

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: P648326

Luminaire Tested: **GALN-SA3B-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648326
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-SA3B-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 9551.8 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

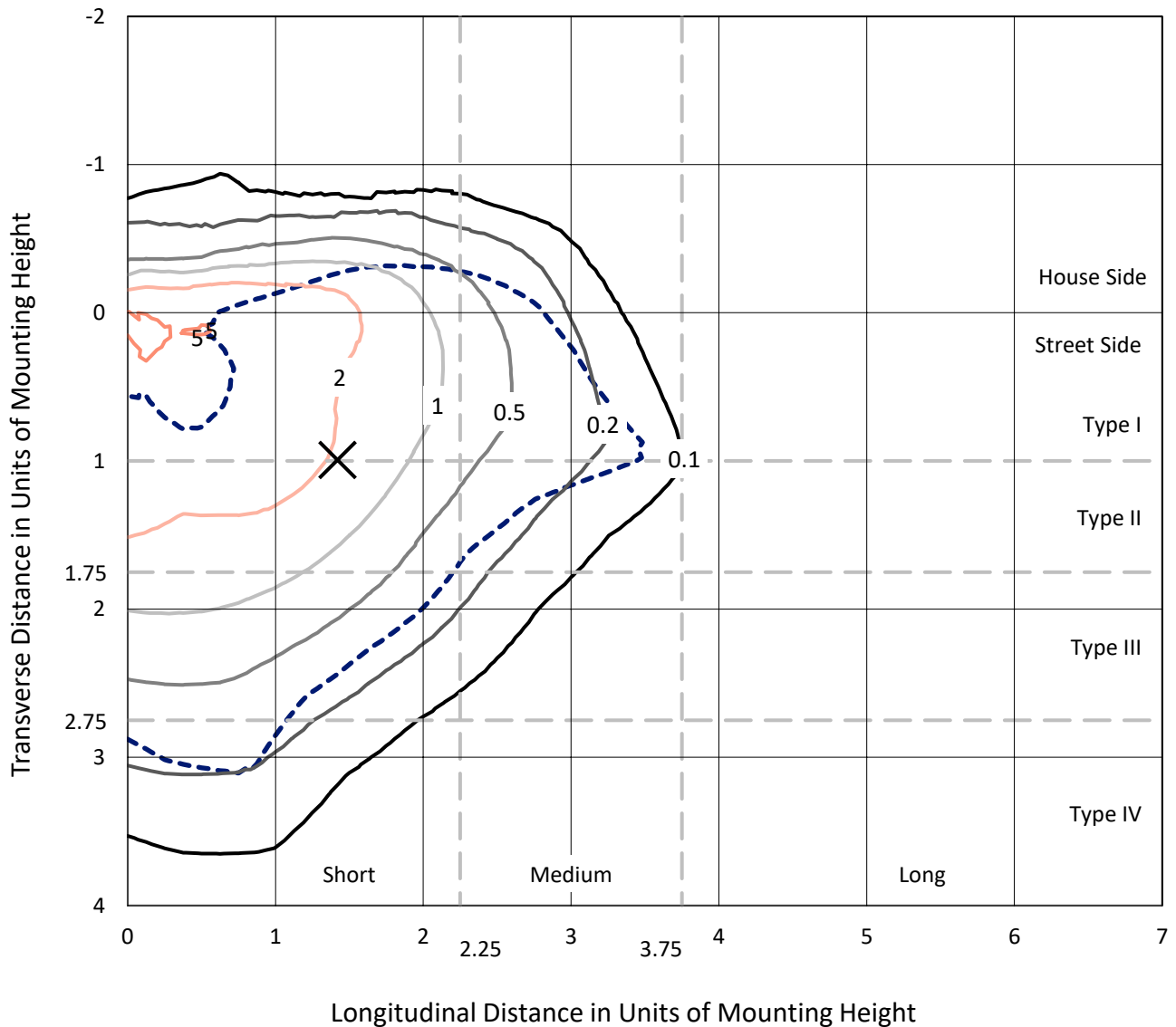
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648326
 CATALOG NUMBER: GALN-SA3B-835-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

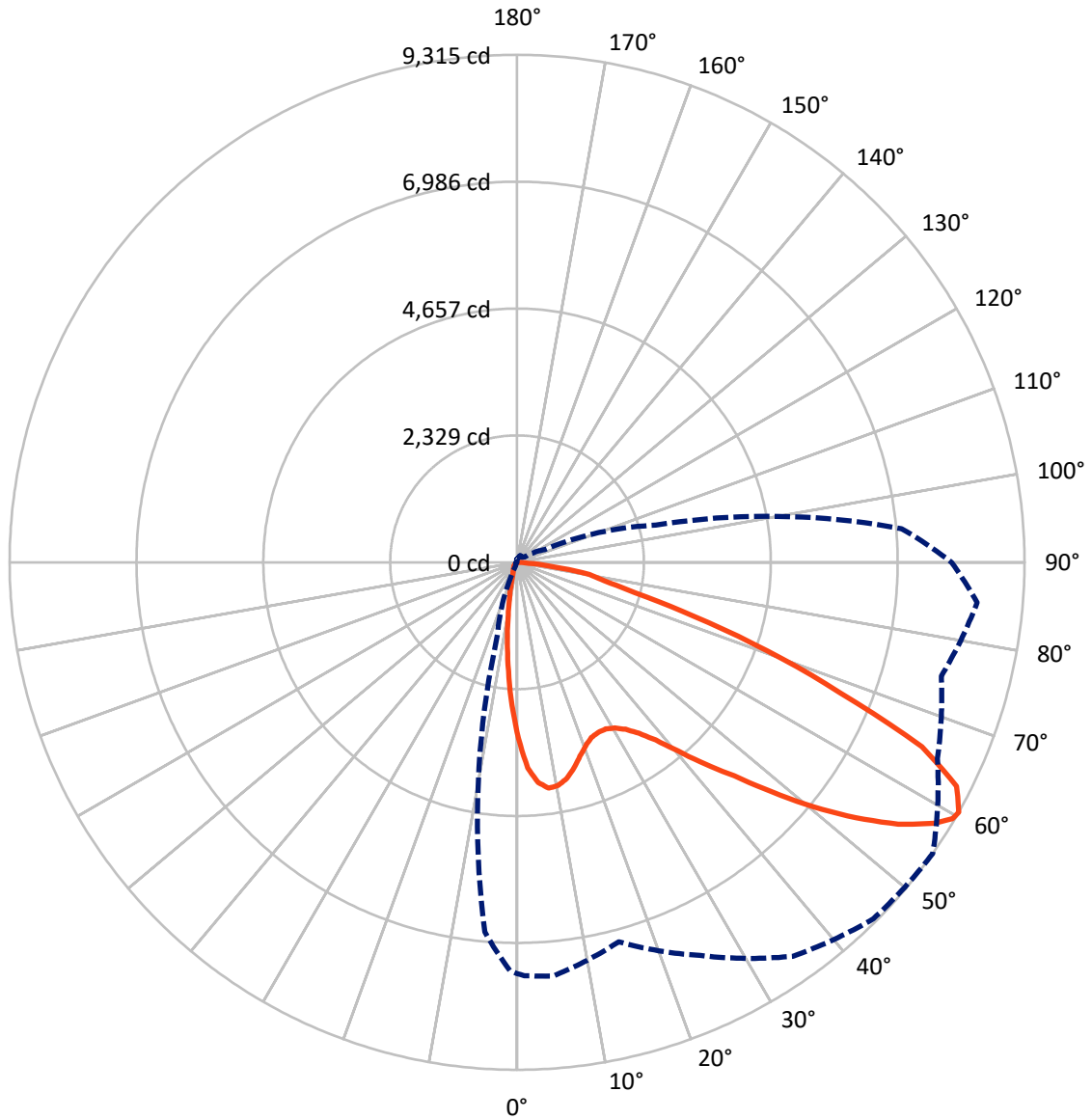
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

REPORT NUMBER: P648326
CATALOG NUMBER: GALN-SA3B-835-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648326
 CATALOG NUMBER: GALN-SA3B-835-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.6	0.0	1417.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	8134.2	0.0	8134.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	9551.8	0.0	9551.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.5	2.5
10°-20°	471.6	4.9
20°-30°	698.1	7.3
30°-40°	1040.6	10.9
40°-50°	1523.9	16.0
50°-60°	2200.1	23.0
60°-70°	2314.4	24.2
70°-80°	952.1	10.0
80°-90°	111.5	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°	9551.8	100.0
0°-180°	9551.8	100.0

Coefficient of Utilization



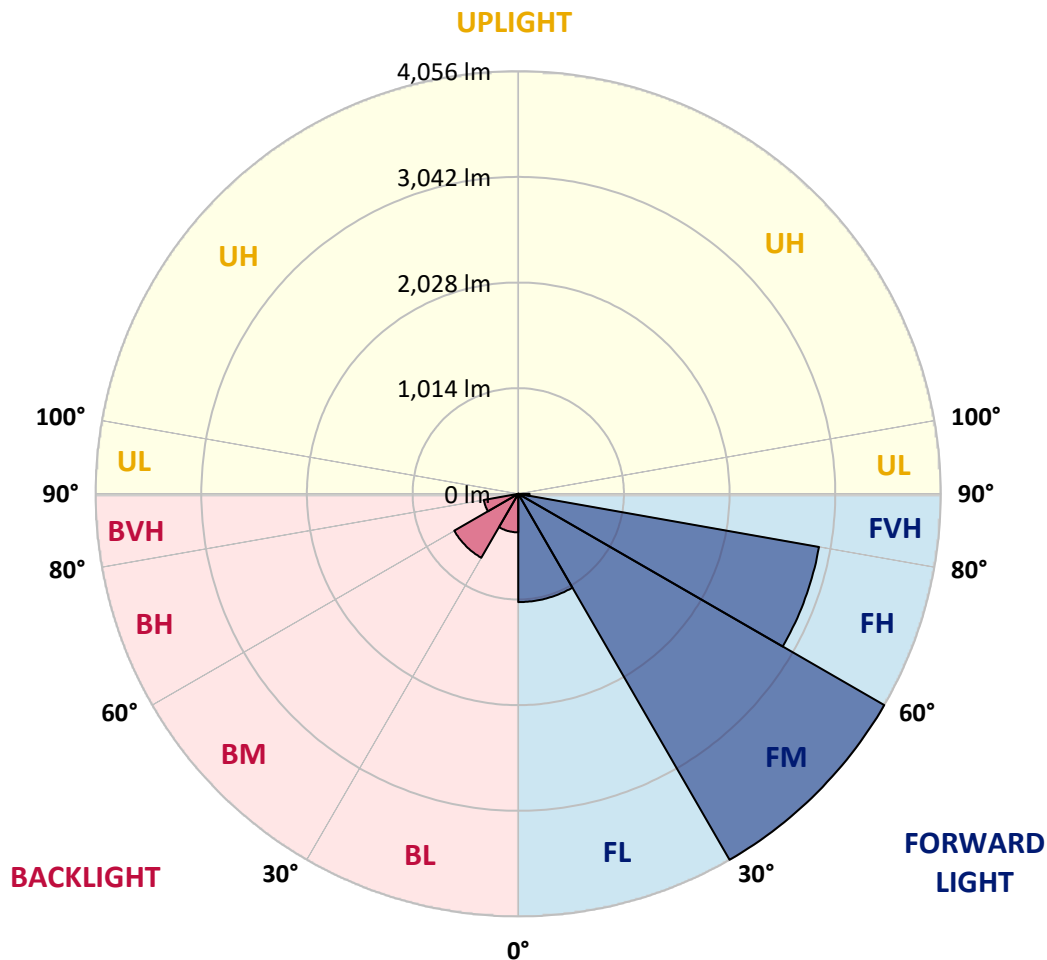
REPORT NUMBER: P648326
 CATALOG NUMBER: GALN-SA3B-835-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.4	10.9			
FM (30°-60°)	4055.7	42.5			
FH (60°-80°)	2930.9	30.7			G2/5000
FVH (80°-90°)	108.2	1.1			G2/225
BL (0°-30°)	369.9	3.9	B1/500		
BM (30°-60°)	708.9	7.4	B1/1000		
BH (60°-80°)	335.5	3.5	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P648326

CATALOG NUMBER: GALN-SA3B-835-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2
2.5°	3533.4	3527.6	3579.8	3665.1	3751.0	3795.9	3787.1	3783.5	3712.1	3659.9	3550.4
5°	3526.1	3556.2	3649.6	3880.5	4055.5	4140.0	4165.0	4059.9	3920.9	3719.5	3471.0
7.5°	3315.1	3352.6	3504.8	3865.7	4176.8	4360.6	4353.9	4185.6	3898.9	3587.2	3232.8
10°	3053.4	3097.5	3276.2	3714.3	4118.0	4360.6	4373.8	4160.6	3804.0	3404.1	3031.3
12.5°	2868.8	2921.0	3118.8	3573.1	3966.5	4205.4	4220.9	4066.5	3732.7	3333.5	2921.8
15°	2806.4	2855.6	3056.3	3501.8	3805.5	3934.2	3930.5	3914.3	3704.8	3350.4	2927.6
17.5°	2913.7	2954.1	3180.5	3534.1	3654.7	3641.5	3660.7	3738.6	3710.6	3492.3	3112.9
20°	3190.8	3232.0	3475.3	3633.4	3539.3	3455.5	3464.3	3594.4	3765.1	3759.2	3402.6
22.5°	3572.4	3642.3	3862.9	3826.1	3523.9	3340.1	3321.7	3490.8	3857.7	4066.5	3793.7
25°	4055.5	4126.0	4298.0	4133.4	3599.6	3312.9	3296.0	3459.2	3970.2	4366.5	4234.2
27.5°	4461.3	4514.9	4686.3	4432.6	3711.3	3324.6	3296.7	3463.6	4061.3	4621.6	4605.4
30°	4786.2	4825.9	4926.7	4572.3	3807.7	3376.1	3343.8	3528.3	4101.7	4745.8	4906.1
32.5°	5048.0	5114.9	5146.5	4721.6	3945.9	3473.2	3418.0	3652.5	4200.3	4899.5	5221.5
35°	5347.3	5424.5	5384.0	4864.2	4128.2	3624.6	3557.0	3854.0	4349.6	5041.3	5587.6
37.5°	5726.6	5815.6	5657.5	5014.2	4320.9	3852.5	3820.9	4137.1	4576.0	5244.3	5980.2
40°	6119.2	6170.7	5922.9	5196.5	4557.6	4184.1	4214.3	4557.6	4872.3	5487.7	6397.9
42.5°	6425.8	6474.3	6195.6	5349.5	4799.5	4577.5	4703.2	5064.9	5212.0	5736.9	6709.6
45°	6660.4	6701.5	6384.7	5516.3	5125.9	5147.3	5384.7	5587.6	5552.3	5889.1	6950.0
47.5°	6842.6	6878.0	6530.2	5695.7	5614.8	5844.2	6207.5	6293.4	5905.2	6053.8	7167.7
50°	6917.6	6928.0	6575.8	5924.4	6170.0	6732.4	7111.0	7058.8	6309.6	6236.8	7399.2
52.5°	7015.4	7013.3	6705.9	6142.0	6691.9	7526.4	7904.3	7785.9	6766.9	6511.1	7659.5
55°	7272.0	7275.0	6984.6	6450.8	7136.7	8167.6	8571.9	8485.8	7249.2	6974.3	7963.1
57.5°	7583.7	7594.8	7380.9	6811.8	7561.7	8632.2	9070.4	9037.3	7901.4	7489.6	8249.8
59°	7624.2	7646.2	7568.3	7066.2	7813.9	8774.8	9241.0	9273.3	8250.6	7829.3	8405.0
60°	7550.7	7587.4	7622.7	7210.3	7961.7	8826.3	9251.2	9314.5	8513.1	8060.2	8475.6
62.5°	7230.1	7288.2	7465.4	7653.6	8146.2	8666.0	8922.6	9054.9	8838.0	8666.7	8482.2
65°	6810.3	6840.4	7096.3	7732.3	7788.2	7917.5	7996.9	8166.8	8447.6	8900.5	8178.5
67.5°	6122.1	6211.1	6524.3	7275.7	6731.6	6578.7	6558.9	6389.7	7119.1	8343.3	7430.1
70°	5057.6	5097.3	5483.3	5964.8	5080.3	4845.0	4939.2	4876.0	5518.5	7182.3	5980.2
72.5°	3824.6	3914.3	4291.5	4754.6	3457.0	3151.9	3411.4	3387.9	4145.1	5772.2	4108.4
75°	2721.0	2779.1	3259.9	3720.9	2421.0	2051.2	2144.6	2232.1	2893.8	4557.6	2427.7
77.5°	1869.6	1919.7	2280.6	2460.7	1766.0	1691.7	1547.6	1632.2	1896.1	2704.1	1321.2
80°	1127.8	1125.6	1363.1	1407.2	1230.0	1428.5	1198.4	1345.4	1146.2	1157.2	511.7
82.5°	732.3	724.9	833.7	908.7	684.5	719.8	483.0	696.2	747.0	322.8	161.8
85°	327.9	341.9	400.7	528.6	300.0	159.6	98.5	213.9	318.4	162.5	0.0
87.5°	33.8	26.5	70.5	128.6	41.2	4.4	14.7	7.4	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: P648326

CATALOG NUMBER: GALN-SA3B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2
2.5°	3499.6	3457.0	3329.8	3210.7	3108.5	2983.5	2902.7	2775.4	2698.2	2674.7	2678.4
5°	3359.2	3236.5	2994.5	2801.2	2585.8	2463.0	2276.3	2096.9	1999.8	1963.8	1947.6
7.5°	3065.1	2933.5	2641.6	2338.0	2107.1	1891.7	1752.7	1594.7	1486.6	1397.7	1382.2
10°	2846.8	2673.9	2312.3	1985.8	1803.5	1641.7	1502.8	1344.7	1217.5	1116.1	1088.1
12.5°	2715.9	2522.5	2118.9	1845.4	1672.6	1506.5	1325.6	1142.6	1012.4	902.9	852.1
15°	2692.3	2468.1	2064.5	1744.7	1531.5	1330.7	1090.3	892.5	758.7	655.1	623.5
17.5°	2834.2	2565.9	2056.4	1639.5	1346.9	1062.4	812.4	648.5	497.8	439.7	416.9
20°	3087.2	2738.7	2055.7	1517.5	1157.2	818.3	570.5	422.7	361.7	333.8	320.6
22.5°	3432.0	2974.0	2094.6	1412.4	960.2	603.6	407.3	336.8	301.5	278.7	273.5
25°	3853.3	3322.4	2190.2	1341.0	809.5	473.5	336.0	288.2	258.8	248.5	244.1
27.5°	4227.5	3656.2	2295.4	1267.5	701.4	419.1	311.7	263.9	240.4	232.3	225.7
30°	4550.2	3959.2	2346.1	1170.4	614.7	383.7	316.2	282.3	251.4	227.1	216.2
32.5°	4819.4	4191.5	2379.1	1082.3	541.1	313.9	250.0	218.4	204.4	195.6	188.2
35°	5156.1	4442.9	2359.3	1032.2	503.6	286.0	227.9	188.2	164.7	147.0	139.7
37.5°	5509.0	4694.4	2324.7	991.0	486.7	265.4	216.9	178.7	152.9	134.5	125.0
40°	5874.4	4927.4	2284.3	952.8	471.3	252.2	210.2	170.5	144.9	125.0	114.7
42.5°	6208.9	5154.6	2268.1	927.9	446.3	254.4	205.1	166.9	136.7	116.2	107.3
45°	6479.5	5370.0	2290.2	914.6	419.1	250.7	206.6	162.5	130.1	110.2	101.5
47.5°	6768.4	5674.4	2361.5	901.4	392.6	233.1	217.6	161.8	127.2	106.6	97.0
50°	7104.4	6064.1	2524.7	869.1	360.3	213.9	231.6	161.0	123.5	102.2	92.6
52.5°	7552.1	6506.7	2693.1	812.4	313.2	195.6	221.3	158.8	116.2	97.0	87.5
55°	7954.3	6972.8	2835.7	745.5	253.6	169.1	199.3	149.2	103.7	88.2	79.4
57.5°	8120.5	7236.0	2831.3	652.9	203.0	148.5	164.0	136.7	90.4	77.9	70.5
59°	8059.4	7202.9	2736.5	584.5	185.3	137.5	136.0	135.3	84.6	70.5	64.7
60°	7973.4	7082.3	2634.2	550.7	174.2	130.1	125.0	133.8	79.4	66.2	60.3
62.5°	7644.0	6582.4	2295.4	493.4	159.6	110.2	100.0	113.2	70.5	57.3	52.2
65°	7166.9	5814.1	1943.2	477.2	155.1	91.1	83.1	80.9	60.3	48.5	44.1
67.5°	6236.1	4920.1	1574.1	466.1	156.6	76.5	72.8	61.0	50.0	40.4	37.5
70°	4992.9	3836.4	1288.8	453.6	158.1	62.5	61.0	48.5	40.4	33.8	30.9
72.5°	3033.5	2274.0	1014.6	394.1	153.6	50.0	54.4	36.7	29.4	24.3	22.8
75°	1875.5	1556.4	629.4	306.6	101.5	36.7	38.2	22.8	19.9	15.4	15.4
77.5°	1086.6	983.0	225.0	110.2	44.9	22.1	16.9	11.7	11.0	6.7	6.7
80°	450.7	361.0	77.9	37.5	24.3	10.3	3.7	0.7	0.0	0.0	0.0
82.5°	131.6	116.9	21.3	16.9	7.4	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: P648326
 CATALOG NUMBER: GALN-SA3B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2
2.5°	2615.9	2591.7	2580.6	2618.1	2583.6	2627.7	2593.8	2608.6	2651.9	2671.0	2720.3
5°	1957.9	1932.9	1921.1	1977.7	1974.8	2002.8	1999.8	2025.5	2047.5	1998.3	2049.0
7.5°	1363.8	1346.9	1374.9	1419.0	1466.0	1450.6	1450.6	1416.1	1427.8	1420.4	1418.2
10°	1037.4	979.3	964.6	963.2	980.8	984.5	964.6	916.8	934.4	939.6	970.5
12.5°	816.1	771.3	702.9	672.0	663.9	670.5	605.1	563.2	583.0	571.3	601.4
15°	585.2	548.5	508.0	473.5	463.9	450.7	379.4	329.4	323.5	325.7	330.8
17.5°	417.6	392.6	392.6	355.9	336.0	296.3	260.3	238.2	236.0	238.2	241.9
20°	308.0	294.8	293.4	283.8	261.8	235.3	210.2	205.9	204.4	208.0	209.5
22.5°	265.4	251.4	239.7	239.0	218.4	196.3	184.6	178.7	179.4	180.9	184.6
25°	237.5	222.8	210.2	203.0	188.2	172.8	161.8	158.8	158.8	161.0	161.8
27.5°	217.6	199.3	188.2	177.9	164.7	151.4	141.9	139.7	138.2	139.7	143.4
30°	203.7	185.3	171.3	155.9	145.6	133.1	125.0	122.1	121.3	122.1	125.0
32.5°	174.2	163.3	152.2	138.2	125.7	117.6	108.8	103.7	103.7	105.2	108.1
35°	131.6	125.7	125.0	121.3	111.0	102.2	91.9	86.8	86.8	89.7	91.1
37.5°	116.2	105.2	103.7	102.2	97.8	86.1	76.5	72.0	71.3	73.5	76.5
40°	105.9	93.3	86.8	85.3	86.1	72.8	62.5	58.1	58.1	58.8	61.8
42.5°	97.8	83.1	71.3	69.8	72.8	61.0	50.7	46.4	46.4	46.4	50.0
45°	91.1	74.2	60.3	52.9	57.3	50.0	41.2	36.7	35.3	36.7	38.2
47.5°	86.8	67.7	52.9	42.7	42.7	39.7	33.1	28.0	26.5	27.2	29.4
50°	83.1	61.8	44.9	34.5	30.9	31.6	25.0	21.3	19.9	19.9	22.1
52.5°	77.2	55.9	39.0	29.4	23.5	21.3	18.4	15.4	14.7	15.4	16.9
55°	69.8	50.7	33.8	24.3	18.4	14.7	13.2	11.0	10.3	11.0	13.2
57.5°	61.8	42.7	27.2	19.1	12.5	9.6	8.8	7.4	5.9	6.7	8.1
59°	56.6	38.2	23.5	15.4	9.6	6.7	6.7	5.2	3.7	4.4	6.7
60°	54.4	35.3	19.9	13.2	8.1	5.2	5.2	3.7	2.2	3.0	5.2
62.5°	46.4	29.4	15.4	8.1	3.7	0.7	2.2	0.7	0.0	0.7	2.2
65°	39.0	23.5	10.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	32.3	17.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	25.8	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	17.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.4	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: P648326
 CATALOG NUMBER: GALN-SA3B-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2
2.5°	2723.3	2828.4	2893.1	3015.1	3140.1	3236.5	3357.0	3465.1	3510.0	3533.4
5°	2100.5	2246.8	2371.1	2557.1	2729.9	2940.2	3153.4	3404.8	3501.1	3526.1
7.5°	1474.1	1623.4	1753.5	1968.9	2215.2	2496.8	2815.9	3135.0	3275.4	3315.1
10°	1064.6	1224.1	1382.9	1598.3	1828.5	2133.6	2465.9	2860.7	3022.5	3053.4
12.5°	672.0	843.3	1101.4	1367.5	1610.9	1856.4	2204.1	2633.5	2812.2	2868.8
15°	389.7	517.6	712.5	1059.5	1369.0	1693.9	2073.3	2548.3	2748.3	2806.4
17.5°	261.0	305.1	438.9	704.3	1113.1	1543.9	2040.3	2618.1	2839.4	2913.7
20°	219.9	239.7	286.7	429.4	857.2	1410.2	2049.0	2807.8	3098.2	3190.8
22.5°	193.4	211.7	241.9	308.8	598.4	1244.0	2090.9	3079.1	3454.0	3572.4
25°	170.5	188.9	215.4	255.9	402.1	1052.1	2182.8	3476.1	3925.3	4055.5
27.5°	151.4	168.3	191.1	225.7	309.5	838.1	2264.4	3862.9	4355.4	4461.3
30°	133.8	147.8	169.8	196.3	257.3	646.3	2305.6	4201.0	4668.6	4786.2
32.5°	116.2	129.4	150.7	172.0	211.7	492.6	2277.0	4449.6	4973.0	5048.0
35°	99.3	113.2	130.8	150.7	183.1	397.8	2133.6	4728.9	5288.4	5347.3
37.5°	85.3	97.0	115.4	130.8	165.4	318.4	1960.1	4980.3	5642.1	5726.6
40°	72.0	83.8	102.2	116.2	152.2	250.7	1803.5	5259.7	6014.8	6119.2
42.5°	58.8	72.8	88.9	111.7	130.8	191.1	1613.8	5486.2	6294.9	6425.8
45°	47.1	62.5	80.1	111.0	113.9	145.6	1430.7	5662.7	6542.7	6660.4
47.5°	37.5	52.9	77.2	103.7	93.3	115.4	1326.3	5847.2	6748.5	6842.6
50°	30.1	44.1	80.9	91.1	77.9	97.8	1323.4	6053.1	6855.2	6917.6
52.5°	24.3	36.0	68.4	69.8	66.2	86.1	1402.8	6284.7	6964.0	7015.4
55°	20.6	30.1	44.9	51.4	59.6	77.9	1462.3	6641.2	7223.5	7272.0
57.5°	16.2	25.8	34.5	41.2	52.9	71.3	1470.4	6916.2	7552.1	7583.7
59°	13.9	22.1	30.9	36.7	48.5	66.9	1437.4	6933.1	7573.5	7624.2
60°	11.7	19.9	27.2	34.5	44.9	63.3	1401.3	6810.3	7494.1	7550.7
62.5°	8.8	15.4	19.9	28.0	36.7	54.4	1230.7	6381.7	7190.4	7230.1
65°	5.9	11.0	14.7	20.6	28.7	47.1	1002.9	5825.8	6721.4	6810.3
67.5°	3.7	8.1	11.7	15.4	23.5	39.7	714.6	4995.8	6064.8	6122.1
70°	2.2	5.2	8.8	12.5	18.4	31.6	424.2	3948.8	5045.8	5057.6
72.5°	1.5	3.7	5.9	8.8	14.7	28.7	205.9	2574.0	3684.2	3824.6
75°	0.7	2.2	3.7	6.7	11.7	23.5	98.5	1719.7	2680.6	2721.0
77.5°	0.0	0.7	2.2	4.4	8.8	18.4	57.3	1129.3	1827.8	1869.6
80°	0.0	0.0	1.5	3.7	6.7	11.7	34.5	666.1	1107.2	1127.8
82.5°	0.0	0.0	0.7	3.0	4.4	8.8	17.6	292.6	724.9	732.3
85°	0.0	0.0	0.7	3.0	3.7	5.9	6.7	39.7	322.0	327.9
87.5°	0.0	0.0	0.7	3.7	3.7	3.7	3.7	2.2	27.2	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)