

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: P652119

Luminaire Tested: **GALN-SA9A-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652119
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-SA9A-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 19274.9 lumens
Efficiency: N/A
Efficacy: 70.3 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

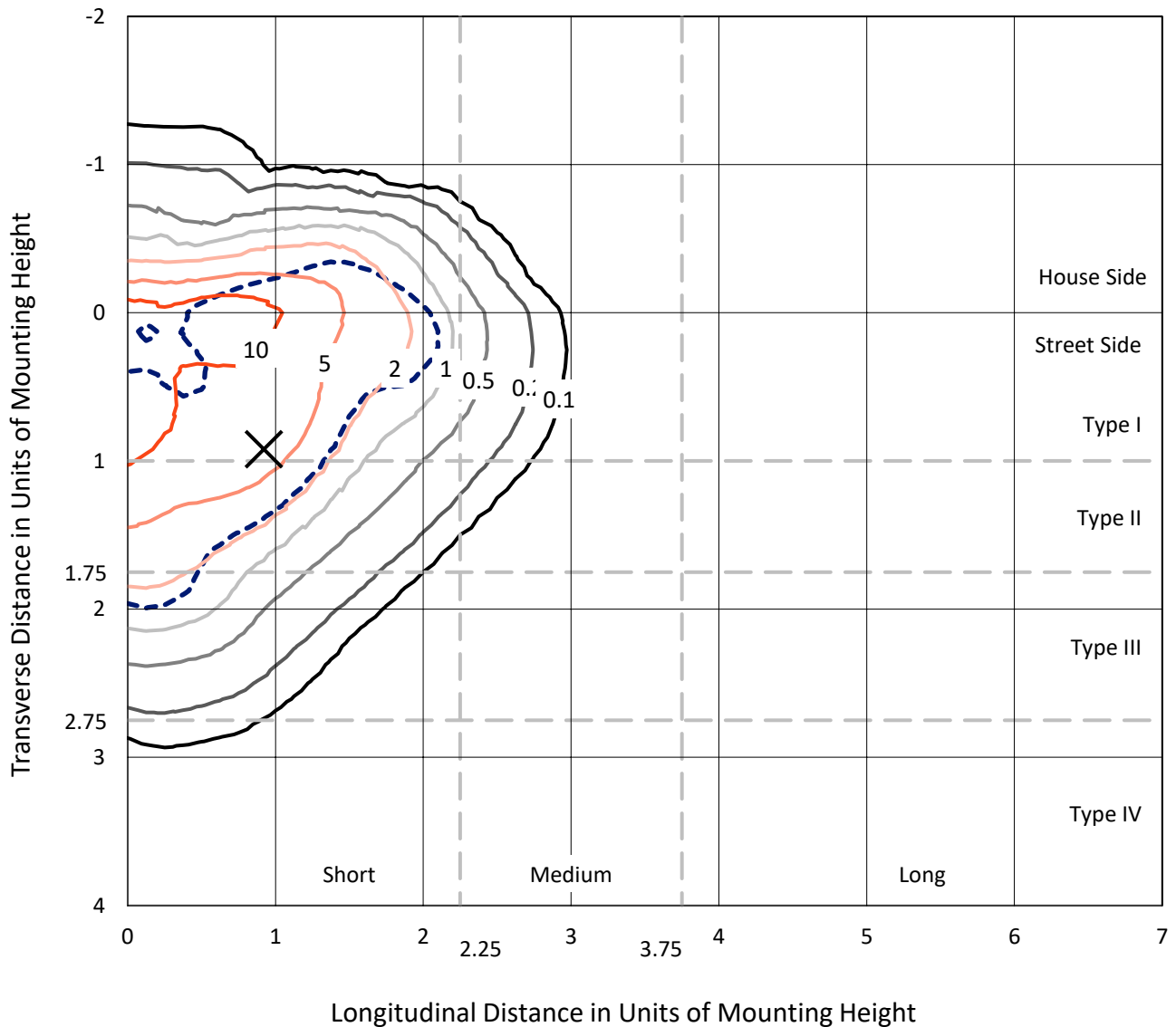
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

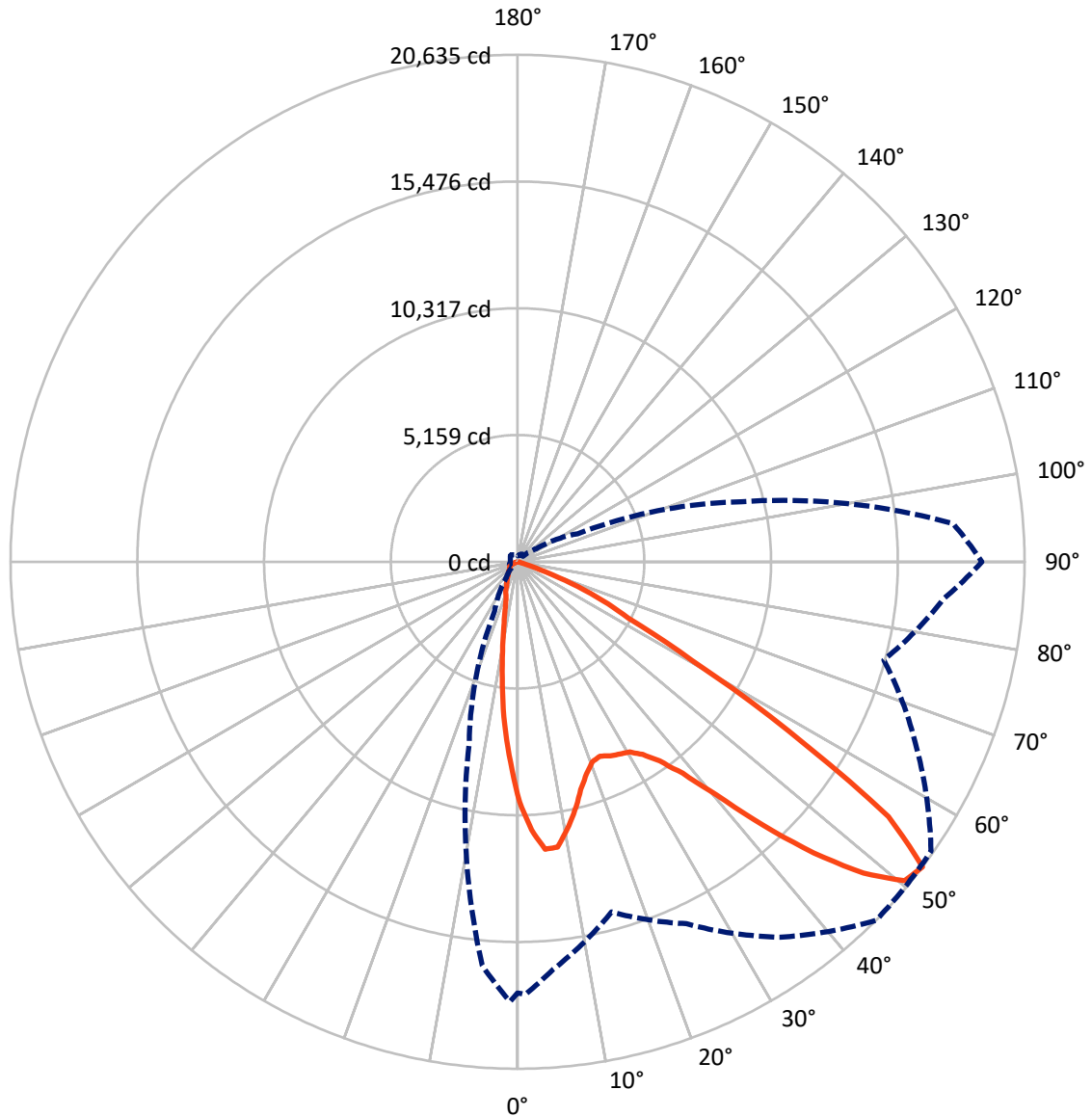
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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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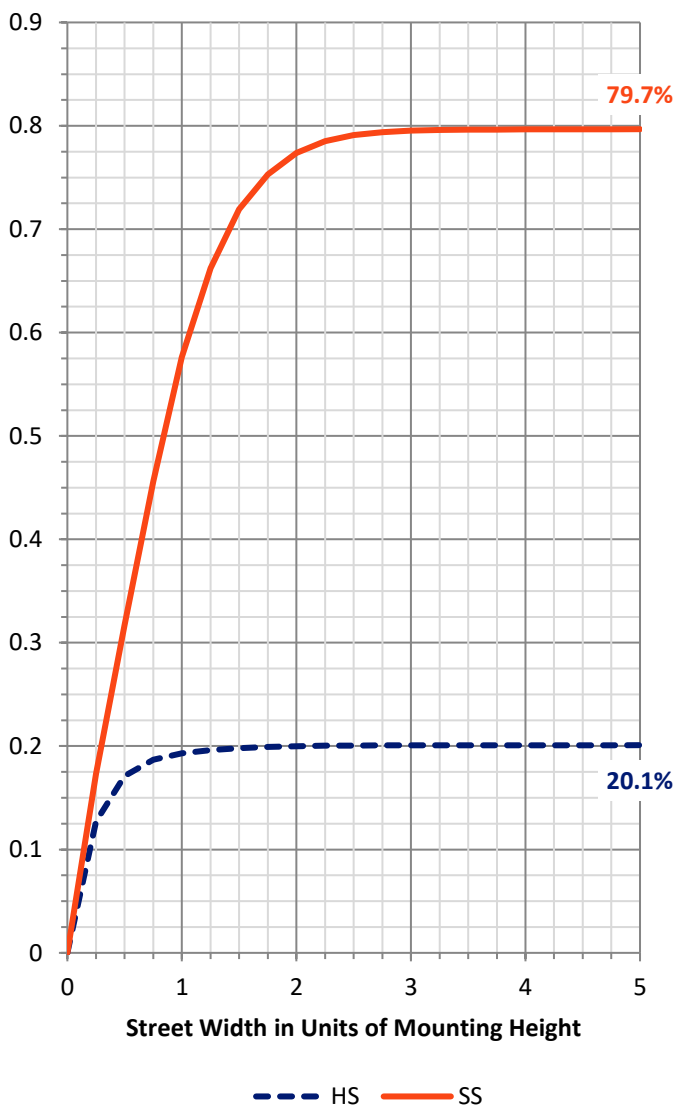
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3911.8	0.0	3911.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	15363.0	0.0	15363.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	19274.9	0.0	19274.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.8	3.7
10°-20°	1406.2	7.3
20°-30°	2140.0	11.1
30°-40°	3198.5	16.6
40°-50°	4555.0	23.6
50°-60°	4896.5	25.4
60°-70°	2169.8	11.3
70°-80°	175.6	0.9
80°-90°	20.5	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°	19274.9	100.0
0°-180°	19274.9	100.0

Coefficient of Utilization



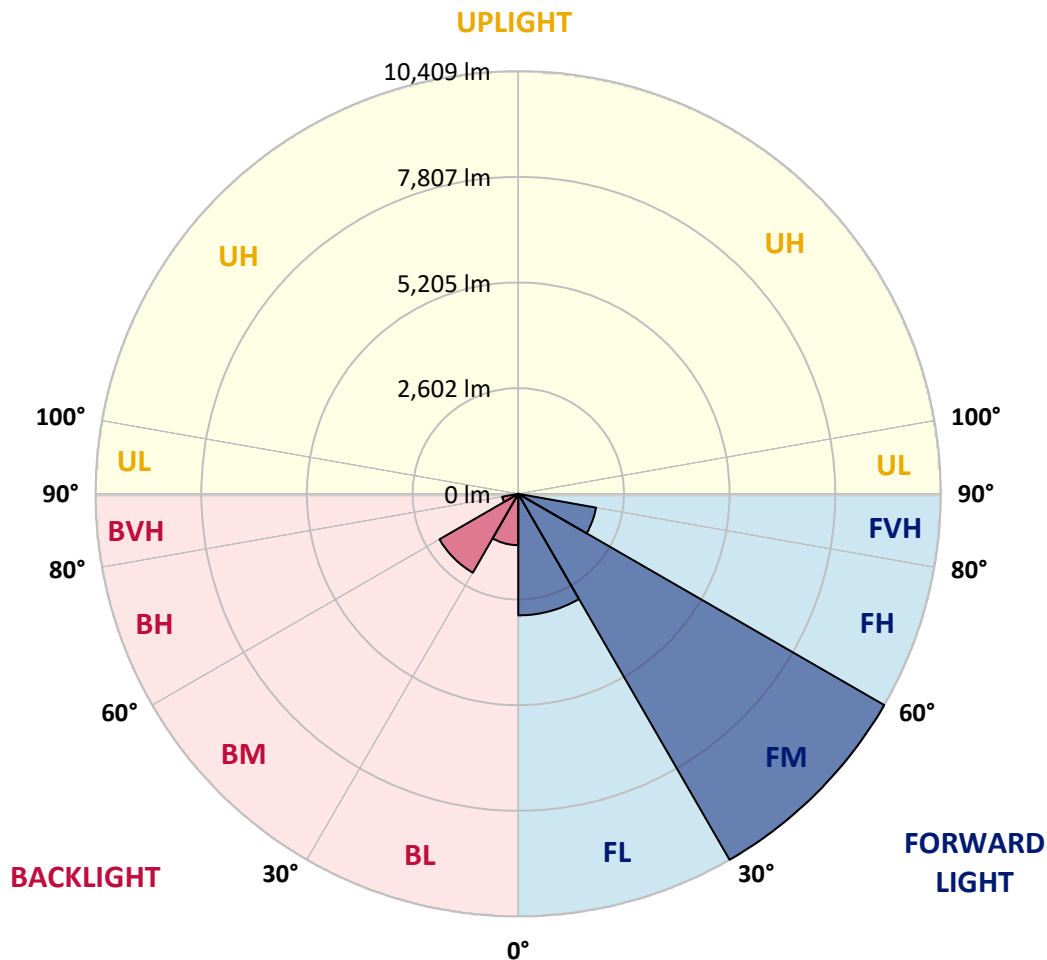
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2993.8	15.5			
FM (30°-60°)	10409.0	54.0			
FH (60°-80°)	1945.1	10.1			G2/5000
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1265.2	6.6	B3/2500		
BM (30°-60°)	2241.1	11.6	B2/2500		
BH (60°-80°)	400.2	2.1	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3
2.5°	10341.9	10372.2	10539.1	10747.6	10857.5	11107.7	10933.3	10978.8	10884.1	10550.4	10288.9
5°	10027.2	10023.5	10235.7	10751.3	11240.4	11737.0	11752.1	11486.8	11020.5	10508.7	9777.0
7.5°	9079.5	9227.4	9447.2	10269.9	11176.0	11547.4	11725.6	11414.8	10698.3	9966.6	9174.3
10°	8363.0	8438.8	8810.3	9803.6	10467.0	10963.6	11073.6	10895.4	10345.7	9432.1	8545.0
12.5°	7949.8	7987.6	8423.6	9257.6	9959.0	10326.7	10379.8	10463.2	10069.0	9212.2	8146.9
15°	7953.6	7983.9	8571.5	9269.1	9545.8	9447.2	9621.6	9617.8	9788.4	9170.5	8480.6
17.5°	8526.0	8560.1	9090.9	9435.9	9314.6	9083.3	9072.0	9246.3	9606.5	9689.8	8984.7
20°	9511.7	9591.3	9981.7	9962.8	9280.4	8814.1	8685.3	8817.9	9655.8	10129.6	10000.8
22.5°	10838.6	10948.5	11221.5	10698.3	9435.9	8632.2	8590.5	8848.2	9981.7	11111.5	11153.2
25°	12377.7	12563.4	12696.2	12025.1	9989.3	8946.8	8749.7	9193.2	10421.5	12176.8	12620.3
27.5°	13397.5	13590.8	13560.5	12601.4	10360.9	9030.2	8863.4	9276.7	10804.4	12430.7	13386.1
30°	14193.6	14311.1	14523.4	12912.2	10732.4	9265.3	8981.0	9629.2	10929.6	12870.5	14311.1
32.5°	15122.4	15202.0	15217.1	13461.9	11304.8	9561.0	9344.9	10069.0	11483.0	13291.3	15130.0
35°	16058.8	16176.3	15929.9	14140.5	11657.4	10110.7	9951.5	10831.0	11926.6	13727.3	16032.2
37.5°	17074.7	17135.5	16566.8	14421.0	12161.6	11005.3	10918.1	11653.6	12696.2	14515.8	17033.1
40°	17927.8	17984.6	17245.4	14766.0	12692.4	12256.4	12480.0	13223.1	13742.4	15027.6	17533.5
42.5°	18401.7	18534.3	17472.9	14576.5	13757.7	13674.2	14667.5	14929.0	14955.6	15171.6	17980.8
45°	18530.5	18469.9	17097.5	14731.9	14690.3	16005.7	16908.0	17252.9	16161.2	15437.1	18094.5
47.5°	17935.3	18015.0	16544.1	14595.5	15914.7	17772.3	18940.0	19580.7	17059.6	15205.8	17814.1
50°	17453.9	17351.5	16365.9	14496.9	16244.5	18606.4	20407.1	20551.2	17886.1	15490.1	17506.9
52.5°	17548.6	17613.1	16650.2	14758.5	16252.2	18655.7	20634.5	20536.0	17912.6	15425.7	17397.0
55°	17749.6	17465.2	16528.8	14182.2	15164.1	17279.5	18314.5	18162.8	16532.6	14739.5	17127.8
57.5°	15315.7	15755.5	15198.2	12662.0	12446.0	13018.3	12999.4	13465.8	12332.2	12684.8	15592.5
60°	12430.7	12506.6	12715.1	10831.0	8613.2	8416.1	8143.2	7847.5	8298.6	10846.1	14182.2
62.5°	10933.3	10842.3	11585.4	9852.9	6080.8	5091.3	5045.8	5227.8	6403.0	10345.7	13302.7
65°	7946.0	8059.7	8598.0	7646.5	4564.4	3885.8	3817.6	4355.9	5182.3	8291.0	10152.4
67.5°	4852.5	5072.4	5121.7	4716.1	3097.2	2460.3	2361.8	2850.8	3741.8	5364.3	5951.9
70°	2240.5	2505.8	2756.0	2574.1	1793.2	1012.2	955.4	1198.0	1888.0	3085.9	3158.0
72.5°	678.6	682.4	955.4	997.0	580.0	227.5	200.9	265.3	640.7	1019.8	1072.9
75°	49.3	53.1	128.9	147.8	109.9	56.9	60.6	72.0	136.5	227.5	170.6
77.5°	3.8	3.8	3.8	18.9	34.1	37.9	49.3	56.9	72.0	83.4	75.9
80°	3.8	0.0	3.8	15.1	26.6	37.9	45.5	53.1	56.9	64.4	56.9
82.5°	0.0	0.0	0.0	11.4	26.6	37.9	41.7	56.9	64.4	75.9	64.4
85°	0.0	0.0	0.0	11.4	26.6	41.7	37.9	18.9	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°	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3
2.5°	10334.3	10186.4	9849.1	9678.5	9276.7	9219.8	8825.5	8761.0	8628.4	8556.3	8382.0
5°	9454.8	9276.7	8727.0	8264.4	7726.1	7350.8	7062.7	6801.1	6649.5	6509.2	6573.7
7.5°	8738.3	8218.9	7608.6	6835.2	6213.5	5811.6	5371.9	5011.8	4799.4	4655.4	4689.5
10°	7987.6	7650.3	6801.1	5932.9	5182.3	4898.0	4553.0	4276.3	3976.8	3719.0	3597.7
12.5°	7752.7	7252.2	6187.0	5303.7	4735.0	4458.2	4064.0	3745.6	3362.7	3048.0	2938.0
15°	7794.3	7312.9	6020.1	5076.2	4405.2	3927.5	3457.4	3063.2	2642.3	2422.5	2308.7
17.5°	8472.9	7638.9	6130.0	4837.3	3946.5	3283.0	2703.0	2202.6	1888.0	1660.5	1611.2
20°	9306.9	8344.1	6365.1	4662.9	3571.1	2612.0	1975.1	1543.0	1281.3	1243.4	1232.1
22.5°	10527.6	9496.5	6869.4	4545.4	3112.5	2035.8	1353.4	1122.1	1050.1	1042.5	1046.3
25°	12233.6	10940.9	7419.0	4446.9	2767.5	1569.5	1107.0	951.5	928.8	917.4	936.4
27.5°	12972.8	11812.9	7711.0	4234.6	2452.8	1414.1	1091.8	943.9	879.5	860.6	871.9
30°	13886.5	12392.9	8169.6	3870.6	1990.3	1163.9	1019.8	1027.4	997.0	902.2	871.9
32.5°	15099.7	13116.9	8400.9	3612.9	1778.0	962.9	746.8	686.2	765.8	781.0	807.5
35°	15876.8	13852.4	8518.4	3461.2	1668.0	822.7	633.1	576.3	557.2	561.0	576.3
37.5°	17321.2	14845.7	8666.3	3302.0	1584.6	716.5	572.5	519.4	492.8	492.8	508.0
40°	18185.5	15634.2	8867.2	3214.8	1501.3	652.0	519.4	473.9	451.1	451.1	458.7
42.5°	18401.7	16024.7	8799.0	3184.4	1406.5	636.9	473.9	439.8	413.2	409.4	405.6
45°	18788.3	16619.8	8810.3	3150.3	1307.9	580.0	447.3	409.4	371.6	367.8	363.9
47.5°	19212.9	17048.2	8833.1	3017.7	1213.1	485.3	466.3	379.1	333.6	326.1	326.1
50°	18849.0	17389.4	9030.2	2885.0	1091.8	394.3	458.7	356.3	295.7	284.3	288.1
52.5°	18894.5	17791.3	9447.2	2699.2	940.2	314.6	371.6	337.4	269.2	250.2	254.0
55°	18166.6	17366.6	9504.1	2502.1	735.5	242.6	284.3	295.7	227.5	219.8	219.8
57.5°	15638.0	14705.4	8385.8	2028.2	485.3	200.9	204.7	257.8	197.1	189.6	193.3
60°	13382.3	11805.3	6748.0	1338.2	303.3	159.2	147.8	261.6	174.4	170.6	182.0
62.5°	12199.5	9701.3	5117.9	830.2	208.5	121.3	102.3	212.3	151.6	151.6	166.8
65°	8814.1	6516.7	2976.0	436.0	147.8	94.8	75.9	121.3	125.1	128.9	136.5
67.5°	5459.1	3290.6	1254.9	212.3	98.6	64.4	49.3	75.9	83.4	83.4	91.0
70°	2695.4	1311.7	417.1	121.3	75.9	53.1	34.1	41.7	41.7	37.9	41.7
72.5°	834.0	394.3	106.1	75.9	53.1	34.1	18.9	15.1	7.6	0.0	3.8
75°	94.8	75.9	68.2	53.1	34.1	15.1	3.8	0.0	0.0	0.0	0.0
77.5°	56.9	64.4	64.4	53.1	34.1	11.4	0.0	0.0	0.0	0.0	0.0
80°	45.5	49.3	53.1	49.3	30.4	15.1	0.0	0.0	0.0	0.0	0.0
82.5°	56.9	64.4	72.0	64.4	41.7	18.9	7.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	11.4	3.8	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°	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3
2.5°	8309.9	8226.5	8344.1	8169.6	8165.9	8169.6	8120.4	8074.9	8146.9	8340.3	8359.2
5°	6342.4	6520.5	6577.5	6763.2	6660.8	6509.2	6539.5	6437.2	6687.4	6797.3	6710.1
7.5°	4617.4	4606.1	4989.0	5011.8	5061.1	5064.8	5057.2	4856.3	4651.6	4697.1	4833.6
10°	3582.5	3389.1	3574.9	3556.0	3677.3	3643.2	3692.5	3476.4	3548.4	3548.4	3635.6
12.5°	2919.1	2714.4	2680.3	2631.0	2680.3	2699.2	2718.2	2676.5	2797.8	2854.6	2915.3
15°	2229.2	2115.4	2085.1	1990.3	2005.4	2058.5	2104.0	2122.9	2085.1	2172.2	2179.9
17.5°	1618.8	1615.0	1633.9	1630.1	1615.0	1603.6	1599.8	1550.6	1535.3	1543.0	1573.3
20°	1228.3	1258.6	1323.1	1387.5	1421.6	1379.9	1323.1	1239.6	1205.6	1213.1	1216.9
22.5°	1050.1	1095.6	1182.8	1254.9	1288.9	1213.1	1110.8	1038.7	1023.6	1019.8	1016.0
25°	951.5	1004.7	1069.1	1091.8	1088.0	1042.5	966.7	936.4	928.8	921.2	887.1
27.5°	898.4	917.4	928.8	955.4	966.7	936.4	917.4	871.9	864.4	864.4	841.6
30°	868.2	856.8	871.9	852.9	868.2	845.4	849.2	849.2	830.2	837.8	837.8
32.5°	807.5	811.3	811.3	773.4	784.7	758.2	784.7	807.5	811.3	815.1	845.4
35°	591.4	659.6	693.7	693.7	705.1	686.2	682.4	655.8	621.8	587.6	572.5
37.5°	519.4	545.9	591.4	618.0	636.9	621.8	587.6	545.9	527.0	511.7	496.6
40°	462.5	485.3	515.6	545.9	583.8	564.9	511.7	492.8	470.1	470.1	454.9
42.5°	417.1	428.4	447.3	492.8	534.5	496.6	458.7	443.5	432.2	428.4	424.6
45°	375.3	379.1	398.0	436.0	485.3	447.3	409.4	390.5	394.3	398.0	394.3
47.5°	337.4	345.0	356.3	401.8	432.2	413.2	371.6	360.1	360.1	360.1	363.9
50°	291.9	310.8	333.6	371.6	394.3	382.9	348.8	333.6	326.1	326.1	329.8
52.5°	261.6	276.8	307.0	352.5	382.9	363.9	329.8	307.0	291.9	288.1	295.7
55°	227.5	254.0	303.3	337.4	379.1	360.1	322.3	295.7	269.2	265.3	265.3
57.5°	204.7	246.4	291.9	333.6	367.8	352.5	322.3	288.1	254.0	250.2	250.2
60°	193.3	238.8	284.3	322.3	367.8	345.0	318.5	280.6	242.6	242.6	238.8
62.5°	182.0	223.7	269.2	307.0	352.5	333.6	307.0	269.2	231.3	231.3	223.7
65°	151.6	193.3	223.7	257.8	307.0	288.1	261.6	235.1	204.7	197.1	200.9
67.5°	106.1	132.7	163.0	197.1	227.5	219.8	208.5	189.6	163.0	159.2	155.4
70°	53.1	72.0	98.6	132.7	159.2	151.6	144.1	128.9	113.7	109.9	109.9
72.5°	7.6	22.7	41.7	60.6	83.4	87.2	83.4	79.6	75.9	72.0	75.9
75°	0.0	0.0	0.0	15.1	34.1	41.7	49.3	56.9	56.9	49.3	60.6
77.5°	0.0	0.0	0.0	0.0	3.8	18.9	37.9	49.3	60.6	53.1	72.0
80°	0.0	0.0	0.0	0.0	3.8	22.7	37.9	53.1	60.6	53.1	75.9
82.5°	0.0	0.0	0.0	0.0	3.8	26.6	37.9	49.3	56.9	53.1	68.2
85°	0.0	0.0	0.0	0.0	11.4	22.7	15.1	7.6	3.8	3.8	11.4
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: P652119

CATALOG NUMBER: GALN-SA9A-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3	9773.3
2.5°	8465.3	8734.5	9022.7	9132.6	9473.8	9731.5	9906.0	10281.2	10338.2	10341.9
5°	6801.1	6937.6	7430.4	7661.7	8169.6	8563.9	8984.7	9591.3	9997.0	10027.2
7.5°	4833.6	5212.7	5421.2	6023.9	6649.5	7267.4	7893.0	8598.0	9068.2	9079.5
10°	3889.6	4136.0	4507.5	4958.6	5485.6	6114.9	6948.9	7767.8	8245.5	8363.0
12.5°	3131.4	3563.6	3988.2	4454.4	4856.3	5330.2	6228.6	7320.5	7714.7	7949.8
15°	2411.1	2805.3	3305.8	3851.7	4306.6	4939.7	5963.3	7210.6	7873.9	7953.6
17.5°	1778.0	2130.6	2593.1	3108.7	3791.1	4689.5	6008.8	7767.8	8393.3	8526.0
20°	1277.6	1482.3	1846.2	2445.2	3313.4	4397.6	6054.3	8332.7	9284.2	9511.7
22.5°	1012.2	1095.6	1334.4	1865.2	2778.8	4090.5	6376.5	9413.1	10508.7	10838.6
25°	879.5	925.0	1038.7	1470.9	2441.4	4060.2	6892.1	10709.6	12138.8	12377.7
27.5°	849.2	856.8	955.4	1349.6	2259.4	3859.3	7089.2	11630.9	13154.8	13397.5
30°	894.7	1016.0	1023.6	1141.1	1922.0	3461.2	7191.6	12521.7	14015.4	14193.6
32.5°	773.4	735.5	762.0	883.3	1690.8	3229.9	7384.9	13298.9	14997.3	15122.4
35°	538.3	564.9	625.5	765.8	1478.5	2987.3	7434.2	14155.7	15929.9	16058.8
37.5°	496.6	511.7	561.0	652.0	1300.4	2850.8	7366.0	14781.2	16896.6	17074.7
40°	462.5	481.5	508.0	591.4	1167.6	2699.2	7271.2	15346.1	17488.0	17927.8
42.5°	436.0	451.1	473.9	564.9	1053.9	2547.6	7138.5	16142.2	18018.8	18401.7
45°	405.6	428.4	454.9	549.7	989.4	2445.2	7039.9	16092.9	18325.8	18530.5
47.5°	375.3	413.2	443.5	511.7	970.5	2395.9	7081.6	15907.1	18075.6	17935.3
50°	345.0	394.3	447.3	424.6	925.0	2297.4	7130.9	16161.2	17480.4	17453.9
52.5°	318.5	375.3	417.1	348.8	822.7	2202.6	7608.6	16494.8	17901.2	17548.6
55°	280.6	337.4	333.6	280.6	667.2	2130.6	7983.9	16502.4	17616.8	17749.6
57.5°	254.0	299.5	261.6	235.1	492.8	1781.7	7373.6	13837.2	15080.7	15315.7
60°	235.1	291.9	197.1	185.8	322.3	1285.1	6437.2	10717.2	11987.2	12430.7
62.5°	216.1	276.8	155.4	151.6	223.7	913.7	5292.2	8969.6	10330.5	10933.3
65°	189.6	197.1	125.1	117.5	159.2	492.8	3222.4	6175.5	7722.3	7946.0
67.5°	155.4	151.6	102.3	94.8	106.1	238.8	1421.6	3093.5	4477.2	4852.5
70°	125.1	125.1	87.2	75.9	75.9	109.9	371.6	1232.1	2024.4	2240.5
72.5°	91.0	94.8	68.2	60.6	56.9	53.1	60.6	246.4	530.8	678.6
75°	79.6	83.4	68.2	53.1	41.7	34.1	26.6	22.7	30.4	49.3
77.5°	87.2	87.2	72.0	49.3	37.9	26.6	15.1	7.6	7.6	3.8
80°	109.9	113.7	94.8	64.4	45.5	30.4	18.9	7.6	3.8	3.8
82.5°	117.5	128.9	106.1	79.6	56.9	34.1	18.9	3.8	0.0	0.0
85°	30.4	49.3	83.4	72.0	56.9	34.1	18.9	3.8	0.0	0.0
87.5°	0.0	3.8	11.4	11.4	15.1	15.1	11.4	3.8	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)