

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: P530289

Luminaire Tested: **GALN-SA5C-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530289
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-SA5C-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 17726 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

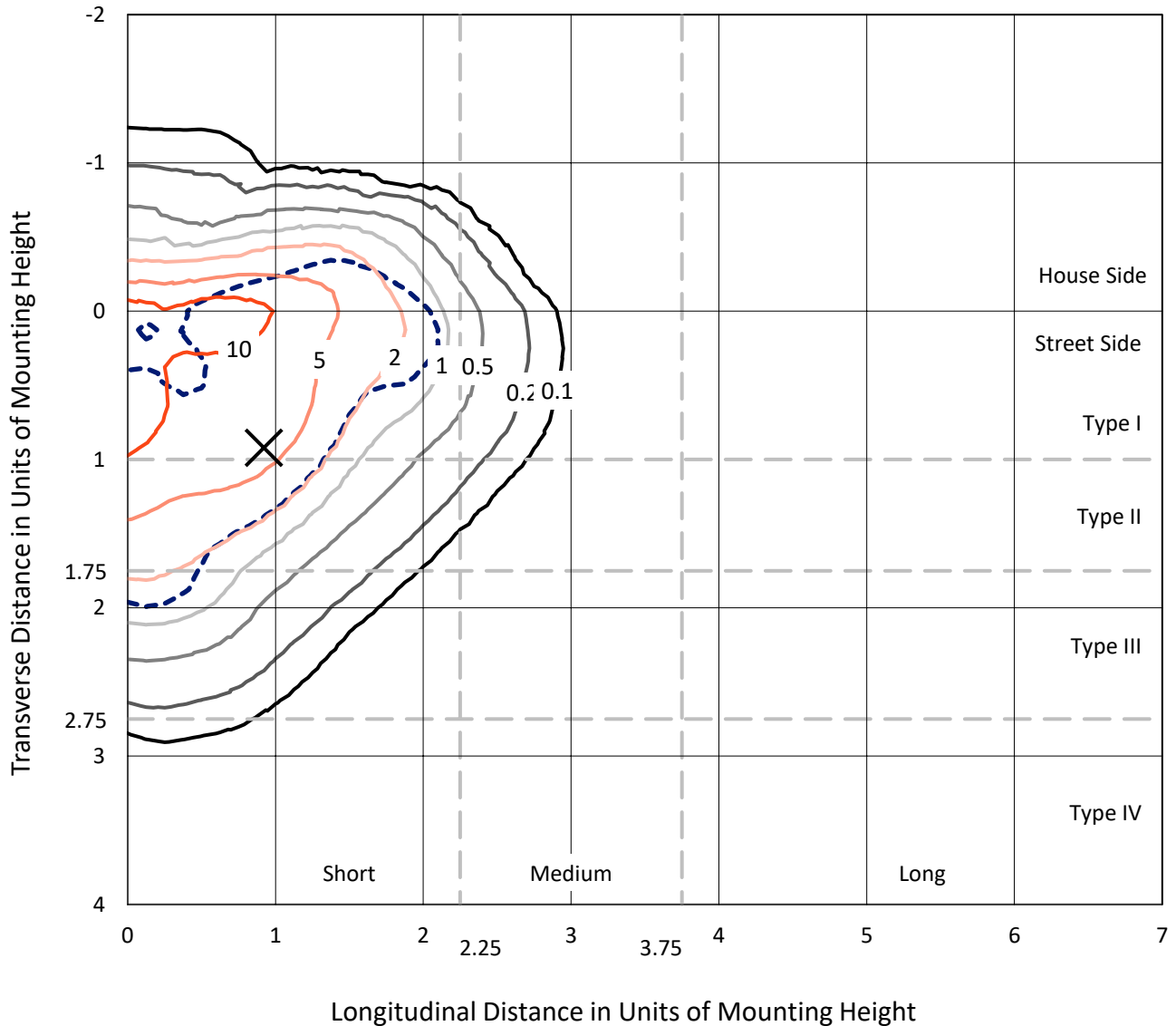
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

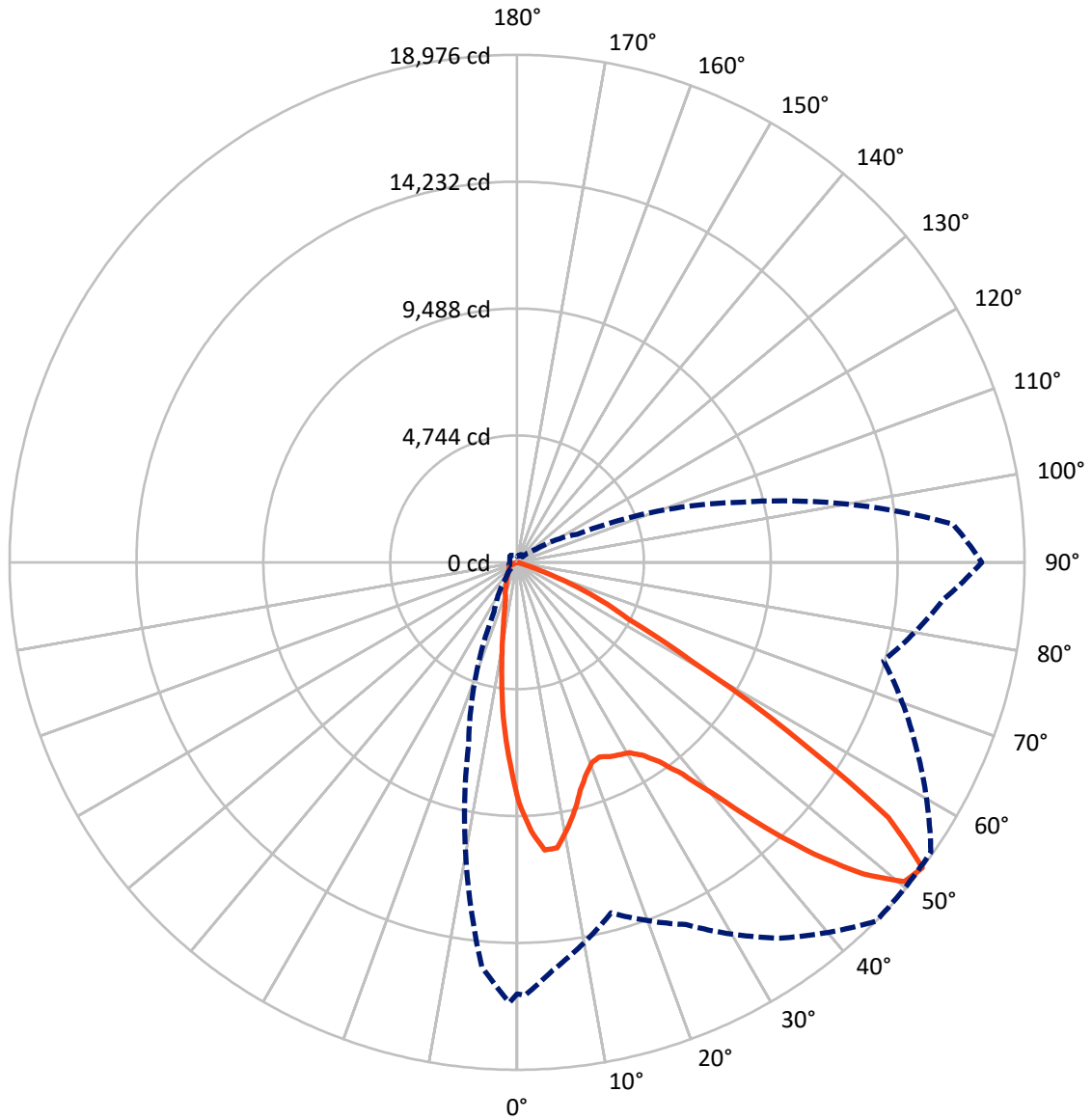
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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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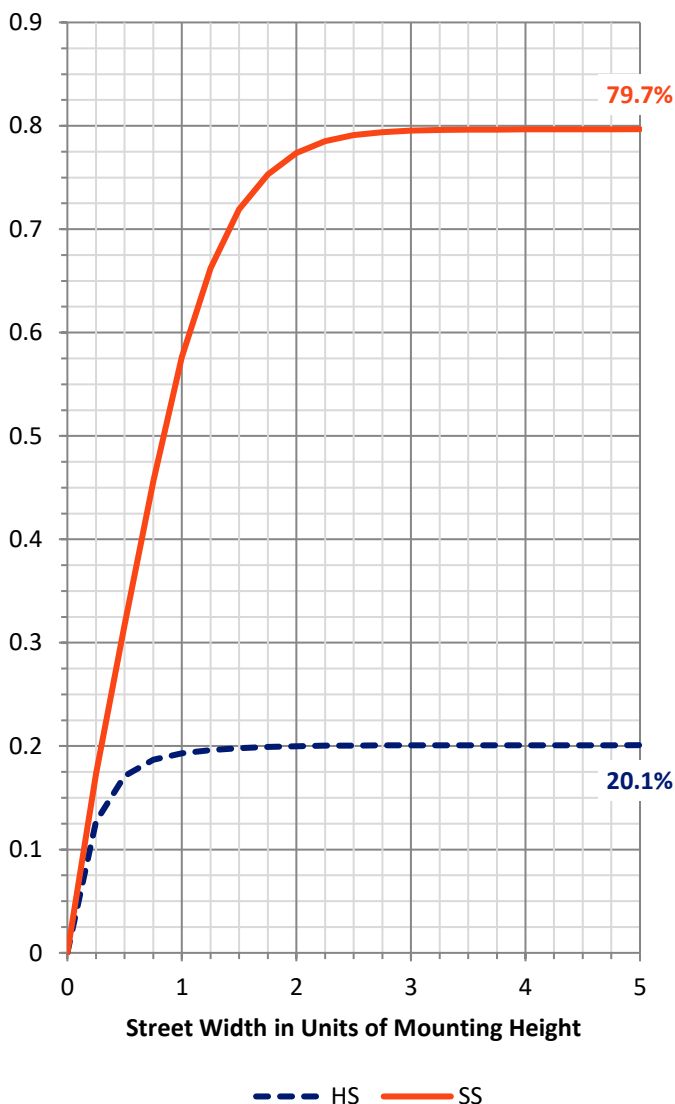
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3597.5	0.0	3597.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14128.5	0.0	14128.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	17726.0	0.0	17726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.5	3.7
10°-20°	1293.2	7.3
20°-30°	1968.1	11.1
30°-40°	2941.5	16.6
40°-50°	4189.0	23.6
50°-60°	4503.0	25.4
60°-70°	1995.4	11.3
70°-80°	161.4	0.9
80°-90°	18.8	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°	17726.0	100.0
0°-180°	17726.0	100.0

Coefficient of Utilization



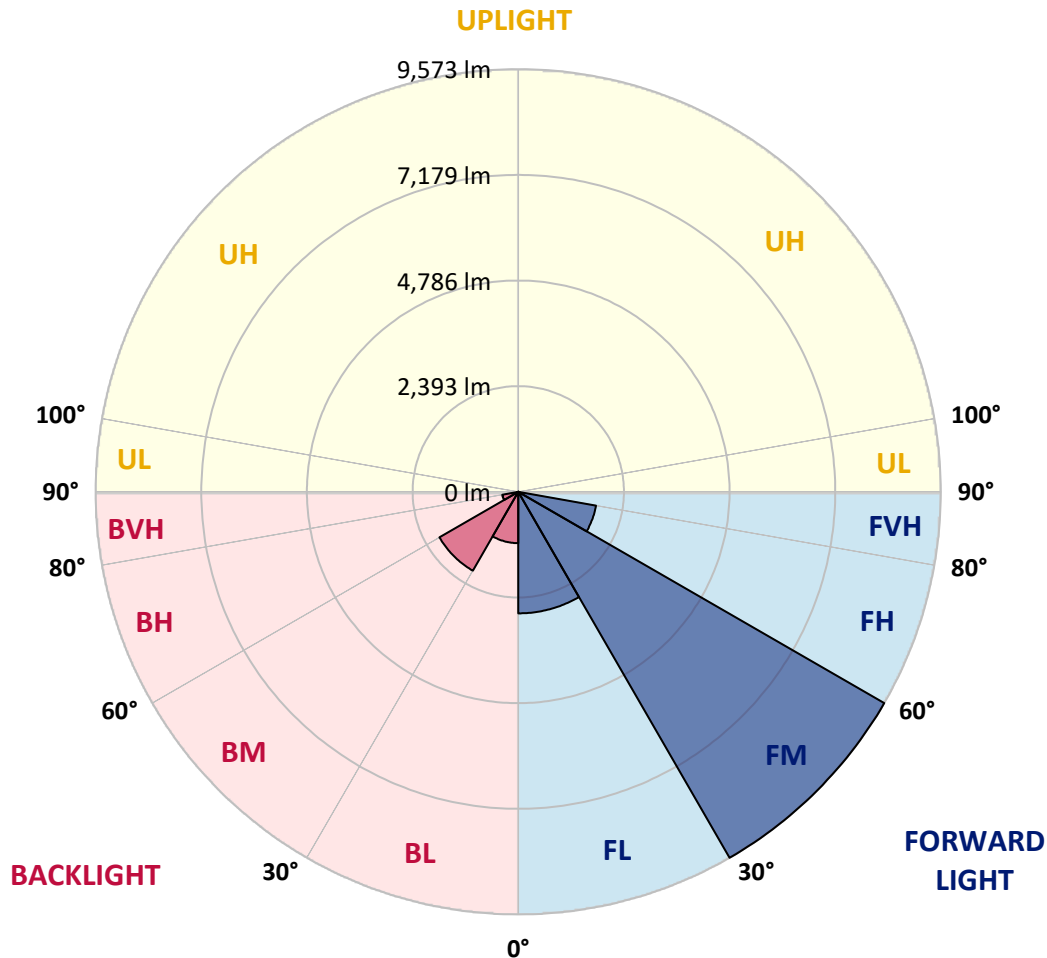
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2753.2	15.5			
FM	(30°-60°)	9572.6	54.0			
FH	(60°-80°)	1788.8	10.1			G1/1800
FVH	(80°-90°)	13.9	0.1			G1/100
BL	(0°-30°)	1163.6	6.6	B3/2500		
BM	(30°-60°)	2061.0	11.6	B2/2500		
BH	(60°-80°)	368.1	2.1	B1/500		G1/500
BVH	(80°-90°)	4.9	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9
2.5°	9510.9	9538.8	9692.2	9883.9	9985.0	10215.1	10054.7	10096.6	10009.4	9702.6	9462.1
5°	9221.5	9218.0	9413.2	9887.4	10337.1	10793.9	10807.8	10563.8	10134.9	9664.3	8991.4
7.5°	8349.9	8485.9	8688.1	9444.6	10277.9	10619.5	10783.4	10497.5	9838.6	9165.7	8437.1
10°	7691.0	7760.7	8102.4	9015.8	9625.9	10082.6	10183.7	10019.9	9514.4	8674.1	7858.3
12.5°	7311.0	7345.8	7746.8	8513.8	9158.7	9496.9	9545.7	9622.4	9259.8	8471.9	7492.2
15°	7314.4	7342.3	7882.7	8524.2	8778.7	8688.1	8848.5	8845.0	9001.9	8433.6	7799.0
17.5°	7840.9	7872.3	8360.4	8677.6	8566.1	8353.4	8342.9	8503.3	8834.5	8911.2	8262.7
20°	8747.3	8820.6	9179.7	9162.2	8534.7	8105.9	7987.3	8109.3	8879.8	9315.6	9197.1
22.5°	9967.6	10068.7	10319.7	9838.6	8677.6	7938.5	7900.2	8137.2	9179.7	10218.6	10257.0
25°	11383.1	11553.9	11675.9	11058.8	9186.6	8227.9	8046.6	8454.5	9584.1	11198.3	11606.2
27.5°	12320.9	12498.7	12470.8	11588.8	9528.3	8304.6	8151.2	8531.2	9936.2	11431.9	12310.4
30°	13053.0	13161.1	13356.3	11874.6	9870.0	8520.7	8259.3	8855.4	10051.3	11836.3	13161.1
32.5°	13907.2	13980.4	13994.4	12380.2	10396.4	8792.7	8593.9	9259.8	10560.3	12223.3	13914.2
35°	14768.3	14876.4	14649.8	13004.2	10720.6	9298.2	9151.8	9960.6	10968.2	12624.2	14743.9
37.5°	15702.7	15758.5	15235.5	13262.2	11184.3	10121.0	10040.8	10717.2	11675.9	13349.4	15664.3
40°	16487.1	16539.4	15859.6	13579.5	11672.4	11271.5	11477.2	12160.5	12638.2	13820.0	16124.5
42.5°	16922.9	17044.9	16068.8	13405.2	12652.1	12575.4	13488.8	13729.4	13753.8	13952.5	16535.9
45°	17041.5	16985.7	15723.6	13548.1	13509.8	14719.5	15549.3	15866.5	14862.5	14196.6	16640.5
47.5°	16494.1	16567.3	15214.6	13422.6	14635.9	16344.2	17418.0	18007.2	15688.7	13983.9	16382.5
50°	16051.3	15957.2	15050.7	13331.9	14939.2	17111.2	18767.2	18899.7	16448.8	14245.4	16100.1
52.5°	16138.5	16197.8	15312.2	13572.5	14946.1	17156.5	18976.4	18885.8	16473.2	14186.1	15999.0
55°	16323.3	16061.8	15200.6	13042.6	13945.5	15891.0	16842.7	16703.3	15204.1	13555.1	15751.5
57.5°	14085.0	14489.4	13976.9	11644.5	11445.8	11972.3	11954.8	12383.6	11341.2	11665.5	14339.5
60°	11431.9	11501.6	11693.3	9960.6	7921.1	7739.8	7488.8	7216.8	7631.7	9974.6	13042.6
62.5°	10054.7	9971.1	10654.4	9061.1	5592.2	4682.2	4640.4	4807.7	5888.5	9514.4	12233.7
65°	7307.5	7412.1	7907.1	7032.0	4197.6	3573.5	3510.8	4005.9	4765.9	7624.7	9336.5
67.5°	4462.6	4664.8	4710.1	4337.1	2848.4	2262.7	2172.0	2621.8	3441.1	4933.2	5473.6
70°	2060.5	2304.5	2534.6	2367.3	1649.1	930.9	878.6	1101.7	1736.2	2837.9	2904.2
72.5°	624.1	627.5	878.6	916.9	533.4	209.2	184.8	244.0	589.2	937.8	986.6
75°	45.3	48.8	118.5	136.0	101.1	52.3	55.8	66.2	125.5	209.2	156.9
77.5°	3.5	3.5	3.5	17.4	31.4	34.9	45.3	52.3	66.2	76.7	69.7
80°	3.5	0.0	3.5	13.9	24.4	34.9	41.8	48.8	52.3	59.3	52.3
82.5°	0.0	0.0	0.0	10.5	24.4	34.9	38.4	52.3	59.3	69.7	59.3
85°	0.0	0.0	0.0	10.5	24.4	38.4	34.9	17.4	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°	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9
2.5°	9503.9	9367.9	9057.6	8900.7	8531.2	8478.9	8116.3	8057.0	7935.0	7868.8	7708.4
5°	8695.0	8531.2	8025.7	7600.3	7105.3	6760.1	6495.1	6254.6	6115.1	5986.1	6045.4
7.5°	8036.1	7558.5	6997.2	6286.0	5714.2	5344.6	4940.2	4609.0	4413.8	4281.3	4312.7
10°	7345.8	7035.5	6254.6	5456.2	4765.9	4504.4	4187.2	3932.6	3657.2	3420.1	3308.6
12.5°	7129.7	6669.5	5689.8	4877.5	4354.5	4100.0	3737.4	3444.6	3092.4	2803.1	2702.0
15°	7168.0	6725.2	5536.4	4668.3	4051.2	3611.9	3179.6	2817.0	2430.0	2227.8	2123.2
17.5°	7792.1	7025.1	5637.5	4448.6	3629.3	3019.2	2485.8	2025.6	1736.2	1527.0	1481.7
20°	8559.1	7673.5	5853.6	4288.3	3284.2	2402.1	1816.4	1419.0	1178.4	1143.5	1133.1
22.5°	9681.7	8733.4	6317.3	4180.2	2862.3	1872.2	1244.6	1032.0	965.7	958.8	962.2
25°	11250.6	10061.7	6822.9	4089.5	2545.1	1443.4	1018.0	875.1	854.2	843.7	861.1
27.5°	11930.4	10863.6	7091.3	3894.3	2255.7	1300.4	1004.1	868.1	808.8	791.4	801.9
30°	12770.6	11397.0	7513.2	3559.6	1830.4	1070.3	937.8	944.8	916.9	829.8	801.9
32.5°	13886.3	12062.9	7725.8	3322.5	1635.1	885.5	686.8	631.0	704.3	718.2	742.6
35°	14601.0	12739.3	7833.9	3183.1	1534.0	756.5	582.2	529.9	512.5	516.0	529.9
37.5°	15929.3	13652.7	7969.9	3036.6	1457.3	658.9	526.4	477.6	453.2	453.2	467.2
40°	16724.2	14377.9	8154.7	2956.5	1380.6	599.7	477.6	435.8	414.9	414.9	421.9
42.5°	16922.9	14737.0	8091.9	2928.6	1293.4	585.7	435.8	404.4	380.0	376.5	373.0
45°	17278.5	15284.3	8102.4	2897.2	1202.8	533.4	411.4	376.5	341.7	338.2	334.7
47.5°	17669.0	15678.3	8123.3	2775.2	1115.6	446.3	428.8	348.6	306.8	299.8	299.8
50°	17334.3	15992.1	8304.6	2653.1	1004.1	362.6	421.9	327.7	271.9	261.5	265.0
52.5°	17376.2	16361.6	8688.1	2482.3	864.6	289.4	341.7	310.3	247.5	230.1	233.6
55°	16706.8	15971.1	8740.4	2301.0	676.4	223.1	261.5	271.9	209.2	202.2	202.2
57.5°	14381.3	13523.7	7711.9	1865.2	446.3	184.8	188.3	237.1	181.3	174.3	177.8
60°	12306.9	10856.6	6205.8	1230.7	278.9	146.4	136.0	240.6	160.4	156.9	167.3
62.5°	11219.2	8921.7	4706.6	763.5	191.8	111.6	94.1	195.2	139.5	139.5	153.4
65°	8105.9	5993.1	2736.8	400.9	136.0	87.2	69.7	111.6	115.1	118.5	125.5
67.5°	5020.4	3026.2	1154.0	195.2	90.6	59.3	45.3	69.7	76.7	76.7	83.7
70°	2478.8	1206.3	383.5	111.6	69.7	48.8	31.4	38.4	38.4	34.9	38.4
72.5°	767.0	362.6	97.6	69.7	48.8	31.4	17.4	13.9	7.0	0.0	3.5
75°	87.2	69.7	62.8	48.8	31.4	13.9	3.5	0.0	0.0	0.0	0.0
77.5°	52.3	59.3	59.3	48.8	31.4	10.5	0.0	0.0	0.0	0.0	0.0
80°	41.8	45.3	48.8	45.3	27.9	13.9	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	59.3	66.2	59.3	38.4	17.4	7.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.5	3.5	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°	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9
2.5°	7642.2	7565.5	7673.5	7513.2	7509.7	7513.2	7467.8	7426.0	7492.2	7670.1	7687.5
5°	5832.7	5996.6	6048.9	6219.7	6125.6	5986.1	6014.0	5919.9	6150.0	6251.1	6170.9
7.5°	4246.4	4236.0	4588.1	4609.0	4654.3	4657.8	4650.8	4466.1	4277.8	4319.6	4445.1
10°	3294.6	3116.8	3287.7	3270.2	3381.8	3350.4	3395.7	3197.0	3263.3	3263.3	3343.4
12.5°	2684.5	2496.3	2464.9	2419.6	2464.9	2482.3	2499.7	2461.4	2573.0	2625.2	2681.0
15°	2050.0	1945.4	1917.5	1830.4	1844.3	1893.1	1934.9	1952.4	1917.5	1997.7	2004.7
17.5°	1488.7	1485.2	1502.6	1499.1	1485.2	1474.7	1471.3	1425.9	1412.0	1419.0	1446.9
20°	1129.6	1157.5	1216.7	1276.0	1307.4	1269.0	1216.7	1140.0	1108.7	1115.6	1119.1
22.5°	965.7	1007.6	1087.8	1154.0	1185.4	1115.6	1021.5	955.3	941.3	937.8	934.4
25°	875.1	923.9	983.2	1004.1	1000.6	958.8	889.0	861.1	854.2	847.2	815.8
27.5°	826.3	843.7	854.2	878.6	889.0	861.1	843.7	801.9	794.9	794.9	774.0
30°	798.4	787.9	801.9	784.4	798.4	777.5	781.0	781.0	763.5	770.5	770.5
32.5°	742.6	746.1	746.1	711.2	721.7	697.3	721.7	742.6	746.1	749.6	777.5
35°	543.9	606.6	638.0	638.0	648.5	631.0	627.5	603.1	571.8	540.4	526.4
37.5°	477.6	502.0	543.9	568.3	585.7	571.8	540.4	502.0	484.6	470.7	456.7
40°	425.3	446.3	474.1	502.0	536.9	519.5	470.7	453.2	432.3	432.3	418.4
42.5°	383.5	394.0	411.4	453.2	491.6	456.7	421.9	407.9	397.4	394.0	390.5
45°	345.2	348.6	366.1	400.9	446.3	411.4	376.5	359.1	362.6	366.1	362.6
47.5°	310.3	317.3	327.7	369.6	397.4	380.0	341.7	331.2	331.2	331.2	334.7
50°	268.5	285.9	306.8	341.7	362.6	352.1	320.7	306.8	299.8	299.8	303.3
52.5°	240.6	254.5	282.4	324.2	352.1	334.7	303.3	282.4	268.5	265.0	271.9
55°	209.2	233.6	278.9	310.3	348.6	331.2	296.3	271.9	247.5	244.0	244.0
57.5°	188.3	226.6	268.5	306.8	338.2	324.2	296.3	265.0	233.6	230.1	230.1
60°	177.8	219.6	261.5	296.3	338.2	317.3	292.9	258.0	223.1	223.1	219.6
62.5°	167.3	205.7	247.5	282.4	324.2	306.8	282.4	247.5	212.7	212.7	205.7
65°	139.5	177.8	205.7	237.1	282.4	265.0	240.6	216.2	188.3	181.3	184.8
67.5°	97.6	122.0	149.9	181.3	209.2	202.2	191.8	174.3	149.9	146.4	142.9
70°	48.8	66.2	90.6	122.0	146.4	139.5	132.5	118.5	104.6	101.1	101.1
72.5°	7.0	20.9	38.4	55.8	76.7	80.2	76.7	73.2	69.7	66.2	69.7
75°	0.0	0.0	0.0	13.9	31.4	38.4	45.3	52.3	52.3	45.3	55.8
77.5°	0.0	0.0	0.0	0.0	3.5	17.4	34.9	45.3	55.8	48.8	66.2
80°	0.0	0.0	0.0	0.0	3.5	20.9	34.9	48.8	55.8	48.8	69.7
82.5°	0.0	0.0	0.0	0.0	3.5	24.4	34.9	45.3	52.3	48.8	62.8
85°	0.0	0.0	0.0	0.0	10.5	20.9	13.9	7.0	3.5	3.5	10.5
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: P530289
 CATALOG NUMBER: GALN-SA5C-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9	8987.9
2.5°	7785.1	8032.6	8297.6	8398.7	8712.5	8949.6	9109.9	9455.1	9507.4	9510.9
5°	6254.6	6380.1	6833.3	7046.0	7513.2	7875.7	8262.7	8820.6	9193.6	9221.5
7.5°	4445.1	4793.8	4985.5	5539.9	6115.1	6683.4	7258.7	7907.1	8339.4	8349.9
10°	3577.0	3803.6	4145.3	4560.2	5044.8	5623.5	6390.5	7143.6	7582.9	7691.0
12.5°	2879.8	3277.2	3667.7	4096.5	4466.1	4901.9	5728.1	6732.2	7094.8	7311.0
15°	2217.3	2579.9	3040.1	3542.2	3960.5	4542.8	5484.1	6631.1	7241.2	7314.4
17.5°	1635.1	1959.3	2384.7	2858.8	3486.4	4312.7	5525.9	7143.6	7718.9	7840.9
20°	1174.9	1363.2	1697.9	2248.7	3047.1	4044.2	5567.8	7663.1	8538.2	8747.3
22.5°	930.9	1007.6	1227.2	1715.3	2555.5	3761.8	5864.1	8656.7	9664.3	9967.6
25°	808.8	850.7	955.3	1352.7	2245.2	3733.9	6338.3	9849.0	11163.4	11383.1
27.5°	781.0	787.9	878.6	1241.2	2077.9	3549.1	6519.5	10696.2	12097.8	12320.9
30°	822.8	934.4	941.3	1049.4	1767.6	3183.1	6613.7	11515.5	12889.2	13053.0
32.5°	711.2	676.4	700.8	812.3	1554.9	2970.4	6791.5	12230.2	13792.1	13907.2
35°	495.1	519.5	575.3	704.3	1359.7	2747.3	6836.8	13018.2	14649.8	14768.3
37.5°	456.7	470.7	516.0	599.7	1195.8	2621.8	6774.1	13593.4	15538.8	15702.7
40°	425.3	442.8	467.2	543.9	1073.8	2482.3	6686.9	14112.9	16082.7	16487.1
42.5°	400.9	414.9	435.8	519.5	969.2	2342.9	6564.9	14845.0	16570.8	16922.9
45°	373.0	394.0	418.4	505.5	909.9	2248.7	6474.2	14799.7	16853.2	17041.5
47.5°	345.2	380.0	407.9	470.7	892.5	2203.4	6512.6	14628.9	16623.1	16494.1
50°	317.3	362.6	411.4	390.5	850.7	2112.8	6557.9	14862.5	16075.7	16051.3
52.5°	292.9	345.2	383.5	320.7	756.5	2025.6	6997.2	15169.3	16462.7	16138.5
55°	258.0	310.3	306.8	258.0	613.6	1959.3	7342.3	15176.2	16201.2	16323.3
57.5°	233.6	275.4	240.6	216.2	453.2	1638.6	6781.0	12725.3	13868.8	14085.0
60°	216.2	268.5	181.3	170.8	296.3	1181.9	5919.9	9856.0	11024.0	11431.9
62.5°	198.7	254.5	142.9	139.5	205.7	840.2	4867.0	8248.8	9500.4	10054.7
65°	174.3	181.3	115.1	108.1	146.4	453.2	2963.4	5679.3	7101.8	7307.5
67.5°	142.9	139.5	94.1	87.2	97.6	219.6	1307.4	2844.9	4117.4	4462.6
70°	115.1	115.1	80.2	69.7	69.7	101.1	341.7	1133.1	1861.7	2060.5
72.5°	83.7	87.2	62.8	55.8	52.3	48.8	55.8	226.6	488.1	624.1
75°	73.2	76.7	62.8	48.8	38.4	31.4	24.4	20.9	27.9	45.3
77.5°	80.2	80.2	66.2	45.3	34.9	24.4	13.9	7.0	7.0	3.5
80°	101.1	104.6	87.2	59.3	41.8	27.9	17.4	7.0	3.5	3.5
82.5°	108.1	118.5	97.6	73.2	52.3	31.4	17.4	3.5	0.0	0.0
85°	27.9	45.3	76.7	66.2	52.3	31.4	17.4	3.5	0.0	0.0
87.5°	0.0	3.5	10.5	10.5	13.9	13.9	10.5	3.5	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)