

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: P532605

Luminaire Tested: **GALN-SA8A-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17073 lumens  
Efficiency: N/A  
Efficacy: 70.0 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

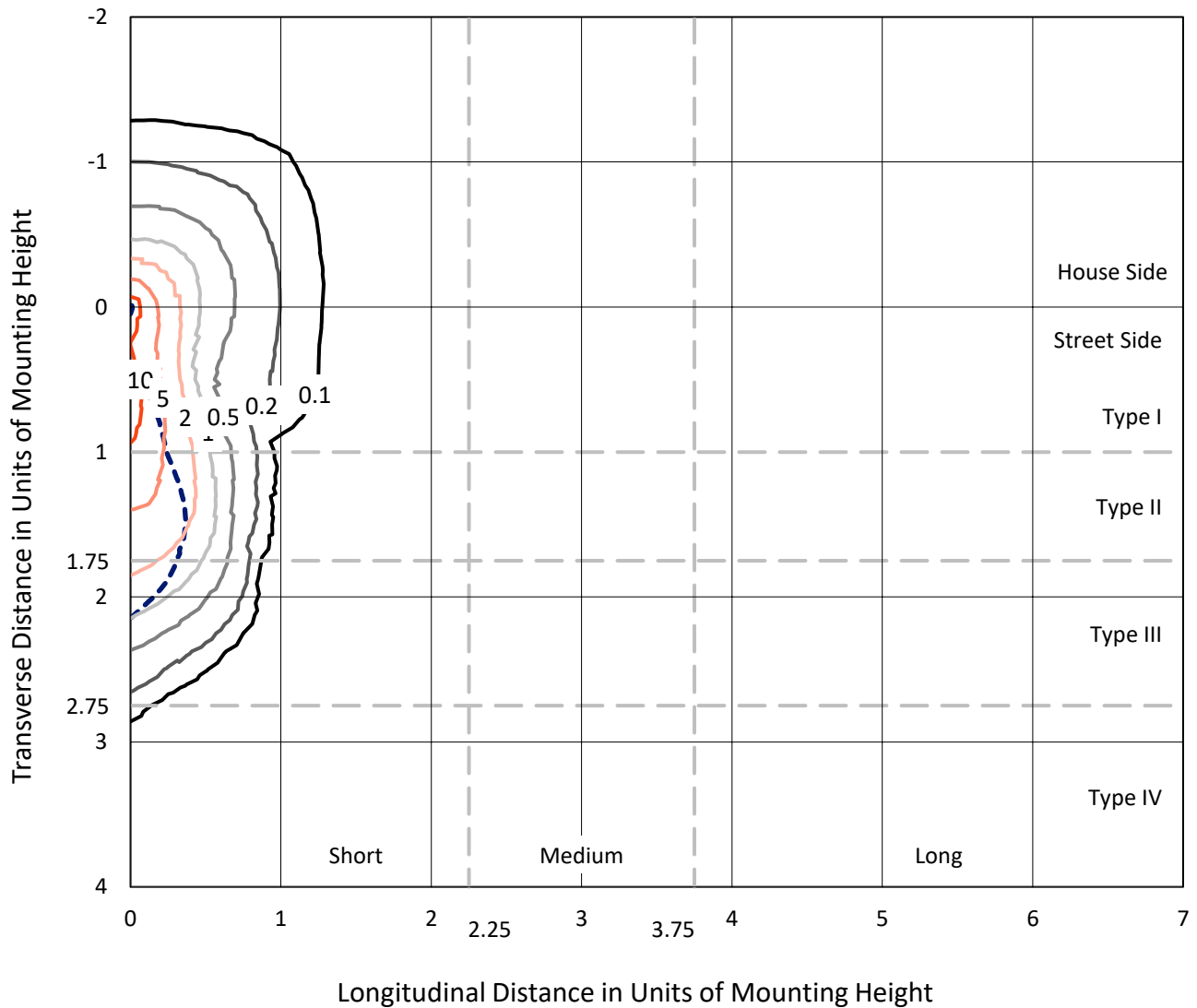
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532605  
 CATALOG NUMBER: GALN-SA8A-727-U-SLR-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

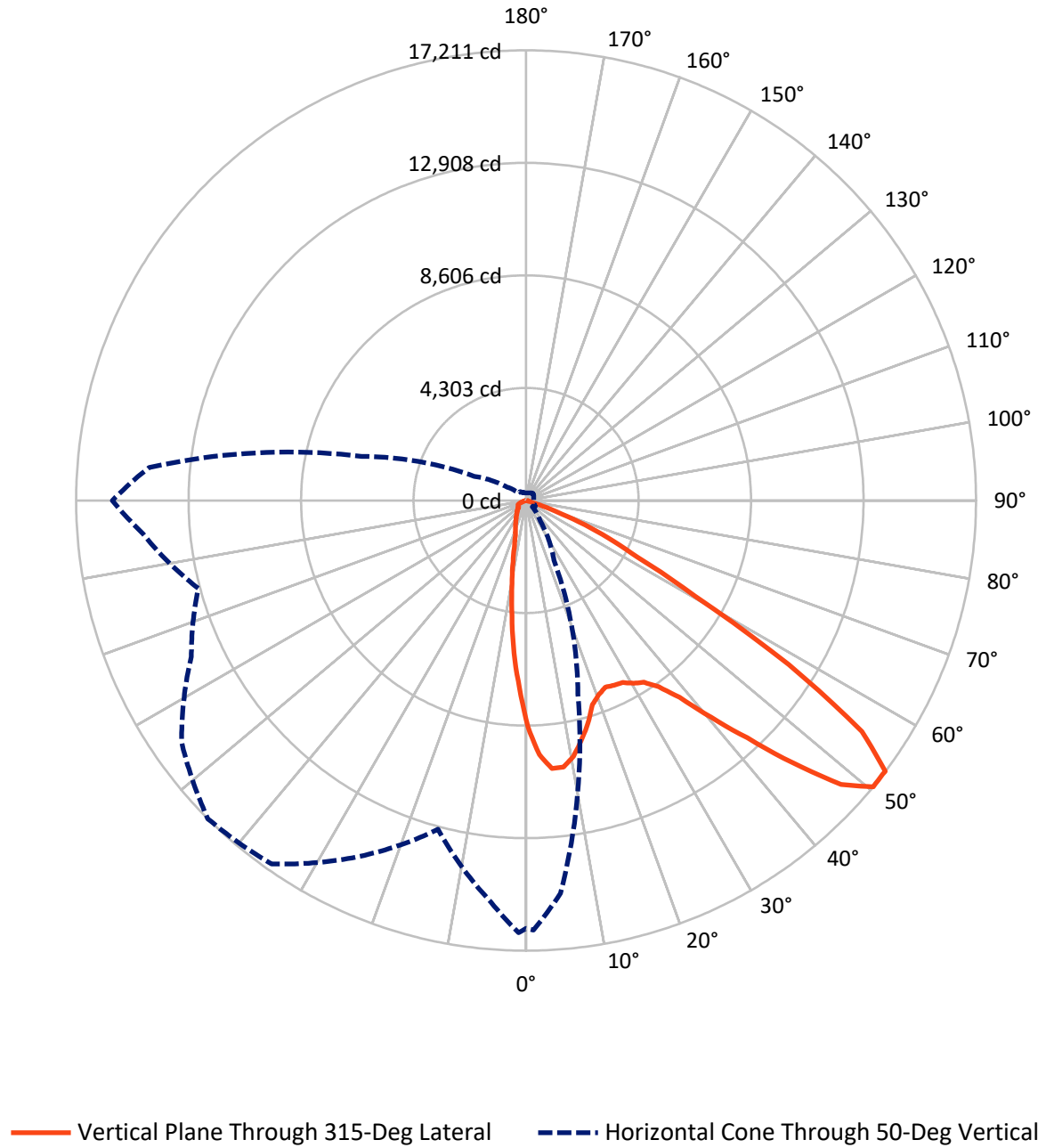
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P532605  
CATALOG NUMBER: GALN-SA8A-727-U-SLR-GRSBK

### Luminous Intensity Polar Plot



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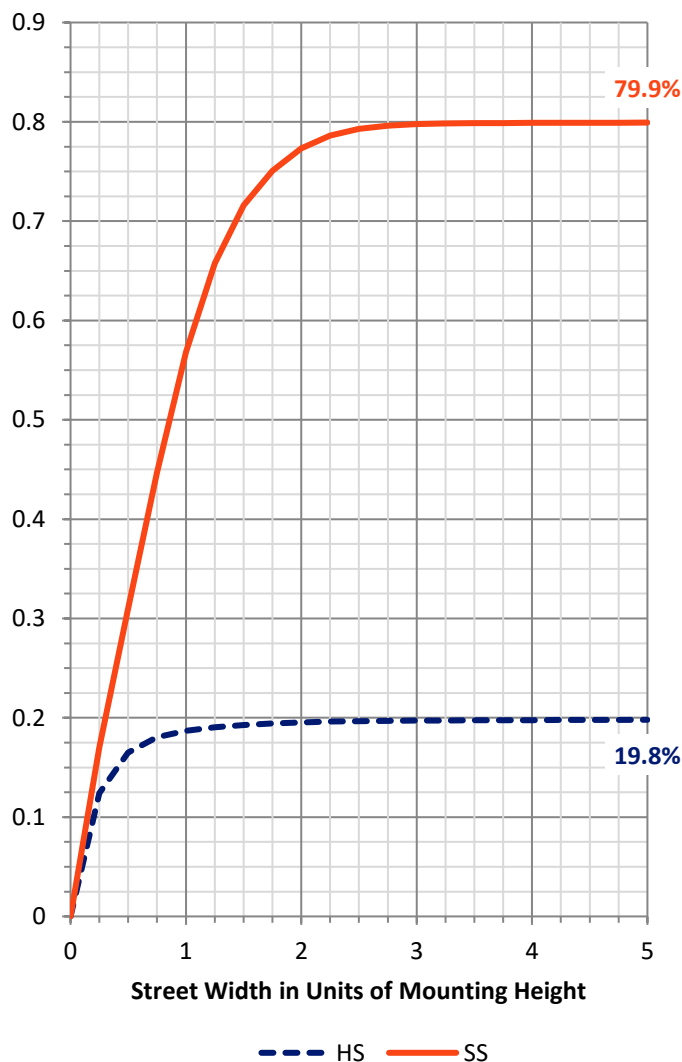
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3419.7	0.0	3419.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	13653.3	0.0	13653.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	17073.0	0.0	17073.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	631.1	3.7
10°-20°	1254.3	7.3
20°-30°	1884.3	11.0
30°-40°	2828.3	16.6
40°-50°	3974.9	23.3
50°-60°	4287.6	25.1
60°-70°	1990.7	11.7
70°-80°	187.3	1.1
80°-90°	34.5	0.2
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°	17073.0	100.0
0°-180°	17073.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P532605

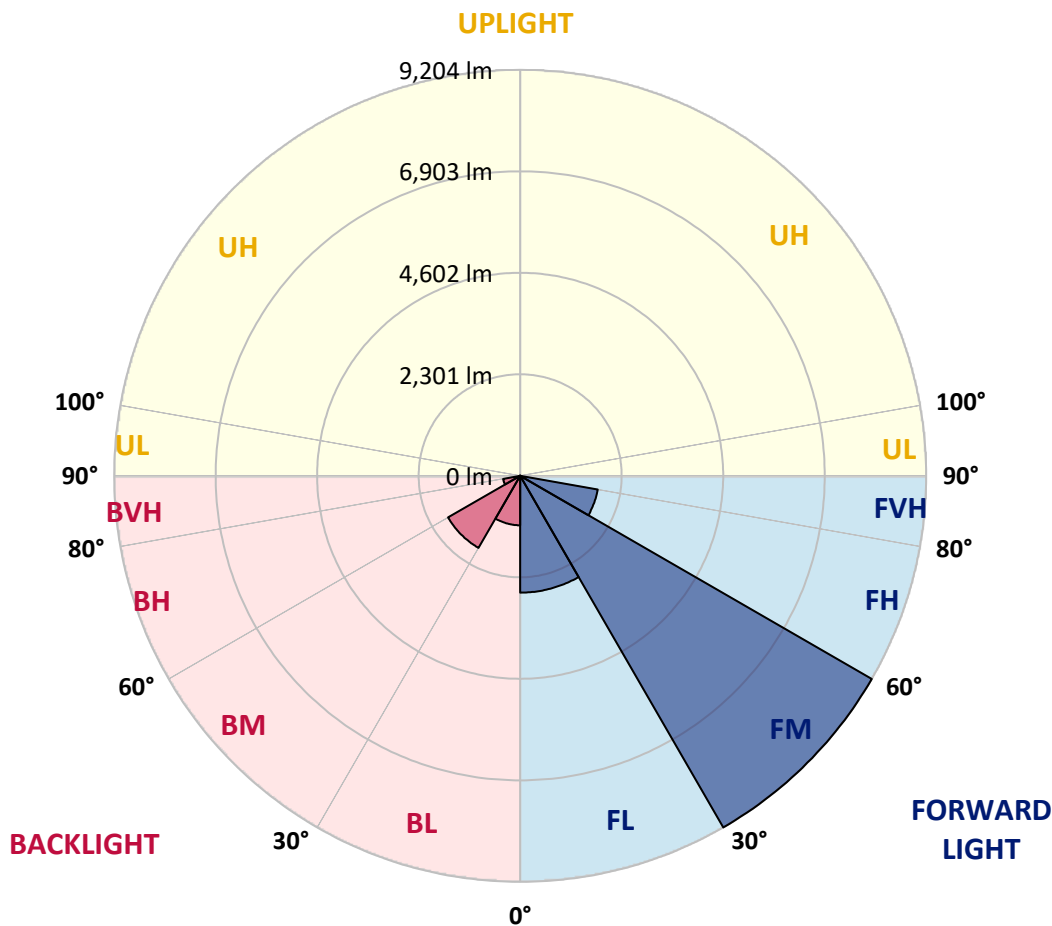
CATALOG NUMBER: GALN-SA8A-727-U-SLR-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2648.7	15.5			
FM (30°-60°)	9203.6	53.9			
FH (60°-80°)	1785.4	10.5			G1/1800
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1120.9	6.6	B3/2500		
BM (30°-60°)	1887.2	11.1	B2/2500		
BH (60°-80°)	392.7	2.3	B1/500		G1/500
BVH (80°-90°)	19.0	0.1			G1/100
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





REPORT NUMBER: P532605

CATALOG NUMBER: GALN-SA8A-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2
2.5°	9000.3	8861.4	8685.3	8539.6	8322.8	7885.8	7767.3	7625.0	7506.5	7347.2	7123.7
5°	8183.9	8139.9	8058.6	7509.8	7113.5	6585.1	6151.5	5968.6	5728.1	5531.6	5389.3
7.5°	7560.6	7384.5	7127.1	6574.9	5941.5	5375.8	4894.8	4613.6	4295.2	4186.8	3993.7
10°	6893.3	6934.0	6554.6	5778.9	5013.3	4556.0	4257.9	3987.0	3699.0	3509.3	3235.0
12.5°	6679.9	6547.8	6256.5	5297.9	4644.1	4217.3	3854.8	3519.5	3214.6	2909.8	2645.5
15°	6818.8	6615.6	6209.1	5196.3	4359.6	3827.7	3373.8	2919.9	2638.8	2249.2	1974.8
17.5°	7316.8	7154.2	6608.8	5304.6	4213.9	3455.1	2781.0	2313.6	1883.4	1531.1	1392.2
20°	8146.7	7916.3	7232.1	5443.5	3997.1	3004.6	2256.0	1680.1	1273.7	1124.6	1046.7
22.5°	8959.6	8834.3	7970.5	5711.1	3804.0	2604.9	1693.7	1131.4	951.9	924.8	873.9
25°	10507.7	10131.7	9098.5	6195.5	3655.0	2228.9	1277.0	911.2	806.2	785.9	792.6
27.5°	11429.0	11114.0	10141.8	6517.3	3489.0	1941.0	1080.6	836.7	765.5	721.5	704.6
30°	12313.2	11947.3	10660.1	6707.0	3133.3	1636.1	958.6	802.8	785.9	721.5	701.2
32.5°	12994.0	12635.0	11408.7	6991.6	2987.7	1439.6	789.3	626.7	582.6	575.9	636.8
35°	14037.3	13654.6	12048.9	7147.4	2875.9	1338.0	684.3	558.9	508.1	487.8	491.2
37.5°	15009.5	14748.7	12641.7	7208.4	2757.3	1307.5	613.1	501.3	457.3	443.7	440.4
40°	15822.5	15239.9	13204.0	7272.7	2706.5	1249.9	569.1	457.3	426.8	406.5	406.5
42.5°	16195.1	15602.3	13834.1	7235.5	2693.0	1158.5	569.1	420.0	396.3	376.0	372.6
45°	16113.8	15873.3	14115.2	7218.5	2693.0	1067.0	518.3	409.9	376.0	348.9	342.1
47.5°	16323.8	16008.8	14467.5	7289.7	2638.8	1002.7	437.0	430.2	355.7	321.8	315.0
50°	16361.1	16422.1	15080.7	7658.9	2520.2	921.4	342.1	423.4	342.1	291.3	284.5
52°	16605.0	16225.6	15267.0	7855.4	2394.9	860.4	287.9	362.5	328.6	271.0	264.2
52.5°	16269.6	16516.9	15311.0	7926.5	2408.4	819.7	277.8	355.7	321.8	271.0	254.1
55°	15893.6	16130.7	15131.5	8078.9	2208.6	643.6	216.8	257.4	291.3	237.1	227.0
57.5°	13813.8	14054.3	13149.8	7398.1	1798.7	453.9	179.5	193.1	257.4	220.2	210.0
60°	12279.3	12106.5	11036.1	6171.8	1277.0	254.1	142.3	149.0	281.2	203.2	199.9
62.5°	11222.4	10853.2	9223.9	4766.1	779.1	169.4	111.8	115.2	216.8	189.7	189.7
65°	8302.5	7889.2	6127.8	2882.7	382.8	118.6	84.7	91.5	135.5	162.6	162.6
67.5°	4739.0	4579.7	2960.6	1300.8	159.2	74.5	64.4	71.1	105.0	132.1	125.3
70°	2178.1	1954.5	1138.2	274.4	74.5	50.8	50.8	57.6	84.7	98.2	91.5
72.5°	636.8	603.0	277.8	44.0	30.5	30.5	33.9	44.0	64.4	74.5	67.7
75°	47.4	30.5	20.3	13.5	13.5	20.3	27.1	44.0	64.4	71.1	57.6
77.5°	3.4	6.8	3.4	3.4	10.2	20.3	30.5	54.2	84.7	88.1	64.4
80°	3.4	3.4	0.0	3.4	10.2	20.3	33.9	61.0	94.8	101.6	54.2
82.5°	0.0	0.0	0.0	3.4	13.5	27.1	40.6	64.4	88.1	108.4	57.6
85°	0.0	0.0	0.0	3.4	20.3	37.3	47.4	16.9	10.2	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: P532605

CATALOG NUMBER: GALN-SA8A-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2
2.5°	7282.9	7194.8	7160.9	7191.4	7181.3	7171.1	7357.4	7316.8	7310.0	7371.0	7357.4
5°	5467.2	5311.4	5738.2	5565.5	5745.0	5853.4	5873.7	5883.9	6009.2	5877.1	6049.9
7.5°	3895.5	3936.1	3932.8	4047.9	4254.6	4437.5	4545.9	4461.2	4454.4	4437.5	4363.0
10°	3113.0	3041.9	3028.3	3001.2	3065.6	3221.4	3353.5	3248.5	3174.0	3275.6	3245.1
12.5°	2543.9	2445.7	2391.5	2283.1	2286.5	2391.5	2391.5	2391.5	2466.0	2523.6	2567.6
15°	1951.1	1869.8	1869.8	1761.4	1737.7	1741.1	1795.3	1802.1	1920.6	1954.5	1971.5
17.5°	1365.1	1321.1	1371.9	1415.9	1388.8	1395.6	1415.9	1422.7	1439.6	1426.1	1460.0
20°	1050.1	1043.3	1056.9	1134.8	1192.4	1226.2	1202.5	1168.6	1148.3	1100.9	1100.9
22.5°	890.9	904.4	928.1	992.5	1067.0	1087.4	1060.3	982.3	921.4	914.6	918.0
25°	792.6	806.2	843.5	884.1	924.8	958.6	931.5	873.9	840.1	809.6	809.6
27.5°	731.7	738.5	758.8	789.3	823.1	850.2	840.1	809.6	772.3	758.8	728.3
30°	684.3	694.4	718.1	724.9	755.4	768.9	752.0	745.2	721.5	704.6	694.4
32.5°	660.5	657.2	674.1	680.9	684.3	694.4	674.1	684.3	680.9	653.8	643.6
35°	497.9	525.0	569.1	606.3	616.5	630.1	626.7	613.1	575.9	545.4	508.1
37.5°	447.1	464.1	487.8	518.3	558.9	575.9	569.1	535.2	491.2	470.8	464.1
40°	413.3	423.4	443.7	464.1	504.7	535.2	511.5	481.0	447.1	430.2	420.0
42.5°	382.8	386.2	396.3	416.6	447.1	494.6	453.9	413.3	399.7	389.5	382.8
45°	348.9	348.9	362.5	372.6	406.5	450.5	409.9	372.6	365.8	359.1	355.7
47.5°	321.8	325.2	332.0	345.5	372.6	403.1	376.0	345.5	328.6	325.2	318.4
50°	287.9	291.3	304.9	318.4	352.3	369.2	352.3	318.4	301.5	291.3	291.3
52°	260.8	271.0	284.5	311.6	335.4	362.5	342.1	304.9	284.5	274.4	267.6
52.5°	257.4	264.2	277.8	308.3	335.4	359.1	338.7	301.5	277.8	271.0	264.2
55°	230.3	240.5	264.2	301.5	332.0	359.1	332.0	298.1	264.2	247.3	240.5
57.5°	220.2	227.0	257.4	304.9	328.6	359.1	332.0	298.1	264.2	233.7	227.0
60°	210.0	223.6	257.4	294.7	325.2	362.5	335.4	294.7	257.4	220.2	220.2
62.5°	199.9	210.0	254.1	287.9	311.6	348.9	321.8	287.9	247.3	210.0	206.6
65°	172.8	189.7	223.6	240.5	267.6	301.5	274.4	250.7	216.8	186.3	182.9
67.5°	132.1	138.9	166.0	186.3	203.2	233.7	220.2	189.7	166.0	142.3	142.3
70°	91.5	98.2	118.6	128.7	145.7	162.6	152.4	128.7	111.8	98.2	94.8
72.5°	64.4	67.7	74.5	81.3	88.1	94.8	91.5	74.5	64.4	61.0	57.6
75°	50.8	57.6	61.0	57.6	54.2	50.8	50.8	44.0	37.3	33.9	33.9
77.5°	50.8	54.2	50.8	44.0	37.3	33.9	30.5	27.1	20.3	16.9	20.3
80°	44.0	44.0	44.0	37.3	33.9	30.5	27.1	23.7	20.3	16.9	16.9
82.5°	47.4	47.4	44.0	37.3	37.3	30.5	30.5	27.1	23.7	16.9	16.9
85°	0.0	0.0	0.0	6.8	16.9	30.5	30.5	27.1	23.7	20.3	20.3
87.5°	0.0	0.0	0.0	0.0	3.4	6.8	13.5	16.9	20.3	20.3	20.3
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°	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2
2.5°	7479.4	7608.1	7852.0	8095.9	8244.9	8421.0	8739.5	8908.8	9129.0	9237.4	9450.8
5°	6026.2	6331.0	6439.4	6717.2	7015.3	7313.4	7787.6	8309.3	8742.8	9040.9	9427.1
7.5°	4396.8	4468.0	4888.0	5074.3	5562.1	6104.1	6751.1	7408.2	7957.0	8444.8	8739.5
10°	3295.9	3556.8	3821.0	4176.6	4569.6	5128.5	5748.4	6473.3	7184.6	7672.4	8045.0
12.5°	2648.9	2855.6	3207.9	3590.6	4075.0	4444.3	5067.5	5785.7	6707.0	7184.6	7675.8
15°	2005.3	2269.5	2669.3	3065.6	3577.1	3966.6	4596.7	5501.1	6686.7	7343.9	7767.3
17.5°	1487.1	1666.6	2025.7	2469.4	2991.1	3539.8	4390.1	5470.6	6913.7	7696.1	8133.1
20°	1138.2	1199.1	1426.1	1822.4	2388.1	3106.2	4054.7	5602.7	7584.4	8553.2	8996.9
22.5°	921.4	948.5	1036.5	1310.9	1859.7	2726.8	3895.5	5694.2	8339.7	9579.5	10172.3
25°	802.8	796.0	853.6	972.2	1453.2	2371.2	3692.3	6039.7	9264.5	10785.4	11317.3
27.5°	731.7	731.7	758.8	843.5	1205.9	2140.8	3563.5	6287.0	10196.0	11845.7	12133.6
30°	694.4	701.2	779.1	806.2	1002.7	1866.5	3350.1	6537.7	11086.9	12523.2	12919.5
32.5°	643.6	616.5	599.6	667.3	843.5	1619.2	3136.7	6642.7	11808.4	13353.1	13691.8
35°	494.6	481.0	501.3	552.1	724.9	1409.2	2899.6	6761.2	12638.3	14315.1	14382.8
37.5°	447.1	443.7	457.3	501.3	609.7	1226.2	2730.2	6730.7	13271.8	15111.1	14928.2
40°	413.3	413.3	423.4	460.7	545.4	1097.5	2554.1	6703.6	13884.9	16005.4	15470.2
42.5°	386.2	386.2	403.1	426.8	518.3	1012.8	2422.0	6666.4	14399.8	16554.2	15788.6
45°	348.9	359.1	386.2	409.9	525.0	955.2	2323.7	6524.1	14575.9	16547.4	15636.2
47.5°	321.8	335.4	362.5	396.3	474.2	938.3	2256.0	6398.8	14515.0	16140.9	15158.6
50°	291.3	308.3	345.5	403.1	403.1	904.4	2184.9	6510.6	14470.9	15825.9	14701.3
52°	271.0	284.5	332.0	392.9	352.3	833.3	2140.8	6727.4	14650.5	15785.2	14498.0
52.5°	267.6	277.8	321.8	386.2	335.4	819.7	2110.3	6778.2	14708.0	15683.6	14636.9
55°	237.1	250.7	294.7	301.5	274.4	674.1	2012.1	6893.3	14423.5	15483.7	14504.8
57.5°	223.6	230.3	260.8	247.3	237.1	508.1	1731.0	6713.8	12811.1	13752.8	13495.4
60°	206.6	213.4	243.9	193.1	199.9	355.7	1300.8	5829.7	10287.5	11459.5	11923.6
62.5°	199.9	196.5	230.3	155.8	169.4	257.4	918.0	4739.0	7926.5	9433.9	10236.7
65°	176.1	172.8	166.0	132.1	145.7	199.9	548.8	3092.7	5585.8	7137.2	7577.6
67.5°	135.5	142.3	121.9	105.0	121.9	155.8	304.9	1385.4	2930.1	4281.7	4637.3
70°	94.8	101.6	98.2	91.5	108.4	128.7	176.1	474.2	1212.7	2249.2	2479.6
72.5°	57.6	71.1	74.5	77.9	94.8	111.8	125.3	152.4	321.8	796.0	989.1
75°	33.9	47.4	57.6	67.7	77.9	94.8	105.0	108.4	111.8	149.0	240.5
77.5°	23.7	33.9	50.8	64.4	77.9	94.8	111.8	118.6	111.8	105.0	111.8
80°	20.3	33.9	47.4	61.0	81.3	98.2	111.8	111.8	108.4	94.8	101.6
82.5°	20.3	33.9	50.8	64.4	77.9	94.8	108.4	111.8	101.6	94.8	98.2
85°	23.7	37.3	54.2	67.7	84.7	77.9	71.1	57.6	54.2	44.0	47.4
87.5°	23.7	33.9	33.9	37.3	40.6	40.6	40.6	37.3	30.5	27.1	27.1
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: P532605

CATALOG NUMBER: GALN-SA8A-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2	8658.2
2.5°	9461.0	9732.0	9721.8	9728.6	9687.9	9413.6	9281.4	8946.1	9040.9	9000.3
5°	9823.4	10091.0	10321.4	10294.3	9982.6	9610.0	9057.9	8536.2	8393.9	8183.9
7.5°	9461.0	10104.6	10318.0	10287.5	9826.8	9349.2	8468.5	7946.8	7699.5	7560.6
10°	8885.1	9630.3	9894.6	9948.8	9637.1	8912.2	8102.6	7265.9	7133.8	6893.3
12.5°	8556.5	9098.5	9261.1	9406.8	9298.4	8756.4	7824.9	7022.1	6839.1	6679.9
15°	8288.9	8610.7	8678.5	8844.5	8908.8	8617.5	7970.5	7286.3	6835.7	6818.8
17.5°	8536.2	8404.1	8156.8	8207.6	8410.9	8620.9	8346.5	7807.9	7371.0	7316.8
20°	8946.1	8363.5	7804.5	7929.9	8099.2	8742.8	8915.6	8536.2	8285.6	8146.7
22.5°	9416.9	8434.6	7692.8	7753.7	8075.5	9017.2	9837.0	9627.0	9159.5	8959.6
25°	10287.5	8631.1	7780.8	7821.5	8261.8	9400.0	10670.3	10826.1	10548.3	10507.7
27.5°	11137.7	9139.2	7973.9	7882.5	8356.7	9772.6	11175.0	12011.7	11523.9	11429.0
30°	11571.3	9552.4	8261.8	8106.0	8749.6	9999.6	11479.9	12784.0	12357.2	12313.2
32.5°	12235.2	9928.4	8485.4	8285.6	8969.8	10280.7	12048.9	13627.5	13214.2	12994.0
35°	12513.0	10338.3	8976.6	8742.8	9599.9	10673.7	12340.3	14379.5	14250.7	14037.3
37.5°	13048.2	10778.7	9555.8	9542.3	10362.0	11185.2	12865.3	15402.5	15378.7	15009.5
40°	13092.3	11259.7	10470.4	10897.2	11540.8	12076.0	13326.0	15687.0	16073.2	15822.5
42.5°	13160.0	12103.1	12052.3	12404.6	12956.8	12841.6	13342.9	15754.7	16344.1	16195.1
45°	13190.5	12946.6	13661.3	14311.7	14542.1	13844.3	13183.7	15626.0	16486.4	16113.8
47.5°	12946.6	13671.5	14962.1	16218.8	16286.6	14460.8	13116.0	15493.9	16571.1	16323.8
50°	12980.5	14125.4	16086.7	17211.3	16964.0	15006.1	13011.0	15412.6	16527.1	16361.1
52°	12899.2	14135.6	16245.9	17191.0	17018.2	14704.7	12831.4	15101.0	16486.4	16605.0
52.5°	12990.6	14074.6	16079.9	17204.5	16981.0	14853.7	12807.7	15273.7	16510.1	16269.6
55°	12675.6	13349.7	15107.7	15585.4	15551.5	13481.8	12079.4	14701.3	15890.2	15893.6
57.5°	11456.1	11571.3	11849.1	11838.9	11683.1	10599.1	10331.5	13519.1	14166.1	13813.8
60°	10094.4	8471.9	7723.2	7418.4	7245.6	7069.5	9139.2	12367.4	12428.3	12279.3
62.5°	8722.5	5873.7	4877.8	4793.2	4833.8	5477.4	8834.3	11910.1	11544.2	11222.4
65°	7039.0	4281.7	3543.2	3431.4	3827.7	4522.2	7150.8	9132.4	8570.1	8302.5
67.5°	4420.5	3123.2	2394.9	2184.9	2662.5	3113.0	4698.3	5738.2	5108.2	4739.0
70°	2621.8	1744.5	1084.0	972.2	1094.1	1659.8	2632.0	2862.3	2367.8	2178.1
72.5°	1033.2	640.2	301.5	257.4	267.6	582.6	968.8	945.1	714.7	636.8
75°	277.8	193.1	105.0	84.7	71.1	108.4	155.8	101.6	37.3	47.4
77.5°	128.7	115.2	91.5	71.1	54.2	40.6	20.3	6.8	6.8	3.4
80°	111.8	98.2	84.7	71.1	54.2	33.9	16.9	3.4	3.4	3.4
82.5°	105.0	91.5	77.9	64.4	50.8	33.9	16.9	3.4	0.0	0.0
85°	44.0	57.6	64.4	61.0	54.2	33.9	16.9	3.4	0.0	0.0
87.5°	23.7	20.3	16.9	13.5	10.2	6.8	6.8	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

(END OF REPORT)