

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: P648654

Luminaire Tested: **GALN-SA9B-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648654  
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-SA9B-835-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 22329.6 lumens  
Efficiency: N/A  
Efficacy: 61.3 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

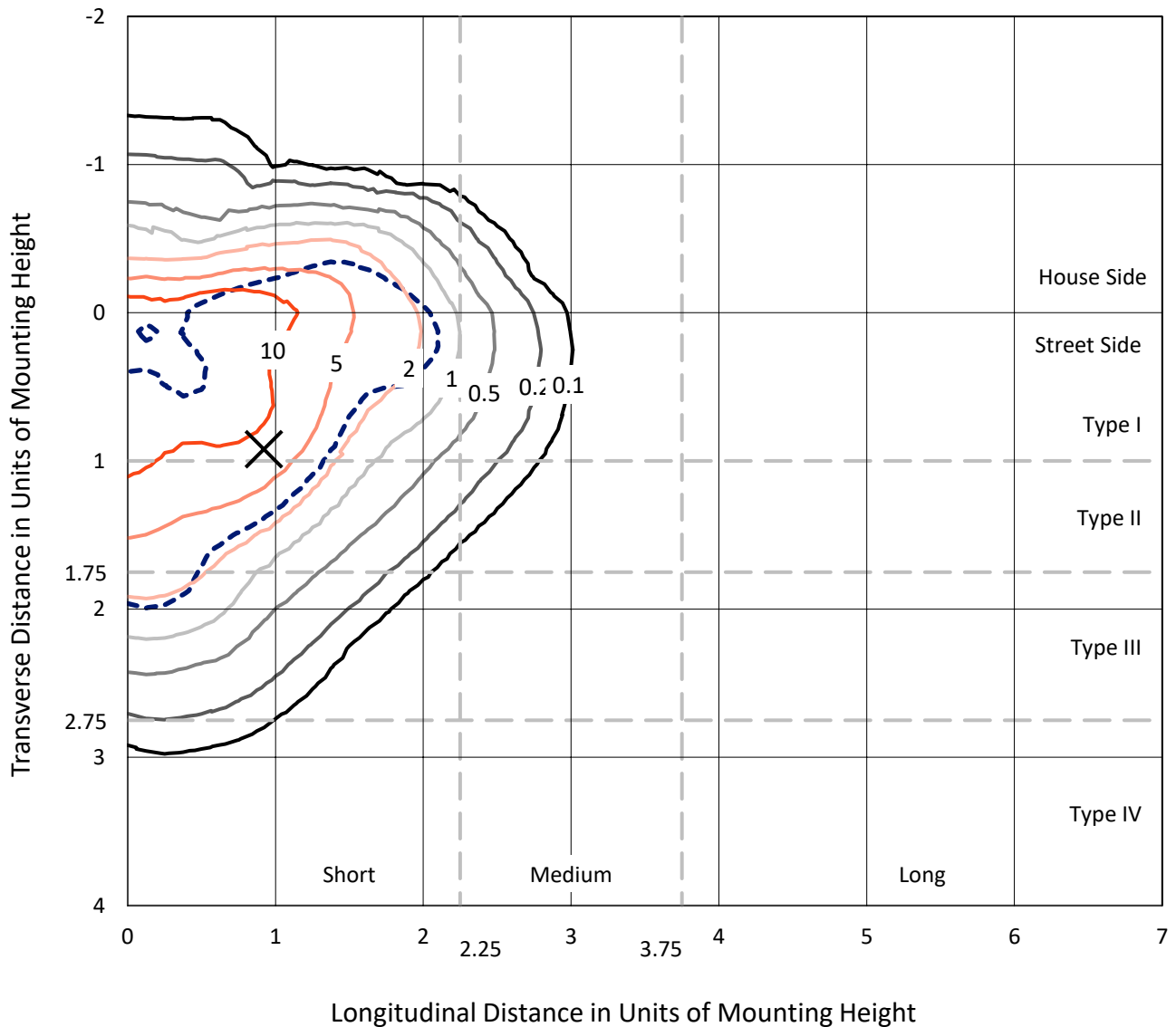
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

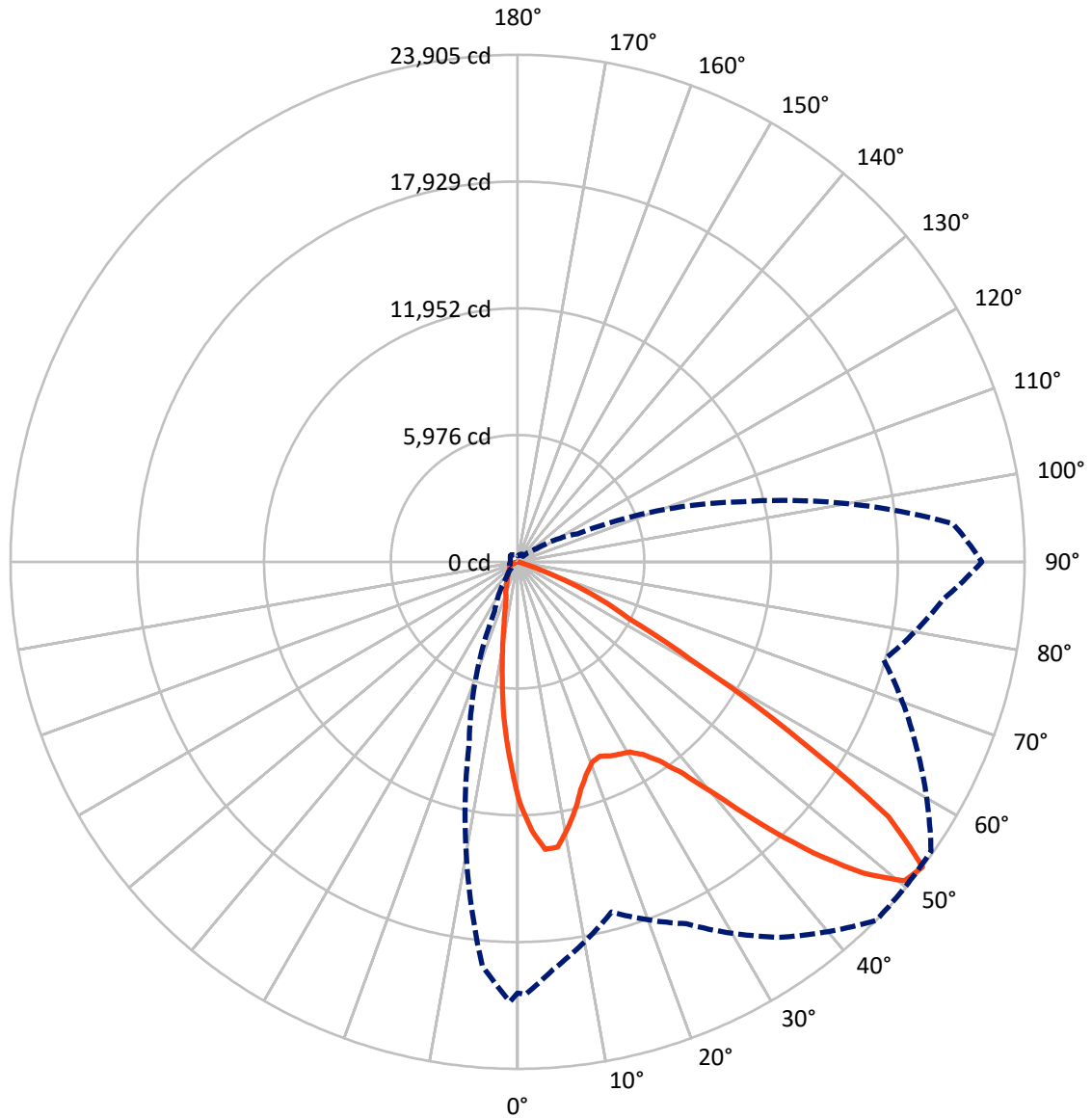
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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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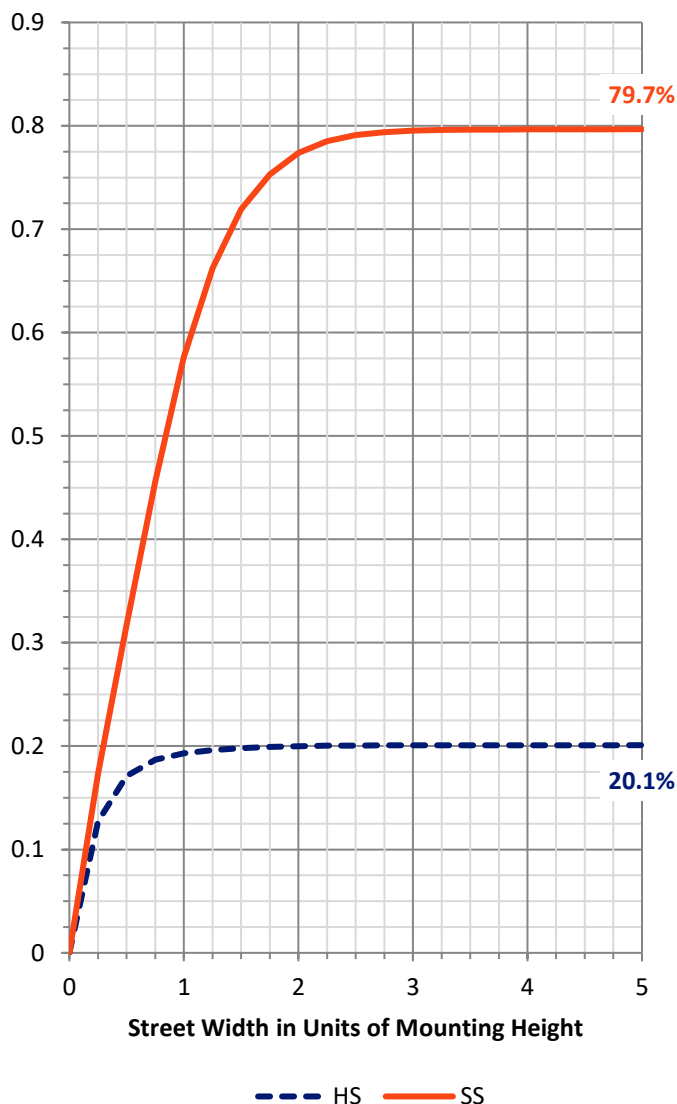
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4531.8	0.0	4531.8
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	17797.8	0.0	17797.8
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	22329.6	0.0	22329.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.7	3.7
10°-20°	1629.1	7.3
20°-30°	2479.2	11.1
30°-40°	3705.5	16.6
40°-50°	5276.9	23.6
50°-60°	5672.5	25.4
60°-70°	2513.6	11.3
70°-80°	203.4	0.9
80°-90°	23.7	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°	22329.6	100.0
0°-180°	22329.6	100.0

**Coefficient of Utilization**

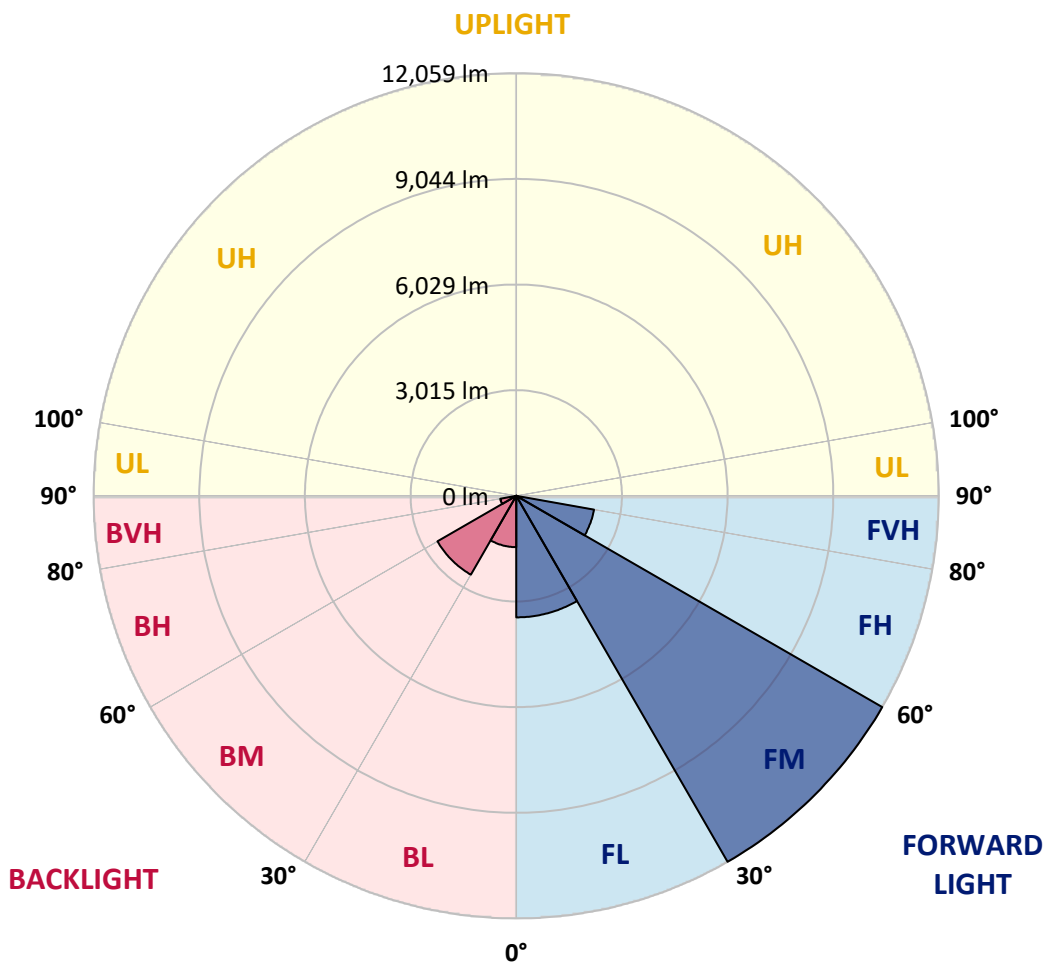


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3468.2	15.5			
FM (30°-60°)	12058.7	54.0			
FH (60°-80°)	2253.3	10.1			G2/5000
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1465.8	6.6	B3/2500		
BM (30°-60°)	2596.2	11.6	B3/5000		
BH (60°-80°)	463.7	2.1	B1/500		G1/500
BVH (80°-90°)	6.1	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°	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2
2.5°	11980.9	12016.1	12209.3	12450.9	12578.2	12868.1	12666.0	12718.7	12609.0	12222.5	11919.5
5°	11616.4	11612.0	11857.9	12455.3	13021.8	13597.1	13614.6	13307.2	12767.0	12174.2	11326.6
7.5°	10518.4	10689.8	10944.5	11897.5	12947.1	13377.6	13584.0	13223.8	12393.7	11546.1	10628.2
10°	9688.4	9776.2	10206.6	11357.3	12125.9	12701.2	12828.5	12622.1	11985.3	10926.8	9899.2
12.5°	9209.6	9253.6	9758.7	10724.8	11537.3	11963.4	12024.8	12121.5	11664.7	10672.1	9438.0
15°	9214.0	9249.2	9929.9	10738.1	11058.6	10944.5	11146.5	11142.1	11339.7	10623.8	9824.5
17.5°	9877.2	9916.8	10531.6	10931.3	10790.8	10522.8	10509.7	10711.7	11128.9	11225.6	10408.7
20°	11019.1	11111.3	11563.7	11541.7	10751.2	10211.0	10061.7	10215.4	11186.0	11735.0	11585.7
22.5°	12556.3	12683.6	12999.8	12393.7	10931.3	10000.2	9951.9	10250.6	11563.7	12872.4	12920.8
25°	14339.3	14554.6	14708.3	13930.9	11572.5	10364.7	10136.3	10650.2	12073.2	14106.5	14620.4
27.5°	15520.7	15744.7	15709.6	14598.5	12002.8	10461.3	10268.1	10746.8	12516.7	14400.8	15507.5
30°	16443.0	16579.2	16825.1	14958.6	12433.3	10733.6	10404.3	11155.2	12661.7	14910.3	16579.2
32.5°	17519.0	17611.2	17628.8	15595.4	13096.5	11076.2	10825.8	11664.7	13302.9	15397.8	17527.8
35°	18603.8	18739.9	18454.4	16381.5	13504.9	11713.1	11528.6	12547.5	13816.7	15902.8	18573.1
37.5°	19780.8	19851.1	19192.3	16706.6	14089.0	12749.5	12648.5	13500.5	14708.3	16816.3	19732.5
40°	20769.0	20834.8	19978.5	17106.2	14703.9	14198.8	14457.9	15318.7	15920.4	17409.2	20312.2
42.5°	21318.0	21471.7	20242.0	16886.6	15938.0	15841.3	16992.0	17295.1	17325.8	17576.1	20830.5
45°	21467.3	21397.0	19807.2	17066.7	17018.3	18542.3	19587.6	19987.2	18722.4	17883.6	20962.2
47.5°	20777.8	20870.0	19166.0	16908.6	18436.9	20588.9	21941.6	22683.8	19763.2	17615.6	20637.2
50°	20220.0	20101.4	18959.6	16794.3	18819.0	21555.1	23641.2	23808.1	20720.7	17945.0	20281.5
52.5°	20329.8	20404.4	19288.9	17097.4	18827.8	21612.2	23904.8	23790.5	20751.4	17870.3	20154.1
55°	20562.5	20233.2	19148.4	16429.8	17567.3	20017.9	21217.0	21041.2	19152.8	17075.4	19842.3
57.5°	17743.0	18252.4	17606.9	14668.7	14418.4	15081.5	15059.6	15599.8	14286.6	14695.0	18063.6
60°	14400.8	14488.6	14730.2	12547.5	9978.2	9749.8	9433.7	9091.1	9613.8	12565.0	16429.8
62.5°	12666.0	12560.7	13421.4	11414.3	7044.5	5898.3	5845.6	6056.3	7417.8	11985.3	15410.9
65°	9205.3	9337.0	9960.7	8858.3	5287.8	4501.6	4422.5	5046.2	6003.7	9604.9	11761.3
67.5°	5621.5	5876.3	5933.3	5463.5	3588.1	2850.3	2736.1	3302.7	4334.8	6214.4	6895.2
70°	2595.6	2903.0	3192.8	2982.1	2077.3	1172.6	1106.8	1387.8	2187.2	3574.9	3658.4
72.5°	786.1	790.5	1106.8	1155.1	672.0	263.5	232.8	307.4	742.2	1181.4	1242.9
75°	57.1	61.5	149.3	171.3	127.4	65.9	70.2	83.5	158.1	263.5	197.6
77.5°	4.4	4.4	4.4	21.9	39.5	43.9	57.1	65.9	83.5	96.6	87.9
80°	4.4	0.0	4.4	17.5	30.8	43.9	52.7	61.5	65.9	74.7	65.9
82.5°	0.0	0.0	0.0	13.2	30.8	43.9	48.3	65.9	74.7	87.9	74.7
85°	0.0	0.0	0.0	13.2	30.8	48.3	43.9	21.9	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°	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2
2.5°	11972.1	11800.8	11410.0	11212.3	10746.8	10680.9	10224.2	10149.6	9995.8	9912.4	9710.4
5°	10953.2	10746.8	10110.0	9574.2	8950.6	8515.8	8182.0	7878.9	7703.3	7540.8	7615.5
7.5°	10123.2	9521.5	8814.4	7918.5	7198.2	6732.7	6223.2	5806.0	5560.1	5393.1	5432.7
10°	9253.6	8862.7	7878.9	6873.3	6003.7	5674.2	5274.6	4954.0	4607.0	4308.4	4167.8
12.5°	8981.3	8401.6	7167.5	6144.2	5485.4	5164.8	4708.0	4339.2	3895.6	3531.0	3403.7
15°	9029.6	8471.8	6974.3	5880.6	5103.3	4549.9	4005.4	3548.6	3061.1	2806.4	2674.6
17.5°	9815.8	8849.5	7101.6	5604.0	4571.9	3803.3	3131.4	2551.6	2187.2	1923.6	1866.5
20°	10781.9	9666.4	7373.9	5401.9	4137.1	3026.0	2288.2	1787.5	1484.4	1440.5	1427.3
22.5°	12196.1	11001.5	7958.0	5265.8	3605.7	2358.4	1567.9	1300.0	1216.5	1207.8	1212.2
25°	14172.5	12674.8	8594.8	5151.6	3206.1	1818.2	1282.4	1102.4	1076.0	1062.8	1084.8
27.5°	15028.8	13685.0	8933.0	4905.7	2841.5	1638.1	1264.9	1093.5	1018.9	996.9	1010.1
30°	16087.3	14356.9	9464.4	4484.1	2305.7	1348.3	1181.4	1190.2	1155.1	1045.2	1010.1
32.5°	17492.7	15195.8	9732.3	4185.4	2059.8	1115.5	865.2	794.9	887.1	904.7	935.5
35°	18393.0	16047.7	9868.5	4009.7	1932.4	953.0	733.4	667.6	645.6	650.0	667.6
37.5°	20066.3	17198.4	10039.7	3825.3	1835.8	830.1	663.2	601.7	571.0	571.0	588.5
40°	21067.6	18111.9	10272.5	3724.3	1739.2	755.4	601.7	549.0	522.7	522.7	531.4
42.5°	21318.0	18564.3	10193.4	3689.1	1629.3	737.8	549.0	509.4	478.7	474.3	470.0
45°	21765.9	19253.8	10206.6	3649.6	1515.2	672.0	518.3	474.3	430.4	426.0	421.6
47.5°	22257.8	19750.1	10232.9	3495.9	1405.4	562.1	540.2	439.2	386.5	377.7	377.7
50°	21836.2	20145.3	10461.3	3342.2	1264.9	456.7	531.4	412.8	342.6	329.4	333.8
52.5°	21888.9	20610.8	10944.5	3127.0	1089.2	364.5	430.4	390.9	311.8	289.9	294.3
55°	21045.6	20119.0	11010.3	2898.6	852.0	281.1	329.4	342.6	263.5	254.7	254.7
57.5°	18116.3	17035.9	9714.8	2349.6	562.1	232.8	237.2	298.6	228.4	219.6	224.0
60°	15503.2	13676.2	7817.5	1550.3	351.3	184.5	171.3	303.0	202.0	197.6	210.8
62.5°	14132.9	11238.7	5929.0	961.8	241.6	140.5	118.5	245.9	175.7	175.7	193.2
65°	10211.0	7549.5	3447.5	505.0	171.3	109.8	87.9	140.5	144.9	149.3	158.1
67.5°	6324.2	3812.1	1453.7	245.9	114.2	74.7	57.1	87.9	96.6	96.6	105.4
70°	3122.6	1519.6	483.1	140.5	87.9	61.5	39.5	48.3	48.3	43.9	48.3
72.5°	966.2	456.7	123.0	87.9	61.5	39.5	21.9	17.5	8.8	0.0	4.4
75°	109.8	87.9	79.1	61.5	39.5	17.5	4.4	0.0	0.0	0.0	0.0
77.5°	65.9	74.7	74.7	61.5	39.5	13.2	0.0	0.0	0.0	0.0	0.0
80°	52.7	57.1	61.5	57.1	35.2	17.5	0.0	0.0	0.0	0.0	0.0
82.5°	65.9	74.7	83.5	74.7	48.3	21.9	8.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	13.2	4.4	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°	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2
2.5°	9626.9	9530.3	9666.4	9464.4	9460.0	9464.4	9407.3	9354.6	9438.0	9662.1	9684.0
5°	7347.5	7553.9	7619.8	7835.0	7716.5	7540.8	7575.9	7457.3	7747.2	7874.6	7773.5
7.5°	5349.2	5336.1	5779.6	5806.0	5863.1	5867.5	5858.7	5625.9	5388.8	5441.5	5599.6
10°	4150.3	3926.3	4141.5	4119.5	4260.1	4220.5	4277.6	4027.3	4110.8	4110.8	4211.8
12.5°	3381.7	3144.5	3105.0	3047.9	3105.0	3127.0	3148.9	3100.6	3241.2	3307.1	3377.3
15°	2582.4	2450.6	2415.5	2305.7	2323.3	2384.8	2437.5	2459.4	2415.5	2516.5	2525.3
17.5°	1875.3	1870.9	1892.9	1888.5	1870.9	1857.7	1853.4	1796.3	1778.7	1787.5	1822.6
20°	1422.9	1458.1	1532.7	1607.4	1647.0	1598.7	1532.7	1436.1	1396.6	1405.4	1409.8
22.5°	1216.5	1269.2	1370.2	1453.7	1493.3	1405.4	1286.8	1203.4	1185.8	1181.4	1177.0
25°	1102.4	1163.9	1238.5	1264.9	1260.5	1207.8	1119.9	1084.8	1076.0	1067.2	1027.7
27.5°	1040.8	1062.8	1076.0	1106.8	1119.9	1084.8	1062.8	1010.1	1001.3	1001.3	975.0
30°	1005.8	992.5	1010.1	988.1	1005.8	979.4	983.8	983.8	961.8	970.6	970.6
32.5°	935.5	939.8	939.8	895.9	909.1	878.4	909.1	935.5	939.8	944.2	979.4
35°	685.1	764.2	803.7	803.7	816.9	794.9	790.5	759.8	720.3	680.7	663.2
37.5°	601.7	632.4	685.1	715.9	737.8	720.3	680.7	632.4	610.4	592.9	575.3
40°	535.8	562.1	597.3	632.4	676.4	654.4	592.9	571.0	544.6	544.6	527.0
42.5°	483.1	496.3	518.3	571.0	619.3	575.3	531.4	513.9	500.7	496.3	491.9
45°	434.8	439.2	461.1	505.0	562.1	518.3	474.3	452.3	456.7	461.1	456.7
47.5°	390.9	399.6	412.8	465.6	500.7	478.7	430.4	417.3	417.3	417.3	421.6
50°	338.2	360.1	386.5	430.4	456.7	443.6	404.0	386.5	377.7	377.7	382.1
52.5°	303.0	320.6	355.7	408.4	443.6	421.6	382.1	355.7	338.2	333.8	342.6
55°	263.5	294.3	351.3	390.9	439.2	417.3	373.3	342.6	311.8	307.4	307.4
57.5°	237.2	285.5	338.2	386.5	426.0	408.4	373.3	333.8	294.3	289.9	289.9
60°	224.0	276.7	329.4	373.3	426.0	399.6	368.9	325.0	281.1	281.1	276.7
62.5°	210.8	259.1	311.8	355.7	408.4	386.5	355.7	311.8	267.9	267.9	259.1
65°	175.7	224.0	259.1	298.6	355.7	333.8	303.0	272.3	237.2	228.4	232.8
67.5°	123.0	153.7	188.9	228.4	263.5	254.7	241.6	219.6	188.9	184.5	180.1
70°	61.5	83.5	114.2	153.7	184.5	175.7	166.9	149.3	131.8	127.4	127.4
72.5°	8.8	26.4	48.3	70.2	96.6	101.0	96.6	92.2	87.9	83.5	87.9
75°	0.0	0.0	0.0	17.5	39.5	48.3	57.1	65.9	65.9	57.1	70.2
77.5°	0.0	0.0	0.0	0.0	4.4	21.9	43.9	57.1	70.2	61.5	83.5
80°	0.0	0.0	0.0	0.0	4.4	26.4	43.9	61.5	70.2	61.5	87.9
82.5°	0.0	0.0	0.0	0.0	4.4	30.8	43.9	57.1	65.9	61.5	79.1
85°	0.0	0.0	0.0	0.0	13.2	26.4	17.5	8.8	4.4	4.4	13.2
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: P648654

CATALOG NUMBER: GALN-SA9B-835-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2	11322.2
2.5°	9807.0	10118.8	10452.6	10579.9	10975.2	11273.9	11475.9	11910.7	11976.5	11980.9
5°	7878.9	8037.0	8608.0	8875.9	9464.4	9921.2	10408.7	11111.3	11581.3	11616.4
7.5°	5599.6	6038.7	6280.3	6978.6	7703.3	8419.1	9143.8	9960.7	10505.3	10518.4
10°	4506.0	4791.5	5221.9	5744.5	6355.0	7084.0	8050.3	8998.9	9552.2	9688.4
12.5°	3627.6	4128.3	4620.2	5160.4	5625.9	6174.9	7215.8	8480.6	8937.4	9209.6
15°	2793.2	3249.9	3829.7	4462.1	4989.1	5722.6	6908.3	8353.3	9121.9	9214.0
17.5°	2059.8	2468.2	3004.0	3601.3	4391.8	5432.7	6961.0	8998.9	9723.5	9877.2
20°	1480.0	1717.2	2138.8	2832.7	3838.4	5094.5	7013.7	9653.2	10755.6	11019.1
22.5°	1172.6	1269.2	1546.0	2160.8	3219.2	4738.8	7387.1	10904.9	12174.2	12556.3
25°	1018.9	1071.6	1203.4	1704.0	2828.4	4703.6	7984.3	12406.9	14062.7	14339.3
27.5°	983.8	992.5	1106.8	1563.5	2617.6	4470.9	8212.7	13474.2	15239.7	15520.7
30°	1036.5	1177.0	1185.8	1321.9	2226.7	4009.7	8331.3	14506.2	16236.6	16443.0
32.5°	895.9	852.0	882.8	1023.3	1958.8	3741.9	8555.3	15406.5	17374.1	17519.0
35°	623.7	654.4	724.7	887.1	1712.8	3460.8	8612.4	16399.1	18454.4	18603.8
37.5°	575.3	592.9	650.0	755.4	1506.4	3302.7	8533.3	17123.7	19574.4	19780.8
40°	535.8	557.7	588.5	685.1	1352.7	3127.0	8423.5	17778.2	20259.5	20769.0
42.5°	505.0	522.7	549.0	654.4	1220.9	2951.3	8269.8	18700.4	20874.4	21318.0
45°	470.0	496.3	527.0	636.8	1146.2	2832.7	8155.6	18643.3	21230.1	21467.3
47.5°	434.8	478.7	513.9	592.9	1124.3	2775.7	8204.0	18428.1	20940.2	20777.8
50°	399.6	456.7	518.3	491.9	1071.6	2661.4	8261.0	18722.4	20250.7	20220.0
52.5°	368.9	434.8	483.1	404.0	953.0	2551.6	8814.4	19108.9	20738.2	20329.8
55°	325.0	390.9	386.5	325.0	773.0	2468.2	9249.2	19117.6	20408.8	20562.5
57.5°	294.3	346.9	303.0	272.3	571.0	2064.1	8542.1	16030.2	17470.7	17743.0
60°	272.3	338.2	228.4	215.2	373.3	1488.8	7457.3	12415.7	13887.0	14400.8
62.5°	250.3	320.6	180.1	175.7	259.1	1058.5	6131.0	10391.0	11967.8	12666.0
65°	219.6	228.4	144.9	136.2	184.5	571.0	3733.0	7154.3	8946.2	9205.3
67.5°	180.1	175.7	118.5	109.8	123.0	276.7	1647.0	3583.7	5186.7	5621.5
70°	144.9	144.9	101.0	87.9	87.9	127.4	430.4	1427.3	2345.2	2595.6
72.5°	105.4	109.8	79.1	70.2	65.9	61.5	70.2	285.5	614.9	786.1
75°	92.2	96.6	79.1	61.5	48.3	39.5	30.8	26.4	35.2	57.1
77.5°	101.0	101.0	83.5	57.1	43.9	30.8	17.5	8.8	8.8	4.4
80°	127.4	131.8	109.8	74.7	52.7	35.2	21.9	8.8	4.4	4.4
82.5°	136.2	149.3	123.0	92.2	65.9	39.5	21.9	4.4	0.0	0.0
85°	35.2	57.1	96.6	83.5	65.9	39.5	21.9	4.4	0.0	0.0
87.5°	0.0	4.4	13.2	13.2	17.5	17.5	13.2	4.4	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)