

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: P651408

Luminaire Tested: **GALN-SA5D-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18011.7 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

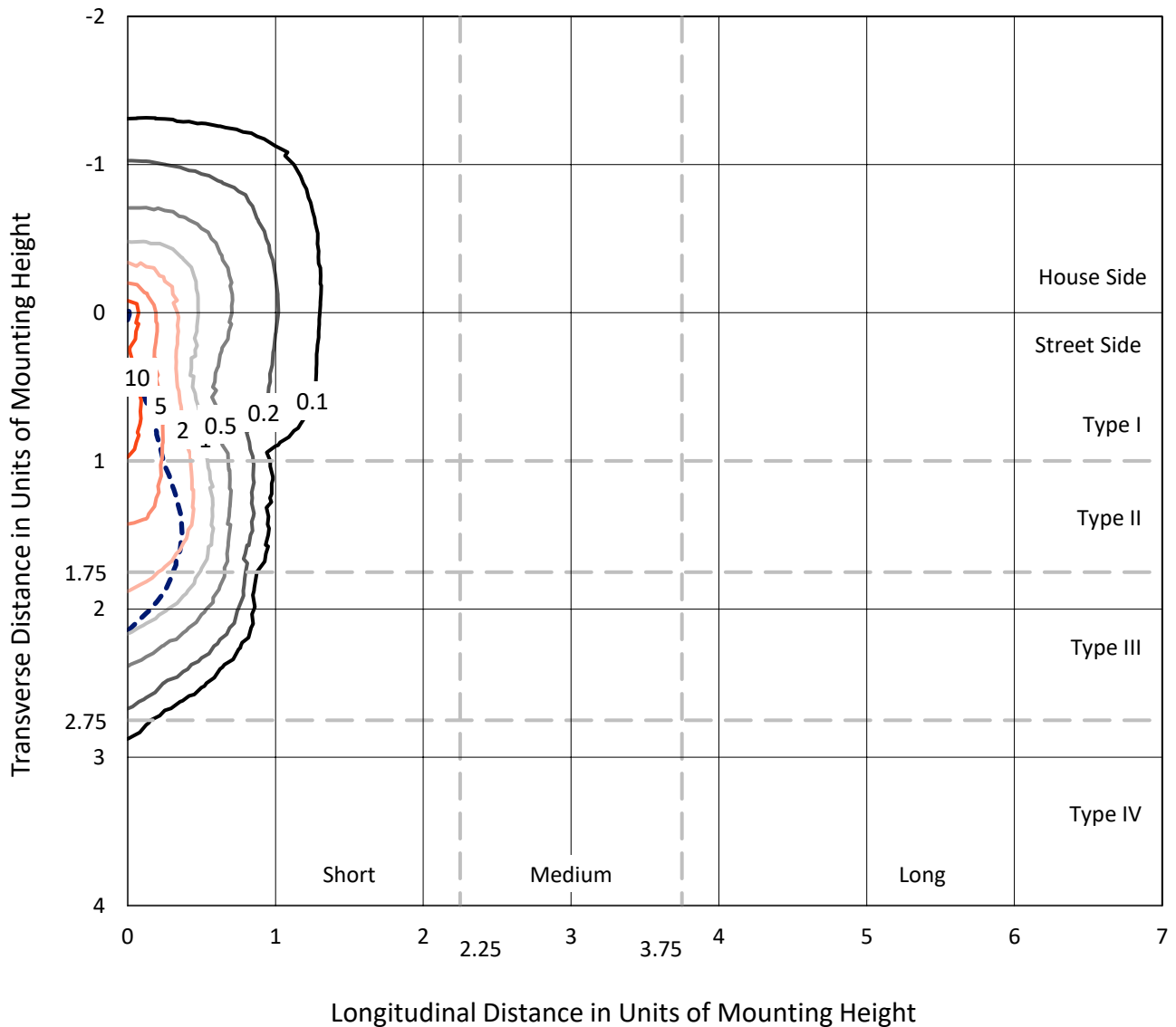
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

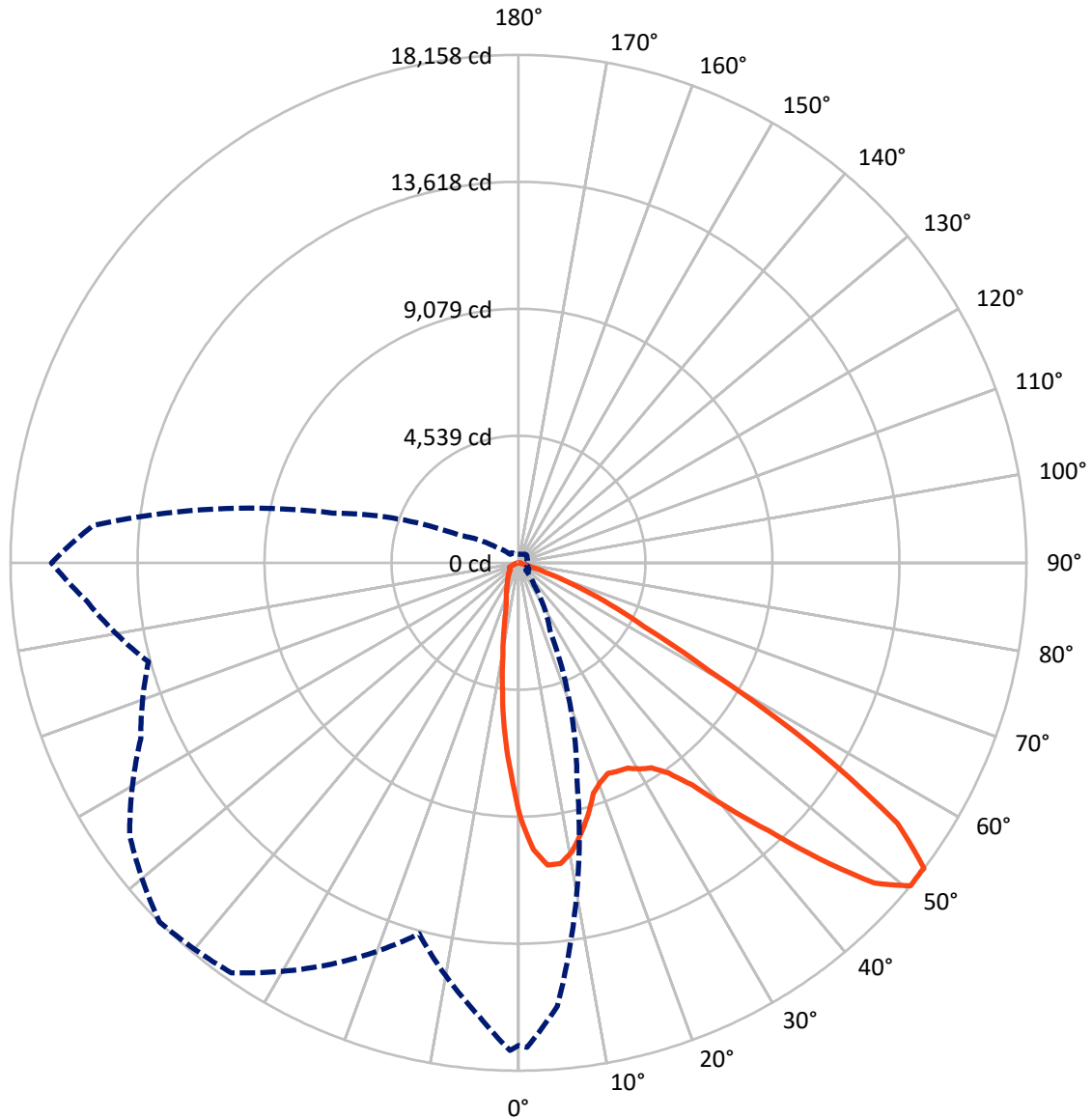
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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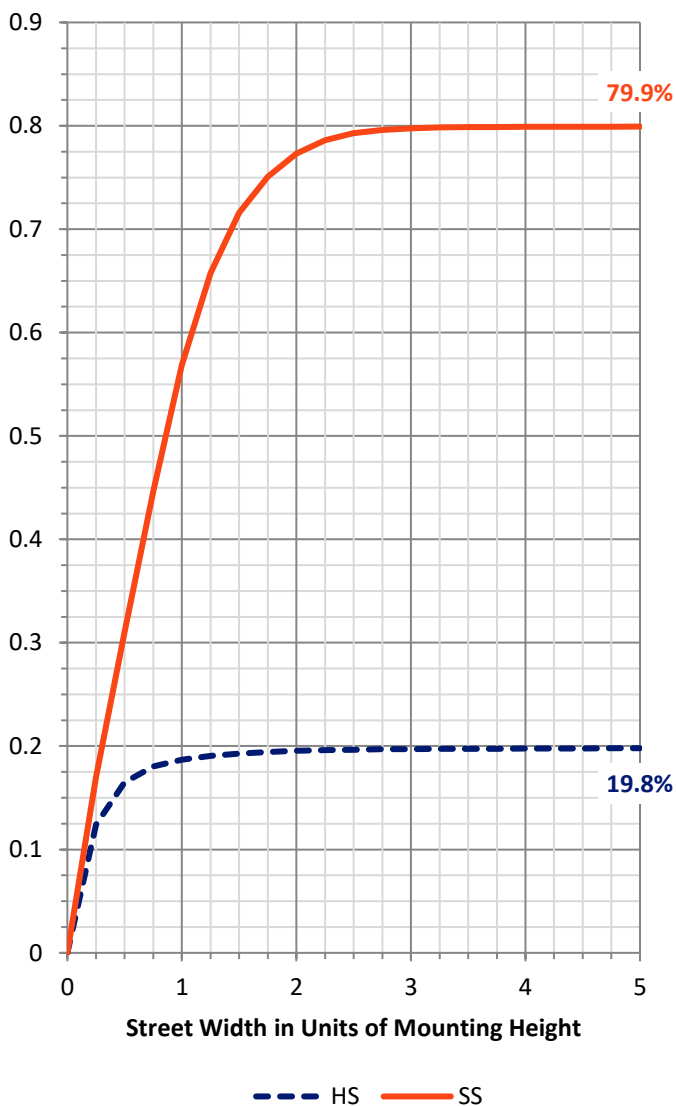
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3607.7	0.0	3607.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	14403.9	0.0	14403.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	18011.7	0.0	18011.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.8	3.7
10°-20°	1323.2	7.3
20°-30°	1987.9	11.0
30°-40°	2983.8	16.6
40°-50°	4193.5	23.3
50°-60°	4523.4	25.1
60°-70°	2100.2	11.7
70°-80°	197.6	1.1
80°-90°	36.4	0.2
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°	18011.7	100.0
0°-180°	18011.7	100.0

Coefficient of Utilization



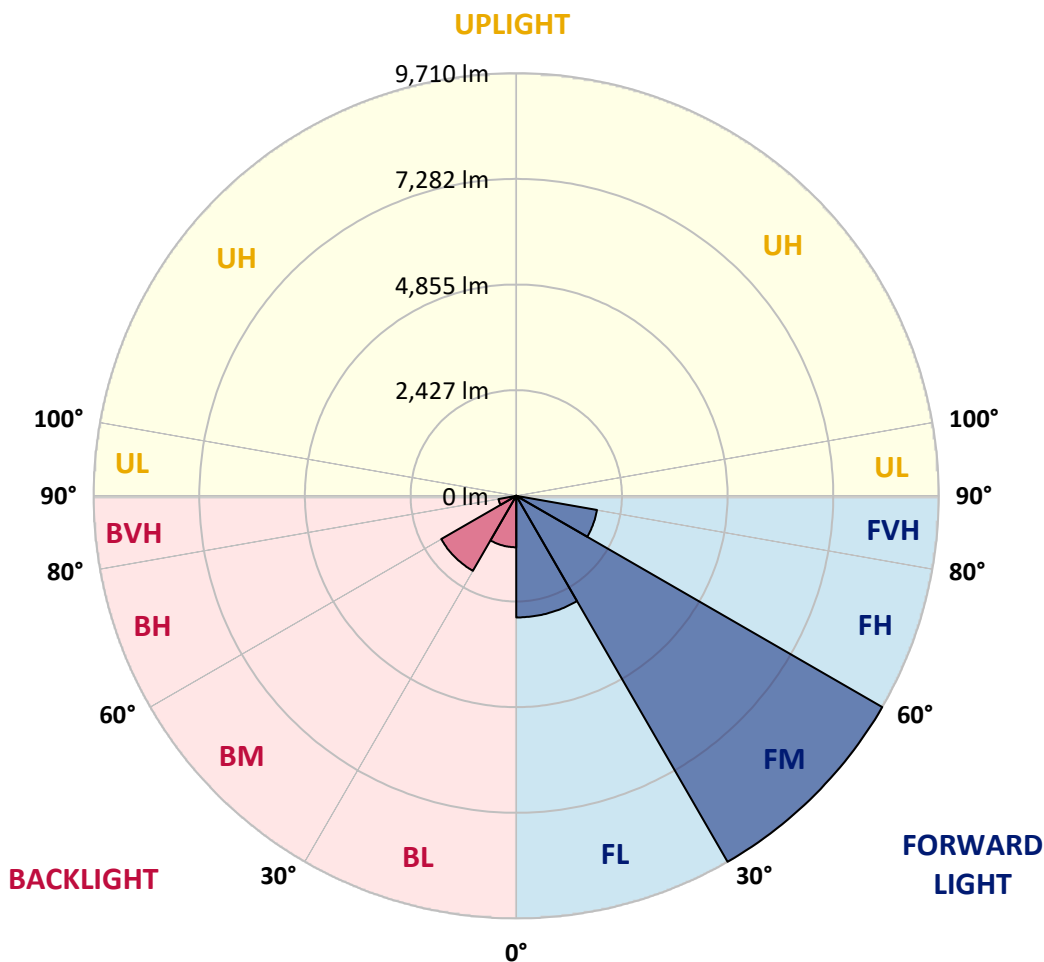
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2794.4	15.5			
FM	(30°-60°)	9709.7	53.9			
FH	(60°-80°)	1883.5	10.5			G2/5000
FVH	(80°-90°)	16.4	0.1			G1/100
BL	(0°-30°)	1182.5	6.6	B3/2500		
BM	(30°-60°)	1990.9	11.1	B2/2500		
BH	(60°-80°)	414.3	2.3	B1/500		G1/500
BVH	(80°-90°)	20.0	0.1			G1/100
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°	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2
2.5°	9495.1	9348.6	9162.8	9009.1	8780.4	8319.4	8194.4	8044.2	7919.2	7751.2	7515.3
5°	8633.9	8587.5	8501.7	7922.7	7504.7	6947.2	6489.7	6296.7	6043.0	5835.7	5685.7
7.5°	7976.4	7790.5	7519.0	6936.4	6268.1	5671.4	5163.9	4867.3	4531.4	4417.0	4213.3
10°	7272.4	7315.2	6915.0	6096.6	5289.0	4806.6	4492.0	4206.2	3902.4	3702.3	3412.8
12.5°	7047.2	6907.8	6600.5	5589.1	4899.4	4449.1	4066.8	3713.0	3391.4	3069.7	2791.0
15°	7193.7	6979.3	6550.5	5482.0	4599.3	4038.2	3559.4	3080.5	2783.9	2372.9	2083.4
17.5°	7719.0	7547.5	6972.1	5596.3	4445.6	3645.1	2933.9	2440.8	1986.9	1615.3	1468.7
20°	8594.6	8351.6	7629.7	5742.9	4216.9	3169.8	2380.0	1772.5	1343.7	1186.5	1104.2
22.5°	9452.3	9320.0	8408.7	6025.2	4013.2	2748.1	1786.8	1193.6	1004.2	975.6	922.0
25°	11085.4	10688.7	9598.8	6536.2	3856.0	2351.4	1347.3	961.3	850.5	829.1	836.2
27.5°	12057.4	11725.1	10699.5	6875.7	3680.8	2047.7	1140.0	882.7	807.6	761.2	743.3
30°	12990.2	12604.2	11246.2	7075.8	3305.6	1726.1	1011.3	847.0	829.1	761.2	739.7
32.5°	13708.5	13329.7	12036.0	7376.0	3152.0	1518.8	832.7	661.1	614.7	607.5	671.9
35°	14809.1	14405.3	12711.4	7540.3	3034.0	1411.6	721.9	589.6	536.1	514.6	518.1
37.5°	15834.8	15559.6	13336.8	7604.7	2908.9	1379.4	646.8	528.9	482.5	468.2	464.6
40°	16692.4	16077.7	13930.0	7672.6	2855.4	1318.7	600.4	482.5	450.3	428.8	428.8
42.5°	17085.5	16460.1	14594.7	7633.3	2841.1	1222.1	600.4	443.1	418.1	396.7	393.1
45°	16999.7	16746.1	14891.3	7615.4	2841.1	1125.7	546.7	432.4	396.7	368.1	361.0
47.5°	17221.3	16889.0	15263.0	7690.4	2783.9	1057.8	461.0	453.9	375.3	339.5	332.4
50°	17260.6	17324.9	15909.8	8080.0	2658.8	972.0	361.0	446.7	361.0	307.3	300.2
52°	17517.9	17117.7	16106.3	8287.2	2526.5	907.7	303.8	382.4	346.7	285.9	278.7
52.5°	17164.1	17425.0	16152.8	8362.3	2540.8	864.8	293.0	375.3	339.5	285.9	268.0
55°	16767.4	17017.6	15963.4	8523.1	2330.0	679.0	228.8	271.6	307.3	250.1	239.4
57.5°	14573.3	14827.0	13872.8	7804.8	1897.6	478.9	189.4	203.7	271.6	232.3	221.6
60°	12954.4	12772.2	11642.9	6511.2	1347.3	268.0	150.1	157.3	296.6	214.5	210.8
62.5°	11839.4	11449.9	9731.0	5028.1	821.9	178.7	117.9	121.5	228.8	200.2	200.2
65°	8758.9	8323.0	6464.7	3041.1	403.8	125.1	89.3	96.5	143.0	171.6	171.6
67.5°	4999.5	4831.5	3123.4	1372.3	167.9	78.6	67.9	75.0	110.8	139.4	132.2
70°	2297.9	2062.0	1200.8	289.5	78.6	53.6	53.6	60.7	89.3	103.6	96.5
72.5°	671.9	636.1	293.0	46.4	32.1	32.1	35.7	46.4	67.9	78.6	71.5
75°	50.0	32.1	21.4	14.3	14.3	21.4	28.6	46.4	67.9	75.0	60.7
77.5°	3.5	7.1	3.5	3.5	10.7	21.4	32.1	57.2	89.3	92.9	67.9
80°	3.5	3.5	0.0	3.5	10.7	21.4	35.7	64.3	100.1	107.2	57.2
82.5°	0.0	0.0	0.0	3.5	14.3	28.6	42.9	67.9	92.9	114.4	60.7
85°	0.0	0.0	0.0	3.5	21.4	39.3	50.0	17.8	10.7	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°	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2
2.5°	7683.3	7590.4	7554.6	7586.8	7576.1	7565.4	7761.9	7719.0	7711.9	7776.2	7761.9
5°	5767.8	5603.4	6053.8	5871.4	6060.9	6175.2	6196.7	6207.4	6339.6	6200.3	6382.5
7.5°	4109.7	4152.5	4149.0	4270.5	4488.5	4681.4	4795.8	4706.5	4699.3	4681.4	4602.9
10°	3284.2	3209.1	3194.8	3166.2	3234.1	3398.6	3537.9	3427.1	3348.5	3455.7	3423.5
12.5°	2683.8	2580.2	2523.0	2408.6	2412.2	2523.0	2523.0	2523.0	2601.6	2662.4	2708.8
15°	2058.4	1972.6	1972.6	1858.3	1833.3	1836.8	1894.0	1901.2	2026.2	2062.0	2079.9
17.5°	1440.2	1393.7	1447.4	1493.8	1465.2	1472.3	1493.8	1500.9	1518.8	1504.5	1540.2
20°	1107.8	1100.7	1115.0	1197.2	1257.9	1293.6	1268.6	1232.9	1211.5	1161.4	1161.4
22.5°	939.9	954.2	979.2	1047.0	1125.7	1147.1	1118.5	1036.4	972.0	964.9	968.5
25°	836.2	850.5	889.9	932.8	975.6	1011.3	982.7	922.0	886.2	854.1	854.1
27.5°	771.9	779.0	800.5	832.7	868.4	897.0	886.2	854.1	814.8	800.5	768.3
30°	721.9	732.6	757.6	764.7	796.9	811.2	793.3	786.2	761.2	743.3	732.6
32.5°	696.9	693.3	711.1	718.3	721.9	732.6	711.1	721.9	718.3	689.7	679.0
35°	525.3	553.9	600.4	639.7	650.4	664.7	661.1	646.8	607.5	575.3	536.1
37.5°	471.7	489.5	514.6	546.7	589.6	607.5	600.4	564.6	518.1	496.7	489.5
40°	436.0	446.7	468.2	489.5	532.4	564.6	539.6	507.5	471.7	453.9	443.1
42.5°	403.8	407.4	418.1	439.6	471.7	521.8	478.9	436.0	421.7	411.0	403.8
45°	368.1	368.1	382.4	393.1	428.8	475.3	432.4	393.1	385.9	378.8	375.3
47.5°	339.5	343.0	350.2	364.5	393.1	425.3	396.7	364.5	346.7	343.0	335.9
50°	303.8	307.3	321.6	335.9	371.6	389.6	371.6	335.9	318.1	307.3	307.3
52°	275.2	285.9	300.2	328.7	353.8	382.4	361.0	321.6	300.2	289.5	282.3
52.5°	271.6	278.7	293.0	325.2	353.8	378.8	357.3	318.1	293.0	285.9	278.7
55°	243.0	253.7	278.7	318.1	350.2	378.8	350.2	314.4	278.7	260.9	253.7
57.5°	232.3	239.4	271.6	321.6	346.7	378.8	350.2	314.4	278.7	246.6	239.4
60°	221.6	235.9	271.6	310.9	343.0	382.4	353.8	310.9	271.6	232.3	232.3
62.5°	210.8	221.6	268.0	303.8	328.7	368.1	339.5	303.8	260.9	221.6	218.0
65°	182.2	200.2	235.9	253.7	282.3	318.1	289.5	264.4	228.8	196.5	193.0
67.5°	139.4	146.5	175.1	196.5	214.5	246.6	232.3	200.2	175.1	150.1	150.1
70°	96.5	103.6	125.1	135.8	153.7	171.6	160.8	135.8	117.9	103.6	100.1
72.5°	67.9	71.5	78.6	85.8	92.9	100.1	96.5	78.6	67.9	64.3	60.7
75°	53.6	60.7	64.3	60.7	57.2	53.6	53.6	46.4	39.3	35.7	35.7
77.5°	53.6	57.2	53.6	46.4	39.3	35.7	32.1	28.6	21.4	17.8	21.4
80°	46.4	46.4	46.4	39.3	35.7	32.1	28.6	25.0	21.4	17.8	17.8
82.5°	50.0	50.0	46.4	39.3	39.3	32.1	32.1	28.6	25.0	17.8	17.8
85°	0.0	0.0	0.0	7.1	17.8	32.1	32.1	28.6	25.0	21.4	21.4
87.5°	0.0	0.0	0.0	0.0	3.5	7.1	14.3	17.8	21.4	21.4	21.4
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°	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2
2.5°	7890.6	8026.3	8283.7	8540.9	8698.2	8884.1	9220.0	9398.7	9631.0	9745.3	9970.4
5°	6357.5	6679.1	6793.5	7086.5	7401.0	7715.5	8215.8	8766.1	9223.6	9538.0	9945.4
7.5°	4638.5	4713.6	5156.8	5353.3	5867.9	6439.7	7122.3	7815.5	8394.4	8909.0	9220.0
10°	3477.1	3752.3	4031.1	4406.3	4820.9	5410.5	6064.5	6829.2	7579.7	8094.3	8487.4
12.5°	2794.6	3012.5	3384.3	3788.0	4299.1	4688.6	5346.2	6103.7	7075.8	7579.7	8097.8
15°	2115.6	2394.3	2816.0	3234.1	3773.7	4184.7	4849.5	5803.6	7054.3	7747.6	8194.4
17.5°	1568.8	1758.2	2137.1	2605.2	3155.5	3734.5	4631.4	5771.4	7293.7	8119.3	8580.3
20°	1200.8	1265.0	1504.5	1922.6	2519.4	3277.0	4277.7	5910.8	8001.4	9023.4	9491.5
22.5°	972.0	1000.6	1093.6	1383.0	1961.9	2876.8	4109.7	6007.3	8798.3	10106.2	10731.6
25°	847.0	839.8	900.5	1025.6	1533.1	2501.6	3895.3	6371.8	9773.8	11378.5	11939.5
27.5°	771.9	771.9	800.5	889.9	1272.2	2258.5	3759.4	6632.6	10756.6	12497.0	12800.8
30°	732.6	739.7	821.9	850.5	1057.8	1969.0	3534.3	6897.1	11696.5	13211.7	13629.8
32.5°	679.0	650.4	632.5	704.0	889.9	1708.2	3309.2	7007.9	12457.6	14087.3	14444.6
35°	521.8	507.5	528.9	582.5	764.7	1486.6	3059.1	7132.9	13333.2	15102.2	15173.7
37.5°	471.7	468.2	482.5	528.9	643.3	1293.6	2880.3	7100.8	14001.5	15942.0	15749.0
40°	436.0	436.0	446.7	486.0	575.3	1157.9	2694.5	7072.2	14648.3	16885.4	16320.8
42.5°	407.4	407.4	425.3	450.3	546.7	1068.5	2555.1	7032.9	15191.5	17464.4	16656.7
45°	368.1	378.8	407.4	432.4	553.9	1007.8	2451.5	6882.8	15377.3	17457.2	16495.9
47.5°	339.5	353.8	382.4	418.1	500.3	989.9	2380.0	6750.6	15313.0	17028.3	15992.0
50°	307.3	325.2	364.5	425.3	425.3	954.2	2305.0	6868.5	15266.6	16696.0	15509.6
52°	285.9	300.2	350.2	414.5	371.6	879.1	2258.5	7097.2	15456.0	16653.1	15295.1
52.5°	282.3	293.0	339.5	407.4	353.8	864.8	2226.4	7150.9	15516.7	16545.9	15441.7
55°	250.1	264.4	310.9	318.1	289.5	711.1	2122.8	7272.4	15216.5	16335.1	15302.2
57.5°	235.9	243.0	275.2	260.9	250.1	536.1	1826.1	7082.9	13515.5	14508.9	14237.4
60°	218.0	225.1	257.3	203.7	210.8	375.3	1372.3	6150.2	10853.1	12089.6	12579.2
62.5°	210.8	207.3	243.0	164.4	178.7	271.6	968.5	4999.5	8362.3	9952.6	10799.5
65°	185.9	182.2	175.1	139.4	153.7	210.8	578.9	3262.7	5892.9	7529.6	7994.2
67.5°	143.0	150.1	128.7	110.8	128.7	164.4	321.6	1461.6	3091.2	4517.1	4892.3
70°	100.1	107.2	103.6	96.5	114.4	135.8	185.9	500.3	1279.3	2372.9	2615.9
72.5°	60.7	75.0	78.6	82.2	100.1	117.9	132.2	160.8	339.5	839.8	1043.5
75°	35.7	50.0	60.7	71.5	82.2	100.1	110.8	114.4	117.9	157.3	253.7
77.5°	25.0	35.7	53.6	67.9	82.2	100.1	117.9	125.1	117.9	110.8	117.9
80°	21.4	35.7	50.0	64.3	85.8	103.6	117.9	117.9	114.4	100.1	107.2
82.5°	21.4	35.7	53.6	67.9	82.2	100.1	114.4	117.9	107.2	100.1	103.6
85°	25.0	39.3	57.2	71.5	89.3	82.2	75.0	60.7	57.2	46.4	50.0
87.5°	25.0	35.7	35.7	39.3	42.9	42.9	42.9	39.3	32.1	28.6	28.6
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: P651408

CATALOG NUMBER: GALN-SA5D-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2	9134.2
2.5°	9981.2	10267.0	10256.3	10263.5	10220.6	9931.1	9791.8	9438.0	9538.0	9495.1
5°	10363.6	10645.9	10888.8	10860.3	10531.5	10138.4	9555.9	9005.5	8855.5	8633.9
7.5°	9981.2	10660.2	10885.3	10853.1	10367.1	9863.2	8934.1	8383.8	8122.9	7976.4
10°	9373.6	10159.9	10438.6	10495.8	10167.0	9402.2	8548.1	7665.5	7526.0	7272.4
12.5°	9027.0	9598.8	9770.3	9924.0	9809.6	9237.8	8255.1	7408.1	7215.2	7047.2
15°	8744.6	9084.1	9155.6	9330.7	9398.7	9091.3	8408.7	7686.9	7211.6	7193.7
17.5°	9005.5	8866.2	8605.3	8658.9	8873.3	9094.9	8805.4	8237.3	7776.2	7719.0
20°	9438.0	8823.3	8233.6	8365.8	8544.6	9223.6	9405.8	9005.5	8741.1	8594.6
22.5°	9934.7	8898.4	8115.7	8180.1	8519.5	9513.0	10377.9	10156.3	9663.1	9452.3
25°	10853.1	9105.6	8208.7	8251.6	8716.1	9916.8	11257.0	11421.3	11128.3	11085.4
27.5°	11750.1	9641.6	8412.4	8315.8	8816.1	10309.9	11789.4	12672.1	12157.5	12057.4
30°	12207.5	10077.6	8716.1	8551.7	9230.6	10549.3	12111.1	13486.9	13036.6	12990.2
32.5°	12907.9	10474.3	8951.9	8741.1	9463.0	10846.0	12711.4	14376.7	13940.8	13708.5
35°	13201.0	10906.8	9470.1	9223.6	10127.7	11260.5	13018.8	15170.0	15034.3	14809.1
37.5°	13765.7	11371.3	10081.2	10066.9	10931.7	11800.2	13572.6	16249.3	16224.3	15834.8
40°	13812.1	11878.8	11046.1	11496.4	12175.3	12740.0	14058.7	16549.5	16956.9	16692.4
42.5°	13883.6	12768.6	12715.0	13086.6	13669.1	13547.7	14076.6	16620.9	17242.8	17085.5
45°	13915.7	13658.4	14412.5	15098.6	15341.6	14605.4	13908.5	16485.2	17392.9	16999.7
47.5°	13658.4	14423.2	15784.7	17110.6	17182.1	15255.8	13837.1	16345.8	17482.2	17221.3
50°	13694.2	14902.0	16971.2	18157.6	17896.7	15831.2	13726.3	16260.1	17435.8	17260.6
52°	13608.4	14912.8	17139.2	18136.2	17953.9	15513.2	13536.9	15931.2	17392.9	17517.9
52.5°	13704.9	14848.4	16964.1	18150.5	17914.6	15670.4	13511.9	16113.5	17417.9	17164.1
55°	13372.5	14083.6	15938.4	16442.3	16406.6	14223.1	12743.6	15509.6	16763.9	16767.4
57.5°	12086.0	12207.5	12500.5	12489.9	12325.4	11181.9	10899.6	14262.4	14944.9	14573.3
60°	10649.4	8937.6	8147.9	7826.3	7644.0	7458.2	9641.6	13047.4	13111.6	12954.4
62.5°	9202.1	6196.7	5146.0	5056.7	5099.6	5778.6	9320.0	12564.9	12178.9	11839.4
65°	7426.0	4517.1	3738.0	3620.1	4038.2	4770.8	7543.9	9634.5	9041.3	8758.9
67.5°	4663.6	3294.9	2526.5	2305.0	2808.9	3284.2	4956.6	6053.8	5389.0	4999.5
70°	2766.0	1840.4	1143.6	1025.6	1154.3	1751.0	2776.7	3019.7	2497.9	2297.9
72.5°	1089.9	675.4	318.1	271.6	282.3	614.7	1022.1	997.0	754.0	671.9
75°	293.0	203.7	110.8	89.3	75.0	114.4	164.4	107.2	39.3	50.0
77.5°	135.8	121.5	96.5	75.0	57.2	42.9	21.4	7.1	7.1	3.5
80°	117.9	103.6	89.3	75.0	57.2	35.7	17.8	3.5	3.5	3.5
82.5°	110.8	96.5	82.2	67.9	53.6	35.7	17.8	3.5	0.0	0.0
85°	46.4	60.7	67.9	64.3	57.2	35.7	17.8	3.5	0.0	0.0
87.5°	25.0	21.4	17.8	14.3	10.7	7.1	7.1	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

(END OF REPORT)