B2/2500		
BH (60°-80°)	601.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0
2.5°	7726.3	7692.4	7614.8	7378.8	7173.5	6905.2	6633.6	6420.3	6289.3	6048.5	5938.6
5°	7485.4	7501.6	7276.9	6792.0	6252.2	5883.6	5481.1	5161.0	4808.8	4585.6	4351.2
7.5°	6856.7	6824.4	6580.2	5904.7	5248.3	4715.0	4205.8	3792.0	3531.8	3323.3	3148.7
10°	6318.4	6294.1	5982.2	5112.6	4407.8	4008.6	3664.3	3302.3	3022.6	2717.1	2473.0
12.5°	5980.6	5925.6	5566.8	4658.4	4084.6	3712.8	3337.8	2961.2	2574.9	2266.2	1970.4
15°	5867.4	5788.3	5389.0	4501.6	3877.7	3405.7	2935.3	2502.1	2057.7	1716.6	1493.5
17.5°	6072.7	5941.8	5516.7	4474.1	3630.3	3004.8	2426.2	1862.1	1399.8	1139.6	1002.1
20°	6543.1	6392.8	5840.0	4446.6	3355.6	2555.5	1844.3	1315.7	968.2	825.9	750.0
22.5°	7241.3	7034.5	6318.4	4490.3	3101.9	2117.5	1331.9	929.4	769.4	680.5	627.1
25°	8080.2	7907.3	6924.5	4645.4	2901.4	1773.2	1029.6	759.7	648.2	593.2	552.8
27.5°	9000.0	8723.6	7708.5	4831.4	2718.8	1506.5	903.6	678.9	577.0	527.0	505.9
30°	9654.6	9439.6	8364.8	4960.6	2490.9	1306.1	825.9	669.2	578.7	518.9	480.0
32.5°	10301.2	10026.4	8914.3	5020.4	2324.4	1167.1	714.4	583.5	507.5	476.8	438.1
35°	10993.0	10705.3	9462.3	4988.1	2199.9	1074.9	648.2	520.5	434.8	383.1	344.3
37.5°	11692.8	11389.0	10007.0	4871.7	2122.3	1037.7	596.4	494.6	410.6	357.3	315.2
40°	12523.7	12118.0	10517.8	4776.4	2041.4	1018.3	562.5	478.4	392.7	336.2	294.2
42.5°	13202.5	12816.3	11001.0	4726.3	1986.5	973.0	562.5	465.5	381.5	318.4	274.8
45°	13845.9	13445.0	11523.1	4766.7	1963.9	916.5	568.9	463.9	373.4	305.5	261.9
47.5°	14384.1	14036.6	12059.8	4918.7	1934.8	855.0	535.0	486.5	368.5	294.2	248.9
50°	15019.3	14683.2	12769.4	5225.7	1883.1	793.7	493.0	523.7	366.9	284.5	237.6
52.5°	15914.8	15551.2	13748.9	5574.9	1800.7	699.9	454.2	518.9	360.5	268.3	226.3
55°	17009.1	16715.0	14883.6	5993.6	1687.5	594.8	392.7	460.7	341.0	240.9	206.9
57.5°	17710.6	17460.1	15733.8	6174.5	1514.6	486.5	345.9	386.4	311.9	215.0	184.3
59°	17793.0	17566.8	15911.6	6114.7	1401.4	444.5	323.3	331.4	303.9	200.4	171.3
60°	17723.6	17489.2	15840.5	5998.3	1296.3	415.4	303.9	294.2	305.5	192.3	161.6
62.5°	17277.4	16876.6	15150.3	5408.4	1133.1	381.5	270.0	240.9	270.0	173.0	143.9
65°	16415.9	15814.6	13784.5	4577.6	1068.4	362.1	229.5	202.0	205.3	152.0	124.5
67.5°	14911.1	14153.0	11966.0	3719.3	1040.9	363.6	193.9	181.1	158.4	129.3	109.9
70°	12531.7	11775.3	9601.3	3059.8	1028.0	363.6	164.8	155.2	132.5	108.3	95.4
72.5°	8880.4	8065.7	6476.8	2403.6	926.2	362.1	140.6	140.6	108.3	90.5	77.6
75°	5017.2	5023.7	4071.6	1700.4	769.4	299.1	113.1	111.5	79.2	69.5	58.2
77.5°	2924.0	2872.3	2744.6	730.6	357.3	135.7	79.2	67.9	54.9	50.1	42.0
80°	1503.2	1236.5	1204.2	265.1	127.7	85.7	54.9	38.8	35.6	32.3	29.1
82.5°	444.5	446.2	397.6	106.6	71.1	56.6	27.5	21.0	19.4	17.7	17.7
85°	30.7	19.4	22.6	32.3	43.6	22.6	1.6	4.9	4.9	6.5	8.1
87.5°	3.2	1.6	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°	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0
2.5°	5817.4	5888.4	5755.9	5759.2	5649.2	5684.8	5555.5	5597.5	5521.5	5579.7	5751.1
5°	4377.2	4393.3	4286.7	4252.7	4268.8	4335.1	4361.0	4243.0	4293.1	4194.5	4188.0
7.5°	3084.0	3103.5	3042.0	3033.9	3150.3	3122.8	3172.9	3051.7	2936.9	2987.1	2894.9
10°	2395.5	2314.7	2188.5	2153.0	2130.4	2145.0	2145.0	2035.1	2018.8	1975.2	2041.4
12.5°	1891.2	1792.6	1672.9	1511.3	1470.9	1467.6	1407.8	1310.9	1280.2	1243.0	1297.9
15°	1373.9	1333.5	1233.3	1142.8	1050.7	1032.8	935.9	856.6	751.6	737.1	732.3
17.5°	966.6	906.8	905.2	853.4	800.1	764.6	674.1	583.5	543.1	538.2	538.2
20°	724.1	703.2	669.2	662.7	646.6	606.1	525.3	476.8	457.4	459.0	465.5
22.5°	609.4	594.8	564.1	549.6	543.1	507.5	447.7	415.4	405.7	405.7	407.3
25°	544.7	531.8	497.9	475.2	467.1	441.3	394.4	370.1	362.1	362.1	362.1
27.5°	496.2	480.0	444.5	425.1	410.6	381.5	352.4	328.2	320.0	320.0	321.7
30°	462.3	444.5	412.2	386.4	363.6	337.8	313.6	292.6	282.8	281.2	282.8
32.5°	417.1	400.8	368.5	352.4	326.5	295.8	276.4	257.0	247.3	248.9	247.3
35°	324.9	320.0	297.4	302.3	287.7	261.9	244.1	223.0	211.8	210.2	213.4
37.5°	295.8	276.4	250.5	252.1	247.3	237.6	208.5	185.9	177.8	177.8	179.4
40°	273.2	253.7	224.7	210.2	211.8	211.8	181.1	156.8	148.7	147.1	150.3
42.5°	253.7	234.4	202.0	177.8	171.3	179.4	153.6	129.3	121.2	118.0	121.2
45°	240.9	219.8	182.7	155.2	135.7	145.5	126.1	106.6	97.0	97.0	95.4
47.5°	227.9	208.5	168.1	134.1	113.1	108.3	103.4	85.7	75.9	74.3	75.9
50°	216.6	197.2	152.0	116.4	95.4	84.0	84.0	67.9	61.4	58.2	59.8
52.5°	205.3	184.3	137.4	103.4	82.4	67.9	59.8	54.9	50.1	48.5	50.1
55°	189.1	168.1	122.9	88.9	71.1	56.6	46.8	45.2	42.0	38.8	42.0
57.5°	169.7	150.3	108.3	75.9	56.6	43.6	38.8	37.2	34.0	32.3	32.3
59°	158.4	140.6	100.2	66.3	50.1	38.8	35.6	34.0	30.7	27.5	29.1
60°	152.0	137.4	95.4	61.4	45.2	35.6	32.3	30.7	27.5	25.9	27.5
62.5°	134.1	122.9	84.0	50.1	35.6	25.9	22.6	24.2	22.6	21.0	22.6
65°	118.0	108.3	71.1	38.8	27.5	17.7	16.1	21.0	19.4	17.7	19.4
67.5°	105.0	93.8	59.8	29.1	19.4	9.7	11.4	17.7	17.7	16.1	17.7
70°	90.5	80.8	48.5	21.0	9.7	4.9	8.1	13.0	16.1	14.5	16.1
72.5°	74.3	63.1	37.2	14.5	4.9	0.0	4.9	11.4	16.1	14.5	16.1
75°	58.2	46.8	27.5	8.1	0.0	0.0	1.6	9.7	16.1	14.5	16.1
77.5°	42.0	34.0	16.1	1.6	0.0	0.0	1.6	9.7	16.1	14.5	16.1
80°	27.5	24.2	6.5	0.0	0.0	0.0	1.6	9.7	16.1	16.1	17.7
82.5°	17.7	13.0	0.0	0.0	0.0	0.0	3.2	13.0	17.7	19.4	19.4
85°	8.1	0.0	0.0	0.0	0.0	0.0	6.5	16.1	21.0	21.0	21.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	11.4	19.4	24.2	24.2	24.2
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°	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0
2.5°	5780.2	5882.0	6025.8	6247.3	6426.8	6709.6	6926.1	7222.0	7521.0	7611.6	7752.2
5°	4254.3	4385.2	4711.7	5009.2	5196.6	5794.7	6172.9	6769.4	7304.4	7561.4	7841.1
7.5°	2954.8	3109.9	3358.9	3774.2	4168.7	4655.2	5266.2	5948.2	6732.2	7099.1	7493.6
10°	2073.8	2267.8	2618.5	2959.6	3455.8	3918.1	4521.0	5274.2	6139.0	6572.2	7066.8
12.5°	1309.3	1482.2	1946.2	2329.2	2948.3	3484.9	4040.9	4723.1	5725.2	6169.7	6688.6
15°	748.4	893.8	1110.5	1601.9	2288.8	2998.4	3691.8	4483.8	5513.4	6061.4	6622.3
17.5°	557.7	596.4	693.4	971.4	1597.0	2426.2	3370.1	4411.1	5657.3	6300.6	6940.7
20°	468.8	494.6	539.8	649.8	1018.3	1868.5	3056.5	4424.0	6122.8	6931.0	7538.8
22.5°	420.2	436.4	473.6	544.7	695.0	1361.0	2689.7	4500.0	6687.0	7705.2	8406.8
25°	368.5	389.6	421.8	483.3	578.7	943.9	2327.6	4669.7	7477.3	8688.0	9347.5
27.5°	328.2	347.5	379.9	436.4	507.5	720.9	1905.7	4815.1	8311.4	9677.2	10217.1
30°	287.7	307.1	339.4	384.7	449.3	583.5	1451.5	4900.8	9121.2	10419.1	10834.6
32.5°	253.7	270.0	300.7	341.0	394.4	494.6	1144.4	4811.9	9740.3	11093.2	11371.2
35°	219.8	239.3	265.1	302.3	349.1	421.8	952.0	4504.8	10272.1	11786.6	11886.9
37.5°	184.3	206.9	234.4	268.3	305.5	388.0	764.6	4165.4	10841.0	12651.4	12486.5
40°	155.2	176.2	202.0	239.3	273.2	355.6	588.4	3803.3	11455.3	13462.8	13141.1
42.5°	126.1	148.7	179.4	213.4	270.0	310.3	455.8	3428.3	12006.5	14169.2	13732.8
45°	100.2	119.6	152.0	195.6	268.3	266.7	352.4	3058.2	12421.8	14673.4	14174.0
47.5°	79.2	95.4	127.7	190.7	247.3	226.3	282.8	2828.6	12858.3	15127.7	14511.8
50°	63.1	79.2	109.9	198.8	216.6	193.9	237.6	2865.9	13280.1	15358.8	14650.8
52.5°	53.3	69.5	95.4	156.8	166.5	169.7	208.5	3037.2	13824.9	15606.1	14927.2
55°	46.8	61.4	80.8	109.9	129.3	152.0	190.7	3161.7	14553.8	16136.3	15536.6
57.5°	37.2	53.3	72.7	93.8	106.6	132.5	176.2	3171.3	15213.4	16816.8	16346.4
59°	34.0	48.5	67.9	88.9	95.4	119.6	166.5	3088.9	15237.6	16918.6	16718.2
60°	30.7	46.8	64.7	82.4	90.5	113.1	158.4	2993.5	15017.7	16757.0	16871.7
62.5°	25.9	40.4	56.6	66.3	77.6	93.8	137.4	2647.6	13952.5	16024.8	16587.3
65°	22.6	35.6	48.5	54.9	64.7	80.8	121.2	2119.1	12775.8	15032.3	15772.6
67.5°	21.0	32.3	42.0	46.8	56.6	74.3	108.3	1496.7	11251.6	13773.1	14549.0
70°	19.4	30.7	37.2	43.6	50.1	63.1	92.2	872.9	8667.0	11565.2	12384.7
72.5°	19.4	29.1	32.3	37.2	43.6	56.6	85.7	472.0	5925.6	8822.2	9880.9
75°	19.4	27.5	29.1	32.3	38.8	51.7	75.9	247.3	3830.8	6129.3	7564.6
77.5°	19.4	25.9	29.1	30.7	37.2	45.2	66.3	155.2	2552.3	4293.1	5112.6
80°	21.0	25.9	27.5	30.7	35.6	42.0	54.9	103.4	1500.0	2583.0	3111.5
82.5°	22.6	25.9	29.1	32.3	37.2	40.4	48.5	64.7	691.8	1708.5	1933.2
85°	24.2	27.5	30.7	34.0	38.8	40.4	45.2	46.8	113.1	771.0	1042.6
87.5°	25.9	29.1	32.3	35.6	42.0	42.0	42.0	42.0	38.8	82.4	210.2
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: P650915

CATALOG NUMBER: GALN-SA5C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0	7028.0
2.5°	7930.0	8112.6	8240.3	8272.6	8180.5	8138.4	8022.0	7841.1	7731.1	7726.3
5°	8356.7	8785.0	9082.4	9132.5	8954.7	8654.1	8296.9	7836.2	7566.2	7485.4
7.5°	8283.9	9033.9	9512.4	9581.8	9282.9	8709.1	8017.3	7275.3	6981.1	6856.7
10°	7984.9	8899.8	9583.5	9693.5	9294.1	8485.9	7606.7	6779.0	6413.8	6318.4
12.5°	7729.5	8654.1	9261.8	9413.8	9111.5	8305.0	7360.9	6460.6	6069.5	5980.6
15°	7617.9	8363.2	8734.9	8812.5	8762.4	8191.8	7335.1	6412.2	5964.5	5867.4
17.5°	7729.5	8115.8	8162.7	8241.9	8353.4	8180.5	7584.1	6675.6	6192.4	6072.7
20°	8022.0	7900.9	7706.9	7740.8	7996.2	8227.3	8026.9	7259.2	6670.8	6543.1
22.5°	8519.9	7847.5	7407.9	7378.8	7702.0	8384.2	8676.7	8049.5	7367.4	7241.3
25°	9130.9	7981.7	7297.9	7234.9	7587.2	8613.7	9383.0	9017.8	8272.6	8080.2
27.5°	9796.9	8259.7	7297.9	7236.6	7577.6	8817.3	9987.5	9874.4	9210.1	9000.0
30°	10162.1	8489.2	7403.0	7333.5	7697.2	8935.3	10310.8	10635.8	9914.9	9654.6
32.5°	10488.7	8807.6	7608.3	7477.3	7947.7	9109.9	10600.2	11282.3	10475.7	10301.2
35°	10789.3	9148.7	7891.2	7739.2	8277.5	9349.1	10920.2	11961.2	11256.4	10993.0
37.5°	11120.7	9544.7	8332.5	8203.1	8828.6	9814.6	11300.1	12853.4	12024.2	11692.8
40°	11481.1	10003.8	9058.2	9003.2	9704.7	10341.6	11780.1	13805.4	12900.3	12523.7
42.5°	11848.0	10532.3	9947.2	10037.7	10697.2	11080.3	12273.1	14537.7	13618.0	13202.5
45°	12181.0	11207.9	11102.9	11550.6	11854.5	11801.2	12638.5	15053.3	14243.5	13845.9
47.5°	12601.3	12192.3	12501.0	13191.3	13199.3	12585.1	12914.8	15475.2	14781.8	14384.1
50°	13071.7	13354.5	14306.6	15009.7	14820.5	13356.1	13238.1	15974.6	15337.8	15019.3
52.5°	13616.4	14655.7	15974.6	16755.3	16314.1	14196.7	13776.3	16514.5	16220.4	15914.8
55°	14250.0	15543.1	17637.9	18260.2	17815.7	15240.9	14594.3	17246.7	17217.6	17009.1
57.5°	14966.0	16480.6	18601.2	19443.4	19047.4	16466.0	15737.0	17936.9	17827.0	17710.6
59°	15531.8	16962.2	19026.4	19899.2	19660.0	17324.3	16504.8	18366.9	17967.6	17793.0
60°	15874.5	17288.8	19183.1	19960.6	19905.7	17835.1	16991.3	18577.0	17966.0	17723.6
62.5°	16891.1	17859.3	19123.3	19687.5	19902.4	18814.6	18418.6	18808.1	17633.1	17277.4
65°	17253.2	17670.3	18132.5	18063.0	18247.3	18764.5	19330.2	18554.4	16921.8	16415.9
67.5°	16548.4	15596.4	15759.7	15295.8	15205.3	16682.6	18960.1	17313.0	15530.2	14911.1
70°	13949.3	11948.3	11865.8	12079.2	11494.0	13506.5	17025.3	14922.4	13233.3	12531.7
72.5°	10980.0	8444.0	7748.9	8534.5	8516.7	10304.4	14143.3	10588.9	8940.2	8880.4
75°	8634.7	5878.8	5159.5	5287.2	5532.9	7459.6	11264.5	6724.1	5505.4	5017.2
77.5°	5796.3	4165.4	3885.8	3729.0	3994.1	4789.3	7126.6	3646.6	3087.3	2924.0
80°	3341.0	3025.8	3436.4	3119.6	3261.8	3017.8	3544.7	1672.9	1388.5	1503.2
82.5°	2174.0	1723.0	1836.2	1364.2	1865.3	1881.5	1138.0	494.6	418.6	444.5
85°	1359.4	808.2	454.2	323.3	643.3	1183.2	355.6	30.7	35.6	30.7
87.5°	352.4	134.1	56.6	84.0	103.4	92.2	82.4	4.9	1.6	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)