

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: P648544

Luminaire Tested: **GALN-SA7B-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648544
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-SA7B-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA 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: 17156.3 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

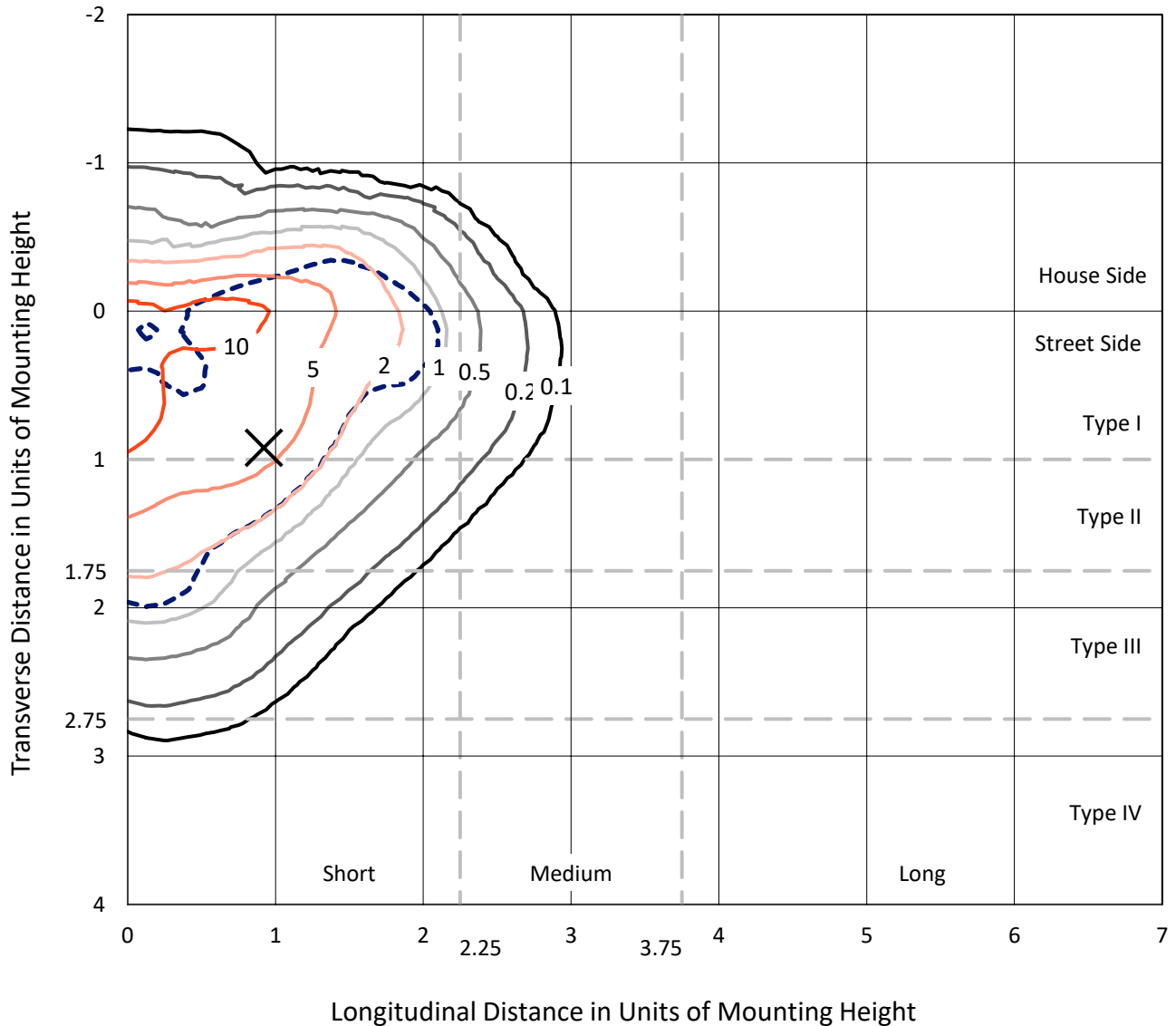
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

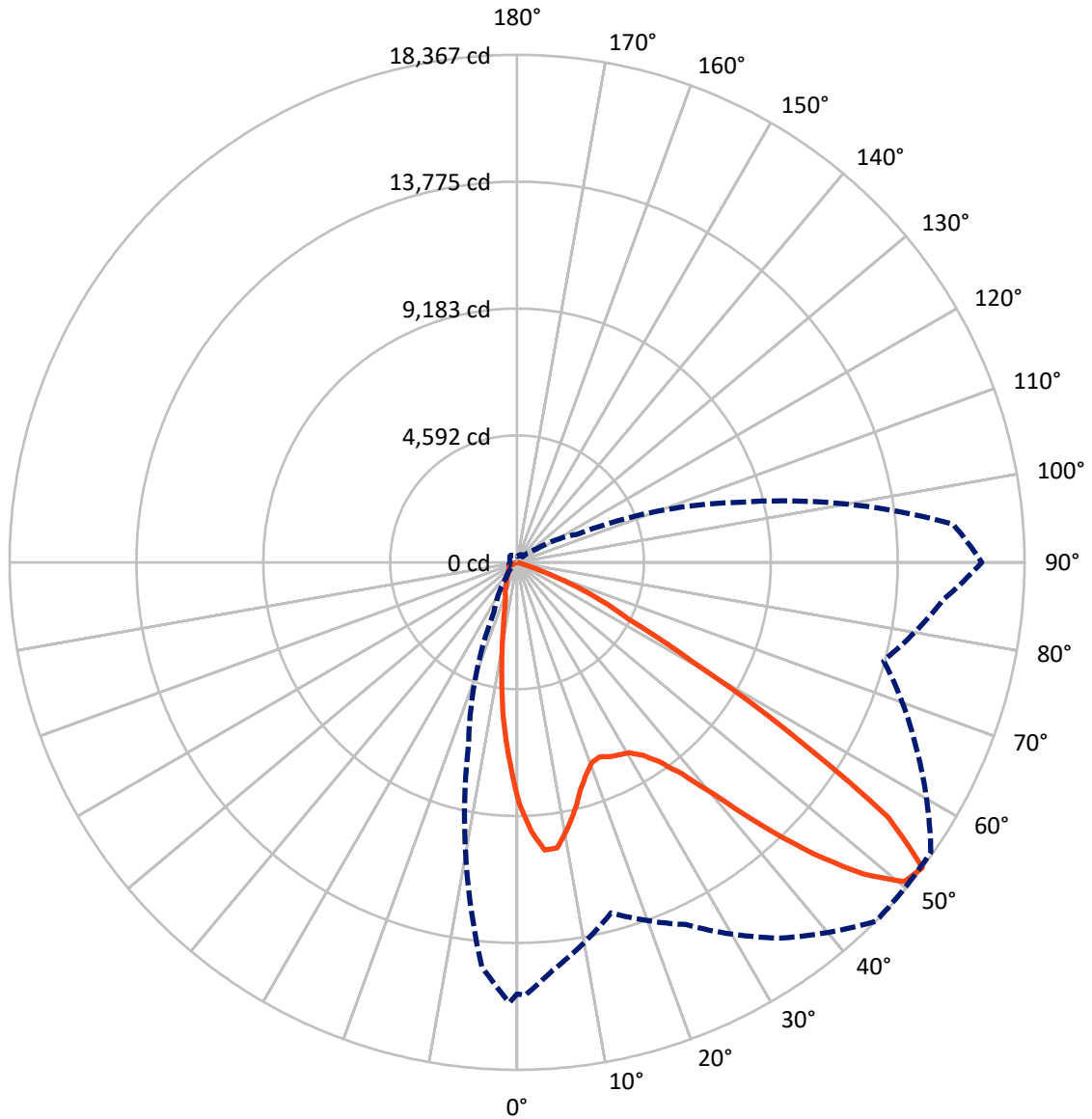
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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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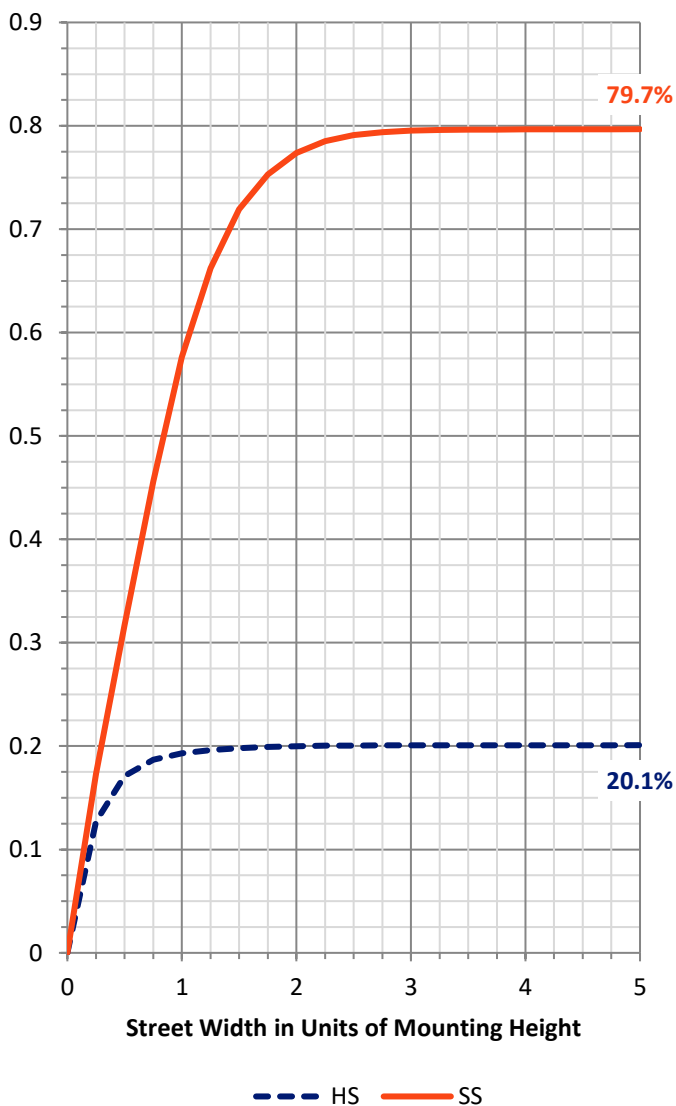
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3481.9	0.0	3481.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13674.4	0.0	13674.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	17156.3	0.0	17156.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.4	3.7
10°-20°	1251.7	7.3
20°-30°	1904.8	11.1
30°-40°	2847.0	16.6
40°-50°	4054.4	23.6
50°-60°	4358.3	25.4
60°-70°	1931.3	11.3
70°-80°	156.2	0.9
80°-90°	18.2	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°	17156.3	100.0
0°-180°	17156.3	100.0

Coefficient of Utilization



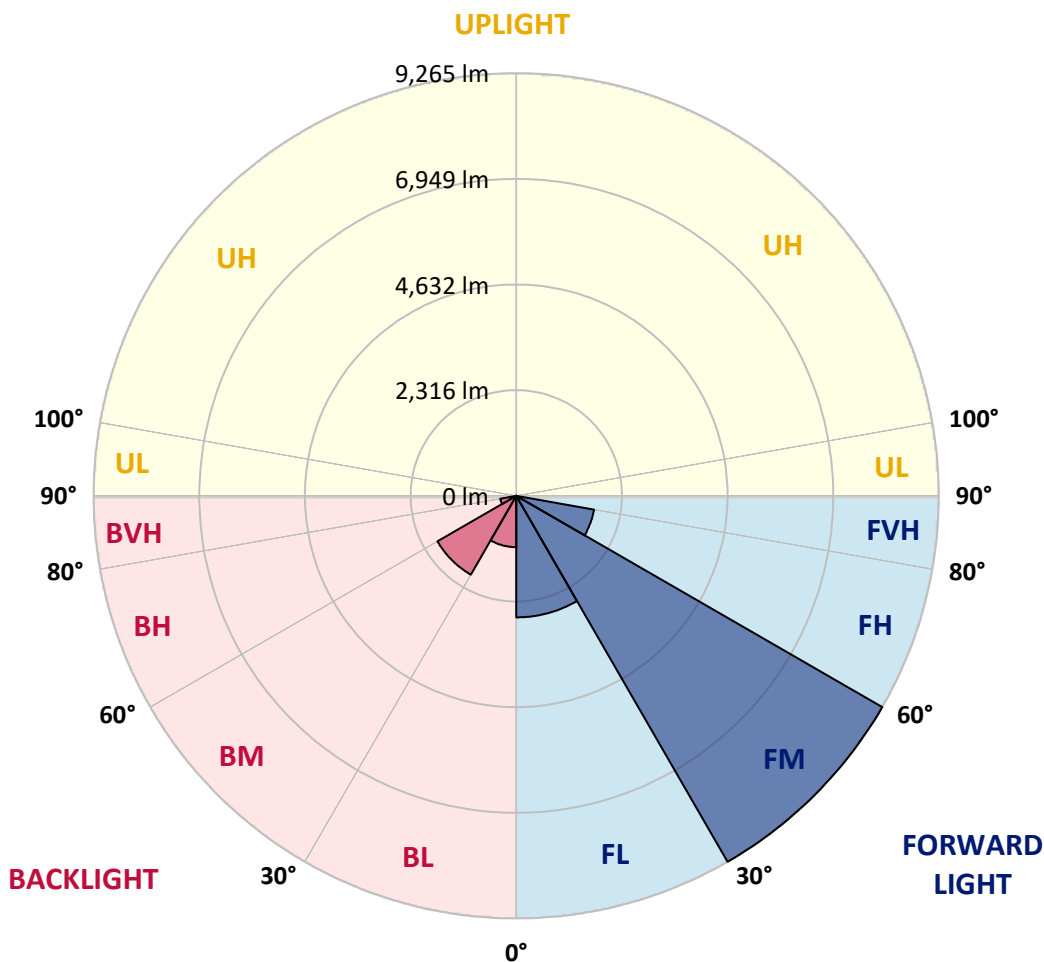
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2664.7	15.5			
FM (30°-60°)	9264.9	54.0			
FH (60°-80°)	1731.3	10.1			G1/1800
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	1126.2	6.6	B3/2500		
BM (30°-60°)	1994.7	11.6	B2/2500		
BH (60°-80°)	356.2	2.1	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: 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°	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1
2.5°	9205.2	9232.2	9380.7	9566.2	9664.1	9886.8	9731.6	9772.1	9687.7	9390.8	9158.0
5°	8925.1	8921.7	9110.8	9569.6	10004.9	10446.9	10460.5	10224.3	9809.2	9353.6	8702.4
7.5°	8081.6	8213.1	8408.9	9141.1	9947.5	10278.2	10436.8	10160.1	9522.4	8871.2	8165.9
10°	7443.8	7511.3	7842.0	8726.1	9316.5	9758.6	9856.5	9697.8	9208.5	8395.3	7605.7
12.5°	7076.0	7109.7	7497.8	8240.1	8864.4	9191.7	9238.9	9313.2	8962.2	8199.7	7251.4
15°	7079.3	7106.4	7629.4	8250.2	8496.6	8408.9	8564.1	8560.7	8712.5	8162.5	7548.4
17.5°	7588.9	7619.3	8091.7	8398.7	8290.7	8084.9	8074.8	8230.0	8550.6	8624.8	7997.2
20°	8466.2	8537.0	8884.6	8867.8	8260.4	7845.3	7730.6	7848.7	8594.4	9016.2	8901.5
22.5°	9647.3	9745.1	9988.0	9522.4	8398.7	7683.3	7646.2	7875.7	8884.6	9890.2	9927.3
25°	11017.2	11182.6	11300.6	10703.4	8891.4	7963.4	7788.0	8182.7	9276.0	10838.4	11233.2
27.5°	11924.9	12097.0	12070.0	11216.3	9222.1	8037.7	7889.2	8257.0	9616.9	11064.5	11914.8
30°	12633.5	12738.2	12927.1	11493.0	9552.8	8246.9	7993.8	8570.8	9728.2	11455.9	12738.2
32.5°	13460.2	13531.1	13544.6	11982.2	10062.3	8510.1	8317.7	8962.2	10220.9	11830.4	13467.0
35°	14293.7	14398.3	14179.0	12586.3	10376.1	8999.3	8857.6	9640.5	10615.7	12218.5	14270.1
37.5°	15198.0	15252.0	14745.8	12836.0	10824.9	9795.7	9718.1	10372.7	11300.6	12920.4	15160.9
40°	15957.2	16007.9	15349.9	13143.0	11297.3	10909.2	11108.3	11769.7	12231.9	13375.9	15606.3
42.5°	16379.0	16497.2	15552.3	12974.3	12245.5	12171.3	13055.4	13288.1	13311.8	13504.1	16004.5
45°	16493.7	16439.8	15218.3	13112.7	13075.6	14246.5	15049.6	15356.6	14384.8	13740.3	16105.8
47.5°	15964.0	16034.9	14725.6	12991.2	14165.5	15818.9	16858.2	17428.5	15184.6	13534.5	15856.0
50°	15535.4	15444.4	14567.0	12903.4	14459.0	16561.2	18164.0	18292.3	15920.1	13787.5	15582.7
52.5°	15619.8	15677.1	14820.1	13136.3	14465.8	16605.2	18366.5	18278.8	15943.8	13730.2	15484.8
55°	15798.7	15545.6	14712.1	12623.4	13497.4	15380.2	16301.4	16166.4	14715.5	13119.4	15245.2
57.5°	13632.3	14023.8	13527.7	11270.3	11078.0	11587.5	11570.6	11985.7	10976.7	11290.5	13878.7
60°	11064.5	11131.9	11317.6	9640.5	7666.5	7491.0	7248.1	6984.9	7386.4	9654.0	12623.4
62.5°	9731.6	9650.6	10312.0	8769.9	5412.4	4531.8	4491.2	4653.2	5699.2	9208.5	11840.5
65°	7072.6	7173.8	7653.0	6806.1	4062.7	3458.7	3398.0	3877.1	4612.7	7379.7	9036.4
67.5°	4319.2	4514.9	4558.7	4197.7	2756.9	2190.0	2102.2	2537.5	3330.5	4774.7	5297.7
70°	1994.2	2230.5	2453.1	2291.2	1596.1	900.9	850.3	1066.3	1680.4	2746.7	2810.8
72.5°	604.0	607.4	850.3	887.5	516.3	202.5	178.8	236.2	570.3	907.7	954.9
75°	43.8	47.2	114.7	131.6	97.9	50.6	54.0	64.1	121.4	202.5	151.8
77.5°	3.4	3.4	3.4	16.8	30.4	33.7	43.8	50.6	64.1	74.2	67.5
80°	3.4	0.0	3.4	13.5	23.6	33.7	40.5	47.2	50.6	57.4	50.6
82.5°	0.0	0.0	0.0	10.1	23.6	33.7	37.1	50.6	57.4	67.5	57.4
85°	0.0	0.0	0.0	10.1	23.6	37.1	33.7	16.8	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°	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1
2.5°	9198.4	9066.8	8766.5	8614.7	8257.0	8206.4	7855.4	7798.1	7680.0	7615.8	7460.7
5°	8415.6	8257.0	7767.8	7356.1	6876.9	6542.8	6286.4	6053.5	5918.6	5793.7	5851.1
7.5°	7777.9	7315.6	6772.3	6083.9	5530.6	5172.9	4781.5	4460.9	4271.9	4143.7	4174.1
10°	7109.7	6809.4	6053.5	5280.9	4612.7	4359.7	4052.6	3806.2	3539.7	3310.2	3202.2
12.5°	6900.5	6455.1	5506.9	4720.7	4214.6	3968.2	3617.3	3333.9	2993.0	2712.9	2615.1
15°	6937.6	6509.1	5358.5	4518.2	3921.0	3495.8	3077.4	2726.5	2351.9	2156.2	2055.0
17.5°	7541.6	6799.3	5456.3	4305.6	3512.7	2922.2	2405.9	1960.5	1680.4	1478.0	1434.1
20°	8284.0	7426.9	5665.6	4150.4	3178.7	2324.9	1758.1	1373.4	1140.5	1106.8	1096.7
22.5°	9370.6	8452.7	6114.3	4045.8	2770.3	1812.0	1204.6	998.8	934.7	927.9	931.3
25°	10889.0	9738.3	6603.6	3958.1	2463.2	1397.0	985.3	847.0	826.7	816.6	833.4
27.5°	11547.0	10514.4	6863.4	3769.1	2183.2	1258.6	971.8	840.2	782.8	766.0	776.1
30°	12360.2	11030.7	7271.7	3445.2	1771.5	1035.9	907.7	914.5	887.5	803.1	776.1
32.5°	13440.0	11675.2	7477.6	3215.8	1582.6	857.1	664.8	610.7	681.6	695.1	718.7
35°	14131.7	12329.8	7582.2	3080.8	1484.7	732.3	563.5	512.9	496.0	499.4	512.9
37.5°	15417.3	13213.9	7713.7	2939.1	1410.5	637.8	509.5	462.3	438.6	438.6	452.2
40°	16186.7	13915.8	7892.6	2861.5	1336.3	580.4	462.3	421.8	401.5	401.5	408.3
42.5°	16379.0	14263.4	7831.9	2834.5	1251.9	566.9	421.8	391.4	367.8	364.4	361.0
45°	16723.2	14793.1	7842.0	2804.1	1164.2	516.3	398.2	364.4	330.7	327.3	323.9
47.5°	17101.2	15174.4	7862.2	2686.0	1079.8	431.9	415.1	337.5	296.9	290.2	290.2
50°	16777.2	15478.1	8037.7	2567.8	971.8	350.9	408.3	317.2	263.2	253.1	256.4
52.5°	16817.7	15835.8	8408.9	2402.6	836.9	280.1	330.7	300.3	239.6	222.7	226.1
55°	16169.8	15457.8	8459.5	2227.1	654.6	216.0	253.1	263.2	202.5	195.8	195.8
57.5°	13919.2	13089.1	7464.0	1805.3	431.9	178.8	182.2	229.4	175.5	168.7	172.1
60°	11911.4	10507.7	6006.3	1191.2	270.0	141.7	131.6	232.9	155.2	151.8	162.0
62.5°	10858.6	8634.9	4555.3	739.0	185.6	108.0	91.1	188.9	135.0	135.0	148.5
65°	7845.3	5800.5	2648.9	388.1	131.6	84.3	67.5	108.0	111.3	114.7	121.4
67.5°	4859.1	2928.9	1116.9	188.9	87.7	57.4	43.8	67.5	74.2	74.2	81.0
70°	2399.2	1167.5	371.1	108.0	67.5	47.2	30.4	37.1	37.1	33.7	37.1
72.5°	742.4	350.9	94.5	67.5	47.2	30.4	16.8	13.5	6.7	0.0	3.4
75°	84.3	67.5	60.8	47.2	30.4	13.5	3.4	0.0	0.0	0.0	0.0
77.5°	50.6	57.4	57.4	47.2	30.4	10.1	0.0	0.0	0.0	0.0	0.0
80°	40.5	43.8	47.2	43.8	27.0	13.5	0.0	0.0	0.0	0.0	0.0
82.5°	50.6	57.4	64.1	57.4	37.1	16.8	6.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.1	3.4	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°	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1
2.5°	7396.5	7322.3	7426.9	7271.7	7268.4	7271.7	7227.9	7187.3	7251.4	7423.5	7440.5
5°	5645.3	5803.8	5854.5	6019.9	5928.7	5793.7	5820.7	5729.6	5952.4	6050.2	5972.6
7.5°	4110.0	4099.8	4440.6	4460.9	4504.8	4508.1	4501.4	4322.6	4140.3	4180.8	4302.3
10°	3188.8	3016.7	3182.0	3165.1	3273.1	3242.7	3286.6	3094.3	3158.4	3158.4	3236.0
12.5°	2598.2	2416.0	2385.6	2341.8	2385.6	2402.6	2419.4	2382.3	2490.3	2540.9	2594.9
15°	1984.1	1882.9	1855.9	1771.5	1785.0	1832.3	1872.8	1889.6	1855.9	1933.5	1940.3
17.5°	1440.9	1437.4	1454.3	1451.0	1437.4	1427.3	1424.0	1380.1	1366.6	1373.4	1400.3
20°	1093.3	1120.3	1177.6	1235.0	1265.4	1228.3	1177.6	1103.4	1073.0	1079.8	1083.2
22.5°	934.7	975.1	1052.8	1116.9	1147.3	1079.8	988.7	924.6	911.1	907.7	904.3
25°	847.0	894.2	951.6	971.8	968.4	927.9	860.4	833.4	826.7	820.0	789.6
27.5°	799.8	816.6	826.7	850.3	860.4	833.4	816.6	776.1	769.4	769.4	749.1
30°	772.7	762.6	776.1	759.2	772.7	752.5	755.8	755.8	739.0	745.7	745.7
32.5°	718.7	722.1	722.1	688.3	698.5	674.9	698.5	718.7	722.1	725.4	752.5
35°	526.4	587.2	617.5	617.5	627.7	610.7	607.4	583.7	553.4	523.0	509.5
37.5°	462.3	485.9	526.4	550.0	566.9	553.4	523.0	485.9	469.0	455.5	442.0
40°	411.7	431.9	458.9	485.9	519.7	502.8	455.5	438.6	418.4	418.4	404.9
42.5°	371.1	381.3	398.2	438.6	475.8	442.0	408.3	394.8	384.7	381.3	378.0
45°	334.0	337.5	354.3	388.1	431.9	398.2	364.4	347.6	350.9	354.3	350.9
47.5°	300.3	307.1	317.2	357.7	384.7	367.8	330.7	320.6	320.6	320.6	323.9
50°	259.8	276.7	296.9	330.7	350.9	340.8	310.5	296.9	290.2	290.2	293.5
52.5°	232.9	246.3	273.3	313.8	340.8	323.9	293.5	273.3	259.8	256.4	263.2
55°	202.5	226.1	270.0	300.3	337.5	320.6	286.8	263.2	239.6	236.2	236.2
57.5°	182.2	219.3	259.8	296.9	327.3	313.8	286.8	256.4	226.1	222.7	222.7
60°	172.1	212.6	253.1	286.8	327.3	307.1	283.4	249.7	216.0	216.0	212.6
62.5°	162.0	199.1	239.6	273.3	313.8	296.9	273.3	239.6	205.9	205.9	199.1
65°	135.0	172.1	199.1	229.4	273.3	256.4	232.9	209.2	182.2	175.5	178.8
67.5°	94.5	118.1	145.1	175.5	202.5	195.8	185.6	168.7	145.1	141.7	138.4
70°	47.2	64.1	87.7	118.1	141.7	135.0	128.3	114.7	101.2	97.9	97.9
72.5°	6.7	20.3	37.1	54.0	74.2	77.6	74.2	70.9	67.5	64.1	67.5
75°	0.0	0.0	0.0	13.5	30.4	37.1	43.8	50.6	50.6	43.8	54.0
77.5°	0.0	0.0	0.0	0.0	3.4	16.8	33.7	43.8	54.0	47.2	64.1
80°	0.0	0.0	0.0	0.0	3.4	20.3	33.7	47.2	54.0	47.2	67.5
82.5°	0.0	0.0	0.0	0.0	3.4	23.6	33.7	43.8	50.6	47.2	60.8
85°	0.0	0.0	0.0	0.0	10.1	20.3	13.5	6.7	3.4	3.4	10.1
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: P648544

CATALOG NUMBER: GALN-SA7B-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1	8699.1
2.5°	7534.9	7774.5	8030.9	8128.8	8432.4	8661.9	8817.1	9151.2	9201.8	9205.2
5°	6053.5	6175.1	6613.7	6819.5	7271.7	7622.7	7997.2	8537.0	8898.2	8925.1
7.5°	4302.3	4639.7	4825.3	5361.8	5918.6	6468.6	7025.4	7653.0	8071.4	8081.6
10°	3462.0	3681.4	4012.1	4413.6	4882.6	5442.8	6185.2	6914.0	7339.2	7443.8
12.5°	2787.2	3171.9	3549.8	3964.9	4322.6	4744.4	5544.0	6515.8	6866.8	7076.0
15°	2146.0	2497.0	2942.4	3428.4	3833.3	4396.8	5307.8	6418.0	7008.5	7079.3
17.5°	1582.6	1896.3	2308.0	2767.0	3374.3	4174.1	5348.4	6914.0	7470.8	7588.9
20°	1137.2	1319.4	1643.3	2176.4	2949.2	3914.2	5388.8	7416.8	8263.8	8466.2
22.5°	900.9	975.1	1187.7	1660.2	2473.4	3641.0	5675.7	8378.5	9353.6	9647.3
25°	782.8	823.3	924.6	1309.3	2173.1	3613.9	6134.6	9532.5	10804.6	11017.2
27.5°	755.8	762.6	850.3	1201.3	2011.1	3435.1	6310.0	10352.5	11709.0	11924.9
30°	796.3	904.3	911.1	1015.7	1710.8	3080.8	6401.1	11145.5	12474.9	12633.5
32.5°	688.3	654.6	678.2	786.2	1504.9	2874.9	6573.2	11837.2	13348.9	13460.2
35°	479.1	502.8	556.8	681.6	1316.0	2659.0	6617.1	12599.8	14179.0	14293.7
37.5°	442.0	455.5	499.4	580.4	1157.4	2537.5	6556.4	13156.5	15039.4	15198.0
40°	411.7	428.5	452.2	526.4	1039.3	2402.6	6472.0	13659.4	15565.8	15957.2
42.5°	388.1	401.5	421.8	502.8	938.0	2267.6	6353.9	14368.0	16038.3	16379.0
45°	361.0	381.3	404.9	489.3	880.7	2176.4	6266.1	14324.0	16311.5	16493.7
47.5°	334.0	367.8	394.8	455.5	863.8	2132.6	6303.2	14158.8	16088.8	15964.0
50°	307.1	350.9	398.2	378.0	823.3	2044.9	6347.2	14384.8	15559.1	15535.4
52.5°	283.4	334.0	371.1	310.5	732.3	1960.5	6772.3	14681.7	15933.7	15619.8
55°	249.7	300.3	296.9	249.7	593.9	1896.3	7106.4	14688.5	15680.6	15798.7
57.5°	226.1	266.6	232.9	209.2	438.6	1586.0	6563.1	12316.4	13423.1	13632.3
60°	209.2	259.8	175.5	165.4	286.8	1143.9	5729.6	9539.3	10669.6	11064.5
62.5°	192.3	246.3	138.4	135.0	199.1	813.2	4710.6	7983.7	9195.1	9731.6
65°	168.7	175.5	111.3	104.6	141.7	438.6	2868.2	5496.8	6873.6	7072.6
67.5°	138.4	135.0	91.1	84.3	94.5	212.6	1265.4	2753.5	3985.1	4319.2
70°	111.3	111.3	77.6	67.5	67.5	97.9	330.7	1096.7	1801.9	1994.2
72.5°	81.0	84.3	60.8	54.0	50.6	47.2	54.0	219.3	472.4	604.0
75°	70.9	74.2	60.8	47.2	37.1	30.4	23.6	20.3	27.0	43.8
77.5°	77.6	77.6	64.1	43.8	33.7	23.6	13.5	6.7	6.7	3.4
80°	97.9	101.2	84.3	57.4	40.5	27.0	16.8	6.7	3.4	3.4
82.5°	104.6	114.7	94.5	70.9	50.6	30.4	16.8	3.4	0.0	0.0
85°	27.0	43.8	74.2	64.1	50.6	30.4	16.8	3.4	0.0	0.0
87.5°	0.0	3.4	10.1	10.1	13.5	13.5	10.1	3.4	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)