

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: P650964

Luminaire Tested: **GALN-SA6C-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650964
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-SA6C-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA 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: 19383.4 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

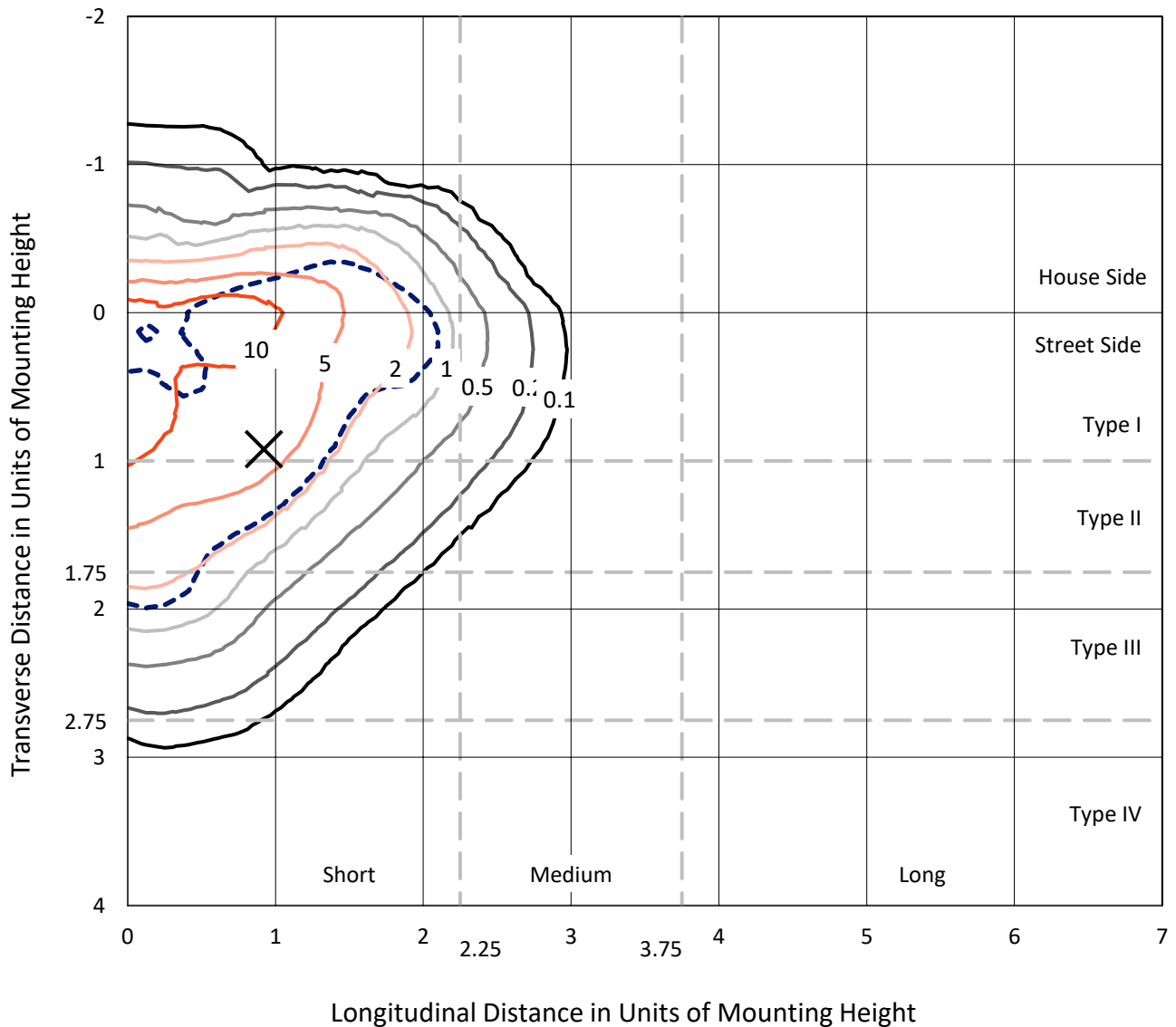
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

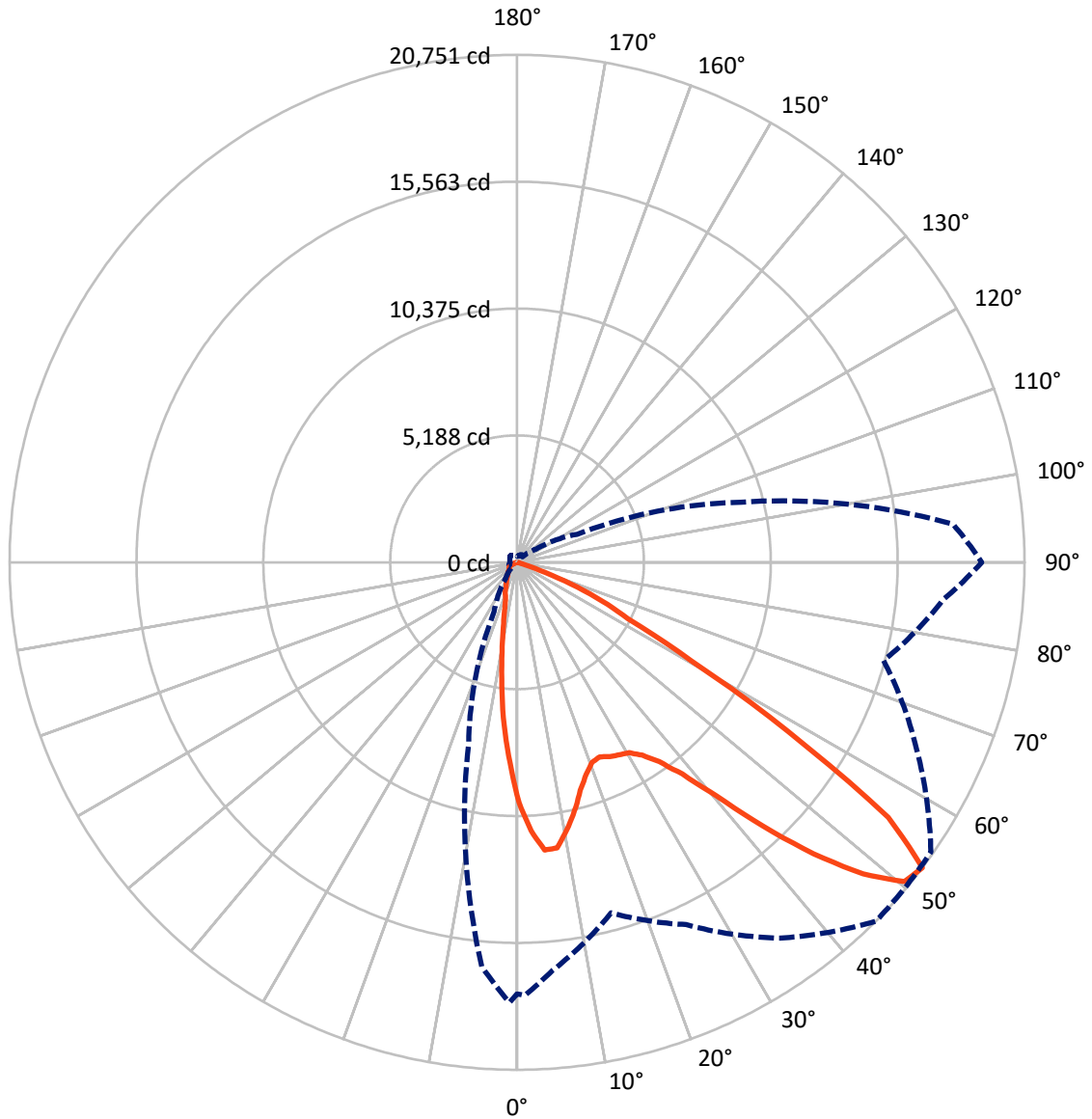
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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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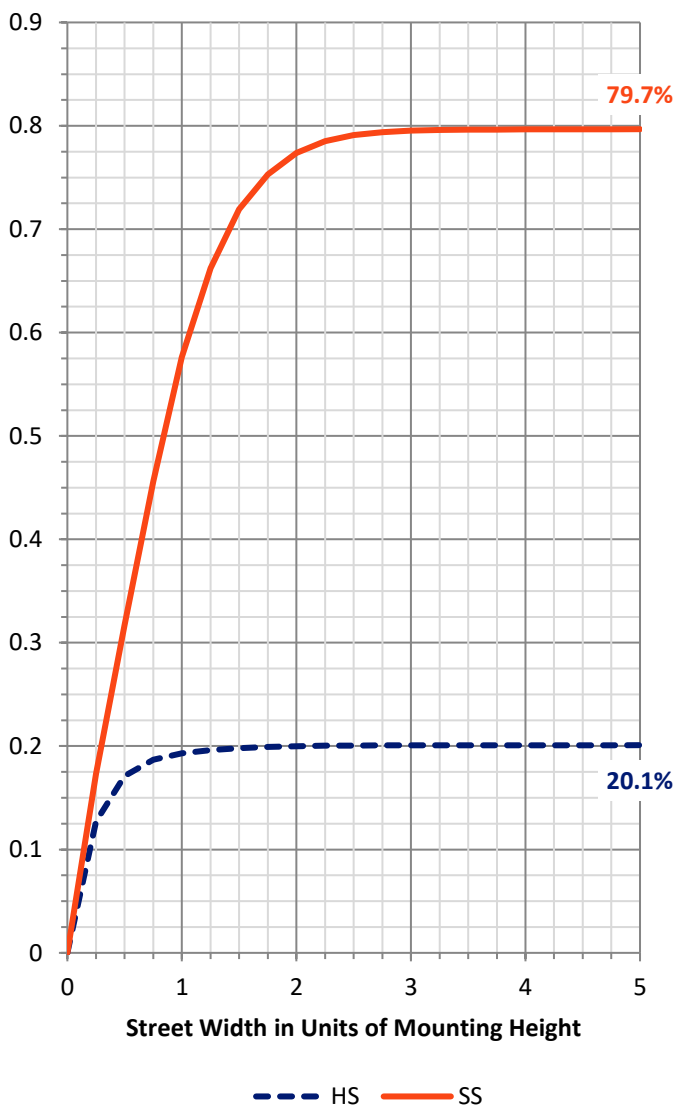
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3933.9	0.0	3933.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	15449.5	0.0	15449.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	19383.4	0.0	19383.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.8	3.7
10°-20°	1414.1	7.3
20°-30°	2152.1	11.1
30°-40°	3216.6	16.6
40°-50°	4580.7	23.6
50°-60°	4924.1	25.4
60°-70°	2182.0	11.3
70°-80°	176.5	0.9
80°-90°	20.6	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°	19383.4	100.0
0°-180°	19383.4	100.0



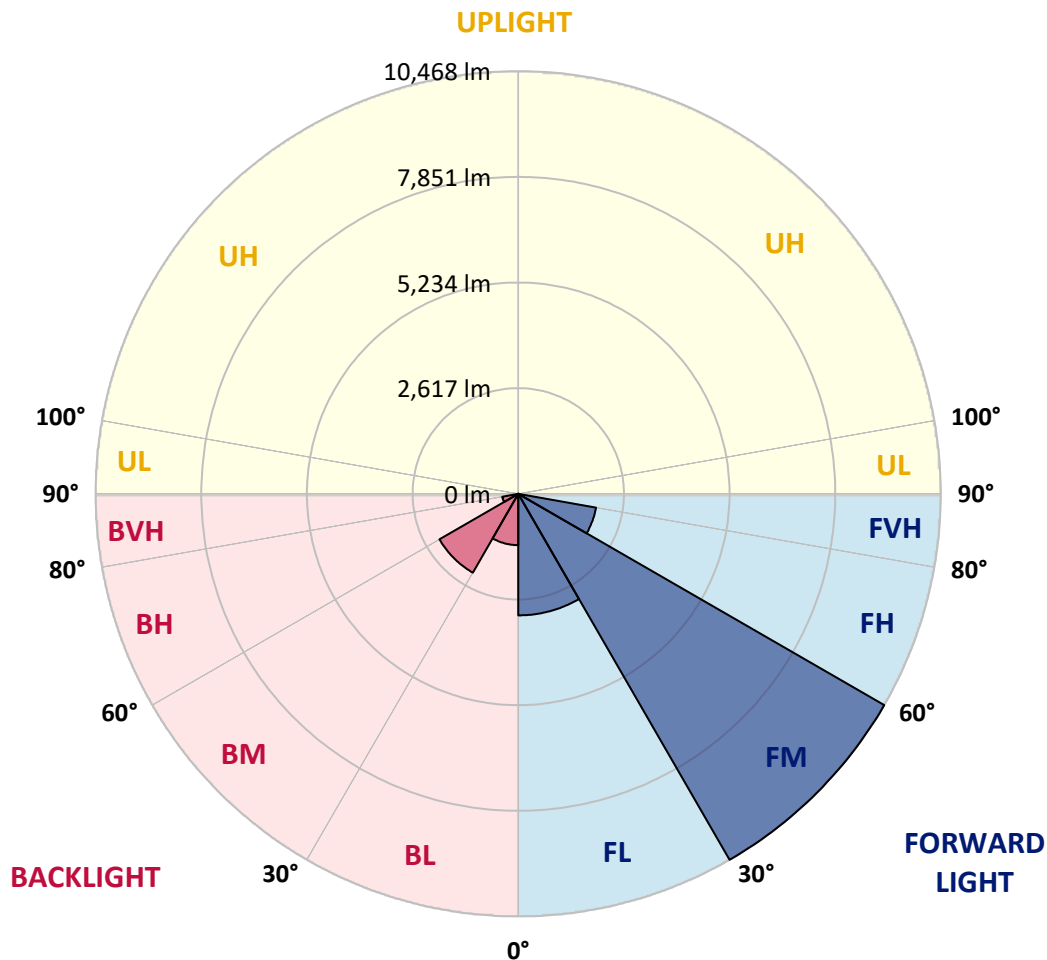
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3010.6	15.5			
FM (30°-60°)	10467.6	54.0			
FH (60°-80°)	1956.0	10.1			G2/5000
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1272.4	6.6	B3/2500		
BM (30°-60°)	2253.7	11.6	B2/2500		
BH (60°-80°)	402.5	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°	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3
2.5°	10400.1	10430.6	10598.4	10808.0	10918.6	11170.2	10994.8	11040.6	10945.3	10609.8	10346.7
5°	10083.7	10079.9	10293.3	10811.9	11303.6	11803.1	11818.3	11551.5	11082.5	10567.8	9832.0
7.5°	9130.6	9279.3	9500.4	10327.6	11238.9	11612.4	11791.7	11479.1	10758.5	10022.7	9225.9
10°	8410.1	8486.3	8859.9	9858.8	10526.0	11025.3	11135.9	10956.7	10403.9	9485.1	8593.1
12.5°	7994.5	8032.6	8471.1	9309.8	10015.0	10384.8	10438.2	10522.1	10125.6	9264.0	8192.8
15°	7998.3	8028.9	8619.7	9321.2	9599.5	9500.4	9675.8	9671.9	9843.5	9222.1	8528.2
17.5°	8574.0	8608.3	9142.0	9489.0	9367.0	9134.4	9123.0	9298.3	9660.5	9744.4	9035.3
20°	9565.2	9645.3	10037.9	10018.9	9332.7	8863.7	8734.1	8867.6	9710.1	10186.6	10057.0
22.5°	10899.5	11010.1	11284.6	10758.5	9489.0	8680.7	8638.8	8898.0	10037.9	11174.0	11216.0
25°	12447.4	12634.2	12767.6	12092.8	10045.6	8997.2	8799.0	9244.9	10480.2	12245.3	12691.4
27.5°	13472.9	13667.3	13636.8	12672.3	10419.1	9081.0	8913.3	9328.9	10865.2	12500.7	13461.5
30°	14273.5	14391.7	14605.1	12984.9	10792.8	9317.4	9031.5	9683.4	10991.0	12943.0	14391.7
32.5°	15207.6	15287.5	15302.8	13537.7	11368.5	9614.8	9397.5	10125.6	11547.6	13366.2	15215.1
35°	16149.1	16267.4	16019.5	14220.1	11723.0	10167.6	10007.5	10892.0	11993.7	13804.6	16122.5
37.5°	17170.9	17231.8	16660.0	14502.2	12230.1	11067.3	10979.6	11719.2	12767.6	14597.6	17128.9
40°	18028.7	18085.9	17342.4	14849.1	12763.8	12325.4	12550.3	13297.6	13819.8	15112.2	17632.2
42.5°	18505.2	18638.7	17571.2	14658.5	13835.0	13751.2	14750.0	15013.1	15039.8	15257.1	18082.0
45°	18634.8	18573.8	17193.7	14814.8	14772.9	16095.8	17003.2	17350.1	16252.1	15523.9	18196.4
47.5°	18036.3	18116.3	16637.2	14677.6	16004.3	17872.3	19046.5	19690.8	17155.6	15291.4	17914.3
50°	17552.1	17449.2	16457.9	14578.5	16336.0	18711.1	20521.9	20666.8	17986.7	15577.3	17605.5
52.5°	17647.5	17712.2	16743.9	14841.5	16343.6	18760.6	20750.7	20651.6	18013.4	15512.5	17494.9
55°	17849.5	17563.5	16621.9	14262.0	15249.4	17376.7	18417.5	18265.0	16625.7	14822.5	17224.3
57.5°	15401.9	15844.2	15283.7	12733.3	12516.0	13091.7	13072.6	13541.5	12401.6	12756.2	15680.3
60°	12500.7	12577.0	12786.6	10892.0	8661.7	8463.4	8189.0	7891.6	8345.2	10907.2	14262.0
62.5°	10994.8	10903.3	11650.5	9908.3	6115.0	5120.0	5074.3	5257.3	6439.1	10403.9	13377.6
65°	7990.7	8105.1	8646.4	7689.5	4590.1	3907.7	3839.1	4380.4	5211.5	8337.7	10209.5
67.5°	4879.8	5100.9	5150.5	4742.6	3114.7	2474.2	2375.1	2866.9	3762.8	5394.5	5985.4
70°	2253.1	2520.0	2771.6	2588.6	1803.3	1017.9	960.7	1204.7	1898.6	3103.3	3175.7
72.5°	682.4	686.3	960.7	1002.6	583.3	228.8	202.1	266.8	644.3	1025.5	1078.9
75°	49.5	53.4	129.6	148.7	110.6	57.2	61.0	72.4	137.3	228.8	171.6
77.5°	3.8	3.8	3.8	19.1	34.3	38.1	49.5	57.2	72.4	83.8	76.3
80°	3.8	0.0	3.8	15.2	26.7	38.1	45.8	53.4	57.2	64.8	57.2
82.5°	0.0	0.0	0.0	11.4	26.7	38.1	42.0	57.2	64.8	76.3	64.8
85°	0.0	0.0	0.0	11.4	26.7	42.0	38.1	19.1	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°	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3
2.5°	10392.5	10243.8	9904.5	9733.0	9328.9	9271.7	8875.2	8810.4	8676.9	8604.5	8429.1
5°	9508.0	9328.9	8776.1	8310.9	7769.6	7392.1	7102.4	6839.3	6686.9	6545.8	6610.6
7.5°	8787.5	8265.2	7651.4	6873.7	6248.5	5844.4	5402.1	5039.9	4826.4	4681.6	4715.9
10°	8032.6	7693.4	6839.3	5966.3	5211.5	4925.6	4578.7	4300.4	3999.2	3739.9	3617.9
12.5°	7796.2	7293.1	6221.8	5333.5	4761.7	4483.4	4086.8	3766.6	3381.6	3065.1	2954.6
15°	7838.2	7354.0	6054.0	5104.8	4430.0	3949.6	3476.9	3080.4	2657.2	2436.1	2321.7
17.5°	8520.6	7681.9	6164.6	4864.6	3968.7	3301.5	2718.2	2214.9	1898.6	1669.8	1620.3
20°	9359.3	8391.0	6400.9	4689.2	3591.2	2626.7	1986.3	1551.6	1288.6	1250.5	1239.0
22.5°	10586.9	9550.0	6908.0	4571.0	3129.9	2047.2	1361.0	1128.5	1056.0	1048.4	1052.2
25°	12302.5	11002.5	7460.8	4471.9	2783.0	1578.3	1113.2	956.9	934.0	922.6	941.7
27.5°	13045.9	11879.3	7754.4	4258.4	2466.6	1422.0	1097.9	949.2	884.5	865.4	876.8
30°	13964.7	12462.6	8215.6	3892.4	2001.5	1170.4	1025.5	1033.2	1002.6	907.4	876.8
32.5°	15184.7	13190.7	8448.2	3633.2	1788.0	968.3	751.0	690.0	770.1	785.3	812.1
35°	15966.1	13930.4	8566.3	3480.6	1677.5	827.3	636.6	579.4	560.4	564.2	579.4
37.5°	17418.7	14929.2	8715.0	3320.6	1593.5	720.6	575.7	522.3	495.6	495.6	510.8
40°	18287.9	15722.2	8917.1	3232.9	1509.7	655.7	522.3	476.5	453.6	453.6	461.3
42.5°	18505.2	16114.8	8848.5	3202.4	1414.4	640.5	476.5	442.2	415.5	411.8	407.9
45°	18894.1	16713.4	8859.9	3168.0	1315.2	583.3	449.9	411.8	373.6	369.8	366.0
47.5°	19321.0	17144.2	8882.8	3034.7	1220.0	487.9	468.9	381.2	335.5	327.8	327.8
50°	18955.0	17487.3	9081.0	2901.2	1097.9	396.4	461.3	358.4	297.4	285.9	289.7
52.5°	19000.8	17891.4	9500.4	2714.4	945.5	316.4	373.6	339.3	270.7	251.6	255.4
55°	18268.9	17464.5	9557.6	2516.2	739.6	244.0	285.9	297.4	228.8	221.1	221.1
57.5°	15726.0	14788.1	8433.0	2039.6	487.9	202.1	205.9	259.3	198.2	190.7	194.4
60°	13457.6	11871.7	6786.0	1345.8	305.0	160.1	148.7	263.1	175.3	171.6	183.0
62.5°	12268.2	9755.9	5146.7	834.9	209.7	122.0	102.9	213.5	152.5	152.5	167.8
65°	8863.7	6553.4	2992.7	438.4	148.7	95.3	76.3	122.0	125.8	129.6	137.3
67.5°	5489.8	3309.2	1261.9	213.5	99.2	64.8	49.5	76.3	83.8	83.8	91.5
70°	2710.6	1319.1	419.3	122.0	76.3	53.4	34.3	42.0	42.0	38.1	42.0
72.5°	838.7	396.4	106.7	76.3	53.4	34.3	19.1	15.2	7.7	0.0	3.8
75°	95.3	76.3	68.6	53.4	34.3	15.2	3.8	0.0	0.0	0.0	0.0
77.5°	57.2	64.8	64.8	53.4	34.3	11.4	0.0	0.0	0.0	0.0	0.0
80°	45.8	49.5	53.4	49.5	30.5	15.2	0.0	0.0	0.0	0.0	0.0
82.5°	57.2	64.8	72.4	64.8	42.0	19.1	7.7	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°	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3
2.5°	8356.7	8272.8	8391.0	8215.6	8211.9	8215.6	8166.1	8120.4	8192.8	8387.2	8406.3
5°	6378.1	6557.3	6614.5	6801.3	6698.3	6545.8	6576.3	6473.4	6725.0	6835.6	6747.8
7.5°	4643.5	4632.1	5017.1	5039.9	5089.5	5093.3	5085.7	4883.6	4677.7	4723.5	4860.7
10°	3602.7	3408.2	3595.0	3576.0	3698.0	3663.6	3713.3	3496.0	3568.4	3568.4	3656.1
12.5°	2935.5	2729.6	2695.3	2645.8	2695.3	2714.4	2733.5	2691.5	2813.5	2870.7	2931.7
15°	2241.7	2127.3	2096.8	2001.5	2016.7	2070.1	2115.9	2135.0	2096.8	2184.5	2192.1
17.5°	1627.8	1624.1	1643.1	1639.3	1624.1	1612.6	1608.8	1559.2	1544.0	1551.6	1582.1
20°	1235.2	1265.7	1330.5	1395.3	1429.6	1387.7	1330.5	1246.6	1212.3	1220.0	1223.7
22.5°	1056.0	1101.8	1189.4	1261.9	1296.2	1220.0	1117.0	1044.6	1029.3	1025.5	1021.7
25°	956.9	1010.3	1075.1	1097.9	1094.1	1048.4	972.1	941.7	934.0	926.4	892.1
27.5°	903.6	922.6	934.0	960.7	972.1	941.7	922.6	876.8	869.3	869.3	846.4
30°	873.0	861.6	876.8	857.8	873.0	850.2	854.0	854.0	834.9	842.5	842.5
32.5°	812.1	815.9	815.9	777.8	789.2	762.5	789.2	812.1	815.9	819.6	850.2
35°	594.8	663.4	697.7	697.7	709.1	690.0	686.3	659.5	625.2	590.9	575.7
37.5°	522.3	549.0	594.8	621.4	640.5	625.2	590.9	549.0	529.9	514.7	499.4
40°	465.1	487.9	518.5	549.0	587.1	568.0	514.7	495.6	472.7	472.7	457.5
42.5°	419.3	430.8	449.9	495.6	537.6	499.4	461.3	446.1	434.6	430.8	427.0
45°	377.4	381.2	400.3	438.4	487.9	449.9	411.8	392.7	396.4	400.3	396.4
47.5°	339.3	346.9	358.4	404.1	434.6	415.5	373.6	362.1	362.1	362.1	366.0
50°	293.6	312.6	335.5	373.6	396.4	385.0	350.7	335.5	327.8	327.8	331.7
52.5°	263.1	278.3	308.8	354.6	385.0	366.0	331.7	308.8	293.6	289.7	297.4
55°	228.8	255.4	305.0	339.3	381.2	362.1	324.0	297.4	270.7	266.8	266.8
57.5°	205.9	247.8	293.6	335.5	369.8	354.6	324.0	289.7	255.4	251.6	251.6
60°	194.4	240.2	285.9	324.0	369.8	346.9	320.3	282.2	244.0	244.0	240.2
62.5°	183.0	225.0	270.7	308.8	354.6	335.5	308.8	270.7	232.5	232.5	225.0
65°	152.5	194.4	225.0	259.3	308.8	289.7	263.1	236.4	205.9	198.2	202.1
67.5°	106.7	133.5	163.9	198.2	228.8	221.1	209.7	190.7	163.9	160.1	156.3
70°	53.4	72.4	99.2	133.5	160.1	152.5	144.9	129.6	114.4	110.6	110.6
72.5°	7.7	22.9	42.0	61.0	83.8	87.7	83.8	80.1	76.3	72.4	76.3
75°	0.0	0.0	0.0	15.2	34.3	42.0	49.5	57.2	57.2	49.5	61.0
77.5°	0.0	0.0	0.0	0.0	3.8	19.1	38.1	49.5	61.0	53.4	72.4
80°	0.0	0.0	0.0	0.0	3.8	22.9	38.1	53.4	61.0	53.4	76.3
82.5°	0.0	0.0	0.0	0.0	3.8	26.7	38.1	49.5	57.2	53.4	68.6
85°	0.0	0.0	0.0	0.0	11.4	22.9	15.2	7.7	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: P650964

CATALOG NUMBER: GALN-SA6C-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3	9828.3
2.5°	8513.0	8783.7	9073.4	9184.0	9527.1	9786.3	9961.7	10339.1	10396.3	10400.1
5°	6839.3	6976.6	7472.2	7704.8	8215.6	8612.1	9035.3	9645.3	10053.2	10083.7
7.5°	4860.7	5242.0	5451.7	6057.8	6686.9	7308.3	7937.4	8646.4	9119.1	9130.6
10°	3911.5	4159.2	4532.9	4986.5	5516.5	6149.3	6988.0	7811.5	8291.9	8410.1
12.5°	3149.0	3583.6	4010.6	4479.5	4883.6	5360.2	6263.7	7361.7	7758.1	7994.5
15°	2424.7	2821.1	3324.4	3873.4	4330.8	4967.5	5996.8	7251.1	7918.3	7998.3
17.5°	1788.0	2142.5	2607.7	3126.2	3812.3	4715.9	6042.6	7811.5	8440.5	8574.0
20°	1284.8	1490.7	1856.6	2459.0	3332.0	4422.3	6088.3	8379.6	9336.4	9565.2
22.5°	1017.9	1101.8	1342.0	1875.7	2794.5	4113.5	6412.4	9466.1	10567.8	10899.5
25°	884.5	930.2	1044.6	1479.2	2455.1	4083.1	6930.8	10769.9	12207.2	12447.4
27.5°	854.0	861.6	960.7	1357.2	2272.1	3881.0	7129.2	11696.3	13228.9	13472.9
30°	899.7	1021.7	1029.3	1147.5	1932.9	3480.6	7232.0	12592.2	14094.3	14273.5
32.5°	777.8	739.6	766.3	888.3	1700.3	3248.1	7426.5	13373.8	15081.7	15207.6
35°	541.4	568.0	629.1	770.1	1486.8	3004.1	7476.1	14235.4	16019.5	16149.1
37.5°	499.4	514.7	564.2	655.7	1307.7	2866.9	7407.4	14864.4	16991.7	17170.9
40°	465.1	484.2	510.8	594.8	1174.2	2714.4	7312.1	15432.4	17586.4	18028.7
42.5°	438.4	453.6	476.5	568.0	1059.8	2561.9	7178.7	16233.1	18120.2	18505.2
45°	407.9	430.8	457.5	552.8	995.0	2459.0	7079.5	16183.4	18428.9	18634.8
47.5°	377.4	415.5	446.1	514.7	976.0	2409.4	7121.5	15996.7	18177.4	18036.3
50°	346.9	396.4	449.9	427.0	930.2	2310.3	7171.0	16252.1	17578.8	17552.1
52.5°	320.3	377.4	419.3	350.7	827.3	2214.9	7651.4	16587.5	18001.9	17647.5
55°	282.2	339.3	335.5	282.2	670.9	2142.5	8028.9	16595.2	17716.1	17849.5
57.5°	255.4	301.2	263.1	236.4	495.6	1791.8	7415.0	13915.1	15165.6	15401.9
60°	236.4	293.6	198.2	186.8	324.0	1292.4	6473.4	10777.6	12054.7	12500.7
62.5°	217.3	278.3	156.3	152.5	225.0	918.8	5322.0	9020.1	10388.7	10994.8
65°	190.7	198.2	125.8	118.2	160.1	495.6	3240.5	6210.4	7765.8	7990.7
67.5°	156.3	152.5	102.9	95.3	106.7	240.2	1429.6	3110.9	4502.4	4879.8
70°	125.8	125.8	87.7	76.3	76.3	110.6	373.6	1239.0	2035.8	2253.1
72.5°	91.5	95.3	68.6	61.0	57.2	53.4	61.0	247.8	533.7	682.4
75°	80.1	83.8	68.6	53.4	42.0	34.3	26.7	22.9	30.5	49.5
77.5°	87.7	87.7	72.4	49.5	38.1	26.7	15.2	7.7	7.7	3.8
80°	110.6	114.4	95.3	64.8	45.8	30.5	19.1	7.7	3.8	3.8
82.5°	118.2	129.6	106.7	80.1	57.2	34.3	19.1	3.8	0.0	0.0
85°	30.5	49.5	83.8	72.4	57.2	34.3	19.1	3.8	0.0	0.0
87.5°	0.0	3.8	11.4	11.4	15.2	15.2	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)