

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: P646949

Luminaire Tested: **GALN-SA5C-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15240.3 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

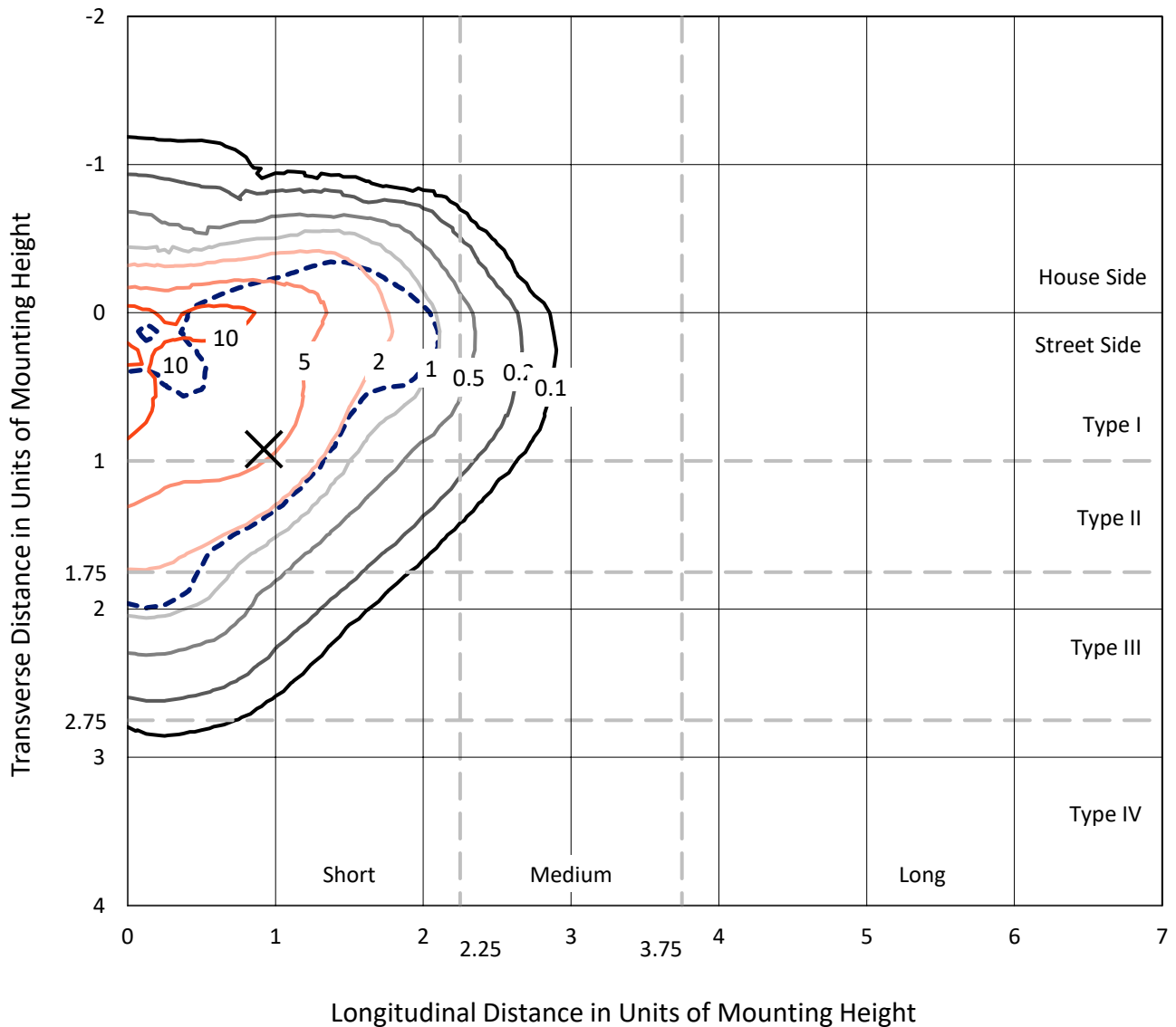
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

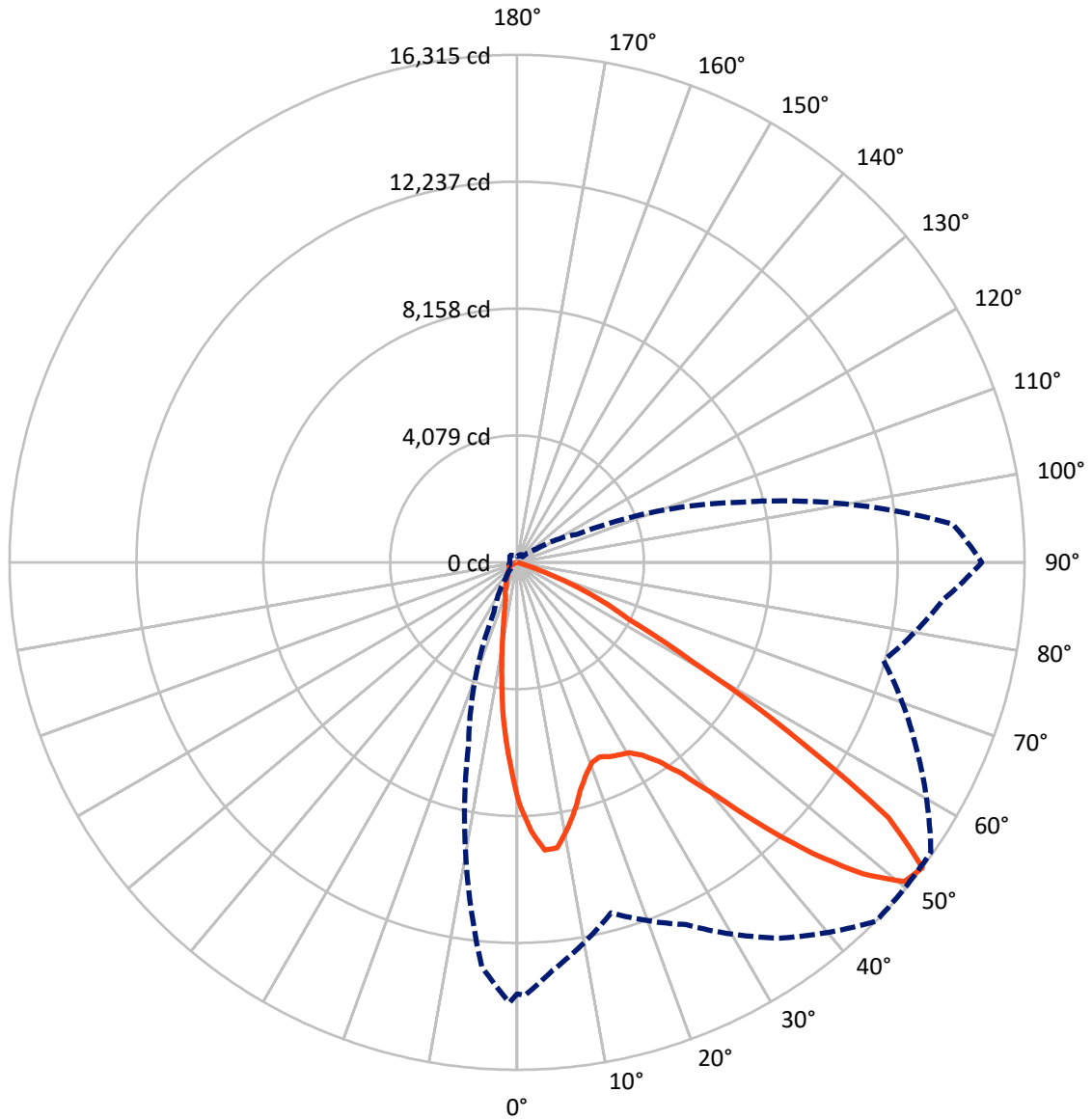
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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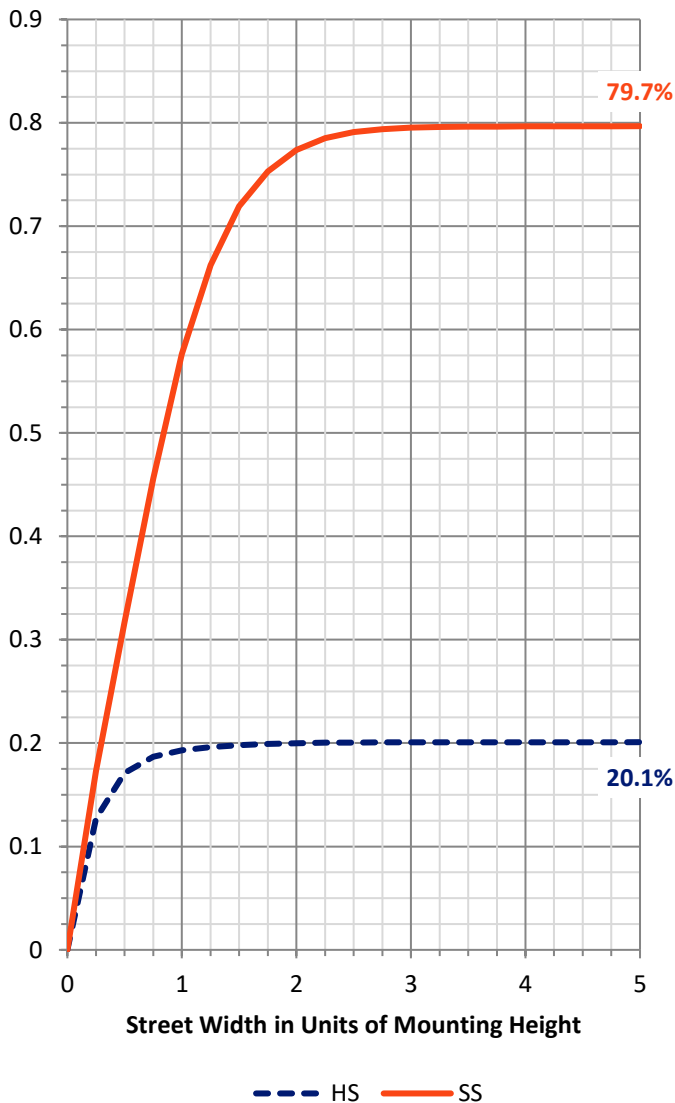
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3093.0	0.0	3093.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12147.3	0.0	12147.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	15240.3	0.0	15240.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.6	3.7
10°-20°	1111.9	7.3
20°-30°	1692.1	11.1
30°-40°	2529.0	16.6
40°-50°	3601.6	23.6
50°-60°	3871.6	25.4
60°-70°	1715.6	11.3
70°-80°	138.8	0.9
80°-90°	16.2	0.1
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°	15240.3	100.0
0°-180°	15240.3	100.0



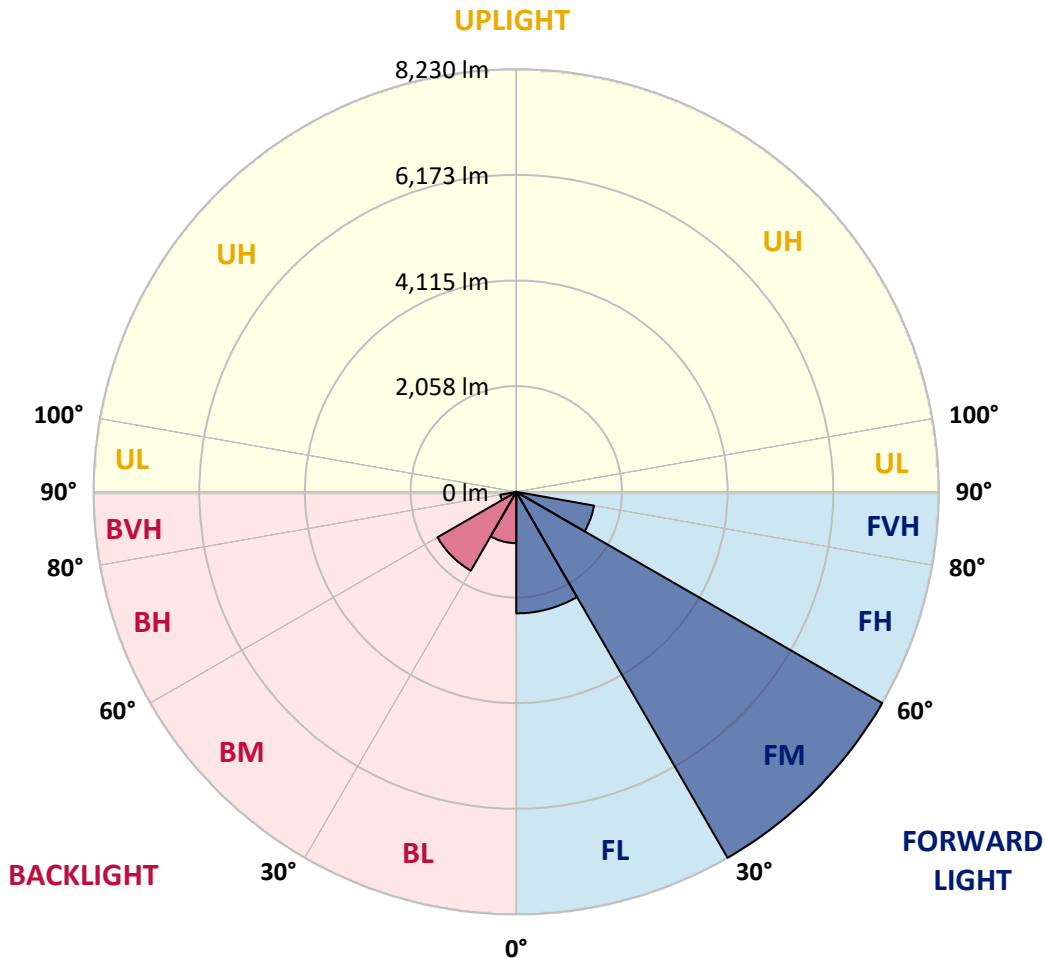
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2367.1	15.5			
FM (30°-60°)	8230.2	54.0			
FH (60°-80°)	1537.9	10.1			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1000.4	6.6	B3/2500		
BM (30°-60°)	1772.0	11.6	B2/2500		
BH (60°-80°)	316.5	2.1	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6
2.5°	8177.2	8201.1	8333.1	8497.9	8584.8	8782.7	8644.8	8680.7	8605.8	8342.0	8135.2
5°	7928.3	7925.4	8093.2	8500.9	8887.6	9280.3	9292.3	9082.4	8713.7	8309.0	7730.6
7.5°	7179.0	7295.9	7469.7	8120.2	8836.6	9130.4	9271.3	9025.5	8458.9	7880.4	7253.9
10°	6612.5	6672.4	6966.2	7751.5	8276.1	8668.7	8755.7	8614.8	8180.2	7457.8	6756.4
12.5°	6285.8	6315.8	6660.4	7319.9	7874.4	8165.2	8207.2	8273.1	7961.4	7283.9	6441.6
15°	6288.7	6312.7	6777.3	7328.9	7547.7	7469.7	7607.6	7604.7	7739.6	7251.0	6705.4
17.5°	6741.4	6768.3	7188.0	7460.7	7364.8	7182.0	7173.0	7310.9	7595.6	7661.6	7104.1
20°	7520.7	7583.7	7892.4	7877.4	7337.9	6969.2	6867.3	6972.1	7634.6	8009.3	7907.4
22.5°	8569.9	8656.8	8872.6	8458.9	7460.7	6825.3	6792.3	6996.2	7892.4	8785.7	8818.6
25°	9786.8	9933.7	10038.6	9508.0	7898.4	7074.1	6918.2	7268.9	8240.1	9627.9	9978.6
27.5°	10593.1	10746.0	10722.0	9963.7	8192.1	7140.0	7008.2	7334.9	8542.8	9828.8	10584.1
30°	11222.7	11315.5	11483.4	10209.5	8485.9	7325.9	7101.1	7613.7	8641.8	10176.5	11315.5
32.5°	11957.0	12020.0	12032.0	10644.1	8938.6	7559.7	7388.9	7961.4	9079.4	10509.2	11963.0
35°	12697.4	12790.3	12595.5	11180.7	9217.3	7994.4	7868.4	8563.8	9430.1	10853.9	12676.4
37.5°	13500.7	13548.7	13099.0	11402.5	9615.9	8701.7	8632.8	9214.3	10038.6	11477.4	13467.8
40°	14175.2	14220.1	13635.6	11675.2	10035.6	9690.9	9867.8	10455.2	10865.9	11882.1	13863.4
42.5°	14549.9	14654.8	13815.5	11525.4	10877.9	10812.0	11597.3	11804.1	11825.1	11996.0	14217.2
45°	14651.7	14603.8	13518.7	11648.3	11615.3	12655.4	13368.9	13641.6	12778.3	12205.8	14307.1
47.5°	14181.1	14244.1	13081.1	11540.3	12583.5	14052.3	14975.5	15482.1	13488.7	12023.0	14085.2
50°	13800.5	13719.6	12940.2	11462.4	12844.3	14711.7	16135.5	16249.4	14142.2	12247.8	13842.4
52.5°	13875.4	13926.4	13165.0	11669.3	12850.3	14750.7	16315.4	16237.5	14163.1	12196.8	13755.5
55°	14034.3	13809.5	13069.1	11213.7	11990.0	13662.6	14480.9	14361.0	13072.1	11654.3	13542.7
57.5°	12109.9	12457.6	12016.9	10011.7	9840.7	10293.4	10278.4	10647.1	9750.9	10029.6	12328.7
60°	9828.8	9888.7	10053.6	8563.8	6810.3	6654.4	6438.6	6204.8	6561.5	8575.8	11213.7
62.5°	8644.8	8572.8	9160.3	7790.5	4808.0	4025.6	3989.7	4133.5	5062.8	8180.2	10518.2
65°	6282.8	6372.7	6798.3	6045.9	3609.0	3072.4	3018.5	3444.1	4097.6	6555.5	8027.3
67.5°	3836.8	4010.7	4049.6	3728.9	2449.0	1945.4	1867.5	2254.1	2958.6	4241.4	4706.1
70°	1771.5	1981.4	2179.2	2035.3	1417.8	800.3	755.4	947.2	1492.8	2440.0	2496.9
72.5°	536.6	539.6	755.4	788.3	458.6	179.9	158.9	209.8	506.6	806.3	848.3
75°	39.0	42.0	101.9	116.9	86.9	44.9	48.0	56.9	107.9	179.9	134.9
77.5°	3.0	3.0	3.0	15.0	27.0	30.0	39.0	44.9	56.9	65.9	60.0
80°	3.0	0.0	3.0	12.0	21.0	30.0	35.9	42.0	44.9	51.0	44.9
82.5°	0.0	0.0	0.0	9.0	21.0	30.0	33.0	44.9	51.0	60.0	51.0
85°	0.0	0.0	0.0	9.0	21.0	33.0	30.0	15.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6
2.5°	8171.2	8054.3	7787.5	7652.6	7334.9	7289.9	6978.2	6927.2	6822.3	6765.4	6627.5
5°	7475.8	7334.9	6900.3	6534.5	6108.9	5812.1	5584.4	5377.5	5257.6	5146.7	5197.6
7.5°	6909.2	6498.6	6015.9	5404.5	4912.9	4595.2	4247.5	3962.7	3794.8	3681.0	3707.9
10°	6315.8	6048.9	5377.5	4691.1	4097.6	3872.8	3600.0	3381.2	3144.4	2940.6	2844.6
12.5°	6129.9	5734.2	4891.9	4193.5	3743.8	3525.1	3213.4	2961.5	2658.8	2410.0	2323.1
15°	6162.8	5782.1	4760.0	4013.7	3483.1	3105.4	2733.7	2422.0	2089.3	1915.4	1825.5
17.5°	6699.4	6040.0	4846.9	3824.8	3120.4	2595.8	2137.2	1741.5	1492.8	1312.9	1273.9
20°	7358.9	6597.5	5032.8	3686.9	2823.7	2065.2	1561.7	1220.0	1013.1	983.2	974.2
22.5°	8324.1	7508.7	5431.4	3594.0	2461.0	1609.7	1070.1	887.3	830.3	824.3	827.3
25°	9672.9	8650.7	5866.1	3516.1	2188.2	1241.0	875.2	752.4	734.4	725.4	740.4
27.5°	10257.5	9340.2	6096.9	3348.2	1939.4	1118.0	863.3	746.4	695.4	680.4	689.4
30°	10979.9	9798.9	6459.6	3060.4	1573.7	920.3	806.3	812.3	788.3	713.4	689.4
32.5°	11939.0	10371.3	6642.4	2856.6	1405.8	761.4	590.5	542.5	605.5	617.5	638.5
35°	12553.5	10952.8	6735.4	2736.7	1318.9	650.4	500.6	455.6	440.6	443.6	455.6
37.5°	13695.5	11738.2	6852.3	2610.8	1253.0	566.5	452.7	410.7	389.7	389.7	401.7
40°	14379.0	12361.7	7011.1	2541.9	1187.0	515.6	410.7	374.7	356.7	356.7	362.7
42.5°	14549.9	12670.4	6957.2	2517.9	1112.1	503.5	374.7	347.7	326.7	323.7	320.7
45°	14855.6	13141.0	6966.2	2491.0	1034.1	458.6	353.7	323.7	293.8	290.7	287.8
47.5°	15191.3	13479.7	6984.2	2386.0	959.2	383.7	368.7	299.7	263.8	257.8	257.8
50°	14903.5	13749.5	7140.0	2281.1	863.3	311.7	362.7	281.8	233.8	224.8	227.8
52.5°	14939.6	14067.2	7469.7	2134.2	743.4	248.8	293.8	266.8	212.8	197.9	200.8
55°	14364.0	13731.5	7514.7	1978.3	581.5	191.8	224.8	233.8	179.9	173.8	173.8
57.5°	12364.7	11627.3	6630.4	1603.7	383.7	158.9	161.8	203.8	155.9	149.9	152.8
60°	10581.1	9334.2	5335.5	1058.1	239.8	125.9	116.9	206.8	137.9	134.9	143.9
62.5°	9645.9	7670.6	4046.6	656.5	164.9	95.9	81.0	167.9	119.9	119.9	131.9
65°	6969.2	5152.7	2353.1	344.7	116.9	74.9	60.0	95.9	98.9	101.9	107.9
67.5°	4316.4	2601.8	992.1	167.9	77.9	51.0	39.0	60.0	65.9	65.9	72.0
70°	2131.2	1037.2	329.7	95.9	60.0	42.0	27.0	33.0	33.0	30.0	33.0
72.5°	659.4	311.7	83.9	60.0	42.0	27.0	15.0	12.0	6.0	0.0	3.0
75°	74.9	60.0	53.9	42.0	27.0	12.0	3.0	0.0	0.0	0.0	0.0
77.5°	44.9	51.0	51.0	42.0	27.0	9.0	0.0	0.0	0.0	0.0	0.0
80°	35.9	39.0	42.0	39.0	24.0	12.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	51.0	56.9	51.0	33.0	15.0	6.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.0	3.0	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°	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6
2.5°	6570.5	6504.5	6597.5	6459.6	6456.6	6459.6	6420.6	6384.7	6441.6	6594.5	6609.5
5°	5014.8	5155.7	5200.7	5347.5	5266.6	5146.7	5170.7	5089.7	5287.6	5374.5	5305.6
7.5°	3651.0	3642.0	3944.7	3962.7	4001.7	4004.7	3998.6	3839.8	3677.9	3713.9	3821.8
10°	2832.7	2679.7	2826.6	2811.7	2907.6	2880.6	2919.6	2748.7	2805.6	2805.6	2874.6
12.5°	2308.0	2146.2	2119.3	2080.3	2119.3	2134.2	2149.2	2116.2	2212.1	2257.2	2305.1
15°	1762.5	1672.6	1648.6	1573.7	1585.7	1627.6	1663.6	1678.6	1648.6	1717.6	1723.5
17.5°	1280.0	1276.9	1292.0	1288.9	1276.9	1267.9	1264.9	1225.9	1214.0	1220.0	1244.0
20°	971.2	995.2	1046.1	1097.1	1124.1	1091.1	1046.1	980.2	953.2	959.2	962.2
22.5°	830.3	866.3	935.2	992.1	1019.2	959.2	878.3	821.3	809.3	806.3	803.4
25°	752.4	794.4	845.3	863.3	860.3	824.3	764.4	740.4	734.4	728.4	701.4
27.5°	710.4	725.4	734.4	755.4	764.4	740.4	725.4	689.4	683.4	683.4	665.5
30°	686.5	677.5	689.4	674.4	686.5	668.4	671.4	671.4	656.5	662.4	662.4
32.5°	638.5	641.4	641.4	611.5	620.4	599.5	620.4	638.5	641.4	644.5	668.4
35°	467.6	521.6	548.6	548.6	557.5	542.5	539.6	518.6	491.6	464.6	452.7
37.5°	410.7	431.7	467.6	488.6	503.5	491.6	464.6	431.7	416.6	404.7	392.7
40°	365.7	383.7	407.6	431.7	461.6	446.6	404.7	389.7	371.7	371.7	359.7
42.5°	329.7	338.7	353.7	389.7	422.7	392.7	362.7	350.7	341.7	338.7	335.8
45°	296.8	299.7	314.8	344.7	383.7	353.7	323.7	308.7	311.7	314.8	311.7
47.5°	266.8	272.8	281.8	317.7	341.7	326.7	293.8	284.8	284.8	284.8	287.8
50°	230.8	245.8	263.8	293.8	311.7	302.8	275.8	263.8	257.8	257.8	260.8
52.5°	206.8	218.8	242.8	278.7	302.8	287.8	260.8	242.8	230.8	227.8	233.8
55°	179.9	200.8	239.8	266.8	299.7	284.8	254.8	233.8	212.8	209.8	209.8
57.5°	161.8	194.8	230.8	263.8	290.7	278.7	254.8	227.8	200.8	197.9	197.9
60°	152.8	188.9	224.8	254.8	290.7	272.8	251.8	221.8	191.8	191.8	188.9
62.5°	143.9	176.9	212.8	242.8	278.7	263.8	242.8	212.8	182.8	182.8	176.9
65°	119.9	152.8	176.9	203.8	242.8	227.8	206.8	185.8	161.8	155.9	158.9
67.5°	83.9	104.9	128.9	155.9	179.9	173.8	164.9	149.9	128.9	125.9	122.9
70°	42.0	56.9	77.9	104.9	125.9	119.9	113.9	101.9	89.9	86.9	86.9
72.5°	6.0	18.0	33.0	48.0	65.9	68.9	65.9	63.0	60.0	56.9	60.0
75°	0.0	0.0	0.0	12.0	27.0	33.0	39.0	44.9	44.9	39.0	48.0
77.5°	0.0	0.0	0.0	0.0	3.0	15.0	30.0	39.0	48.0	42.0	56.9
80°	0.0	0.0	0.0	0.0	3.0	18.0	30.0	42.0	48.0	42.0	60.0
82.5°	0.0	0.0	0.0	0.0	3.0	21.0	30.0	39.0	44.9	42.0	53.9
85°	0.0	0.0	0.0	0.0	9.0	18.0	12.0	6.0	3.0	3.0	9.0
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: P646949

CATALOG NUMBER: GALN-SA5C-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6	7727.6
2.5°	6693.4	6906.2	7134.1	7221.0	7490.7	7694.5	7832.4	8129.2	8174.2	8177.2
5°	5377.5	5485.4	5875.1	6057.9	6459.6	6771.4	7104.1	7583.7	7904.4	7928.3
7.5°	3821.8	4121.6	4286.5	4763.0	5257.6	5746.2	6240.8	6798.3	7170.0	7179.0
10°	3075.5	3270.3	3564.1	3920.7	4337.4	4834.9	5494.4	6141.9	6519.6	6612.5
12.5°	2475.9	2817.6	3153.4	3522.1	3839.8	4214.5	4924.9	5788.2	6099.9	6285.8
15°	1906.4	2218.2	2613.8	3045.5	3405.2	3905.8	4715.1	5701.3	6225.8	6288.7
17.5°	1405.8	1684.6	2050.3	2457.9	2997.5	3707.9	4751.0	6141.9	6636.5	6741.4
20°	1010.1	1172.0	1459.7	1933.4	2619.8	3477.1	4787.0	6588.5	7340.9	7520.7
22.5°	800.3	866.3	1055.1	1474.8	2197.2	3234.3	5041.8	7442.8	8309.0	8569.9
25°	695.4	731.4	821.3	1163.0	1930.4	3210.3	5449.4	8467.9	9598.0	9786.8
27.5°	671.4	677.5	755.4	1067.1	1786.5	3051.4	5605.3	9196.3	10401.3	10593.1
30°	707.4	803.4	809.3	902.3	1519.7	2736.7	5686.2	9900.7	11081.7	11222.7
32.5°	611.5	581.5	602.5	698.4	1336.9	2553.8	5839.1	10515.2	11858.1	11957.0
35°	425.6	446.6	494.6	605.5	1169.0	2362.0	5878.1	11192.7	12595.5	12697.4
37.5°	392.7	404.7	443.6	515.6	1028.2	2254.1	5824.1	11687.2	13359.9	13500.7
40°	365.7	380.7	401.7	467.6	923.2	2134.2	5749.2	12133.8	13827.5	14175.2
42.5°	344.7	356.7	374.7	446.6	833.3	2014.3	5644.3	12763.4	14247.1	14549.9
45°	320.7	338.7	359.7	434.6	782.4	1933.4	5566.3	12724.4	14489.9	14651.7
47.5°	296.8	326.7	350.7	404.7	767.3	1894.4	5599.3	12577.5	14292.1	14181.1
50°	272.8	311.7	353.7	335.8	731.4	1816.5	5638.3	12778.3	13821.4	13800.5
52.5°	251.8	296.8	329.7	275.8	650.4	1741.5	6015.9	13042.1	14154.2	13875.4
55°	221.8	266.8	263.8	221.8	527.6	1684.6	6312.7	13048.1	13929.3	14034.3
57.5°	200.8	236.8	206.8	185.8	389.7	1408.9	5830.1	10940.9	11924.1	12109.9
60°	185.8	230.8	155.9	146.9	254.8	1016.2	5089.7	8473.9	9478.1	9828.8
62.5°	170.9	218.8	122.9	119.9	176.9	722.4	4184.5	7092.1	8168.2	8644.8
65°	149.9	155.9	98.9	92.9	125.9	389.7	2547.9	4882.9	6105.9	6282.8
67.5°	122.9	119.9	81.0	74.9	83.9	188.9	1124.1	2445.9	3540.0	3836.8
70°	98.9	98.9	68.9	60.0	60.0	86.9	293.8	974.2	1600.7	1771.5
72.5°	72.0	74.9	53.9	48.0	44.9	42.0	48.0	194.8	419.7	536.6
75°	63.0	65.9	53.9	42.0	33.0	27.0	21.0	18.0	24.0	39.0
77.5°	68.9	68.9	56.9	39.0	30.0	21.0	12.0	6.0	6.0	3.0
80°	86.9	89.9	74.9	51.0	35.9	24.0	15.0	6.0	3.0	3.0
82.5°	92.9	101.9	83.9	63.0	44.9	27.0	15.0	3.0	0.0	0.0
85°	24.0	39.0	65.9	56.9	44.9	27.0	15.0	3.0	0.0	0.0
87.5°	0.0	3.0	9.0	9.0	12.0	12.0	9.0	3.0	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)