

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: P648107

Luminaire Tested: **GALN-SA8A-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24923.7 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

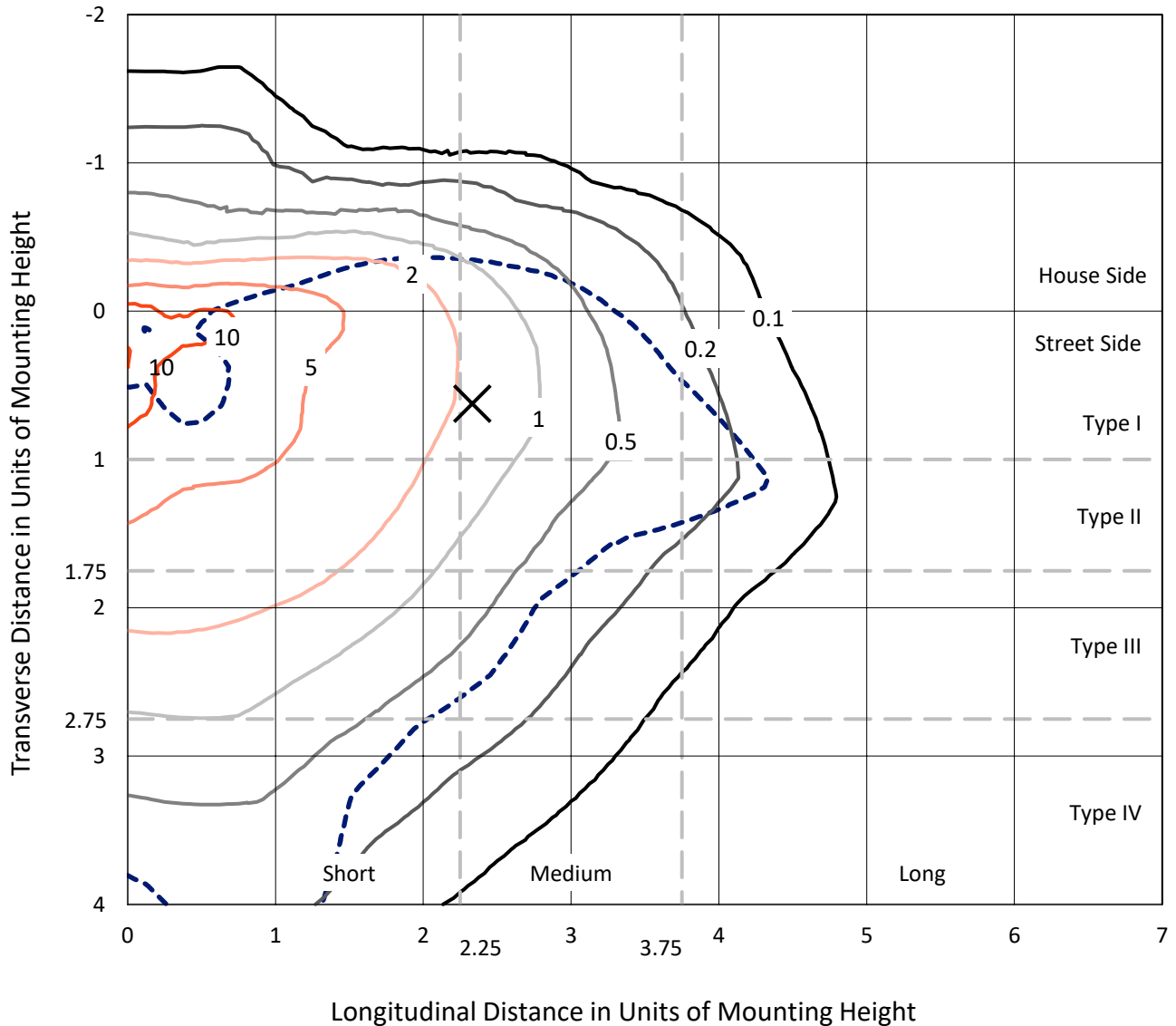
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648107
 CATALOG NUMBER: GALN-SA8A-835-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

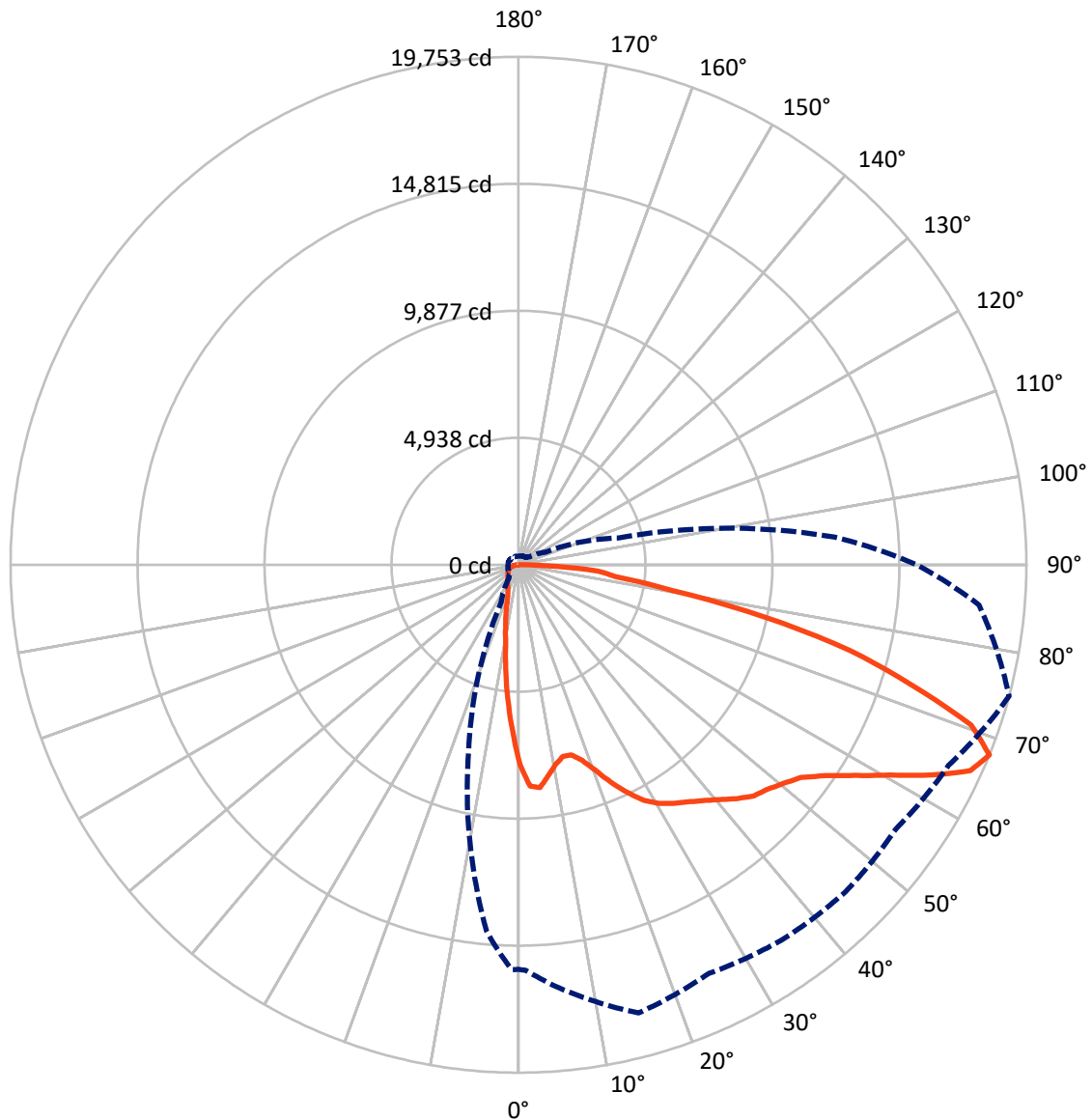
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P648107
CATALOG NUMBER: GALN-SA8A-835-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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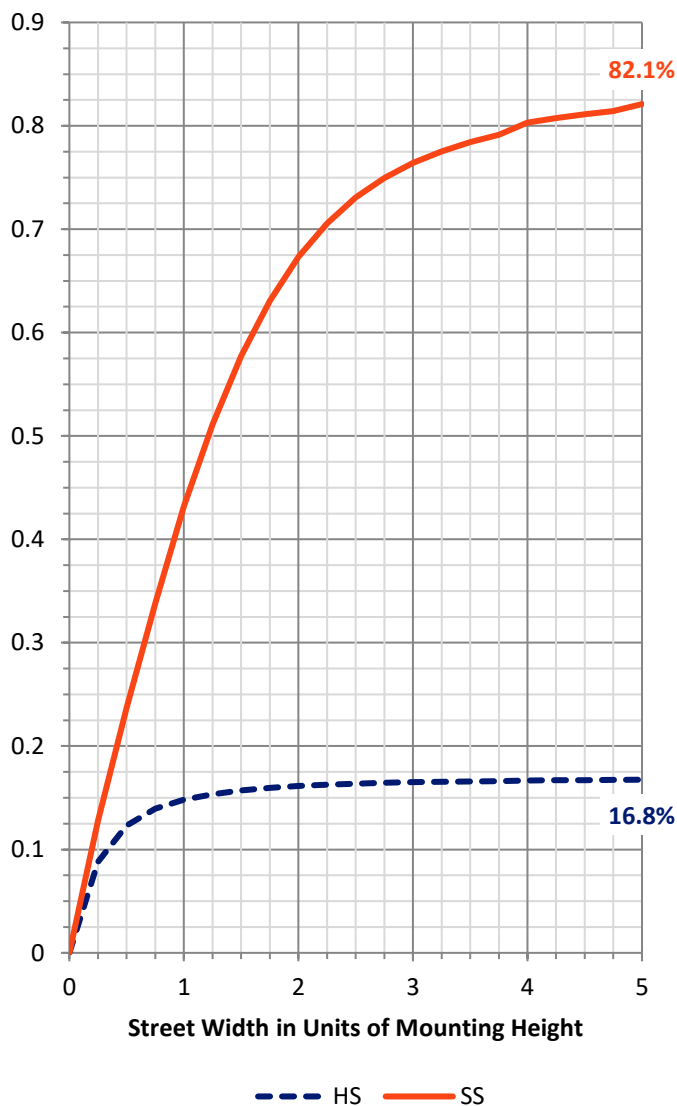
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4212.6	0.0	4212.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	20711.0	0.0	20711.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	24923.7	0.0	24923.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.6	2.4
10°-20°	1231.7	4.9
20°-30°	1772.5	7.1
30°-40°	2552.8	10.2
40°-50°	3586.0	14.4
50°-60°	5001.3	20.1
60°-70°	5946.2	23.9
70°-80°	3502.0	14.1
80°-90°	740.5	3.0
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°	24923.7	100.0
0°-180°	24923.7	100.0

Coefficient of Utilization

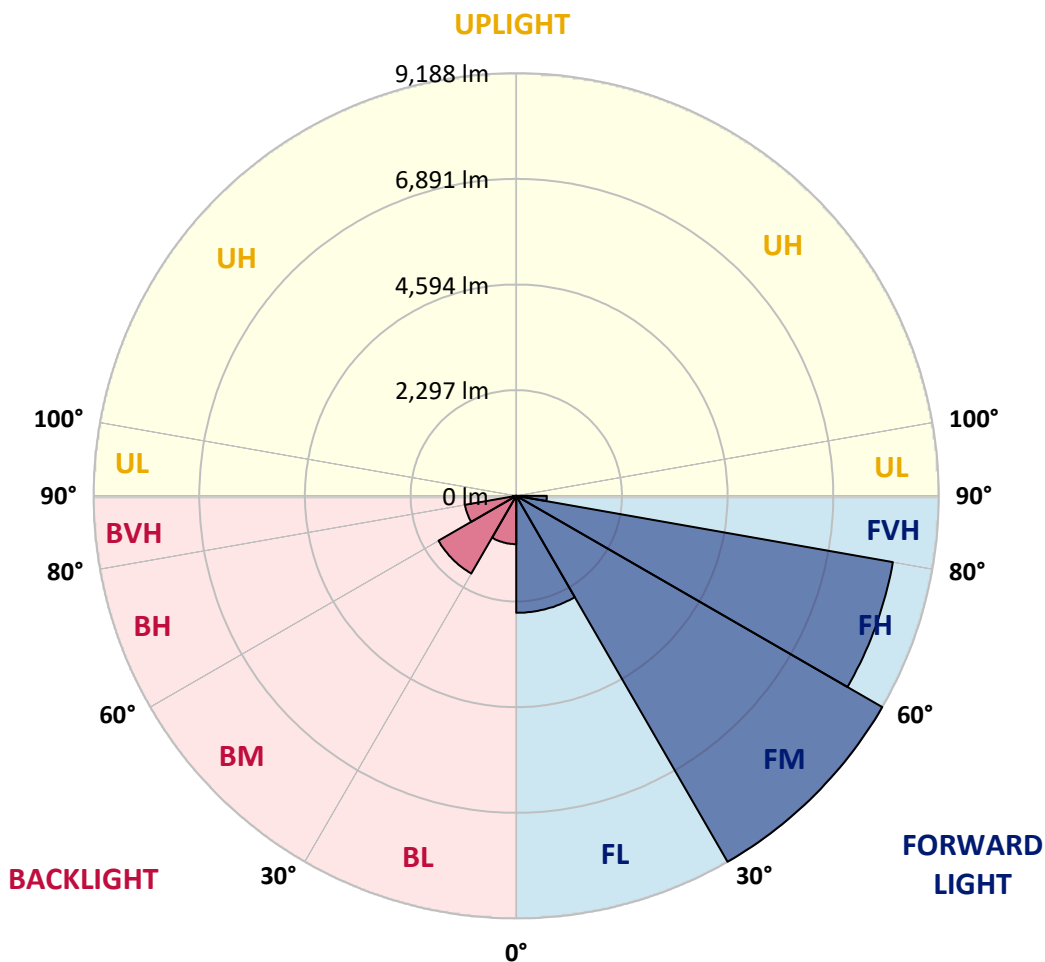


REPORT NUMBER: P648107
 CATALOG NUMBER: GALN-SA8A-835-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2544.0	10.2			
FM (30°-60°)	9188.4	36.9			
FH (60°-80°)	8314.6	33.4			G4/12000
FVH (80°-90°)	663.9	2.7			G4/750
BL (0°-30°)	1050.8	4.2	B3/2500		
BM (30°-60°)	1951.7	7.8	B2/2500		
BH (60°-80°)	1133.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	76.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





REPORT NUMBER: P648107
 CATALOG NUMBER: GALN-SA8A-835-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8
2.5°	8395.7	8406.8	8478.8	8688.2	8832.0	8884.8	8921.5	8852.8	8785.7	8622.6	8376.5
5°	8370.1	8435.7	8622.6	9092.5	9463.3	9623.1	9671.1	9464.9	9124.5	8705.8	8202.3
7.5°	7881.1	7969.0	8256.7	9044.6	9698.2	10072.3	10022.7	9650.3	9036.6	8290.2	7587.0
10°	7300.8	7398.3	7745.2	8697.7	9540.1	10054.7	10054.7	9600.8	8785.7	7898.6	7088.3
12.5°	6840.6	6942.9	7339.2	8341.4	9210.8	9698.2	9779.7	9389.8	8605.1	7650.9	6760.7
15°	6688.7	6787.8	7214.6	8125.6	8862.4	9159.7	9186.9	9059.0	8517.2	7668.5	6746.2
17.5°	6877.3	7005.2	7436.7	8189.5	8542.7	8560.3	8581.1	8681.7	8526.7	7989.7	7037.1
20°	7422.4	7559.8	8010.5	8395.7	8263.0	8080.8	8092.0	8350.9	8640.2	8520.4	7732.4
22.5°	8208.7	8328.5	8790.4	8758.5	8144.8	7769.2	7690.9	8052.1	8808.0	9182.0	8472.4
25°	9057.4	9198.0	9728.6	9297.1	8178.4	7583.7	7534.2	7876.3	8982.3	9800.6	9327.5
27.5°	10029.1	10166.6	10585.3	9840.5	8354.1	7569.4	7510.2	7860.3	9138.9	10372.7	10144.2
30°	10751.5	10877.8	11162.3	10297.6	8569.9	7665.3	7591.7	7986.5	9273.1	10764.3	10940.2
32.5°	11318.9	11450.0	11605.0	10582.1	8854.4	7839.5	7703.6	8216.6	9448.9	11063.2	11529.9
35°	11910.3	12065.3	12054.1	10834.6	9119.7	8040.9	7908.2	8549.1	9725.4	11323.7	12277.8
37.5°	12659.9	12722.2	12642.2	11061.6	9437.7	8403.7	8330.2	9042.9	10118.6	11638.6	13152.1
40°	13420.6	13545.3	13134.5	11336.5	9824.5	9086.2	9078.2	9773.4	10585.3	12007.8	13999.2
42.5°	14072.7	14178.2	13594.8	11576.3	10292.8	9918.8	9979.6	10753.1	11197.4	12436.1	14680.1
45°	14563.4	14657.7	14020.0	11808.0	10909.8	10881.0	11239.0	11803.2	11969.4	12821.3	15079.6
47.5°	14980.5	15071.7	14315.7	12159.6	11672.1	12030.2	12653.4	12898.0	12629.5	13041.8	15527.1
50°	15332.2	15359.3	14518.6	12578.3	12618.3	13438.2	14042.3	14200.6	13281.6	13358.3	15915.5
52.5°	15698.1	15663.0	14868.6	13105.8	13641.2	14774.3	15213.8	15378.5	13906.5	13748.3	16481.3
55°	16518.1	16551.6	15653.4	13770.6	14675.3	16086.5	16665.1	16506.9	14598.6	14465.9	17200.6
57.5°	17509.0	17480.2	16757.8	14811.1	15728.5	17307.6	17739.2	17485.0	15522.3	15452.0	17929.4
60°	17894.1	17932.5	17681.6	15929.9	16767.4	18376.9	18818.0	18423.2	16630.0	16598.0	18479.1
62.5°	17507.4	17723.1	17892.6	16925.6	17652.8	19163.2	19601.2	19150.4	17785.5	18017.2	18864.3
65°	16737.0	16783.4	17360.4	17769.5	18079.5	19292.7	19521.2	19281.5	18750.8	19310.3	18846.7
67.5°	15736.5	15776.4	16452.6	18046.0	17529.8	17822.3	17982.1	17911.8	18451.9	19753.0	17978.9
70°	14784.0	14752.0	15466.4	17341.2	15260.2	14815.9	14948.6	14728.0	15921.9	18670.9	16276.7
72.5°	12930.0	13045.0	13812.2	15381.7	12082.9	11360.5	11649.8	11079.1	12245.9	15990.7	13211.2
75°	10128.2	10155.4	11435.6	12909.2	9114.9	7975.3	8366.9	8128.8	9380.2	13339.1	9122.9
77.5°	7013.2	6952.4	8328.5	9859.7	6500.2	5838.4	5844.9	5731.4	6549.7	9821.3	6198.1
80°	4454.3	4361.7	5213.5	6091.0	4467.2	4778.8	4622.2	4617.4	4264.1	6059.0	3747.9
82.5°	2407.0	2509.3	3294.0	3818.2	3204.5	3693.6	3385.1	3286.0	2926.4	3792.7	2397.4
85°	1096.4	1192.3	1756.5	2597.2	2434.2	2461.4	1644.6	1940.3	2421.3	3079.9	1280.2
87.5°	107.1	137.4	362.8	1225.9	831.1	655.3	244.5	471.5	608.9	1094.8	102.3
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: P648107
 CATALOG NUMBER: GALN-SA8A-835-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8
2.5°	8275.8	8192.7	7909.8	7676.5	7428.7	7240.2	6994.0	6829.4	6715.9	6544.9	6524.1
5°	7895.5	7692.4	7200.2	6698.3	6265.2	5939.1	5608.3	5304.7	5125.6	5069.7	4997.8
7.5°	7254.5	6912.5	6279.6	5704.2	5207.2	4721.3	4347.3	4081.9	3904.6	3800.7	3676.0
10°	6727.1	6330.7	5560.4	4855.5	4446.3	4144.3	3815.1	3530.5	3311.6	3124.6	3022.3
12.5°	6372.3	5924.8	5058.5	4486.4	4169.9	3848.6	3463.4	3143.8	2820.9	2608.3	2517.3
15°	6265.2	5792.1	4903.5	4302.5	3848.6	3428.3	2996.8	2579.6	2260.0	2058.6	1991.4
17.5°	6527.3	5955.1	4901.9	4058.0	3471.4	2969.6	2416.6	2025.0	1697.4	1547.1	1499.2
20°	7016.4	6268.4	4916.3	3816.7	3062.3	2355.8	1758.1	1436.8	1280.2	1216.3	1192.3
22.5°	7698.8	6746.2	4959.4	3578.5	2614.8	1809.2	1317.0	1154.0	1098.0	1086.8	1082.0
25°	8539.6	7337.6	5104.8	3364.3	2237.6	1380.9	1101.2	1027.7	995.7	984.5	982.9
27.5°	9313.1	8101.6	5280.6	3180.5	1873.2	1190.7	995.7	933.4	901.4	899.8	903.0
30°	10011.5	8740.9	5427.7	2974.4	1596.7	1058.1	927.0	864.7	834.3	832.7	842.3
32.5°	10615.7	9266.7	5536.4	2771.4	1443.2	976.6	864.7	797.6	772.0	767.2	772.0
35°	11261.3	9790.9	5486.9	2613.2	1355.3	909.4	818.3	752.8	722.4	708.1	708.1
37.5°	11998.1	10331.2	5402.2	2482.1	1315.4	853.5	778.4	714.4	684.0	669.7	668.1
40°	12802.1	10871.4	5285.5	2365.4	1275.4	819.9	751.2	684.0	647.3	632.9	629.7
42.5°	13511.8	11333.3	5189.6	2288.7	1209.9	826.3	727.2	661.7	615.4	596.2	594.5
45°	14128.7	11798.4	5171.9	2244.0	1155.6	816.7	720.8	644.1	589.8	569.0	565.8
47.5°	14611.3	12282.7	5272.6	2218.4	1096.4	765.5	762.4	632.9	567.4	545.0	541.8
50°	15199.5	12969.9	5502.8	2165.6	1042.1	717.6	805.6	631.3	549.8	521.0	513.0
52.5°	15982.7	13865.0	5814.5	2071.3	963.7	672.8	768.7	631.3	529.0	500.3	490.7
55°	17167.0	15006.1	6119.8	1938.7	853.5	613.7	693.7	612.1	498.7	473.1	466.7
57.5°	17951.7	15840.4	6314.7	1754.9	716.1	570.6	597.7	581.8	468.3	441.1	441.1
60°	17991.7	16064.2	6222.0	1523.2	629.7	530.6	519.4	586.5	441.1	412.3	409.1
62.5°	17531.4	15515.9	5739.4	1315.4	583.3	487.5	469.9	514.7	414.0	385.2	380.4
65°	16812.2	14117.5	4901.9	1216.3	557.8	449.1	423.5	422.0	385.2	358.0	351.6
67.5°	15490.4	12337.0	4027.6	1158.8	545.0	406.0	381.9	374.0	351.6	329.3	326.0
70°	13542.1	10332.8	3230.1	1134.8	538.6	361.2	342.0	332.5	313.3	295.7	294.1
72.5°	10535.7	8381.3	2665.9	1118.8	535.4	319.6	298.9	286.1	274.9	258.9	258.9
75°	7567.8	6166.1	2034.6	1008.5	495.5	274.9	252.5	244.5	228.6	215.8	218.9
77.5°	4770.8	4152.3	1339.3	741.6	383.6	220.6	201.4	196.6	183.8	166.2	177.4
80°	3222.1	2920.0	781.5	466.7	241.3	161.5	155.0	153.5	139.1	119.9	121.4
82.5°	2192.8	2151.3	406.0	265.3	139.1	94.3	91.1	94.3	78.3	63.9	63.9
85°	856.7	1170.0	191.8	103.9	44.8	14.4	20.7	22.4	12.8	6.4	8.0
87.5°	16.0	119.9	4.8	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: P648107
 CATALOG NUMBER: GALN-SA8A-835-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8
2.5°	6492.2	6477.8	6501.7	6399.5	6420.2	6458.6	6477.8	6489.0	6647.2	6610.4	6711.1
5°	5064.9	5050.5	5143.2	5156.0	5204.0	5194.3	5240.7	5251.9	5309.4	5330.2	5470.8
7.5°	3684.0	3746.3	3851.8	3906.2	3987.7	4013.3	3989.3	4048.4	3928.5	4014.8	4040.4
10°	2960.0	2884.9	2840.1	2964.8	2980.7	3099.0	3051.1	3012.7	3083.1	3086.3	3153.4
12.5°	2464.5	2303.1	2196.0	2231.2	2269.5	2320.7	2328.6	2405.4	2456.5	2504.5	2544.4
15°	1932.3	1876.4	1778.9	1730.9	1785.2	1806.1	1855.6	1919.5	1973.9	1988.3	2042.6
17.5°	1483.2	1492.8	1476.8	1448.0	1481.6	1497.6	1500.8	1502.3	1516.7	1507.2	1587.1
20°	1193.9	1227.4	1267.4	1273.8	1285.0	1293.0	1278.6	1224.3	1225.9	1259.5	1285.0
22.5°	1080.5	1086.8	1131.6	1145.9	1181.2	1166.7	1125.2	1099.6	1096.4	1104.4	1117.2
25°	990.9	1000.5	1032.5	1054.9	1082.0	1056.4	1026.1	1002.1	999.0	1006.9	1019.7
27.5°	911.0	925.4	954.2	976.6	1002.1	978.1	949.4	928.6	927.0	925.4	933.4
30°	847.0	863.1	883.9	909.4	927.0	906.2	879.1	867.9	866.2	863.1	866.2
32.5°	783.2	808.8	829.5	842.3	859.9	843.9	823.1	816.7	805.6	795.9	791.1
35°	711.2	738.4	770.4	786.4	803.9	787.9	773.5	746.4	727.2	725.6	728.8
37.5°	669.7	680.9	706.4	733.6	751.2	743.2	716.1	688.9	684.0	684.0	687.2
40°	632.9	637.7	648.9	684.0	716.1	692.0	658.5	650.5	650.5	648.9	650.5
42.5°	596.2	601.0	601.0	628.1	679.3	640.9	615.4	615.4	615.4	616.9	621.7
45°	562.6	564.2	562.6	581.8	629.7	597.7	580.2	585.0	588.2	591.3	594.5
47.5°	533.8	535.4	533.8	549.8	573.8	561.0	551.4	557.8	564.2	569.0	572.2
50°	508.2	506.7	509.8	519.4	530.6	533.8	527.4	537.0	540.2	546.6	554.6
52.5°	485.9	484.3	487.5	492.3	508.2	508.2	508.2	516.2	522.7	529.0	540.2
55°	460.3	461.9	466.7	473.1	493.8	490.7	492.3	498.7	505.0	514.7	521.0
57.5°	436.3	439.5	445.9	455.5	476.3	474.7	476.3	479.5	487.5	492.3	498.7
60°	409.1	415.5	423.5	429.9	450.7	449.1	457.1	463.5	468.3	468.3	471.5
62.5°	381.9	391.6	399.6	404.3	426.7	428.3	439.5	444.4	447.5	444.4	449.1
65°	354.8	369.2	372.4	378.8	401.1	402.8	415.5	426.7	423.5	420.3	428.3
67.5°	327.6	345.2	343.7	351.6	374.0	377.2	388.4	407.6	401.1	398.0	404.3
70°	297.3	310.1	311.6	316.5	346.8	342.0	359.6	377.2	372.4	374.0	374.0
72.5°	263.7	274.9	274.9	284.5	316.5	308.5	322.8	342.0	342.0	340.4	340.4
75°	223.8	230.1	236.5	251.0	284.5	274.9	284.5	302.1	305.3	302.1	302.1
77.5°	180.6	190.2	193.4	212.6	236.5	235.0	244.5	252.5	258.9	255.7	255.7
80°	127.9	137.4	150.3	171.0	185.4	190.2	195.0	201.4	204.6	204.6	207.8
82.5°	72.0	86.3	97.5	118.2	124.7	148.6	147.0	151.8	147.0	129.4	143.8
85°	16.0	30.4	43.1	54.3	62.3	86.3	91.1	102.3	84.7	78.3	78.3
87.5°	0.0	0.0	0.0	0.0	0.0	12.8	25.6	35.2	30.4	25.6	25.6
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: P648107
 CATALOG NUMBER: GALN-SA8A-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8	7786.8
2.5°	6795.8	6934.9	7102.7	7392.0	7594.9	7813.9	8034.4	8269.4	8331.7	8395.7
5°	5509.2	5782.5	5931.1	6319.5	6727.1	7244.9	7668.5	8132.0	8325.3	8370.1
7.5°	4173.1	4358.5	4748.4	5141.6	5646.7	6190.1	6839.0	7561.4	7786.8	7881.1
10°	3308.4	3560.9	3902.9	4324.9	4767.6	5352.6	6084.6	6928.5	7248.2	7300.8
12.5°	2816.1	3097.5	3469.9	3915.8	4334.5	4775.6	5514.0	6385.1	6727.1	6840.6
15°	2252.0	2592.4	3022.3	3492.2	3947.7	4430.4	5178.4	6161.3	6556.1	6688.7
17.5°	1769.3	2044.2	2509.3	3019.1	3559.4	4169.9	5108.1	6268.4	6754.2	6877.3
20°	1353.7	1550.3	1941.9	2480.5	3113.4	3912.6	5125.6	6672.7	7254.5	7422.4
22.5°	1170.0	1270.7	1508.8	2021.8	2729.9	3688.8	5197.6	7227.3	7929.0	8208.7
25°	1059.6	1112.4	1246.6	1582.3	2363.8	3471.4	5362.1	7973.8	8871.9	9057.4
27.5°	965.4	1003.7	1086.8	1328.1	2031.4	3270.0	5554.0	8801.6	9752.6	10029.1
30°	875.9	927.0	1005.3	1179.5	1818.8	3086.3	5795.3	9472.9	10494.2	10751.5
32.5°	807.1	858.2	930.2	1075.6	1638.2	2892.9	5939.1	10062.6	11100.0	11318.9
35°	751.2	794.4	869.4	992.5	1500.8	2745.8	5910.4	10531.0	11686.5	11910.3
37.5°	711.2	748.0	823.1	914.2	1396.9	2592.4	5896.0	11149.5	12400.9	12659.9
40°	674.5	712.8	781.5	863.1	1293.0	2411.8	5904.0	11763.2	13161.7	13420.6
42.5°	645.7	688.9	744.8	848.7	1185.9	2266.3	5904.0	12297.0	13823.4	14072.7
45°	621.7	668.1	722.4	847.0	1101.2	2156.1	5864.0	12755.8	14350.8	14563.4
47.5°	601.0	652.1	730.4	818.3	1080.5	2076.1	5828.9	13123.3	14780.8	14980.5
50°	586.5	647.3	776.7	784.7	1086.8	2052.2	5998.2	13586.9	15159.5	15332.2
52.5°	575.3	648.9	775.2	735.2	1075.6	2068.1	6351.5	14310.9	15685.4	15698.1
55°	553.0	647.3	735.2	679.3	1029.3	2095.3	6805.4	15362.5	16508.5	16518.1
57.5°	530.6	629.7	682.5	631.3	935.0	2095.3	7352.0	16358.2	17501.0	17509.0
60°	508.2	655.3	599.4	589.8	811.9	2056.9	7929.0	16796.1	17812.6	17894.1
62.5°	485.9	660.1	535.4	553.0	722.4	1964.2	8358.9	16311.9	17390.7	17507.4
65°	460.3	532.2	493.8	514.7	676.0	1809.2	8223.1	15424.9	16598.0	16737.0
67.5°	429.9	450.7	449.1	474.7	660.1	1580.7	7507.0	14302.9	15744.5	15736.5
70°	393.1	404.3	409.1	436.3	629.7	1403.3	6255.6	12846.8	14604.9	14784.0
72.5°	354.8	364.4	369.2	393.1	599.4	1302.6	4855.5	10841.0	12650.2	12930.0
75°	313.3	319.6	326.0	346.8	567.4	1154.0	3458.7	8275.8	9688.7	10128.2
77.5°	270.1	270.1	278.1	298.9	477.9	952.6	2320.7	5804.9	6564.0	7013.2
80°	218.9	220.6	217.4	239.8	351.6	652.1	1318.6	3877.4	4368.0	4454.3
82.5°	167.8	163.0	164.6	175.8	262.1	444.4	703.2	2408.6	2454.9	2407.0
85°	105.5	105.5	102.3	115.1	167.8	231.8	383.6	1475.2	1152.3	1096.4
87.5°	43.1	35.2	39.9	46.4	79.9	94.3	150.3	303.6	116.7	107.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)