

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: P646896

Luminaire Tested: **GALN-SA4C-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646896
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-SA4C-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA 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: 15638.9 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

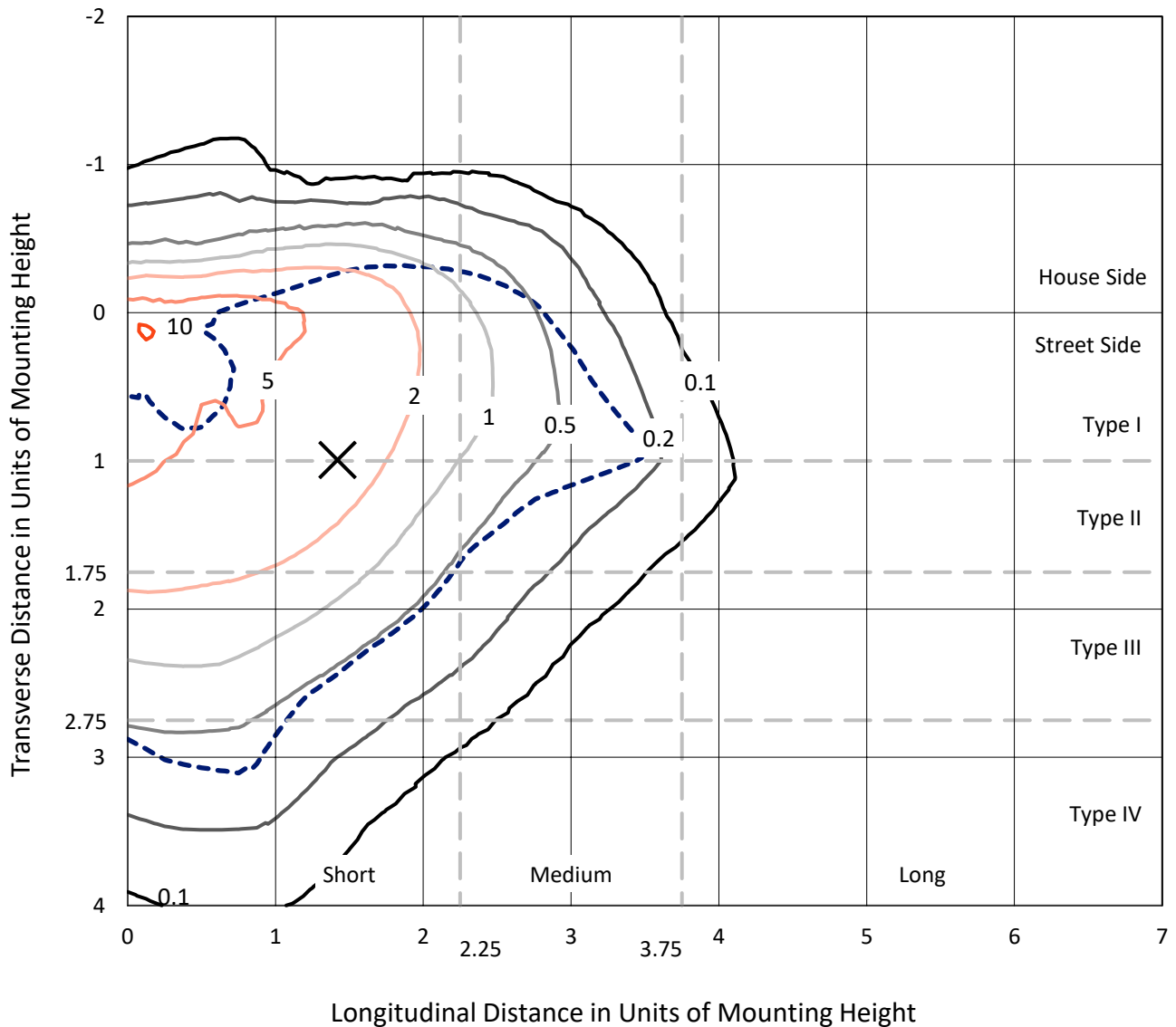
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

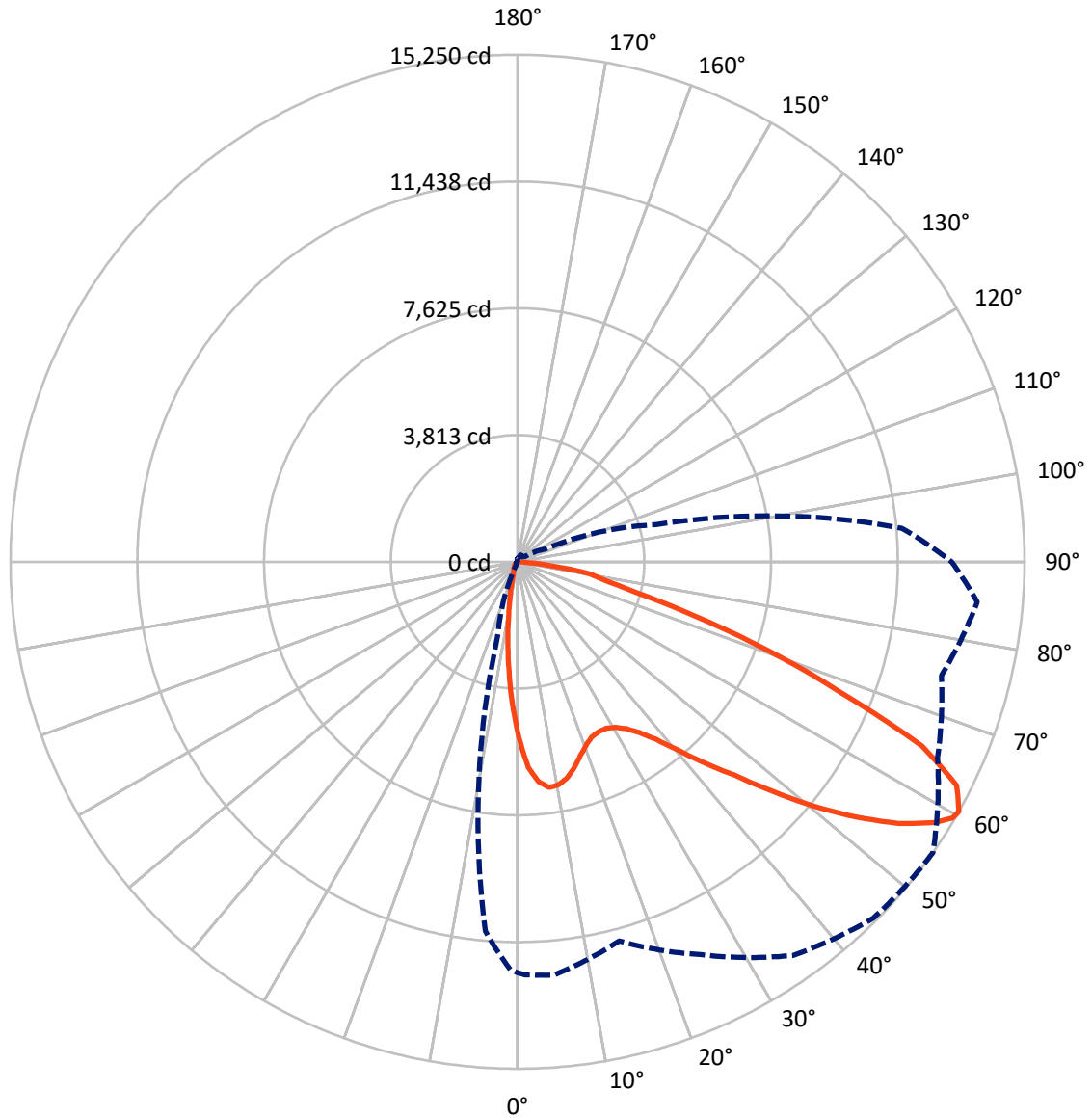
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

REPORT NUMBER: P646896
CATALOG NUMBER: GALN-SA4C-835-U-SLL-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2320.9	0.0	2320.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13317.9	0.0	13317.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	15638.9	0.0	15638.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.1	2.5
10°-20°	772.2	4.9
20°-30°	1143.0	7.3
30°-40°	1703.7	10.9
40°-50°	2495.1	16.0
50°-60°	3602.2	23.0
60°-70°	3789.3	24.2
70°-80°	1558.8	10.0
80°-90°	182.6	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°	15638.9	100.0
0°-180°	15638.9	100.0

Coefficient of Utilization

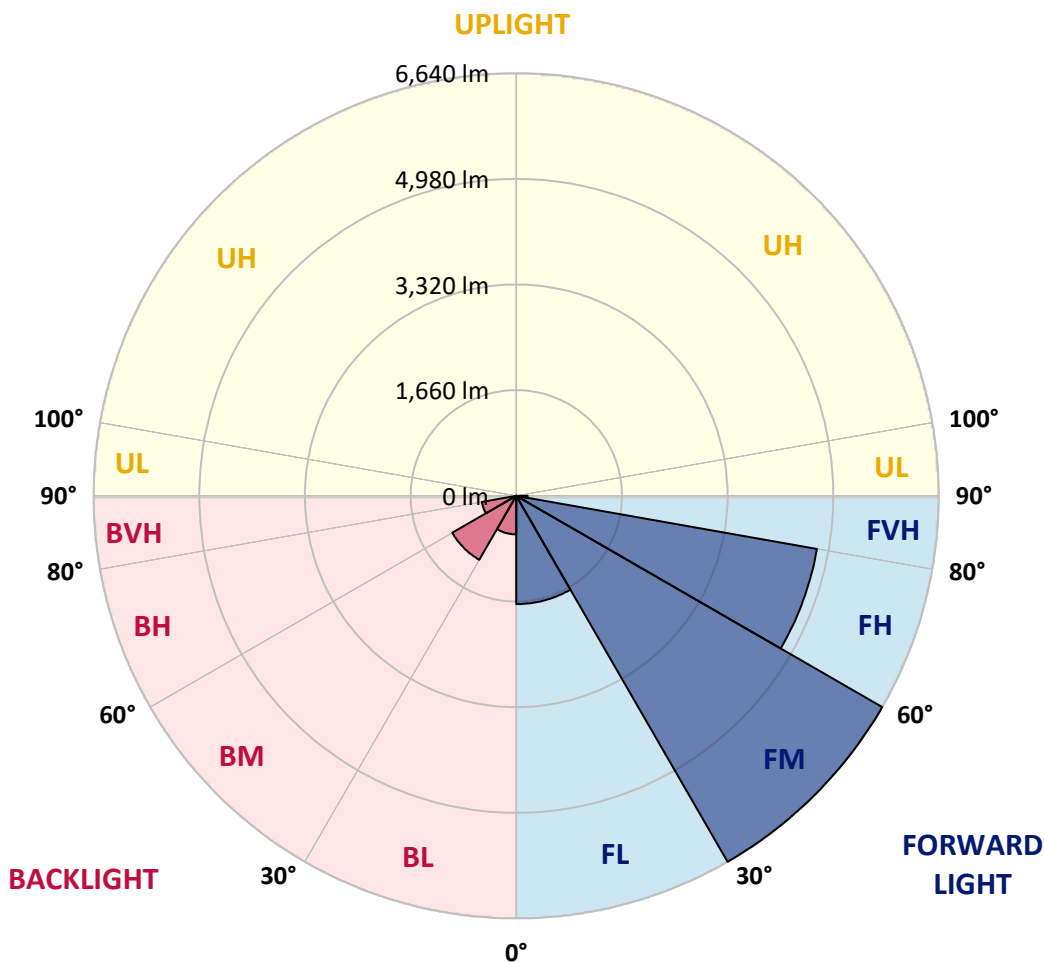


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 CATALOG NUMBER: GALN-SA4C-835-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1701.7	10.9			
FM (30°-60°)	6640.3	42.5			
FH (60°-80°)	4798.7	30.7			G2/5000
FVH (80°-90°)	177.2	1.1			G2/225
BL (0°-30°)	605.5	3.9	B2/1000		
BM (30°-60°)	1160.7	7.4	B2/2500		
BH (60°-80°)	549.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3
2.5°	5785.2	5775.6	5861.1	6000.7	6141.5	6214.9	6200.5	6194.5	6077.7	5992.2	5812.9
5°	5773.1	5822.5	5975.4	6353.3	6639.8	6778.3	6819.2	6647.0	6419.6	6089.8	5682.9
7.5°	5427.7	5489.1	5738.2	6329.3	6838.5	7139.4	7128.6	6852.9	6383.5	5873.0	5292.8
10°	4999.1	5071.4	5363.9	6081.3	6742.2	7139.4	7161.1	6812.0	6228.1	5573.3	4963.0
12.5°	4697.0	4782.5	5106.3	5850.2	6494.2	6885.4	6910.7	6657.9	6111.4	5457.7	4783.7
15°	4594.7	4675.4	5004.0	5733.4	6230.6	6441.3	6435.2	6408.8	6065.7	5485.5	4793.3
17.5°	4770.4	4836.7	5207.4	5786.4	5983.8	5962.2	5993.5	6121.0	6075.3	5717.8	5096.6
20°	5224.3	5291.7	5690.1	5948.9	5794.8	5657.6	5672.1	5885.1	6164.4	6154.8	5571.0
22.5°	5849.0	5963.3	6324.4	6264.3	5769.5	5468.6	5438.5	5715.4	6316.1	6657.9	6211.3
25°	6639.8	6755.4	7037.1	6767.5	5893.6	5424.1	5396.4	5663.6	6500.2	7149.0	6932.4
27.5°	7304.3	7392.2	7672.7	7257.4	6076.5	5443.3	5397.6	5670.9	6649.5	7566.8	7540.3
30°	7836.3	7901.4	8066.3	7486.1	6234.2	5527.6	5474.7	5776.7	6715.7	7770.2	8032.6
32.5°	8264.9	8374.4	8426.2	7730.5	6460.5	5686.5	5596.2	5980.2	6877.0	8021.8	8549.0
35°	8754.8	8881.3	8815.0	7964.0	6759.0	5934.4	5823.7	6310.0	7121.4	8254.1	9148.5
37.5°	9376.0	9521.6	9262.8	8209.5	7074.4	6307.6	6255.9	6773.5	7492.1	8586.3	9791.3
40°	10018.8	10103.0	9697.4	8508.1	7462.0	6850.5	6899.9	7462.0	7977.2	8984.8	10475.0
42.5°	10520.7	10600.2	10143.9	8758.5	7858.0	7494.5	7700.3	8292.6	8533.4	9392.8	10985.4
45°	10904.8	10972.1	10453.3	9031.7	8392.5	8427.4	8816.3	9148.5	9090.7	9642.0	11379.0
47.5°	11203.2	11261.0	10691.6	9325.5	9193.0	9568.6	10163.2	10304.0	9668.5	9911.6	11735.3
50°	11326.0	11342.9	10766.3	9699.8	10101.8	11022.7	11642.6	11557.2	10330.5	10211.3	12114.5
52.5°	11486.1	11482.5	10979.4	10056.1	10956.5	12322.8	12941.4	12747.6	11079.3	10660.4	12540.6
55°	11906.2	11911.1	11435.6	10561.7	11684.8	13372.4	14034.5	13893.6	11868.9	11418.7	13037.7
57.5°	12416.7	12434.7	12084.4	11152.7	12380.5	14133.2	14850.6	14796.4	12936.6	12262.6	13507.2
59°	12482.8	12518.9	12391.4	11569.2	12793.4	14366.7	15129.9	15182.8	13508.4	12818.6	13761.2
60°	12362.5	12422.7	12480.4	11805.1	13035.4	14451.0	15146.7	15250.3	13938.2	13196.7	13876.8
62.5°	11837.6	11932.8	12222.9	12531.0	13337.5	14188.5	14608.7	14825.3	14470.2	14189.8	13887.6
65°	11150.3	11199.6	11618.5	12659.8	12751.2	12963.1	13093.2	13371.2	13831.1	14572.6	13390.5
67.5°	10023.6	10169.2	10682.0	11912.2	11021.5	10771.1	10738.6	10461.7	11655.9	13660.1	12165.1
70°	8280.5	8345.5	8977.6	9766.0	8317.9	7932.7	8086.7	7983.2	9035.3	11759.4	9791.3
72.5°	6261.9	6408.8	7026.3	7784.6	5660.0	5160.4	5585.4	5546.9	6786.7	9450.6	6726.5
75°	4455.0	4550.2	5337.4	6092.1	3963.9	3358.4	3511.3	3654.6	4737.9	7462.0	3974.7
77.5°	3061.1	3143.0	3734.0	4028.9	2891.4	2769.8	2533.9	2672.3	3104.4	4427.4	2163.1
80°	1846.5	1842.9	2231.7	2304.0	2013.9	2338.9	1962.1	2202.9	1876.6	1894.7	837.8
82.5°	1198.9	1186.9	1365.1	1487.9	1120.7	1178.5	790.8	1140.0	1223.0	528.4	264.8
85°	536.9	559.8	656.1	865.5	491.1	261.2	161.3	350.3	521.2	266.1	0.0
87.5°	55.4	43.3	115.6	210.6	67.4	7.2	24.0	12.1	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°	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3
2.5°	5729.8	5660.0	5451.8	5256.7	5089.4	4884.8	4752.4	4544.1	4417.8	4379.2	4385.3
5°	5499.9	5298.9	4902.8	4586.3	4233.6	4032.5	3726.8	3433.1	3274.2	3215.2	3188.7
7.5°	5018.4	4802.9	4325.1	3827.9	3449.9	3097.2	2869.7	2610.9	2434.0	2288.3	2263.0
10°	4660.9	4378.0	3785.8	3251.3	2952.8	2688.0	2460.4	2201.6	1993.4	1827.3	1781.6
12.5°	4446.7	4130.0	3469.2	3021.4	2738.5	2466.5	2170.3	1870.6	1657.5	1478.2	1395.1
15°	4408.1	4041.0	3380.1	2856.5	2507.4	2178.8	1785.2	1461.3	1242.2	1072.6	1020.8
17.5°	4640.4	4201.1	3366.9	2684.4	2205.2	1739.4	1330.2	1061.7	814.9	719.8	682.5
20°	5054.5	4483.9	3365.6	2484.5	1894.7	1339.8	934.1	692.2	592.3	546.5	524.8
22.5°	5619.0	4869.2	3429.5	2312.4	1572.1	988.3	666.9	551.3	493.5	456.3	447.8
25°	6308.9	5439.7	3586.0	2195.6	1325.3	775.2	550.1	471.8	423.7	406.8	399.6
27.5°	6921.6	5986.2	3758.1	2075.3	1148.3	686.1	510.4	432.1	393.6	380.4	369.6
30°	7450.0	6482.1	3841.2	1916.4	1006.3	628.4	517.6	462.2	411.7	371.9	353.9
32.5°	7890.5	6862.5	3895.3	1771.9	886.0	514.0	409.3	357.5	334.7	320.2	308.2
35°	8441.8	7274.2	3862.9	1690.0	824.6	468.2	373.2	308.2	269.7	240.8	228.7
37.5°	9019.7	7685.9	3806.2	1622.6	796.9	434.6	355.1	292.5	250.4	220.3	204.6
40°	9617.9	8067.5	3740.0	1560.0	771.6	412.9	344.3	279.3	237.2	204.6	187.8
42.5°	10165.6	8439.5	3713.5	1519.1	730.7	416.5	335.8	273.3	223.9	190.2	175.8
45°	10608.6	8792.2	3749.6	1497.5	686.1	410.4	338.3	266.1	213.1	180.6	166.2
47.5°	11081.6	9290.5	3866.5	1475.8	642.8	381.6	356.3	264.8	208.3	174.5	158.9
50°	11631.8	9928.5	4133.7	1422.8	589.8	350.3	379.2	263.6	202.2	167.3	151.7
52.5°	12364.9	10653.1	4409.3	1330.2	512.8	320.2	362.3	260.0	190.2	158.9	143.2
55°	13023.3	11416.3	4642.9	1220.6	415.3	276.9	326.2	244.4	169.8	144.5	130.0
57.5°	13295.3	11847.3	4635.6	1069.0	332.2	243.1	268.4	223.9	148.1	127.6	115.6
59°	13195.4	11793.1	4480.3	957.0	303.3	225.1	222.7	221.5	138.4	115.6	105.9
60°	13054.6	11595.7	4313.0	901.6	285.3	213.1	204.6	219.1	130.0	108.4	98.7
62.5°	12515.3	10777.1	3758.1	807.7	261.2	180.6	163.7	185.4	115.6	93.9	85.5
65°	11734.1	9519.2	3181.5	781.2	254.0	149.2	136.0	132.4	98.7	79.5	72.2
67.5°	10210.2	8055.4	2577.2	763.2	256.4	125.2	119.2	99.9	81.8	66.2	61.4
70°	8174.6	6281.1	2110.2	742.7	258.8	102.3	99.9	79.5	66.2	55.4	50.6
72.5°	4966.6	3723.2	1661.1	645.2	251.6	81.8	89.1	60.2	48.2	39.7	37.3
75°	3070.8	2548.4	1030.4	502.0	166.2	60.2	62.6	37.3	32.5	25.3	25.3
77.5°	1779.1	1609.4	368.3	180.6	73.4	36.1	27.7	19.3	18.1	10.8	10.8
80°	737.9	591.0	127.6	61.4	39.7	16.8	6.0	1.2	0.0	0.0	0.0
82.5°	215.5	191.4	34.9	27.7	12.1	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°	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3
2.5°	4282.9	4243.2	4225.1	4286.5	4229.9	4302.2	4246.8	4270.9	4341.9	4373.2	4453.9
5°	3205.6	3164.7	3145.4	3238.1	3233.2	3279.0	3274.2	3316.3	3352.4	3271.8	3354.8
7.5°	2233.0	2205.2	2251.0	2323.2	2400.3	2375.0	2375.0	2318.4	2337.6	2325.7	2322.0
10°	1698.5	1603.4	1579.3	1576.9	1605.8	1611.8	1579.3	1501.1	1530.0	1538.4	1588.9
12.5°	1336.2	1262.7	1150.8	1100.2	1087.0	1097.8	990.7	922.1	954.6	935.3	984.7
15°	958.2	898.0	831.8	775.2	759.6	737.9	621.2	539.3	529.6	533.2	541.7
17.5°	683.7	642.8	642.8	582.6	550.1	485.1	426.1	390.0	386.4	390.0	396.0
20°	504.3	482.7	480.3	464.6	428.5	385.2	344.3	337.1	334.7	340.7	343.0
22.5°	434.6	411.7	392.4	391.2	357.5	321.4	302.2	292.5	293.7	296.1	302.2
25°	388.8	364.7	344.3	332.2	308.2	282.9	264.8	260.0	260.0	263.6	264.8
27.5°	356.3	326.2	308.2	291.3	269.7	248.0	232.3	228.7	226.3	228.7	234.7
30°	333.4	303.3	280.5	255.2	238.3	217.9	204.6	199.8	198.6	199.8	204.6
32.5°	285.3	267.2	249.2	226.3	205.9	192.6	178.1	169.8	169.8	172.1	177.0
35°	215.5	205.9	204.6	198.6	181.7	167.3	150.5	142.0	142.0	146.9	149.2
37.5°	190.2	172.1	169.8	167.3	160.1	140.9	125.2	118.0	116.7	120.3	125.2
40°	173.4	152.8	142.0	139.6	140.9	119.2	102.3	95.1	95.1	96.3	101.1
42.5°	160.1	136.0	116.7	114.3	119.2	99.9	83.1	75.9	75.9	75.9	81.8
45°	149.2	121.6	98.7	86.7	93.9	81.8	67.4	60.2	57.8	60.2	62.6
47.5°	142.0	110.7	86.7	69.8	69.8	65.0	54.2	45.7	43.3	44.6	48.2
50°	136.0	101.1	73.4	56.6	50.6	51.8	41.0	34.9	32.5	32.5	36.1
52.5°	126.4	91.5	63.8	48.2	38.5	34.9	30.1	25.3	24.0	25.3	27.7
55°	114.3	83.1	55.4	39.7	30.1	24.0	21.7	18.1	16.8	18.1	21.7
57.5°	101.1	69.8	44.6	31.3	20.4	15.7	14.4	12.1	9.6	10.8	13.2
59°	92.7	62.6	38.5	25.3	15.7	10.8	10.8	8.5	6.0	7.2	10.8
60°	89.1	57.8	32.5	21.7	13.2	8.5	8.5	6.0	3.6	4.8	8.5
62.5°	75.9	48.2	25.3	13.2	6.0	1.2	3.6	1.2	0.0	1.2	3.6
65°	63.8	38.5	16.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	52.9	28.9	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	42.1	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.9	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.2	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: P646896
 CATALOG NUMBER: GALN-SA4C-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3	5295.3
2.5°	4458.6	4630.8	4736.8	4936.6	5141.2	5298.9	5496.3	5673.2	5746.7	5785.2
5°	3439.1	3678.6	3882.1	4186.6	4469.5	4813.8	5162.9	5574.6	5732.3	5773.1
7.5°	2413.5	2657.9	2870.9	3223.6	3626.9	4087.9	4610.4	5132.8	5362.7	5427.7
10°	1743.0	2004.2	2264.3	2616.9	2993.7	3493.3	4037.4	4683.7	4948.6	4999.1
12.5°	1100.2	1380.7	1803.2	2239.0	2637.4	3039.4	3608.8	4311.8	4604.4	4697.0
15°	638.0	847.4	1166.4	1734.6	2241.3	2773.5	3394.5	4172.2	4499.6	4594.7
17.5°	427.4	499.6	718.6	1153.2	1822.4	2527.8	3340.4	4286.5	4648.8	4770.4
20°	359.9	392.4	469.5	703.0	1403.6	2308.8	3354.8	4597.1	5072.6	5224.3
22.5°	316.6	346.7	396.0	505.6	979.8	2036.7	3423.4	5041.3	5655.2	5849.0
25°	279.3	309.4	352.7	418.9	658.4	1722.5	3573.9	5691.3	6426.8	6639.8
27.5°	248.0	275.7	313.0	369.6	506.8	1372.3	3707.5	6324.4	7131.0	7304.3
30°	219.1	241.9	278.0	321.4	421.3	1058.1	3774.9	6878.2	7643.8	7836.3
32.5°	190.2	211.9	246.8	281.6	346.7	806.5	3728.0	7285.0	8142.1	8264.9
35°	162.5	185.4	214.2	246.8	299.7	651.2	3493.3	7742.5	8658.6	8754.8
37.5°	139.6	158.9	189.0	214.2	270.8	521.2	3209.2	8154.2	9237.5	9376.0
40°	118.0	137.3	167.3	190.2	249.2	410.4	2952.8	8611.6	9847.9	10018.8
42.5°	96.3	119.2	145.6	183.0	214.2	313.0	2642.2	8982.3	10306.5	10520.7
45°	77.0	102.3	131.2	181.7	186.6	238.3	2342.5	9271.3	10712.1	10904.8
47.5°	61.4	86.7	126.4	169.8	152.8	189.0	2171.6	9573.3	11049.1	11203.2
50°	49.3	72.2	132.4	149.2	127.6	160.1	2166.7	9910.4	11223.8	11326.0
52.5°	39.7	59.0	112.0	114.3	108.4	140.9	2296.8	10289.6	11401.9	11486.1
55°	33.7	49.3	73.4	84.3	97.5	127.6	2394.3	10873.4	11826.8	11906.2
57.5°	26.5	42.1	56.6	67.4	86.7	116.7	2407.5	11323.7	12364.9	12416.7
59°	22.9	36.1	50.6	60.2	79.5	109.5	2353.3	11351.3	12399.7	12482.8
60°	19.3	32.5	44.6	56.6	73.4	103.5	2294.3	11150.3	12269.8	12362.5
62.5°	14.4	25.3	32.5	45.7	60.2	89.1	2015.1	10448.5	11772.6	11837.6
65°	9.6	18.1	24.0	33.7	47.0	77.0	1641.9	9538.5	11004.7	11150.3
67.5°	6.0	13.2	19.3	25.3	38.5	65.0	1170.0	8179.5	9929.7	10023.6
70°	3.6	8.5	14.4	20.4	30.1	51.8	694.6	6465.3	8261.3	8280.5
72.5°	2.4	6.0	9.6	14.4	24.0	47.0	337.1	4214.3	6032.0	6261.9
75°	1.2	3.6	6.0	10.8	19.3	38.5	161.3	2815.6	4388.9	4455.0
77.5°	0.0	1.2	3.6	7.2	14.4	30.1	93.9	1849.0	2992.5	3061.1
80°	0.0	0.0	2.4	6.0	10.8	19.3	56.6	1090.6	1812.8	1846.5
82.5°	0.0	0.0	1.2	4.8	7.2	14.4	28.9	479.1	1186.9	1198.9
85°	0.0	0.0	1.2	4.8	6.0	9.6	10.8	65.0	527.3	536.9
87.5°	0.0	0.0	1.2	6.0	6.0	6.0	6.0	3.6	44.6	55.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)