

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: P651901

Luminaire Tested: **GALN-SA5A-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13831.9 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

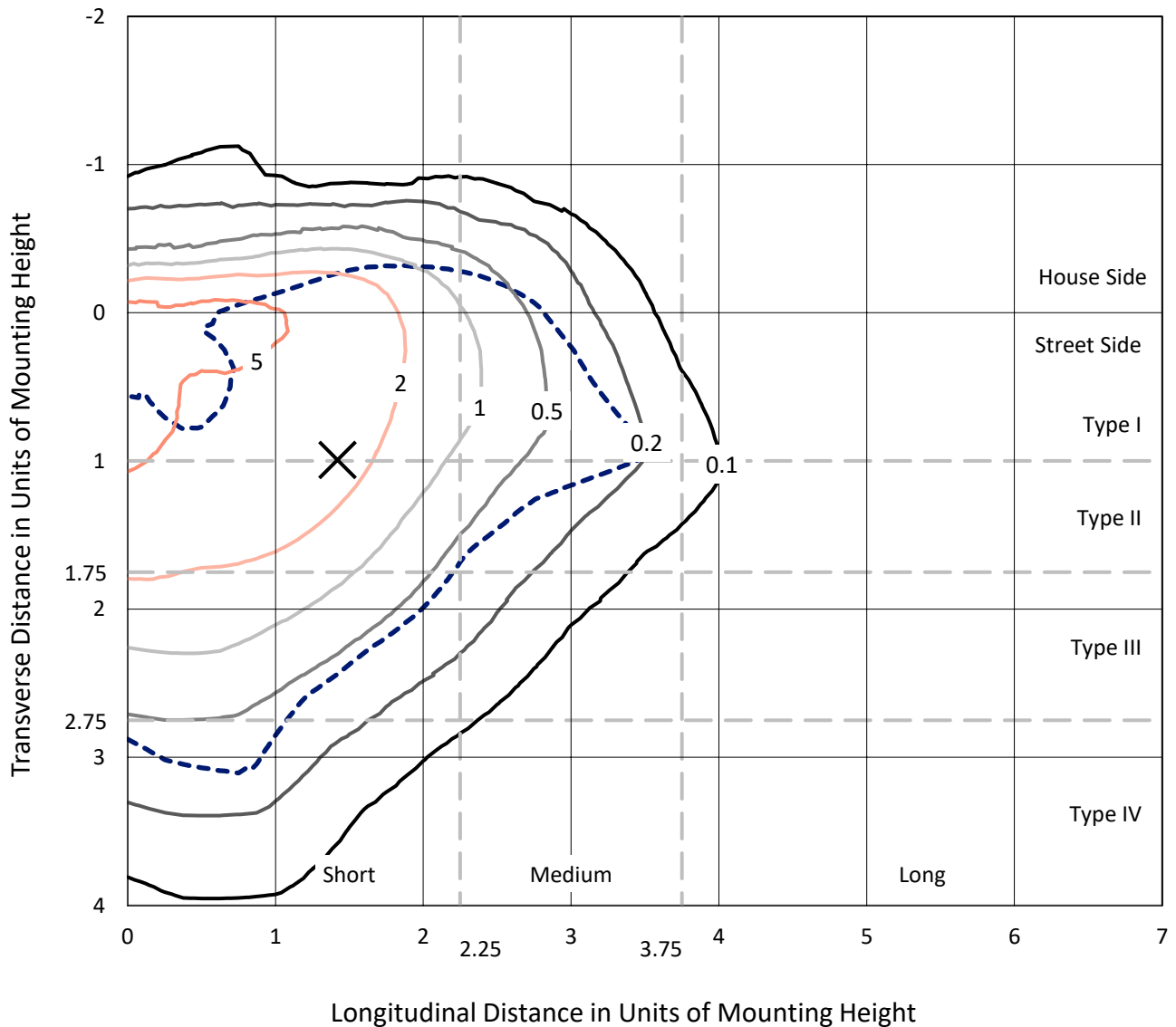
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651901
 CATALOG NUMBER: GALN-SA5A-840-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

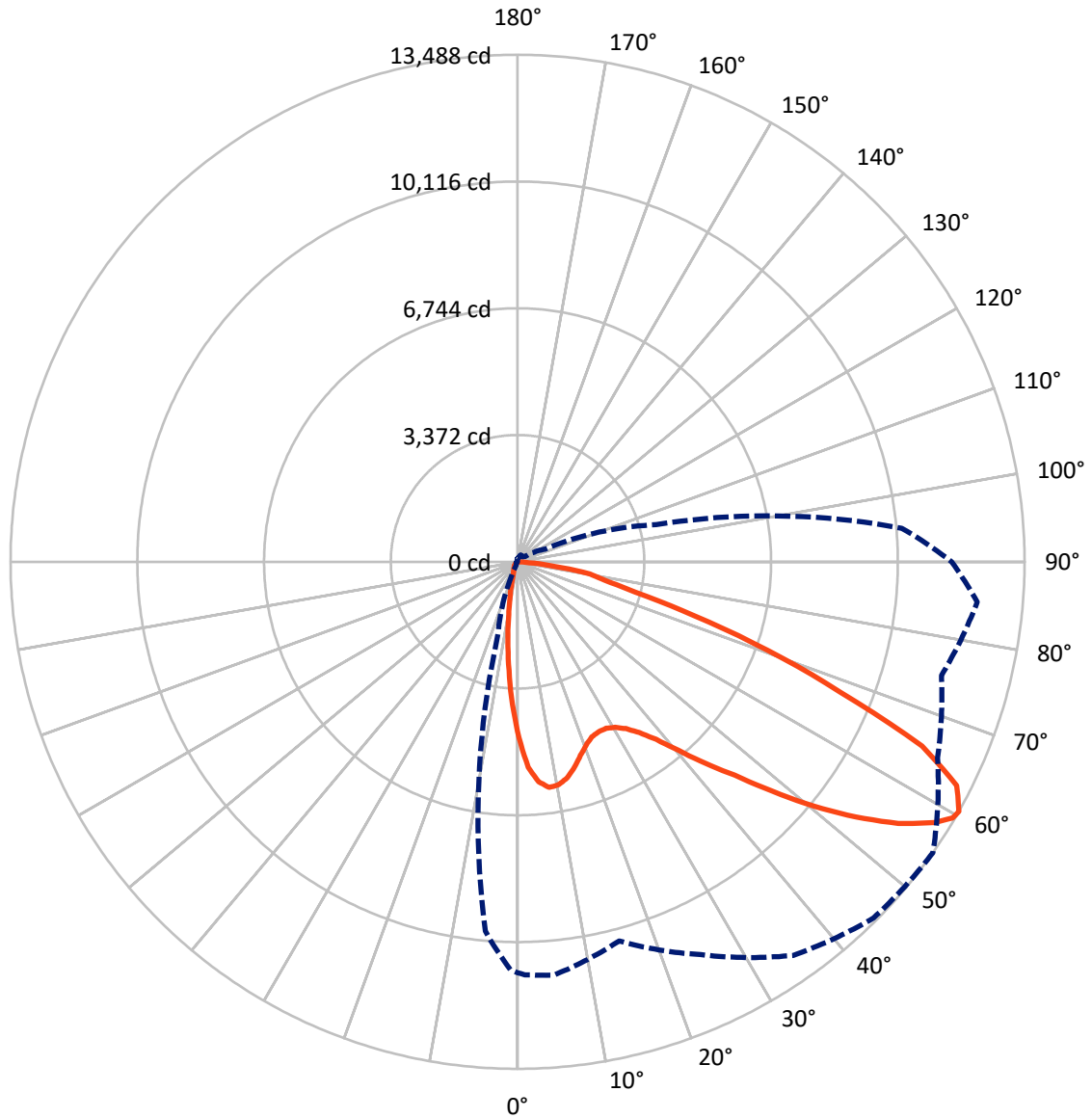
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

REPORT NUMBER: P651901
CATALOG NUMBER: GALN-SA5A-840-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P651901
 CATALOG NUMBER: GALN-SA5A-840-U-SLL-HSS

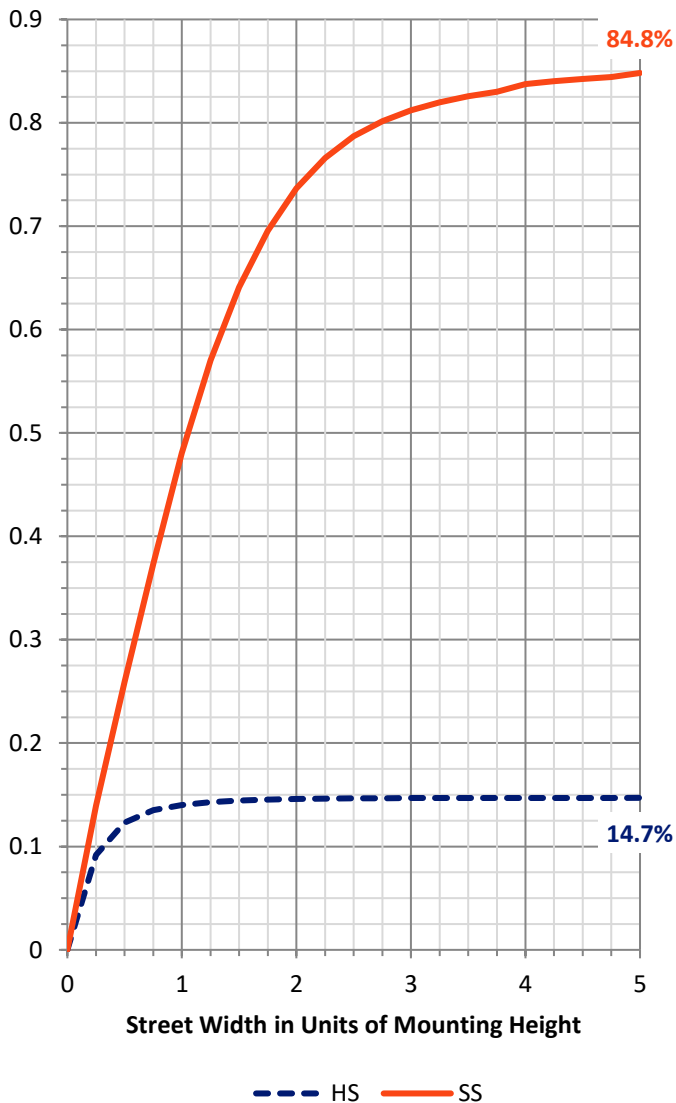
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2052.8	0.0	2052.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	11779.1	0.0	11779.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	13831.9	0.0	13831.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	2.5
10°-20°	683.0	4.9
20°-30°	1010.9	7.3
30°-40°	1506.9	10.9
40°-50°	2206.8	16.0
50°-60°	3186.0	23.0
60°-70°	3351.5	24.2
70°-80°	1378.7	10.0
80°-90°	161.5	1.2
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°	13831.9	100.0
0°-180°	13831.9	100.0



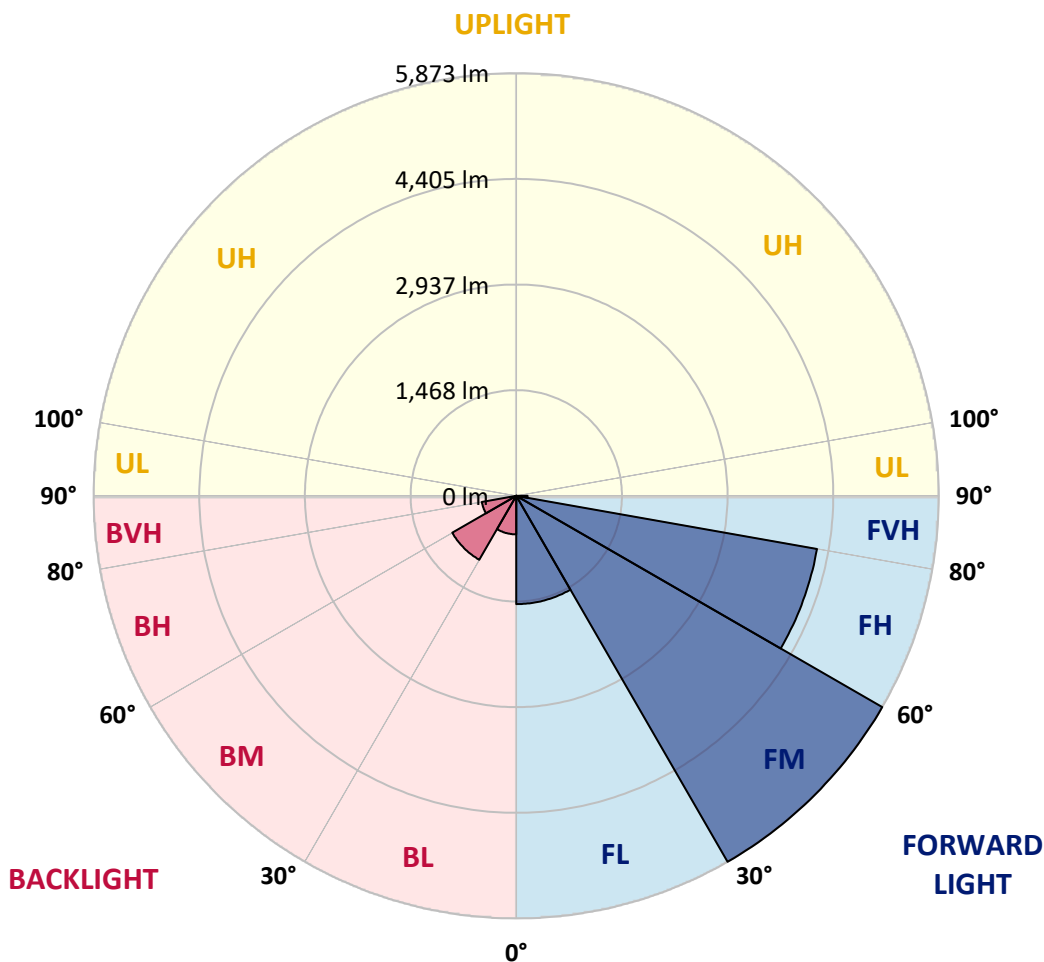
REPORT NUMBER: P651901
 CATALOG NUMBER: GALN-SA5A-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.1	10.9			
FM (30°-60°)	5873.1	42.5			
FH (60°-80°)	4244.3	30.7			G2/5000
FVH (80°-90°)	156.7	1.1			G2/225
BL (0°-30°)	535.6	3.9	B2/1000		
BM (30°-60°)	1026.6	7.4	B2/2500		
BH (60°-80°)	485.9	3.5	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P651901

CATALOG NUMBER: GALN-SA5A-840-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4
2.5°	5116.7	5108.2	5183.8	5307.4	5431.9	5496.9	5484.1	5478.8	5375.5	5299.9	5141.3
5°	5106.1	5149.8	5285.0	5619.3	5872.7	5995.2	6031.3	5879.1	5677.8	5386.1	5026.2
7.5°	4800.6	4854.8	5075.3	5598.0	6048.4	6314.5	6304.9	6061.1	5645.9	5194.5	4681.3
10°	4421.6	4485.4	4744.2	5378.7	5963.2	6314.5	6333.7	6024.9	5508.6	4929.4	4389.6
12.5°	4154.3	4229.9	4516.3	5174.3	5743.9	6089.8	6112.2	5888.7	5405.3	4827.2	4231.0
15°	4063.8	4135.1	4425.8	5071.0	5510.7	5697.0	5691.7	5668.3	5364.8	4851.6	4239.5
17.5°	4219.3	4277.8	4605.7	5117.8	5292.4	5273.2	5301.0	5413.8	5373.3	5057.2	4507.8
20°	4620.6	4680.2	5032.6	5261.5	5125.3	5004.0	5016.7	5205.1	5452.1	5443.6	4927.3
22.5°	5173.2	5274.3	5593.7	5540.5	5102.9	4836.8	4810.2	5055.0	5586.3	5888.7	5493.7
25°	5872.7	5974.9	6224.0	5985.6	5212.6	4797.4	4772.8	5009.2	5749.2	6323.1	6131.4
27.5°	6460.4	6538.1	6786.2	6418.8	5374.4	4814.4	4773.9	5015.6	5881.2	6692.5	6669.0
30°	6930.9	6988.5	7134.3	6621.1	5513.8	4888.9	4842.1	5109.3	5939.7	6872.4	7104.5
32.5°	7310.0	7406.9	7452.6	6837.2	5714.0	5029.4	4949.6	5289.2	6082.4	7094.9	7561.3
35°	7743.3	7855.1	7796.5	7043.8	5978.1	5248.8	5150.9	5581.0	6298.6	7300.4	8091.4
37.5°	8292.7	8421.5	8192.6	7261.0	6257.0	5578.9	5533.0	5990.9	6626.5	7594.2	8659.9
40°	8861.2	8935.7	8576.9	7525.0	6599.8	6059.0	6102.6	6599.8	7055.5	7946.6	9264.7
42.5°	9305.2	9375.4	8972.0	7746.5	6950.1	6628.6	6810.7	7334.4	7547.4	8307.6	9716.1
45°	9644.8	9704.4	9245.5	7988.2	7422.8	7453.7	7797.6	8091.4	8040.3	8527.9	10064.2
47.5°	9908.8	9960.0	9456.4	8247.9	8130.9	8463.0	8988.9	9113.5	8551.4	8766.4	10379.4
50°	10017.4	10032.3	9522.3	8579.0	8934.6	9749.1	10297.5	10221.9	9137.0	9031.5	10714.8
52.5°	10159.0	10155.8	9710.8	8894.2	9690.6	10898.9	11446.2	11274.8	9799.2	9428.6	11091.7
55°	10530.6	10534.9	10114.3	9341.3	10334.7	11827.3	12412.9	12288.4	10497.6	10099.4	11531.4
57.5°	10982.0	10998.0	10688.2	9864.1	10950.1	12500.2	13134.7	13086.8	11442.0	10845.7	11946.6
59°	11040.6	11072.5	10959.7	10232.4	11315.2	12706.8	13381.7	13428.6	11947.7	11337.6	12171.2
60°	10934.1	10987.3	11038.5	10441.2	11529.3	12781.3	13396.6	13488.2	12327.7	11671.9	12273.5
62.5°	10469.9	10554.0	10810.6	11083.1	11796.5	12549.1	12920.8	13112.4	12798.3	12550.2	12283.1
65°	9862.0	9905.6	10276.1	11197.1	11278.0	11465.4	11580.3	11826.3	12233.0	12888.8	11843.3
67.5°	8865.5	8994.2	9447.8	10535.9	9748.0	9526.6	9497.8	9253.0	10309.1	12081.8	10759.5
70°	7323.8	7381.3	7940.2	8637.6	7356.8	7016.1	7152.4	7060.9	7991.4	10400.7	8659.9
72.5°	5538.4	5668.3	6214.4	6885.2	5006.1	4564.2	4940.0	4906.0	6002.6	8358.7	5949.3
75°	3940.3	4024.4	4720.7	5388.3	3506.0	2970.4	3105.6	3232.3	4190.5	6599.8	3515.5
77.5°	2707.4	2779.8	3302.6	3563.4	2557.3	2449.7	2241.1	2363.5	2745.8	3915.9	1913.2
80°	1633.2	1630.0	1973.9	2037.7	1781.2	2068.6	1735.4	1948.3	1659.8	1675.8	741.0
82.5°	1060.4	1049.7	1207.3	1315.9	991.2	1042.3	699.5	1008.3	1081.7	467.4	234.2
85°	474.8	495.1	580.2	765.5	434.4	231.0	142.6	309.8	461.0	235.3	0.0
87.5°	48.9	38.3	102.2	186.3	59.6	6.4	21.3	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	0.0



REPORT NUMBER: P651901

CATALOG NUMBER: GALN-SA5A-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4
2.5°	5067.8	5006.1	4821.9	4649.4	4501.4	4320.4	4203.3	4019.1	3907.3	3873.2	3878.6
5°	4864.4	4686.6	4336.4	4056.4	3744.4	3566.6	3296.2	3036.4	2895.9	2843.7	2820.3
7.5°	4438.5	4248.0	3825.4	3385.6	3051.3	2739.4	2538.1	2309.2	2152.7	2024.0	2001.6
10°	4122.4	3872.2	3348.4	2875.6	2611.6	2377.4	2176.2	1947.3	1763.1	1616.1	1575.7
12.5°	3932.9	3652.9	3068.4	2672.3	2422.1	2181.5	1919.6	1654.5	1466.0	1307.4	1233.9
15°	3898.8	3574.1	2989.6	2526.4	2217.7	1927.1	1578.9	1292.5	1098.8	948.6	902.8
17.5°	4104.2	3715.7	2977.9	2374.2	1950.4	1538.4	1176.5	939.1	720.7	636.6	603.7
20°	4470.5	3965.9	2976.8	2197.4	1675.8	1185.0	826.2	612.2	523.8	483.3	464.2
22.5°	4969.8	4306.6	3033.2	2045.2	1390.4	874.1	589.8	487.6	436.5	403.5	396.0
25°	5579.9	4811.2	3171.7	1942.0	1172.2	685.7	486.5	417.4	374.7	359.9	353.5
27.5°	6121.8	5294.6	3323.9	1835.5	1015.7	606.9	451.4	382.2	348.2	336.4	326.8
30°	6589.2	5733.2	3397.3	1695.0	890.0	555.7	457.8	408.8	364.2	329.0	313.0
32.5°	6978.9	6069.7	3445.2	1567.2	783.6	454.6	362.0	316.2	295.9	283.2	272.6
35°	7466.5	6433.7	3416.5	1494.8	729.3	414.2	330.0	272.6	238.5	212.9	202.3
37.5°	7977.6	6797.9	3366.4	1435.2	704.8	384.3	314.1	258.7	221.4	194.9	181.0
40°	8506.6	7135.4	3307.9	1379.8	682.5	365.2	304.5	247.0	209.7	181.0	166.1
42.5°	8991.0	7464.4	3284.5	1343.6	646.2	368.4	297.0	241.7	198.1	168.2	155.4
45°	9382.9	7776.3	3316.4	1324.4	606.9	363.1	299.1	235.3	188.5	159.7	146.9
47.5°	9801.3	8217.1	3419.7	1305.3	568.5	337.5	315.1	234.2	184.2	154.4	140.5
50°	10287.9	8781.3	3656.1	1258.5	521.7	309.8	335.4	233.1	178.9	148.0	134.1
52.5°	10936.2	9422.2	3899.9	1176.5	453.6	283.2	320.5	229.9	168.2	140.5	126.7
55°	11518.6	10097.3	4106.4	1079.6	367.3	244.9	288.5	216.1	150.1	127.7	115.0
57.5°	11759.2	10478.4	4100.0	945.5	293.8	215.0	237.4	198.1	130.9	112.9	102.2
59°	11670.8	10430.5	3962.7	846.4	268.3	199.1	197.0	195.9	122.4	102.2	93.7
60°	11546.3	10255.9	3814.7	797.4	252.3	188.5	181.0	193.8	115.0	95.8	87.3
62.5°	11069.3	9531.9	3323.9	714.4	231.0	159.7	144.8	164.0	102.2	83.0	75.6
65°	10378.4	8419.3	2813.9	691.0	224.6	132.0	120.3	117.2	87.3	70.3	63.9
67.5°	9030.5	7124.7	2279.4	675.0	226.7	110.8	105.4	88.4	72.4	58.5	54.3
70°	7230.2	5555.4	1866.3	656.9	228.9	90.5	88.4	70.3	58.5	48.9	44.7
72.5°	4392.8	3293.0	1469.2	570.6	222.5	72.4	78.8	53.2	42.6	35.2	33.0
75°	2715.9	2253.9	911.4	444.0	146.9	53.2	55.3	33.0	28.8	22.4	22.4
77.5°	1573.6	1423.5	325.8	159.7	64.9	32.0	24.5	17.1	16.0	9.6	9.6
80°	652.6	522.8	112.9	54.3	35.2	14.9	5.3	1.1	0.0	0.0	0.0
82.5°	190.6	169.3	30.9	24.5	10.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4
2.5°	3788.0	3753.0	3737.0	3791.2	3741.2	3805.1	3756.2	3777.4	3840.3	3867.9	3939.2
5°	2835.2	2799.0	2781.9	2863.9	2859.7	2900.1	2895.9	2933.2	2965.1	2893.7	2967.2
7.5°	1974.9	1950.4	1990.9	2054.8	2122.9	2100.6	2100.6	2050.5	2067.6	2056.9	2053.7
10°	1502.3	1418.1	1396.8	1394.7	1420.3	1425.6	1396.8	1327.6	1353.2	1360.7	1405.4
12.5°	1181.8	1116.8	1017.8	973.1	961.4	970.9	876.2	815.5	844.3	827.2	870.9
15°	847.5	794.2	735.7	685.7	671.8	652.6	549.3	476.9	468.4	471.6	479.1
17.5°	604.8	568.5	568.5	515.3	486.5	429.1	376.9	345.0	341.8	345.0	350.3
20°	446.1	426.9	424.8	411.0	379.0	340.7	304.5	298.1	295.9	301.3	303.4
22.5°	384.3	364.2	347.1	346.0	316.2	284.3	267.3	258.7	259.8	261.9	267.3
25°	343.9	322.6	304.5	293.8	272.6	250.2	234.2	229.9	229.9	233.1	234.2
27.5°	315.1	288.5	272.6	257.7	238.5	219.3	205.5	202.3	200.2	202.3	207.6
30°	294.9	268.3	248.1	225.7	210.8	192.7	181.0	176.7	175.7	176.7	181.0
32.5°	252.3	236.3	220.4	200.2	182.1	170.4	157.6	150.1	150.1	152.2	156.5
35°	190.6	182.1	181.0	175.7	160.8	148.0	133.0	125.6	125.6	129.9	132.0
37.5°	168.2	152.2	150.1	148.0	141.6	124.6	110.8	104.4	103.3	106.5	110.8
40°	153.3	135.2	125.6	123.5	124.6	105.4	90.5	84.1	84.1	85.2	89.4
42.5°	141.6	120.3	103.3	101.2	105.4	88.4	73.5	67.1	67.1	67.1	72.4
45°	132.0	107.6	87.3	76.6	83.0	72.4	59.6	53.2	51.1	53.2	55.3
47.5°	125.6	98.0	76.6	61.7	61.7	57.5	47.9	40.5	38.3	39.4	42.6
50°	120.3	89.4	64.9	50.0	44.7	45.8	36.2	30.9	28.8	28.8	32.0
52.5°	111.8	80.9	56.4	42.6	34.1	30.9	26.6	22.4	21.3	22.4	24.5
55°	101.2	73.5	48.9	35.2	26.6	21.3	19.2	16.0	14.9	16.0	19.2
57.5°	89.4	61.7	39.4	27.7	18.1	13.9	12.8	10.7	8.5	9.6	11.7
59°	82.0	55.3	34.1	22.4	13.9	9.6	9.6	7.5	5.3	6.4	9.6
60°	78.8	51.1	28.8	19.2	11.7	7.5	7.5	5.3	3.2	4.3	7.5
62.5°	67.1	42.6	22.4	11.7	5.3	1.1	3.2	1.1	0.0	1.1	3.2
65°	56.4	34.1	14.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	46.8	25.6	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	37.3	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.6	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P651901
 CATALOG NUMBER: GALN-SA5A-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4	4683.4
2.5°	3943.5	4095.8	4189.4	4366.2	4547.2	4686.6	4861.2	5017.7	5082.7	5116.7
5°	3041.7	3253.6	3433.6	3702.9	3953.1	4257.6	4566.4	4930.4	5069.9	5106.1
7.5°	2134.6	2350.8	2539.2	2851.2	3207.8	3615.6	4077.7	4539.7	4743.1	4800.6
10°	1541.6	1772.7	2002.6	2314.6	2647.8	3089.7	3570.9	4142.6	4376.8	4421.6
12.5°	973.1	1221.1	1594.9	1980.3	2332.7	2688.3	3191.8	3813.6	4072.4	4154.3
15°	564.3	749.5	1031.7	1534.2	1982.4	2452.9	3002.4	3690.1	3979.7	4063.8
17.5°	377.9	441.9	635.6	1020.0	1611.9	2235.8	2954.4	3791.2	4111.7	4219.3
20°	318.3	347.1	415.2	621.8	1241.4	2042.0	2967.2	4066.0	4486.5	4620.6
22.5°	280.0	306.6	350.3	447.2	866.7	1801.4	3027.9	4458.8	5001.8	5173.2
25°	247.0	273.6	311.9	370.5	582.4	1523.6	3161.0	5033.7	5684.2	5872.7
27.5°	219.3	243.8	276.8	326.8	448.3	1213.7	3279.1	5593.7	6307.1	6460.4
30°	193.8	214.0	245.9	284.3	372.6	935.9	3338.8	6083.5	6760.6	6930.9
32.5°	168.2	187.4	218.2	249.1	306.6	713.3	3297.2	6443.3	7201.4	7310.0
35°	143.7	164.0	189.5	218.2	265.1	576.0	3089.7	6847.9	7658.1	7743.3
37.5°	123.5	140.5	167.2	189.5	239.5	461.0	2838.4	7212.0	8170.2	8292.7
40°	104.4	121.4	148.0	168.2	220.4	363.1	2611.6	7616.6	8710.0	8861.2
42.5°	85.2	105.4	128.8	161.8	189.5	276.8	2337.0	7944.5	9115.7	9305.2
45°	68.1	90.5	116.1	160.8	165.0	210.8	2071.8	8200.0	9474.5	9644.8
47.5°	54.3	76.6	111.8	150.1	135.2	167.2	1920.7	8467.3	9772.5	9908.8
50°	43.6	63.9	117.2	132.0	112.9	141.6	1916.4	8765.4	9926.9	10017.4
52.5°	35.2	52.1	99.0	101.2	95.8	124.6	2031.4	9100.7	10084.5	10159.0
55°	29.8	43.6	64.9	74.5	86.2	112.9	2117.6	9617.1	10460.3	10530.6
57.5°	23.5	37.3	50.0	59.6	76.6	103.3	2129.3	10015.3	10936.2	10982.0
59°	20.3	32.0	44.7	53.2	70.3	96.9	2081.4	10039.8	10967.1	11040.6
60°	17.1	28.8	39.4	50.0	64.9	91.6	2029.2	9862.0	10852.1	10934.1
62.5°	12.8	22.4	28.8	40.5	53.2	78.8	1782.2	9241.2	10412.4	10469.9
65°	8.5	16.0	21.3	29.8	41.5	68.1	1452.2	8436.4	9733.1	9862.0
67.5°	5.3	11.7	17.1	22.4	34.1	57.5	1034.9	7234.4	8782.4	8865.5
70°	3.2	7.5	12.8	18.1	26.6	45.8	614.4	5718.3	7306.8	7323.8
72.5°	2.1	5.3	8.5	12.8	21.3	41.5	298.1	3727.4	5335.1	5538.4
75°	1.1	3.2	5.3	9.6	17.1	34.1	142.6	2490.3	3881.7	3940.3
77.5°	0.0	1.1	3.2	6.4	12.8	26.6	83.0	1635.3	2646.7	2707.4
80°	0.0	0.0	2.1	5.3	9.6	17.1	50.0	964.5	1603.4	1633.2
82.5°	0.0	0.0	1.1	4.3	6.4	12.8	25.6	423.7	1049.7	1060.4
85°	0.0	0.0	1.1	4.3	5.3	8.5	9.6	57.5	466.3	474.8
87.5°	0.0	0.0	1.1	5.3	5.3	5.3	5.3	3.2	39.4	48.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)