

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: P652559

Luminaire Tested: **GALN-SA8B-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652559  
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-SA8B-840-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 21363.1 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

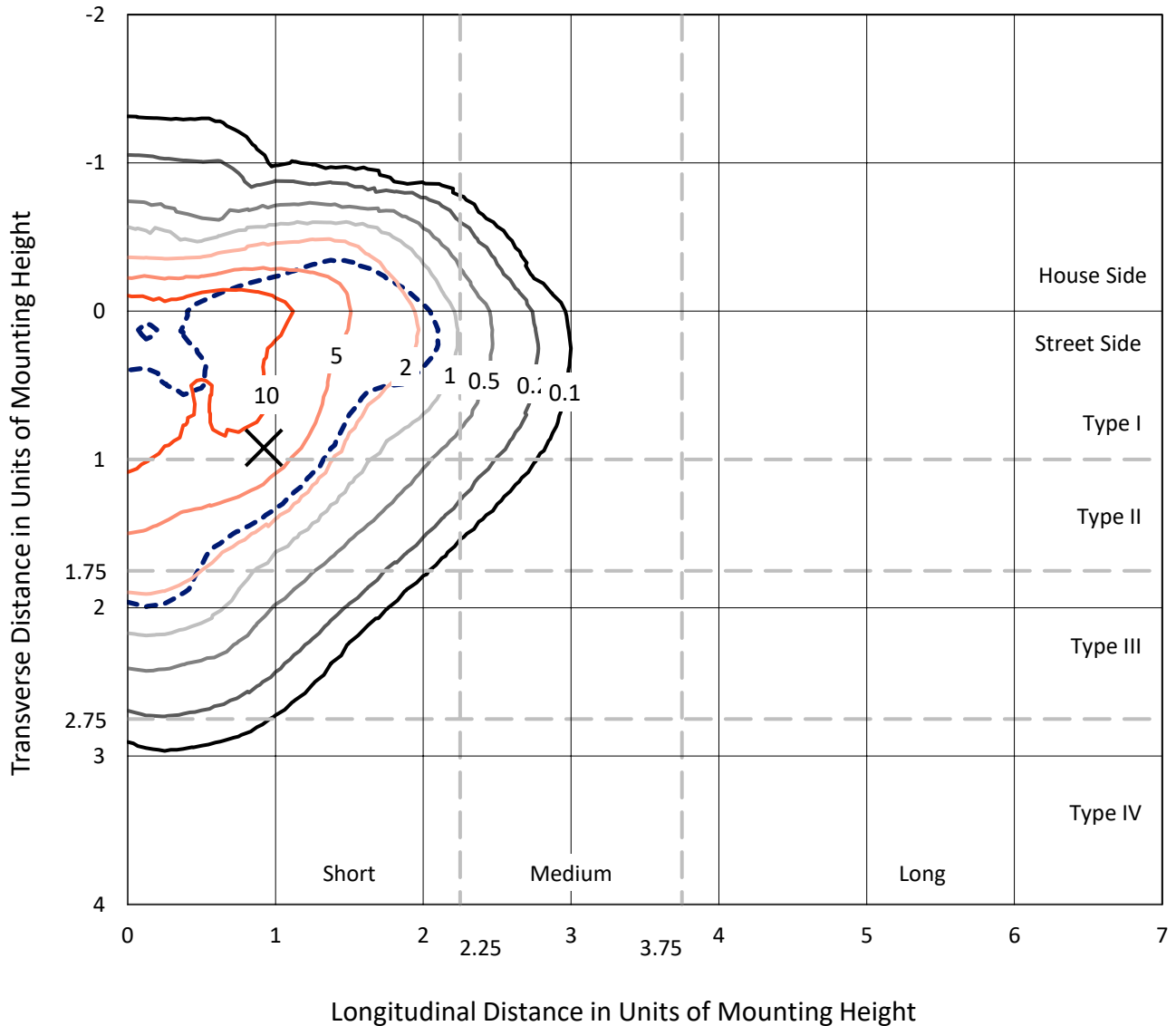
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

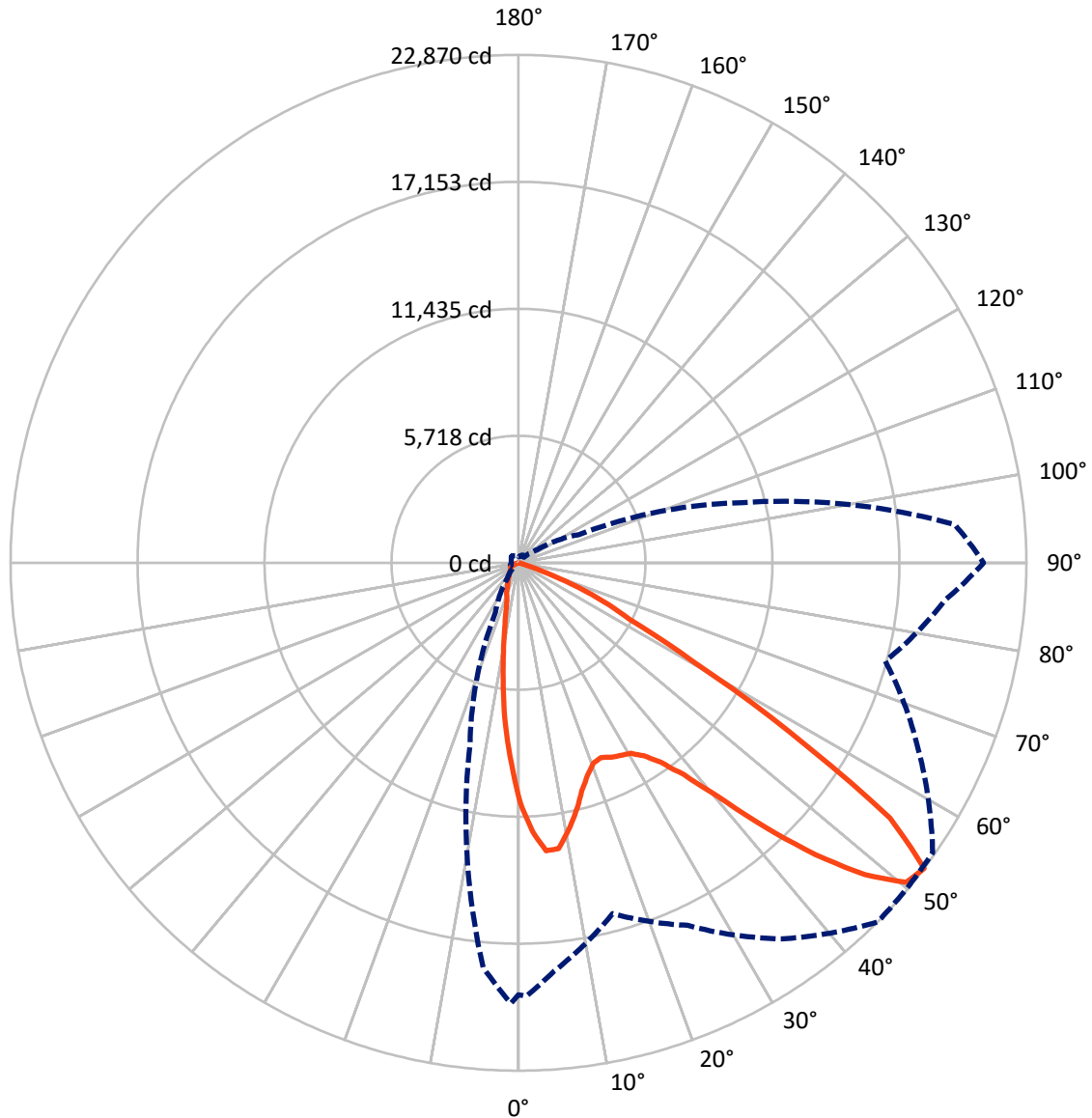
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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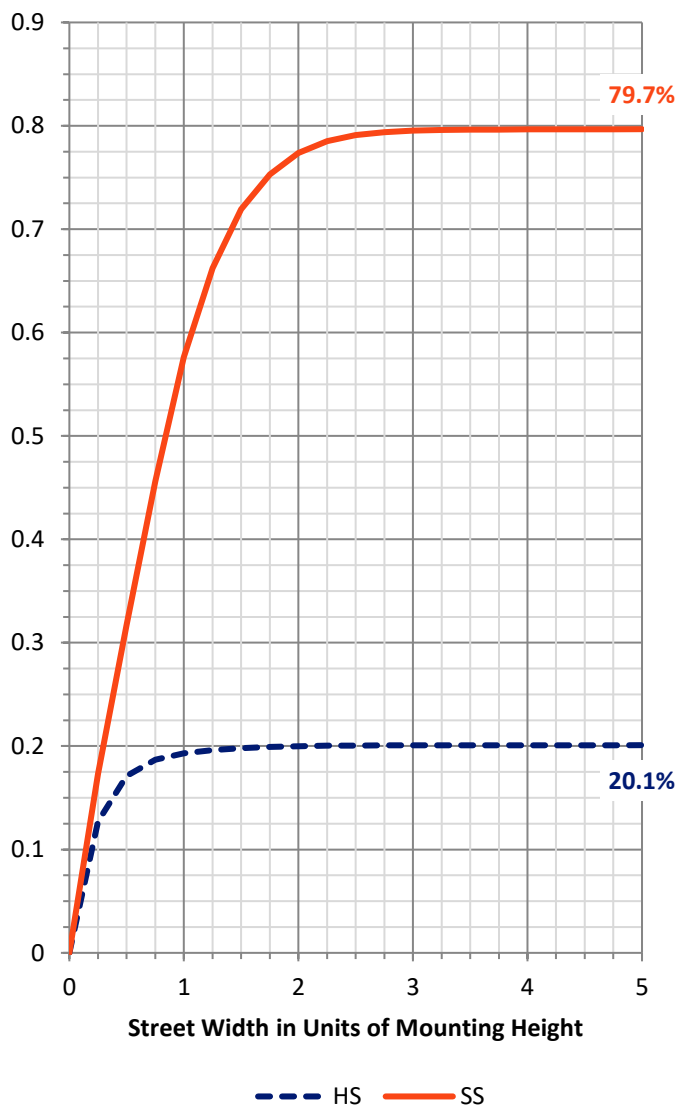
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4335.6	0.0	4335.6
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	17027.4	0.0	17027.4
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	21363.1	0.0	21363.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	790.0	3.7
10°-20°	1558.6	7.3
20°-30°	2371.9	11.1
30°-40°	3545.1	16.6
40°-50°	5048.5	23.6
50°-60°	5427.0	25.4
60°-70°	2404.8	11.3
70°-80°	194.6	0.9
80°-90°	22.7	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°	21363.1	100.0
0°-180°	21363.1	100.0

**Coefficient of Utilization**



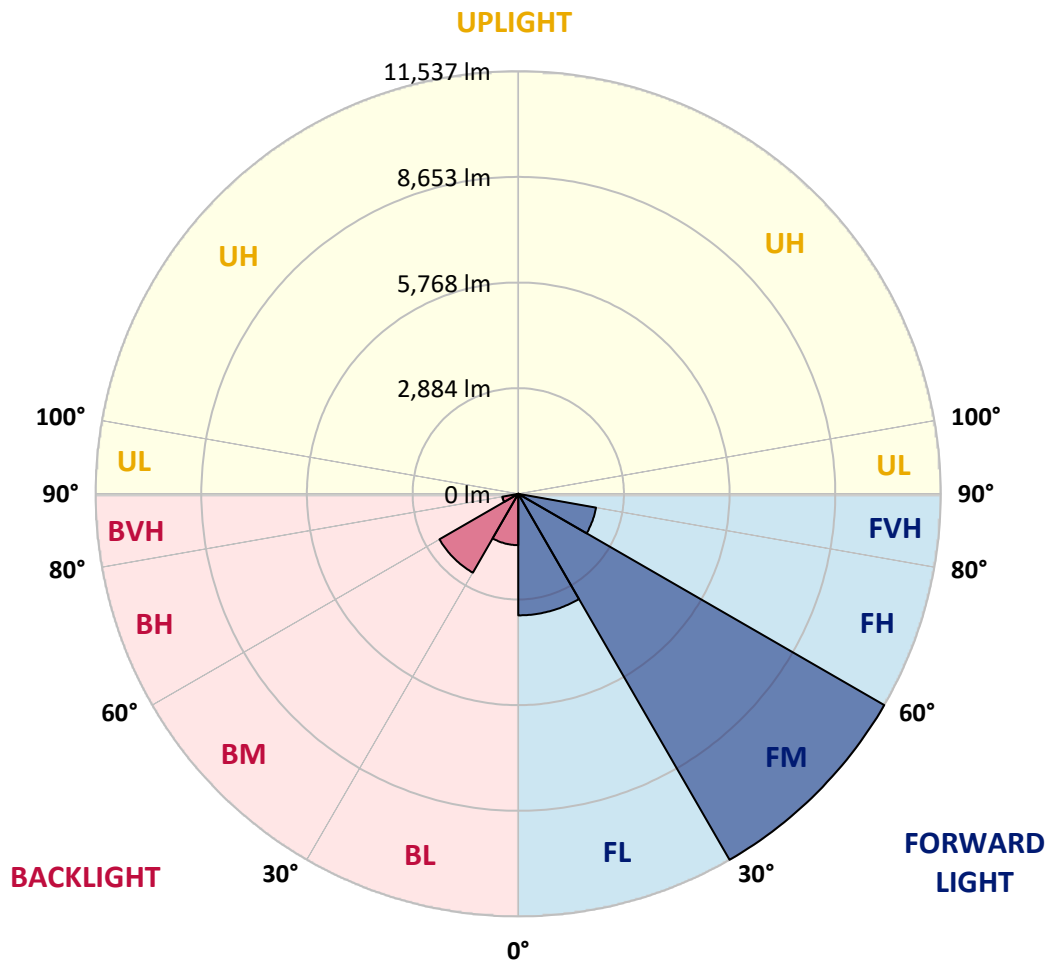
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3318.1	15.5			
FM (30°-60°)	11536.7	54.0			
FH (60°-80°)	2155.8	10.1			G2/5000
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	1402.3	6.6	B3/2500		
BM (30°-60°)	2483.8	11.6	B2/2500		
BH (60°-80°)	443.6	2.1	B1/500		G1/500
BVH (80°-90°)	5.9	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1
2.5°	11462.3	11496.0	11680.8	11911.9	12033.8	12311.1	12117.8	12168.3	12063.2	11693.4	11403.5
5°	11113.6	11109.4	11344.7	11916.1	12458.2	13008.6	13025.4	12731.2	12214.4	11647.2	10836.3
7.5°	10063.2	10227.1	10470.7	11382.5	12386.8	12798.5	12996.0	12651.4	11857.3	11046.4	10168.2
10°	9269.0	9353.1	9764.9	10865.7	11601.0	12151.4	12273.3	12075.8	11466.5	10453.9	9470.8
12.5°	8811.1	8853.0	9336.3	10260.6	11038.0	11445.5	11504.4	11596.8	11159.8	10210.2	9029.6
15°	8815.3	8848.8	9500.1	10273.2	10579.9	10470.7	10664.0	10659.8	10848.9	10164.0	9399.3
17.5°	9449.7	9487.5	10075.8	10458.1	10323.7	10067.4	10054.7	10248.0	10647.2	10739.7	9958.1
20°	10542.2	10630.4	11063.2	11042.2	10285.9	9769.1	9626.2	9773.3	10701.8	11227.0	11084.2
22.5°	12012.8	12134.6	12437.1	11857.3	10458.1	9567.4	9521.1	9806.8	11063.2	12315.3	12361.5
25°	13718.6	13924.5	14071.6	13327.9	11071.6	9916.1	9697.6	10189.2	11550.5	13495.9	13987.6
27.5°	14848.9	15063.2	15029.6	13966.6	11483.4	10008.6	9823.6	10281.6	11974.9	13777.5	14836.3
30°	15731.3	15861.5	16096.8	14311.1	11895.1	10269.0	9953.9	10672.4	12113.6	14264.9	15861.5
32.5°	16760.7	16848.9	16865.8	14920.3	12529.6	10596.8	10357.3	11159.8	12727.0	14731.3	16769.1
35°	17798.6	17928.8	17655.7	15672.5	12920.4	11206.0	11029.5	12004.3	13218.7	15214.4	17769.2
37.5°	18924.6	18991.9	18361.6	15983.4	13479.1	12197.6	12101.0	12916.2	14071.6	16088.4	18878.4
40°	19870.0	19933.0	19113.7	16365.8	14067.4	13584.3	13832.1	14655.7	15231.3	16655.7	19433.1
42.5°	20395.3	20542.3	19365.8	16155.7	15248.1	15155.7	16256.5	16546.4	16575.9	16815.4	19928.8
45°	20538.1	20470.9	18949.8	16327.9	16281.8	17739.7	18739.8	19122.1	17912.0	17109.5	20054.9
47.5°	19878.4	19966.7	18336.4	16176.7	17638.9	19697.7	20991.9	21702.0	18907.8	16853.1	19744.0
50°	19344.8	19231.3	18138.9	16067.5	18004.5	20622.2	22617.9	22777.6	19823.8	17168.3	19403.6
52.5°	19449.8	19521.3	18454.1	16357.4	18012.9	20676.7	22870.1	22760.8	19853.2	17096.9	19281.8
55°	19672.5	19357.4	18319.6	15718.7	16807.0	19151.5	20298.6	20130.5	18323.8	16336.3	18983.5
57.5°	16975.0	17462.4	16844.7	14033.8	13794.3	14428.8	14407.8	14924.6	13668.3	14059.0	17281.7
60°	13777.5	13861.5	14092.6	12004.3	9546.4	9327.9	9025.4	8697.6	9197.6	12021.2	15718.7
62.5°	12117.8	12017.0	12840.5	10920.3	6739.6	5642.9	5592.5	5794.2	7096.7	11466.5	14743.9
65°	8806.9	8932.8	9529.5	8474.9	5058.9	4306.8	4231.2	4827.8	5743.8	9189.2	11252.2
67.5°	5378.2	5621.9	5676.6	5227.0	3432.8	2726.9	2617.7	3159.7	4147.1	5945.4	6596.7
70°	2483.2	2777.3	3054.7	2853.0	1987.5	1121.9	1058.8	1327.8	2092.5	3420.2	3500.1
72.5°	752.1	756.3	1058.8	1105.1	642.9	252.1	222.7	294.1	710.1	1130.3	1189.1
75°	54.6	58.8	142.9	163.8	121.9	63.0	67.2	79.8	151.3	252.1	189.1
77.5°	4.2	4.2	4.2	21.0	37.8	42.0	54.6	63.0	79.8	92.4	84.0
80°	4.2	0.0	4.2	16.8	29.4	42.0	50.5	58.8	63.0	71.4	63.0
82.5°	0.0	0.0	0.0	12.6	29.4	42.0	46.3	63.0	71.4	84.0	71.4
85°	0.0	0.0	0.0	12.6	29.4	46.3	42.0	21.0	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°	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1
2.5°	11453.9	11290.1	10916.1	10727.0	10281.6	10218.7	9781.7	9710.2	9563.2	9483.3	9290.0
5°	10479.1	10281.6	9672.4	9159.8	8563.1	8147.2	7827.9	7537.9	7369.9	7214.4	7285.8
7.5°	9685.0	9109.4	8432.9	7575.7	6886.6	6441.3	5953.9	5554.7	5319.4	5159.7	5197.5
10°	8853.0	8479.1	7537.9	6575.7	5743.8	5428.7	5046.3	4739.5	4407.6	4121.9	3987.4
12.5°	8592.6	8037.9	6857.3	5878.3	5248.0	4941.2	4504.2	4151.3	3727.0	3378.2	3256.4
15°	8638.8	8105.1	6672.3	5626.1	4882.4	4353.0	3832.0	3395.0	2928.6	2684.9	2558.8
17.5°	9390.9	8466.5	6794.2	5361.4	4374.0	3638.7	2995.8	2441.2	2092.5	1840.4	1785.8
20°	10315.3	9248.1	7054.7	5168.1	3958.0	2895.0	2189.1	1710.1	1420.2	1378.1	1365.5
22.5°	11668.2	10525.4	7613.6	5037.8	3449.6	2256.3	1500.0	1243.8	1163.9	1155.4	1159.7
25°	13559.0	12126.2	8222.8	4928.6	3067.3	1739.5	1226.9	1054.6	1029.4	1016.9	1037.8
27.5°	14378.3	13092.6	8546.3	4693.4	2718.5	1567.3	1210.1	1046.2	974.8	953.8	966.4
30°	15391.0	13735.5	9054.7	4289.9	2205.9	1289.9	1130.3	1138.6	1105.1	1000.0	966.4
32.5°	16735.5	14538.0	9311.0	4004.3	1970.6	1067.2	827.7	760.5	848.7	865.6	895.0
35°	17596.8	15353.1	9441.3	3836.2	1848.8	911.8	701.7	638.7	617.6	621.8	638.7
37.5°	19197.8	16454.0	9605.1	3659.7	1756.3	794.2	634.5	575.7	546.2	546.2	563.0
40°	20155.7	17328.0	9827.8	3563.1	1663.9	722.7	575.7	525.2	500.0	500.0	508.4
42.5°	20395.3	17760.7	9752.2	3529.4	1558.9	705.9	525.2	487.4	458.0	453.8	449.6
45°	20823.8	18420.4	9764.9	3491.7	1449.6	642.9	495.8	453.8	411.8	407.5	403.3
47.5°	21294.4	18895.2	9790.1	3344.6	1344.6	537.8	516.8	420.2	369.8	361.4	361.4
50°	20891.0	19273.4	10008.6	3197.5	1210.1	437.0	508.4	394.9	327.7	315.1	319.3
52.5°	20941.5	19718.8	10470.7	2991.6	1042.0	348.8	411.8	374.0	298.3	277.3	281.5
55°	20134.7	19248.1	10533.8	2773.1	815.1	269.0	315.1	327.7	252.1	243.7	243.7
57.5°	17332.2	16298.5	9294.2	2247.9	537.8	222.7	226.9	285.7	218.5	210.1	214.3
60°	14832.1	13084.2	7479.1	1483.2	336.1	176.4	163.8	289.9	193.3	189.1	201.7
62.5°	13521.2	10752.3	5672.4	920.2	231.1	134.5	113.5	235.3	168.0	168.0	184.9
65°	9769.1	7222.8	3298.4	483.2	163.8	105.0	84.0	134.5	138.7	142.9	151.3
67.5°	6050.5	3647.1	1390.8	235.3	109.2	71.4	54.6	84.0	92.4	92.4	100.8
70°	2987.4	1453.8	462.2	134.5	84.0	58.8	37.8	46.3	46.3	42.0	46.3
72.5°	924.3	437.0	117.7	84.0	58.8	37.8	21.0	16.8	8.4	0.0	4.2
75°	105.0	84.0	75.6	58.8	37.8	16.8	4.2	0.0	0.0	0.0	0.0
77.5°	63.0	71.4	71.4	58.8	37.8	12.6	0.0	0.0	0.0	0.0	0.0
80°	50.5	54.6	58.8	54.6	33.6	16.8	0.0	0.0	0.0	0.0	0.0
82.5°	63.0	71.4	79.8	71.4	46.3	21.0	8.4	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.6	4.2	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°	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1
2.5°	9210.2	9117.8	9248.1	9054.7	9050.5	9054.7	9000.1	8949.7	9029.6	9243.9	9264.8
5°	7029.5	7227.0	7290.0	7495.9	7382.5	7214.4	7248.0	7134.5	7411.9	7533.7	7437.0
7.5°	5117.7	5105.1	5529.5	5554.7	5609.3	5613.5	5605.1	5382.4	5155.5	5206.0	5357.3
10°	3970.6	3756.3	3962.2	3941.3	4075.7	4037.9	4092.5	3853.0	3932.9	3932.9	4029.5
12.5°	3235.3	3008.4	2970.7	2916.0	2970.7	2991.6	3012.6	2966.5	3100.9	3163.9	3231.1
15°	2470.6	2344.5	2311.0	2205.9	2222.7	2281.5	2331.9	2352.9	2311.0	2407.6	2416.0
17.5°	1794.1	1789.9	1810.9	1806.7	1789.9	1777.4	1773.2	1718.5	1701.7	1710.1	1743.7
20°	1361.3	1395.0	1466.4	1537.9	1575.6	1529.4	1466.4	1373.9	1336.2	1344.6	1348.8
22.5°	1163.9	1214.3	1311.0	1390.8	1428.6	1344.6	1231.1	1151.2	1134.5	1130.3	1126.1
25°	1054.6	1113.5	1184.9	1210.1	1205.9	1155.4	1071.4	1037.8	1029.4	1021.1	983.2
27.5°	995.8	1016.9	1029.4	1058.8	1071.4	1037.8	1016.9	966.4	958.0	958.0	932.8
30°	962.2	949.6	966.4	945.4	962.2	937.0	941.2	941.2	920.2	928.5	928.5
32.5°	895.0	899.2	899.2	857.1	869.8	840.3	869.8	895.0	899.2	903.4	937.0
35°	655.5	731.1	768.9	768.9	781.5	760.5	756.3	726.9	689.1	651.3	634.5
37.5°	575.7	605.0	655.5	684.9	705.9	689.1	651.3	605.0	584.1	567.3	550.4
40°	512.6	537.8	571.5	605.0	647.1	626.0	567.3	546.2	521.0	521.0	504.2
42.5°	462.2	474.8	495.8	546.2	592.5	550.4	508.4	491.6	479.0	474.8	470.6
45°	416.0	420.2	441.2	483.2	537.8	495.8	453.8	432.8	437.0	441.2	437.0
47.5°	374.0	382.3	394.9	445.4	479.0	458.0	411.8	399.1	399.1	399.1	403.3
50°	323.5	344.6	369.8	411.8	437.0	424.4	386.5	369.8	361.4	361.4	365.6
52.5°	289.9	306.7	340.4	390.7	424.4	403.3	365.6	340.4	323.5	319.3	327.7
55°	252.1	281.5	336.1	374.0	420.2	399.1	357.2	327.7	298.3	294.1	294.1
57.5°	226.9	273.1	323.5	369.8	407.5	390.7	357.2	319.3	281.5	277.3	277.3
60°	214.3	264.7	315.1	357.2	407.5	382.3	353.0	310.9	269.0	269.0	264.7
62.5°	201.7	247.9	298.3	340.4	390.7	369.8	340.4	298.3	256.3	256.3	247.9
65°	168.0	214.3	247.9	285.7	340.4	319.3	289.9	260.5	226.9	218.5	222.7
67.5°	117.7	147.1	180.6	218.5	252.1	243.7	231.1	210.1	180.6	176.4	172.2
70°	58.8	79.8	109.2	147.1	176.4	168.0	159.7	142.9	126.1	121.9	121.9
72.5°	8.4	25.2	46.3	67.2	92.4	96.6	92.4	88.2	84.0	79.8	84.0
75°	0.0	0.0	0.0	16.8	37.8	46.3	54.6	63.0	63.0	54.6	67.2
77.5°	0.0	0.0	0.0	0.0	4.2	21.0	42.0	54.6	67.2	58.8	79.8
80°	0.0	0.0	0.0	0.0	4.2	25.2	42.0	58.8	67.2	58.8	84.0
82.5°	0.0	0.0	0.0	0.0	4.2	29.4	42.0	54.6	63.0	58.8	75.6
85°	0.0	0.0	0.0	0.0	12.6	25.2	16.8	8.4	4.2	4.2	12.6
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: P652559

CATALOG NUMBER: GALN-SA8B-840-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1	10832.1
2.5°	9382.4	9680.8	10000.2	10122.0	10500.1	10785.8	10979.2	11395.1	11458.1	11462.3
5°	7537.9	7689.2	8235.4	8491.7	9054.7	9491.7	9958.1	10630.4	11080.0	11113.6
7.5°	5357.3	5777.4	6008.5	6676.5	7369.9	8054.8	8748.0	9529.5	10050.5	10063.2
10°	4311.0	4584.1	4995.9	5495.9	6079.9	6777.4	7701.8	8609.3	9138.8	9269.0
12.5°	3470.6	3949.7	4420.2	4937.0	5382.4	5907.6	6903.4	8113.5	8550.5	8811.1
15°	2672.3	3109.3	3663.9	4269.0	4773.2	5474.8	6609.3	7991.7	8727.0	8815.3
17.5°	1970.6	2361.4	2873.9	3445.4	4201.7	5197.5	6659.7	8609.3	9302.6	9449.7
20°	1416.0	1642.9	2046.2	2710.1	3672.3	4874.0	6710.2	9235.4	10290.1	10542.2
22.5°	1121.9	1214.3	1479.0	2067.3	3079.9	4533.7	7067.3	10432.9	11647.2	12012.8
25°	974.8	1025.3	1151.2	1630.3	2705.9	4500.0	7638.7	11869.9	13454.0	13718.6
27.5°	941.2	949.6	1058.8	1495.8	2504.2	4277.3	7857.2	12890.9	14580.0	14848.9
30°	991.6	1126.1	1134.5	1264.7	2130.3	3836.2	7970.7	13878.4	15533.9	15731.3
32.5°	857.1	815.1	844.5	979.0	1874.0	3579.9	8184.9	14739.7	16622.0	16760.7
35°	596.6	626.0	693.3	848.7	1638.7	3310.9	8239.6	15689.3	17655.7	17798.6
37.5°	550.4	567.3	621.8	722.7	1441.2	3159.7	8164.0	16382.6	18727.1	18924.6
40°	512.6	533.6	563.0	655.5	1294.1	2991.6	8059.0	17008.6	19382.6	19870.0
42.5°	483.2	500.0	525.2	626.0	1168.1	2823.6	7911.9	17891.0	19970.9	20395.3
45°	449.6	474.8	504.2	609.2	1096.7	2710.1	7802.6	17836.3	20311.2	20538.1
47.5°	416.0	458.0	491.6	567.3	1075.6	2655.5	7848.9	17630.5	20033.9	19878.4
50°	382.3	437.0	495.8	470.6	1025.3	2546.2	7903.5	17912.0	19374.2	19344.8
52.5°	353.0	416.0	462.2	386.5	911.8	2441.2	8432.9	18281.7	19840.6	19449.8
55°	310.9	374.0	369.8	310.9	739.5	2361.4	8848.8	18290.2	19525.5	19672.5
57.5°	281.5	331.9	289.9	260.5	546.2	1974.8	8172.4	15336.3	16714.5	16975.0
60°	260.5	323.5	218.5	205.9	357.2	1424.4	7134.5	11878.3	13285.9	13777.5
62.5°	239.5	306.7	172.2	168.0	247.9	1012.6	5865.6	9941.3	11449.7	12117.8
65°	210.1	218.5	138.7	130.3	176.4	546.2	3571.5	6844.6	8558.9	8806.9
67.5°	172.2	168.0	113.5	105.0	117.7	264.7	1575.6	3428.6	4962.2	5378.2
70°	138.7	138.7	96.6	84.0	84.0	121.9	411.8	1365.5	2243.7	2483.2
72.5°	100.8	105.0	75.6	67.2	63.0	58.8	67.2	273.1	588.3	752.1
75°	88.2	92.4	75.6	58.8	46.3	37.8	29.4	25.2	33.6	54.6
77.5°	96.6	96.6	79.8	54.6	42.0	29.4	16.8	8.4	8.4	4.2
80°	121.9	126.1	105.0	71.4	50.5	33.6	21.0	8.4	4.2	4.2
82.5°	130.3	142.9	117.7	88.2	63.0	37.8	21.0	4.2	0.0	0.0
85°	33.6	54.6	92.4	79.8	63.0	37.8	21.0	4.2	0.0	0.0
87.5°	0.0	4.2	12.6	12.6	16.8	16.8	12.6	4.2	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)