

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: P652009

Luminaire Tested: **GALN-SA7A-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652009
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-SA7A-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 14809.2 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

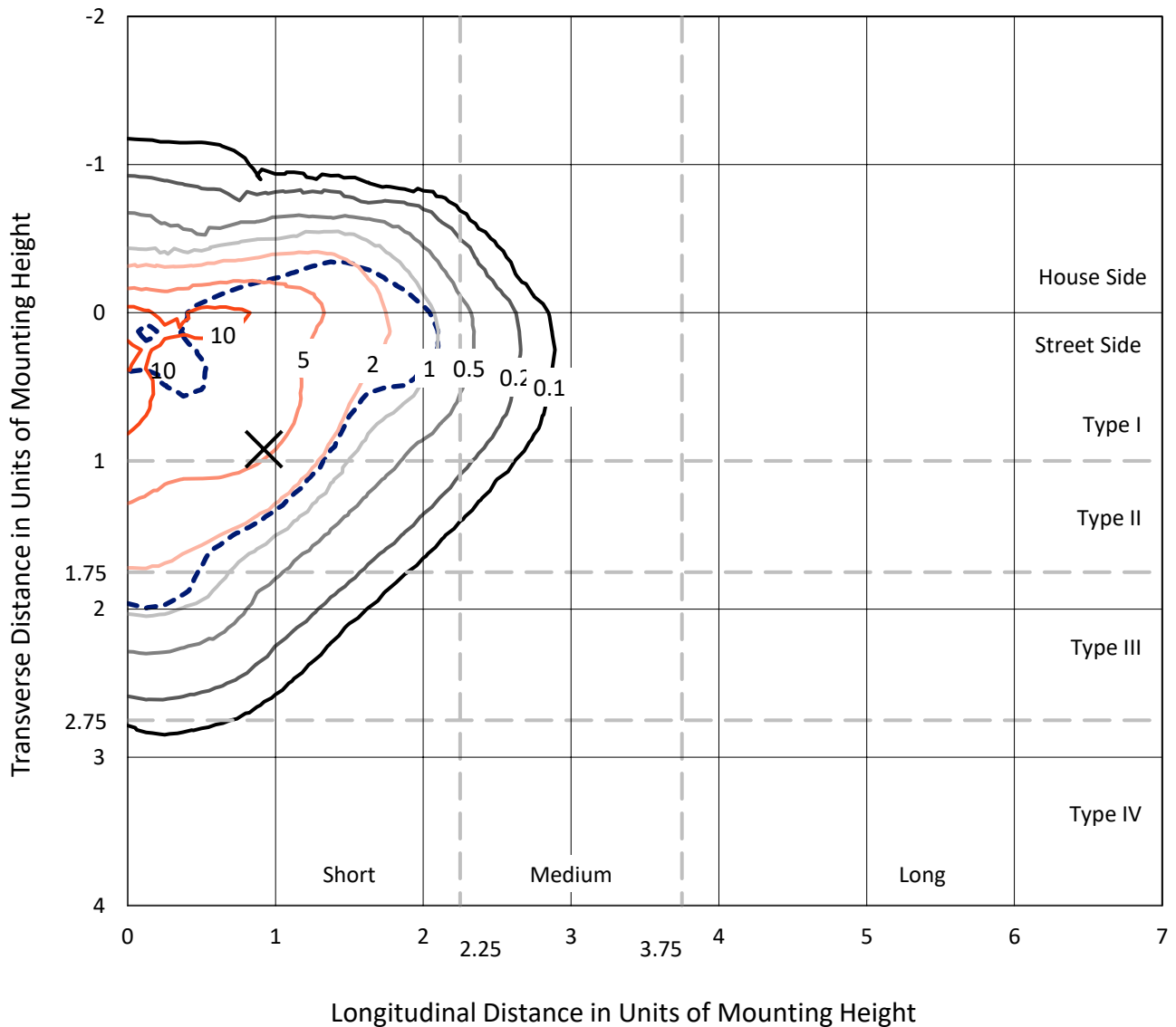
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652009
 CATALOG NUMBER: GALN-SA7A-840-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

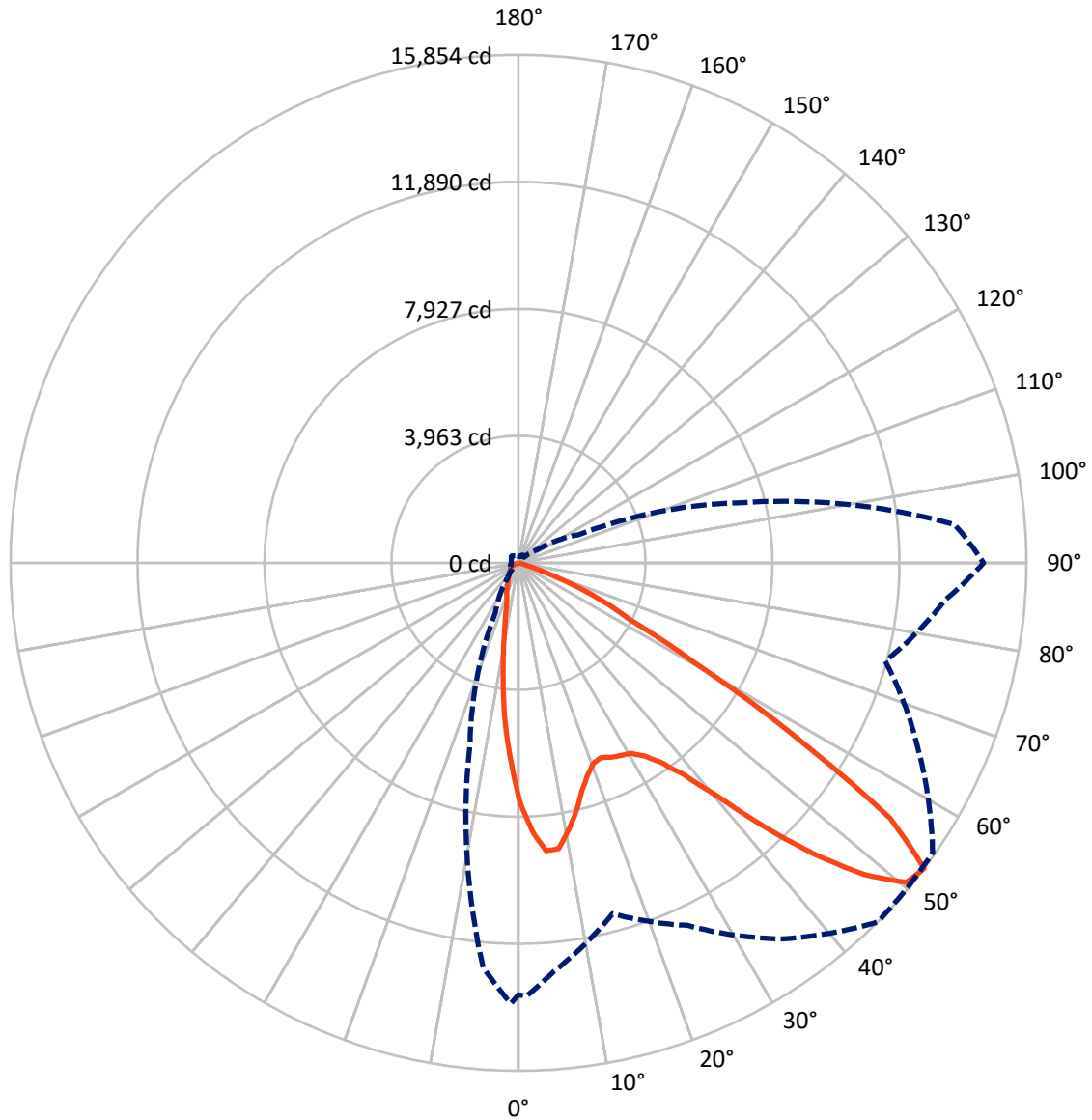
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Short - N/A

REPORT NUMBER: P652009
CATALOG NUMBER: GALN-SA7A-840-U-SLL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P652009
 CATALOG NUMBER: GALN-SA7A-840-U-SLL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3005.5	0.0	3005.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11803.6	0.0	11803.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	14809.2	0.0	14809.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.6	3.7
10°-20°	1080.4	7.3
20°-30°	1644.2	11.1
30°-40°	2457.5	16.6
40°-50°	3499.7	23.6
50°-60°	3762.1	25.4
60°-70°	1667.1	11.3
70°-80°	134.9	0.9
80°-90°	15.7	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°	14809.2	100.0
0°-180°	14809.2	100.0

Coefficient of Utilization



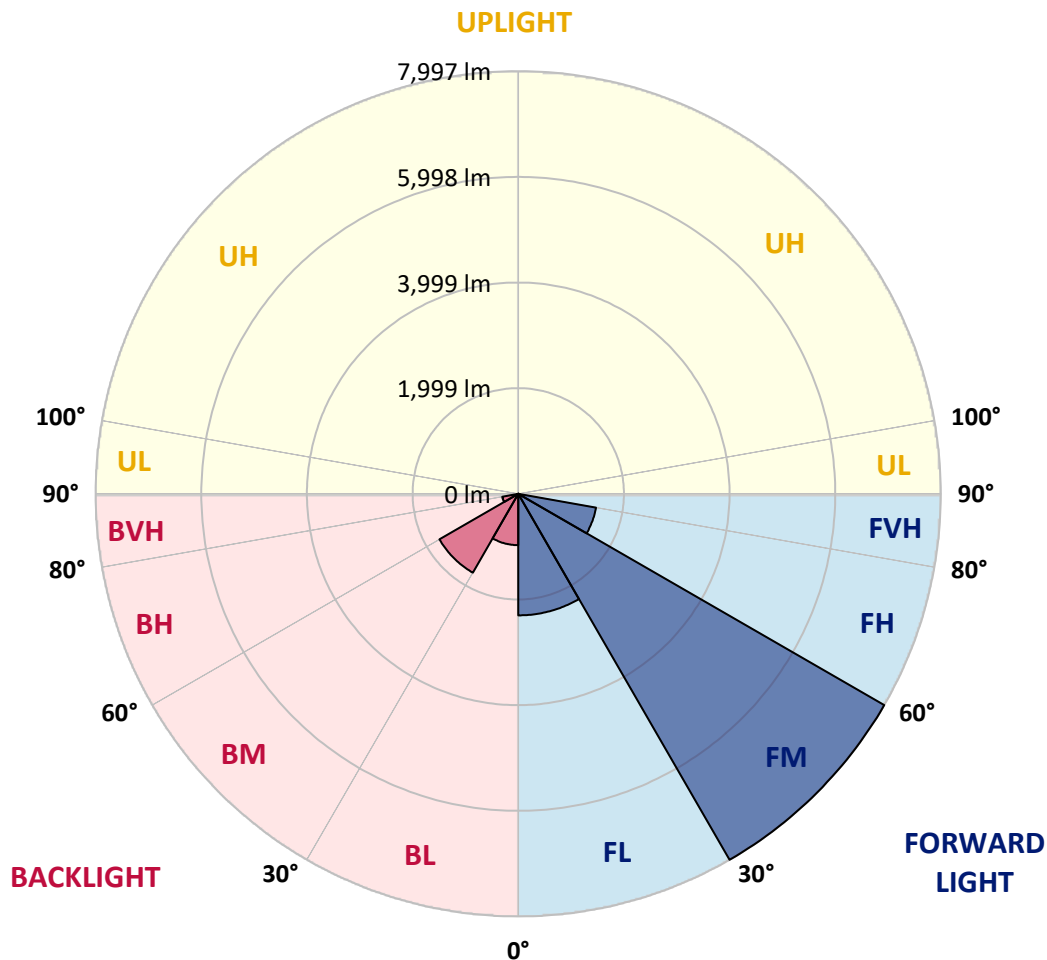
REPORT NUMBER: P652009
 CATALOG NUMBER: GALN-SA7A-840-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2300.2	15.5			
FM (30°-60°)	7997.4	54.0			
FH (60°-80°)	1494.4	10.1			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	972.1	6.6	B2/1000		
BM (30°-60°)	1721.8	11.6	B2/2500		
BH (60°-80°)	307.5	2.1	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





REPORT NUMBER: P652009

CATALOG NUMBER: GALN-SA7A-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0
2.5°	7945.9	7969.1	8097.3	8257.5	8342.0	8534.2	8400.2	8435.1	8362.4	8106.1	7905.1
5°	7704.1	7701.2	7864.3	8260.4	8636.1	9017.7	9029.4	8825.5	8467.2	8074.0	7511.8
7.5°	6975.9	7089.5	7258.4	7890.5	8586.6	8872.0	9009.0	8770.1	8219.6	7657.5	7048.8
10°	6425.4	6483.7	6769.1	7532.2	8042.0	8423.5	8508.0	8371.1	7948.8	7246.8	6565.2
12.5°	6107.9	6137.0	6472.0	7112.8	7651.7	7934.2	7975.0	8039.0	7736.1	7077.9	6259.4
15°	6110.9	6134.2	6585.6	7121.6	7334.2	7258.4	7392.4	7389.5	7520.6	7045.8	6515.7
17.5°	6550.6	6576.9	6984.7	7249.7	7156.5	6978.8	6970.1	7104.1	7380.8	7444.9	6903.1
20°	7308.0	7369.1	7669.2	7654.6	7130.3	6772.0	6673.0	6774.9	7418.6	7782.7	7683.7
22.5°	8327.4	8411.9	8621.6	8219.6	7249.7	6632.2	6600.2	6798.2	7669.2	8537.2	8569.2
25°	9509.9	9652.7	9754.6	9239.1	7675.0	6874.0	6722.5	7063.3	8007.0	9355.6	9696.4
27.5°	10293.5	10442.0	10418.7	9681.8	7960.4	6938.1	6809.9	7127.4	8301.2	9550.7	10284.8
30°	10905.2	10995.4	11158.6	9920.7	8245.8	7118.6	6900.2	7398.3	8397.3	9888.6	10995.4
32.5°	11618.8	11679.9	11691.6	10343.0	8685.7	7345.8	7179.8	7736.1	8822.6	10211.9	11624.6
35°	12338.2	12428.5	12239.2	10864.4	8956.6	7768.1	7645.9	8321.6	9163.4	10546.9	12317.8
37.5°	13118.8	13165.4	12728.5	11079.9	9343.9	8455.6	8388.6	8953.6	9754.6	11152.8	13086.7
40°	13774.2	13817.9	13249.9	11344.9	9751.7	9416.8	9588.6	10159.5	10558.5	11545.9	13471.2
42.5°	14138.2	14240.1	13424.6	11199.3	10570.2	10506.1	11269.2	11470.2	11490.6	11656.6	13814.9
45°	14237.3	14190.7	13136.3	11318.8	11286.7	12297.4	12990.7	13255.7	12416.9	11860.5	13902.3
47.5°	13780.0	13841.2	12711.0	11213.9	12227.5	13654.7	14551.8	15044.1	13107.2	11682.8	13686.8
50°	13410.1	13331.4	12574.1	11138.1	12480.9	14295.5	15679.0	15789.8	13742.1	11901.3	13450.9
52.5°	13482.9	13532.4	12792.5	11339.1	12486.7	14333.4	15853.9	15778.1	13762.5	11851.8	13366.3
55°	13637.2	13418.8	12699.4	10896.4	11650.8	13276.1	14071.3	13954.7	12702.3	11324.6	13159.5
57.5°	11767.3	12105.2	11677.0	9728.4	9562.4	10002.2	9987.6	10345.9	9475.0	9745.9	11980.0
60°	9550.7	9609.0	9769.2	8321.6	6617.7	6466.2	6256.5	6029.3	6375.9	8333.2	10896.4
62.5°	8400.2	8330.4	8901.2	7570.1	4672.0	3911.7	3876.8	4016.6	4919.5	7948.8	10220.7
65°	6105.0	6192.4	6606.0	5874.9	3506.9	2985.5	2933.1	3346.7	3981.6	6370.1	7800.2
67.5°	3728.2	3897.2	3935.0	3623.4	2379.7	1890.3	1814.6	2190.4	2874.9	4121.5	4572.9
70°	1721.4	1925.3	2117.6	1977.7	1377.7	777.7	734.0	920.4	1450.6	2370.9	2426.3
72.5°	521.3	524.3	734.0	766.1	445.6	174.8	154.4	203.9	492.2	783.5	824.3
75°	37.8	40.8	99.1	113.6	84.4	43.7	46.6	55.3	104.9	174.8	131.1
77.5°	2.9	2.9	2.9	14.5	26.2	29.1	37.8	43.7	55.3	64.1	58.3
80°	2.9	0.0	2.9	11.7	20.4	29.1	35.0	40.8	43.7	49.5	43.7
82.5°	0.0	0.0	0.0	8.7	20.4	29.1	32.0	43.7	49.5	58.3	49.5
85°	0.0	0.0	0.0	8.7	20.4	32.0	29.1	14.5	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



REPORT NUMBER: P652009

CATALOG NUMBER: GALN-SA7A-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0
2.5°	7940.0	7826.4	7567.1	7436.1	7127.4	7083.7	6780.7	6731.3	6629.3	6573.9	6440.0
5°	7264.3	7127.4	6705.0	6349.7	5936.1	5647.7	5426.4	5225.4	5108.9	5001.1	5050.6
7.5°	6713.8	6314.7	5845.8	5251.6	4773.9	4465.2	4127.3	3850.6	3687.4	3576.8	3603.0
10°	6137.0	5877.8	5225.4	4558.4	3981.6	3763.2	3498.1	3285.5	3055.4	2857.4	2764.1
12.5°	5956.5	5572.0	4753.5	4074.9	3638.0	3425.3	3122.4	2877.7	2583.6	2341.8	2257.3
15°	5988.5	5618.6	4625.3	3900.1	3384.5	3017.6	2656.4	2353.5	2030.2	1861.2	1773.8
17.5°	6509.8	5869.1	4709.9	3716.6	3032.1	2522.4	2076.8	1692.3	1450.6	1275.8	1237.9
20°	7150.7	6410.9	4890.4	3582.7	2743.8	2006.9	1517.5	1185.5	984.5	955.4	946.6
22.5°	8088.6	7296.3	5277.8	3492.3	2391.3	1564.1	1039.8	862.2	806.9	801.0	803.9
25°	9399.3	8406.0	5700.1	3416.6	2126.3	1205.8	850.5	731.1	713.6	704.8	719.5
27.5°	9967.3	9076.0	5924.4	3253.5	1884.5	1086.4	838.9	725.3	675.7	661.2	669.9
30°	10669.2	9521.6	6276.9	2973.9	1529.2	894.2	783.5	789.4	766.1	693.2	669.9
32.5°	11601.3	10078.0	6454.5	2775.8	1366.0	739.8	573.8	527.2	588.4	600.1	620.4
35°	12198.4	10643.0	6544.8	2659.3	1281.6	632.1	486.4	442.7	428.2	431.1	442.7
37.5°	13308.2	11406.1	6658.4	2537.0	1217.5	550.5	439.8	399.1	378.6	378.6	390.3
40°	13972.2	12012.0	6812.8	2469.9	1153.4	501.0	399.1	364.1	346.6	346.6	352.5
42.5°	14138.2	12312.0	6760.4	2446.6	1080.6	489.3	364.1	337.9	317.5	314.5	311.7
45°	14435.3	12769.2	6769.1	2420.5	1004.9	445.6	343.7	314.5	285.4	282.5	279.6
47.5°	14761.6	13098.4	6786.6	2318.5	932.1	372.8	358.3	291.2	256.3	250.5	250.5
50°	14481.9	13360.5	6938.1	2216.5	838.9	302.9	352.5	273.8	227.2	218.5	221.4
52.5°	14516.9	13669.3	7258.4	2073.8	722.3	241.8	285.4	259.2	206.8	192.3	195.1
55°	13957.7	13343.1	7302.2	1922.4	565.1	186.4	218.5	227.2	174.8	169.0	169.0
57.5°	12014.9	11298.3	6442.9	1558.3	372.8	154.4	157.3	198.1	151.5	145.7	148.5
60°	10281.8	9070.2	5184.6	1028.2	233.0	122.4	113.6	201.0	134.0	131.1	139.8
62.5°	9373.0	7453.6	3932.2	637.9	160.2	93.2	78.6	163.1	116.5	116.5	128.2
65°	6772.0	5006.9	2286.4	335.0	113.6	72.8	58.3	93.2	96.1	99.1	104.9
67.5°	4194.3	2528.2	964.1	163.1	75.7	49.5	37.8	58.3	64.1	64.1	69.9
70°	2071.0	1007.8	320.4	93.2	58.3	40.8	26.2	32.0	32.0	29.1	32.0
72.5°	640.8	302.9	81.6	58.3	40.8	26.2	14.5	11.7	5.8	0.0	2.9
75°	72.8	58.3	52.4	40.8	26.2	11.7	2.9	0.0	0.0	0.0	0.0
77.5°	43.7	49.5	49.5	40.8	26.2	8.7	0.0	0.0	0.0	0.0	0.0
80°	35.0	37.8	40.8	37.8	23.3	11.7	0.0	0.0	0.0	0.0	0.0
82.5°	43.7	49.5	55.3	49.5	32.0	14.5	5.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	8.7	2.9	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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CATALOG NUMBER: GALN-SA7A-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0
2.5°	6384.6	6320.5	6410.9	6276.9	6273.9	6276.9	6239.0	6204.1	6259.4	6407.9	6422.5
5°	4872.9	5009.8	5053.6	5196.3	5117.7	5001.1	5024.4	4945.8	5138.0	5222.4	5155.5
7.5°	3547.7	3538.9	3833.1	3850.6	3888.4	3891.4	3885.5	3731.2	3573.9	3608.8	3713.7
10°	2752.5	2604.0	2746.7	2732.1	2825.3	2799.1	2836.9	2670.9	2726.3	2726.3	2793.3
12.5°	2242.8	2085.5	2059.3	2021.4	2059.3	2073.8	2088.4	2056.3	2149.6	2193.2	2239.8
15°	1712.7	1625.3	1602.0	1529.2	1540.8	1581.6	1616.6	1631.1	1602.0	1669.0	1674.8
17.5°	1243.8	1240.8	1255.4	1252.5	1240.8	1232.1	1229.1	1191.3	1179.7	1185.5	1208.8
20°	943.7	967.0	1016.5	1066.1	1092.3	1060.2	1016.5	952.4	926.3	932.1	934.9
22.5°	806.9	841.8	908.8	964.1	990.3	932.1	853.4	798.1	786.4	783.5	780.6
25°	731.1	771.9	821.4	838.9	836.0	801.0	742.8	719.5	713.6	707.8	681.5
27.5°	690.3	704.8	713.6	734.0	742.8	719.5	704.8	669.9	664.1	664.1	646.6
30°	667.0	658.3	669.9	655.4	667.0	649.5	652.4	652.4	637.9	643.7	643.7
32.5°	620.4	623.3	623.3	594.2	602.9	582.6	602.9	620.4	623.3	626.2	649.5
35°	454.4	506.8	533.0	533.0	541.8	527.2	524.3	503.9	477.7	451.4	439.8
37.5°	399.1	419.4	454.4	474.7	489.3	477.7	451.4	419.4	404.9	393.3	381.6
40°	355.3	372.8	396.1	419.4	448.6	434.0	393.3	378.6	361.2	361.2	349.5
42.5°	320.4	329.2	343.7	378.6	410.7	381.6	352.5	340.8	332.0	329.2	326.2
45°	288.4	291.2	305.9	335.0	372.8	343.7	314.5	300.0	302.9	305.9	302.9
47.5°	259.2	265.1	273.8	308.7	332.0	317.5	285.4	276.7	276.7	276.7	279.6
50°	224.3	238.8	256.3	285.4	302.9	294.2	267.9	256.3	250.5	250.5	253.4
52.5°	201.0	212.6	235.9	270.9	294.2	279.6	253.4	235.9	224.3	221.4	227.2
55°	174.8	195.1	233.0	259.2	291.2	276.7	247.6	227.2	206.8	203.9	203.9
57.5°	157.3	189.3	224.3	256.3	282.5	270.9	247.6	221.4	195.1	192.3	192.3
60°	148.5	183.5	218.5	247.6	282.5	265.1	244.6	215.5	186.4	186.4	183.5
62.5°	139.8	171.8	206.8	235.9	270.9	256.3	235.9	206.8	177.7	177.7	171.8
65°	116.5	148.5	171.8	198.1	235.9	221.4	201.0	180.6	157.3	151.5	154.4
67.5°	81.6	101.9	125.2	151.5	174.8	169.0	160.2	145.7	125.2	122.4	119.4
70°	40.8	55.3	75.7	101.9	122.4	116.5	110.7	99.1	87.4	84.4	84.4
72.5°	5.8	17.5	32.0	46.6	64.1	67.0	64.1	61.1	58.3	55.3	58.3
75°	0.0	0.0	0.0	11.7	26.2	32.0	37.8	43.7	43.7	37.8	46.6
77.5°	0.0	0.0	0.0	0.0	2.9	14.5	29.1	37.8	46.6	40.8	55.3
80°	0.0	0.0	0.0	0.0	2.9	17.5	29.1	40.8	46.6	40.8	58.3
82.5°	0.0	0.0	0.0	0.0	2.9	20.4	29.1	37.8	43.7	40.8	52.4
85°	0.0	0.0	0.0	0.0	8.7	17.5	11.7	5.8	2.9	2.9	8.7
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: P652009

CATALOG NUMBER: GALN-SA7A-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0	7509.0
2.5°	6504.0	6710.8	6932.2	7016.7	7278.9	7476.9	7610.9	7899.3	7942.9	7945.9
5°	5225.4	5330.3	5708.9	5886.6	6276.9	6579.8	6903.1	7369.1	7680.8	7704.1
7.5°	3713.7	4004.9	4165.1	4628.3	5108.9	5583.7	6064.2	6606.0	6967.2	6975.9
10°	2988.4	3177.7	3463.2	3809.8	4214.7	4698.2	5339.0	5968.2	6335.1	6425.4
12.5°	2405.8	2738.0	3064.2	3422.4	3731.2	4095.2	4785.5	5624.4	5927.4	6107.9
15°	1852.5	2155.4	2539.9	2959.3	3308.8	3795.3	4581.7	5539.9	6049.6	6110.9
17.5°	1366.0	1636.9	1992.2	2388.4	2912.7	3603.0	4616.6	5968.2	6448.7	6550.6
20°	981.6	1138.9	1418.5	1878.7	2545.7	3378.7	4651.6	6402.1	7133.2	7308.0
22.5°	777.7	841.8	1025.3	1433.1	2135.0	3142.8	4899.2	7232.3	8074.0	8327.4
25°	675.7	710.7	798.1	1130.1	1875.8	3119.5	5295.3	8228.3	9326.4	9509.9
27.5°	652.4	658.3	734.0	1037.0	1736.0	2965.1	5446.7	8936.1	10107.1	10293.5
30°	687.4	780.6	786.4	876.7	1476.7	2659.3	5525.4	9620.6	10768.2	10905.2
32.5°	594.2	565.1	585.4	678.7	1299.1	2481.6	5674.0	10217.7	11522.6	11618.8
35°	413.6	434.0	480.6	588.4	1135.9	2295.2	5711.8	10876.0	12239.2	12338.2
37.5°	381.6	393.3	431.1	501.0	999.0	2190.4	5659.3	11356.6	12981.9	13118.8
40°	355.3	369.9	390.3	454.4	897.1	2073.8	5586.6	11790.6	13436.3	13774.2
42.5°	335.0	346.6	364.1	434.0	809.7	1957.3	5484.6	12402.3	13844.0	14138.2
45°	311.7	329.2	349.5	422.4	760.2	1878.7	5408.9	12364.4	14080.0	14237.3
47.5°	288.4	317.5	340.8	393.3	745.6	1840.9	5440.9	12221.7	13887.8	13780.0
50°	265.1	302.9	343.7	326.2	710.7	1765.1	5478.8	12416.9	13430.4	13410.1
52.5°	244.6	288.4	320.4	267.9	632.1	1692.3	5845.8	12673.1	13753.8	13482.9
55°	215.5	259.2	256.3	215.5	512.7	1636.9	6134.2	12679.0	13535.3	13637.2
57.5°	195.1	230.1	201.0	180.6	378.6	1369.0	5665.2	10631.3	11586.7	11767.3
60°	180.6	224.3	151.5	142.7	247.6	987.4	4945.8	8234.2	9210.0	9550.7
62.5°	166.0	212.6	119.4	116.5	171.8	702.0	4066.2	6891.4	7937.1	8400.2
65°	145.7	151.5	96.1	90.3	122.4	378.6	2475.8	4744.8	5933.2	6105.0
67.5°	119.4	116.5	78.6	72.8	81.6	183.5	1092.3	2376.8	3439.9	3728.2
70°	96.1	96.1	67.0	58.3	58.3	84.4	285.4	946.6	1555.3	1721.4
72.5°	69.9	72.8	52.4	46.6	43.7	40.8	46.6	189.3	407.8	521.3
75°	61.1	64.1	52.4	40.8	32.0	26.2	20.4	17.5	23.3	37.8
77.5°	67.0	67.0	55.3	37.8	29.1	20.4	11.7	5.8	5.8	2.9
80°	84.4	87.4	72.8	49.5	35.0	23.3	14.5	5.8	2.9	2.9
82.5°	90.3	99.1	81.6	61.1	43.7	26.2	14.5	2.9	0.0	0.0
85°	23.3	37.8	64.1	55.3	43.7	26.2	14.5	2.9	0.0	0.0
87.5°	0.0	2.9	8.7	8.7	11.7	11.7	8.7	2.9	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)