

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: P652400

Luminaire Tested: **GALN-SA5B-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17210.2 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 204
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

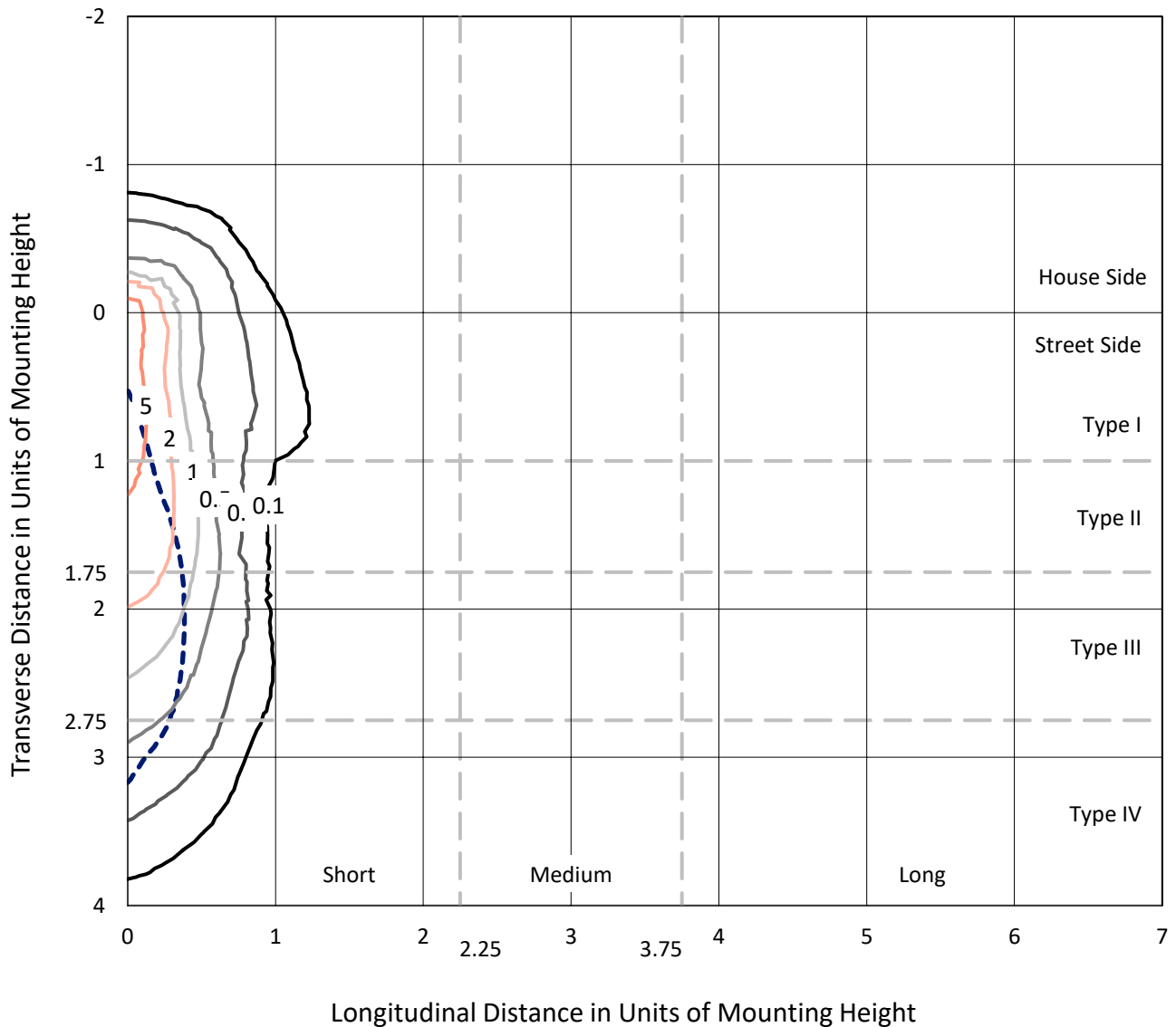




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Iso-Footcandle Lines of Horizontal Illumination

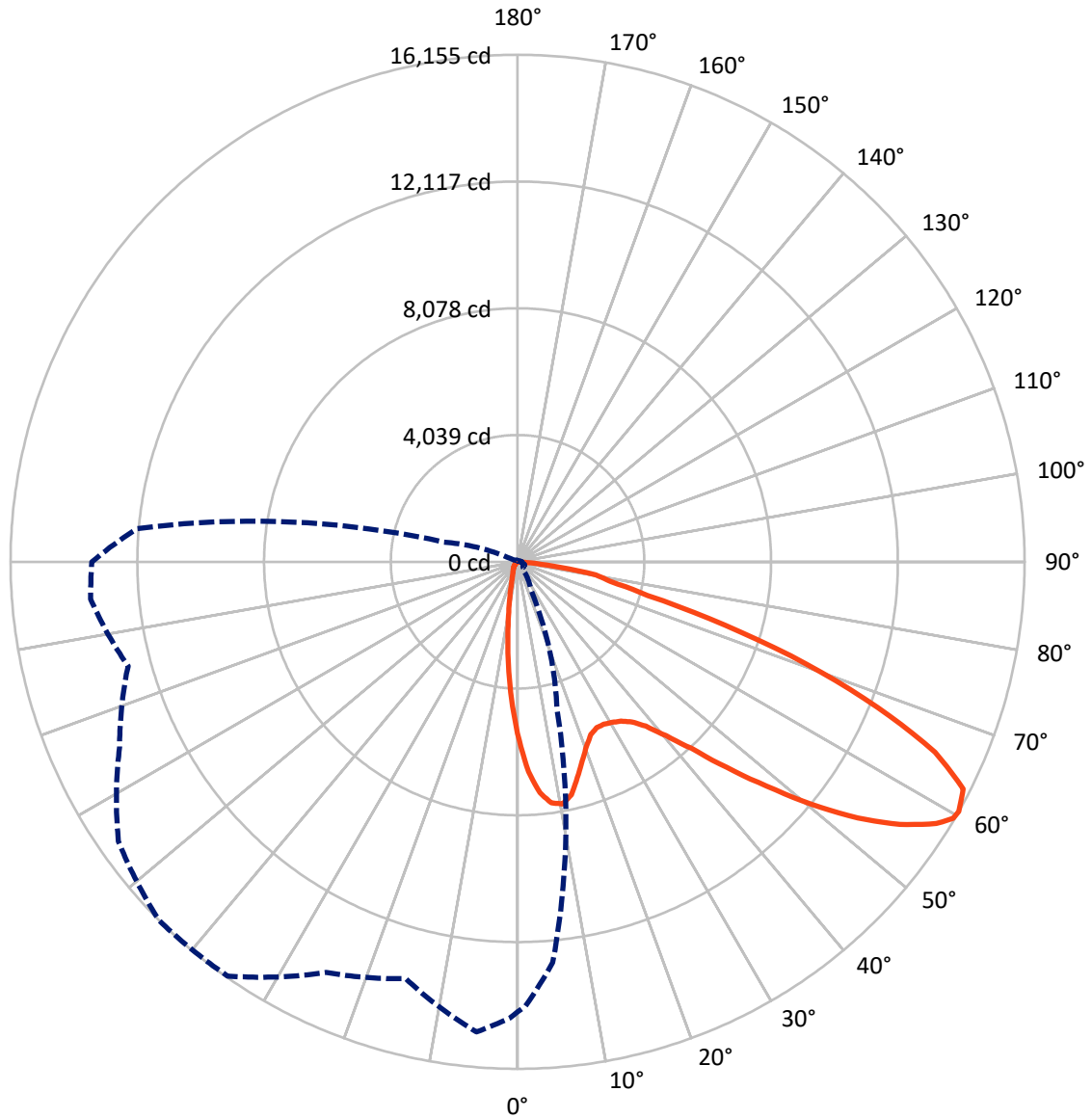
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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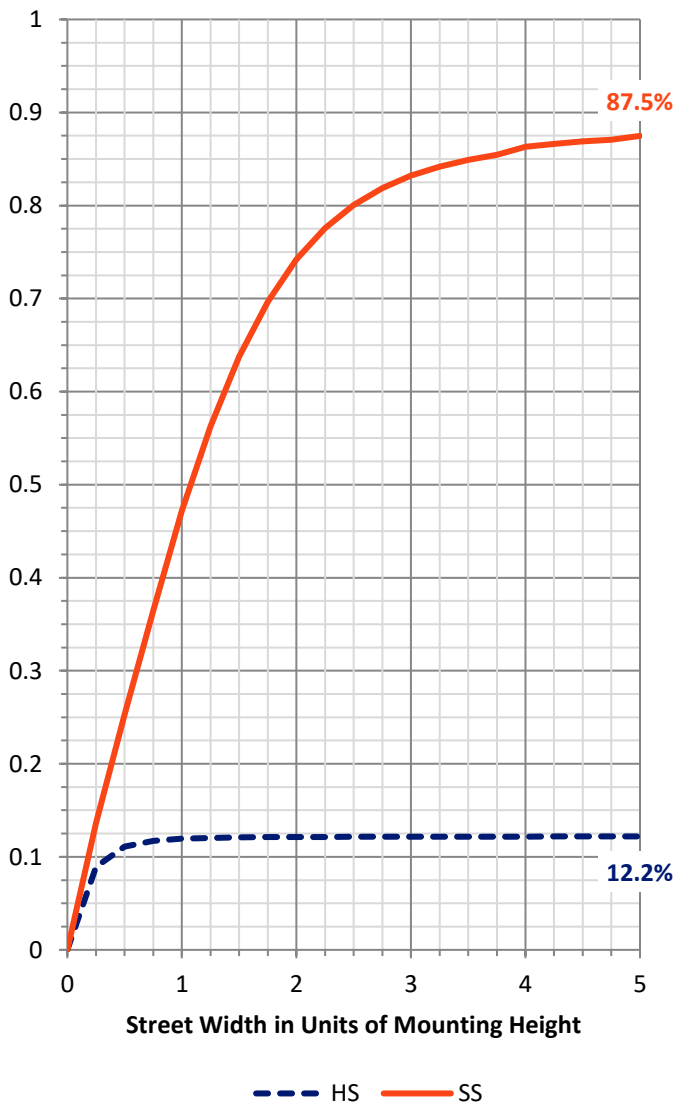
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.7	0.0	2122.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	15087.5	0.0	15087.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	17210.2	0.0	17210.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	2.5
10°-20°	840.2	4.9
20°-30°	1232.0	7.2
30°-40°	1832.2	10.6
40°-50°	2666.4	15.5
50°-60°	3845.2	22.3
60°-70°	4229.3	24.6
70°-80°	1894.4	11.0
80°-90°	247.5	1.4
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°	17210.2	100.0
0°-180°	17210.2	100.0

Coefficient of Utilization



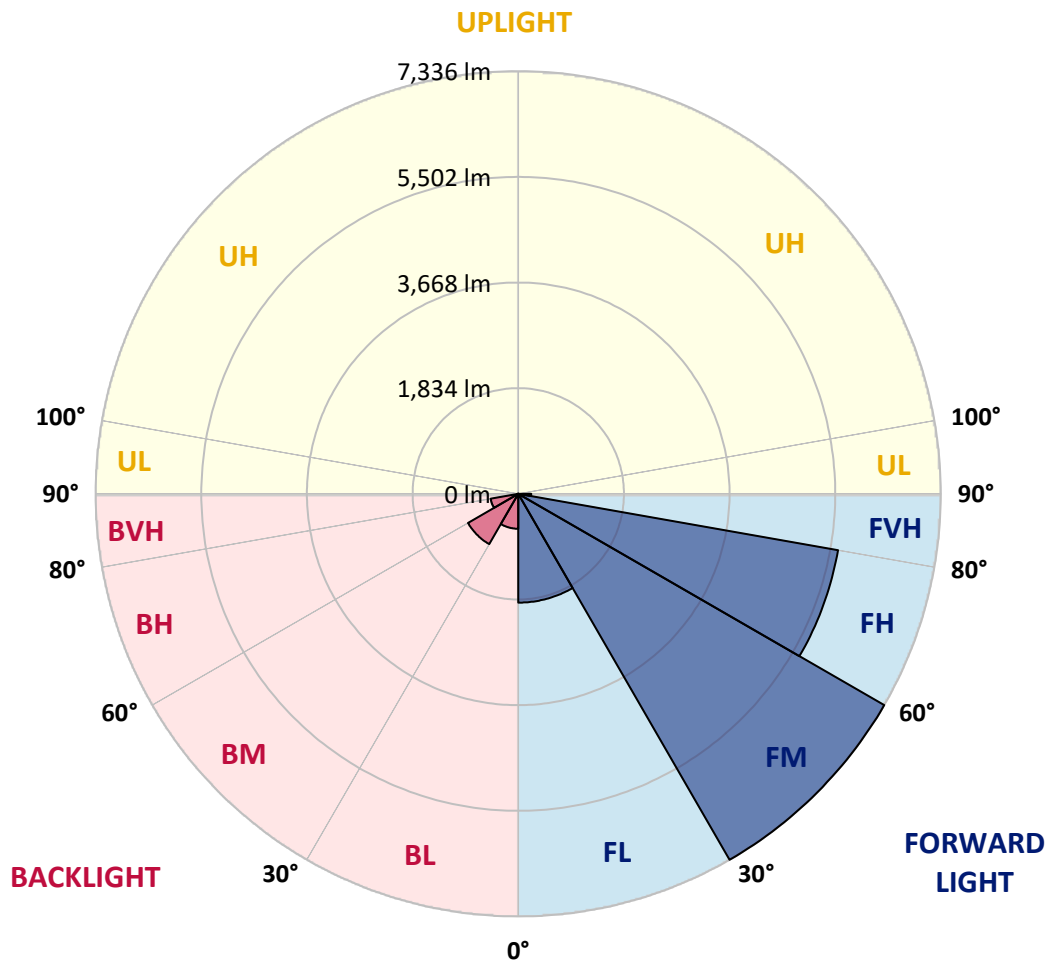
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.8	11.0			
FM (30°-60°)	7335.5	42.6			
FH (60°-80°)	5636.9	32.8			G3/7500
FVH (80°-90°)	226.4	1.3			G3/500
BL (0°-30°)	606.5	3.5	B2/1000		
BM (30°-60°)	1008.2	5.9	B2/2500		
BH (60°-80°)	486.8	2.8	B1/500		G1/500
BVH (80°-90°)	21.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2
2.5°	6253.4	6225.9	6163.1	5972.1	5805.9	5588.8	5369.0	5196.3	5090.3	4895.5	4806.5
5°	6058.5	6071.5	5889.7	5497.2	5060.3	4762.0	4436.3	4177.2	3892.0	3711.5	3521.8
7.5°	5549.6	5523.4	5325.8	4779.0	4247.9	3816.1	3404.0	3069.1	2858.5	2689.8	2548.5
10°	5113.9	5094.3	4841.8	4138.0	3567.6	3244.4	2965.8	2672.7	2446.4	2199.1	2001.6
12.5°	4840.5	4796.0	4505.6	3770.4	3305.9	3005.1	2701.5	2396.7	2084.0	1834.1	1594.7
15°	4748.9	4684.8	4361.7	3643.5	3138.4	2756.5	2375.7	2025.1	1665.3	1389.3	1208.9
17.5°	4915.1	4809.1	4465.0	3621.2	2938.3	2432.0	1963.7	1507.1	1132.9	922.3	811.1
20°	5295.8	5174.1	4726.7	3599.0	2715.9	2068.4	1492.7	1064.9	783.6	668.5	607.0
22.5°	5860.9	5693.5	5113.9	3634.3	2510.6	1713.8	1078.0	752.3	622.8	550.8	507.6
25°	6539.9	6399.9	5604.5	3759.9	2348.3	1435.2	833.3	614.9	524.6	480.1	447.4
27.5°	7284.2	7060.5	6239.0	3910.3	2200.5	1219.3	731.3	549.4	467.0	426.5	409.5
30°	7814.2	7640.1	6770.1	4015.0	2016.0	1057.1	668.5	541.6	468.4	419.9	388.5
32.5°	8337.4	8115.0	7214.9	4063.4	1881.2	944.5	578.3	472.3	410.8	385.9	354.6
35°	8897.4	8664.5	7658.4	4037.2	1780.5	870.0	524.6	421.3	351.9	310.1	278.6
37.5°	9463.8	9217.9	8099.3	3943.0	1717.7	839.9	482.7	400.3	332.3	289.1	255.1
40°	10136.2	9807.9	8512.7	3865.8	1652.3	824.2	455.2	387.3	317.9	272.1	238.1
42.5°	10685.7	10373.1	8903.9	3825.3	1607.8	787.6	455.2	376.8	308.7	257.7	222.4
45°	11206.4	10882.0	9326.4	3858.0	1589.5	741.8	460.5	375.5	302.2	247.3	211.9
47.5°	11642.0	11360.7	9760.8	3981.0	1565.9	692.1	433.0	393.8	298.3	238.1	201.5
50°	12156.2	11884.1	10335.1	4229.6	1524.1	642.4	399.1	423.9	297.0	230.3	192.3
52.5°	12880.9	12586.6	11127.9	4512.1	1457.4	566.5	367.6	419.9	291.7	217.1	183.2
55°	13766.6	13528.5	12046.2	4851.0	1365.8	481.5	317.9	372.8	276.0	194.9	167.4
57.5°	14334.3	14131.6	12734.4	4997.5	1225.8	393.8	280.0	312.7	252.5	174.0	149.1
59°	14401.1	14217.9	12878.3	4949.0	1134.3	359.8	261.6	268.2	245.9	162.2	138.7
60°	14344.9	14155.1	12820.7	4854.8	1049.2	336.2	245.9	238.1	247.3	155.7	130.9
62.5°	13983.8	13659.4	12262.1	4377.4	917.1	308.7	218.5	194.9	218.5	139.9	116.4
65°	13286.5	12799.9	11156.7	3704.9	864.7	293.0	185.8	163.5	166.2	123.0	100.8
67.5°	12068.5	11454.9	9684.9	3010.3	842.5	294.3	157.0	146.5	128.2	104.6	89.0
70°	10142.8	9530.5	7770.9	2476.5	832.0	294.3	133.5	125.6	107.3	87.6	77.2
72.5°	7187.4	6528.1	5242.1	1945.3	749.6	293.0	113.8	113.8	87.6	73.3	62.8
75°	4060.8	4066.0	3295.5	1376.3	622.8	242.0	91.6	90.2	64.1	56.3	47.1
77.5°	2366.6	2324.8	2221.4	591.3	289.1	109.9	64.1	54.9	44.5	40.5	34.0
80°	1216.7	1000.8	974.6	214.5	103.4	69.3	44.5	31.4	28.8	26.2	23.5
82.5°	359.8	361.0	321.9	86.4	57.5	45.8	22.2	17.0	15.7	14.4	14.4
85°	24.9	15.7	18.3	26.2	35.3	18.3	1.3	4.0	4.0	5.2	6.6
87.5°	2.6	1.3	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°	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2
2.5°	4708.3	4765.9	4658.6	4661.2	4572.3	4601.1	4496.4	4530.5	4468.9	4516.0	4654.7
5°	3542.7	3555.8	3469.5	3442.0	3455.1	3508.7	3529.6	3434.1	3474.7	3394.9	3389.7
7.5°	2496.1	2511.8	2462.1	2455.6	2549.7	2527.5	2568.1	2469.9	2377.1	2417.6	2343.0
10°	1938.8	1873.4	1771.3	1742.6	1724.2	1736.0	1736.0	1647.1	1634.0	1598.7	1652.3
12.5°	1530.6	1450.8	1354.0	1223.2	1190.5	1187.9	1139.5	1061.0	1036.1	1006.0	1050.5
15°	1112.0	1079.3	998.2	924.9	850.3	836.0	757.5	693.4	608.3	596.5	592.7
17.5°	782.3	733.9	732.6	690.7	647.6	618.8	545.6	472.3	439.6	435.6	435.6
20°	586.1	569.1	541.6	536.4	523.3	490.6	425.2	385.9	370.2	371.6	376.8
22.5°	493.2	481.5	456.6	444.8	439.6	410.8	362.4	336.2	328.3	328.3	329.7
25°	440.9	430.4	402.9	384.6	378.1	357.2	319.2	299.6	293.0	293.0	293.0
27.5°	401.7	388.5	359.8	344.1	332.3	308.7	285.2	265.6	259.0	259.0	260.4
30°	374.2	359.8	333.6	312.7	294.3	273.4	253.8	236.8	228.9	227.7	228.9
32.5°	337.5	324.5	298.3	285.2	264.2	239.4	223.7	208.0	200.2	201.5	200.2
35°	263.0	259.0	240.7	244.6	232.9	211.9	197.6	180.6	171.4	170.1	172.7
37.5°	239.4	223.7	202.8	204.1	200.2	192.3	168.8	150.5	143.9	143.9	145.2
40°	221.1	205.4	181.8	170.1	171.4	171.4	146.5	126.9	120.3	119.1	121.7
42.5°	205.4	189.7	163.5	143.9	138.7	145.2	124.3	104.6	98.1	95.5	98.1
45°	194.9	178.0	147.8	125.6	109.9	117.7	102.0	86.4	78.5	78.5	77.2
47.5°	184.4	168.8	136.1	108.6	91.6	87.6	83.8	69.3	61.5	60.2	61.5
50°	175.3	159.6	123.0	94.2	77.2	68.0	68.0	54.9	49.7	47.1	48.4
52.5°	166.2	149.1	111.2	83.8	66.7	54.9	48.4	44.5	40.5	39.3	40.5
55°	153.1	136.1	99.4	72.0	57.5	45.8	37.9	36.7	34.0	31.4	34.0
57.5°	137.3	121.7	87.6	61.5	45.8	35.3	31.4	30.1	27.5	26.2	26.2
59°	128.2	113.8	81.1	53.7	40.5	31.4	28.8	27.5	24.9	22.2	23.5
60°	123.0	111.2	77.2	49.7	36.7	28.8	26.2	24.9	22.2	20.9	22.2
62.5°	108.6	99.4	68.0	40.5	28.8	20.9	18.3	19.6	18.3	17.0	18.3
65°	95.5	87.6	57.5	31.4	22.2	14.4	13.1	17.0	15.7	14.4	15.7
67.5°	85.0	75.9	48.4	23.5	15.7	7.8	9.2	14.4	14.4	13.1	14.4
70°	73.3	65.4	39.3	17.0	7.8	4.0	6.6	10.4	13.1	11.8	13.1
72.5°	60.2	51.0	30.1	11.8	4.0	0.0	4.0	9.2	13.1	11.8	13.1
75°	47.1	37.9	22.2	6.6	0.0	0.0	1.3	7.8	13.1	11.8	13.1
77.5°	34.0	27.5	13.1	1.3	0.0	0.0	1.3	7.8	13.1	11.8	13.1
80°	22.2	19.6	5.2	0.0	0.0	0.0	1.3	7.8	13.1	13.1	14.4
82.5°	14.4	10.4	0.0	0.0	0.0	0.0	2.6	10.4	14.4	15.7	15.7
85°	6.6	0.0	0.0	0.0	0.0	0.0	5.2	13.1	17.0	17.0	17.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	9.2	15.7	19.6	19.6	19.6
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°	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2
2.5°	4678.2	4760.6	4877.1	5056.3	5201.6	5430.5	5605.8	5845.2	6087.2	6160.5	6274.3
5°	3443.3	3549.3	3813.5	4054.2	4206.0	4690.0	4996.1	5478.9	5911.9	6120.0	6346.3
7.5°	2391.5	2517.0	2718.5	3054.8	3373.9	3767.8	4262.3	4814.3	5448.8	5745.8	6065.0
10°	1678.5	1835.5	2119.3	2395.4	2797.0	3171.2	3659.1	4268.7	4968.7	5319.3	5719.6
12.5°	1059.7	1199.7	1575.1	1885.2	2386.3	2820.5	3270.6	3822.7	4633.8	4993.5	5413.5
15°	605.7	723.4	898.8	1296.5	1852.5	2426.8	2988.0	3629.1	4462.4	4905.9	5359.9
17.5°	451.4	482.7	561.2	786.3	1292.5	1963.7	2727.7	3570.2	4578.8	5099.5	5617.5
20°	379.4	400.3	437.0	525.9	824.2	1512.3	2473.9	3580.6	4955.6	5609.7	6101.6
22.5°	340.1	353.2	383.3	440.9	562.5	1101.5	2176.9	3642.1	5412.2	6236.4	6804.2
25°	298.3	315.3	341.4	391.1	468.4	764.0	1883.8	3779.5	6051.9	7031.8	7565.6
27.5°	265.6	281.2	307.5	353.2	410.8	583.5	1542.4	3897.3	6727.0	7832.4	8269.4
30°	232.9	248.6	274.8	311.3	363.7	472.3	1174.8	3966.6	7382.4	8432.9	8769.1
32.5°	205.4	218.5	243.3	276.0	319.2	400.3	926.2	3894.6	7883.4	8978.4	9203.5
35°	178.0	193.6	214.5	244.6	282.6	341.4	770.5	3646.1	8313.9	9539.7	9620.8
37.5°	149.1	167.4	189.7	217.1	247.3	313.9	618.8	3371.3	8774.3	10239.6	10106.1
40°	125.6	142.6	163.5	193.6	221.1	287.8	476.2	3078.3	9271.5	10896.3	10636.0
42.5°	102.0	120.3	145.2	172.7	218.5	251.2	368.9	2774.8	9717.6	11468.0	11114.8
45°	81.1	96.8	123.0	158.3	217.1	215.9	285.2	2475.1	10053.8	11876.2	11471.9
47.5°	64.1	77.2	103.4	154.4	200.2	183.2	228.9	2289.5	10407.0	12243.8	11745.4
50°	51.0	64.1	89.0	160.9	175.3	157.0	192.3	2319.5	10748.5	12430.9	11857.8
52.5°	43.1	56.3	77.2	126.9	134.7	137.3	168.8	2458.2	11189.3	12631.1	12081.6
55°	37.9	49.7	65.4	89.0	104.6	123.0	154.4	2558.9	11779.4	13060.1	12574.8
57.5°	30.1	43.1	58.9	75.9	86.4	107.3	142.6	2566.7	12313.2	13610.9	13230.2
59°	27.5	39.3	54.9	72.0	77.2	96.8	134.7	2500.0	12332.8	13693.3	13531.1
60°	24.9	37.9	52.3	66.7	73.3	91.6	128.2	2422.8	12154.9	13562.6	13655.4
62.5°	20.9	32.7	45.8	53.7	62.8	75.9	111.2	2142.9	11292.7	12969.9	13425.1
65°	18.3	28.8	39.3	44.5	52.3	65.4	98.1	1715.1	10340.3	12166.7	12765.8
67.5°	17.0	26.2	34.0	37.9	45.8	60.2	87.6	1211.5	9106.7	11147.5	11775.4
70°	15.7	24.9	30.1	35.3	40.5	51.0	74.6	706.4	7014.8	9360.4	10023.7
72.5°	15.7	23.5	26.2	30.1	35.3	45.8	69.3	382.0	4796.0	7140.3	7997.2
75°	15.7	22.2	23.5	26.2	31.4	41.9	61.5	200.2	3100.5	4960.8	6122.6
77.5°	15.7	20.9	23.5	24.9	30.1	36.7	53.7	125.6	2065.7	3474.7	4138.0
80°	17.0	20.9	22.2	24.9	28.8	34.0	44.5	83.8	1214.1	2090.6	2518.4
82.5°	18.3	20.9	23.5	26.2	30.1	32.7	39.3	52.3	559.9	1382.8	1564.7
85°	19.6	22.2	24.9	27.5	31.4	32.7	36.7	37.9	91.6	624.0	843.8
87.5°	20.9	23.5	26.2	28.8	34.0	34.0	34.0	34.0	31.4	66.7	170.1
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: P652400

CATALOG NUMBER: GALN-SA5B-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2	5688.2
2.5°	6418.3	6566.0	6669.4	6695.5	6621.0	6587.0	6492.8	6346.3	6257.3	6253.4
5°	6763.6	7110.3	7351.0	7391.5	7247.7	7004.4	6715.2	6342.3	6123.9	6058.5
7.5°	6704.7	7311.7	7699.0	7755.3	7513.2	7048.8	6488.9	5888.3	5650.3	5549.6
10°	6462.7	7203.2	7756.5	7845.5	7522.4	6868.3	6156.5	5486.8	5191.1	5113.9
12.5°	6256.0	7004.4	7496.3	7619.2	7374.6	6721.7	5957.7	5229.0	4912.4	4840.5
15°	6165.7	6768.9	7069.7	7132.5	7092.0	6630.2	5936.8	5189.8	4827.4	4748.9
17.5°	6256.0	6568.6	6606.6	6670.7	6761.0	6621.0	6138.3	5403.0	5011.9	4915.1
20°	6492.8	6394.7	6237.7	6265.2	6471.8	6659.0	6496.7	5875.3	5399.1	5295.8
22.5°	6895.7	6351.5	5995.7	5972.1	6233.7	6785.9	7022.6	6515.1	5962.9	5860.9
25°	7390.2	6460.1	5906.7	5855.7	6140.9	6971.6	7594.3	7298.7	6695.5	6539.9
27.5°	7929.2	6685.1	5906.7	5857.0	6133.0	7136.5	8083.6	7992.0	7454.4	7284.2
30°	8224.9	6870.9	5991.7	5935.4	6229.9	7231.9	8345.2	8608.2	8024.7	7814.2
32.5°	8489.1	7128.6	6157.9	6051.9	6432.6	7373.2	8579.5	9131.5	8478.7	8337.4
35°	8732.5	7404.7	6386.8	6263.9	6699.5	7566.9	8838.5	9681.0	9110.6	8897.4
37.5°	9000.7	7725.2	6744.0	6639.3	7145.6	7943.7	9145.9	10403.1	9732.0	9463.8
40°	9292.5	8096.7	7331.3	7286.9	7854.7	8370.1	9534.4	11173.7	10441.1	10136.2
42.5°	9589.4	8524.5	8050.9	8124.1	8657.9	8968.0	9933.5	11766.3	11021.9	10685.7
45°	9858.9	9071.4	8986.3	9348.6	9594.6	9551.5	10229.1	12183.7	11528.2	11206.4
47.5°	10199.1	9868.0	10117.9	10676.6	10683.1	10185.9	10452.9	12525.1	11963.8	11642.0
50°	10579.7	10808.7	11579.2	12148.3	11995.3	10810.0	10714.5	12929.4	12413.9	12156.2
52.5°	11020.6	11861.8	12929.4	13561.2	13204.0	11490.2	11150.1	13366.3	13128.2	12880.9
55°	11533.5	12580.0	14275.5	14779.1	14419.4	12335.4	11812.1	13958.9	13935.4	13766.6
57.5°	12113.0	13338.8	15055.2	15736.8	15416.3	13327.1	12737.0	14517.5	14428.5	14334.3
59°	12570.8	13728.7	15399.3	16105.7	15912.1	14021.7	13358.4	14865.5	14542.4	14401.1
60°	12848.2	13992.9	15526.2	16155.4	16111.0	14435.1	13752.2	15035.6	14541.1	14344.9
62.5°	13671.1	14454.8	15477.8	15934.3	16108.3	15227.9	14907.4	15222.7	14271.6	13983.8
65°	13964.1	14301.7	14675.9	14619.6	14768.7	15187.4	15645.2	15017.3	13695.9	13286.5
67.5°	13393.8	12623.2	12755.4	12379.9	12306.6	13502.3	15345.6	14012.6	12569.6	12068.5
70°	11290.1	9670.5	9603.8	9776.5	9302.9	10931.7	13779.7	12077.7	10710.6	10142.8
72.5°	8886.8	6834.2	6271.7	6907.5	6893.1	8340.0	11447.1	8570.3	7235.9	7187.4
75°	6988.6	4758.0	4175.9	4279.3	4478.1	6037.5	9117.1	5442.3	4455.9	4060.8
77.5°	4691.4	3371.3	3145.0	3018.1	3232.6	3876.3	5768.0	2951.4	2498.8	2366.6
80°	2704.2	2449.0	2781.4	2524.9	2640.1	2442.5	2869.0	1354.0	1123.7	1216.7
82.5°	1759.5	1394.5	1486.1	1104.1	1509.7	1522.8	921.0	400.3	338.8	359.8
85°	1100.2	654.1	367.6	261.6	520.7	957.6	287.8	24.9	28.8	24.9
87.5°	285.2	108.6	45.8	68.0	83.8	74.6	66.7	4.0	1.3	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)